TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-121411-1

Job Description: Nash Rd. Wheatfield #932054

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, NY 14203

Attention: Mr. Glenn May

Approved for release.
Orlette S Johnson
Senior Project Manager
8/3/2017 10:05 AM

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Job Number: 480-121411-1

Job Description: Nash Rd. Wheatfield #932054

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Approved for release.
Orlette S Johnson
Senior Project Manager
8/3/2017 10:05 AM

Orlette S Johnson

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Job Narrative
480-121411-1

Receipt
The samples were received on 7/20/2017 5:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-368716 recovered above the upper control limit for Bromomethane and Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TP-07 (480-121411-1), TP-09 (480-121411-2), TP-15 (480-121411-3) and DUP (480-121411-4).

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 480-368757 and analytical batch 480-368716 recovered outside control limits for the following analytes: Bromomethane and Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: TP-07 (480-121411-1), TP-09 (480-121411-2), TP-15 (480-121411-3) and DUP (480-121411-4).

Method(s) 8260C: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 480-369004 and analytical batch 480-368964 exceeded control limits for the following analytes: Bromomethane and Chloroethane, note that these analytes are known poor performers when analyzed using this method. The following sample are impacted:TP-15 (480-121411-3[MS]) and TP-15 (480-121411-3[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following samples were diluted due to color and appearance: TP-07 (480-121411-1), TP-15 (480-121411-3), TP-15 (480-121411-3[MS]), TP-15 (480-121411-3[MSD]) and DUP (480-121411-4). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 368029 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8081B: All primary data for analytical batch 368232 is reported from the RTX-CLPII column.

Method(s) 8082A: All primary data for analytical batch 368358 is reported from the ZB-5 column, while all primary data for analytical batch 368775 is reported from the ZB-35 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8082A: For method 8082, the recovery of one surrogate in sample TP-15 (480-121411-3[MS]) exceeded quality control limits.The recovery of the secondary surrogate is within quality control criteria, no corrective action is required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The Continuing Calibration Blank (CCB 480-368988/18) contained Total Manganese above the reporting limit (RL). All reported samples TP-07 (480-121411-1), TP-09 (480-121411-2), TP-15 (480-121411-3), TP-15 (480-121411-3[MS]), TP-15 (480-121411-3[MSD]), (480-121411-C-3-D PDS) and (480-121411-C-3-D SD) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The Low Level Continuing Calibration Verification (CCVL 480-368988/19) contained Total Barium and Manganese outside the control limits. All reported samples TP-07 (480-121411-1), TP-09 (480-121411-2), TP-15 (480-121411-3), TP-15 (480-121411-3[MS]), TP-15 (480-121411-3[MSD]), (LCSSRM 480-368425/2-), (480-121411-C-3-D PDS) and (480-121411-C-3-D SD) associated with this CCVL were either below the laboratory's standard reporting limit for these analytes or contained these analytes at concentrations greater than 10X the values found in the CCVL; therefore, re-analysis of samples was not performed.

Method(s) 6010C: The Serial Dilution and Post Spike (480-121411-C-3-D PDS) and (480-121411-C-3-D SD) exceeded the quality control limits for Total Iron and Manganese. Sample matrix is suspected, therefore, no corrective action was necessary.

Method(s) 6010C: The Serial Dilution (480-121411-C-3-D SD) in batch 480-368425, exhibited results outside the quality control limits for Total Calcium, Chromium, Vanadium, and Zinc. However, the Post Digestion Spike was compliant so no corrective action was necessary

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121411-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-121411-1	TP-07	Solid	07/20/17 09:00	07/20/17 17:00
480-121411-2	TP-09	Solid	07/20/17 10:30	07/20/17 17:00
480-121411-3	TP-15	Solid	07/20/17 15:00	07/20/17 17:00
480-121411-4	DUP	Solid	07/20/17 00:00	07/20/17 17:00

Detection Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121411-1

Client Sample ID: TP-07 — Lab Sample ID: 480-121411-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)anthracene	190	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	370	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	280	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Pyrene	310	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
delta-BHC	0.47	J	2.1	0.38	ug/Kg	1	☼	8081B	Total/NA
Aluminum	15100		13.2	5.8	mg/Kg	1	☼	6010C	Total/NA
Antimony	6.9	J	19.8	0.53	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.2		2.6	0.53	mg/Kg	1	☼	6010C	Total/NA
Barium	160		0.66	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.62		0.26	0.037	mg/Kg	1	☼	6010C	Total/NA
Cadmium	4.0	B	0.26	0.040	mg/Kg	1	☼	6010C	Total/NA
Calcium	10400	B	66.0	4.4	mg/Kg	1	☼	6010C	Total/NA
Chromium	46.1		0.66	0.26	mg/Kg	1	☼	6010C	Total/NA
Cobalt	8.9		0.66	0.066	mg/Kg	1	☼	6010C	Total/NA
Copper	214		1.3	0.28	mg/Kg	1	☼	6010C	Total/NA
Iron	20000		13.2	4.6	mg/Kg	1	☼	6010C	Total/NA
Lead	340		1.3	0.32	mg/Kg	1	☼	6010C	Total/NA
Magnesium	5390		26.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	362	B	0.26	0.042	mg/Kg	1	☼	6010C	Total/NA
Nickel	101		6.6	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	1590		39.6	26.4	mg/Kg	1	☼	6010C	Total/NA
Silver	12.9		0.79	0.26	mg/Kg	1	☼	6010C	Total/NA
Sodium	222		185	17.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	25.8		0.66	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	349	B	2.6	0.84	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.23		0.024	0.0097	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-09 — Lab Sample ID: 480-121411-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.51	J	2.0	0.42	ug/Kg	1	☼	8081B	Total/NA
Dieldrin	1.1	J	2.0	0.48	ug/Kg	1	☼	8081B	Total/NA
gamma-Chlordane	0.83	J	2.0	0.64	ug/Kg	1	☼	8081B	Total/NA
Aluminum	5270		13.2	5.8	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.0	J	2.6	0.53	mg/Kg	1	☼	6010C	Total/NA
Barium	151		0.66	0.15	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.22	J	0.26	0.037	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.19	J B	0.26	0.040	mg/Kg	1	☼	6010C	Total/NA
Calcium	44800	B	66.1	4.4	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.4		0.66	0.26	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.4		0.66	0.066	mg/Kg	1	☼	6010C	Total/NA
Copper	7.5		1.3	0.28	mg/Kg	1	☼	6010C	Total/NA
Iron	10700		13.2	4.6	mg/Kg	1	☼	6010C	Total/NA
Lead	6.5		1.3	0.32	mg/Kg	1	☼	6010C	Total/NA
Magnesium	17000		26.4	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	392	B	0.26	0.042	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.0		6.6	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	1460		39.7	26.4	mg/Kg	1	☼	6010C	Total/NA
Sodium	180	J	185	17.2	mg/Kg	1	☼	6010C	Total/NA
Vanadium	20.3		0.66	0.15	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-09 (Continued) — Lab Sample ID: 480-121411-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	38.4	B	2.6	0.85	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.039		0.024	0.0096	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-15 — Lab Sample ID: 480-121411-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	0.58	J	2.0	0.38	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDE	1.2	J	2.0	0.41	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDT	1.1	J	2.0	0.46	ug/Kg	1	☼	8081B	Total/NA
Aluminum	8590		11.3	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.1		2.3	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	34.6		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.33		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.12	J B	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	37400	B	56.4	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	11.2		0.56	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.5		0.56	0.056	mg/Kg	1	☼	6010C	Total/NA
Copper	10.9		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	11700		11.3	3.9	mg/Kg	1	☼	6010C	Total/NA
Lead	11.7		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	11900		22.5	1.0	mg/Kg	1	☼	6010C	Total/NA
Manganese	289	B	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	12.4		5.6	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1470		33.8	22.5	mg/Kg	1	☼	6010C	Total/NA
Sodium	140	J	158	14.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.0		0.56	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	38.4	B	2.3	0.72	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.022	J	0.024	0.0098	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP — Lab Sample ID: 480-121411-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)anthracene	810	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo(a)pyrene	630	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Benzo(b)fluoranthene	750	J	1100	170	ug/Kg	5	☼	8270D	Total/NA
Benzo(g,h,i)perylene	380	J	1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo(k)fluoranthene	530	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Chrysene	890	J	1100	240	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1400		1100	110	ug/Kg	5	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	400	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	730	J	1100	160	ug/Kg	5	☼	8270D	Total/NA
Pyrene	1300		1100	130	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDE	0.56	J	2.1	0.43	ug/Kg	1	☼	8081B	Total/NA
delta-BHC	0.48	J	2.1	0.39	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	0.89	J	2.1	0.42	ug/Kg	1	☼	8081B	Total/NA
PCB-1254	0.34		0.27	0.13	mg/Kg	1	☼	8082A	Total/NA
Aluminum	11800		13.8	6.1	mg/Kg	1	☼	6010C	Total/NA
Antimony	7.5	J	20.6	0.55	mg/Kg	1	☼	6010C	Total/NA
Arsenic	7.0		2.8	0.55	mg/Kg	1	☼	6010C	Total/NA
Barium	213		0.69	0.15	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP (Continued)

Lab Sample ID: 480-121411-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.48		0.28	0.039	mg/Kg	1	☼	6010C	Total/NA
Cadmium	7.4	B	0.28	0.041	mg/Kg	1	☼	6010C	Total/NA
Calcium	30500	B	68.8	4.5	mg/Kg	1	☼	6010C	Total/NA
Chromium	38.9		0.69	0.28	mg/Kg	1	☼	6010C	Total/NA
Cobalt	7.2		0.69	0.069	mg/Kg	1	☼	6010C	Total/NA
Copper	998		1.4	0.29	mg/Kg	1	☼	6010C	Total/NA
Iron	25400		13.8	4.8	mg/Kg	1	☼	6010C	Total/NA
Lead	193		1.4	0.33	mg/Kg	1	☼	6010C	Total/NA
Magnesium	12900		27.5	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	530	B	0.28	0.044	mg/Kg	1	☼	6010C	Total/NA
Nickel	45.9		6.9	0.32	mg/Kg	1	☼	6010C	Total/NA
Potassium	1170		41.3	27.5	mg/Kg	1	☼	6010C	Total/NA
Selenium	0.78	J	5.5	0.55	mg/Kg	1	☼	6010C	Total/NA
Silver	8.9		0.83	0.28	mg/Kg	1	☼	6010C	Total/NA
Sodium	220		193	17.9	mg/Kg	1	☼	6010C	Total/NA
Vanadium	21.3		0.69	0.15	mg/Kg	1	☼	6010C	Total/NA
Zinc	435	B	2.8	0.88	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.29		0.024	0.0098	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121411-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: TP-07
Date Collected: 07/20/17 09:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-1
Matrix: Solid
Percent Solids: 79.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.3	0.46	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,1,2,2-Tetrachloroethane	ND	vs	6.3	1.0	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,1,2-Trichloroethane	ND	vs	6.3	0.82	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.3	1.4	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,1-Dichloroethane	ND	vs	6.3	0.77	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,1-Dichloroethene	ND	vs	6.3	0.77	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,2,4-Trichlorobenzene	ND	vs	6.3	0.38	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.3	3.2	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,2-Dibromoethane	ND	vs	6.3	0.81	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,2-Dichlorobenzene	ND	vs	6.3	0.49	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,2-Dichloroethane	ND	vs	6.3	0.32	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,2-Dichloropropane	ND	vs	6.3	3.2	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,3-Dichlorobenzene	ND	vs	6.3	0.32	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
1,4-Dichlorobenzene	ND	vs	6.3	0.88	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
2-Hexanone	ND	vs	32	3.2	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
2-Butanone (MEK)	ND	vs	32	2.3	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Acetone	ND	vs	32	5.3	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Benzene	ND	vs	6.3	0.31	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Bromodichloromethane	ND	vs	6.3	0.85	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Bromoform	ND	vs	6.3	3.2	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Bromomethane	ND	* vs	6.3	0.57	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Carbon disulfide	ND	vs	6.3	3.2	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Carbon tetrachloride	ND	vs	6.3	0.61	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Chlorobenzene	ND	vs	6.3	0.83	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Dibromochloromethane	ND	vs	6.3	0.81	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Chloroethane	ND	* vs	6.3	1.4	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Chloroform	ND	vs	6.3	0.39	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Chloromethane	ND	vs	6.3	0.38	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
cis-1,2-Dichloroethene	ND	vs	6.3	0.81	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
cis-1,3-Dichloropropene	ND	vs	6.3	0.91	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Cyclohexane	ND	vs	6.3	0.88	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Dichlorodifluoromethane	ND	vs	6.3	0.52	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Ethylbenzene	ND	vs	6.3	0.44	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Isopropylbenzene	ND	vs	6.3	0.95	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Methyl acetate	ND	vs	32	3.8	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Methyl tert-butyl ether	ND	vs	6.3	0.62	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Methylcyclohexane	ND	vs	6.3	0.96	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Methylene Chloride	ND	vs	6.3	2.9	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Styrene	ND	vs	6.3	0.32	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Tetrachloroethene	ND	vs	6.3	0.85	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Toluene	ND	vs	6.3	0.48	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
trans-1,2-Dichloroethene	ND	vs	6.3	0.65	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
trans-1,3-Dichloropropene	ND	vs	6.3	2.8	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Trichloroethene	ND	vs	6.3	1.4	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Trichlorofluoromethane	ND	vs	6.3	0.60	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Vinyl chloride	ND	vs	6.3	0.77	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	☼	07/26/17 08:56	07/26/17 14:06	1

Client Sample ID: TP-07

Date Collected: 07/20/17 09:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-1

Matrix: Solid
Percent Solids: 79.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 126	07/26/17 08:56	07/26/17 14:06	1
Toluene-d8 (Surr)	95		71 - 125	07/26/17 08:56	07/26/17 14:06	1
4-Bromofluorobenzene (Surr)	93		72 - 126	07/26/17 08:56	07/26/17 14:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
bis (2-chloroisopropyl) ether	ND		1100	210	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2,4,5-Trichlorophenol	ND		1100	290	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2,4,6-Trichlorophenol	ND		1100	210	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2,4-Dichlorophenol	ND		1100	110	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2,4-Dimethylphenol	ND		1100	260	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2,4-Dinitrophenol	ND		10000	4900	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2,4-Dinitrotoluene	ND		1100	220	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2,6-Dinitrotoluene	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2-Chloronaphthalene	ND		1100	180	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2-Chlorophenol	ND		1100	190	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2-Methylnaphthalene	ND		1100	210	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2-Methylphenol	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2-Nitroaniline	ND		2100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
2-Nitrophenol	ND		1100	300	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
3,3'-Dichlorobenzidine	ND		2100	1300	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
3-Nitroaniline	ND		2100	290	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
4,6-Dinitro-2-methylphenol	ND		2100	1100	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
4-Bromophenyl phenyl ether	ND		1100	150	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
4-Chloro-3-methylphenol	ND		1100	260	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
4-Chloroaniline	ND		1100	260	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
4-Chlorophenyl phenyl ether	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
4-Methylphenol	ND		2100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
4-Nitroaniline	ND		2100	560	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
4-Nitrophenol	ND		2100	740	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Acenaphthene	ND		1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Acenaphthylene	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Acetophenone	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Anthracene	ND		1100	260	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Atrazine	ND		1100	370	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Benzaldehyde	ND		1100	840	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Benzo(a)anthracene	**190**	**J**	1100	110	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Benzo(a)pyrene	ND		1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Benzo(b)fluoranthene	ND		1100	170	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Benzo(g,h,i)perylene	ND		1100	110	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Benzo(k)fluoranthene	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Bis(2-chloroethoxy)methane	ND		1100	230	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Bis(2-chloroethyl)ether	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Bis(2-ethylhexyl) phthalate	ND		1100	360	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Butyl benzyl phthalate	ND		1100	180	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Caprolactam	ND		1100	320	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Carbazole	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Chrysene	ND		1100	240	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Di-n-butyl phthalate	ND		1100	180	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5

Client Sample ID: TP-07
Date Collected: 07/20/17 09:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-1
Matrix: Solid
Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Dibenz(a,h)anthracene	ND		1100	190	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Dibenzofuran	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Diethyl phthalate	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Dimethyl phthalate	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Fluoranthene	**370**	**J**	1100	110	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Fluorene	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Hexachlorobenzene	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Hexachlorobutadiene	ND		1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Hexachlorocyclopentadiene	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Hexachloroethane	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Indeno(1,2,3-cd)pyrene	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Isophorone	ND		1100	230	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
N-Nitrosodi-n-propylamine	ND		1100	180	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
N-Nitrosodiphenylamine	ND		1100	860	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Naphthalene	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Nitrobenzene	ND		1100	120	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Pentachlorophenol	ND		2100	1100	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Phenanthrene	**280**	**J**	1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Phenol	ND		1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5
Pyrene	**310**	**J**	1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 17:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*97*		*54 - 120*	*07/21/17 14:18*	*07/24/17 17:12*	*5*
2-Fluorobiphenyl	*82*		*60 - 120*	*07/21/17 14:18*	*07/24/17 17:12*	*5*
2-Fluorophenol	*71*		*52 - 120*	*07/21/17 14:18*	*07/24/17 17:12*	*5*
Nitrobenzene-d5	*70*		*53 - 120*	*07/21/17 14:18*	*07/24/17 17:12*	*5*
p-Terphenyl-d14	*95*		*65 - 121*	*07/21/17 14:18*	*07/24/17 17:12*	*5*
Phenol-d5	*74*		*54 - 120*	*07/21/17 14:18*	*07/24/17 17:12*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
4,4'-DDE	ND		2.1	0.43	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
4,4'-DDT	ND		2.1	0.48	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Aldrin	ND		2.1	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
alpha-BHC	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
alpha-Chlordane	ND		2.1	1.0	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
beta-BHC	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
delta-BHC	**0.47**	**J**	2.1	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Dieldrin	ND		2.1	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Endosulfan I	ND		2.1	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Endosulfan II	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Endosulfan sulfate	ND		2.1	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Endrin	ND		2.1	0.41	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Endrin aldehyde	ND		2.1	0.53	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Endrin ketone	ND		2.1	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
gamma-BHC (Lindane)	ND		2.1	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
gamma-Chlordane	ND		2.1	0.66	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Heptachlor	ND		2.1	0.45	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1

Client Sample ID: TP-07

Date Collected: 07/20/17 09:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-1

Matrix: Solid
Percent Solids: 79.1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		2.1	0.53	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Methoxychlor	ND		2.1	0.42	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1
Toxaphene	ND		21	12	ug/Kg	☼	07/21/17 06:42	07/22/17 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*45 - 120*	*07/21/17 06:42*	*07/22/17 15:43*	*1*
DCB Decachlorobiphenyl	*107*		*45 - 120*	*07/21/17 06:42*	*07/22/17 15:43*	*1*
Tetrachloro-m-xylene	*75*		*30 - 124*	*07/21/17 06:42*	*07/22/17 15:43*	*1*
Tetrachloro-m-xylene	*76*		*30 - 124*	*07/21/17 06:42*	*07/22/17 15:43*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29	0.057	mg/Kg	☼	07/24/17 07:43	07/25/17 00:03	1
PCB-1221	ND		0.29	0.057	mg/Kg	☼	07/24/17 07:43	07/25/17 00:03	1
PCB-1232	ND		0.29	0.057	mg/Kg	☼	07/24/17 07:43	07/25/17 00:03	1
PCB-1242	ND		0.29	0.057	mg/Kg	☼	07/24/17 07:43	07/25/17 00:03	1
PCB-1248	ND		0.29	0.057	mg/Kg	☼	07/24/17 07:43	07/25/17 00:03	1
PCB-1254	ND		0.29	0.14	mg/Kg	☼	07/24/17 07:43	07/25/17 00:03	1
PCB-1260	ND		0.29	0.14	mg/Kg	☼	07/24/17 07:43	07/25/17 00:03	1
PCB-1262	ND		0.29	0.14	mg/Kg	☼	07/24/17 07:43	07/25/17 00:03	1
PCB-1268	ND		0.29	0.14	mg/Kg	☼	07/24/17 07:43	07/25/17 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*122*		*60 - 154*	*07/24/17 07:43*	*07/25/17 00:03*	*1*
Tetrachloro-m-xylene	*122*		*60 - 154*	*07/24/17 07:43*	*07/25/17 00:03*	*1*
DCB Decachlorobiphenyl	*122*		*65 - 174*	*07/24/17 07:43*	*07/25/17 00:03*	*1*
DCB Decachlorobiphenyl	*142*		*65 - 174*	*07/24/17 07:43*	*07/25/17 00:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**15100**		13.2	5.8	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Antimony	**6.9**	**J**	19.8	0.53	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Arsenic	**4.2**		2.6	0.53	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Barium	**160**		0.66	0.15	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Beryllium	**0.62**		0.26	0.037	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Cadmium	**4.0**	**B**	0.26	0.040	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Calcium	**10400**	**B**	66.0	4.4	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Chromium	**46.1**		0.66	0.26	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Cobalt	**8.9**		0.66	0.066	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Copper	**214**		1.3	0.28	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Iron	**20000**		13.2	4.6	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Lead	**340**		1.3	0.32	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Magnesium	**5390**		26.4	1.2	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Manganese	**362**	**B**	0.26	0.042	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Nickel	**101**		6.6	0.30	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Potassium	**1590**		39.6	26.4	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Selenium	ND		5.3	0.53	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Silver	**12.9**		0.79	0.26	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Sodium	**222**		185	17.2	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Thallium	ND		7.9	0.40	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1

Client Sample ID: TP-07

Date Collected: 07/20/17 09:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-1

Matrix: Solid
Percent Solids: 79.1

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	25.8		0.66	0.15	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1
Zinc	349	B	2.6	0.84	mg/Kg	☼	07/24/17 17:04	07/26/17 15:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.024	0.0097	mg/Kg	☼	07/24/17 12:35	07/24/17 15:09	1

Client Sample ID: TP-09

Date Collected: 07/20/17 10:30
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-2

Matrix: Solid
Percent Solids: 82.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.1	0.44	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,1,2,2-Tetrachloroethane	ND	vs	6.1	0.98	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,1,2-Trichloroethane	ND	vs	6.1	0.79	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.1	1.4	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,1-Dichloroethane	ND	vs	6.1	0.74	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,1-Dichloroethene	ND	vs	6.1	0.74	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,2,4-Trichlorobenzene	ND	vs	6.1	0.37	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.1	3.0	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,2-Dibromoethane	ND	vs	6.1	0.78	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,2-Dichlorobenzene	ND	vs	6.1	0.47	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,2-Dichloroethane	ND	vs	6.1	0.30	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,2-Dichloropropane	ND	vs	6.1	3.0	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,3-Dichlorobenzene	ND	vs	6.1	0.31	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
1,4-Dichlorobenzene	ND	vs	6.1	0.85	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Acetone	ND	vs	30	5.1	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Benzene	ND	vs	6.1	0.30	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Bromodichloromethane	ND	vs	6.1	0.81	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Bromoform	ND	vs	6.1	3.0	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Bromomethane	ND	* vs	6.1	0.55	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Carbon disulfide	ND	vs	6.1	3.0	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Carbon tetrachloride	ND	vs	6.1	0.59	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Chlorobenzene	ND	vs	6.1	0.80	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Dibromochloromethane	ND	vs	6.1	0.78	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Chloroethane	ND	* vs	6.1	1.4	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Chloroform	ND	vs	6.1	0.37	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Chloromethane	ND	vs	6.1	0.37	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
cis-1,2-Dichloroethene	ND	vs	6.1	0.78	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
cis-1,3-Dichloropropene	ND	vs	6.1	0.87	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Cyclohexane	ND	vs	6.1	0.85	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Dichlorodifluoromethane	ND	vs	6.1	0.50	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Ethylbenzene	ND	vs	6.1	0.42	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Isopropylbenzene	ND	vs	6.1	0.91	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Methyl acetate	ND	vs	30	3.7	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Methyl tert-butyl ether	ND	vs	6.1	0.60	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1

Client Sample ID: TP-09
Date Collected: 07/20/17 10:30
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-2
Matrix: Solid
Percent Solids: 82.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND	vs	6.1	0.92	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Methylene Chloride	ND	vs	6.1	2.8	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Styrene	ND	vs	6.1	0.30	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Tetrachloroethene	ND	vs	6.1	0.81	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Toluene	ND	vs	6.1	0.46	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
trans-1,2-Dichloroethene	ND	vs	6.1	0.63	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
trans-1,3-Dichloropropene	ND	vs	6.1	2.7	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Trichloroethene	ND	vs	6.1	1.3	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Trichlorofluoromethane	ND	vs	6.1	0.57	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Vinyl chloride	ND	vs	6.1	0.74	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	07/26/17 08:56	07/26/17 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 126*	*07/26/17 08:56*	*07/26/17 14:32*	*1*
Toluene-d8 (Surr)	*94*		*71 - 125*	*07/26/17 08:56*	*07/26/17 14:32*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*07/26/17 08:56*	*07/26/17 14:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2,4,5-Trichlorophenol	ND		200	55	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2,4-Dimethylphenol	ND		200	49	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2-Methylphenol	ND		200	24	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
4-Methylphenol	ND		390	24	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Acenaphthene	ND		200	30	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Acenaphthylene	ND		200	26	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Acetophenone	ND		200	27	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Anthracene	ND		200	50	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Atrazine	ND		200	70	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Benzaldehyde	ND		200	160	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1

Client Sample ID: TP-09
Date Collected: 07/20/17 10:30
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-2
Matrix: Solid
Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(a)anthracene	ND		200	20	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Benzo(a)pyrene	ND		200	30	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Benzo(b)fluoranthene	ND		200	32	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Benzo(g,h,i)perylene	ND		200	21	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Benzo(k)fluoranthene	ND		200	26	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Caprolactam	ND		200	60	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Carbazole	ND		200	24	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Chrysene	ND		200	45	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Dibenz(a,h)anthracene	ND		200	36	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Dibenzofuran	ND		200	24	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Fluoranthene	ND		200	21	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Fluorene	ND		200	24	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Hexachloroethane	ND		200	26	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Indeno(1,2,3-cd)pyrene	ND		200	25	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Isophorone	ND		200	43	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Naphthalene	ND		200	26	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Nitrobenzene	ND		200	23	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Phenanthrene	ND		200	30	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Phenol	ND		200	31	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1
Pyrene	ND		200	24	ug/Kg	☼	07/21/17 14:18	07/24/17 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*54 - 120*	*07/21/17 14:18*	*07/24/17 17:38*	*1*
2-Fluorobiphenyl	*100*		*60 - 120*	*07/21/17 14:18*	*07/24/17 17:38*	*1*
2-Fluorophenol	*90*		*52 - 120*	*07/21/17 14:18*	*07/24/17 17:38*	*1*
Nitrobenzene-d5	*99*		*53 - 120*	*07/21/17 14:18*	*07/24/17 17:38*	*1*
p-Terphenyl-d14	*110*		*65 - 121*	*07/21/17 14:18*	*07/24/17 17:38*	*1*
Phenol-d5	*96*		*54 - 120*	*07/21/17 14:18*	*07/24/17 17:38*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
4,4'-DDE	**0.51**	**J**	2.0	0.42	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
4,4'-DDT	ND		2.0	0.47	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1

Client Sample ID: TP-09
Date Collected: 07/20/17 10:30
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-2
Matrix: Solid
Percent Solids: 82.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		2.0	1.0	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Dieldrin	**1.1**	**J**	2.0	0.48	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Endrin	ND		2.0	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
gamma-Chlordane	**0.83**	**J**	2.0	0.64	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Methoxychlor	ND		2.0	0.41	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1
Toxaphene	ND		20	12	ug/Kg	☼	07/21/17 06:42	07/22/17 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*45 - 120*	*07/21/17 06:42*	*07/22/17 16:03*	*1*
DCB Decachlorobiphenyl	*105*		*45 - 120*	*07/21/17 06:42*	*07/22/17 16:03*	*1*
Tetrachloro-m-xylene	*80*		*30 - 124*	*07/21/17 06:42*	*07/22/17 16:03*	*1*
Tetrachloro-m-xylene	*77*		*30 - 124*	*07/21/17 06:42*	*07/22/17 16:03*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	07/24/17 07:43	07/25/17 00:19	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	07/24/17 07:43	07/25/17 00:19	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	07/24/17 07:43	07/25/17 00:19	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	07/24/17 07:43	07/25/17 00:19	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	07/24/17 07:43	07/25/17 00:19	1
PCB-1254	ND		0.27	0.13	mg/Kg	☼	07/24/17 07:43	07/25/17 00:19	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	07/24/17 07:43	07/25/17 00:19	1
PCB-1262	ND		0.27	0.13	mg/Kg	☼	07/24/17 07:43	07/25/17 00:19	1
PCB-1268	ND		0.27	0.13	mg/Kg	☼	07/24/17 07:43	07/25/17 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*117*		*60 - 154*	*07/24/17 07:43*	*07/25/17 00:19*	*1*
Tetrachloro-m-xylene	*140*		*60 - 154*	*07/24/17 07:43*	*07/25/17 00:19*	*1*
DCB Decachlorobiphenyl	*110*		*65 - 174*	*07/24/17 07:43*	*07/25/17 00:19*	*1*
DCB Decachlorobiphenyl	*136*		*65 - 174*	*07/24/17 07:43*	*07/25/17 00:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5270**		13.2	5.8	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Antimony	ND		19.8	0.53	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Arsenic	**2.0**	**J**	2.6	0.53	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Barium	**151**		0.66	0.15	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Beryllium	**0.22**	**J**	0.26	0.037	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Cadmium	**0.19**	**J B**	0.26	0.040	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Calcium	**44800**	**B**	66.1	4.4	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1

Client Sample ID: TP-09

Date Collected: 07/20/17 10:30
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-2

Matrix: Solid
Percent Solids: 82.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	8.4		0.66	0.26	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Cobalt	3.4		0.66	0.066	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Copper	7.5		1.3	0.28	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Iron	10700		13.2	4.6	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Lead	6.5		1.3	0.32	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Magnesium	17000		26.4	1.2	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Manganese	392	B	0.26	0.042	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Nickel	8.0		6.6	0.30	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Potassium	1460		39.7	26.4	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Selenium	ND		5.3	0.53	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Silver	ND		0.79	0.26	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Sodium	180	J	185	17.2	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Thallium	ND		7.9	0.40	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Vanadium	20.3		0.66	0.15	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1
Zinc	38.4	B	2.6	0.85	mg/Kg	☼	07/24/17 17:04	07/26/17 15:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.024	0.0096	mg/Kg	☼	07/24/17 12:35	07/24/17 15:11	1

Client Sample ID: TP-15

Date Collected: 07/20/17 15:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-3

Matrix: Solid
Percent Solids: 83.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9	0.43	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.95	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,1,2-Trichloroethane	ND	vs	5.9	0.77	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.3	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,1-Dichloroethane	ND	vs	5.9	0.72	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,1-Dichloroethene	ND	vs	5.9	0.72	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	2.9	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,2-Dibromoethane	ND	vs	5.9	0.76	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,2-Dichloroethane	ND	vs	5.9	0.30	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,2-Dichloropropane	ND	vs	5.9	2.9	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,3-Dichlorobenzene	ND	vs	5.9	0.30	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
1,4-Dichlorobenzene	ND	vs	5.9	0.82	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
2-Butanone (MEK)	ND	vs F1	29	2.2	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Acetone	ND	vs	29	5.0	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Benzene	ND	vs	5.9	0.29	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Bromodichloromethane	ND	vs	5.9	0.79	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Bromoform	ND	vs	5.9	2.9	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Bromomethane	ND	vs F1 *	5.9	0.53	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Carbon disulfide	ND	vs	5.9	2.9	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Carbon tetrachloride	ND	vs	5.9	0.57	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1

Client Sample ID: TP-15
Date Collected: 07/20/17 15:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-3
Matrix: Solid
Percent Solids: 83.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	vs	5.9	0.78	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Dibromochloromethane	ND	vs	5.9	0.75	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Chloroethane	ND	vs F1 *	5.9	1.3	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Chloroform	ND	vs	5.9	0.36	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Chloromethane	ND	vs	5.9	0.36	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
cis-1,2-Dichloroethene	ND	vs	5.9	0.75	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.85	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Cyclohexane	ND	vs	5.9	0.82	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Dichlorodifluoromethane	ND	vs	5.9	0.49	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Ethylbenzene	ND	vs	5.9	0.41	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Isopropylbenzene	ND	vs	5.9	0.89	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Methyl acetate	ND	vs	29	3.6	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Methyl tert-butyl ether	ND	vs	5.9	0.58	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Methylcyclohexane	ND	vs	5.9	0.89	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Methylene Chloride	ND	vs	5.9	2.7	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Styrene	ND	vs	5.9	0.29	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Tetrachloroethene	ND	vs	5.9	0.79	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Toluene	ND	vs	5.9	0.45	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.61	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Trichloroethene	ND	vs	5.9	1.3	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Trichlorofluoromethane	ND	vs	5.9	0.56	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Vinyl chloride	ND	vs	5.9	0.72	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1
Xylenes, Total	ND	vs	12	0.99	ug/Kg	☼	07/26/17 08:56	07/26/17 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*	*07/26/17 08:56*	*07/26/17 14:58*	*1*
Toluene-d8 (Surr)	*94*		*71 - 125*	*07/26/17 08:56*	*07/26/17 14:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*72 - 126*	*07/26/17 08:56*	*07/26/17 14:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1000	150	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
bis (2-chloroisopropyl) ether	ND		1000	200	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2,4,5-Trichlorophenol	ND		1000	270	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2,4,6-Trichlorophenol	ND		1000	200	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2,4-Dichlorophenol	ND		1000	110	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2,4-Dimethylphenol	ND		1000	240	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2,4-Dinitrophenol	ND		9900	4700	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2,4-Dinitrotoluene	ND		1000	210	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2,6-Dinitrotoluene	ND		1000	120	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2-Chloronaphthalene	ND		1000	170	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2-Chlorophenol	ND		1000	180	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2-Methylnaphthalene	ND		1000	200	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2-Methylphenol	ND		1000	120	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2-Nitroaniline	ND		2000	150	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
2-Nitrophenol	ND		1000	290	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
3,3'-Dichlorobenzidine	ND		2000	1200	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
3-Nitroaniline	ND		2000	280	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
4,6-Dinitro-2-methylphenol	ND		2000	1000	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5

Client Sample ID: TP-15
Date Collected: 07/20/17 15:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-3
Matrix: Solid
Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		1000	140	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
4-Chloro-3-methylphenol	ND		1000	250	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
4-Chloroaniline	ND		1000	250	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
4-Chlorophenyl phenyl ether	ND		1000	130	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
4-Methylphenol	ND		2000	120	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
4-Nitroaniline	ND		2000	530	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
4-Nitrophenol	ND		2000	710	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Acenaphthene	ND		1000	150	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Acenaphthylene	ND		1000	130	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Acetophenone	ND		1000	140	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Anthracene	ND		1000	250	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Atrazine	ND		1000	350	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Benzaldehyde	ND		1000	800	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Benzo(a)anthracene	ND		1000	100	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Benzo(a)pyrene	ND		1000	150	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Benzo(b)fluoranthene	ND		1000	160	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Benzo(g,h,i)perylene	ND		1000	110	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Benzo(k)fluoranthene	ND		1000	130	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Bis(2-chloroethoxy)methane	ND		1000	210	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Bis(2-chloroethyl)ether	ND		1000	130	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Bis(2-ethylhexyl) phthalate	ND		1000	350	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Butyl benzyl phthalate	ND		1000	170	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Caprolactam	ND		1000	300	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Carbazole	ND		1000	120	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Chrysene	ND		1000	230	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Di-n-butyl phthalate	ND		1000	170	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Di-n-octyl phthalate	ND		1000	120	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Dibenz(a,h)anthracene	ND		1000	180	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Dibenzofuran	ND		1000	120	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Diethyl phthalate	ND		1000	130	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Dimethyl phthalate	ND		1000	120	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Fluoranthene	ND		1000	110	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Fluorene	ND		1000	120	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Hexachlorobenzene	ND		1000	140	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Hexachlorobutadiene	ND		1000	150	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Hexachlorocyclopentadiene	ND		1000	140	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Hexachloroethane	ND		1000	130	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Indeno(1,2,3-cd)pyrene	ND		1000	130	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Isophorone	ND		1000	210	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
N-Nitrosodi-n-propylamine	ND		1000	170	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
N-Nitrosodiphenylamine	ND		1000	820	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Naphthalene	ND		1000	130	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Nitrobenzene	ND		1000	110	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Pentachlorophenol	ND		2000	1000	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Phenanthrene	ND		1000	150	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Phenol	ND		1000	150	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5
Pyrene	ND		1000	120	ug/Kg	☼	07/21/17 14:18	07/24/17 16:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*54 - 120*	*07/21/17 14:18*	*07/24/17 16:20*	*5*

Client Sample ID: TP-15
Date Collected: 07/20/17 15:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-3
Matrix: Solid
Percent Solids: 83.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*60 - 120*	*07/21/17 14:18*	*07/24/17 16:20*	*5*
2-Fluorophenol	*74*		*52 - 120*	*07/21/17 14:18*	*07/24/17 16:20*	*5*
Nitrobenzene-d5	*78*		*53 - 120*	*07/21/17 14:18*	*07/24/17 16:20*	*5*
p-Terphenyl-d14	*94*		*65 - 121*	*07/21/17 14:18*	*07/24/17 16:20*	*5*
Phenol-d5	*75*		*54 - 120*	*07/21/17 14:18*	*07/24/17 16:20*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.58**	**J**	2.0	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
4,4'-DDE	**1.2**	**J**	2.0	0.41	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
4,4'-DDT	**1.1**	**J**	2.0	0.46	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Aldrin	ND		2.0	0.48	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
alpha-BHC	ND		2.0	0.35	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
alpha-Chlordane	ND		2.0	0.97	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
beta-BHC	ND		2.0	0.35	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
delta-BHC	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Endosulfan II	ND		2.0	0.35	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Endrin	ND		2.0	0.39	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Endrin ketone	ND		2.0	0.48	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
gamma-Chlordane	ND	F2 F1	2.0	0.62	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Heptachlor	ND		2.0	0.42	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Heptachlor epoxide	ND	F2	2.0	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Methoxychlor	ND	F2 F1	2.0	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1
Toxaphene	ND		20	11	ug/Kg	☼	07/21/17 06:42	07/22/17 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*94*		*45 - 120*	*07/21/17 06:42*	*07/22/17 15:23*	*1*
DCB Decachlorobiphenyl	*107*		*45 - 120*	*07/21/17 06:42*	*07/22/17 15:23*	*1*
Tetrachloro-m-xylene	*75*		*30 - 124*	*07/21/17 06:42*	*07/22/17 15:23*	*1*
Tetrachloro-m-xylene	*78*		*30 - 124*	*07/21/17 06:42*	*07/22/17 15:23*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.050	mg/Kg	☼	07/24/17 07:43	07/24/17 23:48	1
PCB-1221	ND		0.25	0.050	mg/Kg	☼	07/24/17 07:43	07/24/17 23:48	1
PCB-1232	ND		0.25	0.050	mg/Kg	☼	07/24/17 07:43	07/24/17 23:48	1
PCB-1242	ND		0.25	0.050	mg/Kg	☼	07/24/17 07:43	07/24/17 23:48	1
PCB-1248	ND		0.25	0.050	mg/Kg	☼	07/24/17 07:43	07/24/17 23:48	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	07/24/17 07:43	07/24/17 23:48	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	07/24/17 07:43	07/24/17 23:48	1
PCB-1262	ND		0.25	0.12	mg/Kg	☼	07/24/17 07:43	07/24/17 23:48	1
PCB-1268	ND		0.25	0.12	mg/Kg	☼	07/24/17 07:43	07/24/17 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*133*		*60 - 154*	*07/24/17 07:43*	*07/24/17 23:48*	*1*

Client Sample ID: TP-15

Date Collected: 07/20/17 15:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-3

Matrix: Solid
Percent Solids: 83.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*125*		*60 - 154*	*07/24/17 07:43*	*07/24/17 23:48*	*1*
DCB Decachlorobiphenyl	*128*		*65 - 174*	*07/24/17 07:43*	*07/24/17 23:48*	*1*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*07/24/17 07:43*	*07/24/17 23:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8590**		11.3	5.0	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Antimony	ND		16.9	0.45	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Arsenic	**3.1**		2.3	0.45	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Barium	**34.6**		0.56	0.12	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Beryllium	**0.33**		0.23	0.032	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Cadmium	**0.12**	**J B**	0.23	0.034	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Calcium	**37400**	**B**	56.4	3.7	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Chromium	**11.2**		0.56	0.23	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Cobalt	**4.5**		0.56	0.056	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Copper	**10.9**		1.1	0.24	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Iron	**11700**		11.3	3.9	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Lead	**11.7**		1.1	0.27	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Magnesium	**11900**		22.5	1.0	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Manganese	**289**	**B**	0.23	0.036	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Nickel	**12.4**		5.6	0.26	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Potassium	**1470**		33.8	22.5	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Selenium	ND		4.5	0.45	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Silver	ND		0.68	0.23	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Sodium	**140**	**J**	158	14.7	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Thallium	ND		6.8	0.34	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Vanadium	**21.0**		0.56	0.12	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1
Zinc	**38.4**	**B**	2.3	0.72	mg/Kg	☼	07/24/17 17:04	07/26/17 15:49	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**	**J**	0.024	0.0098	mg/Kg	☼	07/24/17 12:35	07/24/17 15:12	1

Client Sample ID: DUP

Date Collected: 07/20/17 00:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-4

Matrix: Solid
Percent Solids: 78.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.3	0.46	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,1,2,2-Tetrachloroethane	ND	vs	6.3	1.0	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,1,2-Trichloroethane	ND	vs	6.3	0.82	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.3	1.4	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,1-Dichloroethane	ND	vs	6.3	0.77	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,1-Dichloroethene	ND	vs	6.3	0.78	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,2,4-Trichlorobenzene	ND	vs	6.3	0.39	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.3	3.2	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,2-Dibromoethane	ND	vs	6.3	0.81	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,2-Dichlorobenzene	ND	vs	6.3	0.50	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,2-Dichloroethane	ND	vs	6.3	0.32	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1

Client Sample ID: DUP

Date Collected: 07/20/17 00:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-4

Matrix: Solid
Percent Solids: 78.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	vs	6.3	3.2	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,3-Dichlorobenzene	ND	vs	6.3	0.33	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
1,4-Dichlorobenzene	ND	vs	6.3	0.89	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
2-Hexanone	ND	vs	32	3.2	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
2-Butanone (MEK)	ND	vs	32	2.3	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Acetone	ND	vs	32	5.3	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Benzene	ND	vs	6.3	0.31	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Bromodichloromethane	ND	vs	6.3	0.85	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Bromoform	ND	vs	6.3	3.2	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Bromomethane	ND	* vs	6.3	0.57	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Carbon disulfide	ND	vs	6.3	3.2	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Carbon tetrachloride	ND	vs	6.3	0.61	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Chlorobenzene	ND	vs	6.3	0.84	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Dibromochloromethane	ND	vs	6.3	0.81	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Chloroethane	ND	* vs	6.3	1.4	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Chloroform	ND	vs	6.3	0.39	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Chloromethane	ND	vs	6.3	0.38	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
cis-1,2-Dichloroethene	ND	vs	6.3	0.81	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
cis-1,3-Dichloropropene	ND	vs	6.3	0.91	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Cyclohexane	ND	vs	6.3	0.89	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Dichlorodifluoromethane	ND	vs	6.3	0.52	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Ethylbenzene	ND	vs	6.3	0.44	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Isopropylbenzene	ND	vs	6.3	0.96	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Methyl acetate	ND	vs	32	3.8	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Methyl tert-butyl ether	ND	vs	6.3	0.62	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Methylcyclohexane	ND	vs	6.3	0.96	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Methylene Chloride	ND	vs	6.3	2.9	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Styrene	ND	vs	6.3	0.32	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Tetrachloroethene	ND	vs	6.3	0.85	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Toluene	ND	vs	6.3	0.48	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
trans-1,2-Dichloroethene	ND	vs	6.3	0.65	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
trans-1,3-Dichloropropene	ND	vs	6.3	2.8	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Trichloroethene	ND	vs	6.3	1.4	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Trichlorofluoromethane	ND	vs	6.3	0.60	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Vinyl chloride	ND	vs	6.3	0.77	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	☼	07/26/17 08:56	07/26/17 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*	*07/26/17 08:56*	*07/26/17 15:23*	*1*
Toluene-d8 (Surr)	*94*		*71 - 125*	*07/26/17 08:56*	*07/26/17 15:23*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*07/26/17 08:56*	*07/26/17 15:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
bis (2-chloroisopropyl) ether	ND		1100	210	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2,4,5-Trichlorophenol	ND		1100	290	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2,4,6-Trichlorophenol	ND		1100	210	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2,4-Dichlorophenol	ND		1100	110	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5

Client Sample ID: DUP

Date Collected: 07/20/17 00:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-4

Matrix: Solid
Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		1100	260	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2,4-Dinitrophenol	ND		10000	4900	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2,4-Dinitrotoluene	ND		1100	220	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2,6-Dinitrotoluene	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2-Chloronaphthalene	ND		1100	180	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2-Chlorophenol	ND		1100	190	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2-Methylnaphthalene	ND		1100	210	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2-Methylphenol	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2-Nitroaniline	ND		2100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
2-Nitrophenol	ND		1100	300	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
3,3'-Dichlorobenzidine	ND		2100	1300	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
3-Nitroaniline	ND		2100	290	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
4,6-Dinitro-2-methylphenol	ND		2100	1100	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
4-Bromophenyl phenyl ether	ND		1100	150	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
4-Chloro-3-methylphenol	ND		1100	260	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
4-Chloroaniline	ND		1100	260	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
4-Chlorophenyl phenyl ether	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
4-Methylphenol	ND		2100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
4-Nitroaniline	ND		2100	560	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
4-Nitrophenol	ND		2100	750	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Acenaphthene	ND		1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Acenaphthylene	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Acetophenone	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Anthracene	ND		1100	260	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Atrazine	ND		1100	370	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Benzaldehyde	ND		1100	850	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Benzo(a)anthracene	**810**	**J**	1100	110	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Benzo(a)pyrene	**630**	**J**	1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Benzo(b)fluoranthene	**750**	**J**	1100	170	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Benzo(g,h,i)perylene	**380**	**J**	1100	110	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Benzo(k)fluoranthene	**530**	**J**	1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Bis(2-chloroethoxy)methane	ND		1100	230	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Bis(2-chloroethyl)ether	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Bis(2-ethylhexyl) phthalate	ND		1100	360	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Butyl benzyl phthalate	ND		1100	180	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Caprolactam	ND		1100	320	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Carbazole	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Chrysene	**890**	**J**	1100	240	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Di-n-butyl phthalate	ND		1100	180	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Di-n-octyl phthalate	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Dibenz(a,h)anthracene	ND		1100	190	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Dibenzofuran	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Diethyl phthalate	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Dimethyl phthalate	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Fluoranthene	**1400**		1100	110	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Fluorene	ND		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Hexachlorobenzene	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Hexachlorobutadiene	ND		1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Hexachlorocyclopentadiene	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5

Client Sample ID: DUP

Date Collected: 07/20/17 00:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-4

Matrix: Solid
Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Indeno(1,2,3-cd)pyrene	**400**	**J**	1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Isophorone	ND		1100	230	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
N-Nitrosodi-n-propylamine	ND		1100	180	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
N-Nitrosodiphenylamine	ND		1100	870	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Naphthalene	ND		1100	140	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Nitrobenzene	ND		1100	120	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Pentachlorophenol	ND		2100	1100	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Phenanthrene	**730**	**J**	1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Phenol	ND		1100	160	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5
Pyrene	**1300**		1100	130	ug/Kg	☼	07/21/17 14:18	07/24/17 18:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*99*		*54 - 120*	*07/21/17 14:18*	*07/24/17 18:04*	*5*
2-Fluorobiphenyl	*92*		*60 - 120*	*07/21/17 14:18*	*07/24/17 18:04*	*5*
2-Fluorophenol	*72*		*52 - 120*	*07/21/17 14:18*	*07/24/17 18:04*	*5*
Nitrobenzene-d5	*84*		*53 - 120*	*07/21/17 14:18*	*07/24/17 18:04*	*5*
p-Terphenyl-d14	*95*		*65 - 121*	*07/21/17 14:18*	*07/24/17 18:04*	*5*
Phenol-d5	*76*		*54 - 120*	*07/21/17 14:18*	*07/24/17 18:04*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.1	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
4,4'-DDE	**0.56**	**J**	2.1	0.43	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
4,4'-DDT	ND		2.1	0.48	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Aldrin	ND		2.1	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
alpha-BHC	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
alpha-Chlordane	ND		2.1	1.0	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
beta-BHC	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
delta-BHC	**0.48**	**J**	2.1	0.39	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Dieldrin	ND		2.1	0.50	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Endosulfan I	ND		2.1	0.40	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Endosulfan II	ND		2.1	0.37	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Endosulfan sulfate	ND		2.1	0.39	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Endrin	ND		2.1	0.41	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Endrin aldehyde	ND		2.1	0.53	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Endrin ketone	ND		2.1	0.51	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
gamma-BHC (Lindane)	ND		2.1	0.38	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
gamma-Chlordane	ND		2.1	0.66	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Heptachlor	ND		2.1	0.45	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Heptachlor epoxide	ND		2.1	0.53	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Methoxychlor	**0.89**	**J**	2.1	0.42	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1
Toxaphene	ND		21	12	ug/Kg	☼	07/21/17 06:42	07/22/17 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*45 - 120*	*07/21/17 06:42*	*07/22/17 16:22*	*1*
DCB Decachlorobiphenyl	*117*		*45 - 120*	*07/21/17 06:42*	*07/22/17 16:22*	*1*
Tetrachloro-m-xylene	*84*		*30 - 124*	*07/21/17 06:42*	*07/22/17 16:22*	*1*
Tetrachloro-m-xylene	*85*		*30 - 124*	*07/21/17 06:42*	*07/22/17 16:22*	*1*

Client Sample ID: DUP

Date Collected: 07/20/17 00:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-4

Matrix: Solid
Percent Solids: 78.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.053	mg/Kg	☼	07/25/17 14:16	07/26/17 18:24	1
PCB-1221	ND		0.27	0.053	mg/Kg	☼	07/25/17 14:16	07/26/17 18:24	1
PCB-1232	ND		0.27	0.053	mg/Kg	☼	07/25/17 14:16	07/26/17 18:24	1
PCB-1242	ND		0.27	0.053	mg/Kg	☼	07/25/17 14:16	07/26/17 18:24	1
PCB-1248	ND		0.27	0.053	mg/Kg	☼	07/25/17 14:16	07/26/17 18:24	1
PCB-1254	**0.34**		0.27	0.13	mg/Kg	☼	07/25/17 14:16	07/26/17 18:24	1
PCB-1260	ND		0.27	0.13	mg/Kg	☼	07/25/17 14:16	07/26/17 18:24	1
PCB-1262	ND		0.27	0.13	mg/Kg	☼	07/25/17 14:16	07/26/17 18:24	1
PCB-1268	ND		0.27	0.13	mg/Kg	☼	07/25/17 14:16	07/26/17 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*136*		*60 - 154*	*07/25/17 14:16*	*07/26/17 18:24*	*1*
Tetrachloro-m-xylene	*117*		*60 - 154*	*07/25/17 14:16*	*07/26/17 18:24*	*1*
DCB Decachlorobiphenyl	*126*		*65 - 174*	*07/25/17 14:16*	*07/26/17 18:24*	*1*
DCB Decachlorobiphenyl	*94*		*65 - 174*	*07/25/17 14:16*	*07/26/17 18:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11800**		13.8	6.1	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Antimony	**7.5**	**J**	20.6	0.55	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Arsenic	**7.0**		2.8	0.55	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Barium	**213**		0.69	0.15	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Beryllium	**0.48**		0.28	0.039	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Cadmium	**7.4**	**B**	0.28	0.041	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Calcium	**30500**	**B**	68.8	4.5	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Chromium	**38.9**		0.69	0.28	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Cobalt	**7.2**		0.69	0.069	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Copper	**998**		1.4	0.29	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Iron	**25400**		13.8	4.8	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Lead	**193**		1.4	0.33	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Magnesium	**12900**		27.5	1.3	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Manganese	**530**	**B**	0.28	0.044	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Nickel	**45.9**		6.9	0.32	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Potassium	**1170**		41.3	27.5	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Selenium	**0.78**	**J**	5.5	0.55	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Silver	**8.9**		0.83	0.28	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Sodium	**220**		193	17.9	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Thallium	ND		8.3	0.41	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Vanadium	**21.3**		0.69	0.15	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1
Zinc	**435**	**B**	2.8	0.88	mg/Kg	☼	07/24/17 17:04	07/26/17 16:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.29**		0.024	0.0098	mg/Kg	☼	07/24/17 12:35	07/24/17 15:16	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121411-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(64-126)	(71-125)	(72-126)
480-121411-1	TP-07	98	95	93
480-121411-2	TP-09	95	94	95
480-121411-3	TP-15	96	94	92
480-121411-3 MS	TP-15	75	94	99
480-121411-3 MSD	TP-15	77	93	102
480-121411-4	DUP	96	94	93
LCS 480-368757/1-A	Lab Control Sample	100	98	102
LCS 480-369004/1-A	Lab Control Sample	91	95	104
MB 480-368757/2-A	Method Blank	102	94	95
MB 480-369004/2-A	Method Blank	91	91	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
480-121411-1	TP-07	97	82	71	70	95	74
480-121411-2	TP-09	93	100	90	99	110	96
480-121411-3	TP-15	84	86	74	78	94	75
480-121411-3 MS	TP-15	94	83	66	81	92	78
480-121411-3 MSD	TP-15	97	89	71	82	95	85
480-121411-4	DUP	99	92	72	84	95	76
LCS 480-368148/2-A	Lab Control Sample	95	88	86	88	97	89
MB 480-368148/1-A	Method Blank	77	82	81	83	101	79

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-121411-1	TP-07	91	107	75	76
480-121411-2	TP-09	91	105	80	77
480-121411-3	TP-15	94	107	75	78
480-121411-3 MS	TP-15	95	109	80	77
480-121411-3 MSD	TP-15	99	112	91	86

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121411-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-121411-4	DUP	102	117	84	85
LCS 480-368029/2-A	Lab Control Sample	92	100	71	57
MB 480-368029/1-A	Method Blank	96	101	70	59

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-121411-1	TP-07	122	122	122	142
480-121411-2	TP-09	117	140	110	136
480-121411-3	TP-15	133	125	128	135
480-121411-3 MS	TP-15	158 X	159 X	159	177 X
480-121411-3 MSD	TP-15	132	131	131	147
480-121411-4	DUP	136	117	126	94
LCS 480-368288/2-A	Lab Control Sample	153	147	154	162
LCS 480-368612/2-A	Lab Control Sample	170 X	136	186 X	144
MB 480-368288/1-A	Method Blank	132	159 X	116	133
MB 480-368612/1-A	Method Blank	159 X	136	157	135

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-368757/2-A
Matrix: Solid
Analysis Batch: 368716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,2,4-Trichlorobenzene	0.423	J	5.0	0.30	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
2-Hexanone	ND		25	2.5	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Acetone	5.58	J	25	4.2	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Benzene	ND		5.0	0.25	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Bromoform	ND		5.0	2.5	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Bromomethane	ND		5.0	0.45	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Chloroethane	ND		5.0	1.1	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Chloroform	ND		5.0	0.31	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Chloromethane	ND		5.0	0.30	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Cyclohexane	ND		5.0	0.70	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Methyl acetate	ND		25	3.0	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Styrene	ND		5.0	0.25	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Toluene	ND		5.0	0.38	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Trichloroethene	ND		5.0	1.1	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		07/26/17 08:56	07/26/17 11:23	1
Xylenes, Total	ND		10	0.84	ug/Kg		07/26/17 08:56	07/26/17 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	07/26/17 08:56	07/26/17 11:23	1
Toluene-d8 (Surr)	94		71 - 125	07/26/17 08:56	07/26/17 11:23	1
4-Bromofluorobenzene (Surr)	95		72 - 126	07/26/17 08:56	07/26/17 11:23	1

Lab Sample ID: LCS 480-368757/1-A
Matrix: Solid
Analysis Batch: 368716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	43.7		ug/Kg		87	77 - 121
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/Kg		105	80 - 120
1,1,2-Trichloroethane	50.0	50.7		ug/Kg		101	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	35.0		ug/Kg		70	60 - 140
1,1-Dichloroethane	50.0	46.7		ug/Kg		93	73 - 126
1,1-Dichloroethene	50.0	39.8		ug/Kg		80	59 - 125
1,2,4-Trichlorobenzene	50.0	46.0		ug/Kg		92	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	57.0		ug/Kg		114	63 - 124
1,2-Dibromoethane	50.0	50.1		ug/Kg		100	78 - 120
1,2-Dichlorobenzene	50.0	47.6		ug/Kg		95	75 - 120
1,2-Dichloroethane	50.0	49.6		ug/Kg		99	77 - 122
1,2-Dichloropropane	50.0	46.7		ug/Kg		93	75 - 124
1,3-Dichlorobenzene	50.0	47.1		ug/Kg		94	74 - 120
1,4-Dichlorobenzene	50.0	47.2		ug/Kg		94	73 - 120
2-Hexanone	250	277		ug/Kg		111	59 - 130
2-Butanone (MEK)	250	280		ug/Kg		112	70 - 134
4-Methyl-2-pentanone (MIBK)	250	269		ug/Kg		108	65 - 133
Acetone	250	269		ug/Kg		108	61 - 137
Benzene	50.0	45.5		ug/Kg		91	79 - 127
Bromodichloromethane	50.0	52.7		ug/Kg		105	80 - 122
Bromoform	50.0	49.2		ug/Kg		98	68 - 126
Bromomethane	50.0	77.9	*	ug/Kg		156	37 - 149
Carbon disulfide	50.0	36.8		ug/Kg		74	64 - 131
Carbon tetrachloride	50.0	46.1		ug/Kg		92	75 - 135
Chlorobenzene	50.0	46.3		ug/Kg		93	76 - 124
Dibromochloromethane	50.0	50.0		ug/Kg		100	76 - 125
Chloroethane	50.0	72.9	*	ug/Kg		146	69 - 135
Chloroform	50.0	47.2		ug/Kg		94	80 - 120
Chloromethane	50.0	48.4		ug/Kg		97	63 - 127
cis-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	81 - 120
cis-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	80 - 120
Cyclohexane	50.0	35.6		ug/Kg		71	65 - 120
Dichlorodifluoromethane	50.0	37.1		ug/Kg		74	57 - 142
Ethylbenzene	50.0	45.7		ug/Kg		91	80 - 120
Isopropylbenzene	50.0	44.2		ug/Kg		88	72 - 120
Methyl acetate	250	262		ug/Kg		105	55 - 136
Methyl tert-butyl ether	50.0	51.4		ug/Kg		103	63 - 125
Methylcyclohexane	50.0	34.5		ug/Kg		69	60 - 140
Methylene Chloride	50.0	50.9		ug/Kg		102	61 - 127
Styrene	50.0	46.3		ug/Kg		93	80 - 120
Tetrachloroethene	50.0	40.4		ug/Kg		81	74 - 122
Toluene	50.0	44.9		ug/Kg		90	74 - 128
trans-1,2-Dichloroethene	50.0	44.2		ug/Kg		88	78 - 126
trans-1,3-Dichloropropene	50.0	52.2		ug/Kg		104	73 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-368757/1-A
Matrix: Solid
Analysis Batch: 368716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	43.7		ug/Kg		87	77 - 129
Trichlorofluoromethane	50.0	41.1		ug/Kg		82	65 - 146
Vinyl chloride	50.0	44.3		ug/Kg		89	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*
Toluene-d8 (Surr)	*98*		*71 - 125*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*

Lab Sample ID: MB 480-369004/2-A
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2,4-Trichlorobenzene	0.438	J	5.0	0.30	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
2-Hexanone	ND		25	2.5	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Acetone	4.42	J	25	4.2	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Benzene	ND		5.0	0.25	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Bromoform	ND		5.0	2.5	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Bromomethane	ND		5.0	0.45	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Chloroethane	ND		5.0	1.1	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Chloroform	ND		5.0	0.31	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Chloromethane	ND		5.0	0.30	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Cyclohexane	ND		5.0	0.70	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		07/27/17 09:57	07/27/17 11:47	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-369004/2-A
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.75	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Methyl acetate	ND		25	3.0	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Styrene	ND		5.0	0.25	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Toluene	ND		5.0	0.38	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Trichloroethene	ND		5.0	1.1	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Xylenes, Total	ND		10	0.84	ug/Kg		07/27/17 09:57	07/27/17 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 126*	*07/27/17 09:57*	*07/27/17 11:47*	*1*
Toluene-d8 (Surr)	*91*		*71 - 125*	*07/27/17 09:57*	*07/27/17 11:47*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*07/27/17 09:57*	*07/27/17 11:47*	*1*

Lab Sample ID: LCS 480-369004/1-A
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	44.2		ug/Kg		88	77 - 121
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/Kg		103	80 - 120
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.1		ug/Kg		76	60 - 140
1,1-Dichloroethane	50.0	46.8		ug/Kg		94	73 - 126
1,1-Dichloroethene	50.0	42.4		ug/Kg		85	59 - 125
1,2,4-Trichlorobenzene	50.0	44.0		ug/Kg		88	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	49.9		ug/Kg		100	63 - 124
1,2-Dibromoethane	50.0	48.8		ug/Kg		98	78 - 120
1,2-Dichlorobenzene	50.0	46.9		ug/Kg		94	75 - 120
1,2-Dichloroethane	50.0	48.3		ug/Kg		97	77 - 122
1,2-Dichloropropane	50.0	47.1		ug/Kg		94	75 - 124
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	74 - 120
1,4-Dichlorobenzene	50.0	47.3		ug/Kg		95	73 - 120
2-Hexanone	250	252		ug/Kg		101	59 - 130
2-Butanone (MEK)	250	258		ug/Kg		103	70 - 134
4-Methyl-2-pentanone (MIBK)	250	248		ug/Kg		99	65 - 133
Acetone	250	260		ug/Kg		104	61 - 137
Benzene	50.0	45.8		ug/Kg		92	79 - 127
Bromodichloromethane	50.0	52.2		ug/Kg		104	80 - 122
Bromoform	50.0	44.2		ug/Kg		88	68 - 126
Bromomethane	50.0	70.0		ug/Kg		140	37 - 149

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-369004/1-A
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	50.0	37.7		ug/Kg		75	64 - 131
Carbon tetrachloride	50.0	46.2		ug/Kg		92	75 - 135
Chlorobenzene	50.0	45.8		ug/Kg		92	76 - 124
Dibromochloromethane	50.0	47.4		ug/Kg		95	76 - 125
Chloroethane	50.0	69.3	*	ug/Kg		139	69 - 135
Chloroform	50.0	47.7		ug/Kg		95	80 - 120
Chloromethane	50.0	46.6		ug/Kg		93	63 - 127
cis-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	81 - 120
cis-1,3-Dichloropropene	50.0	48.1		ug/Kg		96	80 - 120
Cyclohexane	50.0	38.4		ug/Kg		77	65 - 120
Dichlorodifluoromethane	50.0	35.1		ug/Kg		70	57 - 142
Ethylbenzene	50.0	46.1		ug/Kg		92	80 - 120
Isopropylbenzene	50.0	45.0		ug/Kg		90	72 - 120
Methyl acetate	250	262		ug/Kg		105	55 - 136
Methyl tert-butyl ether	50.0	48.7		ug/Kg		97	63 - 125
Methylcyclohexane	50.0	36.9		ug/Kg		74	60 - 140
Methylene Chloride	50.0	50.6		ug/Kg		101	61 - 127
Styrene	50.0	46.0		ug/Kg		92	80 - 120
Tetrachloroethene	50.0	41.0		ug/Kg		82	74 - 122
Toluene	50.0	45.2		ug/Kg		90	74 - 128
trans-1,2-Dichloroethene	50.0	45.3		ug/Kg		91	78 - 126
trans-1,3-Dichloropropene	50.0	50.7		ug/Kg		101	73 - 123
Trichloroethene	50.0	43.8		ug/Kg		88	77 - 129
Trichlorofluoromethane	50.0	42.8		ug/Kg		86	65 - 146
Vinyl chloride	50.0	44.3		ug/Kg		89	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 126*
Toluene-d8 (Surr)	*95*		*71 - 125*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*

Lab Sample ID: 480-121411-3 MS
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	vs	59.3	52.7	vs	ug/Kg	☼	89	77 - 121
1,1,2,2-Tetrachloroethane	ND	vs	59.3	47.9	vs	ug/Kg	☼	81	80 - 120
1,1,2-Trichloroethane	ND	vs	59.3	49.3	vs	ug/Kg	☼	83	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	59.3	49.2	vs	ug/Kg	☼	83	60 - 140
1,1-Dichloroethane	ND	vs	59.3	54.5	vs	ug/Kg	☼	92	73 - 126
1,1-Dichloroethene	ND	vs	59.3	51.5	vs	ug/Kg	☼	87	59 - 125
1,2,4-Trichlorobenzene	ND	vs	59.3	40.3	vs	ug/Kg	☼	68	64 - 120
1,2-Dibromo-3-Chloropropane	ND	vs	59.3	38.6	vs	ug/Kg	☼	65	63 - 124
1,2-Dibromoethane	ND	vs	59.3	46.3	vs	ug/Kg	☼	78	78 - 120
1,2-Dichlorobenzene	ND	vs	59.3	51.1	vs	ug/Kg	☼	86	75 - 120
1,2-Dichloroethane	ND	vs	59.3	49.9	vs	ug/Kg	☼	84	77 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-121411-3 MS
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	ND	vs	59.3	53.5	vs	ug/Kg	☼	90	75 - 124
1,3-Dichlorobenzene	ND	vs	59.3	52.9	vs	ug/Kg	☼	89	74 - 120
1,4-Dichlorobenzene	ND	vs	59.3	51.9	vs	ug/Kg	☼	87	73 - 120
2-Hexanone	ND	vs	297	199	vs	ug/Kg	☼	67	59 - 130
2-Butanone (MEK)	ND	vs F1	297	188	F1 vs	ug/Kg	☼	63	70 - 134
4-Methyl-2-pentanone (MIBK)	ND	vs	297	204	vs	ug/Kg	☼	69	65 - 133
Acetone	ND	vs	297	190	vs	ug/Kg	☼	64	61 - 137
Benzene	ND	vs	59.3	54.8	vs	ug/Kg	☼	92	79 - 127
Bromodichloromethane	ND	vs	59.3	57.4	vs	ug/Kg	☼	97	80 - 122
Bromoform	ND	vs	59.3	41.0	vs	ug/Kg	☼	69	68 - 126
Bromomethane	ND	vs F1 *	59.3	101	F1 vs	ug/Kg	☼	171	37 - 149
Carbon disulfide	ND	vs	59.3	44.1	vs	ug/Kg	☼	74	64 - 131
Carbon tetrachloride	ND	vs	59.3	55.8	vs	ug/Kg	☼	94	75 - 135
Chlorobenzene	ND	vs	59.3	51.8	vs	ug/Kg	☼	87	76 - 124
Dibromochloromethane	ND	vs	59.3	48.2	vs	ug/Kg	☼	81	76 - 125
Chloroethane	ND	vs F1 *	59.3	95.9	F1 vs	ug/Kg	☼	162	69 - 135
Chloroform	ND	vs	59.3	55.6	vs	ug/Kg	☼	94	80 - 120
Chloromethane	ND	vs	59.3	57.8	vs	ug/Kg	☼	97	63 - 127
cis-1,2-Dichloroethene	ND	vs	59.3	54.7	vs	ug/Kg	☼	92	80 - 120
cis-1,3-Dichloropropene	ND	vs	59.3	50.6	vs	ug/Kg	☼	85	80 - 120
Cyclohexane	ND	vs	59.3	47.2	vs	ug/Kg	☼	79	65 - 120
Dichlorodifluoromethane	ND	vs	59.3	47.6	vs	ug/Kg	☼	80	57 - 142
Ethylbenzene	ND	vs	59.3	54.4	vs	ug/Kg	☼	92	80 - 120
Isopropylbenzene	ND	vs	59.3	55.8	vs	ug/Kg	☼	94	72 - 120
Methyl acetate	ND	vs	297	183	vs	ug/Kg	☼	62	55 - 136
Methyl tert-butyl ether	ND	vs	59.3	47.6	vs	ug/Kg	☼	80	63 - 125
Methylcyclohexane	ND	vs	59.3	43.6	vs	ug/Kg	☼	73	60 - 140
Methylene Chloride	ND	vs	59.3	58.9	vs	ug/Kg	☼	99	61 - 127
Styrene	ND	vs	59.3	51.7	vs	ug/Kg	☼	87	80 - 120
Tetrachloroethene	ND	vs	59.3	48.0	vs	ug/Kg	☼	81	74 - 122
Toluene	ND	vs	59.3	53.7	vs	ug/Kg	☼	91	74 - 128
trans-1,2-Dichloroethene	ND	vs	59.3	53.6	vs	ug/Kg	☼	90	78 - 126
trans-1,3-Dichloropropene	ND	vs	59.3	50.5	vs	ug/Kg	☼	85	73 - 123
Trichloroethene	ND	vs	59.3	51.7	vs	ug/Kg	☼	87	77 - 129
Trichlorofluoromethane	ND	vs	59.3	58.7	vs	ug/Kg	☼	99	65 - 146
Vinyl chloride	ND	vs	59.3	56.4	vs	ug/Kg	☼	95	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*75*		*64 - 126*
Toluene-d8 (Surr)	*94*		*71 - 125*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*

Lab Sample ID: 480-121411-3 MSD
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	vs	59.9	50.3	vs	ug/Kg	☼	84	77 - 121	5	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-121411-3 MSD
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	ND	vs	59.9	49.8	vs	ug/Kg	☼	83	80 - 120	4	30
1,1,2-Trichloroethane	ND	vs	59.9	50.7	vs	ug/Kg	☼	85	78 - 122	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	59.9	44.1	vs	ug/Kg	☼	74	60 - 140	11	30
1,1-Dichloroethane	ND	vs	59.9	53.1	vs	ug/Kg	☼	89	73 - 126	2	30
1,1-Dichloroethene	ND	vs	59.9	47.7	vs	ug/Kg	☼	80	59 - 125	8	30
1,2,4-Trichlorobenzene	ND	vs	59.9	39.2	vs	ug/Kg	☼	65	64 - 120	3	30
1,2-Dibromo-3-Chloropropane	ND	vs	59.9	41.6	vs	ug/Kg	☼	69	63 - 124	7	30
1,2-Dibromoethane	ND	vs	59.9	47.6	vs	ug/Kg	☼	79	78 - 120	3	30
1,2-Dichlorobenzene	ND	vs	59.9	49.8	vs	ug/Kg	☼	83	75 - 120	3	30
1,2-Dichloroethane	ND	vs	59.9	50.3	vs	ug/Kg	☼	84	77 - 122	1	30
1,2-Dichloropropane	ND	vs	59.9	52.1	vs	ug/Kg	☼	87	75 - 124	3	30
1,3-Dichlorobenzene	ND	vs	59.9	50.3	vs	ug/Kg	☼	84	74 - 120	5	30
1,4-Dichlorobenzene	ND	vs	59.9	49.9	vs	ug/Kg	☼	83	73 - 120	4	30
2-Hexanone	ND	vs	300	222	vs	ug/Kg	☼	74	59 - 130	11	30
2-Butanone (MEK)	ND	vs F1	300	210	vs	ug/Kg	☼	70	70 - 134	11	30
4-Methyl-2-pentanone (MIBK)	ND	vs	300	222	vs	ug/Kg	☼	74	65 - 133	8	30
Acetone	ND	vs	300	200	vs	ug/Kg	☼	67	61 - 137	5	30
Benzene	ND	vs	59.9	52.5	vs	ug/Kg	☼	88	79 - 127	4	30
Bromodichloromethane	ND	vs	59.9	57.6	vs	ug/Kg	☼	96	80 - 122	0	30
Bromoform	ND	vs	59.9	42.5	vs	ug/Kg	☼	71	68 - 126	4	30
Bromomethane	ND	vs F1 *	59.9	86.0	vs	ug/Kg	☼	144	37 - 149	16	30
Carbon disulfide	ND	vs	59.9	40.7	vs	ug/Kg	☼	68	64 - 131	8	30
Carbon tetrachloride	ND	vs	59.9	52.4	vs	ug/Kg	☼	87	75 - 135	6	30
Chlorobenzene	ND	vs	59.9	50.8	vs	ug/Kg	☼	85	76 - 124	2	30
Dibromochloromethane	ND	vs	59.9	49.5	vs	ug/Kg	☼	83	76 - 125	3	30
Chloroethane	ND	vs F1 *	59.9	76.9	vs	ug/Kg	☼	128	69 - 135	22	30
Chloroform	ND	vs	59.9	53.4	vs	ug/Kg	☼	89	80 - 120	4	30
Chloromethane	ND	vs	59.9	49.6	vs	ug/Kg	☼	83	63 - 127	15	30
cis-1,2-Dichloroethene	ND	vs	59.9	52.6	vs	ug/Kg	☼	88	80 - 120	4	30
cis-1,3-Dichloropropene	ND	vs	59.9	50.6	vs	ug/Kg	☼	85	80 - 120	0	30
Cyclohexane	ND	vs	59.9	43.3	vs	ug/Kg	☼	72	65 - 120	9	30
Dichlorodifluoromethane	ND	vs	59.9	42.6	vs	ug/Kg	☼	71	57 - 142	11	30
Ethylbenzene	ND	vs	59.9	52.2	vs	ug/Kg	☼	87	80 - 120	4	30
Isopropylbenzene	ND	vs	59.9	52.6	vs	ug/Kg	☼	88	72 - 120	6	30
Methyl acetate	ND	vs	300	189	vs	ug/Kg	☼	63	55 - 136	3	30
Methyl tert-butyl ether	ND	vs	59.9	49.1	vs	ug/Kg	☼	82	63 - 125	3	30
Methylcyclohexane	ND	vs	59.9	40.7	vs	ug/Kg	☼	68	60 - 140	7	30
Methylene Chloride	ND	vs	59.9	57.0	vs	ug/Kg	☼	95	61 - 127	3	30
Styrene	ND	vs	59.9	50.7	vs	ug/Kg	☼	85	80 - 120	2	30
Tetrachloroethene	ND	vs	59.9	45.4	vs	ug/Kg	☼	76	74 - 122	6	30
Toluene	ND	vs	59.9	51.7	vs	ug/Kg	☼	86	74 - 128	4	30
trans-1,2-Dichloroethene	ND	vs	59.9	51.0	vs	ug/Kg	☼	85	78 - 126	5	30
trans-1,3-Dichloropropene	ND	vs	59.9	51.3	vs	ug/Kg	☼	86	73 - 123	2	30
Trichloroethene	ND	vs	59.9	50.1	vs	ug/Kg	☼	84	77 - 129	3	30
Trichlorofluoromethane	ND	vs	59.9	50.4	vs	ug/Kg	☼	84	65 - 146	15	30
Vinyl chloride	ND	vs	59.9	47.8	vs	ug/Kg	☼	80	61 - 133	17	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-121411-3 MSD
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 369004

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*77*		*64 - 126*
Toluene-d8 (Surr)	*93*		*71 - 125*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-368148/1-A
Matrix: Solid
Analysis Batch: 368383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2,4-Dinitrophenol	ND		1600	780	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2-Chloronaphthalene	ND		170	28	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2-Chlorophenol	ND		170	31	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2-Methylnaphthalene	ND		170	34	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2-Methylphenol	ND		170	20	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2-Nitroaniline	ND		330	25	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
2-Nitrophenol	ND		170	48	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
3-Nitroaniline	ND		330	47	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
4-Chloroaniline	ND		170	42	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
4-Methylphenol	ND		330	20	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
4-Nitroaniline	ND		330	88	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
4-Nitrophenol	ND		330	120	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Acenaphthene	ND		170	25	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Acenaphthylene	ND		170	22	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Acetophenone	ND		170	23	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Anthracene	ND		170	42	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Atrazine	ND		170	58	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Benzaldehyde	ND		170	130	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Benzo(a)anthracene	ND		170	17	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Benzo(a)pyrene	ND		170	25	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Benzo(b)fluoranthene	ND		170	27	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Benzo(g,h,i)perylene	ND		170	18	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Benzo(k)fluoranthene	ND		170	22	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		07/21/17 14:18	07/24/17 14:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-368148/1-A
Matrix: Solid
Analysis Batch: 368383

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Caprolactam	ND		170	51	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Carbazole	ND		170	20	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Chrysene	ND		170	38	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Dibenzofuran	ND		170	20	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Diethyl phthalate	ND		170	22	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Dimethyl phthalate	ND		170	20	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Fluoranthene	ND		170	18	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Fluorene	ND		170	20	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Hexachlorobenzene	ND		170	23	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Hexachlorobutadiene	ND		170	25	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Hexachloroethane	ND		170	22	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Indeno(1,2,3-cd)pyrene	ND		170	21	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Isophorone	ND		170	36	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Naphthalene	ND		170	22	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Nitrobenzene	ND		170	19	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Pentachlorophenol	ND		330	170	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Phenanthrene	ND		170	25	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Phenol	ND		170	26	ug/Kg		07/21/17 14:18	07/24/17 14:33	1
Pyrene	ND		170	20	ug/Kg		07/21/17 14:18	07/24/17 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*54 - 120*	*07/21/17 14:18*	*07/24/17 14:33*	*1*
2-Fluorobiphenyl	*82*		*60 - 120*	*07/21/17 14:18*	*07/24/17 14:33*	*1*
2-Fluorophenol	*81*		*52 - 120*	*07/21/17 14:18*	*07/24/17 14:33*	*1*
Nitrobenzene-d5	*83*		*53 - 120*	*07/21/17 14:18*	*07/24/17 14:33*	*1*
p-Terphenyl-d14	*101*		*65 - 121*	*07/21/17 14:18*	*07/24/17 14:33*	*1*
Phenol-d5	*79*		*54 - 120*	*07/21/17 14:18*	*07/24/17 14:33*	*1*

Lab Sample ID: LCS 480-368148/2-A
Matrix: Solid
Analysis Batch: 368383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1650	1490		ug/Kg		90	59 - 120
bis (2-chloroisopropyl) ether	1650	1510		ug/Kg		92	44 - 120
2,4,5-Trichlorophenol	1650	1490		ug/Kg		90	59 - 126
2,4,6-Trichlorophenol	1650	1540		ug/Kg		94	59 - 123
2,4-Dichlorophenol	1650	1490		ug/Kg		90	61 - 120
2,4-Dimethylphenol	1650	1570		ug/Kg		95	59 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-368148/2-A
Matrix: Solid
Analysis Batch: 368383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrophenol	3300	2880		ug/Kg		87	41 - 146
2,4-Dinitrotoluene	1650	1590		ug/Kg		97	63 - 120
2,6-Dinitrotoluene	1650	1490		ug/Kg		90	66 - 120
2-Chloronaphthalene	1650	1470		ug/Kg		89	57 - 120
2-Chlorophenol	1650	1420		ug/Kg		86	53 - 120
2-Methylnaphthalene	1650	1450		ug/Kg		88	59 - 120
2-Methylphenol	1650	1510		ug/Kg		92	54 - 120
2-Nitroaniline	1650	1600		ug/Kg		97	61 - 120
2-Nitrophenol	1650	1440		ug/Kg		87	56 - 120
3,3'-Dichlorobenzidine	3300	2860		ug/Kg		87	54 - 120
3-Nitroaniline	1650	1420		ug/Kg		86	48 - 120
4,6-Dinitro-2-methylphenol	3300	2940		ug/Kg		89	49 - 122
4-Bromophenyl phenyl ether	1650	1630		ug/Kg		99	58 - 120
4-Chloro-3-methylphenol	1650	1500		ug/Kg		91	61 - 120
4-Chloroaniline	1650	1300		ug/Kg		79	38 - 120
4-Chlorophenyl phenyl ether	1650	1560		ug/Kg		95	63 - 124
4-Methylphenol	1650	1490		ug/Kg		90	55 - 120
4-Nitroaniline	1650	1480		ug/Kg		90	56 - 120
4-Nitrophenol	3300	3210		ug/Kg		97	43 - 147
Acenaphthene	1650	1500		ug/Kg		91	62 - 120
Acenaphthylene	1650	1500		ug/Kg		91	58 - 121
Acetophenone	1650	1460		ug/Kg		89	54 - 120
Anthracene	1650	1660		ug/Kg		101	62 - 120
Atrazine	3300	3580		ug/Kg		108	60 - 127
Benzaldehyde	3300	2260		ug/Kg		68	10 - 150
Benzo(a)anthracene	1650	1660		ug/Kg		100	65 - 120
Benzo(a)pyrene	1650	1680		ug/Kg		102	64 - 120
Benzo(b)fluoranthene	1650	1670		ug/Kg		101	64 - 120
Benzo(g,h,i)perylene	1650	1690		ug/Kg		103	45 - 145
Benzo(k)fluoranthene	1650	1650		ug/Kg		100	65 - 120
Bis(2-chloroethoxy)methane	1650	1460		ug/Kg		89	55 - 120
Bis(2-chloroethyl)ether	1650	1400		ug/Kg		85	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1630		ug/Kg		99	61 - 133
Butyl benzyl phthalate	1650	1630		ug/Kg		99	61 - 129
Caprolactam	3300	3020		ug/Kg		92	47 - 120
Carbazole	1650	1650		ug/Kg		100	65 - 120
Chrysene	1650	1610		ug/Kg		98	64 - 120
Di-n-butyl phthalate	1650	1650		ug/Kg		100	58 - 130
Di-n-octyl phthalate	1650	1680		ug/Kg		102	57 - 133
Dibenz(a,h)anthracene	1650	1710		ug/Kg		104	54 - 132
Dibenzofuran	1650	1520		ug/Kg		92	63 - 120
Diethyl phthalate	1650	1610		ug/Kg		98	66 - 120
Dimethyl phthalate	1650	1580		ug/Kg		96	65 - 124
Fluoranthene	1650	1690		ug/Kg		102	62 - 120
Fluorene	1650	1530		ug/Kg		93	63 - 120
Hexachlorobenzene	1650	1690		ug/Kg		103	60 - 120
Hexachlorobutadiene	1650	1390		ug/Kg		85	45 - 120
Hexachlorocyclopentadiene	1650	1410		ug/Kg		86	47 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-368148/2-A
Matrix: Solid
Analysis Batch: 368383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachloroethane	1650	1320		ug/Kg		80	41 - 120
Indeno(1,2,3-cd)pyrene	1650	1710		ug/Kg		104	56 - 134
Isophorone	1650	1520		ug/Kg		92	56 - 120
N-Nitrosodi-n-propylamine	1650	1430		ug/Kg		86	52 - 120
N-Nitrosodiphenylamine	1650	1600		ug/Kg		97	51 - 128
Naphthalene	1650	1390		ug/Kg		84	55 - 120
Nitrobenzene	1650	1460		ug/Kg		89	54 - 120
Pentachlorophenol	3300	2980		ug/Kg		90	51 - 120
Phenanthrene	1650	1630		ug/Kg		99	60 - 120
Phenol	1650	1360		ug/Kg		83	53 - 120
Pyrene	1650	1600		ug/Kg		97	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*95*		*54 - 120*
2-Fluorobiphenyl	*88*		*60 - 120*
2-Fluorophenol	*86*		*52 - 120*
Nitrobenzene-d5	*88*		*53 - 120*
p-Terphenyl-d14	*97*		*65 - 121*
Phenol-d5	*89*		*54 - 120*

Lab Sample ID: 480-121411-3 MS
Matrix: Solid
Analysis Batch: 368383

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		1970	1650		ug/Kg	☼	84	58 - 120
bis (2-chloroisopropyl) ether	ND		1970	1630		ug/Kg	☼	83	31 - 120
2,4,5-Trichlorophenol	ND		1970	1910		ug/Kg	☼	97	46 - 120
2,4,6-Trichlorophenol	ND		1970	1800		ug/Kg	☼	91	41 - 123
2,4-Dichlorophenol	ND		1970	1590		ug/Kg	☼	81	45 - 120
2,4-Dimethylphenol	ND		1970	1620		ug/Kg	☼	82	52 - 120
2,4-Dinitrophenol	ND		3940	ND		ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	ND		1970	1840		ug/Kg	☼	94	63 - 125
2,6-Dinitrotoluene	ND		1970	1710		ug/Kg	☼	87	66 - 120
2-Chloronaphthalene	ND		1970	1710		ug/Kg	☼	87	57 - 120
2-Chlorophenol	ND		1970	1400		ug/Kg	☼	71	43 - 120
2-Methylnaphthalene	ND		1970	1650		ug/Kg	☼	84	55 - 120
2-Methylphenol	ND		1970	1540		ug/Kg	☼	78	48 - 120
2-Nitroaniline	ND		1970	1810	J	ug/Kg	☼	92	61 - 120
2-Nitrophenol	ND		1970	1680		ug/Kg	☼	85	37 - 120
3,3'-Dichlorobenzidine	ND		3940	3530		ug/Kg	☼	90	37 - 126
3-Nitroaniline	ND		1970	1860	J	ug/Kg	☼	94	48 - 120
4,6-Dinitro-2-methylphenol	ND		3940	3210		ug/Kg	☼	82	23 - 149
4-Bromophenyl phenyl ether	ND		1970	1910		ug/Kg	☼	97	58 - 120
4-Chloro-3-methylphenol	ND		1970	1820		ug/Kg	☼	92	49 - 125
4-Chloroaniline	ND		1970	1400		ug/Kg	☼	71	38 - 120
4-Chlorophenyl phenyl ether	ND		1970	1910		ug/Kg	☼	97	63 - 124
4-Methylphenol	ND		1970	1570	J	ug/Kg	☼	80	50 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-121411-3 MS
Matrix: Solid
Analysis Batch: 368383

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	ND		1970	1740	J	ug/Kg	☼	88	47 - 120
4-Nitrophenol	ND		3940	3780		ug/Kg	☼	96	31 - 147
Acenaphthene	ND		1970	1840		ug/Kg	☼	93	60 - 120
Acenaphthylene	ND		1970	1840		ug/Kg	☼	94	58 - 121
Acetophenone	ND		1970	1500		ug/Kg	☼	76	47 - 120
Anthracene	ND		1970	1840		ug/Kg	☼	93	62 - 120
Atrazine	ND		3940	4060		ug/Kg	☼	103	60 - 150
Benzaldehyde	ND		3940	2320		ug/Kg	☼	59	10 - 150
Benzo(a)anthracene	ND		1970	1830		ug/Kg	☼	93	65 - 120
Benzo(a)pyrene	ND		1970	1870		ug/Kg	☼	95	64 - 120
Benzo(b)fluoranthene	ND		1970	1770		ug/Kg	☼	90	64 - 120
Benzo(g,h,i)perylene	ND		1970	1900		ug/Kg	☼	96	45 - 145
Benzo(k)fluoranthene	ND		1970	2090		ug/Kg	☼	106	65 - 120
Bis(2-chloroethoxy)methane	ND		1970	1640		ug/Kg	☼	83	52 - 120
Bis(2-chloroethyl)ether	ND		1970	1560		ug/Kg	☼	79	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1970	1870		ug/Kg	☼	95	61 - 133
Butyl benzyl phthalate	ND		1970	1880		ug/Kg	☼	95	61 - 120
Caprolactam	ND		3940	3640		ug/Kg	☼	92	37 - 133
Carbazole	ND		1970	1930		ug/Kg	☼	98	59 - 120
Chrysene	ND		1970	2000		ug/Kg	☼	102	64 - 120
Di-n-butyl phthalate	ND		1970	1880		ug/Kg	☼	95	58 - 130
Di-n-octyl phthalate	ND		1970	1940		ug/Kg	☼	98	57 - 133
Dibenz(a,h)anthracene	ND		1970	1950		ug/Kg	☼	99	54 - 132
Dibenzofuran	ND		1970	1770		ug/Kg	☼	90	62 - 120
Diethyl phthalate	ND		1970	1800		ug/Kg	☼	92	66 - 120
Dimethyl phthalate	ND		1970	1870		ug/Kg	☼	95	65 - 124
Fluoranthene	ND		1970	1890		ug/Kg	☼	96	62 - 120
Fluorene	ND		1970	1790		ug/Kg	☼	91	63 - 120
Hexachlorobenzene	ND		1970	1940		ug/Kg	☼	99	60 - 120
Hexachlorobutadiene	ND		1970	1520		ug/Kg	☼	77	45 - 120
Hexachlorocyclopentadiene	ND		1970	1550		ug/Kg	☼	79	31 - 120
Hexachloroethane	ND		1970	1350		ug/Kg	☼	68	21 - 120
Indeno(1,2,3-cd)pyrene	ND		1970	2000		ug/Kg	☼	102	56 - 134
Isophorone	ND		1970	1640		ug/Kg	☼	84	56 - 120
N-Nitrosodi-n-propylamine	ND		1970	1580		ug/Kg	☼	80	46 - 120
N-Nitrosodiphenylamine	ND		1970	1790		ug/Kg	☼	91	20 - 128
Naphthalene	ND		1970	1580		ug/Kg	☼	80	46 - 120
Nitrobenzene	ND		1970	1680		ug/Kg	☼	85	49 - 120
Pentachlorophenol	ND		3940	2960		ug/Kg	☼	75	25 - 136
Phenanthrene	ND		1970	1900		ug/Kg	☼	97	60 - 122
Phenol	ND		1970	1440		ug/Kg	☼	73	50 - 120
Pyrene	ND		1970	1870		ug/Kg	☼	95	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*94*		*54 - 120*
2-Fluorobiphenyl	*83*		*60 - 120*
2-Fluorophenol	*66*		*52 - 120*
Nitrobenzene-d5	*81*		*53 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-121411-3 MS
Matrix: Solid
Analysis Batch: 368383

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368148

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl-d14	92		65 - 121
Phenol-d5	78		54 - 120

Lab Sample ID: 480-121411-3 MSD
Matrix: Solid
Analysis Batch: 368383

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		1990	1820		ug/Kg	☼	91	58 - 120	9	20
bis (2-chloroisopropyl) ether	ND		1990	1700		ug/Kg	☼	85	31 - 120	4	24
2,4,5-Trichlorophenol	ND		1990	1950		ug/Kg	☼	98	46 - 120	2	18
2,4,6-Trichlorophenol	ND		1990	1840		ug/Kg	☼	92	41 - 123	2	19
2,4-Dichlorophenol	ND		1990	1700		ug/Kg	☼	85	45 - 120	7	19
2,4-Dimethylphenol	ND		1990	1710		ug/Kg	☼	86	52 - 120	5	42
2,4-Dinitrophenol	ND		3990	ND		ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		1990	1890		ug/Kg	☼	95	63 - 125	3	20
2,6-Dinitrotoluene	ND		1990	1820		ug/Kg	☼	91	66 - 120	6	15
2-Chloronaphthalene	ND		1990	1710		ug/Kg	☼	86	57 - 120	0	21
2-Chlorophenol	ND		1990	1510		ug/Kg	☼	76	43 - 120	8	25
2-Methylnaphthalene	ND		1990	1680		ug/Kg	☼	84	55 - 120	2	21
2-Methylphenol	ND		1990	1640		ug/Kg	☼	82	48 - 120	6	27
2-Nitroaniline	ND		1990	1940	J	ug/Kg	☼	97	61 - 120	7	15
2-Nitrophenol	ND		1990	1720		ug/Kg	☼	86	37 - 120	3	18
3,3'-Dichlorobenzidine	ND		3990	3650		ug/Kg	☼	92	37 - 126	3	25
3-Nitroaniline	ND		1990	1850	J	ug/Kg	☼	93	48 - 120	0	19
4,6-Dinitro-2-methylphenol	ND		3990	3220		ug/Kg	☼	81	23 - 149	0	15
4-Bromophenyl phenyl ether	ND		1990	2000		ug/Kg	☼	100	58 - 120	5	15
4-Chloro-3-methylphenol	ND		1990	1880		ug/Kg	☼	94	49 - 125	3	27
4-Chloroaniline	ND		1990	1480		ug/Kg	☼	74	38 - 120	6	22
4-Chlorophenyl phenyl ether	ND		1990	1880		ug/Kg	☼	94	63 - 124	2	16
4-Methylphenol	ND		1990	1650	J	ug/Kg	☼	83	50 - 120	5	24
4-Nitroaniline	ND		1990	1780	J	ug/Kg	☼	89	47 - 120	2	24
4-Nitrophenol	ND		3990	3790		ug/Kg	☼	95	31 - 147	0	25
Acenaphthene	ND		1990	1830		ug/Kg	☼	92	60 - 120	0	35
Acenaphthylene	ND		1990	1790		ug/Kg	☼	90	58 - 121	3	18
Acetophenone	ND		1990	1590		ug/Kg	☼	80	47 - 120	6	20
Anthracene	ND		1990	1900		ug/Kg	☼	95	62 - 120	3	15
Atrazine	ND		3990	4190		ug/Kg	☼	105	60 - 150	3	20
Benzaldehyde	ND		3990	2580		ug/Kg	☼	65	10 - 150	11	20
Benzo(a)anthracene	ND		1990	2020		ug/Kg	☼	101	65 - 120	10	15
Benzo(a)pyrene	ND		1990	1900		ug/Kg	☼	95	64 - 120	1	15
Benzo(b)fluoranthene	ND		1990	1830		ug/Kg	☼	92	64 - 120	3	15
Benzo(g,h,i)perylene	ND		1990	1920		ug/Kg	☼	96	45 - 145	1	15
Benzo(k)fluoranthene	ND		1990	2090		ug/Kg	☼	105	65 - 120	0	22
Bis(2-chloroethoxy)methane	ND		1990	1680		ug/Kg	☼	84	52 - 120	2	17
Bis(2-chloroethyl)ether	ND		1990	1550		ug/Kg	☼	78	45 - 120	1	21
Bis(2-ethylhexyl) phthalate	ND		1990	1960		ug/Kg	☼	99	61 - 133	5	15
Butyl benzyl phthalate	ND		1990	1990		ug/Kg	☼	100	61 - 120	6	16

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-121411-3 MSD
Matrix: Solid
Analysis Batch: 368383

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Caprolactam	ND		3990	3880		ug/Kg	☼	97	37 - 133	7	20
Carbazole	ND		1990	1940		ug/Kg	☼	97	59 - 120	0	20
Chrysene	ND		1990	2070		ug/Kg	☼	104	64 - 120	3	15
Di-n-butyl phthalate	ND		1990	2010		ug/Kg	☼	101	58 - 130	7	15
Di-n-octyl phthalate	ND		1990	2020		ug/Kg	☼	101	57 - 133	4	16
Dibenz(a,h)anthracene	ND		1990	1900		ug/Kg	☼	96	54 - 132	3	15
Dibenzofuran	ND		1990	1850		ug/Kg	☼	93	62 - 120	5	15
Diethyl phthalate	ND		1990	1990		ug/Kg	☼	100	66 - 120	10	15
Dimethyl phthalate	ND		1990	1890		ug/Kg	☼	95	65 - 124	1	15
Fluoranthene	ND		1990	2000		ug/Kg	☼	100	62 - 120	6	15
Fluorene	ND		1990	1870		ug/Kg	☼	94	63 - 120	4	15
Hexachlorobenzene	ND		1990	1900		ug/Kg	☼	95	60 - 120	2	15
Hexachlorobutadiene	ND		1990	1530		ug/Kg	☼	77	45 - 120	1	44
Hexachlorocyclopentadiene	ND		1990	1650		ug/Kg	☼	83	31 - 120	6	49
Hexachloroethane	ND		1990	1480		ug/Kg	☼	74	21 - 120	9	46
Indeno(1,2,3-cd)pyrene	ND		1990	1990		ug/Kg	☼	100	56 - 134	1	15
Isophorone	ND		1990	1710		ug/Kg	☼	86	56 - 120	4	17
N-Nitrosodi-n-propylamine	ND		1990	1670		ug/Kg	☼	84	46 - 120	6	31
N-Nitrosodiphenylamine	ND		1990	1890		ug/Kg	☼	95	20 - 128	6	15
Naphthalene	ND		1990	1620		ug/Kg	☼	81	46 - 120	3	29
Nitrobenzene	ND		1990	1590		ug/Kg	☼	80	49 - 120	6	24
Pentachlorophenol	ND		3990	3220		ug/Kg	☼	81	25 - 136	8	35
Phenanthrene	ND		1990	2010		ug/Kg	☼	101	60 - 122	5	15
Phenol	ND		1990	1590		ug/Kg	☼	80	50 - 120	10	35
Pyrene	ND		1990	1920		ug/Kg	☼	96	61 - 133	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*97*		*54 - 120*
2-Fluorobiphenyl	*89*		*60 - 120*
2-Fluorophenol	*71*		*52 - 120*
Nitrobenzene-d5	*82*		*53 - 120*
p-Terphenyl-d14	*95*		*65 - 121*
Phenol-d5	*85*		*54 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-368029/1-A
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
4,4'-DDT	ND		1.6	0.38	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Aldrin	ND		1.6	0.40	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
alpha-BHC	ND		1.6	0.29	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
alpha-Chlordane	ND		1.6	0.81	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
beta-BHC	ND		1.6	0.29	ug/Kg		07/21/17 06:42	07/22/17 11:27	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-368029/1-A
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		1.6	0.30	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Dieldrin	ND		1.6	0.39	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endosulfan I	ND		1.6	0.31	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endosulfan II	ND		1.6	0.29	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endosulfan sulfate	ND		1.6	0.30	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endrin	ND		1.6	0.32	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endrin aldehyde	ND		1.6	0.41	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Endrin ketone	ND		1.6	0.40	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
gamma-Chlordane	ND		1.6	0.52	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Heptachlor	ND		1.6	0.35	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Methoxychlor	ND		1.6	0.33	ug/Kg		07/21/17 06:42	07/22/17 11:27	1
Toxaphene	ND		16	9.4	ug/Kg		07/21/17 06:42	07/22/17 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*45 - 120*	*07/21/17 06:42*	*07/22/17 11:27*	*1*
DCB Decachlorobiphenyl	*101*		*45 - 120*	*07/21/17 06:42*	*07/22/17 11:27*	*1*
Tetrachloro-m-xylene	*70*		*30 - 124*	*07/21/17 06:42*	*07/22/17 11:27*	*1*
Tetrachloro-m-xylene	*59*		*30 - 124*	*07/21/17 06:42*	*07/22/17 11:27*	*1*

Lab Sample ID: LCS 480-368029/2-A
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.3	14.0		ug/Kg		86	56 - 120
4,4'-DDE	16.3	13.0		ug/Kg		80	44 - 120
4,4'-DDT	16.3	14.0		ug/Kg		86	38 - 120
Aldrin	16.3	10.1		ug/Kg		62	38 - 120
alpha-BHC	16.3	10.1		ug/Kg		62	39 - 120
alpha-Chlordane	16.3	12.0		ug/Kg		74	47 - 120
beta-BHC	16.3	10.5		ug/Kg		64	40 - 120
delta-BHC	16.3	11.2		ug/Kg		69	45 - 120
Dieldrin	16.3	13.9		ug/Kg		86	58 - 120
Endosulfan I	16.3	9.78		ug/Kg		60	49 - 120
Endosulfan II	16.3	10.7		ug/Kg		66	55 - 120
Endosulfan sulfate	16.3	11.9		ug/Kg		73	49 - 124
Endrin	16.3	13.2		ug/Kg		81	58 - 120
Endrin aldehyde	16.3	10.9		ug/Kg		67	37 - 121
Endrin ketone	16.3	13.3		ug/Kg		82	46 - 123
gamma-BHC (Lindane)	16.3	11.0		ug/Kg		68	50 - 120
gamma-Chlordane	16.3	12.0		ug/Kg		74	48 - 120
Heptachlor	16.3	12.3		ug/Kg		76	50 - 120
Heptachlor epoxide	16.3	12.7		ug/Kg		78	50 - 120
Methoxychlor	16.3	18.0		ug/Kg		111	58 - 133

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-368029/2-A
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368029

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	92		45 - 120
DCB Decachlorobiphenyl	100		45 - 120
Tetrachloro-m-xylene	71		30 - 124
Tetrachloro-m-xylene	57		30 - 124

Lab Sample ID: 480-121411-3 MS
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.58	J	19.6	19.4		ug/Kg	☼	96	37 - 126
4,4'-DDE	1.2	J	19.6	18.3		ug/Kg	☼	87	34 - 120
4,4'-DDT	1.1	J	19.6	19.9		ug/Kg	☼	96	43 - 123
Aldrin	ND		19.6	15.7		ug/Kg	☼	80	37 - 125
alpha-BHC	ND		19.6	14.7		ug/Kg	☼	75	39 - 120
alpha-Chlordane	ND		19.6	16.4		ug/Kg	☼	84	35 - 120
beta-BHC	ND		19.6	15.7		ug/Kg	☼	80	36 - 120
delta-BHC	ND		19.6	16.0		ug/Kg	☼	82	34 - 120
Dieldrin	ND		19.6	18.3		ug/Kg	☼	93	45 - 120
Endosulfan I	ND		19.6	13.2		ug/Kg	☼	67	39 - 120
Endosulfan II	ND		19.6	14.8		ug/Kg	☼	75	34 - 126
Endosulfan sulfate	ND		19.6	18.8		ug/Kg	☼	96	27 - 130
Endrin	ND		19.6	17.8		ug/Kg	☼	90	47 - 121
Endrin aldehyde	ND		19.6	18.5		ug/Kg	☼	94	33 - 123
Endrin ketone	ND		19.6	19.1		ug/Kg	☼	97	43 - 126
gamma-BHC (Lindane)	ND		19.6	16.3		ug/Kg	☼	83	50 - 120
gamma-Chlordane	ND	F2 F1	19.6	26.3	F1	ug/Kg	☼	134	31 - 120
Heptachlor	ND		19.6	17.1		ug/Kg	☼	87	42 - 120
Heptachlor epoxide	ND	F2	19.6	17.3		ug/Kg	☼	88	40 - 120
Methoxychlor	ND	F2 F1	19.6	32.8	F1	ug/Kg	☼	167	44 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	95		45 - 120
DCB Decachlorobiphenyl	109		45 - 120
Tetrachloro-m-xylene	80		30 - 124
Tetrachloro-m-xylene	77		30 - 124

Lab Sample ID: 480-121411-3 MSD
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.58	J	19.7	20.7		ug/Kg	☼	102	37 - 126	7	21
4,4'-DDE	1.2	J	19.7	19.9		ug/Kg	☼	95	34 - 120	8	18
4,4'-DDT	1.1	J	19.7	20.9		ug/Kg	☼	101	43 - 123	5	25
Aldrin	ND		19.7	17.1		ug/Kg	☼	87	37 - 125	9	12
alpha-BHC	ND		19.7	15.8		ug/Kg	☼	80	39 - 120	8	15
alpha-Chlordane	ND		19.7	17.5		ug/Kg	☼	89	35 - 120	6	23

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-121411-3 MSD
Matrix: Solid
Analysis Batch: 368232

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
beta-BHC	ND		19.7	16.4		ug/Kg	☼	83	36 - 120	5	19
delta-BHC	ND		19.7	16.9		ug/Kg	☼	86	34 - 120	5	14
Dieldrin	ND		19.7	19.3		ug/Kg	☼	98	45 - 120	5	12
Endosulfan I	ND		19.7	14.0		ug/Kg	☼	71	39 - 120	6	18
Endosulfan II	ND		19.7	15.1		ug/Kg	☼	77	34 - 126	3	26
Endosulfan sulfate	ND		19.7	19.4		ug/Kg	☼	98	27 - 130	3	35
Endrin	ND		19.7	18.5		ug/Kg	☼	94	47 - 121	4	20
Endrin aldehyde	ND		19.7	19.2		ug/Kg	☼	97	33 - 123	4	47
Endrin ketone	ND		19.7	19.6		ug/Kg	☼	99	43 - 126	3	37
gamma-BHC (Lindane)	ND		19.7	17.6		ug/Kg	☼	89	50 - 120	8	12
gamma-Chlordane	ND	F2 F1	19.7	86.4	E F1 F2	ug/Kg	☼	438	31 - 120	107	15
Heptachlor	ND		19.7	18.6		ug/Kg	☼	95	42 - 120	8	22
Heptachlor epoxide	ND	F2	19.7	22.7	F2	ug/Kg	☼	115	40 - 120	27	15
Methoxychlor	ND	F2 F1	19.7	17.7	F2	ug/Kg	☼	90	44 - 150	60	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*45 - 120*
DCB Decachlorobiphenyl	*112*		*45 - 120*
Tetrachloro-m-xylene	*91*		*30 - 124*
Tetrachloro-m-xylene	*86*		*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-368288/1-A
Matrix: Solid
Analysis Batch: 368358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.17	0.034	mg/Kg		07/24/17 07:43	07/24/17 22:44	1
PCB-1221	ND		0.17	0.034	mg/Kg		07/24/17 07:43	07/24/17 22:44	1
PCB-1232	ND		0.17	0.034	mg/Kg		07/24/17 07:43	07/24/17 22:44	1
PCB-1242	ND		0.17	0.034	mg/Kg		07/24/17 07:43	07/24/17 22:44	1
PCB-1248	ND		0.17	0.034	mg/Kg		07/24/17 07:43	07/24/17 22:44	1
PCB-1254	ND		0.17	0.081	mg/Kg		07/24/17 07:43	07/24/17 22:44	1
PCB-1260	ND		0.17	0.081	mg/Kg		07/24/17 07:43	07/24/17 22:44	1
PCB-1262	ND		0.17	0.081	mg/Kg		07/24/17 07:43	07/24/17 22:44	1
PCB-1268	ND		0.17	0.081	mg/Kg		07/24/17 07:43	07/24/17 22:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*132*		*60 - 154*	*07/24/17 07:43*	*07/24/17 22:44*	*1*
Tetrachloro-m-xylene	*159*	*X*	*60 - 154*	*07/24/17 07:43*	*07/24/17 22:44*	*1*
DCB Decachlorobiphenyl	*116*		*65 - 174*	*07/24/17 07:43*	*07/24/17 22:44*	*1*
DCB Decachlorobiphenyl	*133*		*65 - 174*	*07/24/17 07:43*	*07/24/17 22:44*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-368288/2-A
Matrix: Solid
Analysis Batch: 368358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368288

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.87	2.96		mg/Kg		158	51 - 185		
PCB-1260			1.87	2.85		mg/Kg		152	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*153*		*60 - 154*
Tetrachloro-m-xylene	*147*		*60 - 154*
DCB Decachlorobiphenyl	*154*		*65 - 174*
DCB Decachlorobiphenyl	*162*		*65 - 174*

Lab Sample ID: 480-121411-3 MS
Matrix: Solid
Analysis Batch: 368358

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2.34	3.64		mg/Kg	☼	155	50 - 177		
PCB-1260	ND		2.34	3.53		mg/Kg	☼	151	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*158*	*X*	*60 - 154*
Tetrachloro-m-xylene	*159*	*X*	*60 - 154*
DCB Decachlorobiphenyl	*159*		*65 - 174*
DCB Decachlorobiphenyl	*177*	*X*	*65 - 174*

Lab Sample ID: 480-121411-3 MSD
Matrix: Solid
Analysis Batch: 368358

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.72	2.36		mg/Kg	☼	87	50 - 177	43	50
PCB-1260	ND		2.72	2.18		mg/Kg	☼	80	33 - 200	47	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*132*		*60 - 154*
Tetrachloro-m-xylene	*131*		*60 - 154*
DCB Decachlorobiphenyl	*131*		*65 - 174*
DCB Decachlorobiphenyl	*147*		*65 - 174*

Lab Sample ID: MB 480-368612/1-A
Matrix: Solid
Analysis Batch: 368775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.044	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1221	ND		0.22	0.044	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1232	ND		0.22	0.044	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1242	ND		0.22	0.044	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1248	ND		0.22	0.044	mg/Kg		07/25/17 14:16	07/26/17 13:35	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-368612/1-A
Matrix: Solid
Analysis Batch: 368775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		0.22	0.10	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1260	ND		0.22	0.10	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1262	ND		0.22	0.10	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1268	ND		0.22	0.10	mg/Kg		07/25/17 14:16	07/26/17 13:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*159*	*X*	*60 - 154*	*07/25/17 14:16*	*07/26/17 13:35*	*1*
Tetrachloro-m-xylene	*136*		*60 - 154*	*07/25/17 14:16*	*07/26/17 13:35*	*1*
DCB Decachlorobiphenyl	*157*		*65 - 174*	*07/25/17 14:16*	*07/26/17 13:35*	*1*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*07/25/17 14:16*	*07/26/17 13:35*	*1*

Lab Sample ID: LCS 480-368612/2-A
Matrix: Solid
Analysis Batch: 368775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368612

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.26	3.51		mg/Kg		155	51 - 185		
PCB-1260			2.26	3.24		mg/Kg		143	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*170*	*X*	*60 - 154*
Tetrachloro-m-xylene	*136*		*60 - 154*
DCB Decachlorobiphenyl	*186*	*X*	*65 - 174*
DCB Decachlorobiphenyl	*144*		*65 - 174*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-368425/1-A
Matrix: Solid
Analysis Batch: 369045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		9.2	4.1	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Antimony	ND		13.8	0.37	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Arsenic	ND		1.8	0.37	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Barium	ND		0.46	0.10	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Beryllium	ND		0.18	0.026	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Cadmium	0.0369	J	0.18	0.028	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Calcium	8.18	J	46.1	3.0	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Chromium	ND		0.46	0.18	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Cobalt	ND		0.46	0.046	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Copper	ND		0.92	0.19	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Iron	ND		9.2	3.2	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Lead	ND		0.92	0.22	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Magnesium	ND		18.5	0.86	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Manganese	0.0784	J	0.18	0.030	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Nickel	ND		4.6	0.21	mg/Kg		07/24/17 17:04	07/27/17 10:36	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-368425/1-A
Matrix: Solid
Analysis Batch: 369045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		27.7	18.5	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Selenium	ND		3.7	0.37	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Silver	ND		0.55	0.18	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Sodium	ND		129	12.0	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Thallium	ND		5.5	0.28	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Vanadium	ND		0.46	0.10	mg/Kg		07/24/17 17:04	07/27/17 10:36	1
Zinc	1.01	J	1.8	0.59	mg/Kg		07/24/17 17:04	07/27/17 10:36	1

Lab Sample ID: LCSSRM 480-368425/2-A
Matrix: Solid
Analysis Batch: 368988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368425

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8200	9188		mg/Kg		112.1	40.0 - 159.8
Antimony	105	68.55		mg/Kg		65.3	19.6 - 254.3
Arsenic	221	181.4		mg/Kg		82.1	71.0 - 133.5
Barium	428	371.1	^	mg/Kg		86.7	74.3 - 125.5
Beryllium	112	98.01		mg/Kg		87.5	75.0 - 125.0
Cadmium	126	105.8		mg/Kg		84.0	73.3 - 126.2
Calcium	6160	5335		mg/Kg		86.6	73.9 - 126.1
Chromium	74.7	64.17		mg/Kg		85.9	68.5 - 131.3
Cobalt	198	196.8		mg/Kg		99.4	74.7 - 125.8
Copper	83.3	76.78		mg/Kg		92.2	73.8 - 130.9
Iron	14600	13780		mg/Kg		94.4	36.1 - 163.7
Lead	76.9	80.09		mg/Kg		104.2	68.8 - 131.3
Magnesium	3180	2784		mg/Kg		87.5	67.0 - 133.3
Manganese	452	430.5	^	mg/Kg		95.2	76.5 - 123.5
Nickel	178	180.5		mg/Kg		101.4	73.6 - 128.7
Potassium	2820	2907		mg/Kg		103.1	62.1 - 137.9
Selenium	111	90.65		mg/Kg		81.7	65.7 - 134.2
Silver	59.6	48.62		mg/Kg		81.6	66.8 - 133.1
Sodium	643	587.3		mg/Kg		91.3	54.9 - 145.1
Thallium	151	141.3		mg/Kg		93.6	68.2 - 131.1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-368425/2-A
Matrix: Solid
Analysis Batch: 368988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368425

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	150	134.1		mg/Kg		89.4	70.7 - 129.3
Zinc	338	279.8		mg/Kg		82.8	71.9 - 127.8

Lab Sample ID: 480-121411-3 MS
Matrix: Solid
Analysis Batch: 368988

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8590		2360	13500	F1	mg/Kg	☼	209	75 - 125
Antimony	ND		47.2	35.28		mg/Kg	☼	75	75 - 125
Arsenic	3.1		47.2	41.71		mg/Kg	☼	82	75 - 125
Barium	34.6		47.2	88.37	^	mg/Kg	☼	114	75 - 125
Beryllium	0.33		47.2	40.57		mg/Kg	☼	85	75 - 125
Cadmium	0.12	J B	47.2	41.53		mg/Kg	☼	88	75 - 125
Calcium	37400	B	2360	41170	4	mg/Kg	☼	160	75 - 125
Chromium	11.2		47.2	52.31		mg/Kg	☼	87	75 - 125
Cobalt	4.5		47.2	48.94		mg/Kg	☼	94	75 - 125
Copper	10.9		47.2	56.67		mg/Kg	☼	97	75 - 125
Iron	11700		2360	13300	4	mg/Kg	☼	66	75 - 125
Lead	11.7		47.2	56.00		mg/Kg	☼	94	75 - 125
Magnesium	11900		2360	13750	4	mg/Kg	☼	78	75 - 125
Manganese	289	B	47.2	351.5	^ 4	mg/Kg	☼	132	75 - 125
Nickel	12.4		47.2	56.02		mg/Kg	☼	92	75 - 125
Potassium	1470		2360	5069	F1	mg/Kg	☼	153	75 - 125
Selenium	ND		47.2	39.89		mg/Kg	☼	85	75 - 125
Silver	ND		11.8	9.81		mg/Kg	☼	83	75 - 125
Sodium	140	J	2360	2319		mg/Kg	☼	92	75 - 125
Thallium	ND		47.2	42.79		mg/Kg	☼	91	75 - 125
Vanadium	21.0		47.2	66.36		mg/Kg	☼	96	75 - 125
Zinc	38.4	B	47.2	73.11	F1	mg/Kg	☼	74	75 - 125

Lab Sample ID: 480-121411-3 MSD
Matrix: Solid
Analysis Batch: 368988

Client Sample ID: TP-15
Prep Type: Total/NA
Prep Batch: 368425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	8590		2470	15050	F1	mg/Kg	☼	261	75 - 125	11	20
Antimony	ND		49.5	34.12	F1	mg/Kg	☼	69	75 - 125	3	20
Arsenic	3.1		49.5	42.48		mg/Kg	☼	80	75 - 125	2	20
Barium	34.6		49.5	95.38	^	mg/Kg	☼	123	75 - 125	8	20
Beryllium	0.33		49.5	41.66		mg/Kg	☼	84	75 - 125	3	20
Cadmium	0.12	J B	49.5	42.82		mg/Kg	☼	86	75 - 125	3	20
Calcium	37400	B	2470	49840	4	mg/Kg	☼	504	75 - 125	19	20
Chromium	11.2		49.5	53.58		mg/Kg	☼	86	75 - 125	2	20
Cobalt	4.5		49.5	49.54		mg/Kg	☼	91	75 - 125	1	20
Copper	10.9		49.5	57.74		mg/Kg	☼	95	75 - 125	2	20
Iron	11700		2470	13530	4	mg/Kg	☼	72	75 - 125	2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-121411-3 MSD — **Client Sample ID: TP-15**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 368988 — **Prep Batch: 368425**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	11.7		49.5	54.72		mg/Kg	☼	87	75 - 125	2	20
Magnesium	11900		2470	14270	4	mg/Kg	☼	96	75 - 125	4	20
Manganese	289	B	49.5	352.3	^ 4	mg/Kg	☼	127	75 - 125	0	20
Nickel	12.4		49.5	57.36		mg/Kg	☼	91	75 - 125	2	20
Potassium	1470		2470	5811	F1	mg/Kg	☼	176	75 - 125	14	20
Selenium	ND		49.5	40.40		mg/Kg	☼	82	75 - 125	1	20
Silver	ND		12.4	10.07		mg/Kg	☼	81	75 - 125	3	20
Sodium	140	J	2480	2373		mg/Kg	☼	90	75 - 125	2	20
Thallium	ND		49.5	44.30		mg/Kg	☼	90	75 - 125	3	20
Vanadium	21.0		49.5	67.58		mg/Kg	☼	94	75 - 125	2	20
Zinc	38.4	B	49.5	74.18	F1	mg/Kg	☼	72	75 - 125	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-368382/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 368435 — **Prep Batch: 368382**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0079	mg/Kg		07/24/17 12:35	07/24/17 14:47	1

Lab Sample ID: LCDSRM 480-368382/3-A ^10 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 368435 — **Prep Batch: 368382**

Analyte			Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			12.6	11.43		mg/Kg		90.7	44.4 - 128.6	1	20

Lab Sample ID: LCSSRM 480-368382/2-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 368435 — **Prep Batch: 368382**

Analyte			Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury			12.6	11.60		mg/Kg		92.1	44.4 - 128.6

Lab Sample ID: 480-121411-3 MS — **Client Sample ID: TP-15**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 368435 — **Prep Batch: 368382**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.022	J	0.372	0.408		mg/Kg	☼	104	80 - 120

Lab Sample ID: 480-121411-3 MSD — **Client Sample ID: TP-15**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 368435 — **Prep Batch: 368382**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.022	J	0.397	0.435		mg/Kg	☼	104	80 - 120	6	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
W	PS: Post-digestion spike was outside control limits
V	Serial Dilution exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121411-1

GC/MS VOA

Analysis Batch: 368716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	8260C	368757
480-121411-2	TP-09	Total/NA	Solid	8260C	368757
480-121411-3	TP-15	Total/NA	Solid	8260C	368757
480-121411-4	DUP	Total/NA	Solid	8260C	368757
MB 480-368757/2-A	Method Blank	Total/NA	Solid	8260C	368757
LCS 480-368757/1-A	Lab Control Sample	Total/NA	Solid	8260C	368757

Prep Batch: 368757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	5035A_L	
480-121411-2	TP-09	Total/NA	Solid	5035A_L	
480-121411-3	TP-15	Total/NA	Solid	5035A_L	
480-121411-4	DUP	Total/NA	Solid	5035A_L	
MB 480-368757/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-368757/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 368964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-369004/2-A	Method Blank	Total/NA	Solid	8260C	369004
LCS 480-369004/1-A	Lab Control Sample	Total/NA	Solid	8260C	369004
480-121411-3 MS	TP-15	Total/NA	Solid	8260C	369004
480-121411-3 MSD	TP-15	Total/NA	Solid	8260C	369004

Prep Batch: 369004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-369004/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-369004/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-121411-3 MS	TP-15	Total/NA	Solid	5035A_L	
480-121411-3 MSD	TP-15	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 368148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	3550C	
480-121411-2	TP-09	Total/NA	Solid	3550C	
480-121411-3	TP-15	Total/NA	Solid	3550C	
480-121411-4	DUP	Total/NA	Solid	3550C	
MB 480-368148/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-368148/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-121411-3 MS	TP-15	Total/NA	Solid	3550C	
480-121411-3 MSD	TP-15	Total/NA	Solid	3550C	

Analysis Batch: 368383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	8270D	368148
480-121411-2	TP-09	Total/NA	Solid	8270D	368148
480-121411-3	TP-15	Total/NA	Solid	8270D	368148
480-121411-4	DUP	Total/NA	Solid	8270D	368148
MB 480-368148/1-A	Method Blank	Total/NA	Solid	8270D	368148

GC/MS Semi VOA (Continued)

Analysis Batch: 368383 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-368148/2-A	Lab Control Sample	Total/NA	Solid	8270D	368148
480-121411-3 MS	TP-15	Total/NA	Solid	8270D	368148
480-121411-3 MSD	TP-15	Total/NA	Solid	8270D	368148

GC Semi VOA

Prep Batch: 368029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	3550C	
480-121411-2	TP-09	Total/NA	Solid	3550C	
480-121411-3	TP-15	Total/NA	Solid	3550C	
480-121411-4	DUP	Total/NA	Solid	3550C	
MB 480-368029/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-368029/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-121411-3 MS	TP-15	Total/NA	Solid	3550C	
480-121411-3 MSD	TP-15	Total/NA	Solid	3550C	

Analysis Batch: 368232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	8081B	368029
480-121411-2	TP-09	Total/NA	Solid	8081B	368029
480-121411-3	TP-15	Total/NA	Solid	8081B	368029
480-121411-4	DUP	Total/NA	Solid	8081B	368029
MB 480-368029/1-A	Method Blank	Total/NA	Solid	8081B	368029
LCS 480-368029/2-A	Lab Control Sample	Total/NA	Solid	8081B	368029
480-121411-3 MS	TP-15	Total/NA	Solid	8081B	368029
480-121411-3 MSD	TP-15	Total/NA	Solid	8081B	368029

Prep Batch: 368288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	3550C	
480-121411-2	TP-09	Total/NA	Solid	3550C	
480-121411-3	TP-15	Total/NA	Solid	3550C	
MB 480-368288/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-368288/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-121411-3 MS	TP-15	Total/NA	Solid	3550C	
480-121411-3 MSD	TP-15	Total/NA	Solid	3550C	

Analysis Batch: 368358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	8082A	368288
480-121411-2	TP-09	Total/NA	Solid	8082A	368288
480-121411-3	TP-15	Total/NA	Solid	8082A	368288
MB 480-368288/1-A	Method Blank	Total/NA	Solid	8082A	368288
LCS 480-368288/2-A	Lab Control Sample	Total/NA	Solid	8082A	368288
480-121411-3 MS	TP-15	Total/NA	Solid	8082A	368288
480-121411-3 MSD	TP-15	Total/NA	Solid	8082A	368288

GC Semi VOA (Continued)

Prep Batch: 368612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-4	DUP	Total/NA	Solid	3550C	
MB 480-368612/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-368612/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 368775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-4	DUP	Total/NA	Solid	8082A	368612
MB 480-368612/1-A	Method Blank	Total/NA	Solid	8082A	368612
LCS 480-368612/2-A	Lab Control Sample	Total/NA	Solid	8082A	368612

Metals

Prep Batch: 368382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	7471B	
480-121411-2	TP-09	Total/NA	Solid	7471B	
480-121411-3	TP-15	Total/NA	Solid	7471B	
480-121411-4	DUP	Total/NA	Solid	7471B	
MB 480-368382/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-368382/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-368382/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-121411-3 MS	TP-15	Total/NA	Solid	7471B	
480-121411-3 MSD	TP-15	Total/NA	Solid	7471B	

Prep Batch: 368425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	3050B	
480-121411-2	TP-09	Total/NA	Solid	3050B	
480-121411-3	TP-15	Total/NA	Solid	3050B	
480-121411-4	DUP	Total/NA	Solid	3050B	
MB 480-368425/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-368425/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-121411-3 MS	TP-15	Total/NA	Solid	3050B	
480-121411-3 MSD	TP-15	Total/NA	Solid	3050B	

Analysis Batch: 368435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	7471B	368382
480-121411-2	TP-09	Total/NA	Solid	7471B	368382
480-121411-3	TP-15	Total/NA	Solid	7471B	368382
480-121411-4	DUP	Total/NA	Solid	7471B	368382
MB 480-368382/1-A	Method Blank	Total/NA	Solid	7471B	368382
LCDSRM 480-368382/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	368382
LCSSRM 480-368382/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	368382
480-121411-3 MS	TP-15	Total/NA	Solid	7471B	368382
480-121411-3 MSD	TP-15	Total/NA	Solid	7471B	368382

Analysis Batch: 368988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	6010C	368425

Metals (Continued)

Analysis Batch: 368988 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-2	TP-09	Total/NA	Solid	6010C	368425
480-121411-3	TP-15	Total/NA	Solid	6010C	368425
480-121411-4	DUP	Total/NA	Solid	6010C	368425
LCSSRM 480-368425/2-A	Lab Control Sample	Total/NA	Solid	6010C	368425
480-121411-3 MS	TP-15	Total/NA	Solid	6010C	368425
480-121411-3 MSD	TP-15	Total/NA	Solid	6010C	368425

Analysis Batch: 369045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-368425/1-A	Method Blank	Total/NA	Solid	6010C	368425

General Chemistry

Analysis Batch: 368023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121411-1	TP-07	Total/NA	Solid	Moisture	
480-121411-2	TP-09	Total/NA	Solid	Moisture	
480-121411-3	TP-15	Total/NA	Solid	Moisture	
480-121411-4	DUP	Total/NA	Solid	Moisture	
480-121411-3 MS	TP-15	Total/NA	Solid	Moisture	
480-121411-3 MSD	TP-15	Total/NA	Solid	Moisture	

Client Sample ID: TP-07
Date Collected: 07/20/17 09:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	368023	07/21/17 04:48	CSW	TAL BUF

Client Sample ID: TP-07
Date Collected: 07/20/17 09:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-1
Matrix: Solid
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368757	07/26/17 08:56	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368716	07/26/17 14:06	SWO	TAL BUF
Total/NA	Prep	3550C			368148	07/21/17 14:18	SMP	TAL BUF
Total/NA	Analysis	8270D		5	368383	07/24/17 17:12	PJQ	TAL BUF
Total/NA	Prep	3550C			368029	07/21/17 06:42	CAM	TAL BUF
Total/NA	Analysis	8081B		1	368232	07/22/17 15:43	MAN	TAL BUF
Total/NA	Prep	3550C			368288	07/24/17 07:43	BEK	TAL BUF
Total/NA	Analysis	8082A		1	368358	07/25/17 00:03	JMO	TAL BUF
Total/NA	Prep	3050B			368425	07/24/17 17:04	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368988	07/26/17 15:42	LMH	TAL BUF
Total/NA	Prep	7471B			368382	07/24/17 12:35	EMB	TAL BUF
Total/NA	Analysis	7471B		1	368435	07/24/17 15:09	BMB	TAL BUF

Client Sample ID: TP-09
Date Collected: 07/20/17 10:30
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	368023	07/21/17 04:48	CSW	TAL BUF

Client Sample ID: TP-09
Date Collected: 07/20/17 10:30
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-2
Matrix: Solid
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368757	07/26/17 08:56	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368716	07/26/17 14:32	SWO	TAL BUF
Total/NA	Prep	3550C			368148	07/21/17 14:18	SMP	TAL BUF
Total/NA	Analysis	8270D		1	368383	07/24/17 17:38	PJQ	TAL BUF
Total/NA	Prep	3550C			368029	07/21/17 06:42	CAM	TAL BUF
Total/NA	Analysis	8081B		1	368232	07/22/17 16:03	MAN	TAL BUF
Total/NA	Prep	3550C			368288	07/24/17 07:43	BEK	TAL BUF
Total/NA	Analysis	8082A		1	368358	07/25/17 00:19	JMO	TAL BUF
Total/NA	Prep	3050B			368425	07/24/17 17:04	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368988	07/26/17 15:46	LMH	TAL BUF
Total/NA	Prep	7471B			368382	07/24/17 12:35	EMB	TAL BUF

Client Sample ID: TP-09
Date Collected: 07/20/17 10:30
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-2
Matrix: Solid
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	368435	07/24/17 15:11	BMB	TAL BUF

Client Sample ID: TP-15
Date Collected: 07/20/17 15:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	368023	07/21/17 04:48	CSW	TAL BUF

Client Sample ID: TP-15
Date Collected: 07/20/17 15:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-3
Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368757	07/26/17 08:56	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368716	07/26/17 14:58	SWO	TAL BUF
Total/NA	Prep	3550C			368148	07/21/17 14:18	SMP	TAL BUF
Total/NA	Analysis	8270D		5	368383	07/24/17 16:20	PJQ	TAL BUF
Total/NA	Prep	3550C			368029	07/21/17 06:42	CAM	TAL BUF
Total/NA	Analysis	8081B		1	368232	07/22/17 15:23	MAN	TAL BUF
Total/NA	Prep	3550C			368288	07/24/17 07:43	BEK	TAL BUF
Total/NA	Analysis	8082A		1	368358	07/24/17 23:48	JMO	TAL BUF
Total/NA	Prep	3050B			368425	07/24/17 17:04	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368988	07/26/17 15:49	LMH	TAL BUF
Total/NA	Prep	7471B			368382	07/24/17 12:35	EMB	TAL BUF
Total/NA	Analysis	7471B		1	368435	07/24/17 15:12	BMB	TAL BUF

Client Sample ID: DUP
Date Collected: 07/20/17 00:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	368023	07/21/17 04:48	CSW	TAL BUF

Client Sample ID: DUP
Date Collected: 07/20/17 00:00
Date Received: 07/20/17 17:00

Lab Sample ID: 480-121411-4
Matrix: Solid
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368757	07/26/17 08:56	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368716	07/26/17 15:23	SWO	TAL BUF
Total/NA	Prep	3550C			368148	07/21/17 14:18	SMP	TAL BUF
Total/NA	Analysis	8270D		5	368383	07/24/17 18:04	PJQ	TAL BUF

Lab Chronicle

Client: New York State D.E.C. TestAmerica Job ID: 480-121411-1
Project/Site: Nash Rd. Wheatfield #932054

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			368029	07/21/17 06:42	CAM	TAL BUF
Total/NA	Analysis	8081B		1	368232	07/22/17 16:22	MAN	TAL BUF
Total/NA	Prep	3550C			368612	07/25/17 14:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	368775	07/26/17 18:24	JMO	TAL BUF
Total/NA	Prep	3050B			368425	07/24/17 17:04	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368988	07/26/17 16:16	LMH	TAL BUF
Total/NA	Prep	7471B			368382	07/24/17 12:35	EMB	TAL BUF
Total/NA	Analysis	7471B		1	368435	07/24/17 15:16	BMB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C. TestAmerica Job ID: 480-121411-1
Project/Site: Nash Rd. Wheatfield #932054

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
TP-07	480-121411-1	98	95	93
TP-09	480-121411-2	95	94	95
TP-15	480-121411-3	96	94	92
DUP	480-121411-4	96	94	93
	MB 480-368757/2-A	102	94	95
	MB 480-369004/2-A	91	91	99
	LCS 480-368757/1-A	100	98	102
	LCS 480-369004/1-A	91	95	104
TP-15 MS	480-121411-3 MS	75	94	99
TP-15 MSD	480-121411-3 MSD	77	93	102

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6494.D

Lab ID: LCS 480-368757/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	43.7	87	77-121	
1,1,2,2-Tetrachloroethane	50.0	52.7	105	80-120	
1,1,2-Trichloroethane	50.0	50.7	101	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	35.0	70	60-140	
1,1-Dichloroethane	50.0	46.7	93	73-126	
1,1-Dichloroethene	50.0	39.8	80	59-125	
1,2,4-Trichlorobenzene	50.0	46.0	92	64-120	
1,2-Dibromo-3-Chloropropane	50.0	57.0	114	63-124	
1,2-Dibromoethane	50.0	50.1	100	78-120	
1,2-Dichlorobenzene	50.0	47.6	95	75-120	
1,2-Dichloroethane	50.0	49.6	99	77-122	
1,2-Dichloropropane	50.0	46.7	93	75-124	
1,3-Dichlorobenzene	50.0	47.1	94	74-120	
1,4-Dichlorobenzene	50.0	47.2	94	73-120	
2-Hexanone	250	277	111	59-130	
2-Butanone (MEK)	250	280	112	70-134	
4-Methyl-2-pentanone (MIBK)	250	269	108	65-133	
Acetone	250	269	108	61-137	
Benzene	50.0	45.5	91	79-127	
Bromodichloromethane	50.0	52.7	105	80-122	
Bromoform	50.0	49.2	98	68-126	
Bromomethane	50.0	77.9	156	37-149	*
Carbon disulfide	50.0	36.8	74	64-131	
Carbon tetrachloride	50.0	46.1	92	75-135	
Chlorobenzene	50.0	46.3	93	76-124	
Dibromochloromethane	50.0	50.0	100	76-125	
Chloroethane	50.0	72.9	146	69-135	*
Chloroform	50.0	47.2	94	80-120	
Chloromethane	50.0	48.4	97	63-127	
cis-1,2-Dichloroethene	50.0	47.2	94	81-120	
cis-1,3-Dichloropropene	50.0	49.8	100	80-120	
Cyclohexane	50.0	35.6	71	65-120	
Dichlorodifluoromethane	50.0	37.1	74	57-142	
Ethylbenzene	50.0	45.7	91	80-120	
Isopropylbenzene	50.0	44.2	88	72-120	
Methyl acetate	250	262	105	55-136	
Methyl tert-butyl ether	50.0	51.4	103	63-125	
Methylcyclohexane	50.0	34.5	69	60-140	
Methylene Chloride	50.0	50.9	102	61-127	
Styrene	50.0	46.3	93	80-120	
Tetrachloroethene	50.0	40.4	81	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6494.D

Lab ID: LCS 480-368757/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	44.9	90	74-128	
trans-1,2-Dichloroethene	50.0	44.2	88	78-126	
trans-1,3-Dichloropropene	50.0	52.2	104	73-123	
Trichloroethene	50.0	43.7	87	77-129	
Trichlorofluoromethane	50.0	41.1	82	65-146	
Vinyl chloride	50.0	44.3	89	61-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6545.D

Lab ID: LCS 480-369004/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	44.2	88	77-121	
1,1,2,2-Tetrachloroethane	50.0	51.3	103	80-120	
1,1,2-Trichloroethane	50.0	48.2	96	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.1	76	60-140	
1,1-Dichloroethane	50.0	46.8	94	73-126	
1,1-Dichloroethene	50.0	42.4	85	59-125	
1,2,4-Trichlorobenzene	50.0	44.0	88	64-120	
1,2-Dibromo-3-Chloropropane	50.0	49.9	100	63-124	
1,2-Dibromoethane	50.0	48.8	98	78-120	
1,2-Dichlorobenzene	50.0	46.9	94	75-120	
1,2-Dichloroethane	50.0	48.3	97	77-122	
1,2-Dichloropropane	50.0	47.1	94	75-124	
1,3-Dichlorobenzene	50.0	46.9	94	74-120	
1,4-Dichlorobenzene	50.0	47.3	95	73-120	
2-Hexanone	250	252	101	59-130	
2-Butanone (MEK)	250	258	103	70-134	
4-Methyl-2-pentanone (MIBK)	250	248	99	65-133	
Acetone	250	260	104	61-137	
Benzene	50.0	45.8	92	79-127	
Bromodichloromethane	50.0	52.2	104	80-122	
Bromoform	50.0	44.2	88	68-126	
Bromomethane	50.0	70.0	140	37-149	
Carbon disulfide	50.0	37.7	75	64-131	
Carbon tetrachloride	50.0	46.2	92	75-135	
Chlorobenzene	50.0	45.8	92	76-124	
Dibromochloromethane	50.0	47.4	95	76-125	
Chloroethane	50.0	69.3	139	69-135	*
Chloroform	50.0	47.7	95	80-120	
Chloromethane	50.0	46.6	93	63-127	
cis-1,2-Dichloroethene	50.0	47.9	96	81-120	
cis-1,3-Dichloropropene	50.0	48.1	96	80-120	
Cyclohexane	50.0	38.4	77	65-120	
Dichlorodifluoromethane	50.0	35.1	70	57-142	
Ethylbenzene	50.0	46.1	92	80-120	
Isopropylbenzene	50.0	45.0	90	72-120	
Methyl acetate	250	262	105	55-136	
Methyl tert-butyl ether	50.0	48.7	97	63-125	
Methylcyclohexane	50.0	36.9	74	60-140	
Methylene Chloride	50.0	50.6	101	61-127	
Styrene	50.0	46.0	92	80-120	
Tetrachloroethene	50.0	41.0	82	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6545.D

Lab ID: LCS 480-369004/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	45.2	90	74-128	
trans-1,2-Dichloroethene	50.0	45.3	91	78-126	
trans-1,3-Dichloropropene	50.0	50.7	101	73-123	
Trichloroethene	50.0	43.8	88	77-129	
Trichlorofluoromethane	50.0	42.8	86	65-146	
Vinyl chloride	50.0	44.3	89	61-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6564.D

Lab ID: 480-121411-3 MS Client ID: TP-15 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	59.3	ND	52.7	89	77-121	vs
1,1,2,2-Tetrachloroethane	59.3	ND	47.9	81	80-120	vs
1,1,2-Trichloroethane	59.3	ND	49.3	83	78-122	vs
1,1,2-Trichloro-1,2,2-trifluoroethane	59.3	ND	49.2	83	60-140	vs
1,1-Dichloroethane	59.3	ND	54.5	92	73-126	vs
1,1-Dichloroethene	59.3	ND	51.5	87	59-125	vs
1,2,4-Trichlorobenzene	59.3	ND	40.3	68	64-120	vs
1,2-Dibromo-3-Chloropropane	59.3	ND	38.6	65	63-124	vs
1,2-Dibromoethane	59.3	ND	46.3	78	78-120	vs
1,2-Dichlorobenzene	59.3	ND	51.1	86	75-120	vs
1,2-Dichloroethane	59.3	ND	49.9	84	77-122	vs
1,2-Dichloropropane	59.3	ND	53.5	90	75-124	vs
1,3-Dichlorobenzene	59.3	ND	52.9	89	74-120	vs
1,4-Dichlorobenzene	59.3	ND	51.9	87	73-120	vs
2-Hexanone	297	ND	199	67	59-130	vs
2-Butanone (MEK)	297	ND	188	63	70-134	F1 vs
4-Methyl-2-pentanone (MIBK)	297	ND	204	69	65-133	vs
Acetone	297	ND	190	64	61-137	vs
Benzene	59.3	ND	54.8	92	79-127	vs
Bromodichloromethane	59.3	ND	57.4	97	80-122	vs
Bromoform	59.3	ND	41.0	69	68-126	vs
Bromomethane	59.3	ND	101	171	37-149	F1 vs
Carbon disulfide	59.3	ND	44.1	74	64-131	vs
Carbon tetrachloride	59.3	ND	55.8	94	75-135	vs
Chlorobenzene	59.3	ND	51.8	87	76-124	vs
Dibromochloromethane	59.3	ND	48.2	81	76-125	vs
Chloroethane	59.3	ND	95.9	162	69-135	F1 vs
Chloroform	59.3	ND	55.6	94	80-120	vs
Chloromethane	59.3	ND	57.8	97	63-127	vs
cis-1,2-Dichloroethene	59.3	ND	54.7	92	80-120	vs
cis-1,3-Dichloropropene	59.3	ND	50.6	85	80-120	vs
Cyclohexane	59.3	ND	47.2	79	65-120	vs
Dichlorodifluoromethane	59.3	ND	47.6	80	57-142	vs
Ethylbenzene	59.3	ND	54.4	92	80-120	vs
Isopropylbenzene	59.3	ND	55.8	94	72-120	vs
Methyl acetate	297	ND	183	62	55-136	vs
Methyl tert-butyl ether	59.3	ND	47.6	80	63-125	vs
Methylcyclohexane	59.3	ND	43.6	73	60-140	vs
Methylene Chloride	59.3	ND	58.9	99	61-127	vs
Styrene	59.3	ND	51.7	87	80-120	vs
Tetrachloroethene	59.3	ND	48.0	81	74-122	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6564.D

Lab ID: 480-121411-3 MS Client ID: TP-15 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Toluene	59.3	ND	53.7	91	74-128	vs
trans-1,2-Dichloroethene	59.3	ND	53.6	90	78-126	vs
trans-1,3-Dichloropropene	59.3	ND	50.5	85	73-123	vs
Trichloroethene	59.3	ND	51.7	87	77-129	vs
Trichlorofluoromethane	59.3	ND	58.7	99	65-146	vs
Vinyl chloride	59.3	ND	56.4	95	61-133	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6565.D

Lab ID: 480-121411-3 MSD Client ID: TP-15 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	59.9	50.3	84	5	30	77-121	vs
1,1,2,2-Tetrachloroethane	59.9	49.8	83	4	30	80-120	vs
1,1,2-Trichloroethane	59.9	50.7	85	3	30	78-122	vs
1,1,2-Trichloro-1,2,2-trifluoroethane	59.9	44.1	74	11	30	60-140	vs
1,1-Dichloroethane	59.9	53.1	89	2	30	73-126	vs
1,1-Dichloroethene	59.9	47.7	80	8	30	59-125	vs
1,2,4-Trichlorobenzene	59.9	39.2	65	3	30	64-120	vs
1,2-Dibromo-3-Chloropropane	59.9	41.6	69	7	30	63-124	vs
1,2-Dibromoethane	59.9	47.6	79	3	30	78-120	vs
1,2-Dichlorobenzene	59.9	49.8	83	3	30	75-120	vs
1,2-Dichloroethane	59.9	50.3	84	1	30	77-122	vs
1,2-Dichloropropane	59.9	52.1	87	3	30	75-124	vs
1,3-Dichlorobenzene	59.9	50.3	84	5	30	74-120	vs
1,4-Dichlorobenzene	59.9	49.9	83	4	30	73-120	vs
2-Hexanone	300	222	74	11	30	59-130	vs
2-Butanone (MEK)	300	210	70	11	30	70-134	vs
4-Methyl-2-pentanone (MIBK)	300	222	74	8	30	65-133	vs
Acetone	300	200	67	5	30	61-137	vs
Benzene	59.9	52.5	88	4	30	79-127	vs
Bromodichloromethane	59.9	57.6	96	0	30	80-122	vs
Bromoform	59.9	42.5	71	4	30	68-126	vs
Bromomethane	59.9	86.0	144	16	30	37-149	vs
Carbon disulfide	59.9	40.7	68	8	30	64-131	vs
Carbon tetrachloride	59.9	52.4	87	6	30	75-135	vs
Chlorobenzene	59.9	50.8	85	2	30	76-124	vs
Dibromochloromethane	59.9	49.5	83	3	30	76-125	vs
Chloroethane	59.9	76.9	128	22	30	69-135	vs
Chloroform	59.9	53.4	89	4	30	80-120	vs
Chloromethane	59.9	49.6	83	15	30	63-127	vs
cis-1,2-Dichloroethene	59.9	52.6	88	4	30	80-120	vs
cis-1,3-Dichloropropene	59.9	50.6	85	0	30	80-120	vs
Cyclohexane	59.9	43.3	72	9	30	65-120	vs
Dichlorodifluoromethane	59.9	42.6	71	11	30	57-142	vs
Ethylbenzene	59.9	52.2	87	4	30	80-120	vs
Isopropylbenzene	59.9	52.6	88	6	30	72-120	vs
Methyl acetate	300	189	63	3	30	55-136	vs
Methyl tert-butyl ether	59.9	49.1	82	3	30	63-125	vs
Methylcyclohexane	59.9	40.7	68	7	30	60-140	vs
Methylene Chloride	59.9	57.0	95	3	30	61-127	vs
Styrene	59.9	50.7	85	2	30	80-120	vs
Tetrachloroethene	59.9	45.4	76	6	30	74-122	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6565.D

Lab ID: 480-121411-3 MSD Client ID: TP-15 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	59.9	51.7	86	4	30	74-128	vs
trans-1,2-Dichloroethene	59.9	51.0	85	5	30	78-126	vs
trans-1,3-Dichloropropene	59.9	51.3	86	2	30	73-123	vs
Trichloroethene	59.9	50.1	84	3	30	77-129	vs
Trichlorofluoromethane	59.9	50.4	84	15	30	65-146	vs
Vinyl chloride	59.9	47.8	80	17	30	61-133	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab File ID: F6496.D Lab Sample ID: MB 480-368757/2-A

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: HP5973F Date Analyzed: 07/26/2017 11:23

GC Column: ZB-624 (30) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-368757/1-A	F6494.D	07/26/2017 10:33
TP-07	480-121411-1	F6502.D	07/26/2017 14:06
TP-09	480-121411-2	F6503.D	07/26/2017 14:32
TP-15	480-121411-3	F6504.D	07/26/2017 14:58
DUP	480-121411-4	F6505.D	07/26/2017 15:23

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab File ID: F6547.D Lab Sample ID: MB 480-369004/2-A

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: HP5973F Date Analyzed: 07/27/2017 11:47

GC Column: ZB-624 (30) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-369004/1-A	F6545.D	07/27/2017 10:55
TP-15 MS	480-121411-3 MS	F6564.D	07/27/2017 19:12
TP-15 MSD	480-121411-3 MSD	F6565.D	07/27/2017 19:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab File ID: F6324.D BFB Injection Date: 07/20/2017

Instrument ID: HP5973F BFB Injection Time: 10:51

Analysis Batch No.: 367895

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	82.9	
175	5.0 - 9.0 % of mass 174	7.1	(8.6) 1
176	95.0 - 101.0 % of mass 174	79.6	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.7	(7.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-367895/4	F6326.D	07/20/2017	11:43
	IC 480-367895/5	F6327.D	07/20/2017	12:09
	IC 480-367895/6	F6328.D	07/20/2017	12:34
	IC 480-367895/7	F6329.D	07/20/2017	13:00
	ICIS 480-367895/8	F6330.D	07/20/2017	13:25
	IC 480-367895/9	F6331.D	07/20/2017	13:50
	IC 480-367895/10	F6332.D	07/20/2017	14:16

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab File ID: F6491.D BFB Injection Date: 07/26/2017

Instrument ID: HP5973F BFB Injection Time: 08:47

Analysis Batch No.: 368716

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	55.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	78.7	
175	5.0 - 9.0 % of mass 174	5.7	(7.2) 1
176	95.0 - 101.0 % of mass 174	77.1	(98.0) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-368716/3	F6492.D	07/26/2017	09:14
	LCS 480-368757/1-A	F6494.D	07/26/2017	10:33
	MB 480-368757/2-A	F6496.D	07/26/2017	11:23
TP-07	480-121411-1	F6502.D	07/26/2017	14:06
TP-09	480-121411-2	F6503.D	07/26/2017	14:32
TP-15	480-121411-3	F6504.D	07/26/2017	14:58
DUP	480-121411-4	F6505.D	07/26/2017	15:23

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab File ID: F6542.D BFB Injection Date: 07/27/2017

Instrument ID: HP5973F BFB Injection Time: 09:12

Analysis Batch No.: 368964

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.2
75	30.0 - 60.0 % of mass 95	55.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	8.0
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	80.9
175	5.0 - 9.0 % of mass 174	5.7 (7.0) 1
176	95.0 - 101.0 % of mass 174	81.1 (100.3) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-368964/3	F6543.D	07/27/2017	09:37
	LCS 480-369004/1-A	F6545.D	07/27/2017	10:55
	MB 480-369004/2-A	F6547.D	07/27/2017	11:47
TP-15 MS	480-121411-3 MS	F6564.D	07/27/2017	19:12
TP-15 MSD	480-121411-3 MSD	F6565.D	07/27/2017	19:38

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: ICIS 480-367895/8 Date Analyzed: 07/20/2017 13:25

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm)

Lab File ID (Standard): F6330.D Heated Purge: (Y/N) Y

Calibration ID: 30918

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		249699	5.22	513779	8.01	521772	10.38
UPPER LIMIT		499398	5.72	1027558	8.51	1043544	10.88
LOWER LIMIT		124850	4.72	256890	7.51	260886	9.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368716/3		221590	5.22	465158	8.01	457174	10.38
CCVIS 480-368964/3		220045	5.22	451641	8.01	475361	10.38

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: CCVIS 480-368716/3 Date Analyzed: 07/26/2017 09:14

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm)

Lab File ID (Standard): F6492.D Heated Purge: (Y/N) Y

Calibration ID: 30915

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		221590	5.22	465158	8.01	457174	10.38
UPPER LIMIT		443180	5.72	930316	8.51	914348	10.88
LOWER LIMIT		110795	4.72	232579	7.51	228587	9.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-368757/1-A		230568	5.22	473137	8.01	472059	10.38
MB 480-368757/2-A		212535	5.21	456913	8.01	426851	10.38
480-121411-1	TP-07	204203	5.22	434179	8.01	391038	10.38
480-121411-2	TP-09	209398	5.22	439185	8.01	406930	10.38
480-121411-3	TP-15	205960	5.22	440736	8.01	390791	10.38
480-121411-4	DUP	207025	5.22	426935	8.01	383150	10.38

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: CCVIS 480-368964/3 Date Analyzed: 07/27/2017 09:37

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm)

Lab File ID (Standard): F6543.D Heated Purge: (Y/N) Y

Calibration ID: 30915

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		220045	5.22	451641	8.01	475361	10.38
UPPER LIMIT		440090	5.72	903282	8.51	950722	10.88
LOWER LIMIT		110023	4.72	225821	7.51	237681	9.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-369004/1-A		225492	5.22	458664	8.01	455103	10.38
MB 480-369004/2-A		204078	5.22	427734	8.01	400817	10.38
480-121411-3 MS	TP-15 MS	210700	5.22	424238	8.01	393479	10.38
480-121411-3 MSD	TP-15 MSD	216650	5.22	438659	8.01	417984	10.38

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-07 | Lab Sample ID: 480-121411-1

Matrix: Solid | Lab File ID: F6502.D

Analysis Method: 8260C | Date Collected: 07/20/2017 09:00

Sample wt/vol: 5(g) | Date Analyzed: 07/26/2017 14:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 20.9 | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.3	0.46
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.3	1.0
79-00-5	1,1,2-Trichloroethane	ND	vs	6.3	0.82
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.3	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.3	0.77
75-35-4	1,1-Dichloroethene	ND	vs	6.3	0.77
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.3	0.38
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.3	3.2
106-93-4	1,2-Dibromoethane	ND	vs	6.3	0.81
95-50-1	1,2-Dichlorobenzene	ND	vs	6.3	0.49
107-06-2	1,2-Dichloroethane	ND	vs	6.3	0.32
78-87-5	1,2-Dichloropropane	ND	vs	6.3	3.2
541-73-1	1,3-Dichlorobenzene	ND	vs	6.3	0.32
106-46-7	1,4-Dichlorobenzene	ND	vs	6.3	0.88
591-78-6	2-Hexanone	ND	vs	32	3.2
78-93-3	2-Butanone (MEK)	ND	vs	32	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1
67-64-1	Acetone	ND	vs	32	5.3
71-43-2	Benzene	ND	vs	6.3	0.31
75-27-4	Bromodichloromethane	ND	vs	6.3	0.85
75-25-2	Bromoform	ND	vs	6.3	3.2
74-83-9	Bromomethane	ND	* vs	6.3	0.57
75-15-0	Carbon disulfide	ND	vs	6.3	3.2
56-23-5	Carbon tetrachloride	ND	vs	6.3	0.61
108-90-7	Chlorobenzene	ND	vs	6.3	0.83
124-48-1	Dibromochloromethane	ND	vs	6.3	0.81
75-00-3	Chloroethane	ND	* vs	6.3	1.4
67-66-3	Chloroform	ND	vs	6.3	0.39
74-87-3	Chloromethane	ND	vs	6.3	0.38
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.3	0.81
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.3	0.91
110-82-7	Cyclohexane	ND	vs	6.3	0.88
75-71-8	Dichlorodifluoromethane	ND	vs	6.3	0.52
100-41-4	Ethylbenzene	ND	vs	6.3	0.44
98-82-8	Isopropylbenzene	ND	vs	6.3	0.95

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-07 | Lab Sample ID: 480-121411-1

Matrix: Solid | Lab File ID: F6502.D

Analysis Method: 8260C | Date Collected: 07/20/2017 09:00

Sample wt/vol: 5(g) | Date Analyzed: 07/26/2017 14:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 20.9 | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	32	3.8
1634-04-4	Methyl tert-butyl ether	ND	vs	6.3	0.62
108-87-2	Methylcyclohexane	ND	vs	6.3	0.96
75-09-2	Methylene Chloride	ND	vs	6.3	2.9
100-42-5	Styrene	ND	vs	6.3	0.32
127-18-4	Tetrachloroethene	ND	vs	6.3	0.85
108-88-3	Toluene	ND	vs	6.3	0.48
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.3	0.65
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.3	2.8
79-01-6	Trichloroethene	ND	vs	6.3	1.4
75-69-4	Trichlorofluoromethane	ND	vs	6.3	0.60
75-01-4	Vinyl chloride	ND	vs	6.3	0.77
1330-20-7	Xylenes, Total	ND	vs	13	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-126
2037-26-5	Toluene-d8 (Surr)	95		71-125
460-00-4	4-Bromofluorobenzene (Surr)	93		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6502.D
Lims ID: 480-121411-D-1-A
Client ID: TP-07
Sample Type: Client
Inject. Date: 26-Jul-2017 14:06:30 ALS Bottle#: 6 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121411-D-1-A
Misc. Info.: 480-0064328-013
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 14:28:36 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 26-Jul-2017 14:29:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	204203	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	434179	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	391038	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.972	0.006	0	169566	48.9	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	969225	47.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	90	321782	46.3	
10 Dichlorodifluoromethane	85		1.827				ND	
12 Chloromethane	50		1.948				ND	
13 Vinyl chloride	62		2.058				ND	
14 Bromomethane	94		2.344				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.599				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.970				ND	
22 1,1-Dichloroethene	96		2.988				ND	
23 Acetone	43		3.043				ND	
26 Carbon disulfide	76		3.195				ND	
27 Methyl acetate	43		3.256				ND	
30 Methylene Chloride	84	3.378	3.372	0.006	92	13248	1.01	
32 Methyl tert-butyl ether	73		3.518				ND	
34 trans-1,2-Dichloroethene	96		3.548				ND	
39 1,1-Dichloroethane	63		3.877				ND	
43 2-Butanone (MEK)	43		4.309				ND	
45 cis-1,2-Dichloroethene	96		4.321				ND	
50 Chloroform	83		4.558				ND	
51 1,1,1-Trichloroethane	97		4.704				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.033				ND	
62 Trichloroethene	95		5.513				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.732				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.864				ND	
79 1,1,2-Trichloroethane	83		7.064				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.226				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.944				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.398				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

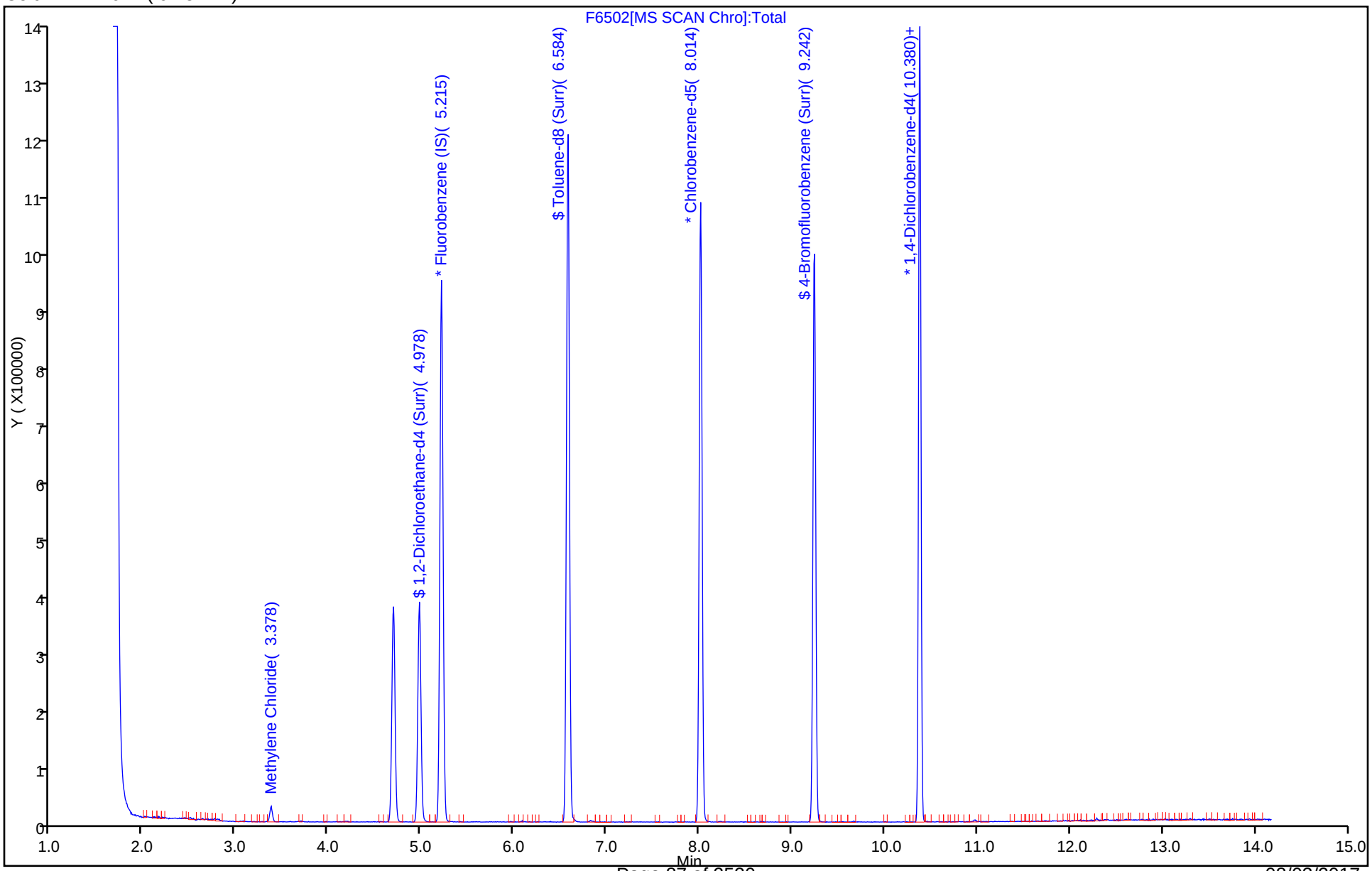
Report Date: 26-Jul-2017 14:29:31 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6502.D

Injection Date:	26-Jul-2017 14:06:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121411-D-1-A	Lab Sample ID:	480-121411-1	Worklist Smp#:	13
Client ID:	TP-07				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-09 | Lab Sample ID: 480-121411-2

Matrix: Solid | Lab File ID: F6503.D

Analysis Method: 8260C | Date Collected: 07/20/2017 10:30

Sample wt/vol: 5.01(g) | Date Analyzed: 07/26/2017 14:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.7 | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.1	0.44
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.1	0.98
79-00-5	1,1,2-Trichloroethane	ND	vs	6.1	0.79
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.1	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.1	0.74
75-35-4	1,1-Dichloroethene	ND	vs	6.1	0.74
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.1	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.1	3.0
106-93-4	1,2-Dibromoethane	ND	vs	6.1	0.78
95-50-1	1,2-Dichlorobenzene	ND	vs	6.1	0.47
107-06-2	1,2-Dichloroethane	ND	vs	6.1	0.30
78-87-5	1,2-Dichloropropane	ND	vs	6.1	3.0
541-73-1	1,3-Dichlorobenzene	ND	vs	6.1	0.31
106-46-7	1,4-Dichlorobenzene	ND	vs	6.1	0.85
591-78-6	2-Hexanone	ND	vs	30	3.0
78-93-3	2-Butanone (MEK)	ND	vs	30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0
67-64-1	Acetone	ND	vs	30	5.1
71-43-2	Benzene	ND	vs	6.1	0.30
75-27-4	Bromodichloromethane	ND	vs	6.1	0.81
75-25-2	Bromoform	ND	vs	6.1	3.0
74-83-9	Bromomethane	ND	* vs	6.1	0.55
75-15-0	Carbon disulfide	ND	vs	6.1	3.0
56-23-5	Carbon tetrachloride	ND	vs	6.1	0.59
108-90-7	Chlorobenzene	ND	vs	6.1	0.80
124-48-1	Dibromochloromethane	ND	vs	6.1	0.78
75-00-3	Chloroethane	ND	* vs	6.1	1.4
67-66-3	Chloroform	ND	vs	6.1	0.37
74-87-3	Chloromethane	ND	vs	6.1	0.37
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.1	0.78
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.1	0.87
110-82-7	Cyclohexane	ND	vs	6.1	0.85
75-71-8	Dichlorodifluoromethane	ND	vs	6.1	0.50
100-41-4	Ethylbenzene	ND	vs	6.1	0.42
98-82-8	Isopropylbenzene	ND	vs	6.1	0.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-09 | Lab Sample ID: 480-121411-2

Matrix: Solid | Lab File ID: F6503.D

Analysis Method: 8260C | Date Collected: 07/20/2017 10:30

Sample wt/vol: 5.01(g) | Date Analyzed: 07/26/2017 14:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.7 | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	30	3.7
1634-04-4	Methyl tert-butyl ether	ND	vs	6.1	0.60
108-87-2	Methylcyclohexane	ND	vs	6.1	0.92
75-09-2	Methylene Chloride	ND	vs	6.1	2.8
100-42-5	Styrene	ND	vs	6.1	0.30
127-18-4	Tetrachloroethene	ND	vs	6.1	0.81
108-88-3	Toluene	ND	vs	6.1	0.46
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.1	0.63
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.1	2.7
79-01-6	Trichloroethene	ND	vs	6.1	1.3
75-69-4	Trichlorofluoromethane	ND	vs	6.1	0.57
75-01-4	Vinyl chloride	ND	vs	6.1	0.74
1330-20-7	Xylenes, Total	ND	vs	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		64-126
2037-26-5	Toluene-d8 (Surr)	94		71-125
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6503.D
Lims ID: 480-121411-D-2-A
Client ID: TP-09
Sample Type: Client
Inject. Date: 26-Jul-2017 14:32:30 ALS Bottle#: 7 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121411-D-2-A
Misc. Info.: 480-0064328-014
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 15:44:31 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 26-Jul-2017 15:44:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	209398	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	439185	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	406930	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.972	0.006	0	168972	47.5	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	971252	46.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	86	334246	47.6	
10 Dichlorodifluoromethane	85		1.827				ND	
12 Chloromethane	50		1.948				ND	
13 Vinyl chloride	62		2.058				ND	
14 Bromomethane	94		2.344				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.599				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.970				ND	
22 1,1-Dichloroethene	96		2.988				ND	
23 Acetone	43		3.043				ND	
26 Carbon disulfide	76		3.195				ND	
27 Methyl acetate	43		3.256				ND	
30 Methylene Chloride	84		3.372				ND	
32 Methyl tert-butyl ether	73		3.518				ND	
34 trans-1,2-Dichloroethene	96		3.548				ND	
39 1,1-Dichloroethane	63		3.877				ND	
43 2-Butanone (MEK)	43		4.309				ND	
45 cis-1,2-Dichloroethene	96		4.321				ND	
50 Chloroform	83		4.558				ND	
51 1,1,1-Trichloroethane	97		4.704				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.033				ND	
62 Trichloroethene	95		5.513				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.732				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.864				ND	
79 1,1,2-Trichloroethane	83		7.064				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.226				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.944				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.398				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

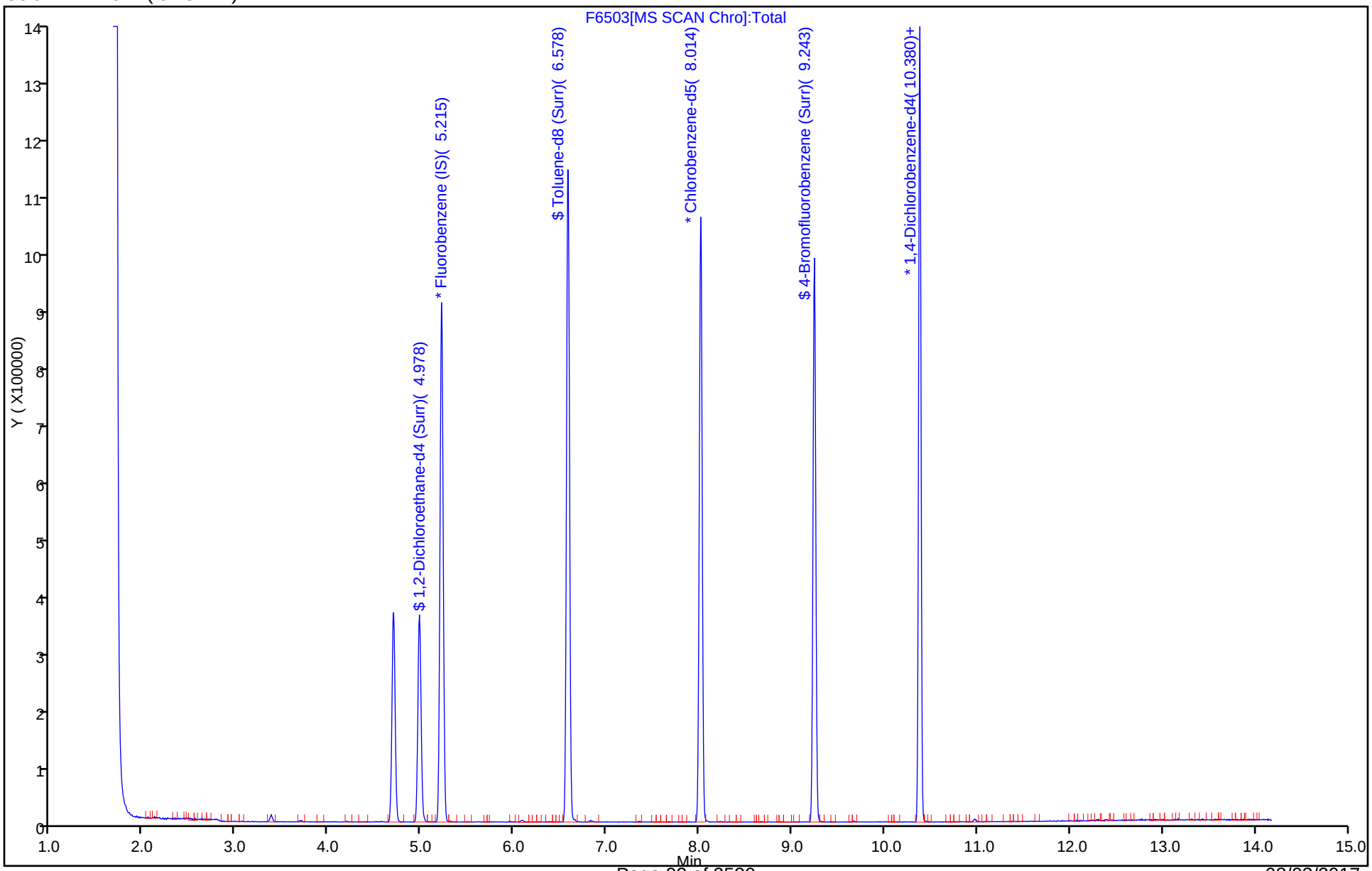
Report Date: 26-Jul-2017 15:44:31 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6503.D

Injection Date:	26-Jul-2017 14:32:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121411-D-2-A	Lab Sample ID:	480-121411-2	Worklist Smp#:	14
Client ID:	TP-09				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 | Lab Sample ID: 480-121411-3

Matrix: Solid | Lab File ID: F6504.D

Analysis Method: 8260C | Date Collected: 07/20/2017 15:00

Sample wt/vol: 5.09(g) | Date Analyzed: 07/26/2017 14:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 16.6 | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	5.9	0.43
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.95
79-00-5	1,1,2-Trichloroethane	ND	vs	5.9	0.77
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.3
75-34-3	1,1-Dichloroethane	ND	vs	5.9	0.72
75-35-4	1,1-Dichloroethene	ND	vs	5.9	0.72
120-82-1	1,2,4-Trichlorobenzene	ND	vs	5.9	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	5.9	2.9
106-93-4	1,2-Dibromoethane	ND	vs	5.9	0.76
95-50-1	1,2-Dichlorobenzene	ND	vs	5.9	0.46
107-06-2	1,2-Dichloroethane	ND	vs	5.9	0.30
78-87-5	1,2-Dichloropropane	ND	vs	5.9	2.9
541-73-1	1,3-Dichlorobenzene	ND	vs	5.9	0.30
106-46-7	1,4-Dichlorobenzene	ND	vs	5.9	0.82
591-78-6	2-Hexanone	ND	vs	29	2.9
78-93-3	2-Butanone (MEK)	ND	vs F1	29	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9
67-64-1	Acetone	ND	vs	29	5.0
71-43-2	Benzene	ND	vs	5.9	0.29
75-27-4	Bromodichloromethane	ND	vs	5.9	0.79
75-25-2	Bromoform	ND	vs	5.9	2.9
74-83-9	Bromomethane	ND	vs F1 *	5.9	0.53
75-15-0	Carbon disulfide	ND	vs	5.9	2.9
56-23-5	Carbon tetrachloride	ND	vs	5.9	0.57
108-90-7	Chlorobenzene	ND	vs	5.9	0.78
124-48-1	Dibromochloromethane	ND	vs	5.9	0.75
75-00-3	Chloroethane	ND	vs F1 *	5.9	1.3
67-66-3	Chloroform	ND	vs	5.9	0.36
74-87-3	Chloromethane	ND	vs	5.9	0.36
156-59-2	cis-1,2-Dichloroethene	ND	vs	5.9	0.75
10061-01-5	cis-1,3-Dichloropropene	ND	vs	5.9	0.85
110-82-7	Cyclohexane	ND	vs	5.9	0.82
75-71-8	Dichlorodifluoromethane	ND	vs	5.9	0.49
100-41-4	Ethylbenzene	ND	vs	5.9	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 | Lab Sample ID: 480-121411-3

Matrix: Solid | Lab File ID: F6504.D

Analysis Method: 8260C | Date Collected: 07/20/2017 15:00

Sample wt/vol: 5.09(g) | Date Analyzed: 07/26/2017 14:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 16.6 | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND	vs	5.9	0.89
79-20-9	Methyl acetate	ND	vs	29	3.6
1634-04-4	Methyl tert-butyl ether	ND	vs	5.9	0.58
108-87-2	Methylcyclohexane	ND	vs	5.9	0.89
75-09-2	Methylene Chloride	ND	vs	5.9	2.7
100-42-5	Styrene	ND	vs	5.9	0.29
127-18-4	Tetrachloroethene	ND	vs	5.9	0.79
108-88-3	Toluene	ND	vs	5.9	0.45
156-60-5	trans-1,2-Dichloroethene	ND	vs	5.9	0.61
10061-02-6	trans-1,3-Dichloropropene	ND	vs	5.9	2.6
79-01-6	Trichloroethene	ND	vs	5.9	1.3
75-69-4	Trichlorofluoromethane	ND	vs	5.9	0.56
75-01-4	Vinyl chloride	ND	vs	5.9	0.72
1330-20-7	Xylenes, Total	ND	vs	12	0.99

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-126
2037-26-5	Toluene-d8 (Surr)	94		71-125
460-00-4	4-Bromofluorobenzene (Surr)	92		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6504.D
Lims ID: 480-121411-D-3-A
Client ID: TP-15
Sample Type: Client
Inject. Date: 26-Jul-2017 14:58:30 ALS Bottle#: 8 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121411-D-3-A
Misc. Info.: 480-0064328-015
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 15:44:31 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 26-Jul-2017 15:45:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	205960	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	440736	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	97	390791	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.972	0.000	0	167426	47.8	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	975370	46.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	87	324962	46.1	
10 Dichlorodifluoromethane	85		1.827				ND	
12 Chloromethane	50		1.948				ND	
13 Vinyl chloride	62		2.058				ND	
14 Bromomethane	94		2.344				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.599				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.970				ND	
22 1,1-Dichloroethene	96		2.988				ND	
23 Acetone	43		3.043				ND	
26 Carbon disulfide	76		3.195				ND	
27 Methyl acetate	43		3.256				ND	
30 Methylene Chloride	84	3.372	3.372	0.000	93	14785	1.27	
32 Methyl tert-butyl ether	73		3.518				ND	
34 trans-1,2-Dichloroethene	96		3.548				ND	
39 1,1-Dichloroethane	63		3.877				ND	
43 2-Butanone (MEK)	43		4.309				ND	
45 cis-1,2-Dichloroethene	96		4.321				ND	
50 Chloroform	83		4.558				ND	
51 1,1,1-Trichloroethane	97		4.704				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.033				ND	
62 Trichloroethene	95		5.513				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.732				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92	6.639	6.645	-0.006	95	4851	0.3327	
77 trans-1,3-Dichloropropene	75		6.864				ND	
79 1,1,2-Trichloroethane	83		7.064				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.226				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.944				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.398				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

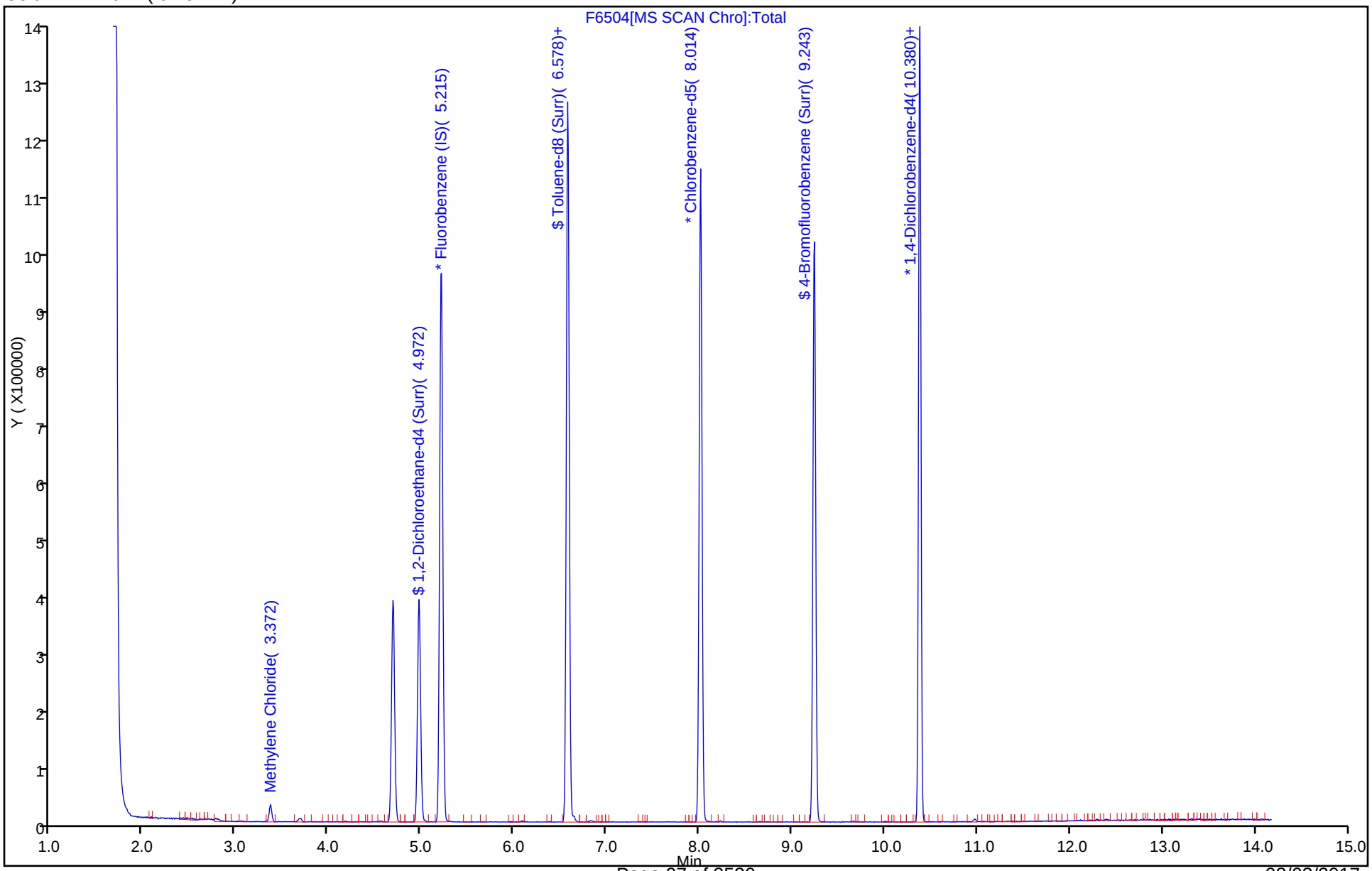
Report Date: 26-Jul-2017 15:45:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6504.D

Injection Date:	26-Jul-2017 14:58:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121411-D-3-A	Lab Sample ID:	480-121411-3	Worklist Smp#:	15
Client ID:	TP-15				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121411-4

Matrix: Solid | Lab File ID: F6505.D

Analysis Method: 8260C | Date Collected: 07/20/2017 00:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/26/2017 15:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 21.4 | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.3	0.46
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.3	1.0
79-00-5	1,1,2-Trichloroethane	ND	vs	6.3	0.82
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.3	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.3	0.77
75-35-4	1,1-Dichloroethene	ND	vs	6.3	0.78
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.3	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.3	3.2
106-93-4	1,2-Dibromoethane	ND	vs	6.3	0.81
95-50-1	1,2-Dichlorobenzene	ND	vs	6.3	0.50
107-06-2	1,2-Dichloroethane	ND	vs	6.3	0.32
78-87-5	1,2-Dichloropropane	ND	vs	6.3	3.2
541-73-1	1,3-Dichlorobenzene	ND	vs	6.3	0.33
106-46-7	1,4-Dichlorobenzene	ND	vs	6.3	0.89
591-78-6	2-Hexanone	ND	vs	32	3.2
78-93-3	2-Butanone (MEK)	ND	vs	32	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1
67-64-1	Acetone	ND	vs	32	5.3
71-43-2	Benzene	ND	vs	6.3	0.31
75-27-4	Bromodichloromethane	ND	vs	6.3	0.85
75-25-2	Bromoform	ND	vs	6.3	3.2
74-83-9	Bromomethane	ND	* vs	6.3	0.57
75-15-0	Carbon disulfide	ND	vs	6.3	3.2
56-23-5	Carbon tetrachloride	ND	vs	6.3	0.61
108-90-7	Chlorobenzene	ND	vs	6.3	0.84
124-48-1	Dibromochloromethane	ND	vs	6.3	0.81
75-00-3	Chloroethane	ND	* vs	6.3	1.4
67-66-3	Chloroform	ND	vs	6.3	0.39
74-87-3	Chloromethane	ND	vs	6.3	0.38
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.3	0.81
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.3	0.91
110-82-7	Cyclohexane	ND	vs	6.3	0.89
75-71-8	Dichlorodifluoromethane	ND	vs	6.3	0.52
100-41-4	Ethylbenzene	ND	vs	6.3	0.44
98-82-8	Isopropylbenzene	ND	vs	6.3	0.96

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121411-4

Matrix: Solid | Lab File ID: F6505.D

Analysis Method: 8260C | Date Collected: 07/20/2017 00:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/26/2017 15:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 21.4 | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	32	3.8
1634-04-4	Methyl tert-butyl ether	ND	vs	6.3	0.62
108-87-2	Methylcyclohexane	ND	vs	6.3	0.96
75-09-2	Methylene Chloride	ND	vs	6.3	2.9
100-42-5	Styrene	ND	vs	6.3	0.32
127-18-4	Tetrachloroethene	ND	vs	6.3	0.85
108-88-3	Toluene	ND	vs	6.3	0.48
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.3	0.65
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.3	2.8
79-01-6	Trichloroethene	ND	vs	6.3	1.4
75-69-4	Trichlorofluoromethane	ND	vs	6.3	0.60
75-01-4	Vinyl chloride	ND	vs	6.3	0.77
1330-20-7	Xylenes, Total	ND	vs	13	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-126
2037-26-5	Toluene-d8 (Surr)	94		71-125
460-00-4	4-Bromofluorobenzene (Surr)	93		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6505.D
Lims ID: 480-121411-D-4-A
Client ID: DUP
Sample Type: Client
Inject. Date: 26-Jul-2017 15:23:30 ALS Bottle#: 9 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121411-D-4-A
Misc. Info.: 480-0064328-016
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 15:44:31 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 26-Jul-2017 15:45:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	207025	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	426935	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	97	383150	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.972	0.000	0	169593	48.2	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	943240	46.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	87	317020	46.4	
10 Dichlorodifluoromethane	85		1.827				ND	
12 Chloromethane	50		1.948				ND	
13 Vinyl chloride	62		2.058				ND	
14 Bromomethane	94		2.344				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.599				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.970				ND	
22 1,1-Dichloroethene	96		2.988				ND	
23 Acetone	43		3.043				ND	
26 Carbon disulfide	76		3.195				ND	
27 Methyl acetate	43		3.256				ND	
30 Methylene Chloride	84	3.372	3.372	0.000	90	9529	0.3081	
32 Methyl tert-butyl ether	73		3.518				ND	
34 trans-1,2-Dichloroethene	96		3.548				ND	
39 1,1-Dichloroethane	63		3.877				ND	
43 2-Butanone (MEK)	43		4.309				ND	
45 cis-1,2-Dichloroethene	96		4.321				ND	
50 Chloroform	83		4.558				ND	
51 1,1,1-Trichloroethane	97		4.704				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.033				ND	
62 Trichloroethene	95		5.513				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.732				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.864				ND	
79 1,1,2-Trichloroethane	83		7.064				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.226				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.944				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.398				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

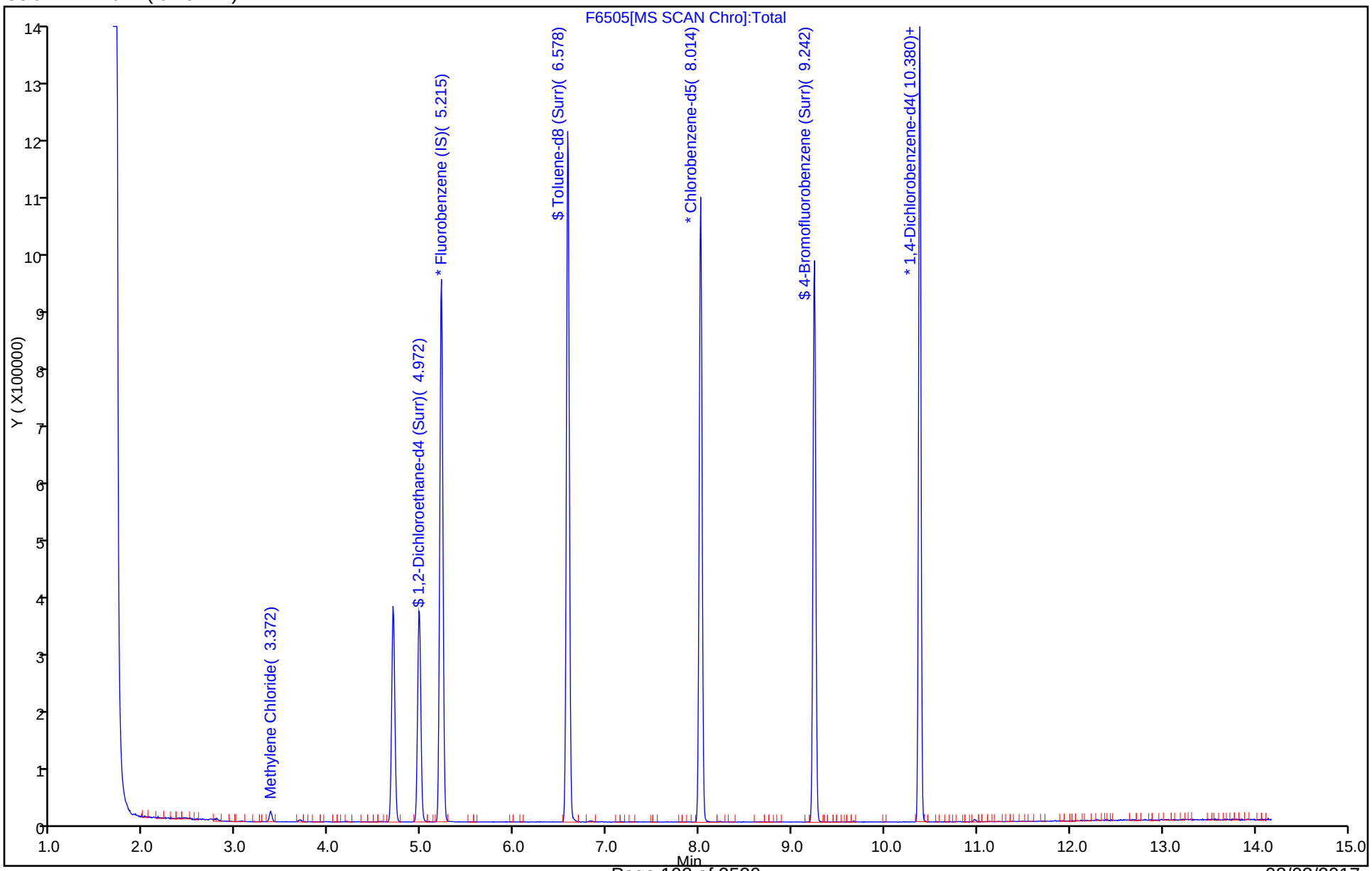
Report Date: 26-Jul-2017 15:45:36 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6505.D

Injection Date:	26-Jul-2017 15:23:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121411-D-4-A	Lab Sample ID:	480-121411-4	Worklist Smp#:	16
Client ID:	DUP				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-367895/4	F6326.D
Level 2	IC 480-367895/5	F6327.D
Level 3	IC 480-367895/6	F6328.D
Level 4	IC 480-367895/7	F6329.D
Level 5	ICIS 480-367895/8	F6330.D
Level 6	IC 480-367895/9	F6331.D
Level 7	IC 480-367895/10	F6332.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.6637 1.4881	1.5915 1.4183	1.5955	1.5835	1.5288	Ave		1.5528			0.1000	5.2		20.0			
Chloromethane	1.4312 1.2153	1.4242 1.1566	1.3498	1.3016	1.2472	Ave		1.3037			0.1000	8.0		20.0			
Vinyl chloride	1.3275 1.1863	1.2729 1.1246	1.3050	1.2499	1.2079	Ave		1.2391			0.1000	5.7		20.0			
Butadiene	1.2369 1.0283	1.2036 0.9936	1.1703	1.1297	1.0647	Ave		1.1182				8.2		20.0			
Bromomethane	+++++ 0.4185	0.4894 0.4187	0.4626	0.4209	0.4062	Ave		0.4360			0.1000	7.5		20.0			
Chloroethane	0.6242 0.3834	0.5820 0.3796	0.4026	0.3878	0.3769	Lin1	0.6658	0.3734			0.1000				0.9990		0.9900
Dichlorofluoromethane	1.6185 1.3467	1.6191 1.3229	1.4976	1.4227	1.3510	Ave		1.4541				8.7		20.0			
Trichlorofluoromethane	1.7134 1.5169	1.7480 1.4893	1.6556	1.5763	1.5178	Ave		1.6025			0.1000	6.5		20.0			
Ethyl ether	0.8769 0.7820	0.8251 0.7776	0.8120	0.8690	0.8387	Ave		0.8259				4.7		20.0			
Acrolein	0.2273 0.1956	0.2098 0.1850	0.2142	0.2047	0.2086	Ave		0.2065				6.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3964 1.2824	1.3285 1.2563	1.3769	1.4099	1.3241	Ave		1.3392			0.1000	4.3		20.0			
1,1-Dichloroethene	1.2871 1.1665	1.1662 1.1225	1.2588	1.2874	1.1994	Ave		1.2126			0.1000	5.4		20.0			
Acetone	+++++ 0.4171	0.5293 0.4036	0.4458	0.4670	0.4630	Ave		0.4543			0.1000	9.8		20.0			
Iodomethane	2.7399 2.4146	2.4808 2.3191	2.5806	2.5681	2.4682	Ave		2.5102				5.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	+++++ 3.9527	5.2686 3.7345	4.6922	4.4988	4.1469	Ave		4.3823			0.1000	12.7		20.0			
Methyl acetate	0.9636 0.8442	0.9323 0.7754	0.8886	0.8840	0.9211	Ave		0.8870			0.1000	7.0		20.0			
Allyl chloride	+++++ 1.8873	2.1730 1.7696	2.0840	2.0864	1.9582	Ave		1.9931				7.5		20.0			
Methylene Chloride	2.0346 1.3797	1.6638 1.3245	1.5336	1.5092	1.4423	Lin1	1.8874	1.3437			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1398 0.1534	0.1544 0.1493	0.1498	0.1478	0.1659	Ave		0.1515				5.2		20.0			
Methyl tert-butyl ether	4.0931 3.9719	4.0344 3.7965	4.0740	4.1676	4.1935	Ave		4.0473			0.1000	3.3		20.0			
trans-1,2-Dichloroethene	1.5156 1.3143	1.4394 1.2427	1.4409	1.4204	1.3537	Ave		1.3896			0.1000	6.6		20.0			
Acrylonitrile	0.4601 0.4168	0.4596 0.3852	0.4407	0.4433	0.4573	Ave		0.4376				6.3		20.0			
Hexane	+++++ 1.8997	2.0434 1.7957	2.0521	2.0768	1.9738	Ave		1.9736				5.5		20.0			
Vinyl acetate	2.1922 2.1429	2.1731 2.0070	2.1866	2.2534	2.2767	Ave		2.1760				4.0		20.0			
1,1-Dichloroethane	2.6442 2.3225	2.4637 2.2176	2.4762	2.5020	2.3924	Ave		2.4312			0.2000	5.6		20.0			
2,2-Dichloropropane	2.2013 2.0932	2.0469 2.0010	2.1991	2.1879	2.1373	Ave		2.1238				3.7		20.0			
2-Butanone (MEK)	0.5465 0.5809	0.5749 0.5352	0.5941	0.5871	0.6345	Ave		0.5790			0.1000	5.6		20.0			
cis-1,2-Dichloroethene	1.6288 1.4776	1.5448 1.4094	1.5602	1.5927	1.5389	Ave		1.5361			0.1000	4.7		20.0			
Chlorobromomethane	0.7242 0.7252	0.7516 0.7052	0.7210	0.7456	0.7382	Ave		0.7302				2.2		20.0			
Tetrahydrofuran	0.3601 0.3627	0.3747 0.3378	0.3649	0.3547	0.3889	Ave		0.3634				4.4		20.0			
Chloroform	2.7848 2.4680	2.6058 2.3554	2.5913	2.6195	2.5122	Ave		2.5624			0.2000	5.3		20.0			
1,1,1-Trichloroethane	2.2970 2.2067	2.1807 2.1337	2.2483	2.2534	2.2186	Ave		2.2198			0.1000	2.4		20.0			
Cyclohexane	+++++ 2.0752	2.2724 1.9544	2.2324	2.2628	2.1294	Ave		2.1544			0.1000	5.8		20.0			
1,1-Dichloropropene	+++++ 1.8309	1.9142 1.7197	1.9395	1.9498	1.8729	Ave		1.8712				4.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	1.6195 1.8329	1.5157 1.8370	1.6099	1.6835	1.7665	Ave		1.6950			0.1000	7.2		20.0			
Isobutyl alcohol	0.0579 0.0613	0.0556 0.0590	0.0551	0.0574	0.0661	Ave		0.0589				6.4		20.0			
Benzene	5.6858 4.9218	5.2573 4.5929	5.4022	5.3155	5.1201	Ave		5.1851			0.5000	6.8		20.0			
1,2-Dichloroethane	2.3581 2.0715	2.1833 1.9723	2.1446	2.1967	2.1605	Ave		2.1553			0.1000	5.5		20.0			
n-Heptane	+++++ 1.8516	2.0755 1.7372	2.0189	2.0846	1.9163	Ave		1.9474				7.1		20.0			
Trichloroethene	1.5575 1.3943	1.4421 1.3471	1.4775	1.4610	1.4232	Ave		1.4432			0.2000	4.6		20.0			
Methylcyclohexane	2.7488 2.3437	2.3679 2.2259	2.5216	2.5096	2.4123	Ave		2.4471			0.1000	6.8		20.0			
1,2-Dichloropropane	1.3606 1.2641	1.2664 1.2239	1.2745	1.3316	1.2825	Ave		1.2862			0.1000	3.5		20.0			
1,4-Dioxane	0.0028 0.0073	0.0043 0.0073	0.0064	0.0074	0.0079	Lin1	-0.228	0.0075							0.9980		0.9900
Dibromomethane	0.9136 0.8875	0.8747 0.8501	0.9016	0.9120	0.9057	Ave		0.8921			0.1000	2.6		20.0			
Bromodichloromethane	1.4490 1.7755	1.4867 1.7806	1.5388	1.6740	1.7170	Ave		1.6317			0.2000	8.5		20.0			
2-Chloroethyl vinyl ether	0.7570 0.7638	0.7163 0.7361	0.7445	0.7498	0.7944	Ave		0.7517				3.2		20.0			
cis-1,3-Dichloropropene	1.9925 2.1996	1.9847 2.1314	2.0107	2.1288	2.2149	Ave		2.0947			0.2000	4.7		20.0			
4-Methyl-2-pentanone (MIBK)	0.5810 0.5589	0.5806 0.5024	0.5800	0.5854	0.6148	Ave		0.5719			0.1000	6.1		20.0			
Toluene	+++++ 1.5859	1.7966 1.5160	1.6926	1.7063	1.6269	Ave		1.6540			0.4000	6.0		20.0			
trans-1,3-Dichloropropene	0.8572 0.9963	0.8128 0.9754	0.8857	0.9607	0.9873	Ave		0.9251			0.1000	7.8		20.0			
Ethyl methacrylate	0.7752 0.8296	0.7521 0.7997	0.7856	0.8281	0.8507	Ave		0.8030				4.3		20.0			
1,1,2-Trichloroethane	0.4759 0.4675	0.4570 0.4547	0.4699	0.4804	0.4780	Ave		0.4691			0.1000	2.2		20.0			
Tetrachloroethene	0.8058 0.7321	0.7596 0.7085	0.7546	0.7696	0.7512	Ave		0.7545			0.2000	4.0		20.0			
1,3-Dichloropropane	1.0724 0.9675	0.9595 0.9271	0.9779	1.0239	1.0054	Ave		0.9905				4.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.4023 0.4087	0.4233 0.3669	0.4198	0.4215	0.4493	Ave		0.4131			0.1000	6.1		20.0			
Dibromochloromethane	+++++ 0.6354	0.4031 0.6673	0.4402	0.5200	0.5888	Lin1	-1.840	0.6605			0.1000				0.9980		0.9900
1,2-Dibromoethane	0.5851 0.5926	0.5431 0.5761	0.5622	0.5879	0.5904	Ave		0.5768				3.1		20.0			
Chlorobenzene	1.9705 1.7563	1.8282 1.6771	1.8307	1.8661	1.7874	Ave		1.8166			0.5000	5.0		20.0			
Ethylbenzene	+++++ 2.9081	3.1700 2.6429	3.1661	3.2038	3.0365	Ave		3.0212			0.1000	7.1		20.0			
1,1,1,2-Tetrachloroethane	0.5199 0.6557	0.5087 0.6555	0.5348	0.5970	0.6345	Ave		0.5866				11.0		20.0			
m,p-Xylene	+++++ 1.1966	1.2445 1.1431	1.2474	1.2587	1.2249	Ave		1.2192			0.1000	3.5		20.0			
o-Xylene	1.2913 1.1543	1.1827 1.1181	1.1898	1.2307	1.1888	Ave		1.1937			0.3000	4.6		20.0			
Styrene	+++++ 1.9880	2.0666 1.8844	2.0811	2.1281	2.0428	Ave		2.0318			0.3000	4.2		20.0			
Bromoform	+++++ 0.4107	0.1981 0.4462	0.2298	0.2751	0.3539	Lin1	-1.817	0.4356			0.1000				0.9930		0.9900
Isopropylbenzene	3.3922 2.8746	3.1859 2.6502	3.1836	3.1495	3.0125	Ave		3.0641			0.1000	7.9		20.0			
1,1,2,2-Tetrachloroethane	0.7182 0.6981	0.7094 0.6572	0.7220	0.7206	0.7493	Ave		0.7107			0.3000	4.0		20.0			
Bromobenzene	0.8700 0.8004	0.8465 0.7884	0.8399	0.8504	0.8324	Ave		0.8326				3.5		20.0			
trans-1,4-Dichloro-2-butene	0.2074 0.2292	0.2211 0.2143	0.2088	0.2187	0.2391	Ave		0.2198				5.1		20.0			
N-Propylbenzene	4.0971 3.2490	3.7715 2.8837	3.7617	3.7114	3.5319	Ave		3.5723				11.1		20.0			
1,2,3-Trichloropropane	0.2586 0.2293	0.2530 0.2195	0.2414	0.2396	0.2491	Ave		0.2415				5.7		20.0			
2-Chlorotoluene	0.7957 0.7039	0.7326 0.6825	0.7537	0.7414	0.7265	Ave		0.7337				4.9		20.0			
1,3,5-Trimethylbenzene	2.9560 2.4733	2.6985 2.2744	2.7537	2.7320	2.6045	Ave		2.6418				8.3		20.0			
4-Chlorotoluene	0.8316 0.7288	0.8017 0.7136	0.7893	0.7799	0.7629	Ave		0.7726				5.3		20.0			
tert-Butylbenzene	0.6679 0.5873	0.5974 0.5741	0.6236	0.6149	0.6026	Ave		0.6097				5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	3.0356 2.5393	2.8595 2.3455	2.7773	2.7840	2.7085	Ave		2.7214				8.2		20.0			
sec-Butylbenzene	3.7476 3.1027	3.4401 2.7803	3.5022	3.4487	3.3091	Ave		3.3330				9.4		20.0			
4-Isopropyltoluene	3.1337 2.6811	2.8661 2.4373	2.9694	2.9226	2.8398	Ave		2.8357				7.9		20.0			
1,3-Dichlorobenzene	1.7500 1.5297	1.6612 1.4610	1.6330	1.6277	1.5876	Ave		1.6072			0.6000	5.8		20.0			
1,4-Dichlorobenzene	1.8007 1.5457	1.6424 1.4665	1.6295	1.6528	1.6056	Ave		1.6205			0.5000	6.4		20.0			
n-Butylbenzene	2.9154 2.4500	2.6719 2.2222	2.7876	2.7096	2.6157	Ave		2.6246				8.7		20.0			
1,2-Dichlorobenzene	1.6586 1.4624	1.5579 1.4100	1.5335	1.5545	1.5272	Ave		1.5291			0.4000	5.1		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1525	0.1125 0.1550	0.1180	0.1242	0.1524	Ave		0.1357			0.0500	14.4		20.0			
1,2,4-Trichlorobenzene	1.0980 1.0237	1.0384 0.9933	1.0564	1.0704	1.0437	Ave		1.0463			0.2000	3.2		20.0			
Hexachlorobutadiene	0.6576 0.5993	0.5982 0.5885	0.6351	0.6221	0.6157	Ave		0.6167				3.9		20.0			
Naphthalene	2.3326 2.2912	2.2743 2.1238	2.3049	2.3599	2.4090	Ave		2.2994				3.9		20.0			
1,2,3-Trichlorobenzene	0.9674 0.9426	0.9328 0.9210	0.9796	0.9873	0.9709	Ave		0.9574				2.6		20.0			
Dibromofluoromethane (Surr)	1.2863 1.3236	1.3172 1.3143	1.3078	1.3211	1.3164	Ave		1.3124				1.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8438 0.8558	0.8572 0.8349	0.8480	0.8507	0.8560	Ave		0.8495				0.9		20.0			
Toluene-d8 (Surr)	2.3463 2.3916	2.3195 2.4337	2.3265	2.3726	2.3400	Ave		2.3614				1.7		20.0			
4-Bromofluorobenzene (Surr)	0.7904 0.8178	0.7729 0.8253	0.7888	0.8058	0.8007	Ave		0.8002				2.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-367895/4	F6326.D
Level 2	IC 480-367895/5	F6327.D
Level 3	IC 480-367895/6	F6328.D
Level 4	IC 480-367895/7	F6329.D
Level 5	ICIS 480-367895/8	F6330.D
Level 6	IC 480-367895/9	F6331.D
Level 7	IC 480-367895/10	F6332.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	20456 741873	38568 1429613	77845	155081	381744	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	17597 605870	34514 1165843	65856	127472	311413	2.50 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	16322 591393	30846 1133626	63671	122408	301611	2.50 100	5.00 200	10.0	20.0	50.0
Butadiene	FB	Ave	15209 512635	29166 1001545	57097	110638	265865	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	+++++ 208645	11859 421995	22568	41218	101419	+++++ 100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Lin1	7675 191114	14103 382631	19642	37981	94116	2.50 100	5.00 200	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	19900 671368	39235 1333487	73065	139336	337337	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	21068 756204	42359 1501188	80778	154383	378988	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	10782 389861	19995 783815	39616	85113	209421	2.50 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	13974 487499	25426 932528	52261	100234	260409	12.5 500	25.0 1000	50.0	100	250
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	17170 639325	32193 1266344	67180	138081	330615	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	FB	Ave	15826 581513	28261 1131484	61418	126090	299491	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	FB	Ave	+++++ 1039731	64131 2033994	108751	228705	577992	+++++ 500	25.0 1000	50.0	100	250
Iodomethane	FB	Ave	33689 1203737	60119 2337632	125906	251515	616313	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	+++++ 1970515	127676 3764285	228931	440604	1035466	+++++ 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	59238 2104286	112960 3908178	216780	432895	1149993	12.5 500	25.0 1000	50.0	100	250
Allyl chloride	FB	Ave	+++++ 940884	52660 1783697	101676	204336	488969	+++++ 100	5.00 200	10.0	20.0	50.0
Methylene Chloride	FB	Lin1	25017 687823	40319 1335054	74824	147807	360148	2.50 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	FB	Ave	17186 764786	37410 1505047	73099	144732	414273	25.0 1000	50.0 2000	100	200	500
Methyl tert-butyl ether	FB	Ave	50327 1980070	97766 3826867	198768	408164	1047101	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	18635 655195	34882 1252613	70303	139110	338014	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	56573 2077609	111382 3883165	215024	434187	1141954	25.0 1000	50.0 2000	100	200	500
Hexane	FB	Ave	+++++ 947060	49518 1810080	100119	203396	492855	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	53909 2136567	105324 4046103	213366	441380	1136990	5.00 200	10.0 400	20.0	40.0	100
1,1-Dichloroethane	FB	Ave	32512 1157813	59704 2235335	120814	245036	597370	2.50 100	5.00 200	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	27066 1043497	49602 2017030	107293	214283	533678	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	33597 1447892	69657 2697481	144926	287478	792178	12.5 500	25.0 1000	50.0	100	250
cis-1,2-Dichloroethene	FB	Ave	20027 736608	37435 1420670	76121	155990	384257	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	FB	Ave	8905 361526	18214 710828	35175	73027	184333	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	FB	Ave	8855 361624	18159 681039	35610	69477	194222	5.00 200	10.0 400	20.0	40.0	100
Chloroform	FB	Ave	34241 1230364	63146 2374185	126428	256544	627303	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	28243 1100104	52846 2150762	109691	220696	553979	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	FB	Ave	+++++ 1034557	55068 1969972	108917	221619	531715	+++++ 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 912737	46387 1733486	94629	190958	467658	+++++ 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	19913 913747	36731 1851720	78546	164876	441092	2.50 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	17812 763740	33664 1487313	67186	140420	412434	62.5 2500	125 5000	250	500	1250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	69911 2453615	127402 4629602	263571	520586	1278496	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	28994 1032689	52909 1988012	104633	215143	539467	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	FB	Ave	+++++ 923082	50297 1751083	98499	204161	478499	+++++ 100	5.00 200	10.0	20.0	50.0
Trichloroethene	FB	Ave	19150 695074	34946 1357877	72088	143085	355378	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	33798 1168368	57382 2243684	123025	245784	602359	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	16729 630179	30688 1233710	62184	130413	320235	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBNZ d5	Lin1	1419 148459	4367 297020	12977	29534	81171	50.0 2000	100 4000	200	400	1000
Dibromomethane	FB	Ave	11233 442414	21196 856867	43988	89319	226152	2.50 100	5.00 200	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	17816 885133	36028 1794814	75075	163947	428742	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	9308 380764	17359 742017	36326	73434	198370	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	24499 1096527	48096 2148475	98100	208493	553054	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	72745 2849063	146175 5118631	292317	587035	1579381	12.5 500	25.0 1000	50.0	100	250
Toluene	CBNZ d5	Ave	+++++ 1616962	90464 3089086	170625	342202	835846	+++++ 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	21464 1015861	40926 1987513	89290	192671	507270	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	19411 845847	37872 1629551	79191	166076	437086	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	11917 476634	23009 926647	47365	96346	245609	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	20176 746479	38247 1443677	76074	154343	385945	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	26853 986490	48314 1889226	98578	205342	516543	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBNZ d5	Ave	50361 2083553	106561 3738265	211612	422631	1154083	12.5 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBNZ d5	Lin1	+++++ 647861	20297 1359822	44373	104294	302519	+++++ 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	14651 604203	27346 1173860	56670	117915	303332	2.50 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	49341 1790763	92057 3417394	184551	374264	918308	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 2965117	159616 5385473	319166	642538	1560076	+++++ 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	13018 668575	25613 1335762	53910	119732	325999	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBNZ d5	Ave	+++++ 1220088	62664 2329337	125749	252446	629311	+++++ 100	5.00 200	10.0	20.0	50.0
o-Xylene	CBNZ d5	Ave	32333 1176909	59554 2278394	119941	246824	610756	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 2027015	104059 3839885	209786	426796	1049534	+++++ 100	5.00 200	10.0	20.0	50.0
Bromoform	CBNZ d5	Lin1	+++++ 418708	9976 909203	23164	55168	181803	+++++ 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCBd 4	Ave	83447 3041683	156677 5569835	317727	643751	1571829	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	17667 738707	34885 1381192	72052	147285	390962	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCBd 4	Ave	21403 846905	41628 1656976	83823	173816	434307	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	5102 242562	10873 450490	20837	44694	124745	2.50 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	100787 3437834	185477 6060485	375418	758597	1842824	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	6362 242618	12440 461259	24094	48977	129969	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	19573 744807	36028 1434353	75216	151537	379075	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	72717 2617115	132707 4780011	274822	558408	1358965	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	20457 771222	39427 1499790	78776	159413	398034	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	16429 621466	29380 1206491	62233	125676	314436	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	74676 2686903	140625 4929543	277170	569033	1413205	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	92189 3283091	169181 5843192	349523	704913	1726572	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	77088 2836916	140952 5122436	296347	597373	1481738	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	43049 1618609	81695 3070433	162976	332702	828372	2.50 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	44297 1635606	80773 3082149	162620	337831	837772	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	71718 2592397	131400 4670385	278206	553836	1364825	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	40802 1547381	76614 2963263	153047	317727	796831	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 161337	5533 325731	11772	25376	79527	+++++ 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	27010 1083264	51068 2087551	105428	218779	544554	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	16176 634166	29420 1236872	63386	127165	321237	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	57382 2424395	111845 4463512	230027	482362	1256929	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	23799 997367	45872 1935590	97765	201808	506579	2.50 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	316313 329921	319194 331206	319033	323454	328709	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	207506 213309	207716 210382	206878	208278	213748	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	1175017 1219264	1167924 1239779	1172619	1189593	1202239	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	395821 416905	389165 420445	397567	404014	411389	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jul-2017 11:43:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0064196-004
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:23 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 12:47:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	245914	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	500788	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	491995	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	93	316313	50.0	49.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	207506	50.0	49.7	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	1175017	50.0	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	88	395821	50.0	49.4	
10 Dichlorodifluoromethane	85	1.839	1.827	0.012	98	20456	2.50	2.68	
12 Chloromethane	50	1.948	1.954	-0.006	98	17597	2.50	2.74	
13 Vinyl chloride	62	2.058	2.064	-0.006	97	16322	2.50	2.68	
151 Butadiene	54	2.076	2.076	0.000	89	15209	2.50	2.77	
14 Bromomethane	94	2.344	2.338	0.006	96	8054	2.50	3.76	
15 Chloroethane	64	2.411	2.417	-0.006	97	7675	2.50	2.40	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	96	19900	2.50	2.78	
17 Trichlorofluoromethane	101	2.611	2.605	0.006	88	21068	2.50	2.67	
18 Ethyl ether	59	2.782	2.788	-0.006	91	10782	2.50	2.65	
20 Acrolein	56	2.946	2.934	0.012	97	13974	12.5	13.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	91	17170	2.50	2.61	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	98	15826	2.50	2.65	
23 Acetone	43	3.043	3.049	-0.006	99	35479	12.5	15.9	
25 Iodomethane	142	3.147	3.147	0.000	99	33689	2.50	2.73	
26 Carbon disulfide	76	3.202	3.195	0.007	99	84112	2.50	3.90	
27 Methyl acetate	43	3.262	3.256	0.006	95	59238	12.5	13.6	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	77	29314	2.50	2.99	
30 Methylene Chloride	84	3.378	3.372	0.006	93	25017	2.50	2.38	
31 2-Methyl-2-propanol	59	3.433	3.427	0.006	91	17186	25.0	23.1	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	97	50327	2.50	2.53	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	97	18635	2.50	2.73	
33 Acrylonitrile	53	3.579	3.567	0.012	97	56573	25.0	26.3	
35 Hexane	57	3.688	3.688	0.000	92	29719	2.50	3.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.871	3.865	0.006	97	53909	5.00	5.04	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	95	32512	2.50	2.72	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	67	27066	2.50	2.59	
43 2-Butanone (MEK)	43	4.321	4.309	0.012	89	33597	12.5	11.8	
45 cis-1,2-Dichloroethene	96	4.327	4.321	0.006	84	20027	2.50	2.65	
48 Chlorobromomethane	128	4.528	4.522	0.006	88	8905	2.50	2.48	
49 Tetrahydrofuran	42	4.558	4.546	0.012	51	8855	5.00	4.95	
50 Chloroform	83	4.564	4.558	0.006	94	34241	2.50	2.72	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	50	28243	2.50	2.59	
52 Cyclohexane	56	4.741	4.729	0.013	90	31795	2.50	3.00	
54 1,1-Dichloropropene	75	4.826	4.820	0.006	94	25969	2.50	2.82	
55 Carbon tetrachloride	117	4.838	4.832	0.006	93	19913	2.50	2.39	
53 Isobutyl alcohol	43	4.893	4.887	0.006	87	17812	62.5	61.5	M
57 Benzene	78	5.002	5.002	0.000	93	69911	2.50	2.74	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	94	28994	2.50	2.74	
59 n-Heptane	43	5.094	5.100	-0.006	89	28281	2.50	2.95	
62 Trichloroethene	95	5.526	5.519	0.007	96	19150	2.50	2.70	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	33798	2.50	2.81	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	90	16729	2.50	2.64	
66 1,4-Dioxane	88	5.854	5.842	0.012	1	1419	50.0	49.4	M
67 Dibromomethane	93	5.866	5.866	0.000	92	11233	2.50	2.56	
68 Dichlorobromomethane	83	5.982	5.976	0.006	98	17816	2.50	2.22	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	91	9308	2.50	2.52	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	24499	2.50	2.38	
73 4-Methyl-2-pentanone (MIBK	43	6.462	6.456	0.006	97	72745	12.5	12.7	
74 Toluene	92	6.645	6.645	0.000	98	52464	2.50	3.17	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	94	21464	2.50	2.32	
75 Ethyl methacrylate	69	6.876	6.870	0.006	68	19411	2.50	2.41	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	94	11917	2.50	2.54	
81 Tetrachloroethene	166	7.162	7.162	0.000	93	20176	2.50	2.67	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	94	26853	2.50	2.71	
80 2-Hexanone	43	7.247	7.241	0.006	95	50361	12.5	12.2	
83 Chlorodibromomethane	129	7.472	7.466	0.006	87	9941	2.50	4.29	
84 Ethylene Dibromide	107	7.594	7.594	0.000	97	14651	2.50	2.54	
87 Chlorobenzene	112	8.044	8.044	0.000	94	49341	2.50	2.71	
88 Ethylbenzene	91	8.111	8.111	0.000	98	88914	2.50	2.94	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	89	13018	2.50	2.22	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	36209	2.50	2.97	
91 o-Xylene	106	8.659	8.658	0.001	96	32333	2.50	2.70	
92 Styrene	104	8.677	8.677	0.000	94	63471	2.50	3.12	
95 Bromoform	173	8.951	8.951	0.001	90	5022	2.50	5.32	
94 Isopropylbenzene	105	9.024	9.024	0.000	97	83447	2.50	2.77	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	73	17667	2.50	2.53	
101 Bromobenzene	156	9.419	9.413	0.006	92	21403	2.50	2.61	
98 trans-1,4-Dichloro-2-buten	53	9.456	9.455	0.001	41	5102	2.50	2.36	
99 N-Propylbenzene	91	9.456	9.455	0.001	99	100787	2.50	2.87	
100 1,2,3-Trichloropropane	110	9.468	9.462	0.006	52	6362	2.50	2.68	
103 2-Chlorotoluene	126	9.583	9.589	-0.006	95	19573	2.50	2.71	
102 1,3,5-Trimethylbenzene	105	9.632	9.626	0.006	94	72717	2.50	2.80	
105 4-Chlorotoluene	126	9.699	9.693	0.006	99	20457	2.50	2.69	
106 tert-Butylbenzene	134	9.954	9.954	0.000	90	16429	2.50	2.74	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	96	74676	2.50	2.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	92189	2.50	2.81	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	77088	2.50	2.76	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	43049	2.50	2.72	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.001	95	44297	2.50	2.78	
115 n-Butylbenzene	91	10.672	10.666	0.006	97	71718	2.50	2.78	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	98	40802	2.50	2.71	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	74	2446	2.50	1.83	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	93	27010	2.50	2.62	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	96	16176	2.50	2.67	
121 Naphthalene	128	12.290	12.290	0.000	98	57382	2.50	2.54	
122 1,2,3-Trichlorobenzene	180	12.491	12.497	-0.006	93	23799	2.50	2.53	
S 123 Total BTEX	1				0			14.5	
S 124 Xylenes, Total	1				0			5.67	
S 125 1,2-Dichloroethene, Total	1				0			5.38	
S 126 1,3-Dichloropropene, Total	1				0			4.69	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00103	Amount Added:	2.50	Units: uL	
GAS CORP mix_00230	Amount Added:	2.50	Units: uL	
F 8260 SURR_00239	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added:	1.00	Units: uL	Run Reagent

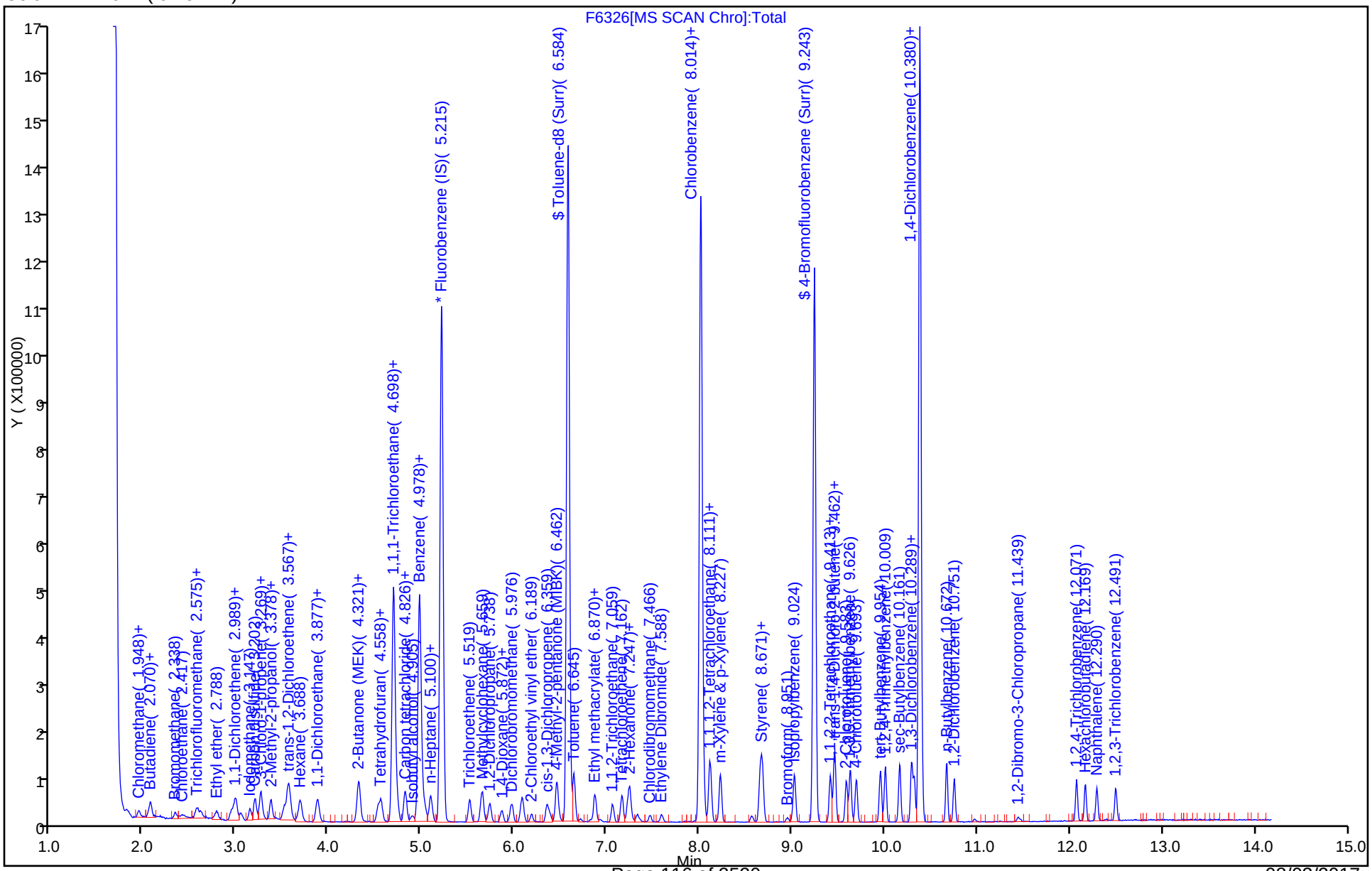
Report Date: 21-Jul-2017 07:11:24 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D

Injection Date:	20-Jul-2017 11:43:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

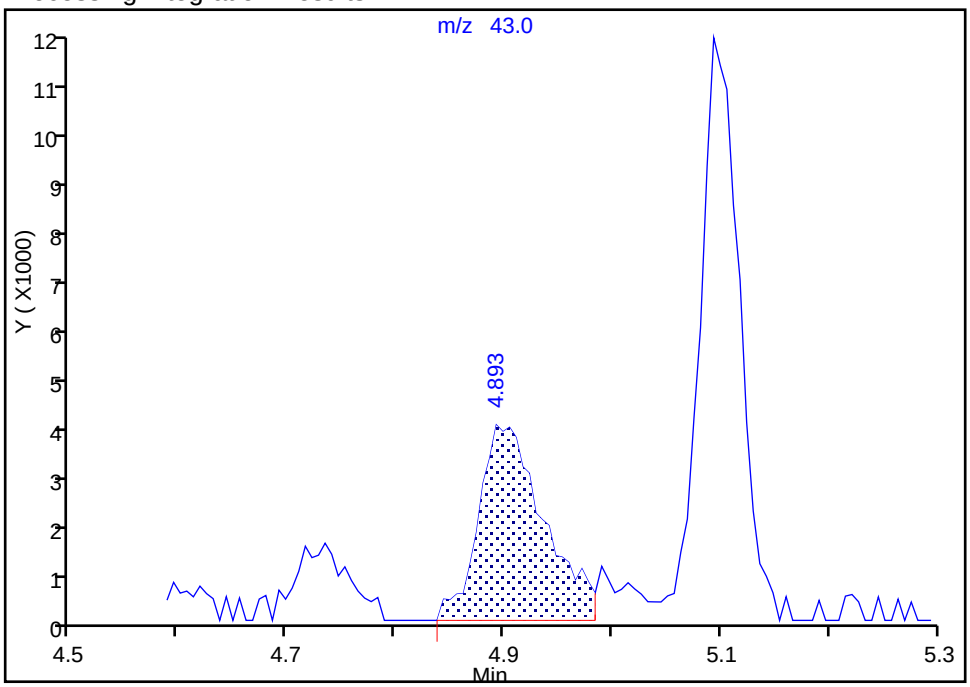
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D
Injection Date: 20-Jul-2017 11:43:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

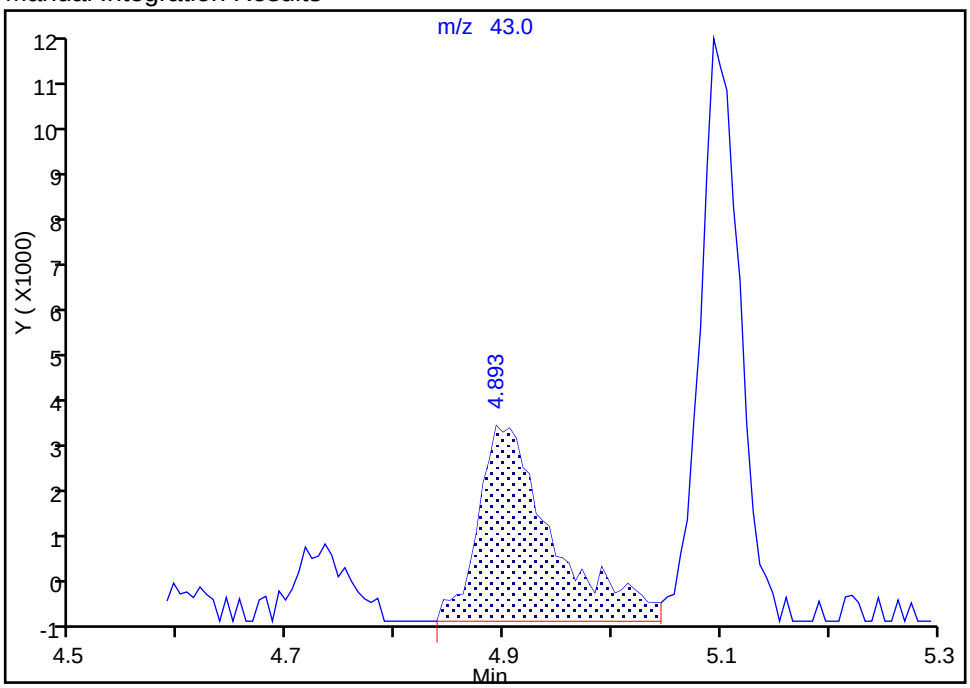
Processing Integration Results

RT: 4.89
Area: 15676
Amount: 55.039193
Amount Units: ug/kg



Manual Integration Results

RT: 4.89
Area: 17812
Amount: 61.484823
Amount Units: ug/kg



Reviewer: cwiklinc, 20-Jul-2017 14:39:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

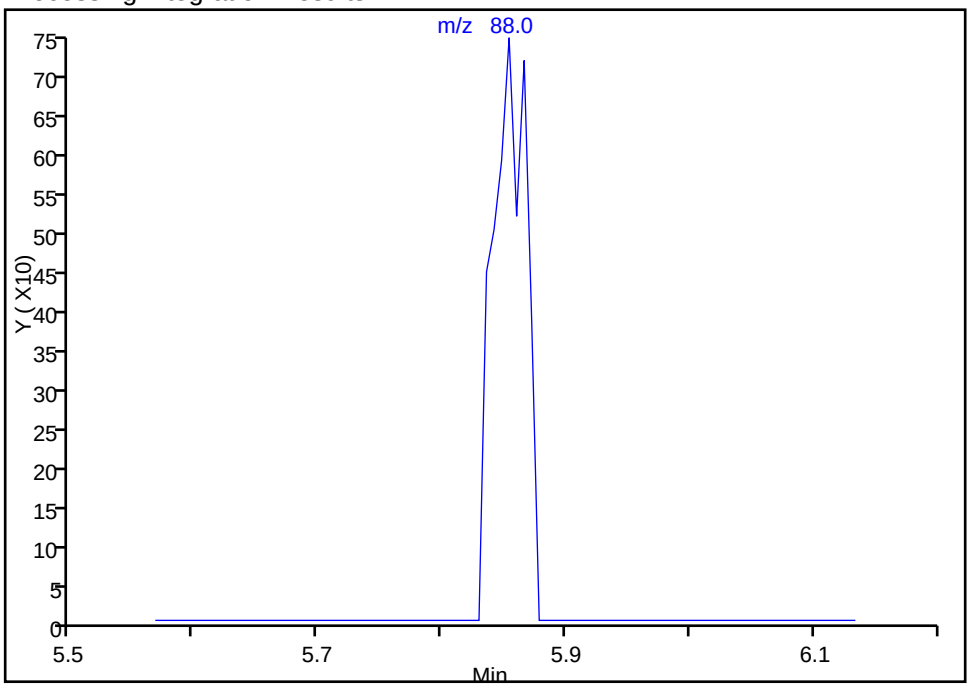
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D
Injection Date: 20-Jul-2017 11:43:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

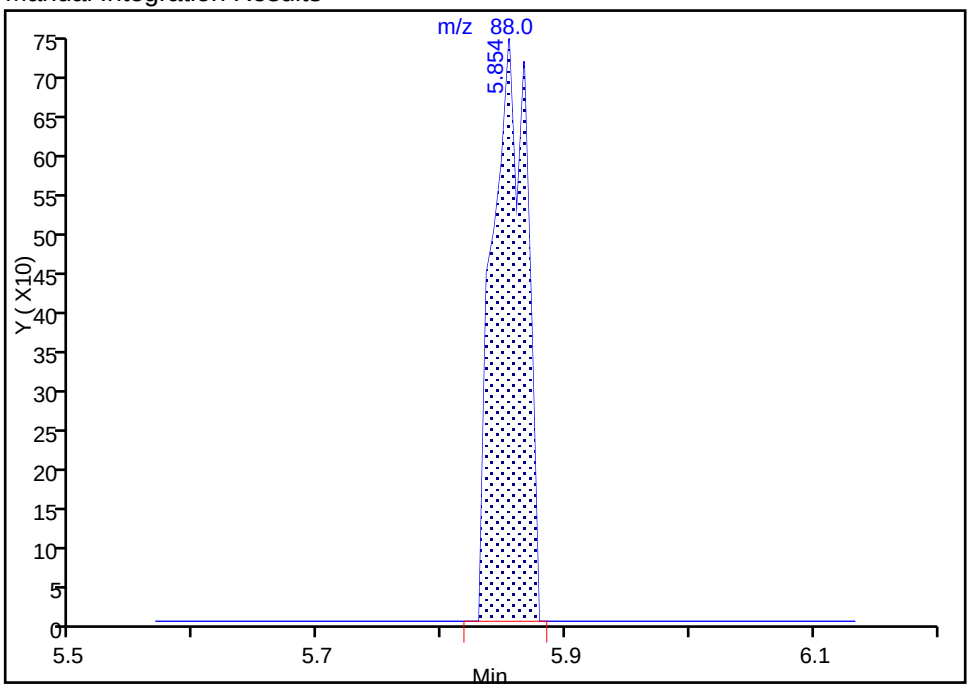
Not Detected
Expected RT: 5.84

Processing Integration Results



Manual Integration Results

RT: 5.85
Area: 1419
Amount: 49.442167
Amount Units: ug/kg



Reviewer: cwiklinc, 20-Jul-2017 14:39:37
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

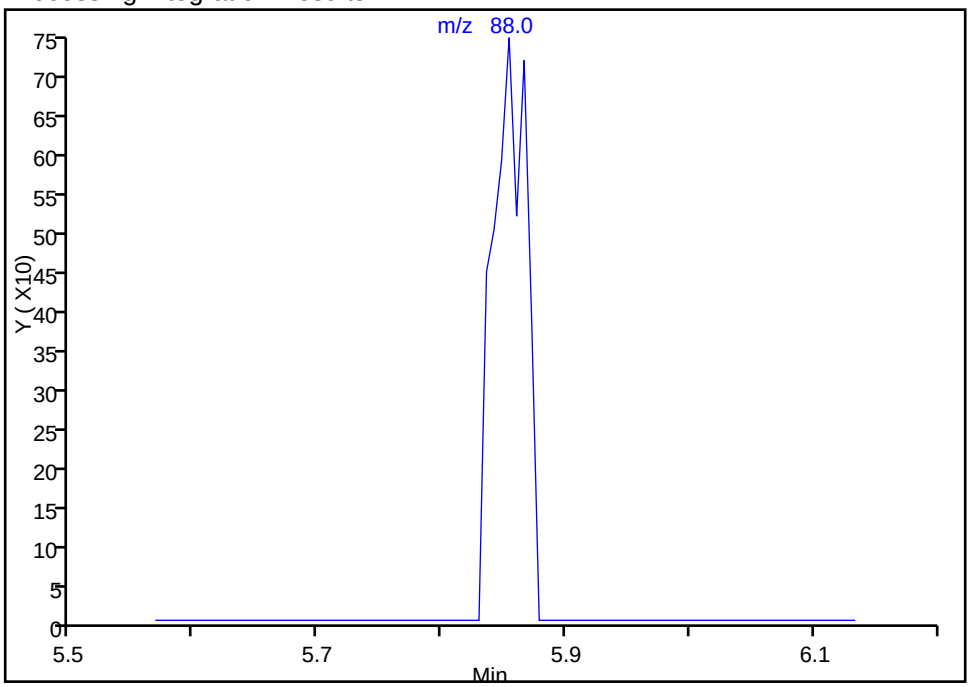
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D
Injection Date: 20-Jul-2017 11:43:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

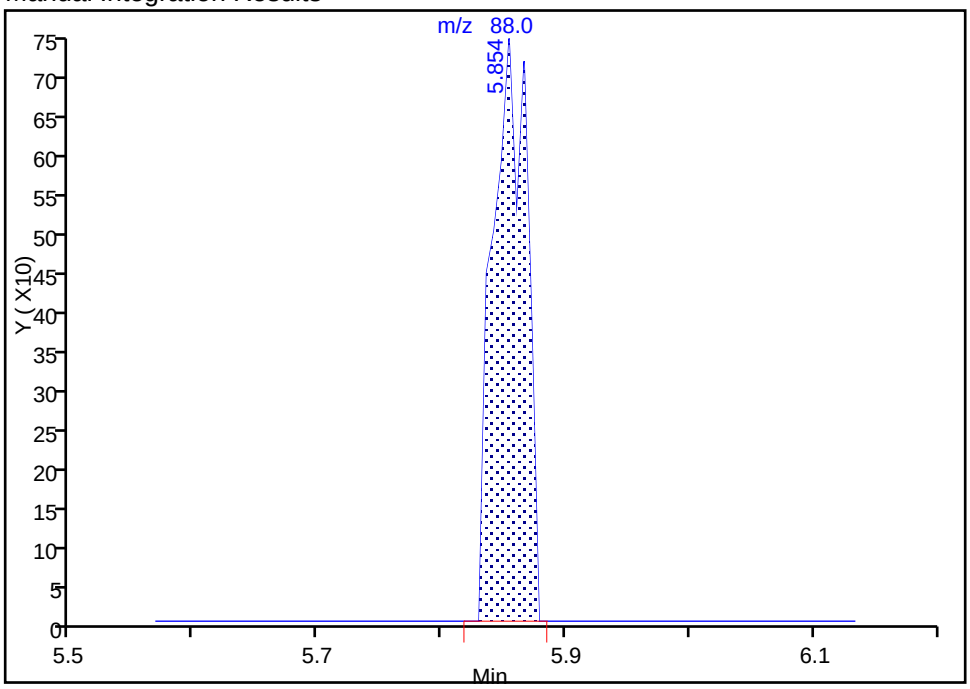
Not Detected
Expected RT: 5.84

Processing Integration Results



Manual Integration Results

RT: 5.85
Area: 1419
Amount: 49.442167
Amount Units: ug/kg



Reviewer: cwiklinc, 20-Jul-2017 14:39:47
Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6327.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jul-2017 12:09:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0064196-005
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:26 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:16:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.209	5.215	-0.006	98	242333	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.013	8.014	-0.001	88	503526	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	491786	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.698	-0.006	93	319194	50.0	50.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	207716	50.0	50.5	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1167924	50.0	49.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	0.000	92	389165	50.0	48.3	
10 Dichlorodifluoromethane	85	1.820	1.827	-0.007	99	38568	5.00	5.12	
12 Chloromethane	50	1.936	1.954	-0.018	99	34514	5.00	5.46	
13 Vinyl chloride	62	2.046	2.064	-0.018	98	30846	5.00	5.14	
151 Butadiene	54	2.064	2.076	-0.012	88	29166	5.00	5.38	
14 Bromomethane	94	2.319	2.338	-0.019	93	11859	5.00	5.61	
15 Chloroethane	64	2.404	2.417	-0.013	98	14103	5.00	6.01	
16 Dichlorofluoromethane	67	2.557	2.569	-0.012	97	39235	5.00	5.57	
17 Trichlorofluoromethane	101	2.593	2.605	-0.012	97	42359	5.00	5.45	
18 Ethyl ether	59	2.776	2.788	-0.012	88	19995	5.00	5.00	
20 Acrolein	56	2.934	2.934	0.000	99	25426	25.0	25.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.970	-0.006	93	32193	5.00	4.96	
22 1,1-Dichloroethene	96	2.988	2.995	-0.007	95	28261	5.00	4.81	
23 Acetone	43	3.043	3.049	-0.006	99	64131	25.0	29.1	
25 Iodomethane	142	3.141	3.147	-0.006	99	60119	5.00	4.94	
26 Carbon disulfide	76	3.195	3.195	0.000	100	127676	5.00	6.01	
27 Methyl acetate	43	3.256	3.256	0.000	96	112960	25.0	26.3	
28 3-Chloro-1-propene	41	3.256	3.262	-0.006	75	52660	5.00	5.45	
30 Methylene Chloride	84	3.360	3.372	-0.012	89	40319	5.00	4.79	
31 2-Methyl-2-propanol	59	3.426	3.427	-0.001	94	37410	50.0	51.0	
32 Methyl tert-butyl ether	73	3.518	3.518	0.000	95	97766	5.00	4.98	
34 trans-1,2-Dichloroethene	96	3.548	3.554	-0.006	98	34882	5.00	5.18	
33 Acrylonitrile	53	3.566	3.567	-0.001	97	111382	50.0	52.5	
35 Hexane	57	3.682	3.688	-0.006	92	49518	5.00	5.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.858	3.865	-0.007	98	105324	10.0	9.99	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	96	59704	5.00	5.07	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	95	69657	25.0	24.8	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	69	49602	5.00	4.82	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	37435	5.00	5.03	
48 Chlorobromomethane	128	4.522	4.522	0.000	93	18214	5.00	5.15	
49 Tetrahydrofuran	42	4.546	4.546	0.000	53	18159	10.0	10.3	
50 Chloroform	83	4.558	4.558	0.000	94	63146	5.00	5.08	
51 1,1,1-Trichloroethane	97	4.698	4.704	-0.006	95	52846	5.00	4.91	
52 Cyclohexane	56	4.728	4.729	0.000	90	55068	5.00	5.27	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	93	46387	5.00	5.11	
55 Carbon tetrachloride	117	4.832	4.832	0.000	73	36731	5.00	4.47	
53 Isobutyl alcohol	43	4.893	4.887	0.006	93	33664	125.0	117.9	
57 Benzene	78	5.002	5.002	0.000	96	127402	5.00	5.07	
58 1,2-Dichloroethane	62	5.033	5.039	-0.006	95	52909	5.00	5.07	
59 n-Heptane	43	5.093	5.100	-0.007	90	50297	5.00	5.33	
62 Trichloroethene	95	5.519	5.519	0.000	95	34946	5.00	5.00	
64 Methylcyclohexane	83	5.647	5.653	-0.006	90	57382	5.00	4.84	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	92	30688	5.00	4.92	
66 1,4-Dioxane	88	5.860	5.842	0.018	69	4367	100.0	88.4	
67 Dibromomethane	93	5.866	5.866	0.000	96	21196	5.00	4.90	
68 Dichlorobromomethane	83	5.976	5.976	0.000	98	36028	5.00	4.56	
69 2-Chloroethyl vinyl ether	63	6.182	6.189	-0.007	92	17359	5.00	4.76	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	48096	5.00	4.74	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	146175	25.0	25.4	
74 Toluene	92	6.645	6.645	0.000	98	90464	5.00	5.43	
75 Ethyl methacrylate	69	6.870	6.870	0.000	91	37872	5.00	4.68	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	97	40926	5.00	4.39	
79 1,1,2-Trichloroethane	83	7.058	7.065	-0.007	93	23009	5.00	4.87	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	38247	5.00	5.03	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	92	48314	5.00	4.84	
80 2-Hexanone	43	7.253	7.241	0.012	96	106561	25.0	25.6	
83 Chlorodibromomethane	129	7.466	7.466	0.000	91	20297	5.00	5.84	
84 Ethylene Dibromide	107	7.594	7.594	0.000	99	27346	5.00	4.71	
87 Chlorobenzene	112	8.044	8.044	0.000	93	92057	5.00	5.03	
88 Ethylbenzene	91	8.111	8.111	0.000	99	159616	5.00	5.25	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	90	25613	5.00	4.34	
90 m-Xylene & p-Xylene	106	8.226	8.227	-0.001	99	62664	5.00	5.10	
91 o-Xylene	106	8.658	8.658	0.000	97	59554	5.00	4.95	
92 Styrene	104	8.677	8.677	0.000	94	104059	5.00	5.09	
95 Bromoform	173	8.944	8.951	-0.006	93	9976	5.00	6.45	
94 Isopropylbenzene	105	9.023	9.024	-0.001	96	156677	5.00	5.20	
101 Bromobenzene	156	9.413	9.413	0.000	92	41628	5.00	5.08	
97 1,1,2,2-Tetrachloroethane	83	9.407	9.413	-0.006	75	34885	5.00	4.99	
99 N-Propylbenzene	91	9.461	9.455	0.006	98	185477	5.00	5.28	
98 trans-1,4-Dichloro-2-buten	53	9.461	9.455	0.006	41	10873	5.00	5.03	
100 1,2,3-Trichloropropane	110	9.461	9.462	-0.001	52	12440	5.00	5.24	
103 2-Chlorotoluene	126	9.589	9.589	0.000	95	36028	5.00	4.99	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	94	132707	5.00	5.11	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	39427	5.00	5.19	
106 tert-Butylbenzene	134	9.954	9.954	0.000	92	29380	5.00	4.90	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	140625	5.00	5.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	169181	5.00	5.16	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	140952	5.00	5.05	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	81695	5.00	5.17	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	94	80773	5.00	5.07	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	131400	5.00	5.09	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	76614	5.00	5.09	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	77	5533	5.00	4.14	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	93	51068	5.00	4.96	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	96	29420	5.00	4.85	
121 Naphthalene	128	12.290	12.290	0.000	97	111845	5.00	4.95	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	94	45872	5.00	4.87	
S 125 1,2-Dichloroethene, Total	1				0			10.2	
S 126 1,3-Dichloropropene, Total	1				0			9.13	
S 123 Total BTEX	1				0			25.8	
S 124 Xylenes, Total	1				0			10.1	

Reagents:

8260 CORP mix_00103	Amount Added:	5.00	Units: uL	
GAS CORP mix_00230	Amount Added:	5.00	Units: uL	
F 8260 SURR_00239	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added:	1.00	Units: uL	Run Reagent

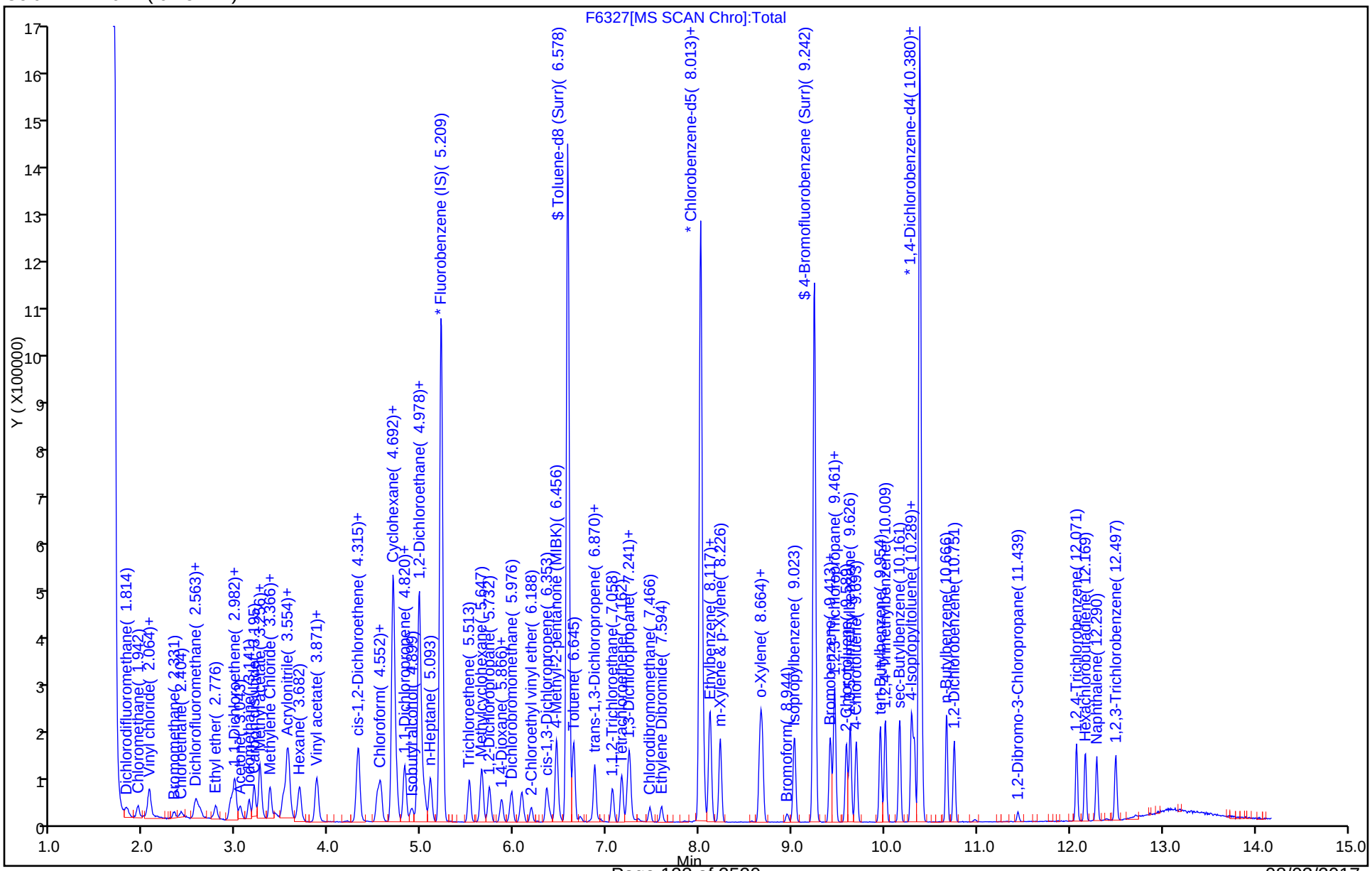
Report Date: 21-Jul-2017 07:11:27 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6327.D

Injection Date:	20-Jul-2017 12:09:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6328.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Jul-2017 12:34:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0064196-006
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:28 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:55:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	243947	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	87	504037	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	499000	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.698	-0.006	92	319033	50.0	49.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	206878	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	93	1172619	50.0	49.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	89	397567	50.0	49.3	
10 Dichlorodifluoromethane	85	1.814	1.827	-0.013	98	77845	10.0	10.3	
12 Chloromethane	50	1.942	1.954	-0.012	99	65856	10.0	10.4	
13 Vinyl chloride	62	2.052	2.064	-0.012	98	63671	10.0	10.5	
151 Butadiene	54	2.070	2.076	-0.006	93	57097	10.0	10.5	
14 Bromomethane	94	2.326	2.338	-0.012	91	22568	10.0	10.6	
15 Chloroethane	64	2.405	2.417	-0.012	97	19642	10.0	9.00	
16 Dichlorofluoromethane	67	2.563	2.569	-0.006	97	73065	10.0	10.3	
17 Trichlorofluoromethane	101	2.593	2.605	-0.012	97	80778	10.0	10.3	
18 Ethyl ether	59	2.776	2.788	-0.012	90	39616	10.0	9.83	
20 Acrolein	56	2.934	2.934	0.000	97	52261	50.0	51.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.970	-0.006	93	67180	10.0	10.3	
22 1,1-Dichloroethene	96	2.989	2.995	-0.006	97	61418	10.0	10.4	
23 Acetone	43	3.043	3.049	-0.006	99	108751	50.0	49.1	
25 Iodomethane	142	3.141	3.147	-0.006	100	125906	10.0	10.3	
26 Carbon disulfide	76	3.195	3.195	0.000	100	228931	10.0	10.7	
27 Methyl acetate	43	3.262	3.256	0.006	95	216780	50.0	50.1	
28 3-Chloro-1-propene	41	3.256	3.262	-0.006	77	101676	10.0	10.5	
30 Methylene Chloride	84	3.366	3.372	-0.006	92	74824	10.0	10.0	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	91	73099	100.0	98.9	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	94	198768	10.0	10.1	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	97	70303	10.0	10.4	
33 Acrylonitrile	53	3.567	3.567	0.000	98	215024	100.0	100.7	
35 Hexane	57	3.682	3.688	-0.006	93	100119	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	98	213366	20.0	20.1	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	96	120814	10.0	10.2	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	90	107293	10.0	10.4	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	97	144926	50.0	51.3	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	76121	10.0	10.2	
48 Chlorobromomethane	128	4.522	4.522	0.000	93	35175	10.0	9.87	
49 Tetrahydrofuran	42	4.546	4.546	0.000	82	35610	20.0	20.1	
50 Chloroform	83	4.558	4.558	0.000	94	126428	10.0	10.1	
51 1,1,1-Trichloroethane	97	4.698	4.704	-0.006	55	109691	10.0	10.1	
52 Cyclohexane	56	4.729	4.729	0.001	90	108917	10.0	10.4	
54 1,1-Dichloropropene	75	4.814	4.820	-0.006	95	94629	10.0	10.4	
55 Carbon tetrachloride	117	4.826	4.832	-0.006	97	78546	10.0	9.50	
53 Isobutyl alcohol	43	4.899	4.887	0.012	88	67186	250.0	233.8	
57 Benzene	78	5.002	5.002	0.000	95	263571	10.0	10.4	
58 1,2-Dichloroethane	62	5.033	5.039	-0.006	96	104633	10.0	9.95	
59 n-Heptane	43	5.094	5.100	-0.006	88	98499	10.0	10.4	
62 Trichloroethene	95	5.519	5.519	0.000	94	72088	10.0	10.2	
64 Methylcyclohexane	83	5.647	5.653	-0.006	90	123025	10.0	10.3	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	90	62184	10.0	9.91	
66 1,4-Dioxane	88	5.848	5.842	0.006	83	12977	200.0	202.5	
67 Dibromomethane	93	5.860	5.866	-0.006	96	43988	10.0	10.1	
68 Dichlorobromomethane	83	5.976	5.976	0.000	98	75075	10.0	9.43	
69 2-Chloroethyl vinyl ether	63	6.183	6.189	-0.007	94	36326	10.0	9.90	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	98100	10.0	9.60	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	292317	50.0	50.7	
74 Toluene	92	6.645	6.645	0.000	98	170625	10.0	10.2	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	96	89290	10.0	9.58	
75 Ethyl methacrylate	69	6.876	6.870	0.006	89	79191	10.0	9.78	
79 1,1,2-Trichloroethane	83	7.059	7.065	-0.006	93	47365	10.0	10.0	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	76074	10.0	10.0	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	94	98578	10.0	9.87	
80 2-Hexanone	43	7.247	7.241	0.006	95	211612	50.0	50.8	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	44373	10.0	9.45	
84 Ethylene Dibromide	107	7.588	7.594	-0.006	96	56670	10.0	9.75	
87 Chlorobenzene	112	8.044	8.044	0.000	94	184551	10.0	10.1	
88 Ethylbenzene	91	8.111	8.111	0.000	98	319166	10.0	10.5	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	90	53910	10.0	9.12	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	125749	10.0	10.2	
91 o-Xylene	106	8.659	8.658	0.001	95	119941	10.0	9.97	
92 Styrene	104	8.677	8.677	0.000	93	209786	10.0	10.2	
95 Bromoform	173	8.951	8.951	0.001	95	23164	10.0	9.45	
94 Isopropylbenzene	105	9.024	9.024	0.000	96	317727	10.0	10.4	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	74	72052	10.0	10.2	
101 Bromobenzene	156	9.413	9.413	0.000	94	83823	10.0	10.1	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	64	20837	10.0	9.50	
99 N-Propylbenzene	91	9.455	9.455	0.000	98	375418	10.0	10.5	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	85	24094	10.0	10.0	
103 2-Chlorotoluene	126	9.583	9.589	-0.006	96	75216	10.0	10.3	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	93	274822	10.0	10.4	
105 4-Chlorotoluene	126	9.699	9.693	0.006	98	78776	10.0	10.2	
106 tert-Butylbenzene	134	9.948	9.954	-0.006	91	62233	10.0	10.2	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	277170	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	349523	10.0	10.5	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	296347	10.0	10.5	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	162976	10.0	10.2	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.000	95	162620	10.0	10.1	
115 n-Butylbenzene	91	10.672	10.666	0.006	97	278206	10.0	10.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	153047	10.0	10.0	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	80	11772	10.0	8.69	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	105428	10.0	10.1	
120 Hexachlorobutadiene	225	12.163	12.169	-0.006	97	63386	10.0	10.3	
121 Naphthalene	128	12.290	12.290	0.000	97	230027	10.0	10.0	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	97765	10.0	10.2	
S 123 Total BTEX	1				0			51.3	
S 124 Xylenes, Total	1				0			20.2	
S 125 1,2-Dichloroethene, Total	1				0			20.5	
S 126 1,3-Dichloropropene, Total	1				0			19.2	

Reagents:

8260 CORP mix_00103	Amount Added: 10.00	Units: uL	
GAS CORP mix_00230	Amount Added: 10.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

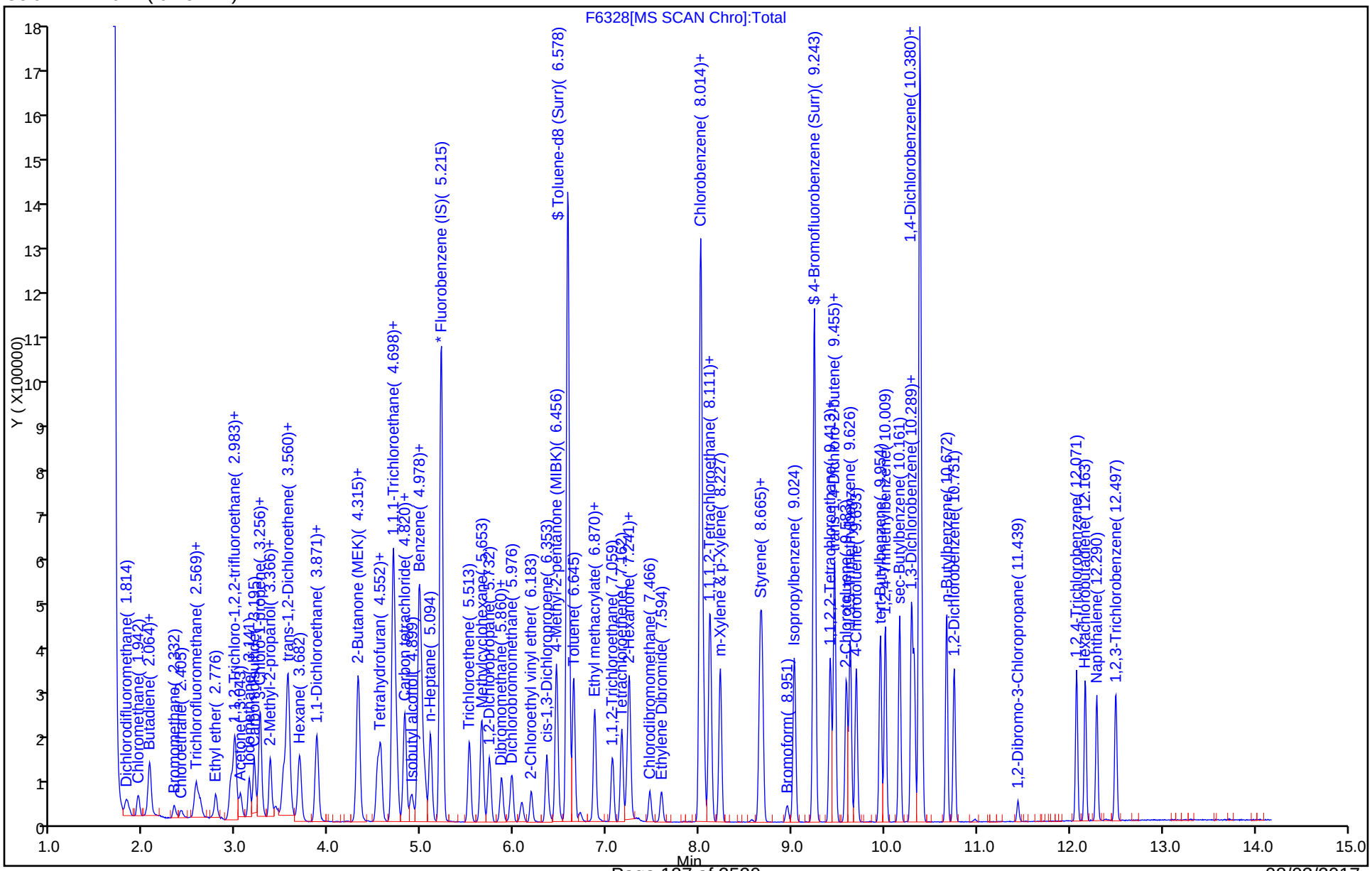
Report Date: 21-Jul-2017 07:11:30 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6328.D

Injection Date:	20-Jul-2017 12:34:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 3			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6329.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jul-2017 13:00:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0064196-007
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:31 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 15:45:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	244845	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	88	501391	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	510993	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	93	323454	50.0	50.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	208278	50.0	50.1	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	93	1189593	50.0	50.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	89	404014	50.0	50.3	
10 Dichlorodifluoromethane	85	1.827	1.827	0.000	99	155081	20.0	20.4	
12 Chloromethane	50	1.954	1.954	0.000	99	127472	20.0	20.0	
13 Vinyl chloride	62	2.064	2.064	0.000	98	122408	20.0	20.2	
151 Butadiene	54	2.076	2.076	0.000	90	110638	20.0	20.2	
14 Bromomethane	94	2.344	2.338	0.006	89	41218	20.0	19.3	
15 Chloroethane	64	2.417	2.417	0.000	98	37981	20.0	19.0	
16 Dichlorofluoromethane	67	2.563	2.569	-0.006	97	139336	20.0	19.6	
17 Trichlorofluoromethane	101	2.599	2.605	-0.006	97	154383	20.0	19.7	
18 Ethyl ether	59	2.788	2.788	0.000	89	85113	20.0	21.0	
20 Acrolein	56	2.940	2.934	0.006	99	100234	100.0	99.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	93	138081	20.0	21.1	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	97	126090	20.0	21.2	
23 Acetone	43	3.049	3.049	0.000	99	228705	100.0	102.8	
25 Iodomethane	142	3.147	3.147	0.000	99	251515	20.0	20.5	
26 Carbon disulfide	76	3.202	3.195	0.007	99	440604	20.0	20.5	
27 Methyl acetate	43	3.262	3.256	0.006	95	432895	100.0	99.7	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	77	204336	20.0	20.9	
30 Methylene Chloride	84	3.372	3.372	0.000	91	147807	20.0	21.1	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	99	144732	200.0	195.1	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	95	408164	20.0	20.6	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	97	139110	20.0	20.4	
33 Acrylonitrile	53	3.573	3.567	0.006	99	434187	200.0	202.6	
35 Hexane	57	3.688	3.688	0.000	92	203396	20.0	21.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	97	441380	40.0	41.4	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	97	245036	20.0	20.6	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	98	287478	100.0	101.4	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	78	214283	20.0	20.6	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	155990	20.0	20.7	
48 Chlorobromomethane	128	4.528	4.522	0.006	95	73027	20.0	20.4	
49 Tetrahydrofuran	42	4.546	4.546	0.000	85	69477	40.0	39.0	
50 Chloroform	83	4.564	4.558	0.006	94	256544	20.0	20.4	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	97	220696	20.0	20.3	
52 Cyclohexane	56	4.735	4.729	0.007	90	221619	20.0	21.0	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	95	190958	20.0	20.8	
55 Carbon tetrachloride	117	4.832	4.832	0.000	96	164876	20.0	19.9	
53 Isobutyl alcohol	43	4.899	4.887	0.012	93	140420	500.0	486.8	
57 Benzene	78	5.002	5.002	0.000	97	520586	20.0	20.5	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	97	215143	20.0	20.4	
59 n-Heptane	43	5.100	5.100	0.000	90	204161	20.0	21.4	
62 Trichloroethene	95	5.519	5.519	0.000	95	143085	20.0	20.2	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	245784	20.0	20.5	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	91	130413	20.0	20.7	
66 1,4-Dioxane	88	5.842	5.842	0.000	91	29534	400.0	423.9	
67 Dibromomethane	93	5.866	5.866	0.000	94	89319	20.0	20.4	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	163947	20.0	20.5	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	93	73434	20.0	19.9	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	208493	20.0	20.3	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	587035	100.0	102.4	
74 Toluene	92	6.645	6.645	0.000	98	342202	20.0	20.6	
75 Ethyl methacrylate	69	6.876	6.870	0.006	87	166076	20.0	20.6	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	98	192671	20.0	20.8	
79 1,1,2-Trichloroethane	83	7.059	7.065	-0.007	93	96346	20.0	20.5	
81 Tetrachloroethene	166	7.162	7.162	0.000	97	154343	20.0	20.4	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	97	205342	20.0	20.7	
80 2-Hexanone	43	7.247	7.241	0.006	96	422631	100.0	102.0	
83 Chlorodibromomethane	129	7.466	7.466	0.000	88	104294	20.0	18.5	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	117915	20.0	20.4	
87 Chlorobenzene	112	8.044	8.044	0.000	94	374264	20.0	20.5	
88 Ethylbenzene	91	8.111	8.111	0.000	98	642538	20.0	21.2	
89 1,1,1,2-Tetrachloroethane	131	8.129	8.123	0.006	89	119732	20.0	20.4	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	252446	20.0	20.6	
91 o-Xylene	106	8.658	8.658	0.000	97	246824	20.0	20.6	
92 Styrene	104	8.677	8.677	0.000	94	426796	20.0	20.9	
95 Bromoform	173	8.951	8.951	0.000	95	55168	20.0	16.8	
94 Isopropylbenzene	105	9.024	9.024	0.000	96	643751	20.0	20.6	
101 Bromobenzene	156	9.413	9.413	0.000	93	173816	20.0	20.4	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	81	147285	20.0	20.3	
99 N-Propylbenzene	91	9.455	9.455	0.000	99	758597	20.0	20.8	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	60	44694	20.0	19.9	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	87	48977	20.0	19.8	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	151537	20.0	20.2	
102 1,3,5-Trimethylbenzene	105	9.632	9.626	0.006	93	558408	20.0	20.7	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	159413	20.0	20.2	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	125676	20.0	20.2	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	569033	20.0	20.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	704913	20.0	20.7	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	597373	20.0	20.6	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	332702	20.0	20.3	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	95	337831	20.0	20.4	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	553836	20.0	20.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	317727	20.0	20.3	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	80	25376	20.0	18.3	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	218779	20.0	20.5	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	98	127165	20.0	20.2	
121 Naphthalene	128	12.290	12.290	0.000	97	482362	20.0	20.5	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	201808	20.0	20.6	
S 125 1,2-Dichloroethene, Total	1				0			41.2	
S 126 1,3-Dichloropropene, Total	1				0			41.1	
S 123 Total BTEX	1				0			103.6	
S 124 Xylenes, Total	1				0			41.3	

Reagents:

8260 CORP mix_00103	Amount Added: 10.00	Units: uL		
GAS CORP mix_00230	Amount Added: 10.00	Units: uL		
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent	
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent	

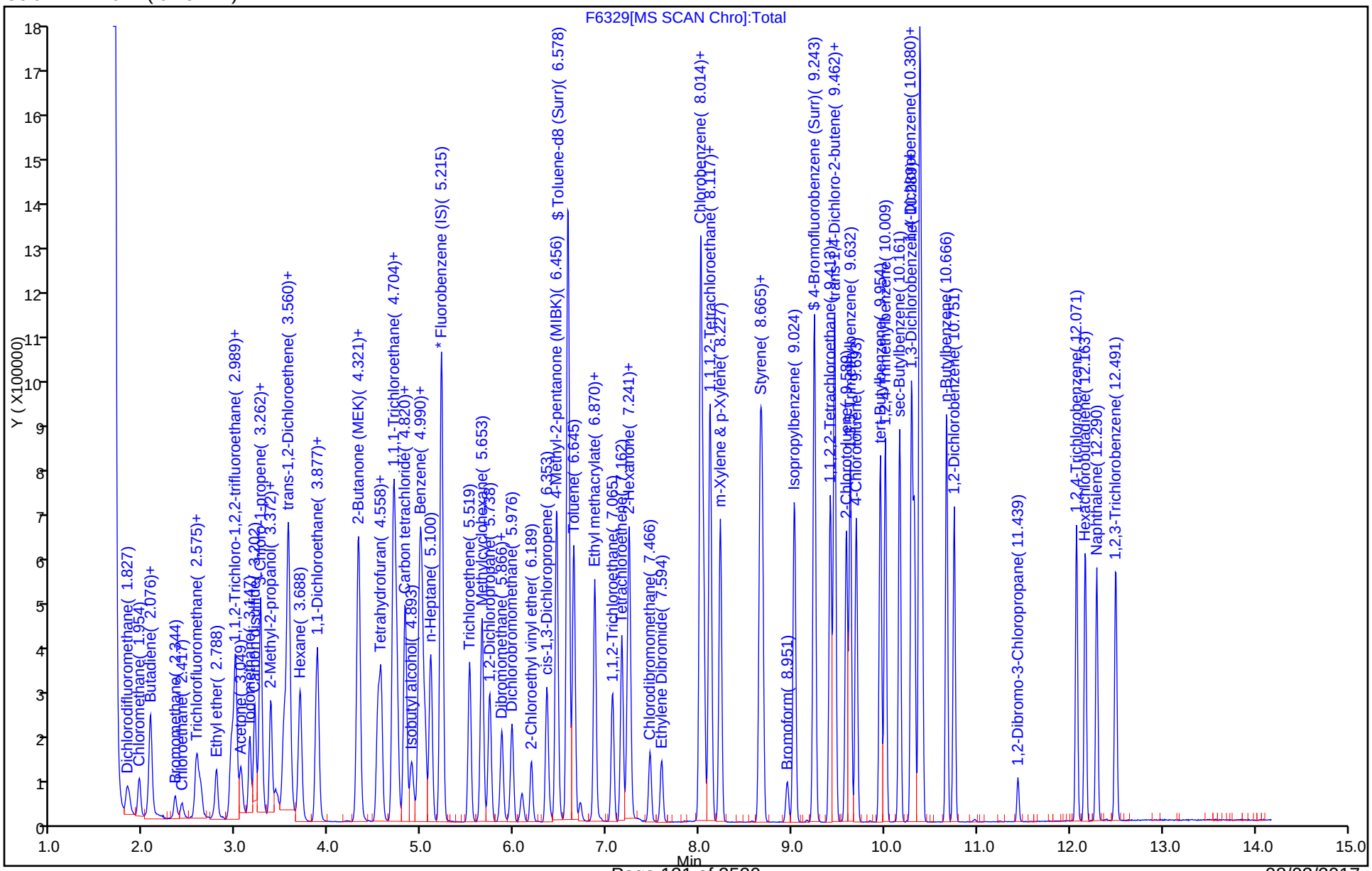
Report Date: 21-Jul-2017 07:11:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6329.D

Injection Date:	20-Jul-2017 13:00:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6330.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 20-Jul-2017 13:25:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0064196-008
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:34 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:15:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	249699	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	86	513779	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	76	521772	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	71	328709	50.0	50.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	213748	50.0	50.4	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	92	1202239	50.0	49.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	89	411389	50.0	50.0	
10 Dichlorodifluoromethane	85	1.827	1.827	0.000	87	381744	50.0	49.2	
12 Chloromethane	50	1.954	1.954	0.000	89	311413	50.0	47.8	
13 Vinyl chloride	62	2.064	2.064	0.000	82	301611	50.0	48.7	
151 Butadiene	54	2.076	2.076	0.000	63	265865	50.0	47.6	
14 Bromomethane	94	2.338	2.338	0.000	90	101419	50.0	46.6	
15 Chloroethane	64	2.417	2.417	0.000	94	94116	50.0	48.7	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	82	337337	50.0	46.5	
17 Trichlorofluoromethane	101	2.605	2.605	0.000	87	378988	50.0	47.4	
18 Ethyl ether	59	2.788	2.788	0.000	88	209421	50.0	50.8	
20 Acrolein	56	2.934	2.934	0.000	94	260409	250.0	252.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	86	330615	50.0	49.4	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	90	299491	50.0	49.5	
23 Acetone	43	3.049	3.049	0.000	99	577992	250.0	254.8	
25 Iodomethane	142	3.147	3.147	0.000	99	616313	50.0	49.2	
26 Carbon disulfide	76	3.195	3.195	0.000	99	1035466	50.0	47.3	
27 Methyl acetate	43	3.256	3.256	0.000	90	1149993	250.0	259.6	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	47	488969	50.0	49.1	
30 Methylene Chloride	84	3.372	3.372	0.000	80	360148	50.0	52.3	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	96	414273	500.0	547.6	
32 Methyl tert-butyl ether	73	3.518	3.518	0.000	85	1047101	50.0	51.8	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	77	338014	50.0	48.7	
33 Acrylonitrile	53	3.567	3.567	0.000	97	1141954	500.0	522.6	
35 Hexane	57	3.688	3.688	0.000	89	492855	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	97	1136990	100.0	104.6	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	71	597370	50.0	49.2	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	67	533678	50.0	50.3	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	97	792178	250.0	274.0	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	72	384257	50.0	50.1	
48 Chlorobromomethane	128	4.522	4.522	0.000	89	184333	50.0	50.6	
49 Tetrahydrofuran	42	4.546	4.546	0.000	68	194222	100.0	107.0	
50 Chloroform	83	4.558	4.558	0.000	80	627303	50.0	49.0	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	90	553979	50.0	50.0	
52 Cyclohexane	56	4.729	4.729	0.000	88	531715	50.0	49.4	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	91	467658	50.0	50.0	
55 Carbon tetrachloride	117	4.832	4.832	0.000	68	441092	50.0	52.1	
53 Isobutyl alcohol	43	4.887	4.887	0.000	69	412434	1250.0	1402.1	
57 Benzene	78	5.002	5.002	0.000	96	1278496	50.0	49.4	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	87	539467	50.0	50.1	
59 n-Heptane	43	5.100	5.100	0.000	88	478499	50.0	49.2	
62 Trichloroethene	95	5.519	5.519	0.000	90	355378	50.0	49.3	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	602359	50.0	49.3	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	86	320235	50.0	49.9	
66 1,4-Dioxane	88	5.842	5.842	0.000	60	81171	1000.0	1085.7	
67 Dibromomethane	93	5.866	5.866	0.000	91	226152	50.0	50.8	
68 Dichlorobromomethane	83	5.976	5.976	0.000	93	428742	50.0	52.6	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	92	198370	50.0	52.8	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	89	553054	50.0	52.9	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1579381	250.0	268.8	
74 Toluene	92	6.645	6.645	0.000	93	835846	50.0	49.2	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	90	507270	50.0	53.4	
75 Ethyl methacrylate	69	6.870	6.870	0.000	75	437086	50.0	53.0	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	88	245609	50.0	51.0	
81 Tetrachloroethene	166	7.162	7.162	0.000	90	385945	50.0	49.8	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	91	516543	50.0	50.7	
80 2-Hexanone	43	7.241	7.241	0.000	92	1154083	250.0	271.9	
83 Chlorodibromomethane	129	7.466	7.466	0.000	87	302519	50.0	47.4	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	303332	50.0	51.2	
87 Chlorobenzene	112	8.044	8.044	0.000	93	918308	50.0	49.2	
88 Ethylbenzene	91	8.111	8.111	0.000	57	1560076	50.0	50.3	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	44	325999	50.0	54.1	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	629311	50.0	50.2	
91 o-Xylene	106	8.658	8.658	0.000	93	610756	50.0	49.8	
92 Styrene	104	8.677	8.677	0.000	93	1049534	50.0	50.3	
95 Bromoform	173	8.951	8.951	0.000	96	181803	50.0	44.8	
94 Isopropylbenzene	105	9.024	9.024	0.000	96	1571829	50.0	49.2	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	69	390962	50.0	52.7	
101 Bromobenzene	156	9.413	9.413	0.000	92	434307	50.0	50.0	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	22	124745	50.0	54.4	
99 N-Propylbenzene	91	9.455	9.455	0.000	98	1842824	50.0	49.4	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	20	129969	50.0	51.6	
103 2-Chlorotoluene	126	9.589	9.589	0.000	95	379075	50.0	49.5	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	73	1358965	50.0	49.3	
105 4-Chlorotoluene	126	9.693	9.693	0.000	81	398034	50.0	49.4	
106 tert-Butylbenzene	134	9.954	9.954	0.000	89	314436	50.0	49.4	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	42	1413205	50.0	49.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1726572	50.0	49.6	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	1481738	50.0	50.1	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	828372	50.0	49.4	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	94	837772	50.0	49.5	
115 n-Butylbenzene	91	10.666	10.666	0.000	94	1364825	50.0	49.8	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	796831	50.0	49.9	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	76	79527	50.0	56.1	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	93	544554	50.0	49.9	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	94	321237	50.0	49.9	
121 Naphthalene	128	12.290	12.290	0.000	97	1256929	50.0	52.4	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	92	506579	50.0	50.7	

Reagents:

8260 CORP mix_00103	Amount Added: 25.00	Units: uL	
GAS CORP mix_00230	Amount Added: 25.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

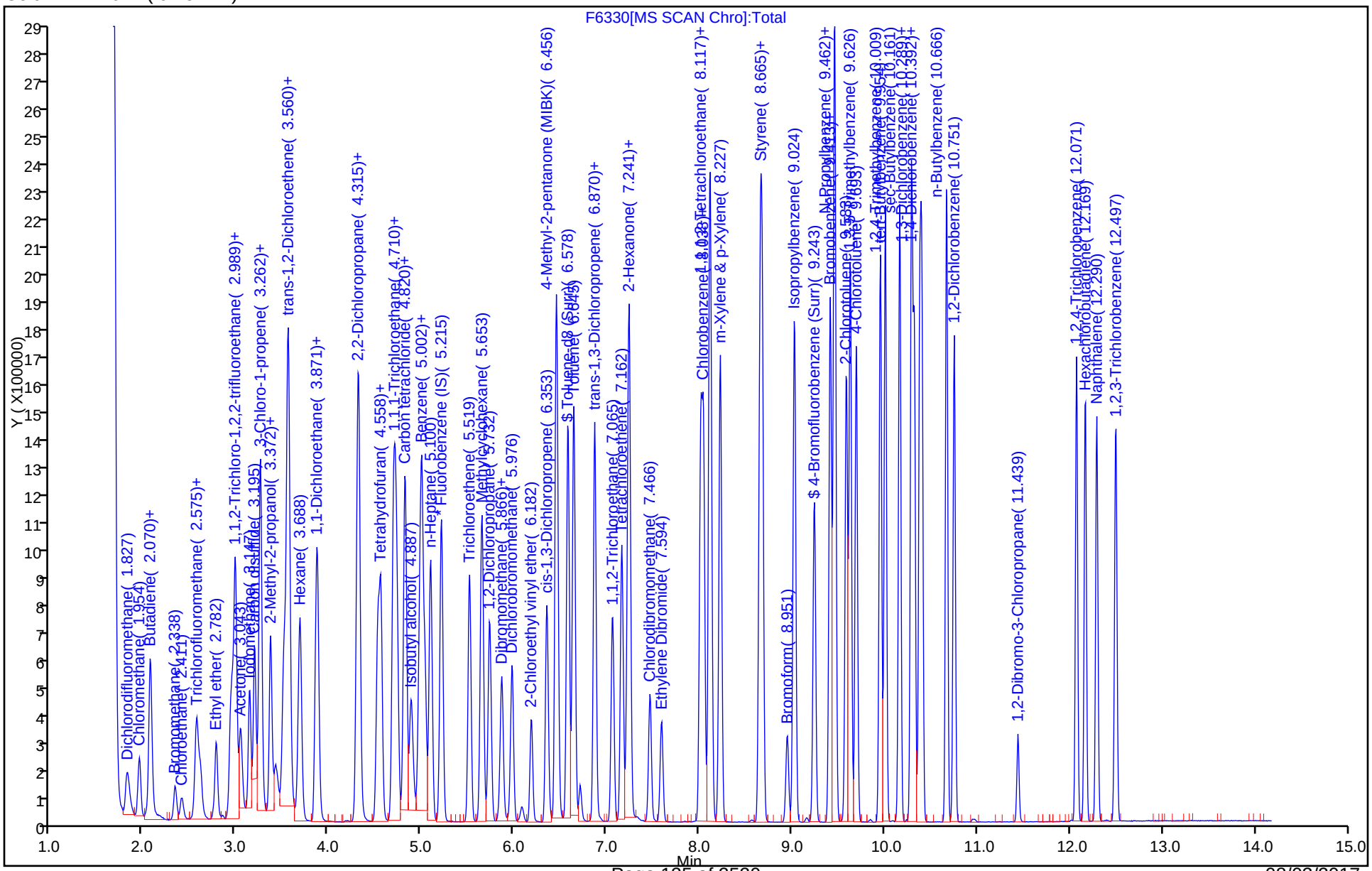
Report Date: 21-Jul-2017 07:11:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6330.D

Injection Date:	20-Jul-2017 13:25:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	ICIS 5			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6331.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Jul-2017 13:50:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0064196-009
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:36 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:23:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.209	5.215	-0.006	98	249261	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	86	509807	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	529068	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.698	-0.006	91	329921	50.0	50.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	213309	50.0	50.4	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	93	1219264	50.0	50.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	90	416905	50.0	51.1	
10 Dichlorodifluoromethane	85	1.815	1.827	-0.012	99	741873	100.0	95.8	
12 Chloromethane	50	1.948	1.954	-0.006	99	605870	100.0	93.2	
13 Vinyl chloride	62	2.058	2.064	-0.006	98	591393	100.0	95.7	
151 Butadiene	54	2.070	2.076	-0.006	90	512635	100.0	92.0	
14 Bromomethane	94	2.338	2.338	0.000	92	208645	100.0	96.0	
15 Chloroethane	64	2.405	2.417	-0.012	99	191114	100.0	100.9	
16 Dichlorofluoromethane	67	2.563	2.569	-0.006	97	671368	100.0	92.6	
17 Trichlorofluoromethane	101	2.593	2.605	-0.012	95	756204	100.0	94.7	
18 Ethyl ether	59	2.776	2.788	-0.012	89	389861	100.0	94.7	
20 Acrolein	56	2.928	2.934	-0.006	100	487499	500.0	473.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.970	-0.006	92	639325	100.0	95.8	
22 1,1-Dichloroethene	96	2.989	2.995	-0.006	97	581513	100.0	96.2	
23 Acetone	43	3.037	3.049	-0.012	99	1039731	500.0	459.1	
25 Iodomethane	142	3.141	3.147	-0.006	100	1203737	100.0	96.2	
26 Carbon disulfide	76	3.189	3.195	-0.006	100	1970515	100.0	90.2	
27 Methyl acetate	43	3.250	3.256	-0.006	96	2104286	500.0	475.9	
28 3-Chloro-1-propene	41	3.256	3.262	-0.006	85	940884	100.0	94.7	
30 Methylene Chloride	84	3.366	3.372	-0.006	91	687823	100.0	101.3	
31 2-Methyl-2-propanol	59	3.421	3.427	-0.006	100	764786	1000.0	1012.7	
32 Methyl tert-butyl ether	73	3.512	3.518	-0.006	94	1980070	100.0	98.1	
34 trans-1,2-Dichloroethene	96	3.548	3.554	-0.006	98	655195	100.0	94.6	
33 Acrylonitrile	53	3.561	3.567	-0.006	97	2077609	1000.0	952.4	
35 Hexane	57	3.682	3.688	-0.006	92	947060	100.0	96.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.859	3.865	-0.006	97	2136567	200.0	197.0	
39 1,1-Dichloroethane	63	3.871	3.877	-0.006	96	1157813	100.0	95.5	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	97	1447892	500.0	501.6	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	69	1043497	100.0	98.6	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	82	736608	100.0	96.2	
48 Chlorobromomethane	128	4.522	4.522	0.000	93	361526	100.0	99.3	
49 Tetrahydrofuran	42	4.540	4.546	-0.006	84	361624	200.0	199.6	
50 Chloroform	83	4.558	4.558	0.000	94	1230364	100.0	96.3	
51 1,1,1-Trichloroethane	97	4.698	4.704	-0.006	98	1100104	100.0	99.4	
52 Cyclohexane	56	4.722	4.729	-0.006	89	1034557	100.0	96.3	
54 1,1-Dichloropropene	75	4.814	4.820	-0.006	96	912737	100.0	97.8	
55 Carbon tetrachloride	117	4.826	4.832	-0.006	98	913747	100.0	108.1	
53 Isobutyl alcohol	43	4.887	4.887	0.000	94	763740	2500.0	2600.9	
57 Benzene	78	5.002	5.002	0.000	96	2453615	100.0	94.9	
58 1,2-Dichloroethane	62	5.033	5.039	-0.006	98	1032689	100.0	96.1	
59 n-Heptane	43	5.094	5.100	-0.006	89	923082	100.0	95.1	
62 Trichloroethene	95	5.513	5.519	-0.006	95	695074	100.0	96.6	
64 Methylcyclohexane	83	5.647	5.653	-0.006	89	1168368	100.0	95.8	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	91	630179	100.0	98.3	
66 1,4-Dioxane	88	5.836	5.842	-0.006	94	148459	2000.0	1975.4	
67 Dibromomethane	93	5.860	5.866	-0.006	95	442414	100.0	99.5	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	885133	100.0	108.8	
69 2-Chloroethyl vinyl ether	63	6.183	6.189	-0.006	94	380764	100.0	101.6	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	1096527	100.0	105.0	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	94	2849063	500.0	488.6	
74 Toluene	92	6.645	6.645	0.000	99	1616962	100.0	95.9	
75 Ethyl methacrylate	69	6.870	6.870	0.000	87	845847	100.0	103.3	
77 trans-1,3-Dichloropropene	75	6.864	6.870	-0.006	95	1015861	100.0	107.7	
79 1,1,2-Trichloroethane	83	7.059	7.065	-0.006	93	476634	100.0	99.7	
81 Tetrachloroethene	166	7.162	7.162	0.000	96	746479	100.0	97.0	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	97	986490	100.0	97.7	
80 2-Hexanone	43	7.241	7.241	0.000	94	2083553	500.0	494.7	
83 Chlorodibromomethane	129	7.466	7.466	0.000	90	647861	100.0	99.0	
84 Ethylene Dibromide	107	7.588	7.594	-0.006	98	604203	100.0	102.7	
87 Chlorobenzene	112	8.044	8.044	0.000	97	1790763	100.0	96.7	
88 Ethylbenzene	91	8.111	8.111	0.000	98	2965117	100.0	96.3	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	92	668575	100.0	111.8	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	1220088	100.0	98.1	
91 o-Xylene	106	8.652	8.658	-0.006	97	1176909	100.0	96.7	
92 Styrene	104	8.677	8.677	0.000	94	2027015	100.0	97.8	
95 Bromoform	173	8.951	8.951	0.001	96	418708	100.0	98.5	
94 Isopropylbenzene	105	9.024	9.024	0.000	97	3041683	100.0	93.8	
101 Bromobenzene	156	9.413	9.413	0.000	92	846905	100.0	96.1	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	76	738707	100.0	98.2	
99 N-Propylbenzene	91	9.462	9.455	0.007	98	3437834	100.0	90.9	
98 trans-1,4-Dichloro-2-buten	53	9.456	9.455	0.001	58	242562	100.0	104.3	
100 1,2,3-Trichloropropane	110	9.468	9.462	0.006	83	242618	100.0	94.9	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	744807	100.0	95.9	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	94	2617115	100.0	93.6	
105 4-Chlorotoluene	126	9.693	9.693	0.000	98	771222	100.0	94.3	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	621466	100.0	96.3	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	2686903	100.0	93.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	3283091	100.0	93.1	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	2836916	100.0	94.5	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	1618609	100.0	95.2	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.001	95	1635606	100.0	95.4	
115 n-Butylbenzene	91	10.666	10.666	0.000	97	2592397	100.0	93.3	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	1547381	100.0	95.6	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	83	161337	100.0	112.3	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	95	1083264	100.0	97.8	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	97	634166	100.0	97.2	
121 Naphthalene	128	12.290	12.290	0.000	97	2424395	100.0	99.6	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	997367	100.0	98.5	
S 125 1,2-Dichloroethene, Total	1				0			190.8	
S 126 1,3-Dichloropropene, Total	1				0			212.7	
S 123 Total BTEX	1				0			481.9	
S 124 Xylenes, Total	1				0			194.8	

Reagents:

8260 CORP mix_00103	Amount Added: 50.00	Units: uL		
GAS CORP mix_00230	Amount Added: 50.00	Units: uL		
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent	
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent	

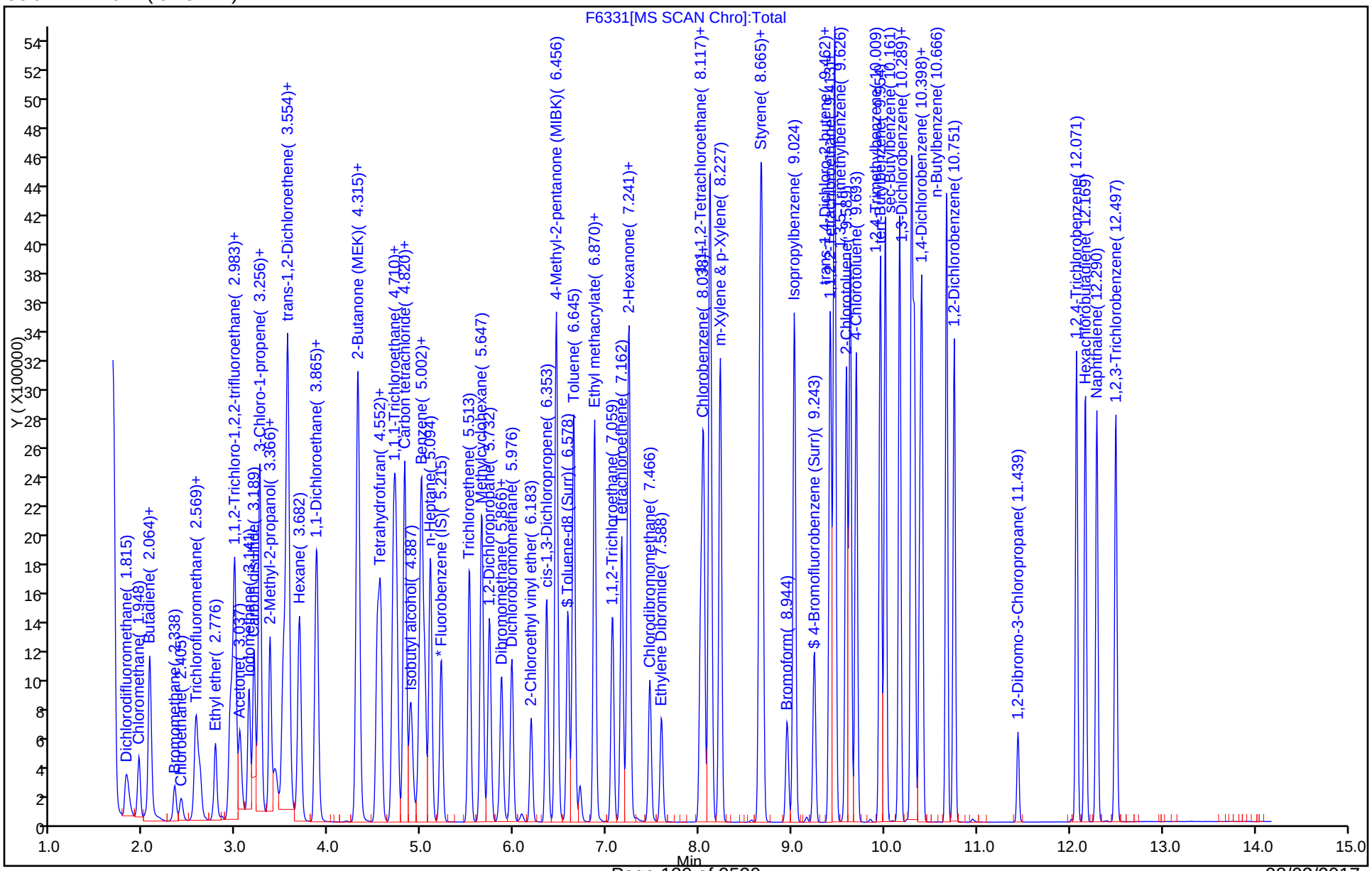
Report Date: 21-Jul-2017 07:11:37 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6331.D

Injection Date:	20-Jul-2017 13:50:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 6			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6332.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Jul-2017 14:16:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0064196-010
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:38 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 15:48:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	251997	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	86	509428	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	525416	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	92	331206	50.0	50.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	210382	50.0	49.1	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	93	1239779	50.0	51.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	95	420445	50.0	51.6	
10 Dichlorodifluoromethane	85	1.833	1.827	0.006	99	1429613	200.0	182.7	
12 Chloromethane	50	1.967	1.954	0.013	99	1165843	200.0	177.4	
13 Vinyl chloride	62	2.076	2.064	0.012	98	1133626	200.0	181.5	
151 Butadiene	54	2.088	2.076	0.012	93	1001545	200.0	177.7	
14 Bromomethane	94	2.350	2.338	0.012	93	421995	200.0	192.0	
15 Chloroethane	64	2.417	2.417	0.000	99	382631	200.0	201.5	
16 Dichlorofluoromethane	67	2.575	2.569	0.006	97	1333487	200.0	182.0	
17 Trichlorofluoromethane	101	2.611	2.605	0.006	99	1501188	200.0	185.9	
18 Ethyl ether	59	2.788	2.788	0.000	89	783815	200.0	188.3	
20 Acrolein	56	2.940	2.934	0.006	99	932528	1000.0	896.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	92	1266344	200.0	187.6	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	98	1131484	200.0	185.1	
23 Acetone	43	3.049	3.049	0.000	100	2033994	1000.0	888.4	
25 Iodomethane	142	3.147	3.147	0.000	99	2337632	200.0	184.8	
26 Carbon disulfide	76	3.202	3.195	0.007	100	3764285	200.0	170.4	
27 Methyl acetate	43	3.262	3.256	0.006	96	3908178	1000.0	874.2	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	87	1783697	200.0	177.6	
30 Methylene Chloride	84	3.372	3.372	0.000	90	1335054	200.0	195.7	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	99	1505047	2000.0	1971.3	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	94	3826867	200.0	187.6	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	99	1252613	200.0	178.9	
33 Acrylonitrile	53	3.567	3.567	0.000	97	3883165	2000.0	1760.7	
35 Hexane	57	3.688	3.688	0.000	92	1810080	200.0	182.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	97	4046103	400.0	368.9	
39 1,1-Dichloroethane	63	3.883	3.877	0.006	96	2235335	200.0	182.4	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	87	2017030	200.0	188.4	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	98	2697481	1000.0	924.4	
45 cis-1,2-Dichloroethene	96	4.327	4.321	0.006	82	1420670	200.0	183.5	
48 Chlorobromomethane	128	4.528	4.522	0.006	91	710828	200.0	193.2	
49 Tetrahydrofuran	42	4.540	4.546	-0.006	84	681039	400.0	371.8	
50 Chloroform	83	4.564	4.558	0.006	94	2374185	200.0	183.8	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	2150762	200.0	192.2	
52 Cyclohexane	56	4.729	4.729	0.001	89	1969972	200.0	181.4	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	96	1733486	200.0	183.8	
55 Carbon tetrachloride	117	4.832	4.832	0.000	98	1851720	200.0	216.8	
53 Isobutyl alcohol	43	4.887	4.887	0.000	93	1487313	5000.0	5010.1	
57 Benzene	78	5.002	5.002	0.000	97	4629602	200.0	177.2	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	98	1988012	200.0	183.0	
59 n-Heptane	43	5.100	5.100	0.000	88	1751083	200.0	178.4	
62 Trichloroethene	95	5.519	5.519	0.000	96	1357877	200.0	186.7	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	2243684	200.0	181.9	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	92	1233710	200.0	190.3	
66 1,4-Dioxane	88	5.848	5.842	0.006	92	297020	4000.0	3924.6	
67 Dibromomethane	93	5.866	5.866	0.000	95	856867	200.0	190.6	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	1794814	200.0	218.3	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	93	742017	200.0	195.9	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	96	2148475	200.0	203.5	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	92	5118631	1000.0	878.5	
74 Toluene	92	6.645	6.645	0.000	98	3089086	200.0	183.3	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	96	1987513	200.0	210.9	
75 Ethyl methacrylate	69	6.870	6.870	0.000	88	1629551	200.0	199.2	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	93	926647	200.0	193.9	
81 Tetrachloroethene	166	7.162	7.162	0.000	96	1443677	200.0	187.8	
82 1,3-Dichloropropane	76	7.229	7.223	0.006	96	1889226	200.0	187.2	
80 2-Hexanone	43	7.241	7.241	0.000	93	3738265	1000.0	888.2	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	1359822	200.0	204.8	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	1173860	200.0	199.8	
87 Chlorobenzene	112	8.044	8.044	0.000	93	3417394	200.0	184.6	
88 Ethylbenzene	91	8.111	8.111	0.000	98	5385473	200.0	175.0	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	93	1335762	200.0	223.5	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	98	2329337	200.0	187.5	
91 o-Xylene	106	8.659	8.658	0.001	96	2278394	200.0	187.3	
92 Styrene	104	8.677	8.677	0.000	93	3839885	200.0	185.5	
95 Bromoform	173	8.951	8.951	0.001	96	909203	200.0	209.1	
94 Isopropylbenzene	105	9.024	9.024	0.000	97	5569835	200.0	173.0	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	77	1381192	200.0	184.9	
101 Bromobenzene	156	9.413	9.413	0.000	90	1656976	200.0	189.4	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	56	450490	200.0	195.0	
99 N-Propylbenzene	91	9.462	9.455	0.007	96	6060485	200.0	161.4	
100 1,2,3-Trichloropropane	110	9.468	9.462	0.006	78	461259	200.0	181.8	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	1434353	200.0	186.0	
102 1,3,5-Trimethylbenzene	105	9.632	9.626	0.006	95	4780011	200.0	172.2	
105 4-Chlorotoluene	126	9.693	9.693	0.000	98	1499790	200.0	184.7	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	1206491	200.0	188.3	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	4929543	200.0	172.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	5843192	200.0	166.8	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	94	5122436	200.0	171.9	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	3070433	200.0	181.8	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.000	93	3082149	200.0	181.0	
115 n-Butylbenzene	91	10.666	10.666	0.000	95	4670385	200.0	169.3	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	2963263	200.0	184.4	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	86	325731	200.0	228.3	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	95	2087551	200.0	189.9	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	97	1236872	200.0	190.9	
121 Naphthalene	128	12.290	12.290	0.000	98	4463512	200.0	184.7	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	1935590	200.0	192.4	
S 123 Total BTEX	1				0			910.3	
S 124 Xylenes, Total	1				0			374.9	
S 125 1,2-Dichloroethene, Total	1				0			362.4	
S 126 1,3-Dichloropropene, Total	1				0			414.4	

Reagents:

8260 CORP mix_00103	Amount Added: 100.00	Units: uL	
GAS CORP mix_00230	Amount Added: 100.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

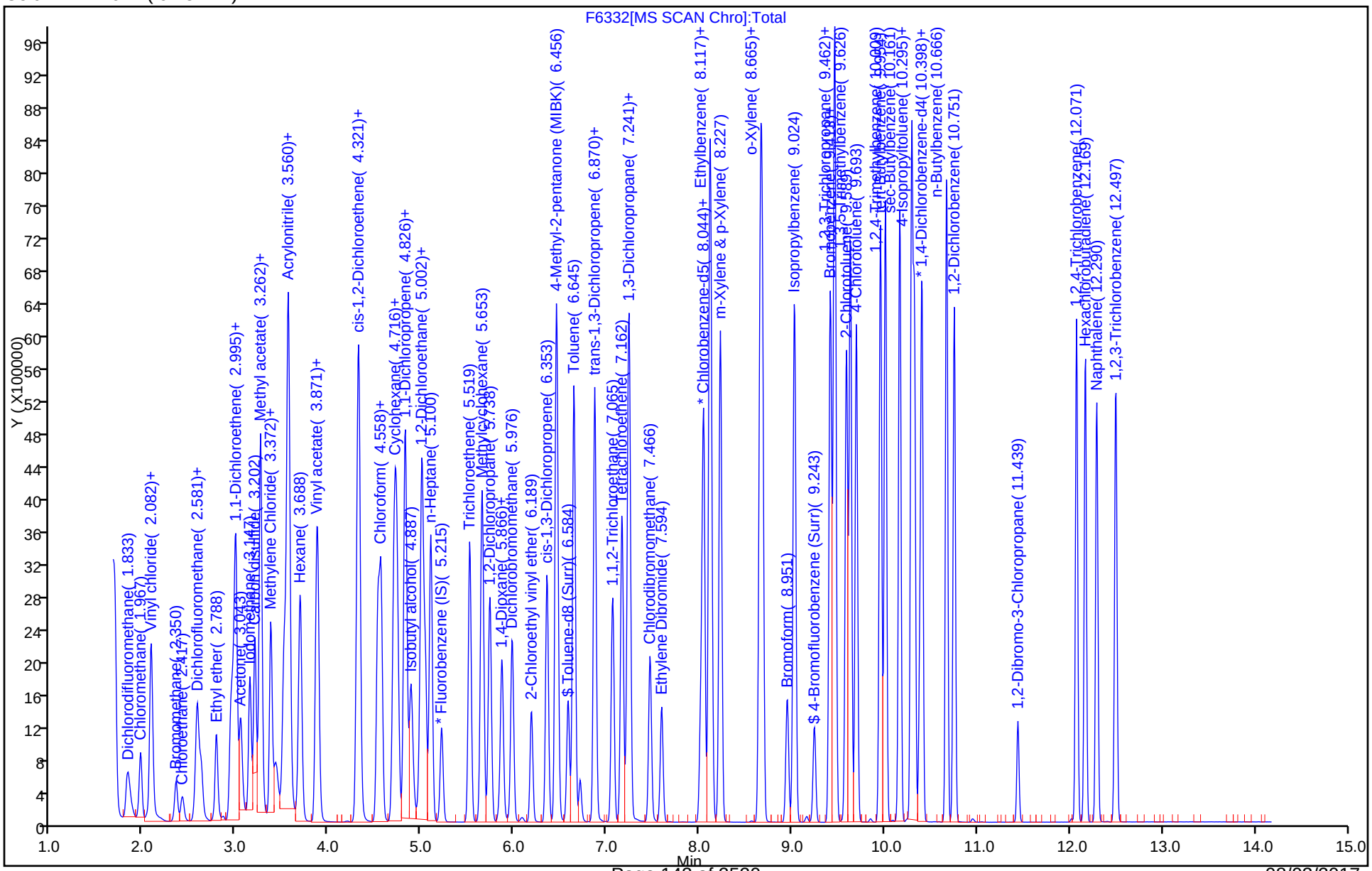
Report Date: 21-Jul-2017 07:11:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6332.D

Injection Date:	20-Jul-2017 14:16:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 7			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368716/3 Calibration Date: 07/26/2017 09:14

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6492.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.553	1.625	0.1000	52.3	50.0	4.7	50.0
Chloromethane	Ave	1.304	1.472	0.1000	56.5	50.0	12.9	20.0
Vinyl chloride	Ave	1.239	1.413	0.1000	57.0	50.0	14.1	20.0
Butadiene	Ave	1.118	1.209		54.1	50.0	8.1	20.0
Bromomethane	Ave	0.4360	0.6846	0.1000	78.5	50.0	57.0*	50.0
Chloroethane	Lin1		0.6789	0.1000	89.1	50.0	78.3*	50.0
Dichlorofluoromethane	Ave	1.454	1.774		61.0	50.0	22.0*	20.0
Trichlorofluoromethane	Ave	1.602	1.848	0.1000	57.7	50.0	15.3	20.0
Ethyl ether	Ave	0.8259	0.8925		54.0	50.0	8.1	20.0
Acrolein	Ave	0.2065	0.2049		248	250	-0.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.339	1.328	0.1000	49.6	50.0	-0.8	20.0
1,1-Dichloroethene	Ave	1.213	1.211	0.1000	49.9	50.0	-0.1	20.0
Acetone	Ave	0.4543	0.4760	0.1000	262	250	4.8	50.0
Iodomethane	Ave	2.510	2.536		50.5	50.0	1.0	20.0
Carbon disulfide	Ave	4.382	4.003	0.1000	45.7	50.0	-8.6	20.0
Allyl chloride	Ave	1.993	2.028		50.9	50.0	1.7	20.0
Methyl acetate	Ave	0.8870	0.8856	0.1000	250	250	-0.2	50.0
Methylene Chloride	Lin1		1.515	0.1000	55.0	50.0	10.0	20.0
2-Methyl-2-propanol	Ave	0.1515	0.1473		486	500	-2.8	50.0
Methyl tert-butyl ether	Ave	4.047	4.212	0.1000	52.0	50.0	4.1	20.0
trans-1,2-Dichloroethene	Ave	1.390	1.415	0.1000	50.9	50.0	1.8	20.0
Acrylonitrile	Ave	0.4376	0.4440		507	500	1.5	20.0
Hexane	Ave	1.974	1.968		49.9	50.0	-0.3	20.0
Vinyl acetate	Ave	2.176	2.460		113	100	13.1	20.0
1,1-Dichloroethane	Ave	2.431	2.500	0.2000	51.4	50.0	2.8	20.0
2,2-Dichloropropane	Ave	2.124	2.283		53.7	50.0	7.5	20.0
2-Butanone (MEK)	Ave	0.5790	0.6241	0.1000	269	250	7.8	20.0
cis-1,2-Dichloroethene	Ave	1.536	1.580	0.1000	51.4	50.0	2.9	20.0
Chlorobromomethane	Ave	0.7302	0.7406		50.7	50.0	1.4	20.0
Tetrahydrofuran	Ave	0.3634	0.3583		98.6	100	-1.4	20.0
Chloroform	Ave	2.562	2.702	0.2000	52.7	50.0	5.5	20.0
1,1,1-Trichloroethane	Ave	2.220	2.344	0.1000	52.8	50.0	5.6	20.0
Cyclohexane	Ave	2.154	2.101	0.1000	48.8	50.0	-2.5	20.0
1,1-Dichloropropene	Ave	1.871	1.926		51.5	50.0	2.9	20.0
Carbon tetrachloride	Ave	1.695	1.991	0.1000	58.7	50.0	17.5	20.0
Isobutyl alcohol	Ave	0.0589	0.0570		1210	1250	-3.2	50.0
Benzene	Ave	5.185	5.307	0.5000	51.2	50.0	2.4	20.0
1,2-Dichloroethane	Ave	2.155	2.236	0.1000	51.9	50.0	3.7	20.0
n-Heptane	Ave	1.947	1.899		48.8	50.0	-2.5	20.0
Trichloroethene	Ave	1.443	1.462	0.2000	50.6	50.0	1.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368716/3 Calibration Date: 07/26/2017 09:14

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6492.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.447	2.366	0.1000	48.3	50.0	-3.3	20.0
1,2-Dichloropropane	Ave	1.286	1.308	0.1000	50.9	50.0	1.7	20.0
1,4-Dioxane	Lin1		0.0057		792	1000	-20.8	50.0
Dibromomethane	Ave	0.8921	0.9065	0.1000	50.8	50.0	1.6	20.0
Bromodichloromethane	Ave	1.632	1.846	0.2000	56.6	50.0	13.1	20.0
2-Chloroethyl vinyl ether	Ave	0.7517	0.7486		49.8	50.0	-0.4	20.0
cis-1,3-Dichloropropene	Ave	2.095	2.215	0.2000	52.9	50.0	5.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5719	0.5709	0.1000	250	250	-0.2	20.0
Toluene	Ave	1.654	1.641	0.4000	49.6	50.0	-0.8	20.0
trans-1,3-Dichloropropene	Ave	0.9251	0.9830	0.1000	53.1	50.0	6.3	20.0
Ethyl methacrylate	Ave	0.8030	0.8192		51.0	50.0	2.0	20.0
1,1,2-Trichloroethane	Ave	0.4691	0.4727	0.1000	50.4	50.0	0.8	20.0
Tetrachloroethene	Ave	0.7545	0.7211	0.2000	47.8	50.0	-4.4	20.0
1,3-Dichloropropane	Ave	0.9905	0.9894		49.9	50.0	-0.1	20.0
2-Hexanone	Ave	0.4131	0.4198	0.1000	254	250	1.6	20.0
Dibromochloromethane	Lin1		0.6203	0.1000	49.7	50.0	-0.5	20.0
1,2-Dibromoethane	Ave	0.5768	0.5817		50.4	50.0	0.9	20.0
Chlorobenzene	Ave	1.817	1.805	0.5000	49.7	50.0	-0.6	20.0
Ethylbenzene	Ave	3.021	3.098	0.1000	51.3	50.0	2.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5866	0.6570		56.0	50.0	12.0	20.0
m,p-Xylene	Ave	1.219	1.230	0.1000	50.4	50.0	0.9	20.0
o-Xylene	Ave	1.194	1.177	0.3000	49.3	50.0	-1.4	20.0
Styrene	Ave	2.032	2.031	0.3000	50.0	50.0	-0.0	20.0
Bromoform	Lin1		0.3799	0.1000	47.8	50.0	-4.4	50.0
Isopropylbenzene	Ave	3.064	3.150	0.1000	51.4	50.0	2.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7107	0.7547	0.3000	53.1	50.0	6.2	20.0
Bromobenzene	Ave	0.8326	0.8420		50.6	50.0	1.1	20.0
N-Propylbenzene	Ave	3.572	3.702		51.8	50.0	3.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2198	0.2402		54.6	50.0	9.3	50.0
1,2,3-Trichloropropane	Ave	0.2415	0.2489		51.5	50.0	3.0	20.0
2-Chlorotoluene	Ave	0.7337	0.7480		51.0	50.0	1.9	20.0
1,3,5-Trimethylbenzene	Ave	2.642	2.730		51.7	50.0	3.3	20.0
4-Chlorotoluene	Ave	0.7726	0.7841		50.7	50.0	1.5	20.0
tert-Butylbenzene	Ave	0.6097	0.6067		49.8	50.0	-0.5	20.0
1,2,4-Trimethylbenzene	Ave	2.721	2.824		51.9	50.0	3.8	20.0
sec-Butylbenzene	Ave	3.333	3.412		51.2	50.0	2.4	20.0
4-Isopropyltoluene	Ave	2.836	2.947		52.0	50.0	3.9	20.0
1,3-Dichlorobenzene	Ave	1.607	1.648	0.6000	51.3	50.0	2.6	20.0
1,4-Dichlorobenzene	Ave	1.620	1.660	0.5000	51.2	50.0	2.4	20.0
n-Butylbenzene	Ave	2.625	2.762		52.6	50.0	5.2	20.0
1,2-Dichlorobenzene	Ave	1.529	1.554	0.4000	50.8	50.0	1.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368716/3 Calibration Date: 07/26/2017 09:14

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6492.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1357	0.1483	0.0500	54.6	50.0	9.2	50.0
1,2,4-Trichlorobenzene	Ave	1.046	1.032	0.2000	49.3	50.0	-1.4	20.0
Hexachlorobutadiene	Ave	0.6167	0.5960		48.3	50.0	-3.3	20.0
Naphthalene	Ave	2.299	2.248		48.9	50.0	-2.2	20.0
1,2,3-Trichlorobenzene	Ave	0.9574	0.9099		47.5	50.0	-5.0	20.0
Dibromofluoromethane (Surr)	Ave	1.312	1.321		50.3	50.0	0.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8495	0.8451		49.7	50.0	-0.5	20.0
Toluene-d8 (Surr)	Ave	2.361	2.316		49.0	50.0	-1.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8002	0.8020		50.1	50.0	0.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6492.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Jul-2017 09:14:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0064328-003
Operator ID: AM/CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 10:07:25 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 26-Jul-2017 10:07:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	221590	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	87	465158	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	457174	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.692	0.000	90	292771	50.0	50.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.972	0.000	0	187272	50.0	49.7	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1077261	50.0	49.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	87	373071	50.0	50.1	
10 Dichlorodifluoromethane	85	1.827	1.827	0.000	99	360187	50.0	52.3	M
12 Chloromethane	50	1.948	1.948	0.000	99	326192	50.0	56.5	
13 Vinyl chloride	62	2.058	2.058	0.000	98	313212	50.0	57.0	
151 Butadiene	54	2.076	2.076	0.000	89	267869	50.0	54.1	
14 Bromomethane	94	2.344	2.344	0.000	92	151692	50.0	78.5	
15 Chloroethane	64	2.411	2.411	0.000	100	150439	50.0	89.1	
16 Dichlorofluoromethane	67	2.563	2.563	0.000	97	393025	50.0	61.0	
17 Trichlorofluoromethane	101	2.599	2.599	0.000	98	409560	50.0	57.7	
18 Ethyl ether	59	2.782	2.782	0.000	88	197768	50.0	54.0	
20 Acrolein	56	2.934	2.934	0.000	100	226996	250.0	248.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	93	294367	50.0	49.6	
22 1,1-Dichloroethene	96	2.988	2.988	0.000	97	268414	50.0	49.9	
23 Acetone	43	3.043	3.043	0.000	99	527395	250.0	261.9	
25 Iodomethane	142	3.141	3.141	0.000	98	561917	50.0	50.5	
26 Carbon disulfide	76	3.195	3.195	0.000	100	887110	50.0	45.7	
28 3-Chloro-1-propene	41	3.256	3.256	0.000	89	449289	50.0	50.9	
27 Methyl acetate	43	3.256	3.256	0.000	96	981230	250.0	249.6	
30 Methylene Chloride	84	3.372	3.372	0.000	92	335792	50.0	55.0	
31 2-Methyl-2-propanol	59	3.420	3.420	0.000	99	326331	500.0	486.1	
32 Methyl tert-butyl ether	73	3.518	3.518	0.000	95	933445	50.0	52.0	
34 trans-1,2-Dichloroethene	96	3.548	3.548	0.000	97	313497	50.0	50.9	
33 Acrylonitrile	53	3.566	3.566	0.000	98	983908	500.0	507.4	
35 Hexane	57	3.688	3.688	0.000	92	436184	50.0	49.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.858	3.858	0.000	97	1090204	100.0	113.1	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	96	553913	50.0	51.4	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	97	691462	250.0	269.5	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	73	505862	50.0	53.7	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	350140	50.0	51.4	
48 Chlorobromomethane	128	4.522	4.522	0.000	94	164108	50.0	50.7	
49 Tetrahydrofuran	42	4.540	4.540	0.000	84	158807	100.0	98.6	
50 Chloroform	83	4.558	4.558	0.000	94	598770	50.0	52.7	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	99	519365	50.0	52.8	
52 Cyclohexane	56	4.728	4.728	0.000	90	465637	50.0	48.8	
54 1,1-Dichloropropene	75	4.814	4.814	0.000	95	426781	50.0	51.5	
55 Carbon tetrachloride	117	4.826	4.826	0.000	97	441150	50.0	58.7	
53 Isobutyl alcohol	43	4.887	4.887	0.000	92	315776	1250.0	1209.7	
57 Benzene	78	5.002	5.002	0.000	97	1176021	50.0	51.2	
58 1,2-Dichloroethane	62	5.033	5.033	0.000	97	495424	50.0	51.9	
59 n-Heptane	43	5.099	5.099	0.000	88	420774	50.0	48.8	
62 Trichloroethene	95	5.513	5.513	0.000	96	323896	50.0	50.6	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	524261	50.0	48.3	
65 1,2-Dichloropropane	63	5.732	5.732	0.000	91	289892	50.0	50.9	
66 1,4-Dioxane	88	5.842	5.842	0.000	92	53031	1000.0	791.9	
67 Dibromomethane	93	5.866	5.866	0.000	96	200876	50.0	50.8	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	409021	50.0	56.6	
69 2-Chloroethyl vinyl ether	63	6.182	6.182	0.000	93	165877	50.0	49.8	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	490720	50.0	52.9	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1327763	250.0	249.6	
74 Toluene	92	6.645	6.645	0.000	98	763551	50.0	49.6	
77 trans-1,3-Dichloropropene	75	6.864	6.864	0.000	95	457265	50.0	53.1	
75 Ethyl methacrylate	69	6.870	6.870	0.000	89	381051	50.0	51.0	
79 1,1,2-Trichloroethane	83	7.064	7.064	0.000	94	219863	50.0	50.4	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	335423	50.0	47.8	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	97	460232	50.0	49.9	
80 2-Hexanone	43	7.241	7.241	0.000	94	976341	250.0	254.1	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	288553	50.0	49.7	
84 Ethylene Dibromide	107	7.588	7.588	0.000	98	270596	50.0	50.4	
87 Chlorobenzene	112	8.044	8.044	0.000	94	839718	50.0	49.7	
88 Ethylbenzene	91	8.111	8.111	0.000	98	1441062	50.0	51.3	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	91	305624	50.0	56.0	
90 m-Xylene & p-Xylene	106	8.226	8.226	0.000	99	571985	50.0	50.4	
91 o-Xylene	106	8.652	8.652	0.000	97	547387	50.0	49.3	
92 Styrene	104	8.677	8.677	0.000	94	944800	50.0	50.0	
95 Bromoform	173	8.944	8.944	0.000	95	176720	50.0	47.8	
94 Isopropylbenzene	105	9.023	9.023	0.000	97	1440202	50.0	51.4	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	76	345038	50.0	53.1	
101 Bromobenzene	156	9.413	9.413	0.000	93	384924	50.0	50.6	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	60	109798	50.0	54.6	
99 N-Propylbenzene	91	9.455	9.455	0.000	98	1692313	50.0	51.8	
100 1,2,3-Trichloropropane	110	9.461	9.461	0.000	83	113770	50.0	51.5	
103 2-Chlorotoluene	126	9.583	9.583	0.000	96	341965	50.0	51.0	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	93	1247887	50.0	51.7	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	358471	50.0	50.7	
106 tert-Butylbenzene	134	9.954	9.954	0.000	92	277376	50.0	49.8	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	98	1291013	50.0	51.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1559988	50.0	51.2	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	1347315	50.0	52.0	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	753635	50.0	51.3	
113 1,4-Dichlorobenzene	146	10.398	10.398	0.000	94	758963	50.0	51.2	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	1262612	50.0	52.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	710428	50.0	50.8	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	81	67779	50.0	54.6	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	471783	50.0	49.3	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	98	272496	50.0	48.3	
121 Naphthalene	128	12.290	12.290	0.000	98	1027607	50.0	48.9	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	94	415989	50.0	47.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00231	Amount Added: 25.00	Units: uL		
8260 CORP mix_00103	Amount Added: 25.00	Units: uL		
F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent	
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent	

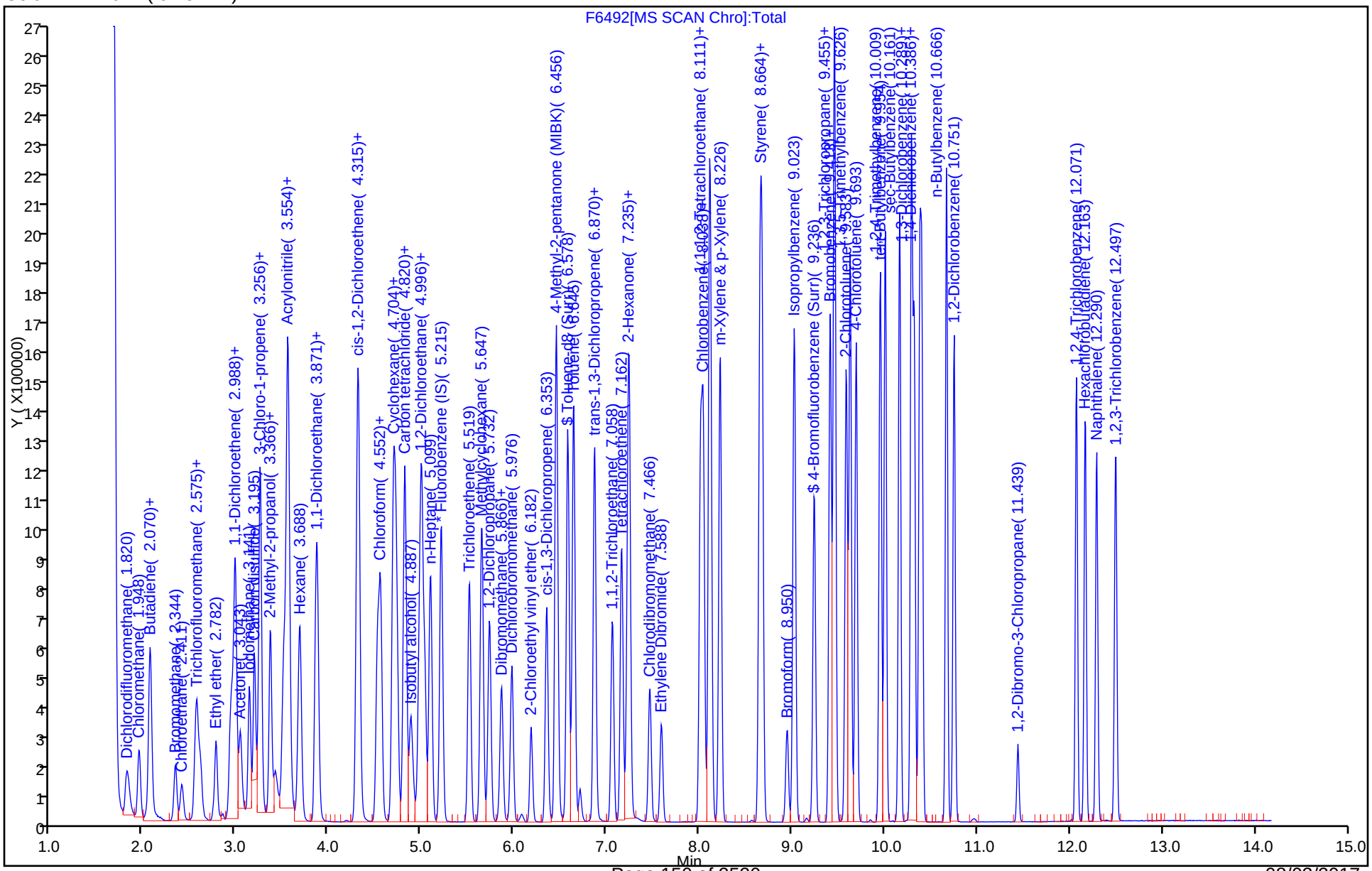
Report Date: 26-Jul-2017 10:07:27 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6492.D

Injection Date:	26-Jul-2017 09:14:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

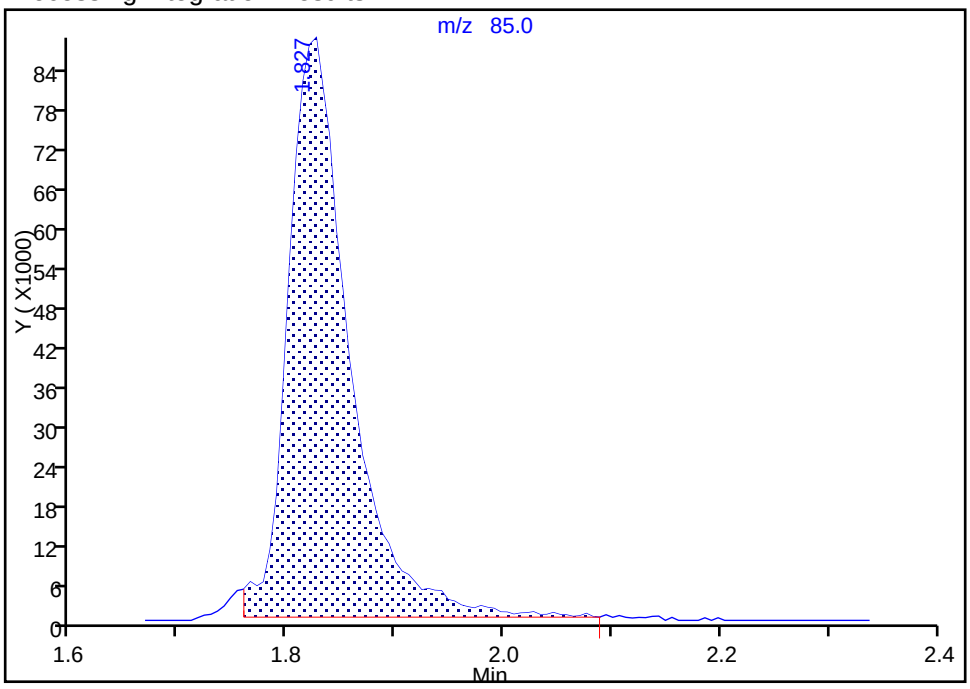
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6492.D
Injection Date: 26-Jul-2017 09:14:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: AM/CDC ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

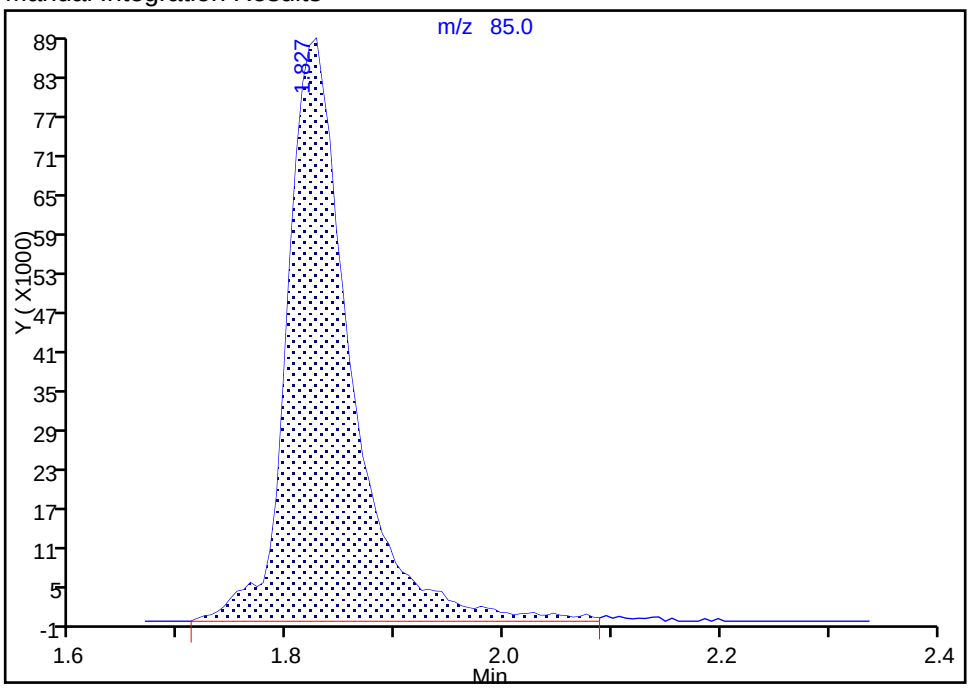
Processing Integration Results

RT: 1.83
Area: 345302
Amount: 50.177603
Amount Units: ug/kg



Manual Integration Results

RT: 1.83
Area: 360187
Amount: 52.340619
Amount Units: ug/kg



Reviewer: moffata, 26-Jul-2017 09:28:50
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368964/3 Calibration Date: 07/27/2017 09:37

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6543.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.553	1.350	0.1000	43.5	50.0	-13.1	50.0
Chloromethane	Ave	1.304	1.338	0.1000	51.3	50.0	2.6	20.0
Vinyl chloride	Ave	1.239	1.266	0.1000	51.1	50.0	2.2	20.0
Butadiene	Ave	1.118	1.060		47.4	50.0	-5.2	20.0
Bromomethane	Ave	0.4360	0.6217	0.1000	71.3	50.0	42.6	50.0
Chloroethane	Lin1		0.5667	0.1000	74.1	50.0	48.2	50.0
Dichlorofluoromethane	Ave	1.454	1.561		53.7	50.0	7.3	20.0
Trichlorofluoromethane	Ave	1.602	1.615	0.1000	50.4	50.0	0.8	20.0
Ethyl ether	Ave	0.8259	0.8564		51.8	50.0	3.7	20.0
Acrolein	Ave	0.2065	0.2104		255	250	1.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.339	1.273	0.1000	47.5	50.0	-5.0	20.0
1,1-Dichloroethene	Ave	1.213	1.171	0.1000	48.3	50.0	-3.4	20.0
Acetone	Ave	0.4543	0.4867	0.1000	268	250	7.1	50.0
Iodomethane	Ave	2.510	2.389		47.6	50.0	-4.8	20.0
Carbon disulfide	Ave	4.382	3.857	0.1000	44.0	50.0	-12.0	20.0
Allyl chloride	Ave	1.993	1.956		49.1	50.0	-1.9	20.0
Methyl acetate	Ave	0.8870	0.9134	0.1000	257	250	3.0	50.0
Methylene Chloride	Lin1		1.476	0.1000	53.5	50.0	7.0	20.0
2-Methyl-2-propanol	Ave	0.1515	0.1480		489	500	-2.3	50.0
Methyl tert-butyl ether	Ave	4.047	3.994	0.1000	49.3	50.0	-1.3	20.0
trans-1,2-Dichloroethene	Ave	1.390	1.388	0.1000	49.9	50.0	-0.1	20.0
Acrylonitrile	Ave	0.4376	0.4608		527	500	5.3	20.0
Hexane	Ave	1.974	1.856		47.0	50.0	-6.0	20.0
Vinyl acetate	Ave	2.176	2.404		110	100	10.5	20.0
1,1-Dichloroethane	Ave	2.431	2.472	0.2000	50.8	50.0	1.7	20.0
2,2-Dichloropropane	Ave	2.124	2.149		50.6	50.0	1.2	20.0
2-Butanone (MEK)	Ave	0.5790	0.6370	0.1000	275	250	10.0	20.0
cis-1,2-Dichloroethene	Ave	1.536	1.550	0.1000	50.4	50.0	0.9	20.0
Chlorobromomethane	Ave	0.7302	0.7271		49.8	50.0	-0.4	20.0
Tetrahydrofuran	Ave	0.3634	0.3710		102	100	2.1	20.0
Chloroform	Ave	2.562	2.594	0.2000	50.6	50.0	1.2	20.0
1,1,1-Trichloroethane	Ave	2.220	2.199	0.1000	49.5	50.0	-0.9	20.0
Cyclohexane	Ave	2.154	1.997	0.1000	46.4	50.0	-7.3	20.0
1,1-Dichloropropene	Ave	1.871	1.870		50.0	50.0	-0.0	20.0
Carbon tetrachloride	Ave	1.695	1.826	0.1000	53.9	50.0	7.8	20.0
Isobutyl alcohol	Ave	0.0589	0.0602		1280	1250	2.1	50.0
Benzene	Ave	5.185	5.197	0.5000	50.1	50.0	0.2	20.0
1,2-Dichloroethane	Ave	2.155	2.173	0.1000	50.4	50.0	0.8	20.0
n-Heptane	Ave	1.947	1.750		44.9	50.0	-10.1	20.0
Trichloroethene	Ave	1.443	1.392	0.2000	48.2	50.0	-3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368964/3 Calibration Date: 07/27/2017 09:37

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6543.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.447	2.226	0.1000	45.5	50.0	-9.0	20.0
1,2-Dichloropropane	Ave	1.286	1.280	0.1000	49.7	50.0	-0.5	20.0
1,4-Dioxane	Lin1		0.0061		843	1000	-15.7	50.0
Dibromomethane	Ave	0.8921	0.8955	0.1000	50.2	50.0	0.4	20.0
Bromodichloromethane	Ave	1.632	1.768	0.2000	54.2	50.0	8.3	20.0
2-Chloroethyl vinyl ether	Ave	0.7517	0.7271		48.4	50.0	-3.3	20.0
cis-1,3-Dichloropropene	Ave	2.095	2.099	0.2000	50.1	50.0	0.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5719	0.5956	0.1000	260	250	4.2	20.0
Toluene	Ave	1.654	1.631	0.4000	49.3	50.0	-1.4	20.0
Ethyl methacrylate	Ave	0.8030	0.8047		50.1	50.0	0.2	20.0
trans-1,3-Dichloropropene	Ave	0.9251	0.9703	0.1000	52.4	50.0	4.9	20.0
1,1,2-Trichloroethane	Ave	0.4691	0.4766	0.1000	50.8	50.0	1.6	20.0
Tetrachloroethene	Ave	0.7545	0.6922	0.2000	45.9	50.0	-8.3	20.0
1,3-Dichloropropane	Ave	0.9905	0.9778		49.4	50.0	-1.3	20.0
2-Hexanone	Ave	0.4131	0.4433	0.1000	268	250	7.3	20.0
Dibromochloromethane	Lin1		0.6011	0.1000	48.3	50.0	-3.4	20.0
1,2-Dibromoethane	Ave	0.5768	0.5803		50.3	50.0	0.6	20.0
Chlorobenzene	Ave	1.817	1.775	0.5000	48.9	50.0	-2.3	20.0
Ethylbenzene	Ave	3.021	3.061	0.1000	50.7	50.0	1.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5866	0.6376		54.4	50.0	8.7	20.0
m,p-Xylene	Ave	1.219	1.197	0.1000	49.1	50.0	-1.9	20.0
o-Xylene	Ave	1.194	1.157	0.3000	48.4	50.0	-3.1	20.0
Styrene	Ave	2.032	1.999	0.3000	49.2	50.0	-1.6	20.0
Bromoform	Lin1		0.3708	0.1000	46.7	50.0	-6.5	50.0
Isopropylbenzene	Ave	3.064	2.875	0.1000	46.9	50.0	-6.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7107	0.7253	0.3000	51.0	50.0	2.1	20.0
Bromobenzene	Ave	0.8326	0.7608		45.7	50.0	-8.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2198	0.2303		52.4	50.0	4.8	50.0
1,2,3-Trichloropropane	Ave	0.2415	0.2323		48.1	50.0	-3.8	20.0
N-Propylbenzene	Ave	3.572	3.422		47.9	50.0	-4.2	20.0
2-Chlorotoluene	Ave	0.7337	0.6888		46.9	50.0	-6.1	20.0
1,3,5-Trimethylbenzene	Ave	2.642	2.495		47.2	50.0	-5.5	20.0
4-Chlorotoluene	Ave	0.7726	0.7227		46.8	50.0	-6.5	20.0
tert-Butylbenzene	Ave	0.6097	0.5467		44.8	50.0	-10.3	20.0
1,2,4-Trimethylbenzene	Ave	2.721	2.603		47.8	50.0	-4.3	20.0
sec-Butylbenzene	Ave	3.333	3.135		47.0	50.0	-5.9	20.0
4-Isopropyltoluene	Ave	2.836	2.671		47.1	50.0	-5.8	20.0
1,3-Dichlorobenzene	Ave	1.607	1.520	0.6000	47.3	50.0	-5.4	20.0
1,4-Dichlorobenzene	Ave	1.620	1.529	0.5000	47.2	50.0	-5.6	20.0
n-Butylbenzene	Ave	2.625	2.497		47.6	50.0	-4.9	20.0
1,2-Dichlorobenzene	Ave	1.529	1.438	0.4000	47.0	50.0	-6.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368964/3 Calibration Date: 07/27/2017 09:37

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6543.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1357	0.1327	0.0500	48.9	50.0	-2.3	50.0
1,2,4-Trichlorobenzene	Ave	1.046	0.9274	0.2000	44.3	50.0	-11.4	20.0
Hexachlorobutadiene	Ave	0.6167	0.5111		41.4	50.0	-17.1	20.0
Naphthalene	Ave	2.299	2.099		45.7	50.0	-8.7	20.0
1,2,3-Trichlorobenzene	Ave	0.9574	0.8316		43.4	50.0	-13.1	20.0
Dibromofluoromethane (Surr)	Ave	1.312	1.261		48.0	50.0	-3.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8495	0.7906		46.5	50.0	-6.9	20.0
Toluene-d8 (Surr)	Ave	2.361	2.272		48.1	50.0	-3.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8002	0.8476		53.0	50.0	5.9	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6543.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Jul-2017 09:37:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0064372-003
Operator ID: AM/CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 10:02:59 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 10:02:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	220045	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.013	8.013	0.000	89	451641	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	475361	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	92	277377	50.0	48.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	173975	50.0	46.5	
$ 5 Toluene-d8 (Surr)	98	6.584	6.584	0.000	94	1026125	50.0	48.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	87	382800	50.0	53.0	
10 Dichlorodifluoromethane	85	1.833	1.833	0.000	99	297076	50.0	43.5	
12 Chloromethane	50	1.954	1.954	0.000	99	294399	50.0	51.3	
13 Vinyl chloride	62	2.064	2.064	0.000	98	278628	50.0	51.1	
151 Butadiene	54	2.082	2.082	0.000	90	233218	50.0	47.4	
14 Bromomethane	94	2.344	2.344	0.000	92	136796	50.0	71.3	
15 Chloroethane	64	2.417	2.417	0.000	99	124702	50.0	74.1	
16 Dichlorofluoromethane	67	2.575	2.575	0.000	97	343396	50.0	53.7	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	355460	50.0	50.4	
18 Ethyl ether	59	2.788	2.788	0.000	89	188452	50.0	51.8	
20 Acrolein	56	2.940	2.940	0.000	99	231529	250.0	254.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.976	2.976	0.000	93	280036	50.0	47.5	
22 1,1-Dichloroethene	96	2.994	2.994	0.000	97	257734	50.0	48.3	
23 Acetone	43	3.049	3.049	0.000	99	535419	250.0	267.8	
25 Iodomethane	142	3.147	3.147	0.000	99	525665	50.0	47.6	
26 Carbon disulfide	76	3.201	3.201	0.000	100	848787	50.0	44.0	
27 Methyl acetate	43	3.262	3.262	0.000	95	1004969	250.0	257.4	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	79	430299	50.0	49.1	
30 Methylene Chloride	84	3.372	3.372	0.000	92	324764	50.0	53.5	
31 2-Methyl-2-propanol	59	3.426	3.426	0.000	99	325722	500.0	488.6	
32 Methyl tert-butyl ether	73	3.524	3.524	0.000	95	878820	50.0	49.3	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	98	305413	50.0	49.9	
33 Acrylonitrile	53	3.566	3.566	0.000	98	1013992	500.0	526.5	
35 Hexane	57	3.688	3.688	0.000	93	408343	50.0	47.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.871	3.871	0.000	98	1057979	100.0	110.5	
39 1,1-Dichloroethane	63	3.883	3.883	0.000	96	543980	50.0	50.8	
44 2,2-Dichloropropane	77	4.315	4.315	0.000	69	472985	50.0	50.6	
43 2-Butanone (MEK)	43	4.315	4.315	0.000	98	700830	250.0	275.0	
45 cis-1,2-Dichloroethene	96	4.327	4.327	0.000	83	340982	50.0	50.4	
48 Chlorobromomethane	128	4.528	4.528	0.000	92	159985	50.0	49.8	
49 Tetrahydrofuran	42	4.546	4.546	0.000	84	163285	100.0	102.1	
50 Chloroform	83	4.564	4.564	0.000	94	570796	50.0	50.6	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	483939	50.0	49.5	
52 Cyclohexane	56	4.728	4.728	0.000	90	439472	50.0	46.4	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	96	411405	50.0	50.0	
55 Carbon tetrachloride	117	4.826	4.826	0.000	97	401901	50.0	53.9	
53 Isobutyl alcohol	43	4.886	4.886	0.000	93	330963	1250.0	1276.8	
57 Benzene	78	5.002	5.002	0.000	96	1143469	50.0	50.1	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	97	478122	50.0	50.4	
59 n-Heptane	43	5.099	5.099	0.000	88	385038	50.0	44.9	
62 Trichloroethene	95	5.519	5.519	0.000	95	306366	50.0	48.2	
64 Methylcyclohexane	83	5.653	5.653	0.000	90	489803	50.0	45.5	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	90	281606	50.0	49.7	
66 1,4-Dioxane	88	5.854	5.854	0.000	70	54933	1000.0	842.9	
67 Dibromomethane	93	5.866	5.866	0.000	95	197057	50.0	50.2	
68 Dichlorobromomethane	83	5.982	5.982	0.000	99	388979	50.0	54.2	
69 2-Chloroethyl vinyl ether	63	6.188	6.188	0.000	93	159991	50.0	48.4	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	461850	50.0	50.1	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	1344996	250.0	260.4	
74 Toluene	92	6.645	6.645	0.000	98	736640	50.0	49.3	
75 Ethyl methacrylate	69	6.870	6.870	0.000	88	363451	50.0	50.1	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	96	438247	50.0	52.4	
79 1,1,2-Trichloroethane	83	7.064	7.064	0.000	94	215229	50.0	50.8	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	312622	50.0	45.9	
82 1,3-Dichloropropane	76	7.229	7.229	0.000	97	441598	50.0	49.4	
80 2-Hexanone	43	7.247	7.247	0.000	95	1001084	250.0	268.3	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	271458	50.0	48.3	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	262093	50.0	50.3	
87 Chlorobenzene	112	8.044	8.044	0.000	93	801723	50.0	48.9	
88 Ethylbenzene	91	8.111	8.111	0.000	99	1382540	50.0	50.7	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	91	287983	50.0	54.4	
90 m-Xylene & p-Xylene	106	8.226	8.226	0.000	99	540429	50.0	49.1	
91 o-Xylene	106	8.652	8.652	0.000	97	522327	50.0	48.4	
92 Styrene	104	8.677	8.677	0.000	94	902869	50.0	49.2	
95 Bromoform	173	8.950	8.950	0.000	94	167468	50.0	46.7	
94 Isopropylbenzene	105	9.023	9.023	0.000	97	1366763	50.0	46.9	
101 Bromobenzene	156	9.413	9.413	0.000	94	361635	50.0	45.7	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	78	344770	50.0	51.0	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	44	109475	50.0	52.4	
99 N-Propylbenzene	91	9.461	9.461	0.000	98	1626854	50.0	47.9	
100 1,2,3-Trichloropropane	110	9.461	9.461	0.000	54	110415	50.0	48.1	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	327444	50.0	46.9	
102 1,3,5-Trimethylbenzene	105	9.632	9.632	0.000	94	1186143	50.0	47.2	
105 4-Chlorotoluene	126	9.692	9.692	0.000	99	343535	50.0	46.8	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	259867	50.0	44.8	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	98	1237435	50.0	47.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1490096	50.0	47.0	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	1269554	50.0	47.1	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	722668	50.0	47.3	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	95	726923	50.0	47.2	
115 n-Butylbenzene	91	10.672	10.672	0.000	98	1187020	50.0	47.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	683641	50.0	47.0	
117 1,2-Dibromo-3-Chloropropan	75	11.438	11.438	0.000	82	63067	50.0	48.9	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	440824	50.0	44.3	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	98	242977	50.0	41.4	
121 Naphthalene	128	12.290	12.290	0.000	97	997952	50.0	45.7	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	94	395299	50.0	43.4	

Reagents:

GAS CORP mix_00231	Amount Added: 25.00	Units: uL	
8260 CORP mix_00103	Amount Added: 25.00	Units: uL	
F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

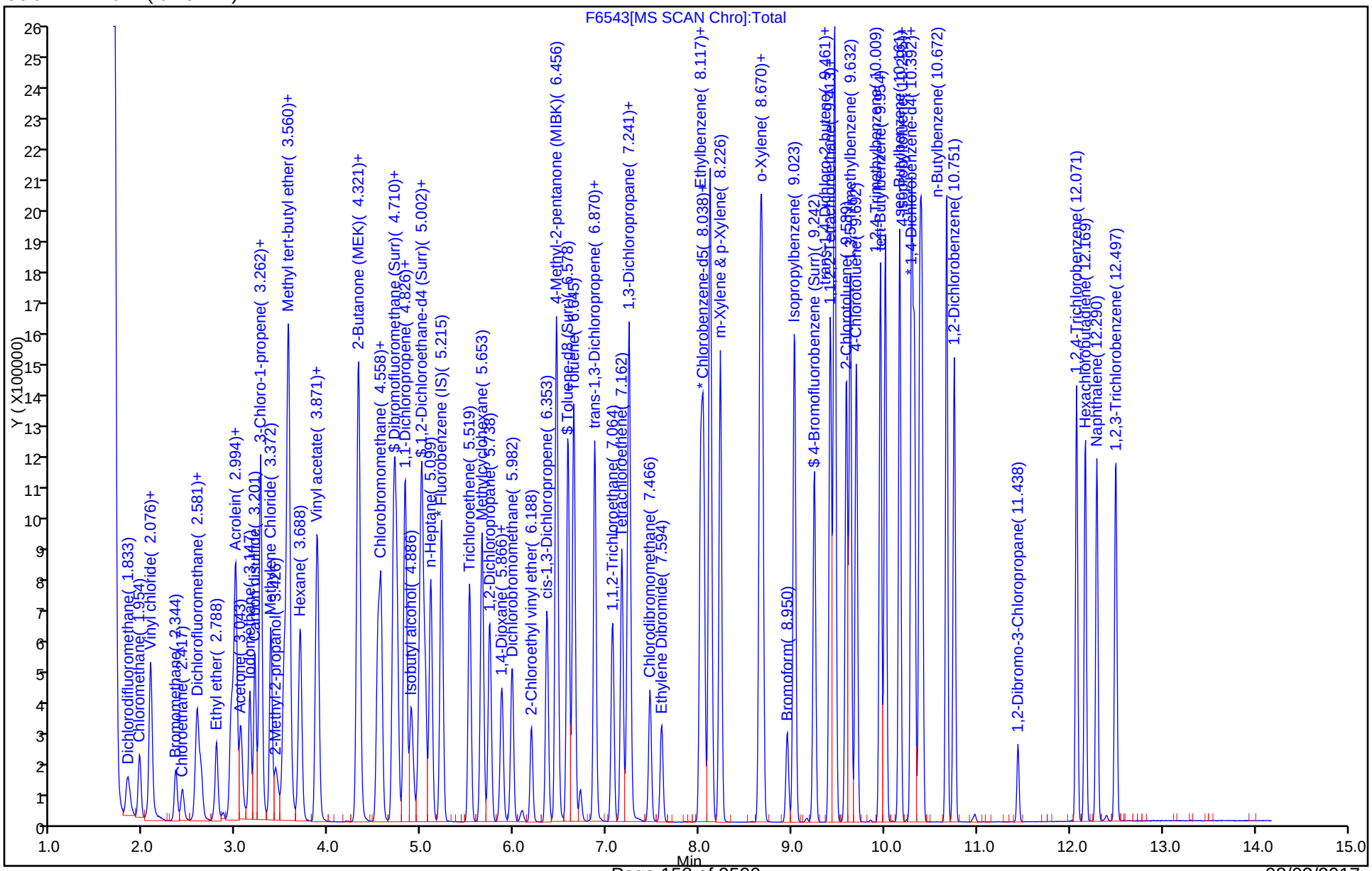
Report Date: 27-Jul-2017 10:03:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6543.D

Injection Date:	27-Jul-2017 09:37:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6324.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	20-Jul-2017 10:51:30	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0064196-002				
Operator ID:	CDC	Instrument ID:	HP5973F		
Method:	\\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	20-Jul-2017 22:51:22	Calib Date:	20-Jul-2017 17:41:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK024				
First Level Reviewer: cwiklinc		Date:	20-Jul-2017 10:56:08		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.363	5.363	0.000	0	117615	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

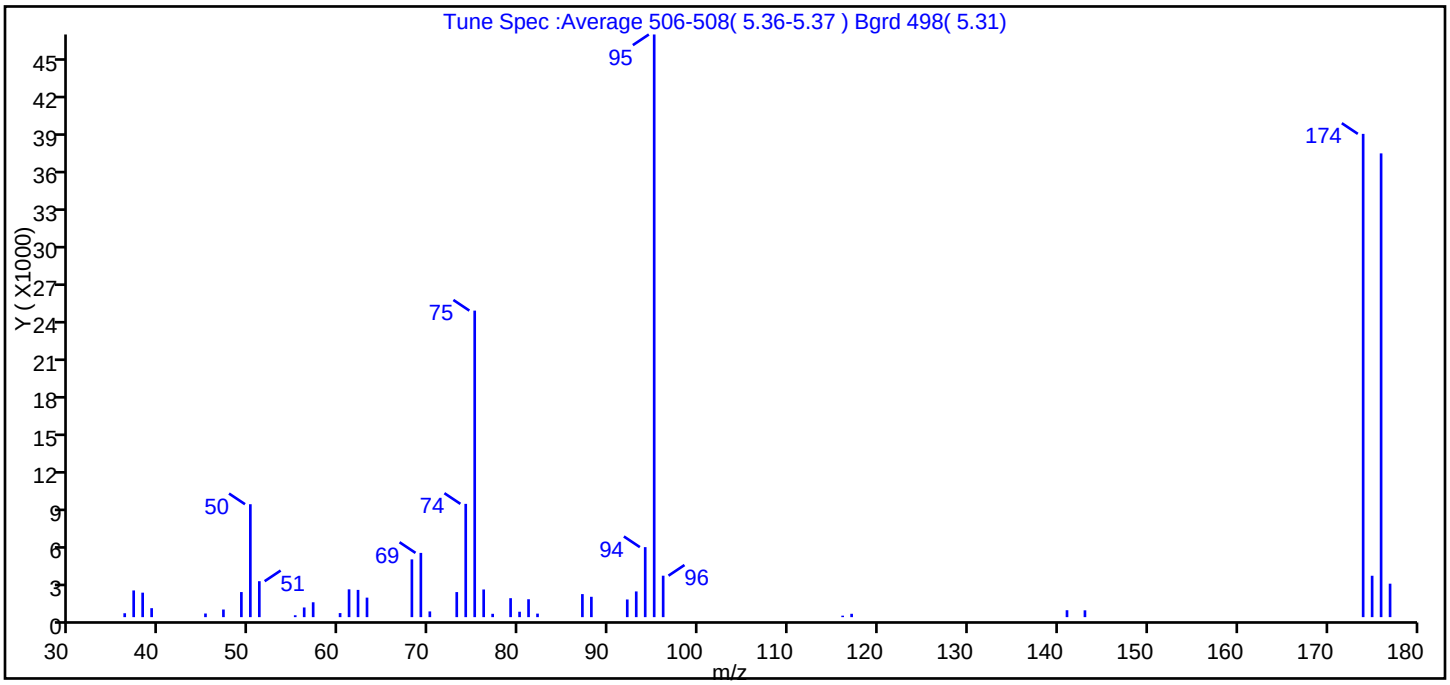
BFB_WRK_00063 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6324.D
Injection Date: 20-Jul-2017 10:51:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.4
75	30 to 60% of m/z 95	52.6
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.9
175	5 to 9% of m/z 174	7.1 (8.6)
176	Greater than 95% but less than 101% of m/z 174	79.6 (96.0)
177	5 to 9% of m/z 176	5.7 (7.2)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6324.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 20-Jul-2017 10:51:30
Spectrum: Tune Spec :Average 506-508(5.36-5.37) Bgrd 498(5.31)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	313	57.00	1195	76.00	2223	95.00	46808
37.00	2145	60.00	326	77.00	269	96.00	3330
38.00	1967	61.00	2234	79.00	1524	116.00	118
39.00	721	62.00	2189	80.00	435	117.00	270
45.00	292	63.00	1568	81.00	1438	141.00	556
47.00	613	68.00	4640	82.00	284	143.00	548
49.00	2015	69.00	5161	87.00	1851	174.00	38824
50.00	9072	70.00	460	88.00	1635	175.00	3325
51.00	2887	73.00	2014	92.00	1420	176.00	37256
55.00	151	74.00	9100	93.00	2066	177.00	2689
56.00	778	75.00	24624	94.00	5624		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6491.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Jul-2017 08:47:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0064328-002
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 08:52:48 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 26-Jul-2017 08:52:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.351	5.351	0.000	0	137154	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

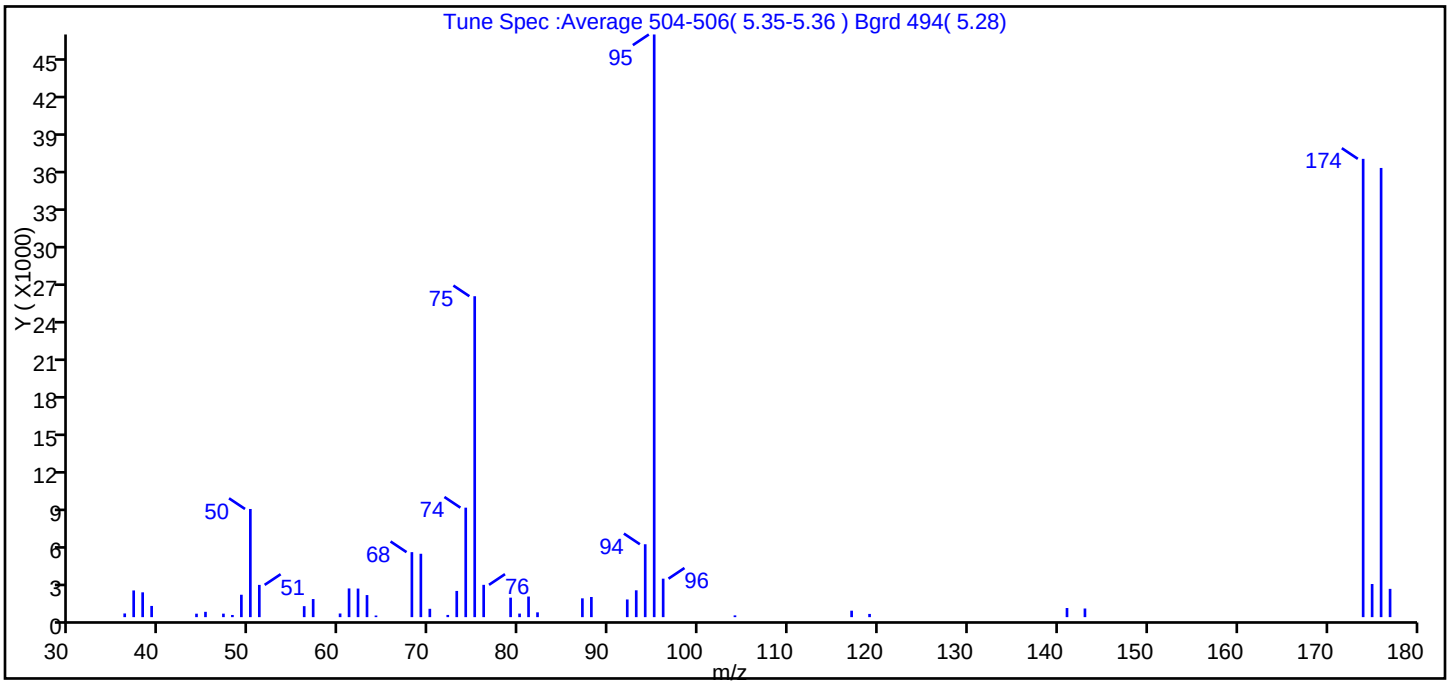
BFB_WRK_00063 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6491.D
Injection Date: 26-Jul-2017 08:47:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: AM/CDC ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.6
75	30 to 60% of m/z 95	55.1
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	78.7
175	5 to 9% of m/z 174	5.7 (7.2)
176	Greater than 95% but less than 101% of m/z 174	77.1 (98.0)
177	5 to 9% of m/z 176	4.9 (6.3)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6491.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 26-Jul-2017 08:47:30
Spectrum: Tune Spec :Average 504-506(5.35-5.36) Bgrd 494(5.28)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	294	57.00	1446	75.00	25640	96.00	3074
37.00	2133	60.00	292	76.00	2582	104.00	140
38.00	1983	61.00	2294	79.00	1557	117.00	516
39.00	896	62.00	2283	80.00	285	119.00	257
44.00	277	63.00	1764	81.00	1646	141.00	729
45.00	425	64.00	130	82.00	384	143.00	690
47.00	280	68.00	5193	87.00	1503	174.00	36616
48.00	173	69.00	5064	88.00	1610	175.00	2647
49.00	1790	70.00	666	92.00	1413	176.00	35888
50.00	8642	72.00	177	93.00	2144	177.00	2259
51.00	2577	73.00	2094	94.00	5824		
56.00	878	74.00	8747	95.00	46552		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6542.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 27-Jul-2017 09:12:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0064372-002
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 09:15:58 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 09:15:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.364	5.364	0.000	0	82414	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

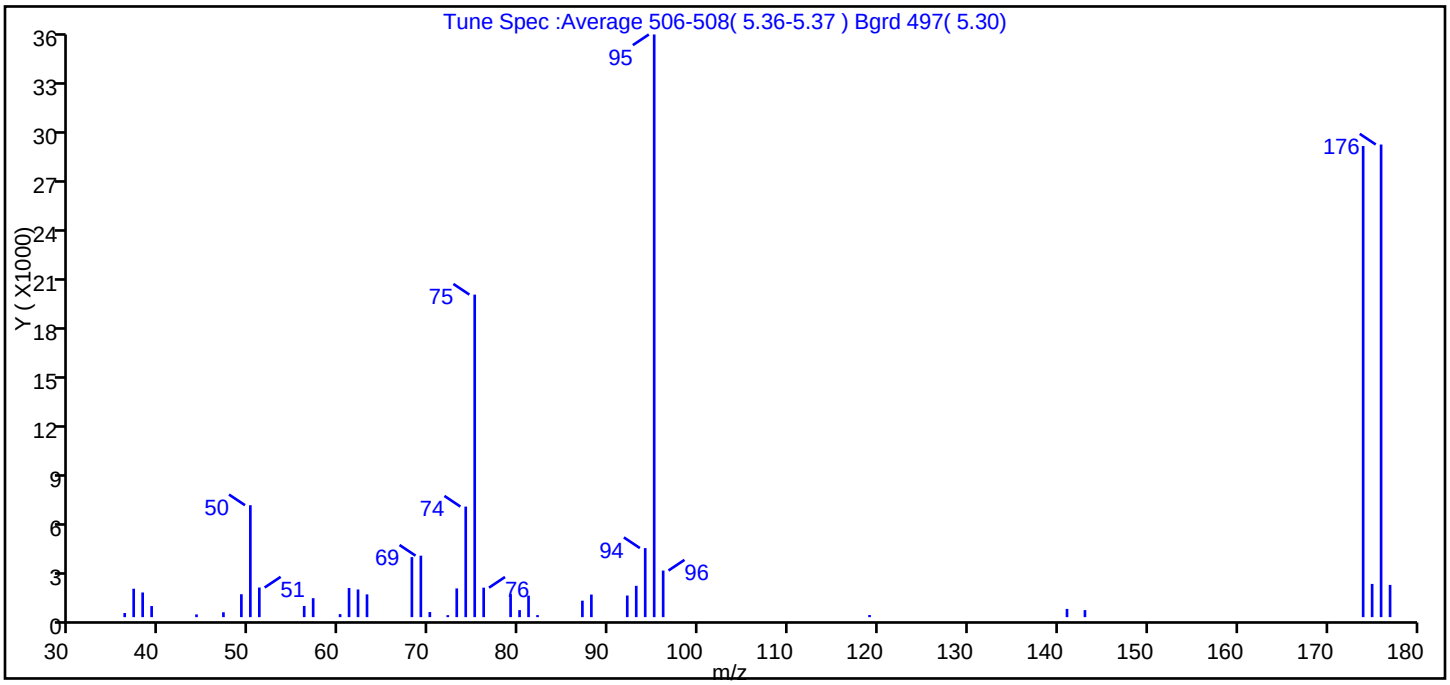
BFB_WRK_00063 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6542.D
Injection Date: 27-Jul-2017 09:12:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: AM/CDC ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.2
75	30 to 60% of m/z 95	55.4
96	5 to 9% of m/z 95	8.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.9
175	5 to 9% of m/z 174	5.7 (7.0)
176	Greater than 95% but less than 101% of m/z 174	81.1 (100.3)
177	5 to 9% of m/z 176	5.5 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6542.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 27-Jul-2017 09:12:30
Spectrum: Tune Spec :Average 506-508(5.36-5.37) Bgrd 497(5.30)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	248	60.00	183	76.00	1772	96.00	2802
37.00	1709	61.00	1751	79.00	1382	119.00	127
38.00	1483	62.00	1664	80.00	423	141.00	495
39.00	667	63.00	1369	81.00	1293	143.00	424
44.00	164	68.00	3609	82.00	122	174.00	28328
47.00	294	69.00	3696	87.00	990	175.00	1997
49.00	1378	70.00	307	88.00	1358	176.00	28416
50.00	6729	72.00	120	92.00	1300	177.00	1939
51.00	1781	73.00	1727	93.00	1884		
56.00	673	74.00	6647	94.00	4152		
57.00	1141	75.00	19392	95.00	35032		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368757/2-A

Matrix: Solid | Lab File ID: F6496.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/26/2017 11:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	0.423	J	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
591-78-6	2-Hexanone	ND		25	2.5
78-93-3	2-Butanone (MEK)	ND		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	5.58	J	25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
110-82-7	Cyclohexane	ND		5.0	0.70
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
98-82-8	Isopropylbenzene	ND		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368757/2-A

Matrix: Solid | Lab File ID: F6496.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/26/2017 11:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	3.0
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
100-42-5	Styrene	ND		5.0	0.25
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
2037-26-5	Toluene-d8 (Surr)	94		71-125
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6496.D
Lims ID: MB 480-368757/2-A
Client ID:
Sample Type: MB
Inject. Date: 26-Jul-2017 11:23:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0064328-007
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 11:35:20 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 26-Jul-2017 11:35:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.209	5.215	-0.006	98	212535	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	456913	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	426851	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.692	0.000	92	273384	50.0	49.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.972	0.000	0	184880	50.0	51.2	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1012857	50.0	46.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	89	345927	50.0	47.3	
10 Dichlorodifluoromethane	85		1.827					ND	
11 Chlorodifluoromethane	51		1.833					ND	
12 Chloromethane	50		1.948					ND	
13 Vinyl chloride	62		2.058					ND	
151 Butadiene	54		2.076					ND	
14 Bromomethane	94		2.344					ND	
15 Chloroethane	64		2.411					ND	
16 Dichlorofluoromethane	67		2.563					ND	
17 Trichlorofluoromethane	101		2.599					ND	
148 Ethanol	45		2.764					ND	
18 Ethyl ether	59		2.782					ND	
19 Propene oxide	58		2.873					ND	
20 Acrolein	56		2.934					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.970					ND	
22 1,1-Dichloroethene	96		2.988					ND	
23 Acetone	43	3.055	3.043	0.012	98	10772		5.58	
24 Isopropyl alcohol	45		3.135					ND	
25 Iodomethane	142		3.141					ND	
26 Carbon disulfide	76		3.195					ND	
28 3-Chloro-1-propene	41		3.256					ND	
27 Methyl acetate	43		3.256					ND	
29 Acetonitrile	40		3.299					ND	
31 2-Methyl-2-propanol	59		3.420					ND	
32 Methyl tert-butyl ether	73		3.518					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
34 trans-1,2-Dichloroethene	96		3.548					ND	
33 Acrylonitrile	53		3.566					ND	
35 Hexane	57	3.688	3.688	0.000	89	3242		0.3865	
134 Halothane	117		3.834					ND	
36 Isopropyl ether	45		3.840					ND	
37 Vinyl acetate	43		3.858					ND	
39 1,1-Dichloroethane	63		3.877					ND	
38 1,1-Dimethoxyethane	75		3.907					ND	
40 2-Chloro-1,3-butadiene	53		3.925					ND	
41 Tert-butyl ethyl ether	59		4.108					ND	
42 Ethyl acetate	43		4.303					ND	
43 2-Butanone (MEK)	43		4.309					ND	
44 2,2-Dichloropropane	77		4.309					ND	
45 cis-1,2-Dichloroethene	96		4.321					ND	
46 Propionitrile	54		4.406					ND	
47 Methacrylonitrile	41		4.491					ND	
48 Chlorobromomethane	128		4.522					ND	
49 Tetrahydrofuran	42		4.540					ND	
50 Chloroform	83		4.558					ND	
51 1,1,1-Trichloroethane	97		4.704					ND	
52 Cyclohexane	56		4.728					ND	
54 1,1-Dichloropropene	75		4.814					ND	
55 Carbon tetrachloride	117		4.826					ND	
53 Isobutyl alcohol	43		4.887					ND	
147 t-Amyl alcohol	59		4.960					ND	
152 Isooctane	57		4.966					ND	
57 Benzene	78		5.002					ND	
56 Tert-amyl methyl ether	73		5.021					ND	
58 1,2-Dichloroethane	62		5.033					ND	
59 n-Heptane	43		5.099					ND	
1 1,4-Difluorobenzene	114		5.276					ND	
136 2,4,4-Trimethyl-1-pentene	55		5.404					ND	
60 n-Butanol	56		5.422					ND	
62 Trichloroethene	95		5.513					ND	
137 Ethyl acrylate	55		5.586					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.586					ND	
64 Methylcyclohexane	83		5.653					ND	
65 1,2-Dichloropropane	63		5.732					ND	
63 Methyl methacrylate	41		5.751					ND	
66 1,4-Dioxane	88		5.842					ND	
67 Dibromomethane	93		5.866					ND	
68 Dichlorobromomethane	83		5.976					ND	
69 2-Chloroethyl vinyl ether	63		6.182					ND	
70 2-Nitropropane	43		6.189					ND	
71 Epichlorohydrin	57		6.298					ND	
72 cis-1,3-Dichloropropene	75		6.353					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456					ND	
74 Toluene	92	6.639	6.645	-0.006	95	3413		0.2258	
76 2-Methylthiophene	97		6.779					ND	
77 trans-1,3-Dichloropropene	75		6.864					ND	
75 Ethyl methacrylate	69		6.870					ND	
78 3-Methylthiophene	97		6.931					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
79 1,1,2-Trichloroethane	83		7.064					ND	
81 Tetrachloroethene	166		7.162					ND	
82 1,3-Dichloropropane	76		7.223					ND	
80 2-Hexanone	43	7.253	7.241	0.012	94	6259		1.66	
155 n-Butyl acetate	43		7.320					ND	
83 Chlorodibromomethane	129		7.466					ND	
84 Ethylene Dibromide	107		7.588					ND	
146 1-Chlorohexane	55		7.947					ND	
85 3-Chlorobenzotrifluoride	180		7.947					ND	
86 4-Chlorobenzotrifluoride	180		8.008					ND	
87 Chlorobenzene	112		8.044					ND	
88 Ethylbenzene	91		8.111					ND	
89 1,1,1,2-Tetrachloroethane	131		8.123					ND	
90 m-Xylene & p-Xylene	106		8.226					ND	
91 o-Xylene	106		8.652					ND	
92 Styrene	104		8.677					ND	
93 2-Chlorobenzotrifluoride	180		8.932					ND	
95 Bromoform	173		8.944					ND	
94 Isopropylbenzene	105		9.023					ND	
96 Cyclohexanone	55		9.224					ND	
97 1,1,2,2-Tetrachloroethane	83		9.413					ND	
101 Bromobenzene	156		9.413					ND	
98 trans-1,4-Dichloro-2-buten	53		9.455					ND	
99 N-Propylbenzene	91		9.455					ND	
100 1,2,3-Trichloropropane	110		9.461					ND	
103 2-Chlorotoluene	126		9.583					ND	
102 1,3,5-Trimethylbenzene	105		9.626					ND	
104 3-Chlorotoluene	126		9.644					ND	
105 4-Chlorotoluene	126		9.693					ND	
106 tert-Butylbenzene	134		9.954					ND	
108 Pentachloroethane	167		10.027					ND	
109 sec-Butylbenzene	105		10.161					ND	
110 4-Isopropyltoluene	119		10.289					ND	
111 1,3-Dichlorobenzene	146		10.319					ND	
114 Dicyclopentadiene	66	10.374	10.392	-0.018	47	12130		0.4798	
113 1,4-Dichlorobenzene	146		10.398					ND	
112 1,2,3-Trimethylbenzene	105		10.417					ND	
150 Benzyl chloride	126		10.532					ND	
115 n-Butylbenzene	91		10.666					ND	
116 1,2-Dichlorobenzene	146		10.751					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439					ND	
118 1,3,5-Trichlorobenzene	180		11.566					ND	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	90	3777		0.4229	
120 Hexachlorobutadiene	225		12.169					ND	
121 Naphthalene	128	12.290	12.290	0.000	96	15279		0.7784	
122 1,2,3-Trichlorobenzene	180	12.503	12.497	0.006	90	2961		0.3623	
149 2-Methylnaphthalene	142	13.294	13.300	-0.006	86	5177		0.4415	
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
S 123 Total BTEX	1				0			0.2258	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
T 132 Methyl acrylate	1		0.000					ND	
T 139 Bromoethane TIC	1		0.000					ND	
T 131 Nitrobenzene	77		0.000					ND	
T 141 Pentachloroethane TIC	1		0.000					ND	
T 130 Hexachloroethane	117		0.000					ND	
T 133 cis-1,4-Dichloro-2-butene	88		0.000					ND	
T 138 Aziridine TIC	1		0.000					ND	
T 140 bis(chloromethyl)ether TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 142 1-Bromopropane	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 129 tert-amyl alcohol TIC	59		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

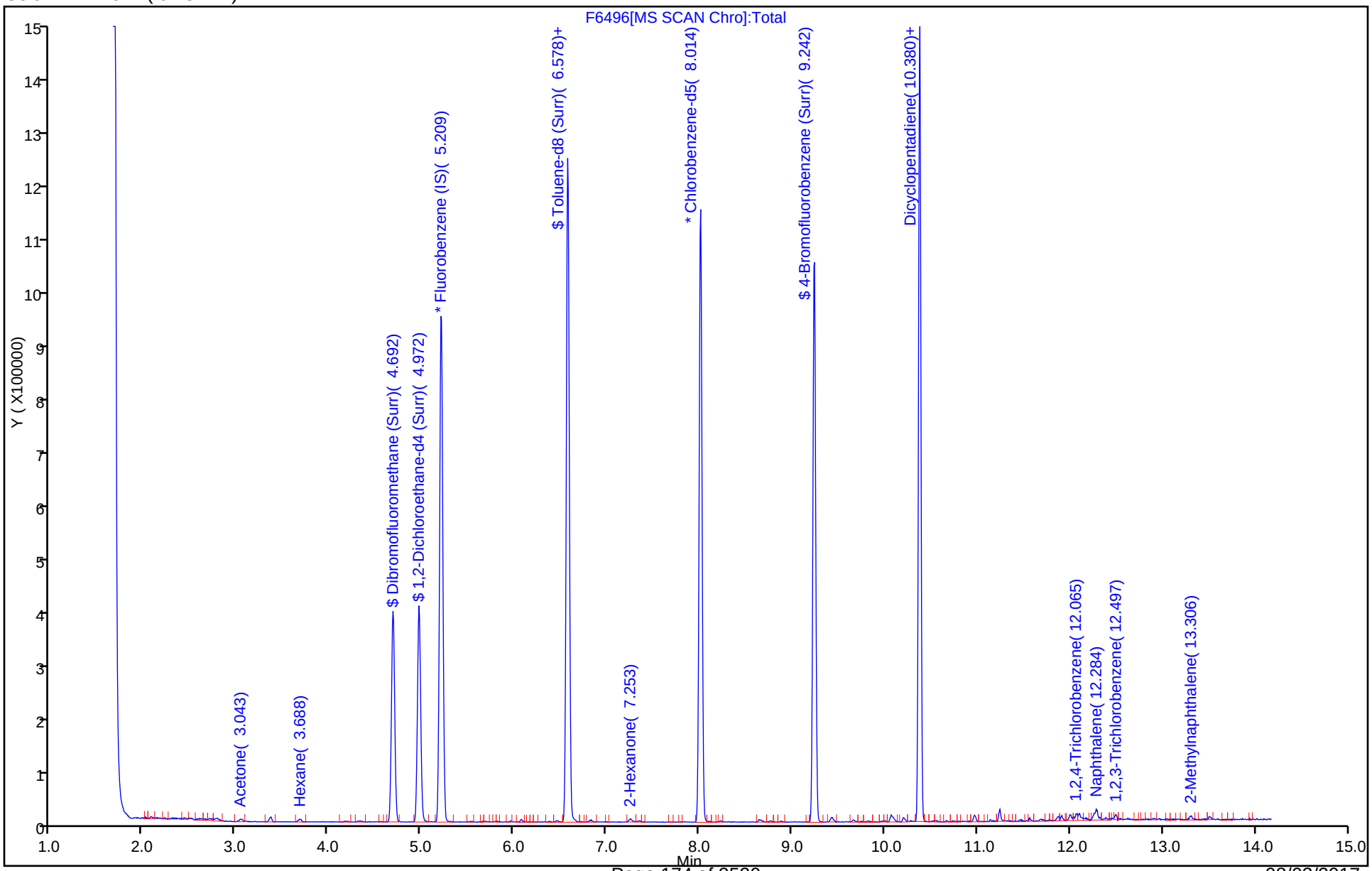
Report Date: 26-Jul-2017 11:35:21 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6496.D

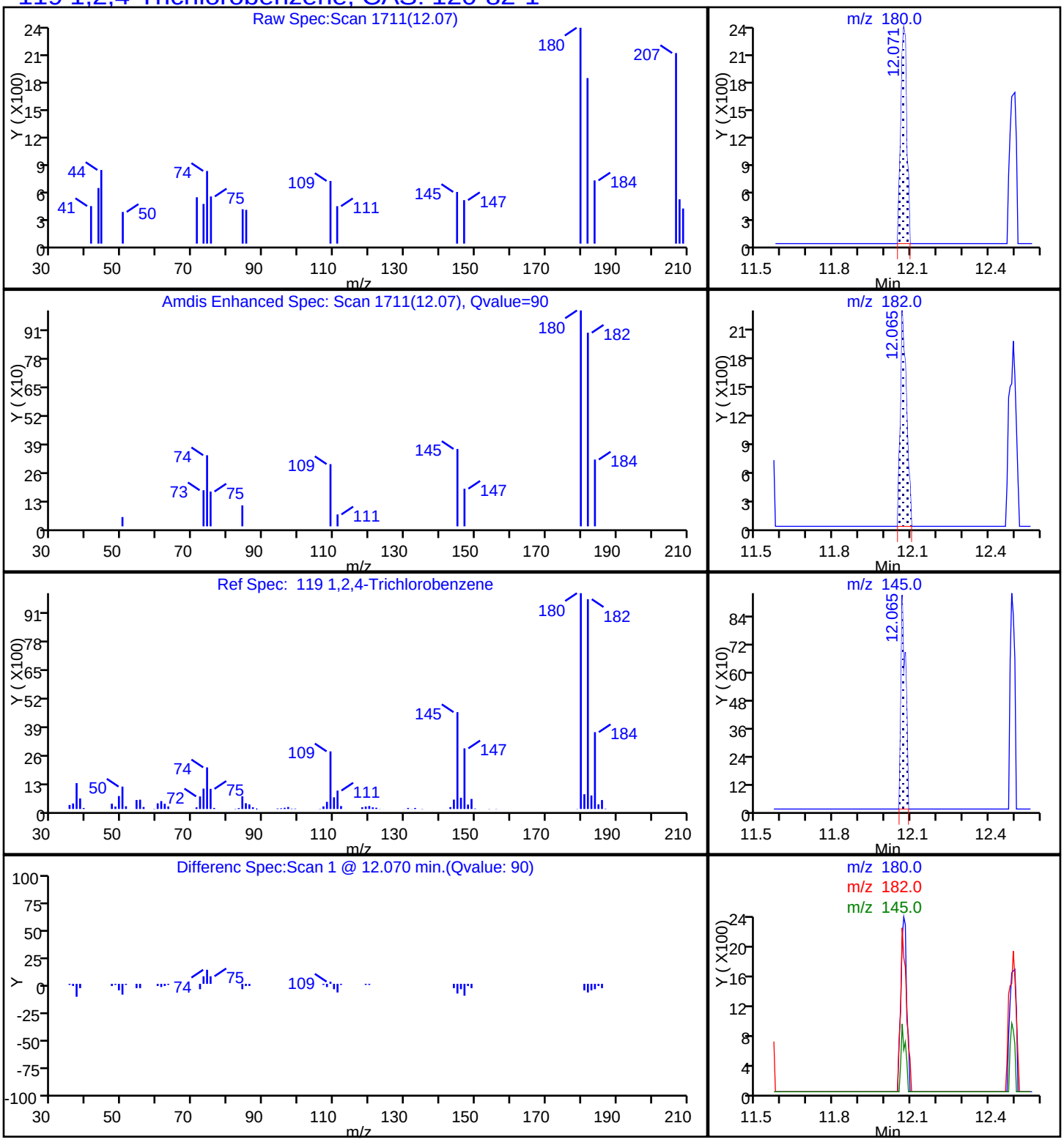
Injection Date:	26-Jul-2017 11:23:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	MB 480-368757/2-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6496.D
Injection Date: 26-Jul-2017 11:23:30 Instrument ID: HP5973F
Lims ID: MB 480-368757/2-A
Client ID:
Operator ID: AM/CDC ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

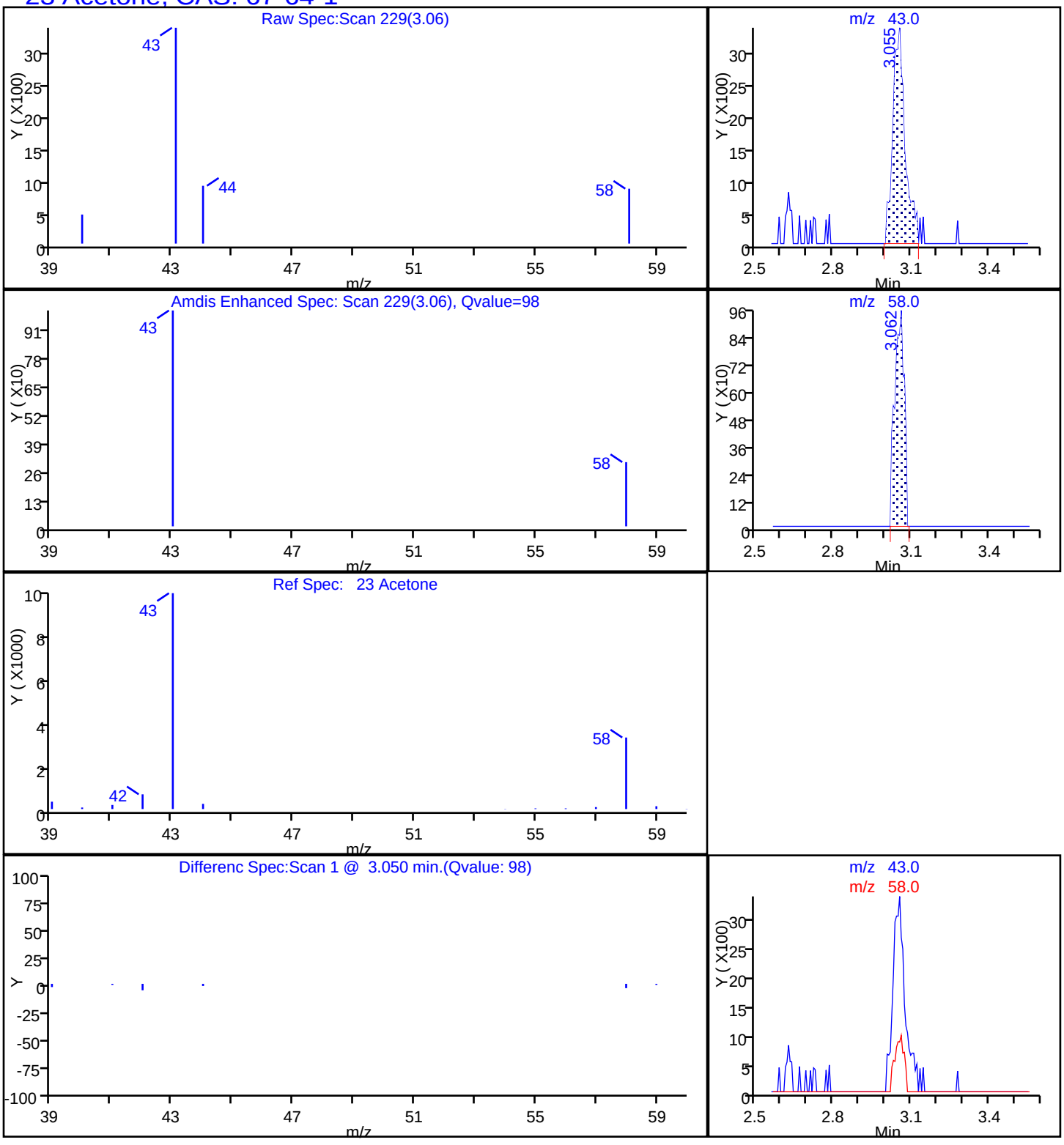
119 1,2,4-Trichlorobenzene, CAS: 120-82-1



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6496.D
Injection Date: 26-Jul-2017 11:23:30 Instrument ID: HP5973F
Lims ID: MB 480-368757/2-A
Client ID:
Operator ID: AM/CDC ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-369004/2-A

Matrix: Solid | Lab File ID: F6547.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 11:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	0.438	J	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
591-78-6	2-Hexanone	ND		25	2.5
78-93-3	2-Butanone (MEK)	ND		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	4.42	J	25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
110-82-7	Cyclohexane	ND		5.0	0.70
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
98-82-8	Isopropylbenzene	ND		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-369004/2-A

Matrix: Solid | Lab File ID: F6547.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 11:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	3.0
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
100-42-5	Styrene	ND		5.0	0.25
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-126
2037-26-5	Toluene-d8 (Surr)	91		71-125
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6547.D
Lims ID: MB 480-369004/2-A
Client ID:
Sample Type: MB
Inject. Date: 27-Jul-2017 11:47:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0064372-007
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 12:00:53 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 12:00:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	204078	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	427734	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	400817	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.692	0.006	92	240803	50.0	45.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	157305	50.0	45.4	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	922848	50.0	45.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	87	337636	50.0	49.3	
10 Dichlorodifluoromethane	85		1.833					ND	
11 Chlorodifluoromethane	51		1.833					ND	
12 Chloromethane	50		1.954					ND	
13 Vinyl chloride	62		2.064					ND	
151 Butadiene	54		2.082					ND	
14 Bromomethane	94		2.344					ND	
15 Chloroethane	64		2.417					ND	
16 Dichlorofluoromethane	67		2.575					ND	
17 Trichlorofluoromethane	101		2.593					ND	
148 Ethanol	45		2.763					ND	
18 Ethyl ether	59		2.788					ND	
19 Propene oxide	58		2.873					ND	
20 Acrolein	56		2.940					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.976					ND	
22 1,1-Dichloroethene	96		2.994					ND	
23 Acetone	43	3.055	3.049	0.006	99	8196		4.42	
24 Isopropyl alcohol	45		3.134					ND	
25 Iodomethane	142		3.147					ND	
26 Carbon disulfide	76		3.201					ND	
27 Methyl acetate	43		3.262					ND	
28 3-Chloro-1-propene	41		3.262					ND	
29 Acetonitrile	40		3.293					ND	
31 2-Methyl-2-propanol	59		3.426					ND	
32 Methyl tert-butyl ether	73		3.524					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
34 trans-1,2-Dichloroethene	96		3.554					ND	
33 Acrylonitrile	53		3.566					ND	
35 Hexane	57	3.682	3.688	-0.006	88	3589		0.4455	
36 Isopropyl ether	45		3.834					ND	
134 Halothane	117		3.840					ND	
37 Vinyl acetate	43		3.871					ND	
39 1,1-Dichloroethane	63		3.883					ND	
38 1,1-Dimethoxyethane	75		3.913					ND	
40 2-Chloro-1,3-butadiene	53		3.931					ND	
41 Tert-butyl ethyl ether	59		4.114					ND	
42 Ethyl acetate	43		4.309					ND	
44 2,2-Dichloropropane	77		4.315					ND	
43 2-Butanone (MEK)	43		4.315					ND	
45 cis-1,2-Dichloroethene	96		4.327					ND	
46 Propionitrile	54		4.406					ND	
47 Methacrylonitrile	41		4.497					ND	
48 Chlorobromomethane	128		4.528					ND	
49 Tetrahydrofuran	42		4.546					ND	
50 Chloroform	83		4.564					ND	
51 1,1,1-Trichloroethane	97		4.704					ND	
52 Cyclohexane	56		4.728					ND	
54 1,1-Dichloropropene	75		4.820					ND	
55 Carbon tetrachloride	117		4.826					ND	
53 Isobutyl alcohol	43		4.886					ND	
147 t-Amyl alcohol	59		4.960					ND	
152 Isooctane	57		4.966					ND	
57 Benzene	78		5.002					ND	
56 Tert-amyl methyl ether	73		5.020					ND	
59 n-Heptane	43		5.099					ND	
1 1,4-Difluorobenzene	114		5.282					ND	
136 2,4,4-Trimethyl-1-pentene	55		5.404					ND	
60 n-Butanol	56		5.428					ND	
62 Trichloroethene	95		5.519					ND	
137 Ethyl acrylate	55		5.586					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.592					ND	
64 Methylcyclohexane	83		5.653					ND	
65 1,2-Dichloropropane	63		5.738					ND	
63 Methyl methacrylate	41		5.750					ND	
66 1,4-Dioxane	88		5.854					ND	
67 Dibromomethane	93		5.866					ND	
68 Dichlorobromomethane	83		5.982					ND	
69 2-Chloroethyl vinyl ether	63		6.188					ND	
70 2-Nitropropane	43		6.188					ND	
71 Epichlorohydrin	57		6.298					ND	
72 cis-1,3-Dichloropropene	75		6.353					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456					ND	
74 Toluene	92		6.645					ND	
76 2-Methylthiophene	97		6.779					ND	
75 Ethyl methacrylate	69		6.870					ND	
77 trans-1,3-Dichloropropene	75		6.870					ND	
78 3-Methylthiophene	97		6.931					ND	
79 1,1,2-Trichloroethane	83		7.064					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
81 Tetrachloroethene	166		7.162					ND	
82 1,3-Dichloropropane	76		7.229					ND	
80 2-Hexanone	43	7.259	7.247	0.012	93	6656		1.88	
155 n-Butyl acetate	43		7.326					ND	
83 Chlorodibromomethane	129		7.466					ND	
84 Ethylene Dibromide	107		7.594					ND	
146 1-Chlorohexane	55		7.947					ND	
85 3-Chlorobenzotrifluoride	180		7.953					ND	
86 4-Chlorobenzotrifluoride	180		8.014					ND	
87 Chlorobenzene	112		8.044					ND	
88 Ethylbenzene	91		8.111					ND	
89 1,1,1,2-Tetrachloroethane	131		8.123					ND	
90 m-Xylene & p-Xylene	106		8.226					ND	
91 o-Xylene	106		8.652					ND	
92 Styrene	104		8.677					ND	
93 2-Chlorobenzotrifluoride	180		8.932					ND	
95 Bromoform	173		8.950					ND	
94 Isopropylbenzene	105		9.023					ND	
96 Cyclohexanone	55		9.224					ND	
101 Bromobenzene	156		9.413					ND	
97 1,1,2,2-Tetrachloroethane	83		9.413					ND	
98 trans-1,4-Dichloro-2-buten	53		9.455					ND	
99 N-Propylbenzene	91		9.461					ND	
100 1,2,3-Trichloropropane	110		9.461					ND	
103 2-Chlorotoluene	126		9.589					ND	
102 1,3,5-Trimethylbenzene	105		9.632					ND	
104 3-Chlorotoluene	126		9.644					ND	
105 4-Chlorotoluene	126		9.692					ND	
106 tert-Butylbenzene	134		9.954					ND	
108 Pentachloroethane	167		10.033					ND	
109 sec-Butylbenzene	105		10.161					ND	
110 4-Isopropyltoluene	119		10.289					ND	
111 1,3-Dichlorobenzene	146		10.319					ND	
114 Dicyclopentadiene	66		10.392					ND	
113 1,4-Dichlorobenzene	146		10.404					ND	
112 1,2,3-Trimethylbenzene	105		10.417					ND	
150 Benzyl chloride	126		10.532					ND	
116 1,2-Dichlorobenzene	146		10.751					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.438					ND	
118 1,3,5-Trichlorobenzene	180		11.566					ND	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	90	3676		0.4383	
120 Hexachlorobutadiene	225		12.169					ND	
121 Naphthalene	128	12.290	12.290	0.000	95	13877		0.7529	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	92	3460		0.4508	
149 2-Methylnaphthalene	142	13.306	13.306	0.000	84	3790		0.3442	
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
S 124 Xylenes, Total	1		30.000					ND	
T 142 1-Bromopropane	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 140 bis(chloromethyl)ether TIC	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 129 tert-amyl alcohol TIC	59		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 131 Nitrobenzene	77		0.000					ND	
T 139 Bromoethane TIC	1		0.000					ND	
T 132 Methyl acrylate	1		0.000					ND	
T 141 Pentachloroethane TIC	1		0.000					ND	
T 138 Aziridine TIC	1		0.000					ND	
T 133 cis-1,4-Dichloro-2-butene	88		0.000					ND	
T 130 Hexachloroethane	117		0.000					ND	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

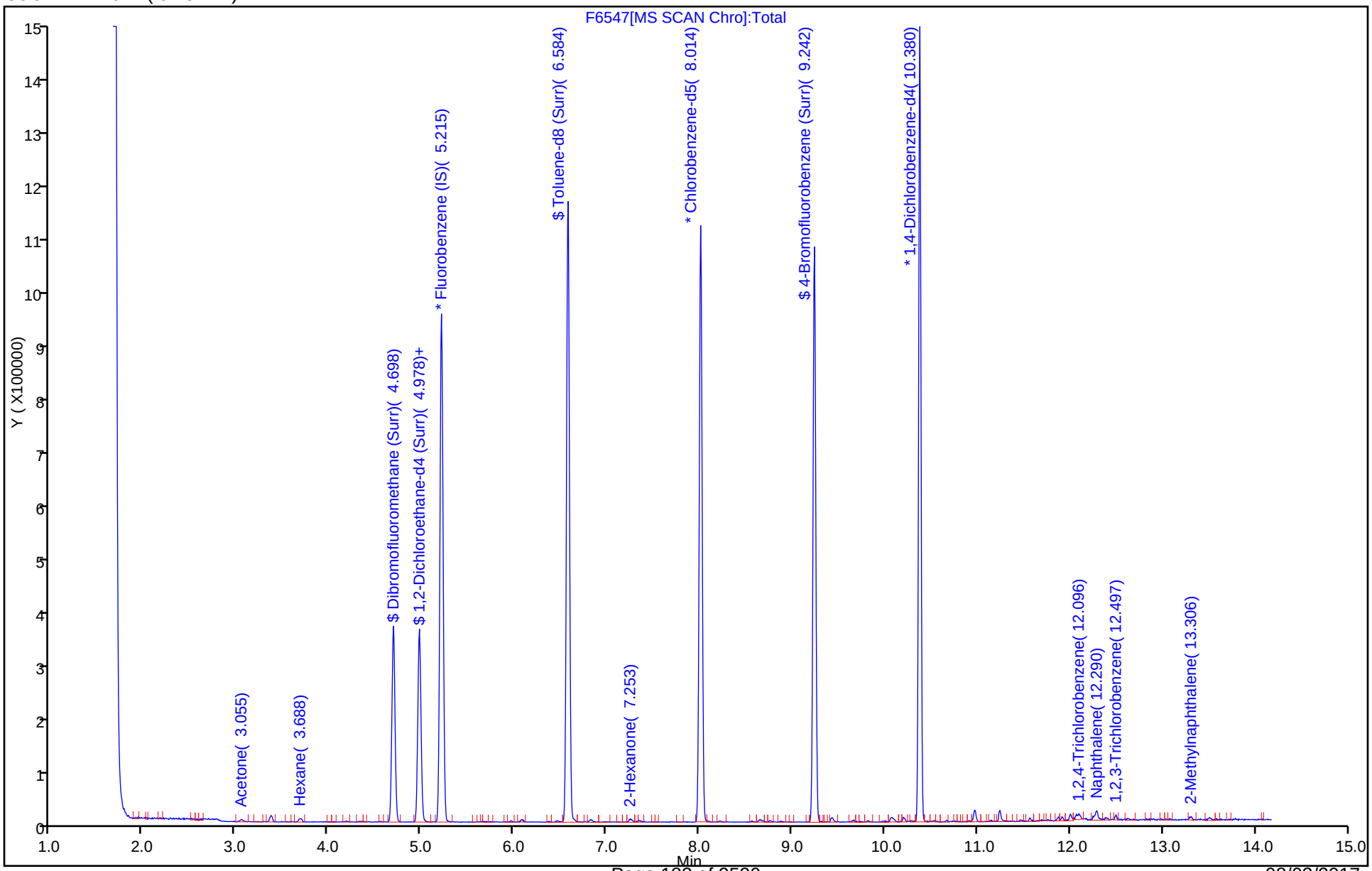
Report Date: 27-Jul-2017 12:00:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6547.D

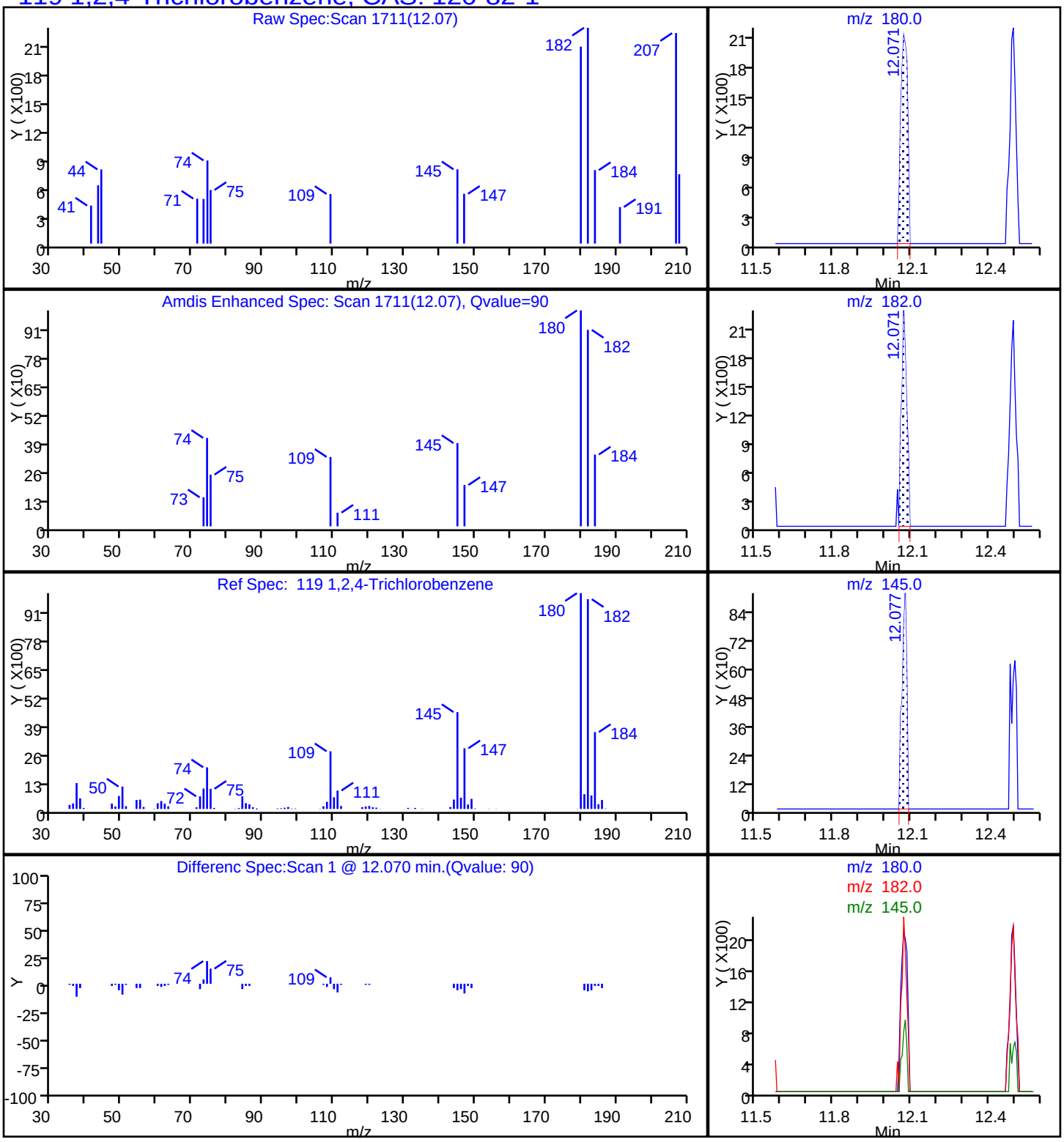
Injection Date:	27-Jul-2017 11:47:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	MB 480-369004/2-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



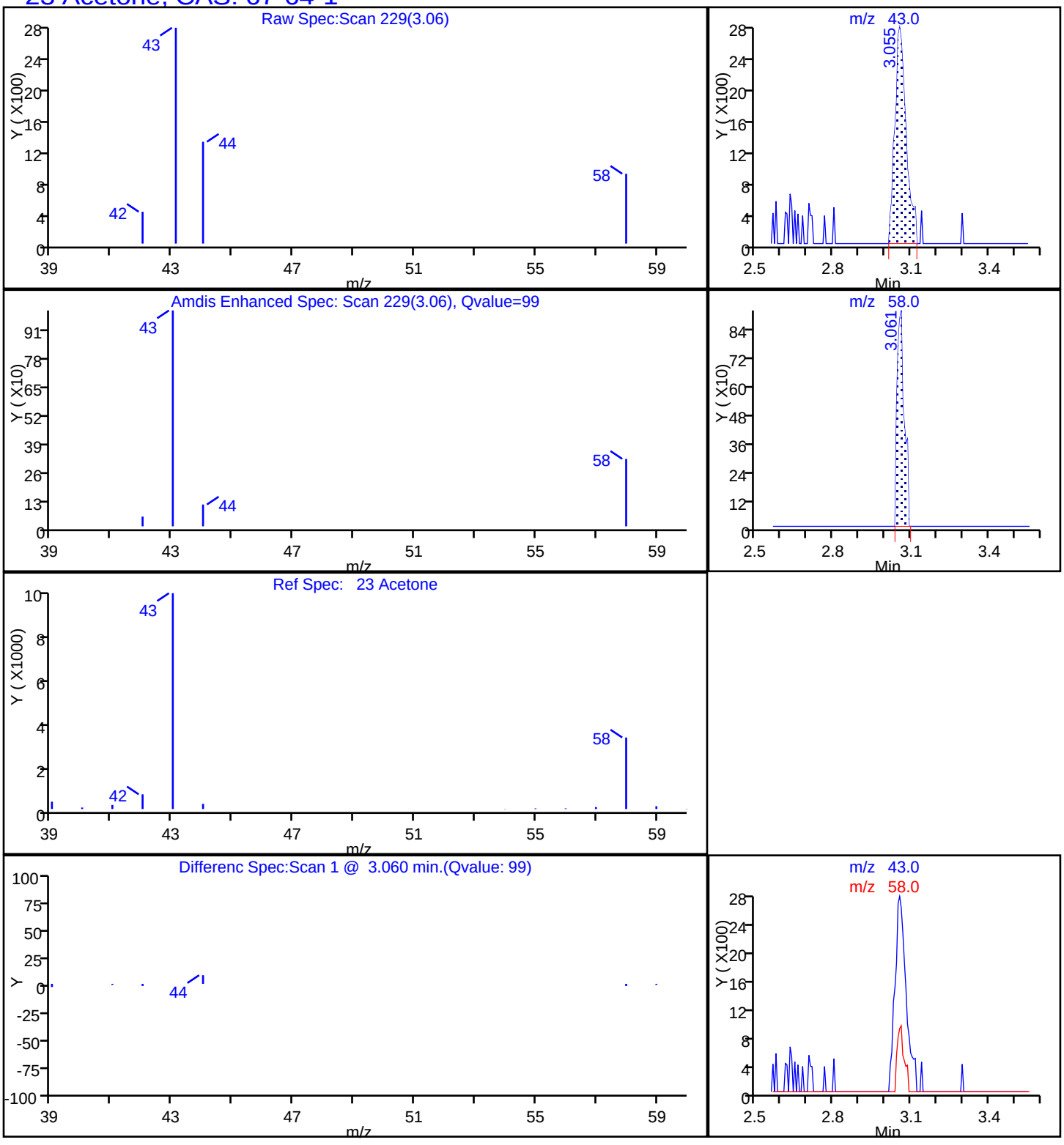
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6547.D
Injection Date: 27-Jul-2017 11:47:30 Instrument ID: HP5973F
Lims ID: MB 480-369004/2-A
Client ID:
Operator ID: AM/CDC ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1



Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6547.D
Injection Date: 27-Jul-2017 11:47:30 Instrument ID: HP5973F
Lims ID: MB 480-369004/2-A
Client ID:
Operator ID: AM/CDC ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368757/1-A

Matrix: Solid | Lab File ID: F6494.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/26/2017 10:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	43.7		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	52.7		5.0	0.81
79-00-5	1,1,2-Trichloroethane	50.7		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	35.0		5.0	1.1
75-34-3	1,1-Dichloroethane	46.7		5.0	0.61
75-35-4	1,1-Dichloroethene	39.8		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	46.0		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	57.0		5.0	2.5
106-93-4	1,2-Dibromoethane	50.1		5.0	0.64
95-50-1	1,2-Dichlorobenzene	47.6		5.0	0.39
107-06-2	1,2-Dichloroethane	49.6		5.0	0.25
78-87-5	1,2-Dichloropropane	46.7		5.0	2.5
541-73-1	1,3-Dichlorobenzene	47.1		5.0	0.26
106-46-7	1,4-Dichlorobenzene	47.2		5.0	0.70
591-78-6	2-Hexanone	277		25	2.5
78-93-3	2-Butanone (MEK)	280		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	269		25	1.6
67-64-1	Acetone	269		25	4.2
71-43-2	Benzene	45.5		5.0	0.25
75-27-4	Bromodichloromethane	52.7		5.0	0.67
75-25-2	Bromoform	49.2		5.0	2.5
74-83-9	Bromomethane	77.9		5.0	0.45
75-15-0	Carbon disulfide	36.8		5.0	2.5
56-23-5	Carbon tetrachloride	46.1		5.0	0.48
108-90-7	Chlorobenzene	46.3		5.0	0.66
124-48-1	Dibromochloromethane	50.0		5.0	0.64
75-00-3	Chloroethane	72.9		5.0	1.1
67-66-3	Chloroform	47.2		5.0	0.31
74-87-3	Chloromethane	48.4		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	47.2		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	49.8		5.0	0.72
110-82-7	Cyclohexane	35.6		5.0	0.70
75-71-8	Dichlorodifluoromethane	37.1		5.0	0.41
100-41-4	Ethylbenzene	45.7		5.0	0.35
98-82-8	Isopropylbenzene	44.2		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368757/1-A

Matrix: Solid | Lab File ID: F6494.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/26/2017 10:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368716 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	262		25	3.0
1634-04-4	Methyl tert-butyl ether	51.4		5.0	0.49
108-87-2	Methylcyclohexane	34.5		5.0	0.76
75-09-2	Methylene Chloride	50.9		5.0	2.3
100-42-5	Styrene	46.3		5.0	0.25
127-18-4	Tetrachloroethene	40.4		5.0	0.67
108-88-3	Toluene	44.9		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	44.2		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	52.2		5.0	2.2
79-01-6	Trichloroethene	43.7		5.0	1.1
75-69-4	Trichlorofluoromethane	41.1		5.0	0.47
75-01-4	Vinyl chloride	44.3		5.0	0.61
1330-20-7	Xylenes, Total	90.5		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
460-00-4	4-Bromofluorobenzene (Surr)	102		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6494.D
Lims ID: LCS 480-368757/1-A
Client ID:
Sample Type: LCS
Inject. Date: 26-Jul-2017 10:33:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0064328-005
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 10:52:29 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 26-Jul-2017 10:52:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	230568	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.013	8.014	-0.001	87	473137	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	472059	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.692	0.006	92	302516	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.972	0.006	0	196515	50.0	50.2	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	93	1090682	50.0	48.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	88	385057	50.0	50.9	
10 Dichlorodifluoromethane	85	1.833	1.827	0.006	99	265878	50.0	37.1	
12 Chloromethane	50	1.954	1.948	0.006	99	291221	50.0	48.4	
13 Vinyl chloride	62	2.064	2.058	0.006	98	253181	50.0	44.3	
151 Butadiene	54	2.082	2.076	0.006	92	197902	50.0	38.4	
14 Bromomethane	94	2.344	2.344	0.000	93	156705	50.0	77.9	
15 Chloroethane	64	2.423	2.411	0.012	99	128515	50.0	72.9	
16 Dichlorofluoromethane	67	2.569	2.563	0.006	97	342597	50.0	51.1	
17 Trichlorofluoromethane	101	2.605	2.599	0.006	98	304065	50.0	41.1	
18 Ethyl ether	59	2.788	2.782	0.006	89	201280	50.0	52.8	
20 Acrolein	56	2.940	2.934	0.006	99	240387	250.0	252.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.976	2.970	0.006	93	215936	50.0	35.0	
22 1,1-Dichloroethene	96	2.995	2.988	0.006	98	222617	50.0	39.8	
23 Acetone	43	3.049	3.043	0.006	99	563397	250.0	268.9	
25 Iodomethane	142	3.147	3.141	0.006	99	525919	50.0	45.4	
26 Carbon disulfide	76	3.201	3.195	0.006	100	743303	50.0	36.8	
27 Methyl acetate	43	3.262	3.256	0.006	96	1070045	250.0	261.6	
28 3-Chloro-1-propene	41	3.262	3.256	0.006	86	411718	50.0	44.8	
30 Methylene Chloride	84	3.372	3.372	0.000	92	324047	50.0	50.9	
31 2-Methyl-2-propanol	59	3.433	3.420	0.013	100	346116	500.0	495.5	
32 Methyl tert-butyl ether	73	3.518	3.518	0.000	94	959612	50.0	51.4	
34 trans-1,2-Dichloroethene	96	3.554	3.548	0.006	97	283060	50.0	44.2	
33 Acrylonitrile	53	3.566	3.566	0.000	98	1055399	500.0	523.0	
35 Hexane	57	3.688	3.688	0.000	92	304528	50.0	33.5	
37 Vinyl acetate	43	3.864	3.858	0.006	98	1015080	100.0	101.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	3.883	3.877	0.006	96	524040	50.0	46.7	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	64	437750	50.0	44.7	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	97	746330	250.0	279.5	
45 cis-1,2-Dichloroethene	96	4.327	4.321	0.006	82	334608	50.0	47.2	
48 Chlorobromomethane	128	4.528	4.522	0.006	93	165473	50.0	49.1	
49 Tetrahydrofuran	42	4.540	4.540	0.000	85	176677	100.0	105.4	
50 Chloroform	83	4.564	4.558	0.006	94	557984	50.0	47.2	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	447583	50.0	43.7	
52 Cyclohexane	56	4.734	4.728	0.006	90	353689	50.0	35.6	
54 1,1-Dichloropropene	75	4.820	4.814	0.006	95	356747	50.0	41.3	
55 Carbon tetrachloride	117	4.832	4.826	0.006	98	360236	50.0	46.1	
53 Isobutyl alcohol	43	4.886	4.887	-0.001	92	333380	1250.0	1227.4	
57 Benzene	78	5.002	5.002	0.000	97	1088741	50.0	45.5	
58 1,2-Dichloroethane	62	5.039	5.033	0.006	98	492576	50.0	49.6	
59 n-Heptane	43	5.099	5.099	0.000	89	290420	50.0	32.3	
62 Trichloroethene	95	5.519	5.513	0.006	96	290920	50.0	43.7	
64 Methylcyclohexane	83	5.653	5.653	0.000	90	389020	50.0	34.5	
65 1,2-Dichloropropane	63	5.738	5.732	0.006	90	276864	50.0	46.7	
66 1,4-Dioxane	88	5.848	5.842	0.006	94	48884	1000.0	720.6	
67 Dibromomethane	93	5.866	5.866	0.000	95	205125	50.0	49.9	
68 Dichlorobromomethane	83	5.975	5.976	-0.001	99	396559	50.0	52.7	
69 2-Chloroethyl vinyl ether	63	6.188	6.182	0.006	94	172955	50.0	49.9	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	481289	50.0	49.8	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1454328	250.0	268.8	
74 Toluene	92	6.645	6.645	0.000	98	702640	50.0	44.9	
77 trans-1,3-Dichloropropene	75	6.870	6.864	0.006	96	457238	50.0	52.2	
75 Ethyl methacrylate	69	6.870	6.870	0.000	88	390884	50.0	51.4	
79 1,1,2-Trichloroethane	83	7.064	7.064	0.000	94	225149	50.0	50.7	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	288573	50.0	40.4	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	97	463142	50.0	49.4	
80 2-Hexanone	43	7.241	7.241	0.000	95	1084418	250.0	277.4	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	295066	50.0	50.0	
84 Ethylene Dibromide	107	7.594	7.588	0.006	98	273340	50.0	50.1	
87 Chlorobenzene	112	8.044	8.044	0.000	93	796158	50.0	46.3	
88 Ethylbenzene	91	8.111	8.111	0.000	98	1306357	50.0	45.7	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	91	296048	50.0	53.3	
90 m-Xylene & p-Xylene	106	8.226	8.226	0.000	99	515412	50.0	44.7	
91 o-Xylene	106	8.652	8.652	0.000	98	516855	50.0	45.8	
92 Styrene	104	8.677	8.677	0.000	94	890011	50.0	46.3	
95 Bromoform	173	8.944	8.944	0.000	95	185765	50.0	49.2	
94 Isopropylbenzene	105	9.023	9.023	0.000	97	1279663	50.0	44.2	
101 Bromobenzene	156	9.413	9.413	0.000	93	371186	50.0	47.2	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	80	353657	50.0	52.7	
99 N-Propylbenzene	91	9.455	9.455	0.000	98	1503643	50.0	44.6	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	74	116072	50.0	55.9	
100 1,2,3-Trichloropropane	110	9.467	9.461	0.006	81	118088	50.0	51.8	
103 2-Chlorotoluene	126	9.583	9.583	0.000	96	314070	50.0	45.3	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	94	1135130	50.0	45.5	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	340049	50.0	46.6	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	245529	50.0	42.7	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	98	1190734	50.0	46.3	
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1334309	50.0	42.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	1184468	50.0	44.2	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	714218	50.0	47.1	
113 1,4-Dichlorobenzene	146	10.404	10.398	0.006	94	721669	50.0	47.2	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	1078079	50.0	43.5	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	687689	50.0	47.6	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	-0.001	82	73107	50.0	57.0	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	454494	50.0	46.0	
120 Hexachlorobutadiene	225	12.162	12.169	-0.007	98	220269	50.0	37.8	
121 Naphthalene	128	12.290	12.290	0.000	98	1087340	50.0	50.1	
122 1,2,3-Trichlorobenzene	180	12.491	12.497	-0.006	95	410077	50.0	45.4	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

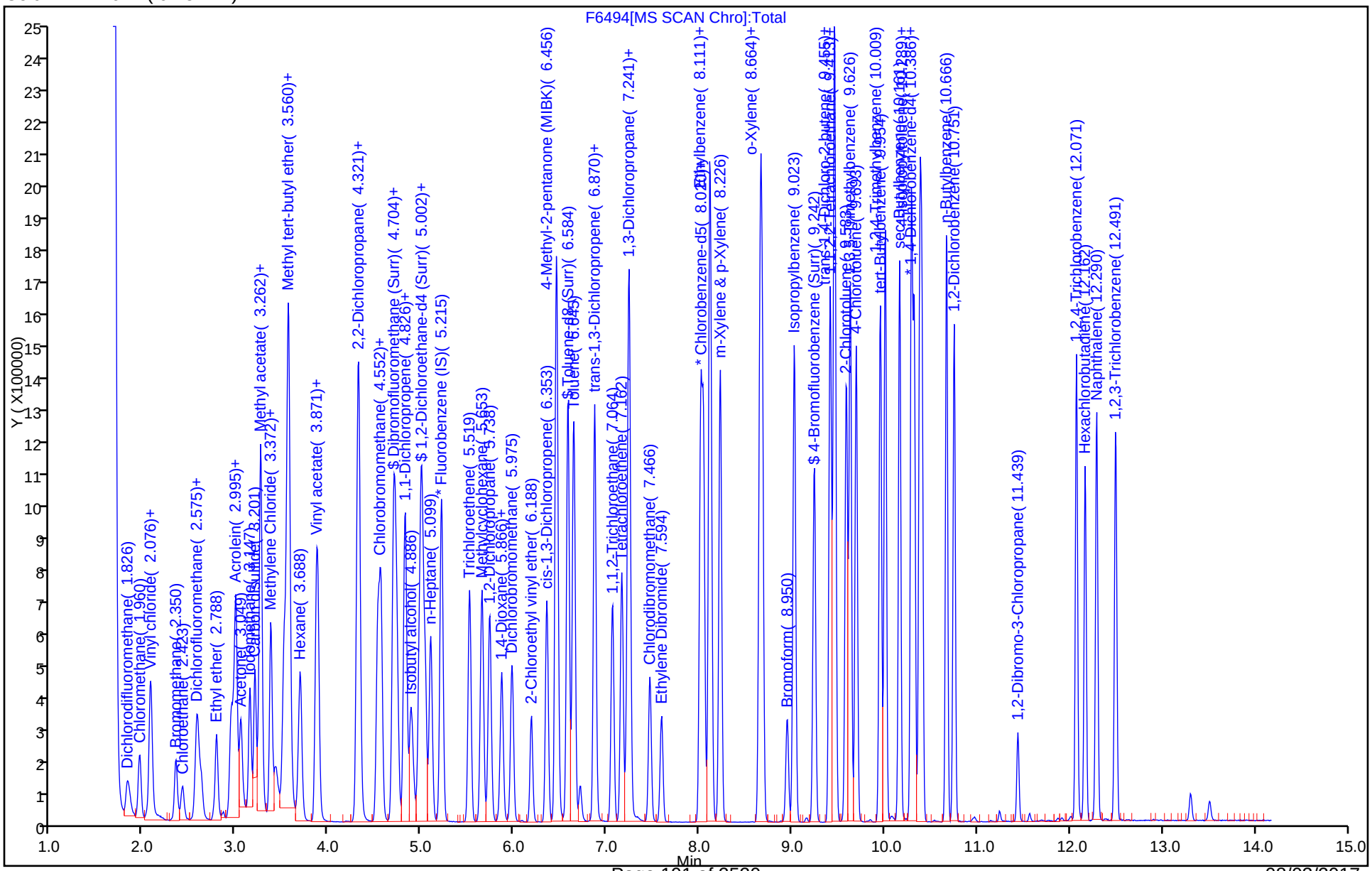
Report Date: 26-Jul-2017 10:52:30 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64328.b\F6494.D

Injection Date:	26-Jul-2017 10:33:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	LCS 480-368757/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-369004/1-A

Matrix: Solid | Lab File ID: F6545.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 10:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	44.2		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	51.3		5.0	0.81
79-00-5	1,1,2-Trichloroethane	48.2		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	38.1		5.0	1.1
75-34-3	1,1-Dichloroethane	46.8		5.0	0.61
75-35-4	1,1-Dichloroethene	42.4		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	44.0		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	49.9		5.0	2.5
106-93-4	1,2-Dibromoethane	48.8		5.0	0.64
95-50-1	1,2-Dichlorobenzene	46.9		5.0	0.39
107-06-2	1,2-Dichloroethane	48.3		5.0	0.25
78-87-5	1,2-Dichloropropane	47.1		5.0	2.5
541-73-1	1,3-Dichlorobenzene	46.9		5.0	0.26
106-46-7	1,4-Dichlorobenzene	47.3		5.0	0.70
591-78-6	2-Hexanone	252		25	2.5
78-93-3	2-Butanone (MEK)	258		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	248		25	1.6
67-64-1	Acetone	260		25	4.2
71-43-2	Benzene	45.8		5.0	0.25
75-27-4	Bromodichloromethane	52.2		5.0	0.67
75-25-2	Bromoform	44.2		5.0	2.5
74-83-9	Bromomethane	70.0		5.0	0.45
75-15-0	Carbon disulfide	37.7		5.0	2.5
56-23-5	Carbon tetrachloride	46.2		5.0	0.48
108-90-7	Chlorobenzene	45.8		5.0	0.66
124-48-1	Dibromochloromethane	47.4		5.0	0.64
75-00-3	Chloroethane	69.3		5.0	1.1
67-66-3	Chloroform	47.7		5.0	0.31
74-87-3	Chloromethane	46.6		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	47.9		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	48.1		5.0	0.72
110-82-7	Cyclohexane	38.4		5.0	0.70
75-71-8	Dichlorodifluoromethane	35.1		5.0	0.41
100-41-4	Ethylbenzene	46.1		5.0	0.35
98-82-8	Isopropylbenzene	45.0		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-369004/1-A

Matrix: Solid | Lab File ID: F6545.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 10:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	262		25	3.0
1634-04-4	Methyl tert-butyl ether	48.7		5.0	0.49
108-87-2	Methylcyclohexane	36.9		5.0	0.76
75-09-2	Methylene Chloride	50.6		5.0	2.3
100-42-5	Styrene	46.0		5.0	0.25
127-18-4	Tetrachloroethene	41.0		5.0	0.67
108-88-3	Toluene	45.2		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	45.3		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	50.7		5.0	2.2
79-01-6	Trichloroethene	43.8		5.0	1.1
75-69-4	Trichlorofluoromethane	42.8		5.0	0.47
75-01-4	Vinyl chloride	44.3		5.0	0.61
1330-20-7	Xylenes, Total	89.9		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-126
2037-26-5	Toluene-d8 (Surr)	95		71-125
460-00-4	4-Bromofluorobenzene (Surr)	104		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6545.D
Lims ID: LCS 480-369004/1-A
Client ID:
Sample Type: LCS
Inject. Date: 27-Jul-2017 10:55:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0064372-005
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 11:07:35 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 11:07:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	225492	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	458664	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	455103	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.692	0.000	92	275805	50.0	46.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	173805	50.0	45.4	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	1031702	50.0	47.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	95	380253	50.0	51.8	
10 Dichlorodifluoromethane	85	1.827	1.833	-0.005	99	245836	50.0	35.1	
12 Chloromethane	50	1.954	1.954	0.000	99	274205	50.0	46.6	
13 Vinyl chloride	62	2.064	2.064	0.000	98	247637	50.0	44.3	
151 Butadiene	54	2.076	2.082	-0.006	92	201182	50.0	39.9	
14 Bromomethane	94	2.344	2.344	0.000	92	137555	50.0	70.0	
15 Chloroethane	64	2.417	2.417	0.000	100	119713	50.0	69.3	
16 Dichlorofluoromethane	67	2.569	2.575	-0.006	97	328997	50.0	50.2	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	98	309527	50.0	42.8	
18 Ethyl ether	59	2.782	2.788	-0.006	89	190700	50.0	51.2	
20 Acrolein	56	2.934	2.940	-0.006	99	149669	250.0	160.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.976	-0.006	94	230337	50.0	38.1	
22 1,1-Dichloroethene	96	2.995	2.994	0.001	97	231874	50.0	42.4	
23 Acetone	43	3.043	3.049	-0.006	100	533049	250.0	260.2	
25 Iodomethane	142	3.141	3.147	-0.006	99	500179	50.0	44.2	
26 Carbon disulfide	76	3.201	3.201	0.000	100	744338	50.0	37.7	
27 Methyl acetate	43	3.256	3.262	-0.006	96	1047561	250.0	261.9	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	87	401716	50.0	44.7	
30 Methylene Chloride	84	3.372	3.372	0.000	92	314969	50.0	50.6	
31 2-Methyl-2-propanol	59	3.427	3.426	0.001	98	313183	500.0	458.4	
32 Methyl tert-butyl ether	73	3.518	3.524	-0.006	95	888017	50.0	48.7	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	98	283815	50.0	45.3	
33 Acrylonitrile	53	3.567	3.566	0.000	97	902013	500.0	457.1	
35 Hexane	57	3.688	3.688	0.000	92	328353	50.0	36.9	
37 Vinyl acetate	43	3.865	3.871	-0.005	98	664660	100.0	67.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	3.877	3.883	-0.006	96	513518	50.0	46.8	
44 2,2-Dichloropropane	77	4.309	4.315	-0.006	90	420188	50.0	43.9	
43 2-Butanone (MEK)	43	4.309	4.315	-0.006	98	674197	250.0	258.2	
45 cis-1,2-Dichloroethene	96	4.321	4.327	-0.006	83	331929	50.0	47.9	
48 Chlorobromomethane	128	4.528	4.528	0.000	92	158122	50.0	48.0	
49 Tetrahydrofuran	42	4.546	4.546	0.000	85	156354	100.0	95.4	
50 Chloroform	83	4.558	4.564	-0.006	94	550819	50.0	47.7	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	442785	50.0	44.2	
52 Cyclohexane	56	4.728	4.728	0.000	90	373458	50.0	38.4	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	95	363431	50.0	43.1	
55 Carbon tetrachloride	117	4.832	4.826	0.006	97	353136	50.0	46.2	
53 Isobutyl alcohol	43	4.887	4.886	0.001	92	311917	1250.0	1174.2	
57 Benzene	78	5.002	5.002	0.000	97	1071226	50.0	45.8	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	98	469121	50.0	48.3	
59 n-Heptane	43	5.100	5.099	0.001	90	307641	50.0	35.0	
62 Trichloroethene	95	5.519	5.519	0.000	96	285343	50.0	43.8	
64 Methylcyclohexane	83	5.653	5.653	0.000	90	407161	50.0	36.9	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	91	273113	50.0	47.1	
66 1,4-Dioxane	88	5.842	5.854	-0.012	89	44209	1000.0	674.3	
67 Dibromomethane	93	5.866	5.866	0.000	95	193242	50.0	48.0	
68 Dichlorobromomethane	83	5.976	5.982	-0.006	99	384438	50.0	52.2	
69 2-Chloroethyl vinyl ether	63	6.189	6.188	0.001	93	157109	50.0	46.3	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	454221	50.0	48.1	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1302457	250.0	248.3	
74 Toluene	92	6.645	6.645	0.000	98	685688	50.0	45.2	
75 Ethyl methacrylate	69	6.876	6.870	0.006	89	306863	50.0	41.7	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	97	430593	50.0	50.7	
79 1,1,2-Trichloroethane	83	7.065	7.064	0.001	94	207591	50.0	48.2	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	283885	50.0	41.0	
82 1,3-Dichloropropane	76	7.229	7.229	0.000	98	438993	50.0	48.3	
80 2-Hexanone	43	7.241	7.247	-0.006	94	956341	250.0	252.4	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	270523	50.0	47.4	
84 Ethylene Dibromide	107	7.594	7.594	0.000	97	258035	50.0	48.8	
87 Chlorobenzene	112	8.044	8.044	0.000	93	763900	50.0	45.8	
88 Ethylbenzene	91	8.111	8.111	0.000	98	1277453	50.0	46.1	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	91	280809	50.0	52.2	
90 m-Xylene & p-Xylene	106	8.227	8.226	0.001	99	500720	50.0	44.8	
91 o-Xylene	106	8.652	8.652	0.000	97	494306	50.0	45.1	
92 Styrene	104	8.677	8.677	0.000	93	857777	50.0	46.0	
95 Bromoform	173	8.950	8.950	0.000	94	160038	50.0	44.2	
94 Isopropylbenzene	105	9.023	9.023	0.000	97	1254108	50.0	45.0	
101 Bromobenzene	156	9.413	9.413	0.000	94	356470	50.0	47.0	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	79	331722	50.0	51.3	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	58	103889	50.0	51.9	
99 N-Propylbenzene	91	9.461	9.461	0.000	98	1488721	50.0	45.8	
100 1,2,3-Trichloropropane	110	9.468	9.461	0.007	82	109564	50.0	49.8	
103 2-Chlorotoluene	126	9.589	9.589	0.000	95	308357	50.0	46.2	
102 1,3,5-Trimethylbenzene	105	9.632	9.632	0.000	93	1105503	50.0	46.0	
105 4-Chlorotoluene	126	9.693	9.692	0.001	99	325668	50.0	46.3	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	239516	50.0	43.2	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	1154180	50.0	46.6	
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1334291	50.0	44.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	1156884	50.0	44.8	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	686258	50.0	46.9	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	95	698055	50.0	47.3	
115 n-Butylbenzene	91	10.666	10.672	-0.006	98	1063527	50.0	44.5	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	652320	50.0	46.9	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.438	0.001	83	61612	50.0	49.9	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	419203	50.0	44.0	
120 Hexachlorobutadiene	225	12.169	12.169	0.001	97	208426	50.0	37.1	
121 Naphthalene	128	12.290	12.290	0.000	98	965266	50.0	46.1	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	94	377938	50.0	43.4	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

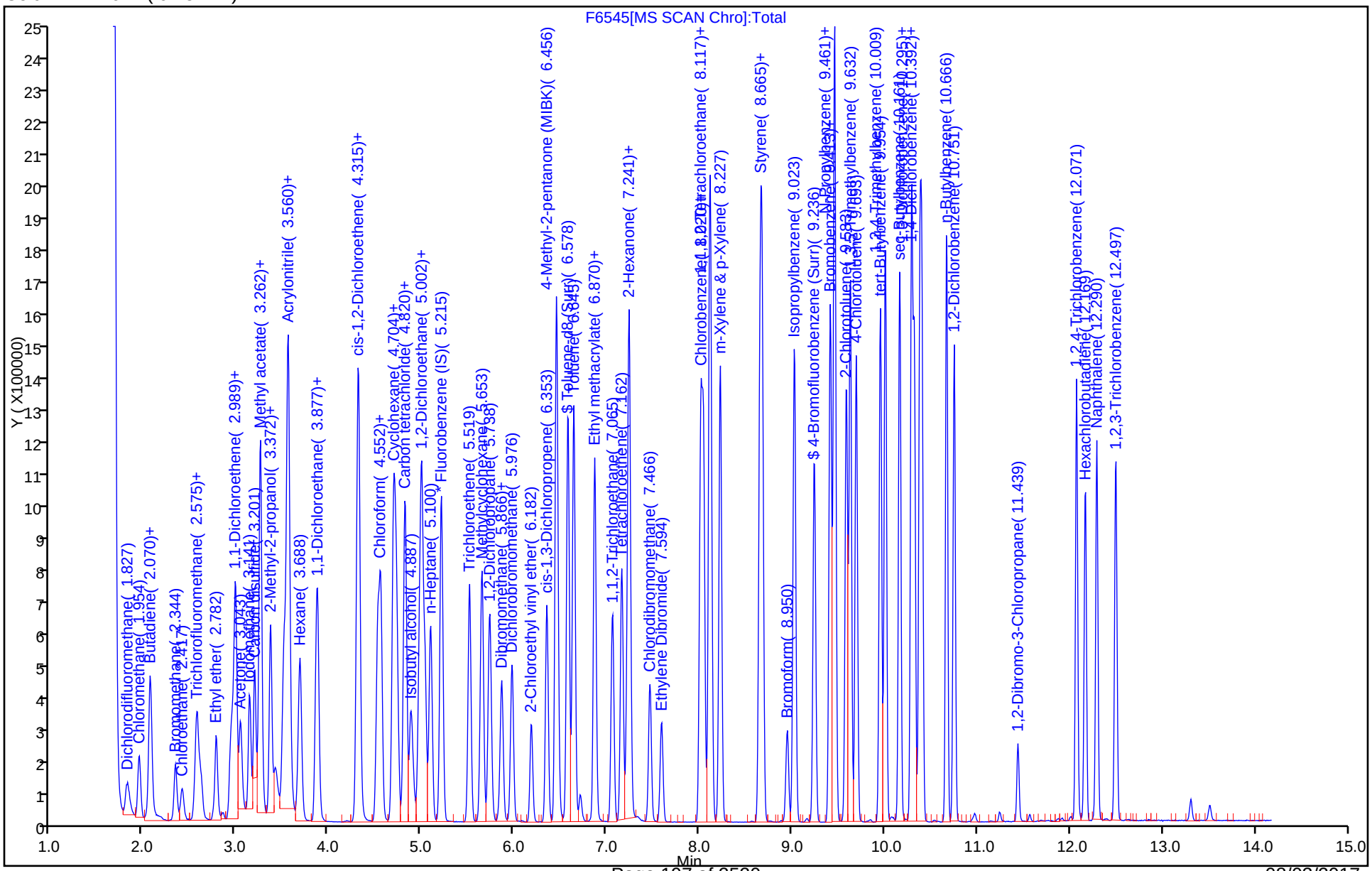
Report Date: 27-Jul-2017 11:07:36 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6545.D

Injection Date:	27-Jul-2017 10:55:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	LCS 480-369004/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS | Lab Sample ID: 480-121411-3 MS

Matrix: Solid | Lab File ID: F6564.D

Analysis Method: 8260C | Date Collected: 07/20/2017 15:00

Sample wt/vol: 5.05(g) | Date Analyzed: 07/27/2017 19:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 16.6 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	52.7		5.9	0.43
79-34-5	1,1,2,2-Tetrachloroethane	47.9		5.9	0.96
79-00-5	1,1,2-Trichloroethane	49.3		5.9	0.77
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	49.2		5.9	1.4
75-34-3	1,1-Dichloroethane	54.5		5.9	0.72
75-35-4	1,1-Dichloroethene	51.5		5.9	0.73
120-82-1	1,2,4-Trichlorobenzene	40.3		5.9	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	38.6		5.9	3.0
106-93-4	1,2-Dibromoethane	46.3		5.9	0.76
95-50-1	1,2-Dichlorobenzene	51.1		5.9	0.46
107-06-2	1,2-Dichloroethane	49.9		5.9	0.30
78-87-5	1,2-Dichloropropane	53.5		5.9	3.0
541-73-1	1,3-Dichlorobenzene	52.9		5.9	0.30
106-46-7	1,4-Dichlorobenzene	51.9		5.9	0.83
591-78-6	2-Hexanone	199		30	3.0
78-93-3	2-Butanone (MEK)	188		30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	204		30	1.9
67-64-1	Acetone	190		30	5.0
71-43-2	Benzene	54.8		5.9	0.29
75-27-4	Bromodichloromethane	57.4		5.9	0.80
75-25-2	Bromoform	41.0		5.9	3.0
74-83-9	Bromomethane	101		5.9	0.53
75-15-0	Carbon disulfide	44.1		5.9	3.0
56-23-5	Carbon tetrachloride	55.8		5.9	0.57
108-90-7	Chlorobenzene	51.8		5.9	0.78
124-48-1	Dibromochloromethane	48.2		5.9	0.76
75-00-3	Chloroethane	95.9		5.9	1.3
67-66-3	Chloroform	55.6		5.9	0.37
74-87-3	Chloromethane	57.8		5.9	0.36
156-59-2	cis-1,2-Dichloroethene	54.7		5.9	0.76
10061-01-5	cis-1,3-Dichloropropene	50.6		5.9	0.85
110-82-7	Cyclohexane	47.2		5.9	0.83
75-71-8	Dichlorodifluoromethane	47.6		5.9	0.49
100-41-4	Ethylbenzene	54.4		5.9	0.41
98-82-8	Isopropylbenzene	55.8		5.9	0.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS | Lab Sample ID: 480-121411-3 MS

Matrix: Solid | Lab File ID: F6564.D

Analysis Method: 8260C | Date Collected: 07/20/2017 15:00

Sample wt/vol: 5.05(g) | Date Analyzed: 07/27/2017 19:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 16.6 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	183		30	3.6
1634-04-4	Methyl tert-butyl ether	47.6		5.9	0.58
108-87-2	Methylcyclohexane	43.6		5.9	0.90
75-09-2	Methylene Chloride	58.9		5.9	2.7
100-42-5	Styrene	51.7		5.9	0.30
127-18-4	Tetrachloroethene	48.0		5.9	0.80
108-88-3	Toluene	53.7		5.9	0.45
156-60-5	trans-1,2-Dichloroethene	53.6		5.9	0.61
10061-02-6	trans-1,3-Dichloropropene	50.5		5.9	2.6
79-01-6	Trichloroethene	51.7		5.9	1.3
75-69-4	Trichlorofluoromethane	58.7		5.9	0.56
75-01-4	Vinyl chloride	56.4		5.9	0.72
1330-20-7	Xylenes, Total	105		12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	75		64-126
2037-26-5	Toluene-d8 (Surr)	94		71-125
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6564.D
Lims ID: 480-121411-D-3-F MS
Client ID: TP-15
Sample Type: MS
Inject. Date: 27-Jul-2017 19:12:30 ALS Bottle#: 17 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121411-D-3-F MS
Misc. Info.: 480-0064372-024
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 17:47:52 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: o'briens Date: 27-Jul-2017 19:49:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	210700	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	424238	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	393479	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	133954	50.0	37.4	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	93	940493	50.0	46.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.242	0.000	92	335670	50.0	49.4	
10 Dichlorodifluoromethane	85	1.827	1.833	-0.005	99	262454	50.0	40.1	
12 Chloromethane	50	1.954	1.954	0.000	99	267768	50.0	48.7	
13 Vinyl chloride	62	2.064	2.064	0.000	98	248300	50.0	47.6	
14 Bromomethane	94	2.344	2.344	0.000	92	157088	50.0	85.5	
15 Chloroethane	64	2.417	2.417	0.000	100	129983	50.0	80.8	
17 Trichlorofluoromethane	101	2.587	2.593	-0.006	99	334193	50.0	49.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.976	-0.006	94	234158	50.0	41.5	
22 1,1-Dichloroethene	96	2.995	2.994	0.001	97	221698	50.0	43.4	
23 Acetone	43	3.049	3.049	0.000	99	305788	250.0	159.7	
26 Carbon disulfide	76	3.202	3.201	0.001	100	686353	50.0	37.2	
27 Methyl acetate	43	3.256	3.262	-0.006	96	577121	250.0	154.4	
30 Methylene Chloride	84	3.372	3.372	0.000	90	289225	50.0	49.7	
32 Methyl tert-butyl ether	73	3.518	3.524	-0.006	95	683679	50.0	40.1	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	98	264556	50.0	45.2	
39 1,1-Dichloroethane	63	3.877	3.883	-0.006	96	470450	50.0	45.9	
43 2-Butanone (MEK)	43	4.315	4.315	0.000	97	386315	250.0	158.3	
45 cis-1,2-Dichloroethene	96	4.321	4.327	-0.006	83	298366	50.0	46.1	
50 Chloroform	83	4.558	4.564	-0.006	94	506360	50.0	46.9	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	415079	50.0	44.4	
52 Cyclohexane	56	4.728	4.728	0.000	90	360808	50.0	39.7	
55 Carbon tetrachloride	117	4.826	4.826	0.000	96	336154	50.0	47.1	
57 Benzene	78	5.002	5.002	0.000	97	1009564	50.0	46.2	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	98	381712	50.0	42.0	
62 Trichloroethene	95	5.519	5.519	0.000	95	264973	50.0	43.6	
64 Methylcyclohexane	83	5.653	5.653	0.000	90	378795	50.0	36.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63	5.738	5.738	0.000	91	244429	50.0	45.1	
68 Dichlorobromomethane	83	5.976	5.982	-0.006	99	332481	50.0	48.4	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	376297	50.0	42.6	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	833358	250.0	171.8	
74 Toluene	92	6.645	6.645	0.000	98	635368	50.0	45.3	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	98	334076	50.0	42.6	
79 1,1,2-Trichloroethane	83	7.065	7.064	0.001	94	165500	50.0	41.6	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	258977	50.0	40.5	
80 2-Hexanone	43	7.247	7.247	0.000	98	587935	250.0	167.7	
83 Chlorodibromomethane	129	7.466	7.466	0.000	90	212247	50.0	40.7	
84 Ethylene Dibromide	107	7.588	7.594	-0.006	96	190868	50.0	39.0	
87 Chlorobenzene	112	8.044	8.044	0.000	93	672937	50.0	43.7	
88 Ethylbenzene	91	8.111	8.111	0.000	99	1175069	50.0	45.8	
90 m-Xylene & p-Xylene	106	8.227	8.226	0.001	99	454489		43.9	
91 o-Xylene	106	8.652	8.652	0.000	98	449133		44.3	
92 Styrene	104	8.677	8.677	0.000	94	750727	50.0	43.5	
95 Bromoform	173	8.950	8.950	0.000	94	112294	50.0	34.6	
94 Isopropylbenzene	105	9.023	9.023	0.000	97	1134867	50.0	47.1	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	72	225801	50.0	40.4	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	563617	50.0	44.6	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	93	557568	50.0	43.7	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	518673	50.0	43.1	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.438	0.001	82	34751	50.0	32.5	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	279304	50.0	33.9	
S 124 Xylenes, Total	1				0			88.3	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

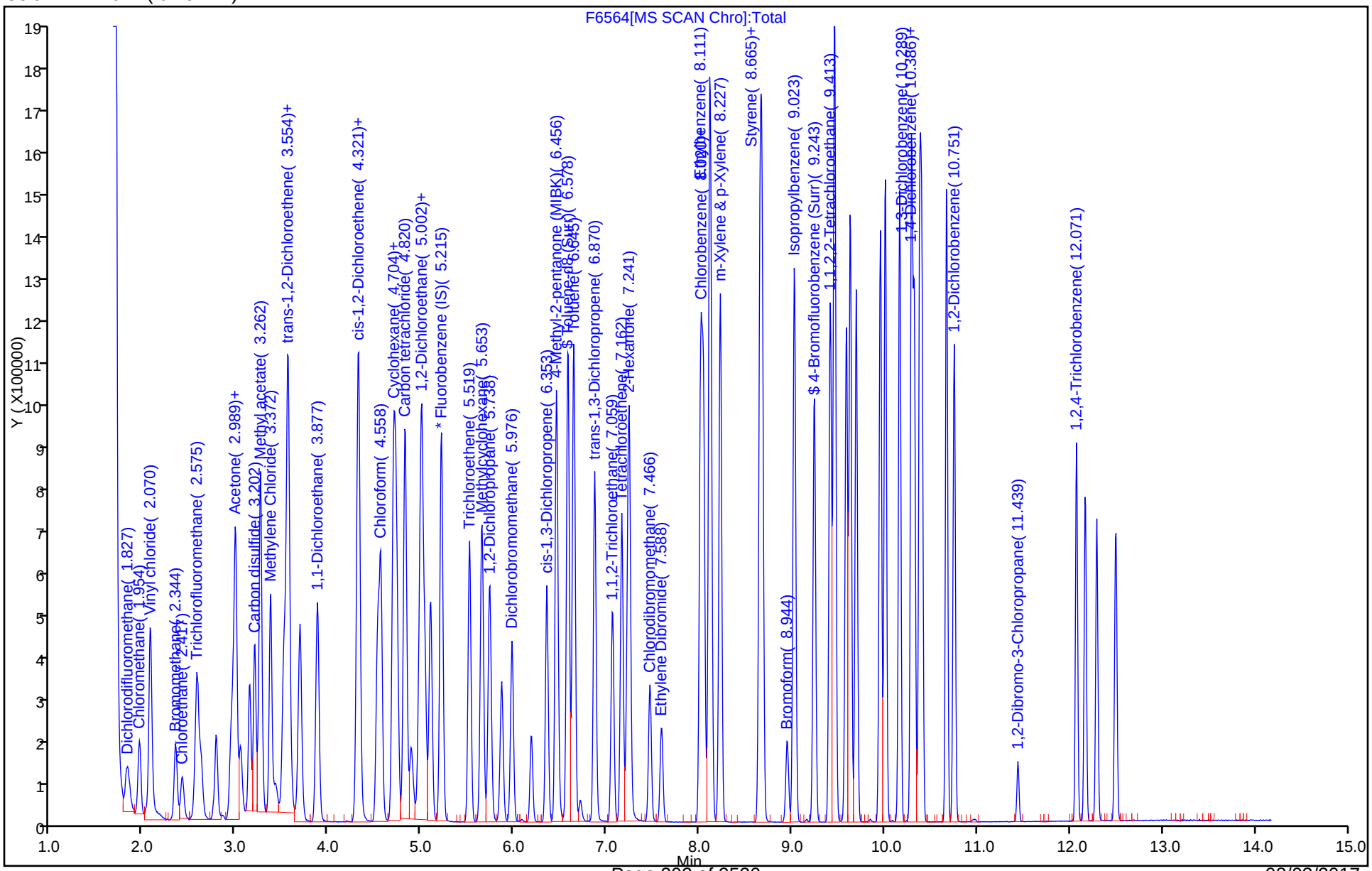
Report Date: 27-Jul-2017 19:49:07 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6564.D

Injection Date:	27-Jul-2017 19:12:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121411-D-3-F MS			Worklist Smp#:	24
Client ID:	TP-15				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD | Lab Sample ID: 480-121411-3 MSD

Matrix: Solid | Lab File ID: F6565.D

Analysis Method: 8260C | Date Collected: 07/20/2017 15:00

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 19:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 16.6 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	50.3		6.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	49.8		6.0	0.97
79-00-5	1,1,2-Trichloroethane	50.7		6.0	0.78
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	44.1		6.0	1.4
75-34-3	1,1-Dichloroethane	53.1		6.0	0.73
75-35-4	1,1-Dichloroethene	47.7		6.0	0.73
120-82-1	1,2,4-Trichlorobenzene	39.2		6.0	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	41.6		6.0	3.0
106-93-4	1,2-Dibromoethane	47.6		6.0	0.77
95-50-1	1,2-Dichlorobenzene	49.8		6.0	0.47
107-06-2	1,2-Dichloroethane	50.3		6.0	0.30
78-87-5	1,2-Dichloropropane	52.1		6.0	3.0
541-73-1	1,3-Dichlorobenzene	50.3		6.0	0.31
106-46-7	1,4-Dichlorobenzene	49.9		6.0	0.84
591-78-6	2-Hexanone	222		30	3.0
78-93-3	2-Butanone (MEK)	210		30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	222		30	2.0
67-64-1	Acetone	200		30	5.0
71-43-2	Benzene	52.5		6.0	0.29
75-27-4	Bromodichloromethane	57.6		6.0	0.80
75-25-2	Bromoform	42.5		6.0	3.0
74-83-9	Bromomethane	86.0		6.0	0.54
75-15-0	Carbon disulfide	40.7		6.0	3.0
56-23-5	Carbon tetrachloride	52.4		6.0	0.58
108-90-7	Chlorobenzene	50.8		6.0	0.79
124-48-1	Dibromochloromethane	49.5		6.0	0.77
75-00-3	Chloroethane	76.9		6.0	1.4
67-66-3	Chloroform	53.4		6.0	0.37
74-87-3	Chloromethane	49.6		6.0	0.36
156-59-2	cis-1,2-Dichloroethene	52.6		6.0	0.77
10061-01-5	cis-1,3-Dichloropropene	50.6		6.0	0.86
110-82-7	Cyclohexane	43.3		6.0	0.84
75-71-8	Dichlorodifluoromethane	42.6		6.0	0.49
100-41-4	Ethylbenzene	52.2		6.0	0.41
98-82-8	Isopropylbenzene	52.6		6.0	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD | Lab Sample ID: 480-121411-3 MSD

Matrix: Solid | Lab File ID: F6565.D

Analysis Method: 8260C | Date Collected: 07/20/2017 15:00

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 19:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 16.6 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	189		30	3.6
1634-04-4	Methyl tert-butyl ether	49.1		6.0	0.59
108-87-2	Methylcyclohexane	40.7		6.0	0.91
75-09-2	Methylene Chloride	57.0		6.0	2.8
100-42-5	Styrene	50.7		6.0	0.30
127-18-4	Tetrachloroethene	45.4		6.0	0.80
108-88-3	Toluene	51.7		6.0	0.45
156-60-5	trans-1,2-Dichloroethene	51.0		6.0	0.62
10061-02-6	trans-1,3-Dichloropropene	51.3		6.0	2.6
79-01-6	Trichloroethene	50.1		6.0	1.3
75-69-4	Trichlorofluoromethane	50.4		6.0	0.57
75-01-4	Vinyl chloride	47.8		6.0	0.73
1330-20-7	Xylenes, Total	101		12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	77		64-126
2037-26-5	Toluene-d8 (Surr)	93		71-125
460-00-4	4-Bromofluorobenzene (Surr)	102		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6565.D
Lims ID: 480-121411-D-3-G MSD
Client ID: TP-15
Sample Type: MSD
Inject. Date: 27-Jul-2017 19:38:30 ALS Bottle#: 18 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121411-D-3-G MSD
Misc. Info.: 480-0064372-025
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 17:47:52 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: o'briens Date: 27-Jul-2017 19:49:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	216650	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	438659	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	417984	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	142569	50.0	38.7	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	93	968186	50.0	46.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.242	0.001	88	358680	50.0	51.1	
10 Dichlorodifluoromethane	85	1.833	1.833	0.001	99	239207	50.0	35.6	
12 Chloromethane	50	1.960	1.954	0.006	99	233854	50.0	41.4	
13 Vinyl chloride	62	2.070	2.064	0.006	98	214219	50.0	39.9	
14 Bromomethane	94	2.350	2.344	0.006	92	135607	50.0	71.8	
15 Chloroethane	64	2.423	2.417	0.006	100	106670	50.0	64.1	
17 Trichlorofluoromethane	101	2.624	2.593	0.031	99	292001	50.0	42.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.976	2.976	0.000	93	213515	50.0	36.8	
22 1,1-Dichloroethene	96	2.995	2.994	0.001	98	208941	50.0	39.8	
23 Acetone	43	3.049	3.049	0.000	100	327939	250.0	166.6	
26 Carbon disulfide	76	3.202	3.201	0.001	100	645409	50.0	34.0	
27 Methyl acetate	43	3.262	3.262	0.000	95	605516	250.0	157.5	
30 Methylene Chloride	84	3.372	3.372	0.000	91	285218	50.0	47.6	
32 Methyl tert-butyl ether	73	3.524	3.524	0.000	95	718824	50.0	41.0	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	98	255997	50.0	42.5	
39 1,1-Dichloroethane	63	3.883	3.883	0.000	97	467172	50.0	44.3	
43 2-Butanone (MEK)	43	4.315	4.315	0.000	98	439391	250.0	175.1	
45 cis-1,2-Dichloroethene	96	4.327	4.327	0.000	83	291887	50.0	43.9	
50 Chloroform	83	4.564	4.564	0.000	94	494713	50.0	44.6	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	403401	50.0	41.9	
52 Cyclohexane	56	4.729	4.728	0.001	90	336978	50.0	36.1	
55 Carbon tetrachloride	117	4.832	4.826	0.006	98	321065	50.0	43.7	
57 Benzene	78	5.002	5.002	0.000	97	985015	50.0	43.8	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	97	391808	50.0	42.0	
62 Trichloroethene	95	5.519	5.519	0.000	95	261467	50.0	41.8	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	360426	50.0	34.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	91	242508	50.0	43.5	
68 Dichlorobromomethane	83	5.982	5.982	0.000	99	339928	50.0	48.1	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	383468	50.0	42.3	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	927593	250.0	184.9	
74 Toluene	92	6.645	6.645	0.000	98	625802	50.0	43.1	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	97	347581	50.0	42.8	
79 1,1,2-Trichloroethane	83	7.065	7.064	0.001	94	174032	50.0	42.3	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	250504	50.0	37.8	
80 2-Hexanone	43	7.247	7.247	0.000	96	671305	250.0	185.2	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	223333	50.0	41.3	
84 Ethylene Dibromide	107	7.594	7.594	0.000	97	201100	50.0	39.7	
87 Chlorobenzene	112	8.044	8.044	0.000	93	675853	50.0	42.4	
88 Ethylbenzene	91	8.111	8.111	0.000	98	1155400	50.0	43.6	
90 m-Xylene & p-Xylene	106	8.227	8.226	0.001	99	446875		41.8	
91 o-Xylene	106	8.659	8.652	0.006	97	444560		42.5	
92 Styrene	104	8.677	8.677	0.000	94	754012	50.0	42.3	
95 Bromoform	173	8.951	8.950	0.001	94	119584	50.0	35.5	
94 Isopropylbenzene	105	9.030	9.023	0.007	96	1124240	50.0	43.9	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	72	247100	50.0	41.6	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	563974	50.0	42.0	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.000	95	564171	50.0	41.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	530923	50.0	41.5	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.438	0.001	81	39372	50.0	34.7	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	286157	50.0	32.7	
S 124 Xylenes, Total	1				0			84.2	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

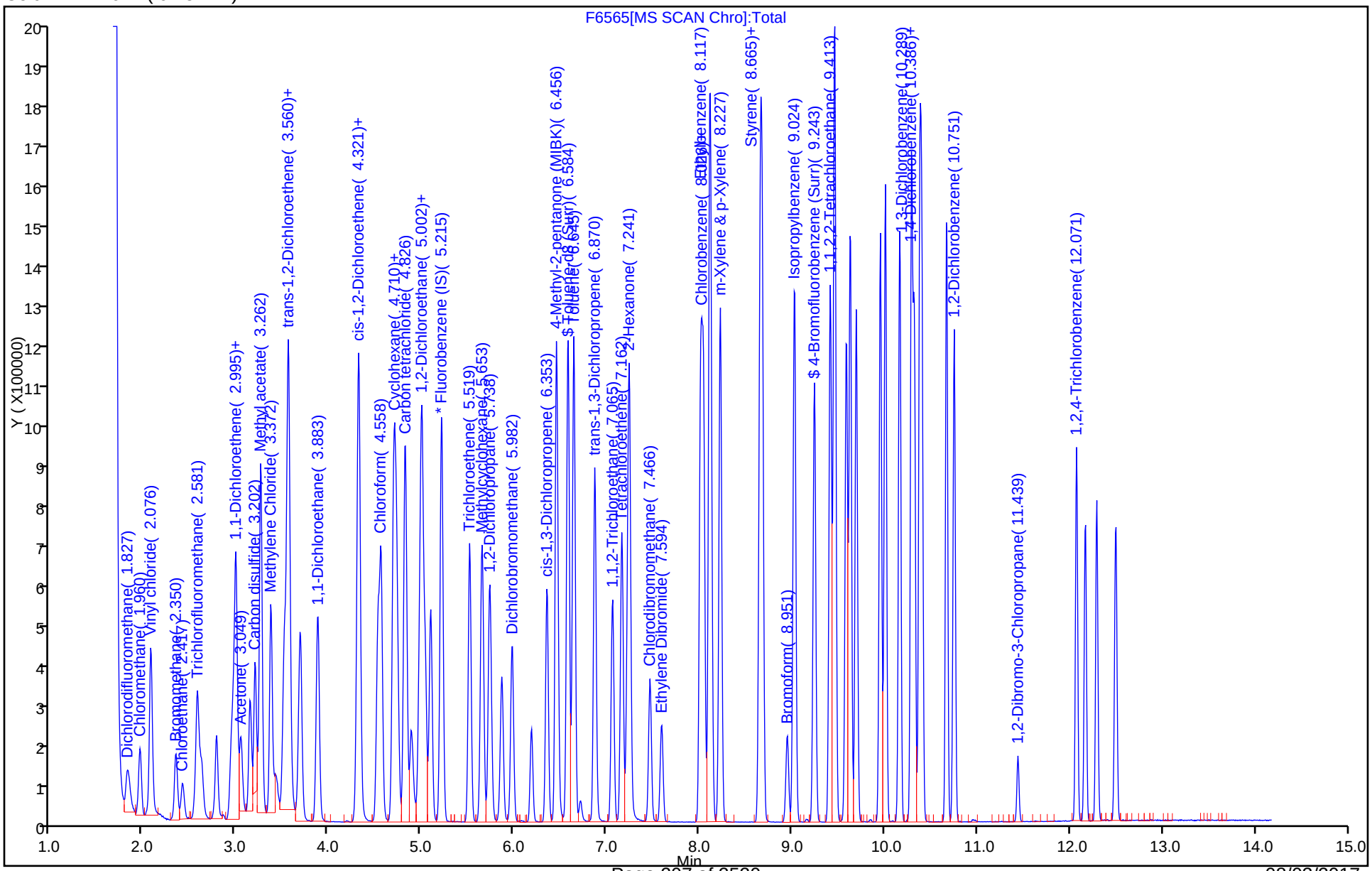
Report Date: 27-Jul-2017 19:49:24 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6565.D

Injection Date:	27-Jul-2017 19:38:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121411-D-3-G MSD			Worklist Smp#:	25
Client ID:	TP-15				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP5973F Start Date: 07/20/2017 10:51

Analysis Batch Number: 367895 End Date: 07/20/2017 19:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-367895/2		07/20/2017 10:51	1	F6324.D	ZB-624 (30) 0.25(mm)
IC 480-367895/4		07/20/2017 11:43	1	F6326.D	ZB-624 (30) 0.25(mm)
IC 480-367895/5		07/20/2017 12:09	1	F6327.D	ZB-624 (30) 0.25(mm)
IC 480-367895/6		07/20/2017 12:34	1	F6328.D	ZB-624 (30) 0.25(mm)
IC 480-367895/7		07/20/2017 13:00	1	F6329.D	ZB-624 (30) 0.25(mm)
ICIS 480-367895/8		07/20/2017 13:25	1	F6330.D	ZB-624 (30) 0.25(mm)
IC 480-367895/9		07/20/2017 13:50	1	F6331.D	ZB-624 (30) 0.25(mm)
IC 480-367895/10		07/20/2017 14:16	1	F6332.D	ZB-624 (30) 0.25(mm)
IC 480-367895/12		07/20/2017 15:08	1		ZB-624 (30) 0.25(mm)
IC 480-367895/13		07/20/2017 15:33	1		ZB-624 (30) 0.25(mm)
IC 480-367895/14		07/20/2017 15:58	1		ZB-624 (30) 0.25(mm)
IC 480-367895/15		07/20/2017 16:24	1		ZB-624 (30) 0.25(mm)
IC 480-367895/16		07/20/2017 16:50	1		ZB-624 (30) 0.25(mm)
IC 480-367895/17		07/20/2017 17:16	1		ZB-624 (30) 0.25(mm)
IC 480-367895/18		07/20/2017 17:41	1		ZB-624 (30) 0.25(mm)
MDLV 480-367895/20		07/20/2017 18:32	1		ZB-624 (30) 0.25(mm)
MDLV 480-367895/21		07/20/2017 18:58	1		ZB-624 (30) 0.25(mm)
ICV 480-367895/22		07/20/2017 19:23	1		ZB-624 (30) 0.25(mm)
ICV 480-367895/23		07/20/2017 19:48	1		ZB-624 (30) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP5973F Start Date: 07/26/2017 08:47

Analysis Batch Number: 368716 End Date: 07/26/2017 20:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-368716/2		07/26/2017 08:47	1	F6491.D	ZB-624 (30) 0.25(mm)
CCVIS 480-368716/3		07/26/2017 09:14	1	F6492.D	ZB-624 (30) 0.25(mm)
CCV 480-368716/4		07/26/2017 09:51	1		ZB-624 (30) 0.25(mm)
LCS 480-368757/1-A		07/26/2017 10:33	1	F6494.D	ZB-624 (30) 0.25(mm)
MB 480-368757/2-A		07/26/2017 11:23	1	F6496.D	ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 11:58	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 12:24	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 12:49	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 13:15	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 13:40	1		ZB-624 (30) 0.25(mm)
480-121411-1		07/26/2017 14:06	1	F6502.D	ZB-624 (30) 0.25(mm)
480-121411-2		07/26/2017 14:32	1	F6503.D	ZB-624 (30) 0.25(mm)
480-121411-3		07/26/2017 14:58	1	F6504.D	ZB-624 (30) 0.25(mm)
480-121411-4		07/26/2017 15:23	1	F6505.D	ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 15:49	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 16:15	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 16:40	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 17:06	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 17:31	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 17:56	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 18:22	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 18:48	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 19:13	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 19:39	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 20:05	1		ZB-624 (30) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP5973F Start Date: 07/27/2017 09:12

Analysis Batch Number: 368964 End Date: 07/27/2017 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-368964/2		07/27/2017 09:12	1	F6542.D	ZB-624 (30) 0.25(mm)
CCVIS 480-368964/3		07/27/2017 09:37	1	F6543.D	ZB-624 (30) 0.25(mm)
CCV 480-368964/4		07/27/2017 10:14	1		ZB-624 (30) 0.25(mm)
LCS 480-369004/1-A		07/27/2017 10:55	1	F6545.D	ZB-624 (30) 0.25(mm)
MB 480-369004/2-A		07/27/2017 11:47	1	F6547.D	ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 12:26	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 12:51	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 13:17	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 13:42	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 14:07	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 14:33	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 14:58	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 15:24	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 15:49	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 16:14	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 16:40	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 17:05	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 17:31	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 17:56	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 18:21	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 18:47	1		ZB-624 (30) 0.25(mm)
480-121411-3 MS		07/27/2017 19:12	1	F6564.D	ZB-624 (30) 0.25(mm)
480-121411-3 MSD		07/27/2017 19:38	1	F6565.D	ZB-624 (30) 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368757 Batch Start Date: 07/26/17 08:56 Batch Analyst: Moffat, Alyssa M

Batch Method: 5035A_L Batch End Date: 07/26/17 12:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00103	GAS CORP mix 00231
LCS 480-368757/1		5035A_L, 8260C		24.97 g	29.97 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-368757/2		5035A_L, 8260C		25.17 g	30.17 g	5 g	5 mL		
480-121411-D-1	TP-07	5035A_L, 8260C	T	25.19 g	30.19 g	5 g	5 mL		
480-121411-D-2	TP-09	5035A_L, 8260C	T	25.16 g	30.17 g	5.01 g	5 mL		
480-121411-D-3	TP-15	5035A_L, 8260C	T	24.90 g	29.99 g	5.09 g	5 mL		
480-121411-D-4	DUP	5035A_L, 8260C	T	25.21 g	30.23 g	5.02 g	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-368757/1		5035A_L, 8260C							
MB 480-368757/2		5035A_L, 8260C							
480-121411-D-1	TP-07	5035A_L, 8260C	T	bulk					
480-121411-D-2	TP-09	5035A_L, 8260C	T	bulk					
480-121411-D-3	TP-15	5035A_L, 8260C	T	bulk					
480-121411-D-4	DUP	5035A_L, 8260C	T	bulk					

Batch Notes	
Balance ID	b202613314
Batch Comment	sandlot 16d195205

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 369004 Batch Start Date: 07/27/17 09:57 Batch Analyst: Moffat, Alyssa M

Batch Method: 5035A_L Batch End Date: 07/27/17 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00103	GAS CORP mix 00231
LCS 480-369004/1		5035A_L, 8260C		25.53 g	30.53 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-369004/2		5035A_L, 8260C		25.52 g	30.52 g	5 g	5 mL		
480-121411-D-3 MS	TP-15	5035A_L, 8260C	T	25.40 g	30.45 g	5.05 g	5 mL	2.5 uL	2.5 uL
480-121411-D-3 MSD	TP-15	5035A_L, 8260C	T	25.21 g	30.21 g	5 g	5 mL	2.5 uL	2.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-369004/1		5035A_L, 8260C							
MB 480-369004/2		5035A_L, 8260C							
480-121411-D-3 MS	TP-15	5035A_L, 8260C	T	bulk client QC confirm IS out					
480-121411-D-3 MSD	TP-15	5035A_L, 8260C	T	bulk client QC confirm IS out					

Batch Notes	
Balance ID	B202613314
Batch Comment	sandlot 16d195205

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
TP-07	480-121411-1	71	74	70	82	97	95
TP-09	480-121411-2	90	96	99	100	93	110
TP-15	480-121411-3	74	75	78	86	84	94
DUP	480-121411-4	72	76	84	92	99	95
	MB 480-368148/1-A	81	79	83	82	77	101
	LCS 480-368148/2-A	86	89	88	88	95	97
TP-15 MS	480-121411-3 MS	66	78	81	83	94	92
TP-15 MSD	480-121411-3 MSD	71	85	82	89	97	95

	QC LIMITS
2FP = 2-Fluorophenol	52-120
PHL = Phenol-d5	54-120
NBZ = Nitrobenzene-d5	53-120
FBP = 2-Fluorobiphenyl	60-120
TBP = 2,4,6-Tribromophenol	54-120
TPHd14 = p-Terphenyl-d14	65-121

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304170.D

Lab ID: LCS 480-368148/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Biphenyl	1650	1490	90	59-120	
bis (2-chloroisopropyl) ether	1650	1510	92	44-120	
2,4,5-Trichlorophenol	1650	1490	90	59-126	
2,4,6-Trichlorophenol	1650	1540	94	59-123	
2,4-Dichlorophenol	1650	1490	90	61-120	
2,4-Dimethylphenol	1650	1570	95	59-120	
2,4-Dinitrophenol	3300	2880	87	41-146	
2,4-Dinitrotoluene	1650	1590	97	63-120	
2,6-Dinitrotoluene	1650	1490	90	66-120	
2-Chloronaphthalene	1650	1470	89	57-120	
2-Chlorophenol	1650	1420	86	53-120	
2-Methylnaphthalene	1650	1450	88	59-120	
2-Methylphenol	1650	1510	92	54-120	
2-Nitroaniline	1650	1600	97	61-120	
2-Nitrophenol	1650	1440	87	56-120	
3,3'-Dichlorobenzidine	3300	2860	87	54-120	
3-Nitroaniline	1650	1420	86	48-120	
4,6-Dinitro-2-methylphenol	3300	2940	89	49-122	
4-Bromophenyl phenyl ether	1650	1630	99	58-120	
4-Chloro-3-methylphenol	1650	1500	91	61-120	
4-Chloroaniline	1650	1300	79	38-120	
4-Chlorophenyl phenyl ether	1650	1560	95	63-124	
4-Methylphenol	1650	1490	90	55-120	
4-Nitroaniline	1650	1480	90	56-120	
4-Nitrophenol	3300	3210	97	43-147	
Acenaphthene	1650	1500	91	62-120	
Acenaphthylene	1650	1500	91	58-121	
Acetophenone	1650	1460	89	54-120	
Anthracene	1650	1660	101	62-120	
Atrazine	3300	3580	108	60-127	
Benzaldehyde	3300	2260	68	10-150	
Benzo(a)anthracene	1650	1660	100	65-120	
Benzo(a)pyrene	1650	1680	102	64-120	
Benzo(b)fluoranthene	1650	1670	101	64-120	
Benzo(g,h,i)perylene	1650	1690	103	45-145	
Benzo(k)fluoranthene	1650	1650	100	65-120	
Bis(2-chloroethoxy)methane	1650	1460	89	55-120	
Bis(2-chloroethyl)ether	1650	1400	85	45-120	
Bis(2-ethylhexyl) phthalate	1650	1630	99	61-133	
Butyl benzyl phthalate	1650	1630	99	61-129	
Caprolactam	3300	3020	92	47-120	
Carbazole	1650	1650	100	65-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304170.D

Lab ID: LCS 480-368148/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chrysene	1650	1610	98	64-120	
Di-n-butyl phthalate	1650	1650	100	58-130	
Di-n-octyl phthalate	1650	1680	102	57-133	
Dibenz(a,h)anthracene	1650	1710	104	54-132	
Dibenzofuran	1650	1520	92	63-120	
Diethyl phthalate	1650	1610	98	66-120	
Dimethyl phthalate	1650	1580	96	65-124	
Fluoranthene	1650	1690	102	62-120	
Fluorene	1650	1530	93	63-120	
Hexachlorobenzene	1650	1690	103	60-120	
Hexachlorobutadiene	1650	1390	85	45-120	
Hexachlorocyclopentadiene	1650	1410	86	47-120	
Hexachloroethane	1650	1320	80	41-120	
Indeno(1,2,3-cd)pyrene	1650	1710	104	56-134	
Isophorone	1650	1520	92	56-120	
N-Nitrosodi-n-propylamine	1650	1430	86	52-120	
N-Nitrosodiphenylamine	1650	1600	97	51-128	
Naphthalene	1650	1390	84	55-120	
Nitrobenzene	1650	1460	89	54-120	
Pentachlorophenol	3300	2980	90	51-120	
Phenanthrene	1650	1630	99	60-120	
Phenol	1650	1360	83	53-120	
Pyrene	1650	1600	97	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304171.D

Lab ID: 480-121411-3 MS Client ID: TP-15 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Biphenyl	1970	ND	1650	84	58-120	
bis (2-chloroisopropyl) ether	1970	ND	1630	83	31-120	
2,4,5-Trichlorophenol	1970	ND	1910	97	46-120	
2,4,6-Trichlorophenol	1970	ND	1800	91	41-123	
2,4-Dichlorophenol	1970	ND	1590	81	45-120	
2,4-Dimethylphenol	1970	ND	1620	82	52-120	
2,4-Dinitrophenol	3940	ND	ND	NC	41-146	
2,4-Dinitrotoluene	1970	ND	1840	94	63-125	
2,6-Dinitrotoluene	1970	ND	1710	87	66-120	
2-Chloronaphthalene	1970	ND	1710	87	57-120	
2-Chlorophenol	1970	ND	1400	71	43-120	
2-Methylnaphthalene	1970	ND	1650	84	55-120	
2-Methylphenol	1970	ND	1540	78	48-120	
2-Nitroaniline	1970	ND	1810 J	92	61-120	
2-Nitrophenol	1970	ND	1680	85	37-120	
3,3'-Dichlorobenzidine	3940	ND	3530	90	37-126	
3-Nitroaniline	1970	ND	1860 J	94	48-120	
4,6-Dinitro-2-methylphenol	3940	ND	3210	82	23-149	
4-Bromophenyl phenyl ether	1970	ND	1910	97	58-120	
4-Chloro-3-methylphenol	1970	ND	1820	92	49-125	
4-Chloroaniline	1970	ND	1400	71	38-120	
4-Chlorophenyl phenyl ether	1970	ND	1910	97	63-124	
4-Methylphenol	1970	ND	1570 J	80	50-120	
4-Nitroaniline	1970	ND	1740 J	88	47-120	
4-Nitrophenol	3940	ND	3780	96	31-147	
Acenaphthene	1970	ND	1840	93	60-120	
Acenaphthylene	1970	ND	1840	94	58-121	
Acetophenone	1970	ND	1500	76	47-120	
Anthracene	1970	ND	1840	93	62-120	
Atrazine	3940	ND	4060	103	60-150	
Benzaldehyde	3940	ND	2320	59	10-150	
Benzo(a)anthracene	1970	ND	1830	93	65-120	
Benzo(a)pyrene	1970	ND	1870	95	64-120	
Benzo(b)fluoranthene	1970	ND	1770	90	64-120	
Benzo(g,h,i)perylene	1970	ND	1900	96	45-145	
Benzo(k)fluoranthene	1970	ND	2090	106	65-120	
Bis(2-chloroethoxy)methane	1970	ND	1640	83	52-120	
Bis(2-chloroethyl)ether	1970	ND	1560	79	45-120	
Bis(2-ethylhexyl) phthalate	1970	ND	1870	95	61-133	
Butyl benzyl phthalate	1970	ND	1880	95	61-120	
Caprolactam	3940	ND	3640	92	37-133	
Carbazole	1970	ND	1930	98	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304171.D

Lab ID: 480-121411-3 MS Client ID: TP-15 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chrysene	1970	ND	2000	102	64-120	
Di-n-butyl phthalate	1970	ND	1880	95	58-130	
Di-n-octyl phthalate	1970	ND	1940	98	57-133	
Dibenz(a,h)anthracene	1970	ND	1950	99	54-132	
Dibenzofuran	1970	ND	1770	90	62-120	
Diethyl phthalate	1970	ND	1800	92	66-120	
Dimethyl phthalate	1970	ND	1870	95	65-124	
Fluoranthene	1970	ND	1890	96	62-120	
Fluorene	1970	ND	1790	91	63-120	
Hexachlorobenzene	1970	ND	1940	99	60-120	
Hexachlorobutadiene	1970	ND	1520	77	45-120	
Hexachlorocyclopentadiene	1970	ND	1550	79	31-120	
Hexachloroethane	1970	ND	1350	68	21-120	
Indeno(1,2,3-cd)pyrene	1970	ND	2000	102	56-134	
Isophorone	1970	ND	1640	84	56-120	
N-Nitrosodi-n-propylamine	1970	ND	1580	80	46-120	
N-Nitrosodiphenylamine	1970	ND	1790	91	20-128	
Naphthalene	1970	ND	1580	80	46-120	
Nitrobenzene	1970	ND	1680	85	49-120	
Pentachlorophenol	3940	ND	2960	75	25-136	
Phenanthrene	1970	ND	1900	97	60-122	
Phenol	1970	ND	1440	73	50-120	
Pyrene	1970	ND	1870	95	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304172.D

Lab ID: 480-121411-3 MSD Client ID: TP-15 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Biphenyl	1990	1820	91	9	20	58-120	
bis (2-chloroisopropyl) ether	1990	1700	85	4	24	31-120	
2,4,5-Trichlorophenol	1990	1950	98	2	18	46-120	
2,4,6-Trichlorophenol	1990	1840	92	2	19	41-123	
2,4-Dichlorophenol	1990	1700	85	7	19	45-120	
2,4-Dimethylphenol	1990	1710	86	5	42	52-120	
2,4-Dinitrophenol	3990	ND	NC	NC	22	41-146	
2,4-Dinitrotoluene	1990	1890	95	3	20	63-125	
2,6-Dinitrotoluene	1990	1820	91	6	15	66-120	
2-Chloronaphthalene	1990	1710	86	0	21	57-120	
2-Chlorophenol	1990	1510	76	8	25	43-120	
2-Methylnaphthalene	1990	1680	84	2	21	55-120	
2-Methylphenol	1990	1640	82	6	27	48-120	
2-Nitroaniline	1990	1940 J	97	7	15	61-120	
2-Nitrophenol	1990	1720	86	3	18	37-120	
3,3'-Dichlorobenzidine	3990	3650	92	3	25	37-126	
3-Nitroaniline	1990	1850 J	93	0	19	48-120	
4,6-Dinitro-2-methylphenol	3990	3220	81	0	15	23-149	
4-Bromophenyl phenyl ether	1990	2000	100	5	15	58-120	
4-Chloro-3-methylphenol	1990	1880	94	3	27	49-125	
4-Chloroaniline	1990	1480	74	6	22	38-120	
4-Chlorophenyl phenyl ether	1990	1880	94	2	16	63-124	
4-Methylphenol	1990	1650 J	83	5	24	50-120	
4-Nitroaniline	1990	1780 J	89	2	24	47-120	
4-Nitrophenol	3990	3790	95	0	25	31-147	
Acenaphthene	1990	1830	92	0	35	60-120	
Acenaphthylene	1990	1790	90	3	18	58-121	
Acetophenone	1990	1590	80	6	20	47-120	
Anthracene	1990	1900	95	3	15	62-120	
Atrazine	3990	4190	105	3	20	60-150	
Benzaldehyde	3990	2580	65	11	20	10-150	
Benzo(a)anthracene	1990	2020	101	10	15	65-120	
Benzo(a)pyrene	1990	1900	95	1	15	64-120	
Benzo(b)fluoranthene	1990	1830	92	3	15	64-120	
Benzo(g,h,i)perylene	1990	1920	96	1	15	45-145	
Benzo(k)fluoranthene	1990	2090	105	0	22	65-120	
Bis(2-chloroethoxy)methane	1990	1680	84	2	17	52-120	
Bis(2-chloroethyl)ether	1990	1550	78	1	21	45-120	
Bis(2-ethylhexyl) phthalate	1990	1960	99	5	15	61-133	
Butyl benzyl phthalate	1990	1990	100	6	16	61-120	
Caprolactam	3990	3880	97	7	20	37-133	
Carbazole	1990	1940	97	0	20	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304172.D

Lab ID: 480-121411-3 MSD Client ID: TP-15 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chrysene	1990	2070	104	3	15	64-120	
Di-n-butyl phthalate	1990	2010	101	7	15	58-130	
Di-n-octyl phthalate	1990	2020	101	4	16	57-133	
Dibenz(a,h)anthracene	1990	1900	96	3	15	54-132	
Dibenzofuran	1990	1850	93	5	15	62-120	
Diethyl phthalate	1990	1990	100	10	15	66-120	
Dimethyl phthalate	1990	1890	95	1	15	65-124	
Fluoranthene	1990	2000	100	6	15	62-120	
Fluorene	1990	1870	94	4	15	63-120	
Hexachlorobenzene	1990	1900	95	2	15	60-120	
Hexachlorobutadiene	1990	1530	77	1	44	45-120	
Hexachlorocyclopentadiene	1990	1650	83	6	49	31-120	
Hexachloroethane	1990	1480	74	9	46	21-120	
Indeno(1,2,3-cd)pyrene	1990	1990	100	1	15	56-134	
Isophorone	1990	1710	86	4	17	56-120	
N-Nitrosodi-n-propylamine	1990	1670	84	6	31	46-120	
N-Nitrosodiphenylamine	1990	1890	95	6	15	20-128	
Naphthalene	1990	1620	81	3	29	46-120	
Nitrobenzene	1990	1590	80	6	24	49-120	
Pentachlorophenol	3990	3220	81	8	35	25-136	
Phenanthrene	1990	2010	101	5	15	60-122	
Phenol	1990	1590	80	10	35	50-120	
Pyrene	1990	1920	96	3	35	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab File ID: V304169.D Lab Sample ID: MB 480-368148/1-A

Matrix: Solid Date Extracted: 07/21/2017 14:18

Instrument ID: HP5973V Date Analyzed: 07/24/2017 14:33

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-368148/2-A	V304170.D	07/24/2017 15:00
TP-15 MS	480-121411-3 MS	V304171.D	07/24/2017 15:26
TP-15 MSD	480-121411-3 MSD	V304172.D	07/24/2017 15:53
TP-15	480-121411-3	V304173.D	07/24/2017 16:20
TP-07	480-121411-1	V304175.D	07/24/2017 17:12
TP-09	480-121411-2	V304176.D	07/24/2017 17:38
DUP	480-121411-4	V304177.D	07/24/2017 18:04

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab File ID: V303867.D DFTPP Injection Date: 07/06/2017

Instrument ID: HP5973V DFTPP Injection Time: 14:43

Analysis Batch No.: 365690

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	51.3	
68	Less than 2% of mass 69	0.5	(1.1) 1
69	Mass 69 Relative abundance	44.6	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	45.3	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.5	
275	10-60% of Base Peak	27.5	
365	Greater than 1% of mass 198	4.4	
441	present but less than 24% of mass 442	10.6	(14.7) 2
442	Greater than 50% of mass 198	71.7	
443	15-24% of mass 442	13.3	(18.5) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-365690/3	V303868.D	07/06/2017	15:08
	IC 480-365690/4	V303869.D	07/06/2017	15:34
	ICIS 480-365690/5	V303870.D	07/06/2017	16:00
	IC 480-365690/6	V303871.D	07/06/2017	16:26
	IC 480-365690/7	V303872.D	07/06/2017	16:52
	IC 480-365690/8	V303873.D	07/06/2017	17:18

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab File ID: V304166.D DFTPP Injection Date: 07/24/2017

Instrument ID: HP5973V DFTPP Injection Time: 13:15

Analysis Batch No.: 368383

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	54.3	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	46.4	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	47.9	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.6	
275	10-60% of Base Peak	26.6	
365	Greater than 1% of mass 198	3.4	
441	present but less than 24% of mass 442	10.2	(15.3) 2
442	Greater than 50% of mass 198	66.5	
443	15-24% of mass 442	13.2	(19.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-368383/3	V304167.D	07/24/2017	13:40
	MB 480-368148/1-A	V304169.D	07/24/2017	14:33
	LCS 480-368148/2-A	V304170.D	07/24/2017	15:00
TP-15 MS	480-121411-3 MS	V304171.D	07/24/2017	15:26
TP-15 MSD	480-121411-3 MSD	V304172.D	07/24/2017	15:53
TP-15	480-121411-3	V304173.D	07/24/2017	16:20
TP-07	480-121411-1	V304175.D	07/24/2017	17:12
TP-09	480-121411-2	V304176.D	07/24/2017	17:38
DUP	480-121411-4	V304177.D	07/24/2017	18:04

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: ICIS 480-365690/5 Date Analyzed: 07/06/2017 16:00

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V303870.D Heated Purge: (Y/N) N

Calibration ID: 30821

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		59883	5.59	212670	7.14	103122	9.21
UPPER LIMIT		119766	6.09	425340	7.64	206244	9.71
LOWER LIMIT		29942	5.09	106335	6.64	51561	8.71
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368383/3		43662	5.56	145970	7.11	77617	9.17

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: ICIS 480-365690/5 Date Analyzed: 07/06/2017 16:00

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V303870.D Heated Purge: (Y/N) N

Calibration ID: 30821

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		201662	10.83	207078	13.22	207879	14.37
UPPER LIMIT		403324	11.33	414156	13.72	415758	14.87
LOWER LIMIT		100831	10.33	103539	12.72	103940	13.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368383/3		154131	10.80	173827	13.19	175958	14.33

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: CCVIS 480-368383/3 Date Analyzed: 07/24/2017 13:40

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V304167.D Heated Purge: (Y/N) N

Calibration ID: 30821

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		43662	5.56	145970	7.11	77617	9.17
UPPER LIMIT		87324	6.06	291940	7.61	155234	9.67
LOWER LIMIT		21831	5.06	72985	6.61	38809	8.67
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-368148/1-A		54373	5.56	189208	7.11	95521	9.17
LCS 480-368148/2-A		46330	5.56	162862	7.11	80956	9.17
480-121411-3 MS	TP-15 MS	46154	5.56	155106	7.11	78089	9.17
480-121411-3 MSD	TP-15 MSD	47291	5.56	165675	7.11	81321	9.17
480-121411-3	TP-15	49228	5.56	172926	7.11	87671	9.17
480-121411-1	TP-07	41913	5.56	153065	7.11	75304	9.17
480-121411-2	TP-09	42261	5.56	149723	7.11	73622	9.17
480-121411-4	DUP	47111	5.56	161470	7.11	80777	9.17

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: CCVIS 480-368383/3 Date Analyzed: 07/24/2017 13:40

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V304167.D Heated Purge: (Y/N) N

Calibration ID: 30821

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		154131	10.80	173827	13.19	175958	14.33
UPPER LIMIT		308262	11.30	347654	13.69	351916	14.83
LOWER LIMIT		77066	10.30	86914	12.69	87979	13.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-368148/1-A		184743	10.80	184737	13.19	177241	14.33
LCS 480-368148/2-A		155835	10.80	170120	13.19	169586	14.33
480-121411-3 MS	TP-15 MS	156467	10.80	173148	13.19	171925	14.33
480-121411-3 MSD	TP-15 MSD	161586	10.80	178087	13.19	176621	14.33
480-121411-3	TP-15	177408	10.80	191821	13.19	193427	14.33
480-121411-1	TP-07	158072	10.80	174488	13.19	175430	14.33
480-121411-2	TP-09	146588	10.80	150645	13.19	161187	14.33
480-121411-4	DUP	166076	10.80	174430	13.19	176880	14.33

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-07 | Lab Sample ID: 480-121411-1

Matrix: Solid | Lab File ID: V304175.D

Analysis Method: 8270D | Date Collected: 07/20/2017 09:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.31(g) | Date Analyzed: 07/24/2017 17:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1100	160
108-60-1	bis (2-chloroisopropyl) ether	ND		1100	210
95-95-4	2,4,5-Trichlorophenol	ND		1100	290
88-06-2	2,4,6-Trichlorophenol	ND		1100	210
120-83-2	2,4-Dichlorophenol	ND		1100	110
105-67-9	2,4-Dimethylphenol	ND		1100	260
51-28-5	2,4-Dinitrophenol	ND		10000	4900
121-14-2	2,4-Dinitrotoluene	ND		1100	220
606-20-2	2,6-Dinitrotoluene	ND		1100	130
91-58-7	2-Chloronaphthalene	ND		1100	180
95-57-8	2-Chlorophenol	ND		1100	190
91-57-6	2-Methylnaphthalene	ND		1100	210
95-48-7	2-Methylphenol	ND		1100	130
88-74-4	2-Nitroaniline	ND		2100	160
88-75-5	2-Nitrophenol	ND		1100	300
91-94-1	3,3'-Dichlorobenzidine	ND		2100	1300
99-09-2	3-Nitroaniline	ND		2100	290
534-52-1	4,6-Dinitro-2-methylphenol	ND		2100	1100
101-55-3	4-Bromophenyl phenyl ether	ND		1100	150
59-50-7	4-Chloro-3-methylphenol	ND		1100	260
106-47-8	4-Chloroaniline	ND		1100	260
7005-72-3	4-Chlorophenyl phenyl ether	ND		1100	130
106-44-5	4-Methylphenol	ND		2100	130
100-01-6	4-Nitroaniline	ND		2100	560
100-02-7	4-Nitrophenol	ND		2100	740
83-32-9	Acenaphthene	ND		1100	160
208-96-8	Acenaphthylene	ND		1100	140
98-86-2	Acetophenone	ND		1100	140
120-12-7	Anthracene	ND		1100	260
1912-24-9	Atrazine	ND		1100	370
100-52-7	Benzaldehyde	ND		1100	840
56-55-3	Benzo(a)anthracene	190	J	1100	110
50-32-8	Benzo(a)pyrene	ND		1100	160
205-99-2	Benzo(b)fluoranthene	ND		1100	170

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-07 | Lab Sample ID: 480-121411-1

Matrix: Solid | Lab File ID: V304175.D

Analysis Method: 8270D | Date Collected: 07/20/2017 09:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.31(g) | Date Analyzed: 07/24/2017 17:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		1100	110
207-08-9	Benzo(k)fluoranthene	ND		1100	140
111-91-1	Bis(2-chloroethoxy)methane	ND		1100	230
111-44-4	Bis(2-chloroethyl)ether	ND		1100	140
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1100	360
85-68-7	Butyl benzyl phthalate	ND		1100	180
105-60-2	Caprolactam	ND		1100	320
86-74-8	Carbazole	ND		1100	130
218-01-9	Chrysene	ND		1100	240
84-74-2	Di-n-butyl phthalate	ND		1100	180
117-84-0	Di-n-octyl phthalate	ND		1100	130
53-70-3	Dibenz(a,h)anthracene	ND		1100	190
132-64-9	Dibenzofuran	ND		1100	130
84-66-2	Diethyl phthalate	ND		1100	140
131-11-3	Dimethyl phthalate	ND		1100	130
206-44-0	Fluoranthene	370	J	1100	110
86-73-7	Fluorene	ND		1100	130
118-74-1	Hexachlorobenzene	ND		1100	140
87-68-3	Hexachlorobutadiene	ND		1100	160
77-47-4	Hexachlorocyclopentadiene	ND		1100	140
67-72-1	Hexachloroethane	ND		1100	140
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1100	130
78-59-1	Isophorone	ND		1100	230
621-64-7	N-Nitrosodi-n-propylamine	ND		1100	180
86-30-6	N-Nitrosodiphenylamine	ND		1100	860
91-20-3	Naphthalene	ND		1100	140
98-95-3	Nitrobenzene	ND		1100	120
87-86-5	Pentachlorophenol	ND		2100	1100
85-01-8	Phenanthrene	280	J	1100	160
108-95-2	Phenol	ND		1100	160
129-00-0	Pyrene	310	J	1100	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-07 | Lab Sample ID: 480-121411-1

Matrix: Solid | Lab File ID: V304175.D

Analysis Method: 8270D | Date Collected: 07/20/2017 09:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.31(g) | Date Analyzed: 07/24/2017 17:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 20.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	97		54-120
321-60-8	2-Fluorobiphenyl	82		60-120
367-12-4	2-Fluorophenol	71		52-120
4165-60-0	Nitrobenzene-d5	70		53-120
1718-51-0	p-Terphenyl-d14	95		65-121
4165-62-2	Phenol-d5	74		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304175.D
Lims ID: 480-121411-A-1-B
Client ID: TP-07
Sample Type: Client
Inject. Date: 24-Jul-2017 17:12:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 480-0064281-011
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Jul-2017 11:11:26 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: quirkp Date: 25-Jul-2017 11:11:26

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.557	5.556	0.001	96	41913	40.0	
*	2 Naphthalene-d8	136	7.111	7.111	0.000	99	153065	40.0	
*	3 Acenaphthene-d10	164	9.173	9.173	0.000	97	75304	40.0	
*	4 Phenanthrene-d10	188	10.803	10.803	0.000	97	158072	40.0	
*	5 Chrysene-d12	240	13.185	13.191	-0.006	97	174488	40.0	
*	6 Perylene-d12	264	14.334	14.334	0.000	99	175430	40.0	
$	7 2-Fluorophenol	112	3.810	3.799	0.011	91	8248	5.71	
$	8 Phenol-d5	99	5.135	5.129	0.006	94	10911	5.88	
$	9 Nitrobenzene-d5	82	6.251	6.251	0.000	96	10584	5.56	
$	10 2-Fluorobiphenyl	172	8.404	8.404	0.000	98	20817	6.55	
$	11 2,4,6-Tribromophenol	330	10.081	10.081	0.000	87	3055	7.76	
$	12 p-Terphenyl-d14	244	12.293	12.298	-0.005	99	27281	7.56	
	80 Benzaldehyde	77		4.990				ND	
	81 Phenol	94		5.145				ND	
	83 Bis(2-chloroethyl)ether	93		5.241				ND	
	84 2-Chlorophenol	128		5.289				ND	
	92 2-Methylphenol	108		5.914				ND	
	93 2,2'-oxybis[1-chloropropan	45		5.936				ND	
	94 Acetophenone	105		6.075				ND	
	95 N-Nitrosodi-n-propylamine	70		6.091				ND	
	96 4-Methylphenol	108		6.112				ND	
	99 Hexachloroethane	117		6.182				ND	
	102 Nitrobenzene	77		6.278				ND	
	106 Isophorone	82		6.572				ND	
	107 2-Nitrophenol	139		6.668				ND	
	108 2,4-Dimethylphenol	107		6.753				ND	
	111 Bis(2-chloroethoxy)methane	93		6.860				ND	
	114 2,4-Dichlorophenol	162		6.961				ND	
	118 Naphthalene	128		7.138				ND	
	119 4-Chloroaniline	127		7.223				ND	
	121 Hexachlorobutadiene	225		7.309				ND	
	124 Caprolactam	113		7.635				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107		7.827				ND	
131 2-Methylnaphthalene	142		7.960				ND	
134 Hexachlorocyclopentadiene	237		8.164				ND	
137 2,4,6-Trichlorophenol	196		8.308				ND	
138 2,4,5-Trichlorophenol	196		8.350				ND	
140 1,1'-Biphenyl	154		8.516				ND	
141 2-Chloronaphthalene	162		8.527				ND	
143 2-Nitroaniline	65		8.660				ND	
146 Dimethyl phthalate	163		8.895				ND	
149 2,6-Dinitrotoluene	165		8.954				ND	
150 Acenaphthylene	152		9.008				ND	
151 3-Nitroaniline	138		9.141				ND	
152 Acenaphthene	153		9.211				ND	
153 2,4-Dinitrophenol	184		9.269				ND	
154 4-Nitrophenol	109		9.376				ND	
155 Dibenzofuran	168		9.414				ND	
156 2,4-Dinitrotoluene	165		9.419				ND	
161 Diethyl phthalate	149		9.723				ND	
162 Fluorene	166		9.809				ND	
163 4-Chlorophenyl phenyl ethe	204		9.825				ND	
164 4-Nitroaniline	138		9.852				ND	
165 4,6-Dinitro-2-methylphenol	198		9.894				ND	
168 N-Nitrosodiphenylamine	169		9.964				ND	
175 4-Bromophenyl phenyl ether	248		10.359				ND	
179 Hexachlorobenzene	284		10.423				ND	
180 Atrazine	200		10.557				ND	
183 Pentachlorophenol	266		10.632				ND	
188 Phenanthrene	178	10.824	10.829	-0.005	93	5646	1.35	
189 Anthracene	178		10.877				ND	
192 Carbazole	167		11.048				ND	
195 Di-n-butyl phthalate	149		11.406				ND	
201 Fluoranthene	202	11.946	11.951	-0.005	95	8436	1.78	
204 Pyrene	202	12.149	12.149	0.000	97	7742	1.51	
210 Butyl benzyl phthalate	149		12.726				ND	
215 3,3'-Dichlorobenzidine	252		13.164				ND	
217 Benzo[a]anthracene	228	13.175	13.180	-0.005	94	4570	0.9077	
216 Bis(2-ethylhexyl) phthalat	149		13.207				ND	
218 Chrysene	228	13.207	13.212	-0.005	91	4139	0.8634	
220 Di-n-octyl phthalate	149		13.725				ND	
221 Benzo[b]fluoranthene	252		14.045				ND	
222 Benzo[k]fluoranthene	252		14.067				ND	
225 Benzo[a]pyrene	252		14.291				ND	
227 Indeno[1,2,3-cd]pyrene	276		15.210				ND	
228 Dibenz(a,h)anthracene	278		15.215				ND	
229 Benzo[g,h,i]perylene	276		15.461				ND	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

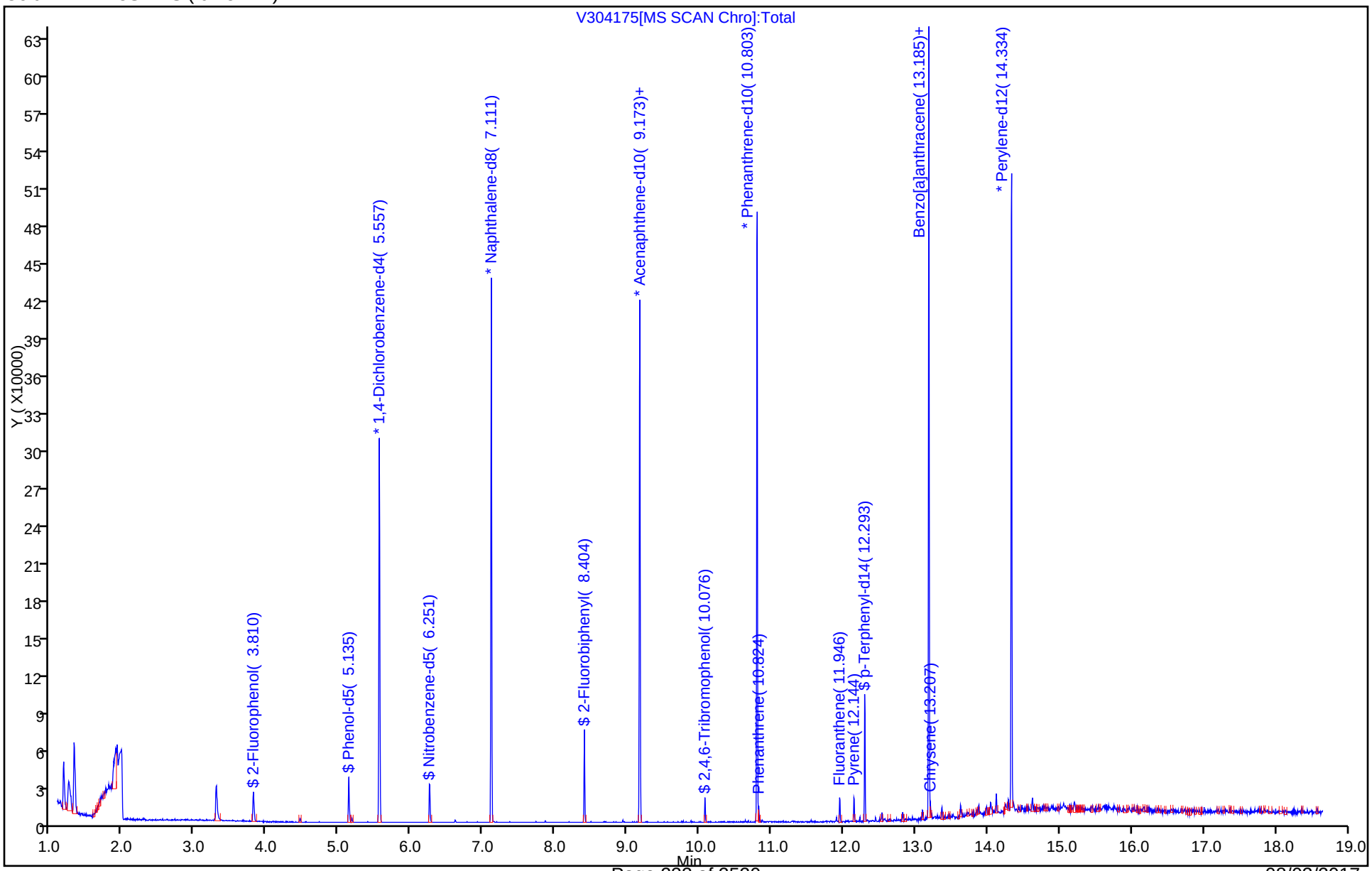
Report Date: 25-Jul-2017 11:11:27 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304175.D

Injection Date:	24-Jul-2017 17:12:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121411-A-1-B	Lab Sample ID:	480-121411-1	Worklist Smp#:	11
Client ID:	TP-07				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	11
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)

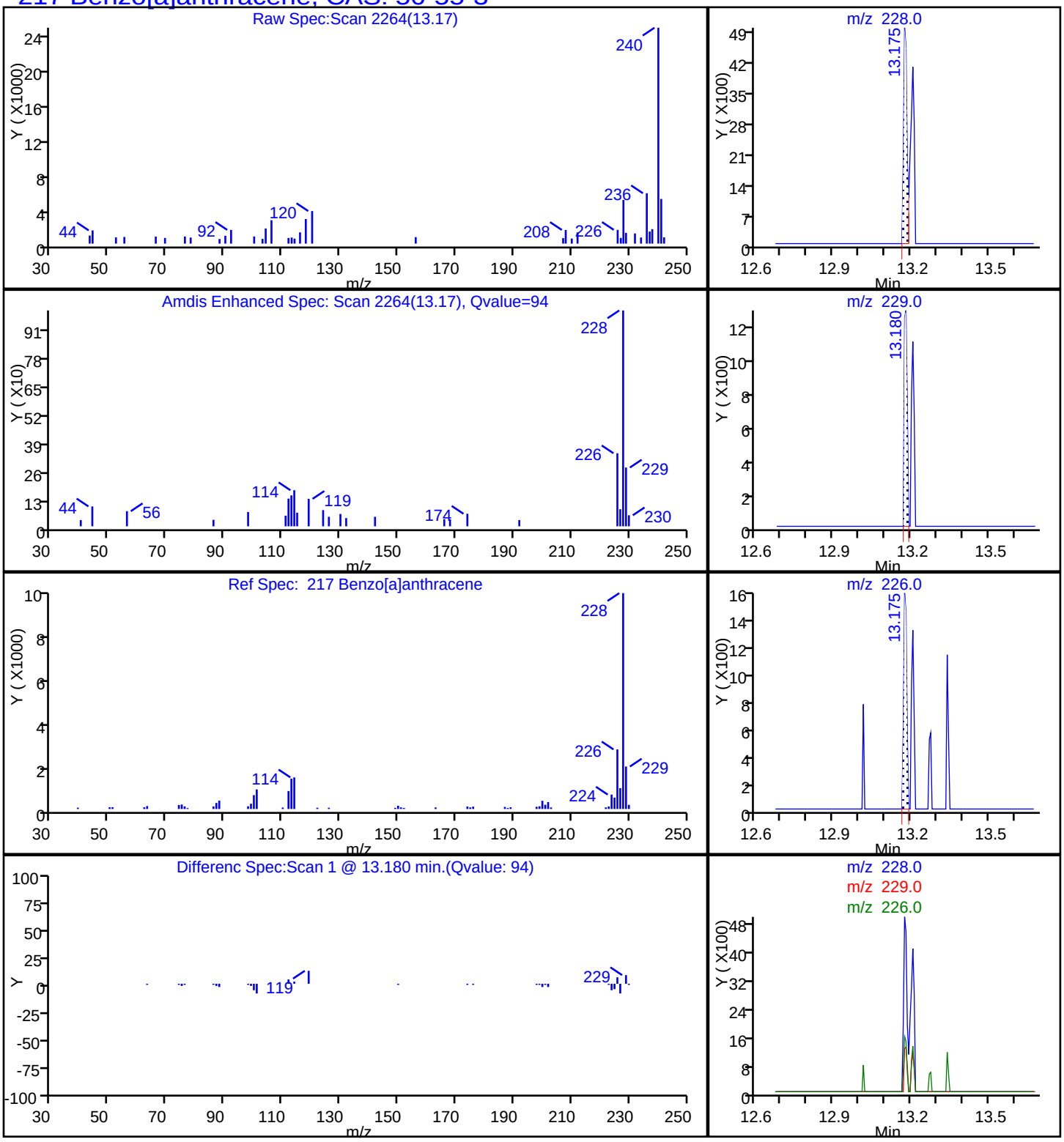


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304175.D

Injection Date:	24-Jul-2017 17:12:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-1-B	Lab Sample ID:	480-121411-1		
Client ID:	TP-07				
Operator ID:	PJQ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

217 Benzo[a]anthracene, CAS: 56-55-3

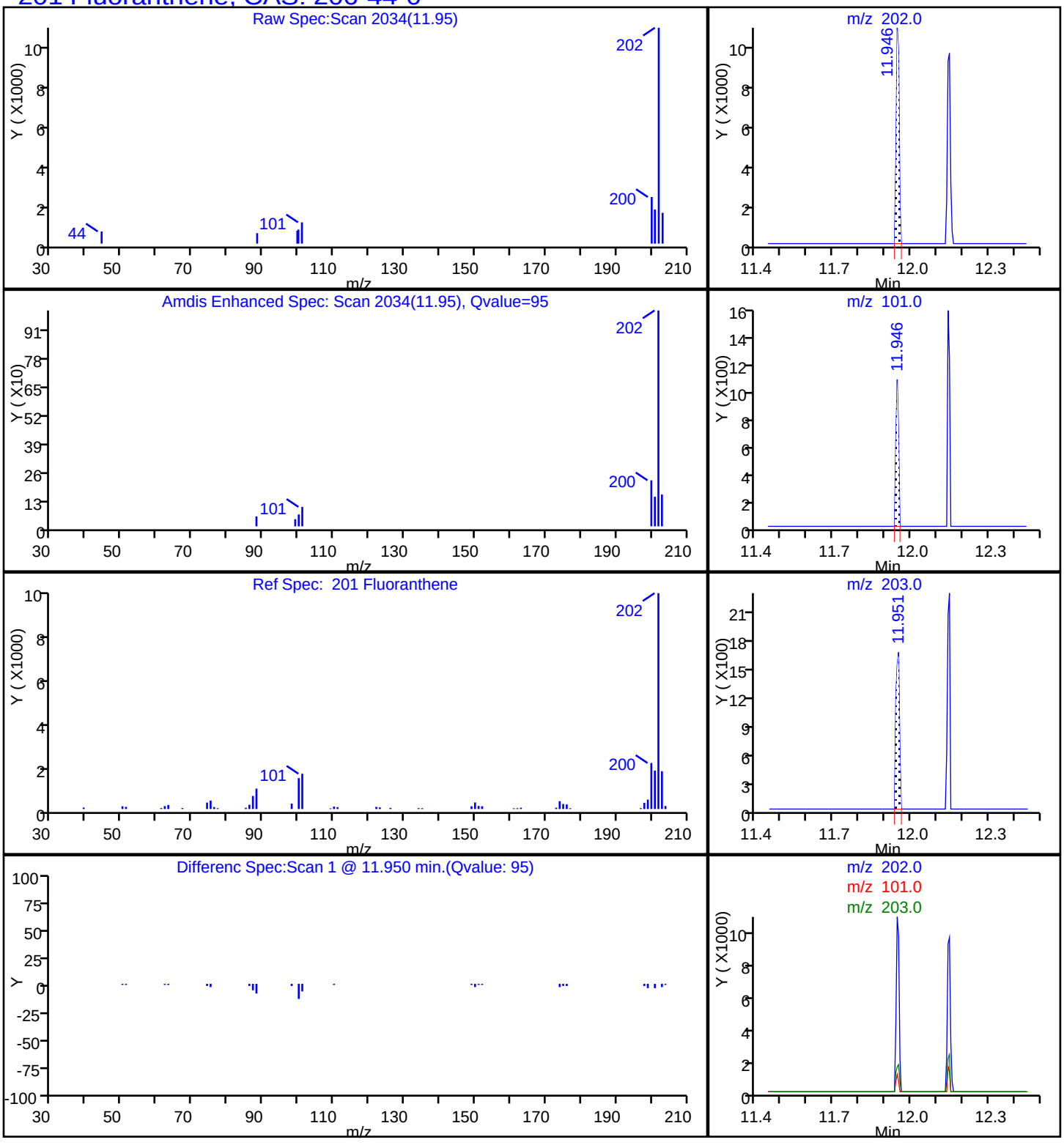


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304175.D

Injection Date:	24-Jul-2017 17:12:30	Instrument ID:	HP5973V
Lims ID:	480-121411-A-1-B	Lab Sample ID:	480-121411-1
Client ID:	TP-07		
Operator ID:	PJQ	ALS Bottle#:	11 Worklist Smp#: 11
Injection Vol:	1.0 ul	Dil. Factor:	5.0000
Method:	V-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

201 Fluoranthene, CAS: 206-44-0

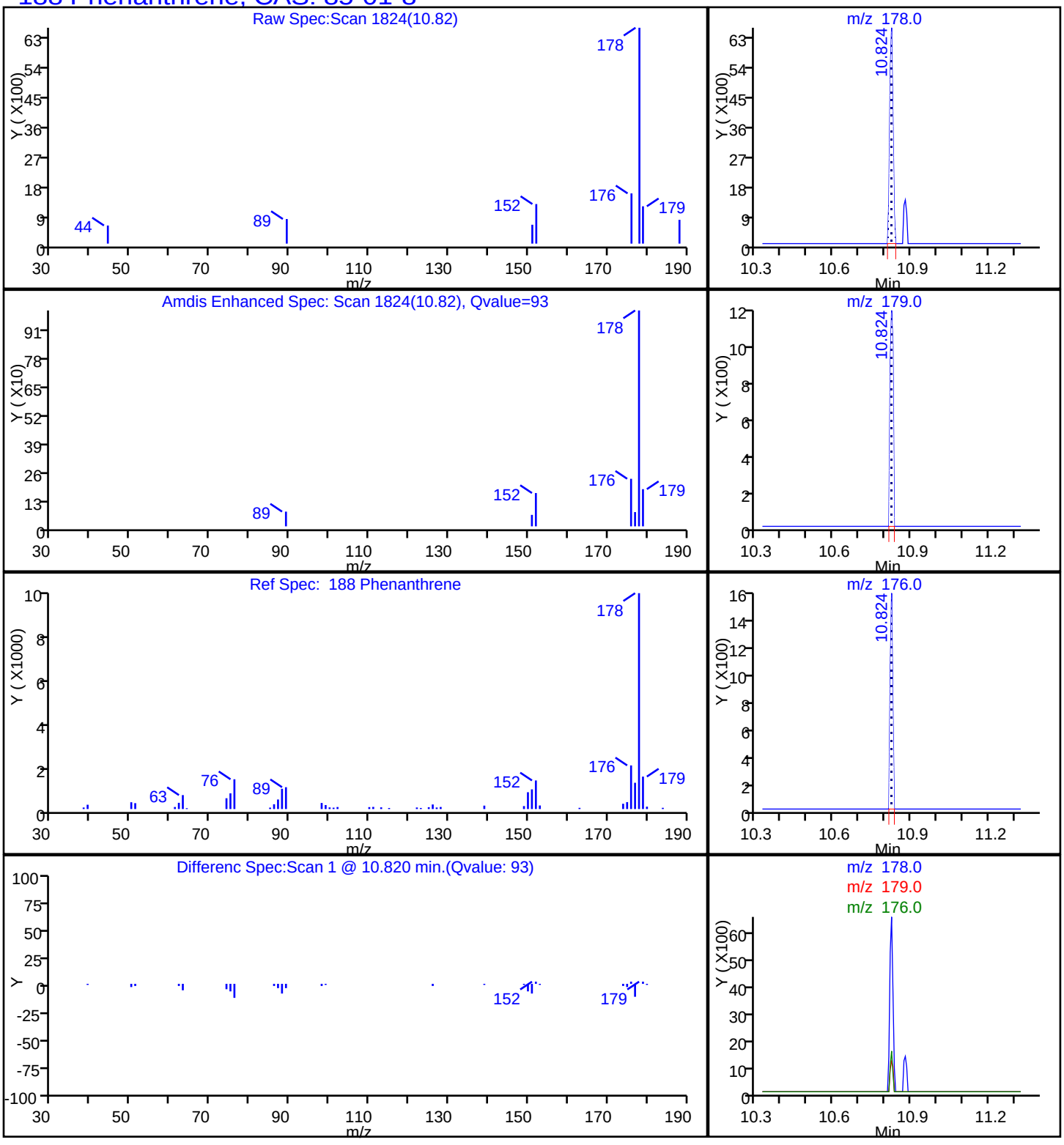


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304175.D

Injection Date:	24-Jul-2017 17:12:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-1-B	Lab Sample ID:	480-121411-1		
Client ID:	TP-07				
Operator ID:	PJQ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

188 Phenanthrene, CAS: 85-01-8

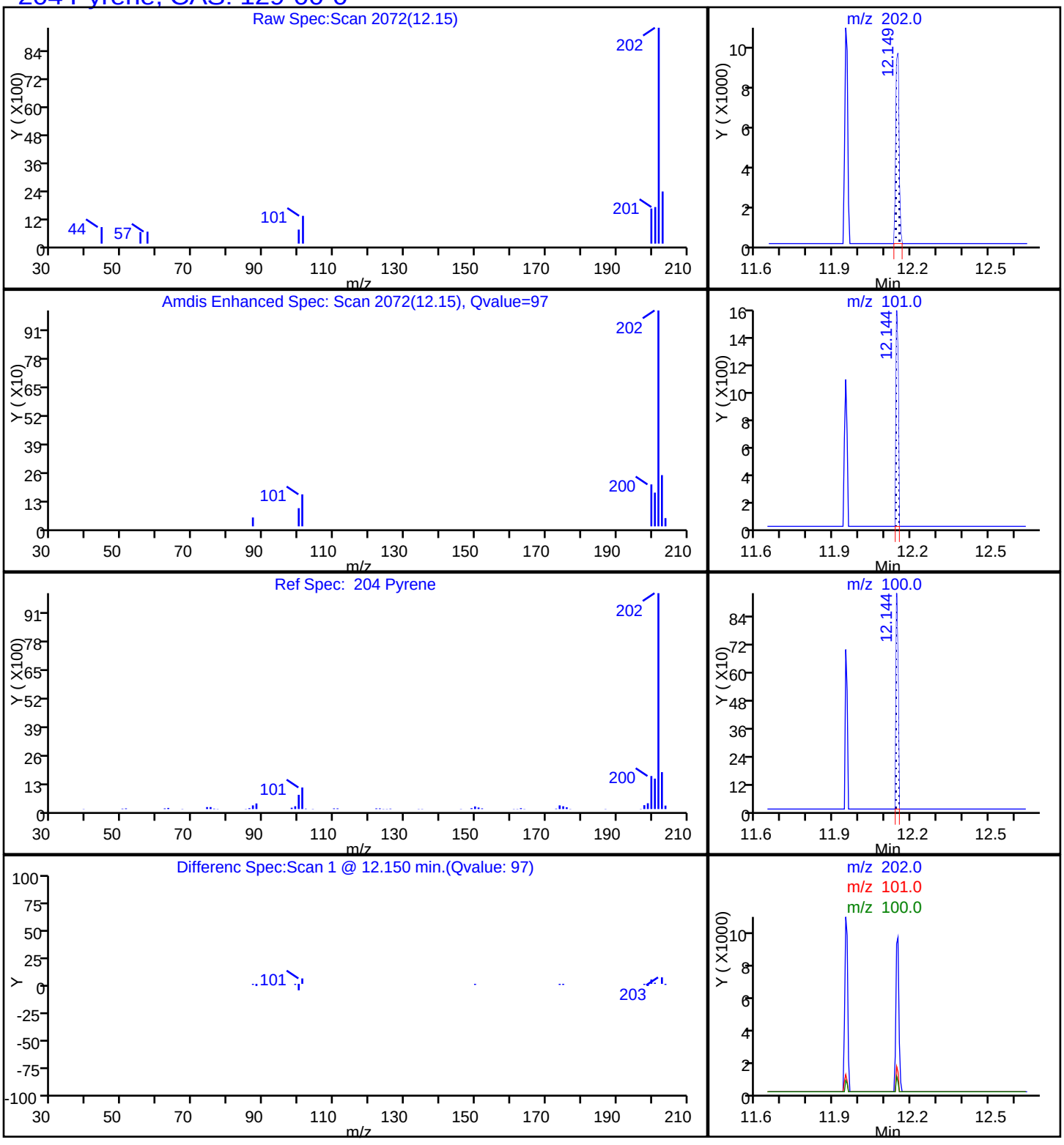


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304175.D

Injection Date:	24-Jul-2017 17:12:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-1-B	Lab Sample ID:	480-121411-1		
Client ID:	TP-07				
Operator ID:	PJQ	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

204 Pyrene, CAS: 129-00-0



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-09 | Lab Sample ID: 480-121411-2

Matrix: Solid | Lab File ID: V304176.D

Analysis Method: 8270D | Date Collected: 07/20/2017 10:30

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.76(g) | Date Analyzed: 07/24/2017 17:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		200	30
108-60-1	bis (2-chloroisopropyl) ether	ND		200	40
95-95-4	2,4,5-Trichlorophenol	ND		200	55
88-06-2	2,4,6-Trichlorophenol	ND		200	40
120-83-2	2,4-Dichlorophenol	ND		200	21
105-67-9	2,4-Dimethylphenol	ND		200	49
51-28-5	2,4-Dinitrophenol	ND		2000	930
121-14-2	2,4-Dinitrotoluene	ND		200	41
606-20-2	2,6-Dinitrotoluene	ND		200	24
91-58-7	2-Chloronaphthalene	ND		200	33
95-57-8	2-Chlorophenol	ND		200	37
91-57-6	2-Methylnaphthalene	ND		200	40
95-48-7	2-Methylphenol	ND		200	24
88-74-4	2-Nitroaniline	ND		390	30
88-75-5	2-Nitrophenol	ND		200	57
91-94-1	3,3'-Dichlorobenzidine	ND		390	240
99-09-2	3-Nitroaniline	ND		390	56
534-52-1	4,6-Dinitro-2-methylphenol	ND		390	200
101-55-3	4-Bromophenyl phenyl ether	ND		200	28
59-50-7	4-Chloro-3-methylphenol	ND		200	50
106-47-8	4-Chloroaniline	ND		200	50
7005-72-3	4-Chlorophenyl phenyl ether	ND		200	25
106-44-5	4-Methylphenol	ND		390	24
100-01-6	4-Nitroaniline	ND		390	110
100-02-7	4-Nitrophenol	ND		390	140
83-32-9	Acenaphthene	ND		200	30
208-96-8	Acenaphthylene	ND		200	26
98-86-2	Acetophenone	ND		200	27
120-12-7	Anthracene	ND		200	50
1912-24-9	Atrazine	ND		200	70
100-52-7	Benzaldehyde	ND		200	160
56-55-3	Benzo(a)anthracene	ND		200	20
50-32-8	Benzo(a)pyrene	ND		200	30
205-99-2	Benzo(b)fluoranthene	ND		200	32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-09 | Lab Sample ID: 480-121411-2

Matrix: Solid | Lab File ID: V304176.D

Analysis Method: 8270D | Date Collected: 07/20/2017 10:30

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.76(g) | Date Analyzed: 07/24/2017 17:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		200	21
207-08-9	Benzo(k)fluoranthene	ND		200	26
111-91-1	Bis(2-chloroethoxy)methane	ND		200	43
111-44-4	Bis(2-chloroethyl)ether	ND		200	26
117-81-7	Bis(2-ethylhexyl) phthalate	ND		200	69
85-68-7	Butyl benzyl phthalate	ND		200	33
105-60-2	Caprolactam	ND		200	60
86-74-8	Carbazole	ND		200	24
218-01-9	Chrysene	ND		200	45
84-74-2	Di-n-butyl phthalate	ND		200	34
117-84-0	Di-n-octyl phthalate	ND		200	24
53-70-3	Dibenz(a,h)anthracene	ND		200	36
132-64-9	Dibenzofuran	ND		200	24
84-66-2	Diethyl phthalate	ND		200	26
131-11-3	Dimethyl phthalate	ND		200	24
206-44-0	Fluoranthene	ND		200	21
86-73-7	Fluorene	ND		200	24
118-74-1	Hexachlorobenzene	ND		200	27
87-68-3	Hexachlorobutadiene	ND		200	30
77-47-4	Hexachlorocyclopentadiene	ND		200	27
67-72-1	Hexachloroethane	ND		200	26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		200	25
78-59-1	Isophorone	ND		200	43
621-64-7	N-Nitrosodi-n-propylamine	ND		200	34
86-30-6	N-Nitrosodiphenylamine	ND		200	160
91-20-3	Naphthalene	ND		200	26
98-95-3	Nitrobenzene	ND		200	23
87-86-5	Pentachlorophenol	ND		390	200
85-01-8	Phenanthrene	ND		200	30
108-95-2	Phenol	ND		200	31
129-00-0	Pyrene	ND		200	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-09 | Lab Sample ID: 480-121411-2

Matrix: Solid | Lab File ID: V304176.D

Analysis Method: 8270D | Date Collected: 07/20/2017 10:30

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.76(g) | Date Analyzed: 07/24/2017 17:38

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	93		54-120
321-60-8	2-Fluorobiphenyl	100		60-120
367-12-4	2-Fluorophenol	90		52-120
4165-60-0	Nitrobenzene-d5	99		53-120
1718-51-0	p-Terphenyl-d14	110		65-121
4165-62-2	Phenol-d5	96		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304176.D
Lims ID: 480-121411-A-2-B
Client ID: TP-09
Sample Type: Client
Inject. Date: 24-Jul-2017 17:38:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064281-012
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Jul-2017 11:12:25 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: quirkp Date: 25-Jul-2017 11:12:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.557	5.556	0.001	96	42261	40.0	
* 2 Naphthalene-d8	136	7.111	7.111	0.000	99	149723	40.0	
* 3 Acenaphthene-d10	164	9.173	9.173	0.000	98	73622	40.0	
* 4 Phenanthrene-d10	188	10.803	10.803	0.000	97	146588	40.0	
* 5 Chrysene-d12	240	13.185	13.191	-0.006	97	150645	40.0	
* 6 Perylene-d12	264	14.334	14.334	0.000	99	161187	40.0	
$ 7 2-Fluorophenol	112	3.799	3.799	0.000	93	52285	35.9	
$ 8 Phenol-d5	99	5.129	5.129	0.000	92	71790	38.4	
$ 9 Nitrobenzene-d5	82	6.251	6.251	0.000	96	74076	39.8	
$ 10 2-Fluorobiphenyl	172	8.404	8.404	0.000	99	124655	40.1	
$ 11 2,4,6-Tribromophenol	330	10.076	10.081	-0.005	90	16600	37.1	
$ 12 p-Terphenyl-d14	244	12.298	12.298	0.000	99	136894	43.9	
80 Benzaldehyde	77		4.990				ND	
81 Phenol	94		5.145				ND	
83 Bis(2-chloroethyl)ether	93		5.241				ND	
84 2-Chlorophenol	128		5.289				ND	
92 2-Methylphenol	108		5.914				ND	
93 2,2'-oxybis[1-chloropropan	45		5.936				ND	
94 Acetophenone	105		6.075				ND	
95 N-Nitrosodi-n-propylamine	70		6.091				ND	
96 4-Methylphenol	108		6.112				ND	
99 Hexachloroethane	117		6.182				ND	
102 Nitrobenzene	77		6.278				ND	
106 Isophorone	82		6.572				ND	
107 2-Nitrophenol	139		6.668				ND	
108 2,4-Dimethylphenol	107		6.753				ND	
111 Bis(2-chloroethoxy)methane	93		6.860				ND	
114 2,4-Dichlorophenol	162		6.961				ND	
118 Naphthalene	128		7.138				ND	
119 4-Chloroaniline	127		7.223				ND	
121 Hexachlorobutadiene	225		7.309				ND	
124 Caprolactam	113		7.635				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107		7.827				ND	
131 2-Methylnaphthalene	142		7.960				ND	
134 Hexachlorocyclopentadiene	237		8.164				ND	
137 2,4,6-Trichlorophenol	196		8.308				ND	
138 2,4,5-Trichlorophenol	196		8.350				ND	
140 1,1'-Biphenyl	154		8.516				ND	
141 2-Chloronaphthalene	162		8.527				ND	
143 2-Nitroaniline	65		8.660				ND	
146 Dimethyl phthalate	163		8.895				ND	
149 2,6-Dinitrotoluene	165		8.954				ND	
150 Acenaphthylene	152		9.008				ND	
151 3-Nitroaniline	138		9.141				ND	
152 Acenaphthene	153		9.211				ND	
153 2,4-Dinitrophenol	184		9.269				ND	
154 4-Nitrophenol	109		9.376				ND	
155 Dibenzofuran	168		9.414				ND	
156 2,4-Dinitrotoluene	165		9.419				ND	
161 Diethyl phthalate	149		9.723				ND	
162 Fluorene	166		9.809				ND	
163 4-Chlorophenyl phenyl ethe	204		9.825				ND	
164 4-Nitroaniline	138		9.852				ND	
165 4,6-Dinitro-2-methylphenol	198		9.894				ND	
168 N-Nitrosodiphenylamine	169		9.964				ND	
175 4-Bromophenyl phenyl ether	248		10.359				ND	
179 Hexachlorobenzene	284		10.423				ND	
180 Atrazine	200		10.557				ND	
183 Pentachlorophenol	266		10.632				ND	
188 Phenanthrene	178		10.829				ND	
189 Anthracene	178		10.877				ND	
192 Carbazole	167		11.048				ND	
195 Di-n-butyl phthalate	149		11.406				ND	
201 Fluoranthene	202		11.951				ND	
204 Pyrene	202		12.149				ND	
210 Butyl benzyl phthalate	149		12.726				ND	
215 3,3'-Dichlorobenzidine	252		13.164				ND	
217 Benzo[a]anthracene	228		13.180				ND	
216 Bis(2-ethylhexyl) phthalat	149		13.207				ND	
218 Chrysene	228		13.212				ND	
220 Di-n-octyl phthalate	149		13.725				ND	
221 Benzo[b]fluoranthene	252		14.045				ND	
222 Benzo[k]fluoranthene	252		14.067				ND	
225 Benzo[a]pyrene	252		14.291				ND	
227 Indeno[1,2,3-cd]pyrene	276		15.210				ND	
228 Dibenz(a,h)anthracene	278		15.215				ND	
229 Benzo[g,h,i]perylene	276		15.461				ND	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

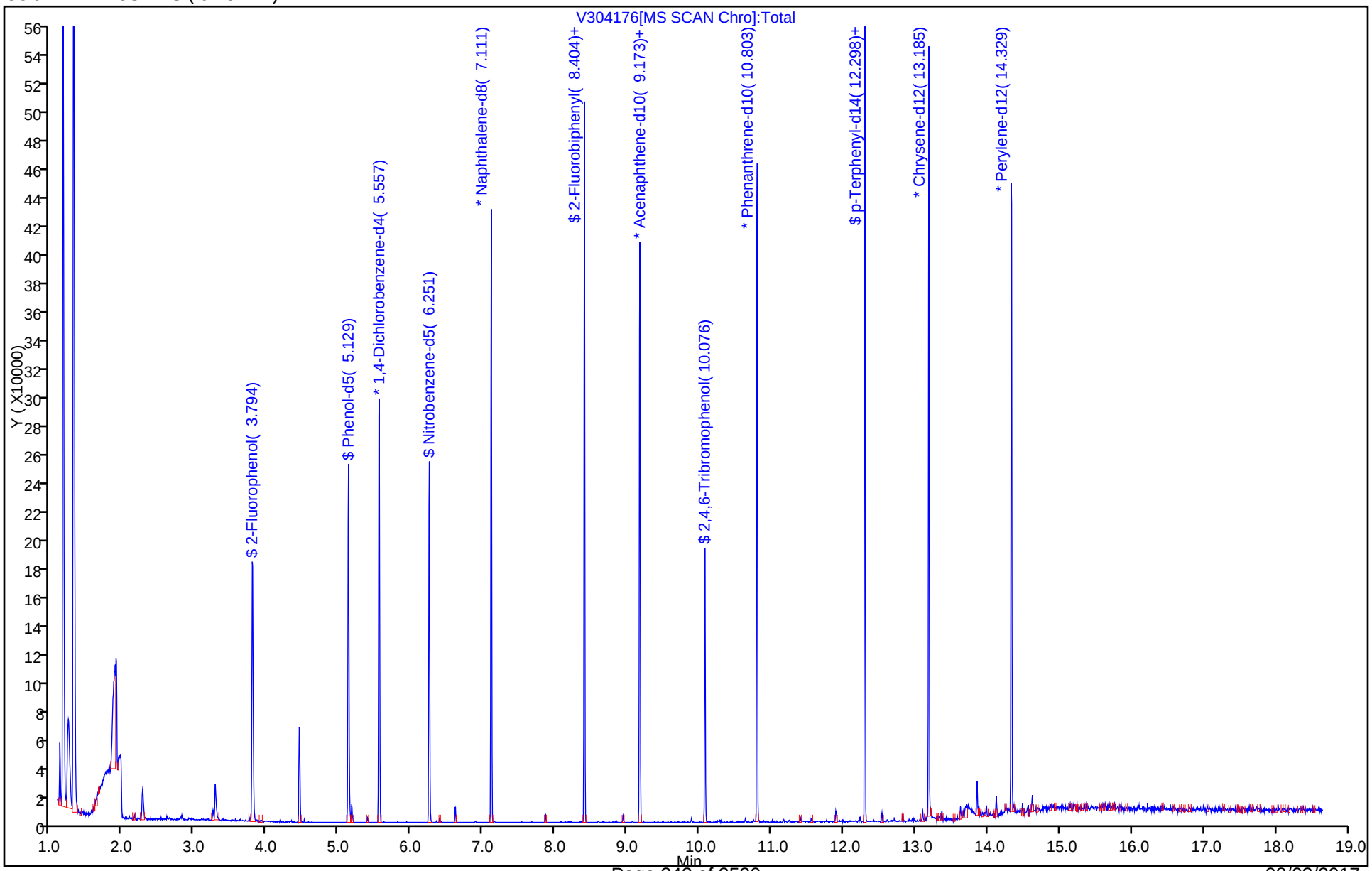
Report Date: 25-Jul-2017 11:12:26 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304176.D

Injection Date:	24-Jul-2017 17:38:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121411-A-2-B	Lab Sample ID:	480-121411-2	Worklist Smp#:	12
Client ID:	TP-09				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 | Lab Sample ID: 480-121411-3

Matrix: Solid | Lab File ID: V304173.D

Analysis Method: 8270D | Date Collected: 07/20/2017 15:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.16(g) | Date Analyzed: 07/24/2017 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1000	150
108-60-1	bis (2-chloroisopropyl) ether	ND		1000	200
95-95-4	2,4,5-Trichlorophenol	ND		1000	270
88-06-2	2,4,6-Trichlorophenol	ND		1000	200
120-83-2	2,4-Dichlorophenol	ND		1000	110
105-67-9	2,4-Dimethylphenol	ND		1000	240
51-28-5	2,4-Dinitrophenol	ND		9900	4700
121-14-2	2,4-Dinitrotoluene	ND		1000	210
606-20-2	2,6-Dinitrotoluene	ND		1000	120
91-58-7	2-Chloronaphthalene	ND		1000	170
95-57-8	2-Chlorophenol	ND		1000	180
91-57-6	2-Methylnaphthalene	ND		1000	200
95-48-7	2-Methylphenol	ND		1000	120
88-74-4	2-Nitroaniline	ND		2000	150
88-75-5	2-Nitrophenol	ND		1000	290
91-94-1	3,3'-Dichlorobenzidine	ND		2000	1200
99-09-2	3-Nitroaniline	ND		2000	280
534-52-1	4,6-Dinitro-2-methylphenol	ND		2000	1000
101-55-3	4-Bromophenyl phenyl ether	ND		1000	140
59-50-7	4-Chloro-3-methylphenol	ND		1000	250
106-47-8	4-Chloroaniline	ND		1000	250
7005-72-3	4-Chlorophenyl phenyl ether	ND		1000	130
106-44-5	4-Methylphenol	ND		2000	120
100-01-6	4-Nitroaniline	ND		2000	530
100-02-7	4-Nitrophenol	ND		2000	710
83-32-9	Acenaphthene	ND		1000	150
208-96-8	Acenaphthylene	ND		1000	130
98-86-2	Acetophenone	ND		1000	140
120-12-7	Anthracene	ND		1000	250
1912-24-9	Atrazine	ND		1000	350
100-52-7	Benzaldehyde	ND		1000	800
56-55-3	Benzo(a)anthracene	ND		1000	100
50-32-8	Benzo(a)pyrene	ND		1000	150
205-99-2	Benzo(b)fluoranthene	ND		1000	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 | Lab Sample ID: 480-121411-3

Matrix: Solid | Lab File ID: V304173.D

Analysis Method: 8270D | Date Collected: 07/20/2017 15:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.16(g) | Date Analyzed: 07/24/2017 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		1000	110
207-08-9	Benzo(k)fluoranthene	ND		1000	130
111-91-1	Bis(2-chloroethoxy)methane	ND		1000	210
111-44-4	Bis(2-chloroethyl)ether	ND		1000	130
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1000	350
85-68-7	Butyl benzyl phthalate	ND		1000	170
105-60-2	Caprolactam	ND		1000	300
86-74-8	Carbazole	ND		1000	120
218-01-9	Chrysene	ND		1000	230
84-74-2	Di-n-butyl phthalate	ND		1000	170
117-84-0	Di-n-octyl phthalate	ND		1000	120
53-70-3	Dibenz(a,h)anthracene	ND		1000	180
132-64-9	Dibenzofuran	ND		1000	120
84-66-2	Diethyl phthalate	ND		1000	130
131-11-3	Dimethyl phthalate	ND		1000	120
206-44-0	Fluoranthene	ND		1000	110
86-73-7	Fluorene	ND		1000	120
118-74-1	Hexachlorobenzene	ND		1000	140
87-68-3	Hexachlorobutadiene	ND		1000	150
77-47-4	Hexachlorocyclopentadiene	ND		1000	140
67-72-1	Hexachloroethane	ND		1000	130
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1000	130
78-59-1	Isophorone	ND		1000	210
621-64-7	N-Nitrosodi-n-propylamine	ND		1000	170
86-30-6	N-Nitrosodiphenylamine	ND		1000	820
91-20-3	Naphthalene	ND		1000	130
98-95-3	Nitrobenzene	ND		1000	110
87-86-5	Pentachlorophenol	ND		2000	1000
85-01-8	Phenanthrene	ND		1000	150
108-95-2	Phenol	ND		1000	150
129-00-0	Pyrene	ND		1000	120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 | Lab Sample ID: 480-121411-3

Matrix: Solid | Lab File ID: V304173.D

Analysis Method: 8270D | Date Collected: 07/20/2017 15:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.16(g) | Date Analyzed: 07/24/2017 16:20

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	84		54-120
321-60-8	2-Fluorobiphenyl	86		60-120
367-12-4	2-Fluorophenol	74		52-120
4165-60-0	Nitrobenzene-d5	78		53-120
1718-51-0	p-Terphenyl-d14	94		65-121
4165-62-2	Phenol-d5	75		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304173.D
Lims ID: 480-121411-A-3-F
Client ID: TP-15
Sample Type: Client
Inject. Date: 24-Jul-2017 16:20:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 480-0064281-009
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Jul-2017 11:07:55 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: quirkp Date: 25-Jul-2017 11:07:55

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.557	5.556	0.001	95	49228	40.0	
*	2 Naphthalene-d8	136	7.111	7.111	0.000	99	172926	40.0	
*	3 Acenaphthene-d10	164	9.173	9.173	0.000	98	87671	40.0	
*	4 Phenanthrene-d10	188	10.803	10.803	0.000	97	177408	40.0	
*	5 Chrysene-d12	240	13.185	13.191	-0.006	97	191821	40.0	
*	6 Perylene-d12	264	14.334	14.334	0.000	99	193427	40.0	
$	7 2-Fluorophenol	112	3.799	3.799	0.000	93	10033	5.91	
$	8 Phenol-d5	99	5.129	5.129	0.000	91	12980	5.96	
$	9 Nitrobenzene-d5	82	6.251	6.251	0.000	94	13336	6.20	
$	10 2-Fluorobiphenyl	172	8.404	8.404	0.000	99	25443	6.88	
$	11 2,4,6-Tribromophenol	330	10.076	10.081	-0.005	87	2848	6.73	
$	12 p-Terphenyl-d14	244	12.299	12.298	0.000	81	29955	7.55	
	80 Benzaldehyde	77		4.990				ND	
	81 Phenol	94		5.145				ND	
	83 Bis(2-chloroethyl)ether	93		5.241				ND	
	84 2-Chlorophenol	128		5.289				ND	
	92 2-Methylphenol	108		5.914				ND	
	93 2,2'-oxybis[1-chloropropan	45		5.936				ND	
	94 Acetophenone	105		6.075				ND	
	95 N-Nitrosodi-n-propylamine	70		6.091				ND	
	96 4-Methylphenol	108		6.112				ND	
	99 Hexachloroethane	117		6.182				ND	
	102 Nitrobenzene	77		6.278				ND	
	106 Isophorone	82		6.572				ND	
	107 2-Nitrophenol	139		6.668				ND	
	108 2,4-Dimethylphenol	107		6.753				ND	
	111 Bis(2-chloroethoxy)methane	93		6.860				ND	
	114 2,4-Dichlorophenol	162		6.961				ND	
	118 Naphthalene	128		7.138				ND	
	119 4-Chloroaniline	127		7.223				ND	
	121 Hexachlorobutadiene	225		7.309				ND	
	124 Caprolactam	113		7.635				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107		7.827				ND	
131 2-Methylnaphthalene	142		7.960				ND	
134 Hexachlorocyclopentadiene	237		8.164				ND	
137 2,4,6-Trichlorophenol	196		8.308				ND	
138 2,4,5-Trichlorophenol	196		8.350				ND	
140 1,1'-Biphenyl	154		8.516				ND	
141 2-Chloronaphthalene	162		8.527				ND	
143 2-Nitroaniline	65		8.660				ND	
146 Dimethyl phthalate	163		8.895				ND	
149 2,6-Dinitrotoluene	165		8.954				ND	
150 Acenaphthylene	152		9.008				ND	
151 3-Nitroaniline	138		9.141				ND	
152 Acenaphthene	153		9.211				ND	
153 2,4-Dinitrophenol	184		9.269				ND	
154 4-Nitrophenol	109		9.376				ND	
155 Dibenzofuran	168		9.414				ND	
156 2,4-Dinitrotoluene	165		9.419				ND	
161 Diethyl phthalate	149		9.723				ND	
162 Fluorene	166		9.809				ND	
163 4-Chlorophenyl phenyl ethe	204		9.825				ND	
164 4-Nitroaniline	138		9.852				ND	
165 4,6-Dinitro-2-methylphenol	198		9.894				ND	
168 N-Nitrosodiphenylamine	169		9.964				ND	
175 4-Bromophenyl phenyl ether	248		10.359				ND	
179 Hexachlorobenzene	284		10.423				ND	
180 Atrazine	200		10.557				ND	
183 Pentachlorophenol	266		10.632				ND	
188 Phenanthrene	178		10.829				ND	
189 Anthracene	178		10.877				ND	
192 Carbazole	167		11.048				ND	
195 Di-n-butyl phthalate	149		11.406				ND	
201 Fluoranthene	202		11.951				ND	
204 Pyrene	202		12.149				ND	
210 Butyl benzyl phthalate	149		12.726				ND	
215 3,3'-Dichlorobenzidine	252		13.164				ND	
217 Benzo[a]anthracene	228		13.180				ND	
216 Bis(2-ethylhexyl) phthalat	149		13.207				ND	
218 Chrysene	228		13.212				ND	
220 Di-n-octyl phthalate	149		13.725				ND	
221 Benzo[b]fluoranthene	252		14.045				ND	
222 Benzo[k]fluoranthene	252		14.067				ND	
225 Benzo[a]pyrene	252		14.291				ND	
227 Indeno[1,2,3-cd]pyrene	276		15.210				ND	
228 Dibenz(a,h)anthracene	278		15.215				ND	
229 Benzo[g,h,i]perylene	276		15.461				ND	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

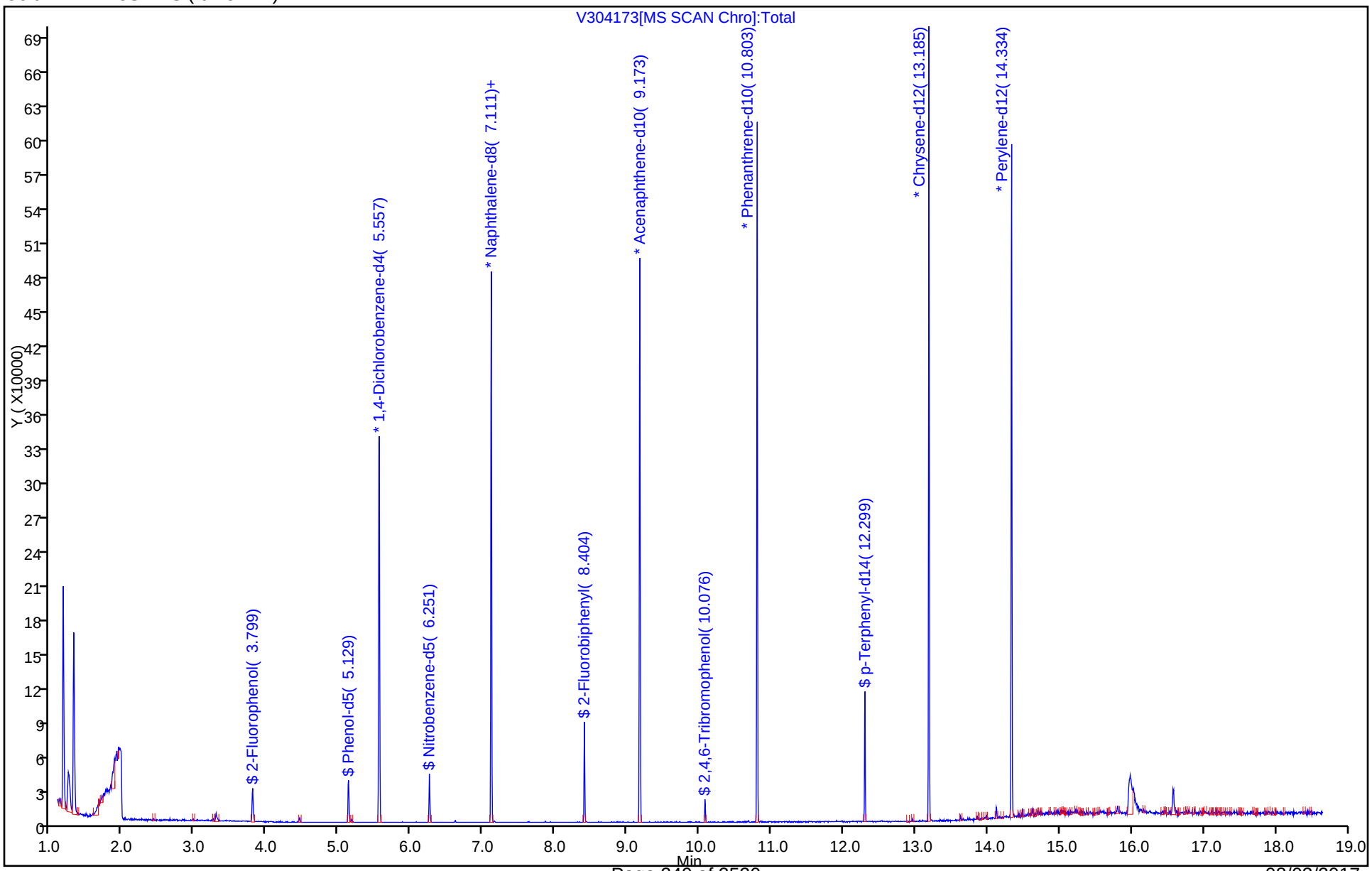
Report Date: 25-Jul-2017 11:07:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304173.D

Injection Date:	24-Jul-2017 16:20:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121411-A-3-F	Lab Sample ID:	480-121411-3	Worklist Smp#:	9
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	9
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121411-4

Matrix: Solid | Lab File ID: V304177.D

Analysis Method: 8270D | Date Collected: 07/20/2017 00:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.40(g) | Date Analyzed: 07/24/2017 18:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1100	160
108-60-1	bis (2-chloroisopropyl) ether	ND		1100	210
95-95-4	2,4,5-Trichlorophenol	ND		1100	290
88-06-2	2,4,6-Trichlorophenol	ND		1100	210
120-83-2	2,4-Dichlorophenol	ND		1100	110
105-67-9	2,4-Dimethylphenol	ND		1100	260
51-28-5	2,4-Dinitrophenol	ND		10000	4900
121-14-2	2,4-Dinitrotoluene	ND		1100	220
606-20-2	2,6-Dinitrotoluene	ND		1100	130
91-58-7	2-Chloronaphthalene	ND		1100	180
95-57-8	2-Chlorophenol	ND		1100	190
91-57-6	2-Methylnaphthalene	ND		1100	210
95-48-7	2-Methylphenol	ND		1100	130
88-74-4	2-Nitroaniline	ND		2100	160
88-75-5	2-Nitrophenol	ND		1100	300
91-94-1	3,3'-Dichlorobenzidine	ND		2100	1300
99-09-2	3-Nitroaniline	ND		2100	290
534-52-1	4,6-Dinitro-2-methylphenol	ND		2100	1100
101-55-3	4-Bromophenyl phenyl ether	ND		1100	150
59-50-7	4-Chloro-3-methylphenol	ND		1100	260
106-47-8	4-Chloroaniline	ND		1100	260
7005-72-3	4-Chlorophenyl phenyl ether	ND		1100	130
106-44-5	4-Methylphenol	ND		2100	130
100-01-6	4-Nitroaniline	ND		2100	560
100-02-7	4-Nitrophenol	ND		2100	750
83-32-9	Acenaphthene	ND		1100	160
208-96-8	Acenaphthylene	ND		1100	140
98-86-2	Acetophenone	ND		1100	140
120-12-7	Anthracene	ND		1100	260
1912-24-9	Atrazine	ND		1100	370
100-52-7	Benzaldehyde	ND		1100	850
56-55-3	Benzo(a)anthracene	810	J	1100	110
50-32-8	Benzo(a)pyrene	630	J	1100	160
205-99-2	Benzo(b)fluoranthene	750	J	1100	170

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121411-4

Matrix: Solid | Lab File ID: V304177.D

Analysis Method: 8270D | Date Collected: 07/20/2017 00:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.40(g) | Date Analyzed: 07/24/2017 18:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	380	J	1100	110
207-08-9	Benzo(k)fluoranthene	530	J	1100	140
111-91-1	Bis(2-chloroethoxy)methane	ND		1100	230
111-44-4	Bis(2-chloroethyl)ether	ND		1100	140
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1100	360
85-68-7	Butyl benzyl phthalate	ND		1100	180
105-60-2	Caprolactam	ND		1100	320
86-74-8	Carbazole	ND		1100	130
218-01-9	Chrysene	890	J	1100	240
84-74-2	Di-n-butyl phthalate	ND		1100	180
117-84-0	Di-n-octyl phthalate	ND		1100	130
53-70-3	Dibenz(a,h)anthracene	ND		1100	190
132-64-9	Dibenzofuran	ND		1100	130
84-66-2	Diethyl phthalate	ND		1100	140
131-11-3	Dimethyl phthalate	ND		1100	130
206-44-0	Fluoranthene	1400		1100	110
86-73-7	Fluorene	ND		1100	130
118-74-1	Hexachlorobenzene	ND		1100	140
87-68-3	Hexachlorobutadiene	ND		1100	160
77-47-4	Hexachlorocyclopentadiene	ND		1100	140
67-72-1	Hexachloroethane	ND		1100	140
193-39-5	Indeno(1,2,3-cd)pyrene	400	J	1100	130
78-59-1	Isophorone	ND		1100	230
621-64-7	N-Nitrosodi-n-propylamine	ND		1100	180
86-30-6	N-Nitrosodiphenylamine	ND		1100	870
91-20-3	Naphthalene	ND		1100	140
98-95-3	Nitrobenzene	ND		1100	120
87-86-5	Pentachlorophenol	ND		2100	1100
85-01-8	Phenanthrene	730	J	1100	160
108-95-2	Phenol	ND		1100	160
129-00-0	Pyrene	1300		1100	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121411-4

Matrix: Solid | Lab File ID: V304177.D

Analysis Method: 8270D | Date Collected: 07/20/2017 00:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.40(g) | Date Analyzed: 07/24/2017 18:04

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	99		54-120
321-60-8	2-Fluorobiphenyl	92		60-120
367-12-4	2-Fluorophenol	72		52-120
4165-60-0	Nitrobenzene-d5	84		53-120
1718-51-0	p-Terphenyl-d14	95		65-121
4165-62-2	Phenol-d5	76		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304177.D
Lims ID: 480-121411-A-4-B
Client ID: DUP
Sample Type: Client
Inject. Date: 24-Jul-2017 18:04:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 480-0064281-013
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Jul-2017 11:15:12 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: quirkp Date: 25-Jul-2017 11:15:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.557	5.556	0.001	95	47111	40.0	
* 2 Naphthalene-d8	136	7.111	7.111	0.000	99	161470	40.0	
* 3 Acenaphthene-d10	164	9.173	9.173	0.000	97	80777	40.0	
* 4 Phenanthrene-d10	188	10.803	10.803	0.000	97	166076	40.0	
* 5 Chrysene-d12	240	13.185	13.191	-0.006	96	174430	40.0	
* 6 Perylene-d12	264	14.334	14.334	0.000	100	176880	40.0	
$ 7 2-Fluorophenol	112	3.799	3.799	0.000	91	9344	5.76	
$ 8 Phenol-d5	99	5.129	5.129	0.000	92	12721	6.10	
$ 9 Nitrobenzene-d5	82	6.251	6.251	0.000	96	13453	6.70	
$ 10 2-Fluorobiphenyl	172	8.404	8.404	0.000	99	25181	7.39	
$ 11 2,4,6-Tribromophenol	330	10.076	10.081	-0.005	89	3294	7.92	
$ 12 p-Terphenyl-d14	244	12.298	12.298	0.000	98	27503	7.62	
80 Benzaldehyde	77		4.990				ND	
81 Phenol	94		5.145				ND	
83 Bis(2-chloroethyl)ether	93		5.241				ND	
84 2-Chlorophenol	128		5.289				ND	
92 2-Methylphenol	108		5.914				ND	
93 2,2'-oxybis[1-chloropropan	45		5.936				ND	
94 Acetophenone	105		6.075				ND	
95 N-Nitrosodi-n-propylamine	70		6.091				ND	
96 4-Methylphenol	108		6.112				ND	
99 Hexachloroethane	117		6.182				ND	
102 Nitrobenzene	77		6.278				ND	
106 Isophorone	82		6.572				ND	
107 2-Nitrophenol	139		6.668				ND	
108 2,4-Dimethylphenol	107		6.753				ND	
111 Bis(2-chloroethoxy)methane	93		6.860				ND	
114 2,4-Dichlorophenol	162		6.961				ND	
118 Naphthalene	128		7.138				ND	
119 4-Chloroaniline	127		7.223				ND	
121 Hexachlorobutadiene	225		7.309				ND	
124 Caprolactam	113		7.635				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107		7.827				ND	
131 2-Methylnaphthalene	142		7.960				ND	
134 Hexachlorocyclopentadiene	237		8.164				ND	
137 2,4,6-Trichlorophenol	196		8.308				ND	
138 2,4,5-Trichlorophenol	196		8.350				ND	
140 1,1'-Biphenyl	154		8.516				ND	
141 2-Chloronaphthalene	162		8.527				ND	
143 2-Nitroaniline	65		8.660				ND	
146 Dimethyl phthalate	163		8.895				ND	
149 2,6-Dinitrotoluene	165		8.954				ND	
150 Acenaphthylene	152		9.008				ND	
151 3-Nitroaniline	138		9.141				ND	
152 Acenaphthene	153		9.211				ND	
153 2,4-Dinitrophenol	184		9.269				ND	
154 4-Nitrophenol	109		9.376				ND	
155 Dibenzofuran	168		9.414				ND	
156 2,4-Dinitrotoluene	165		9.419				ND	
161 Diethyl phthalate	149		9.723				ND	
162 Fluorene	166		9.809				ND	
163 4-Chlorophenyl phenyl ethe	204		9.825				ND	
164 4-Nitroaniline	138		9.852				ND	
165 4,6-Dinitro-2-methylphenol	198		9.894				ND	
168 N-Nitrosodiphenylamine	169		9.964				ND	
175 4-Bromophenyl phenyl ether	248		10.359				ND	
179 Hexachlorobenzene	284		10.423				ND	
180 Atrazine	200		10.557				ND	
183 Pentachlorophenol	266		10.632				ND	
188 Phenanthrene	178	10.824	10.829	-0.005	97	15428	3.50	
189 Anthracene	178		10.877				ND	
192 Carbazole	167		11.048				ND	
195 Di-n-butyl phthalate	149		11.406				ND	
201 Fluoranthene	202	11.946	11.951	-0.005	97	34288	6.87	
204 Pyrene	202	12.149	12.149	0.000	97	30833	6.01	
210 Butyl benzyl phthalate	149		12.726				ND	
215 3,3'-Dichlorobenzidine	252		13.164				ND	
217 Benzo[a]anthracene	228	13.175	13.180	-0.005	97	19514	3.88	
216 Bis(2-ethylhexyl) phthalat	149		13.207				ND	
218 Chrysene	228	13.207	13.212	-0.005	94	20367	4.25	
220 Di-n-octyl phthalate	149		13.725				ND	
221 Benzo[b]fluoranthene	252	14.040	14.045	-0.005	96	18362	3.58	M
222 Benzo[k]fluoranthene	252	14.051	14.067	-0.016	98	12642	2.54	M
225 Benzo[a]pyrene	252	14.286	14.291	-0.005	76	14035	3.01	
227 Indeno[1,2,3-cd]pyrene	276	15.205	15.210	-0.005	95	10506	1.90	
228 Dibenz(a,h)anthracene	278		15.215				ND	
229 Benzo[g,h,i]perylene	276	15.450	15.461	-0.011	97	8619	1.81	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

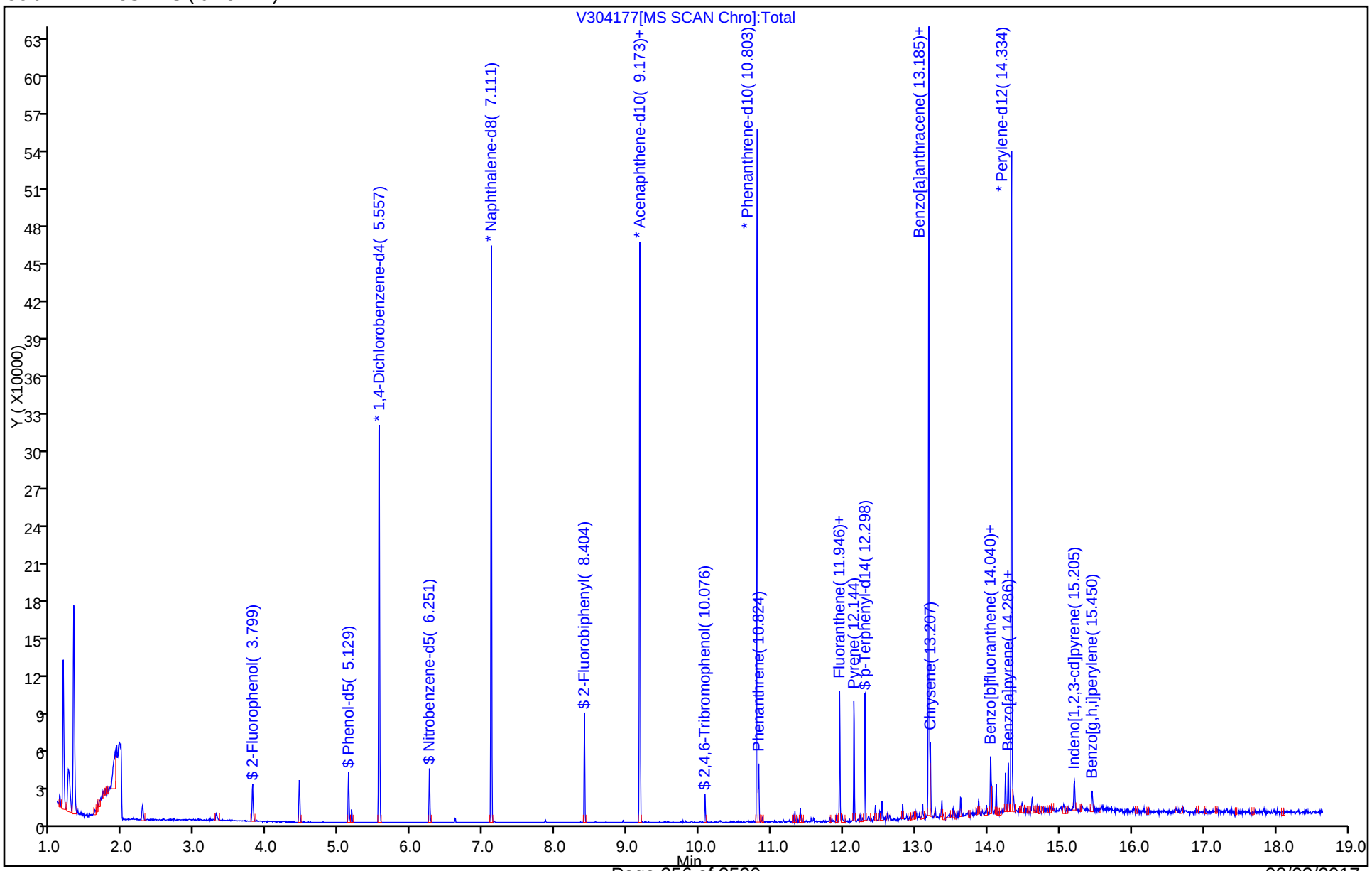
Report Date: 25-Jul-2017 11:15:12 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304177.D

Injection Date:	24-Jul-2017 18:04:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4	Worklist Smp#:	13
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	13
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

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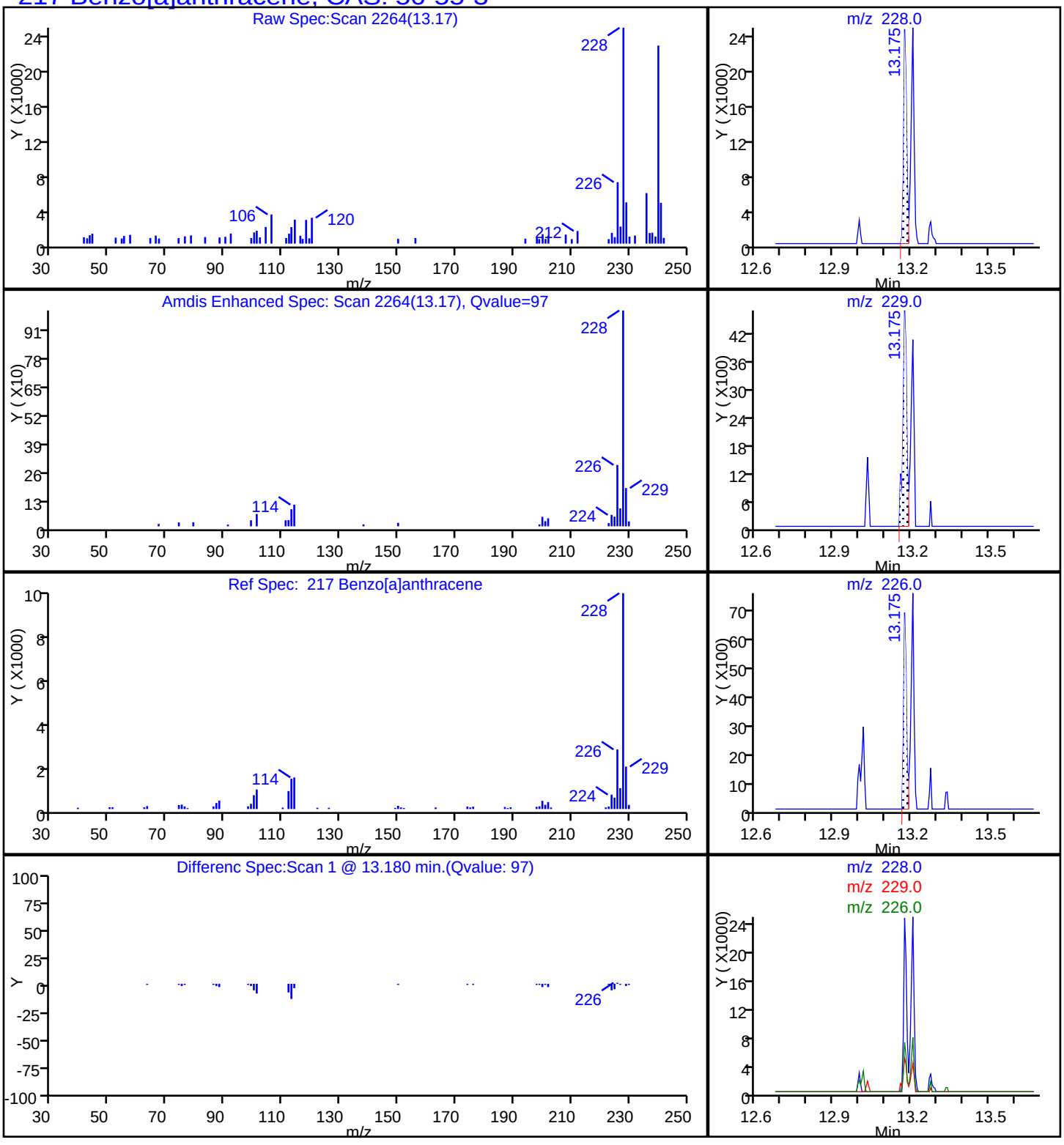
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

217 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Buffalo

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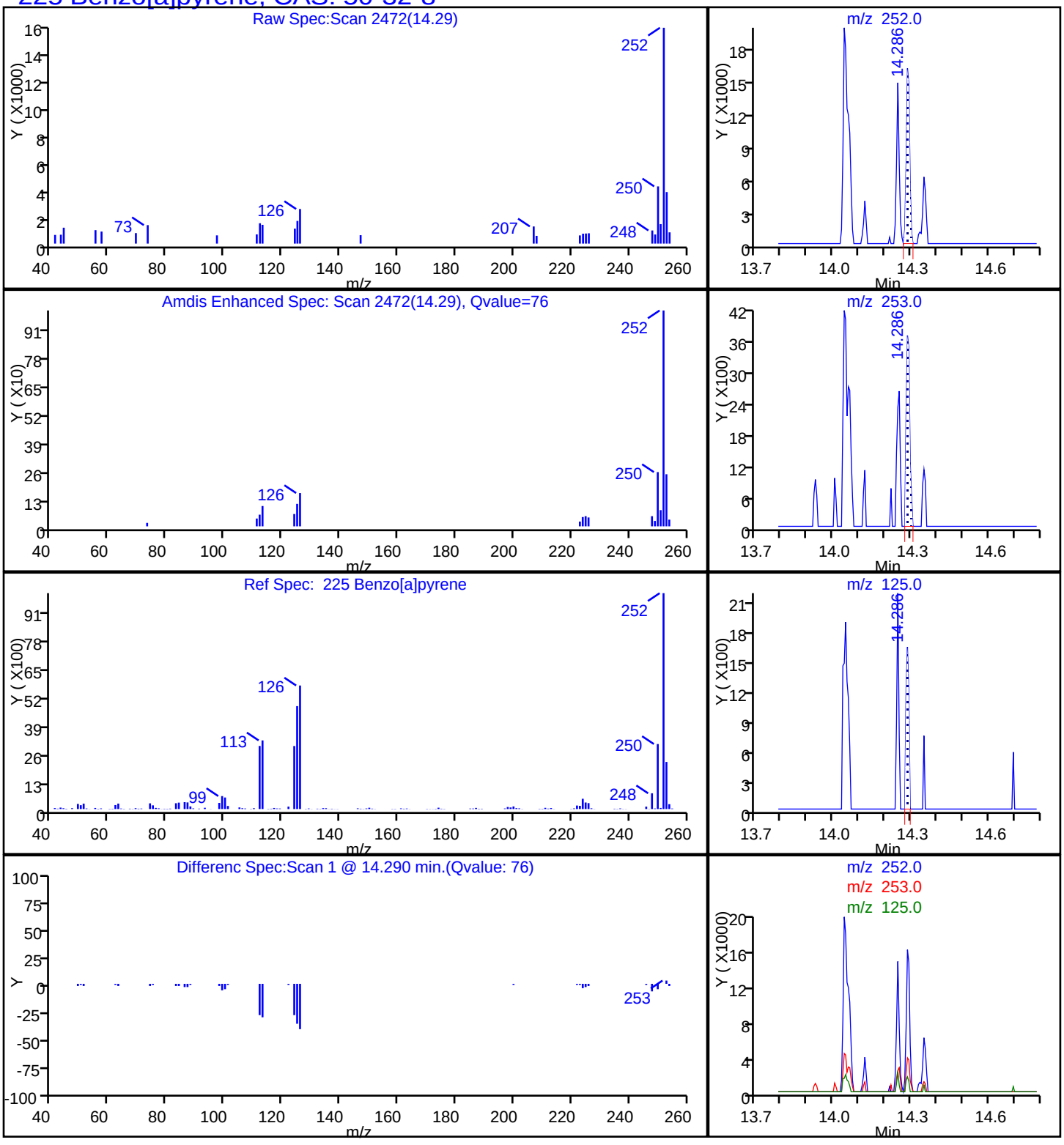
Injection Date:	24-Jul-2017 18:04:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

225 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Buffalo

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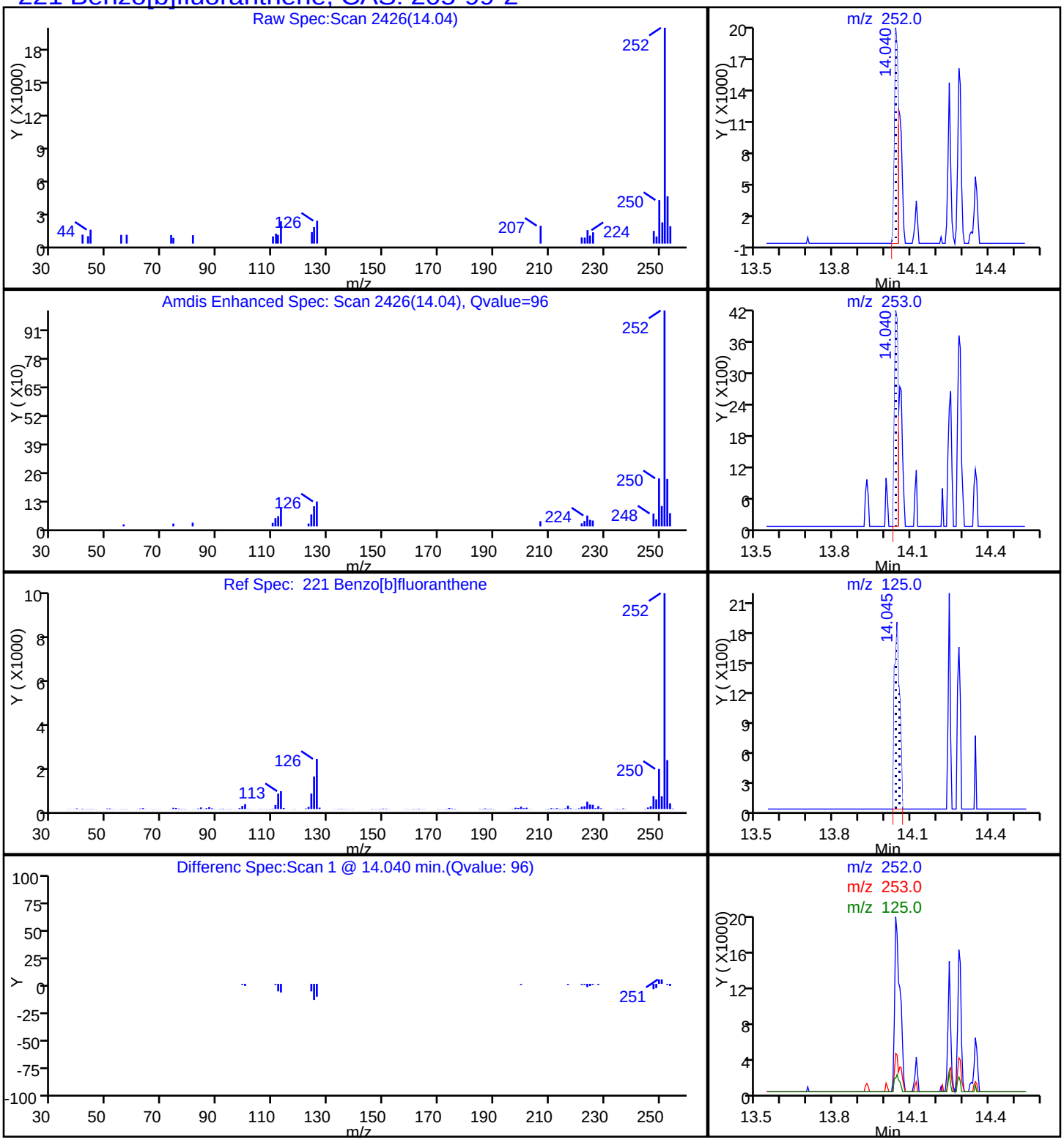
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

221 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

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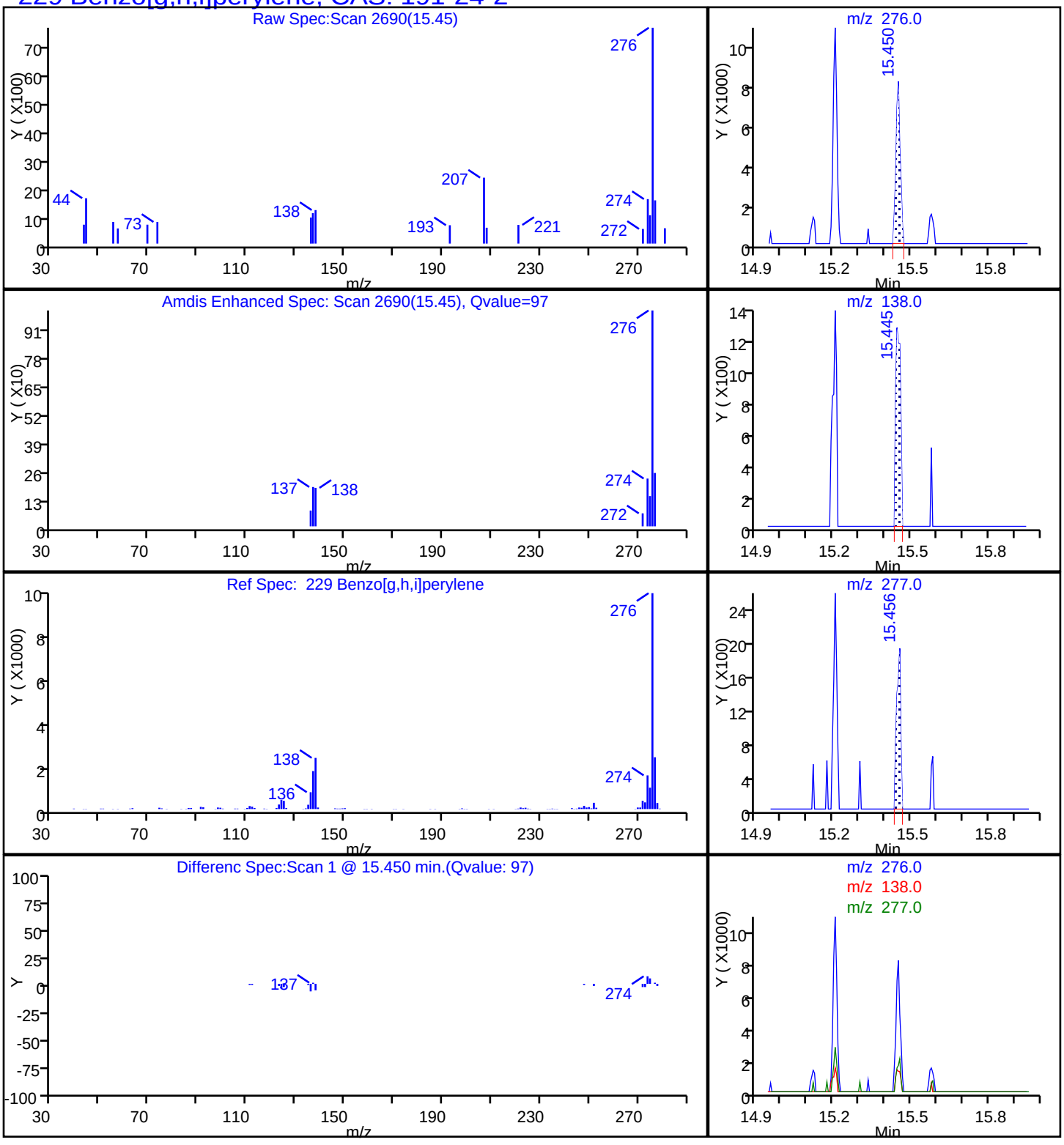
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

229 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Buffalo

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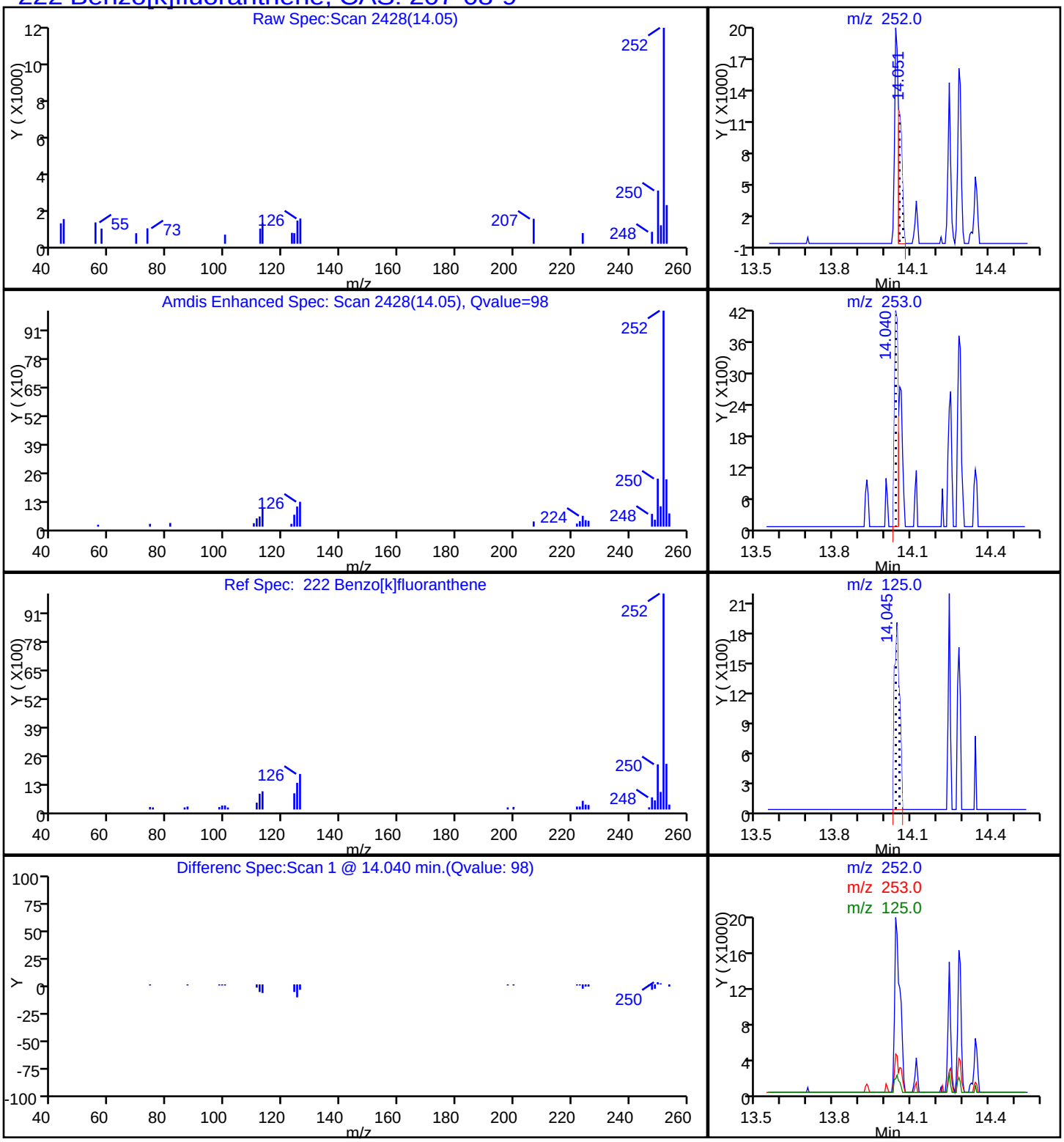
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

222 Benzo[k]fluoranthene, CAS: 207-08-9

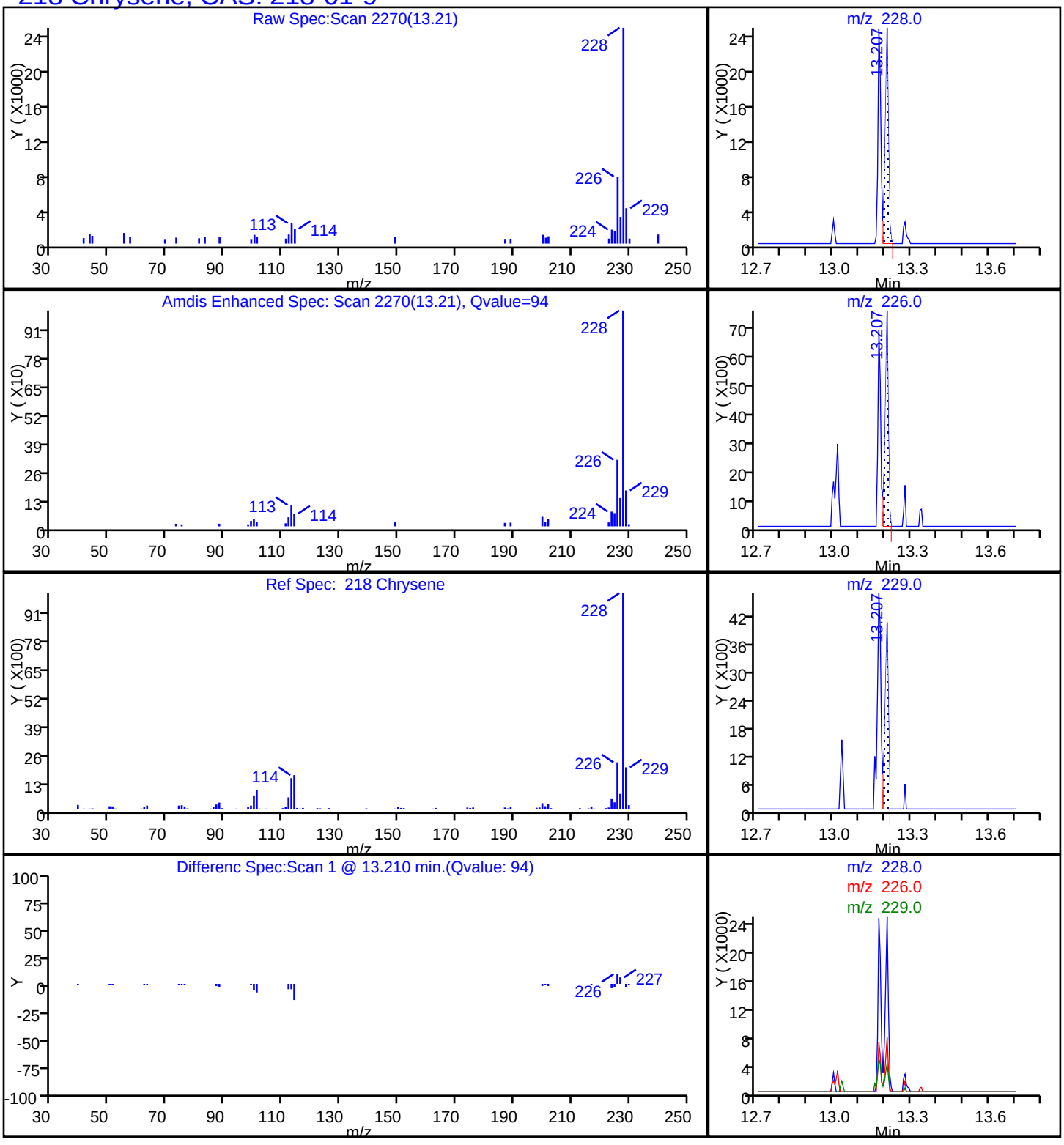


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304177.D

Injection Date:	24-Jul-2017 18:04:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

218 Chrysene, CAS: 218-01-9



TestAmerica Buffalo

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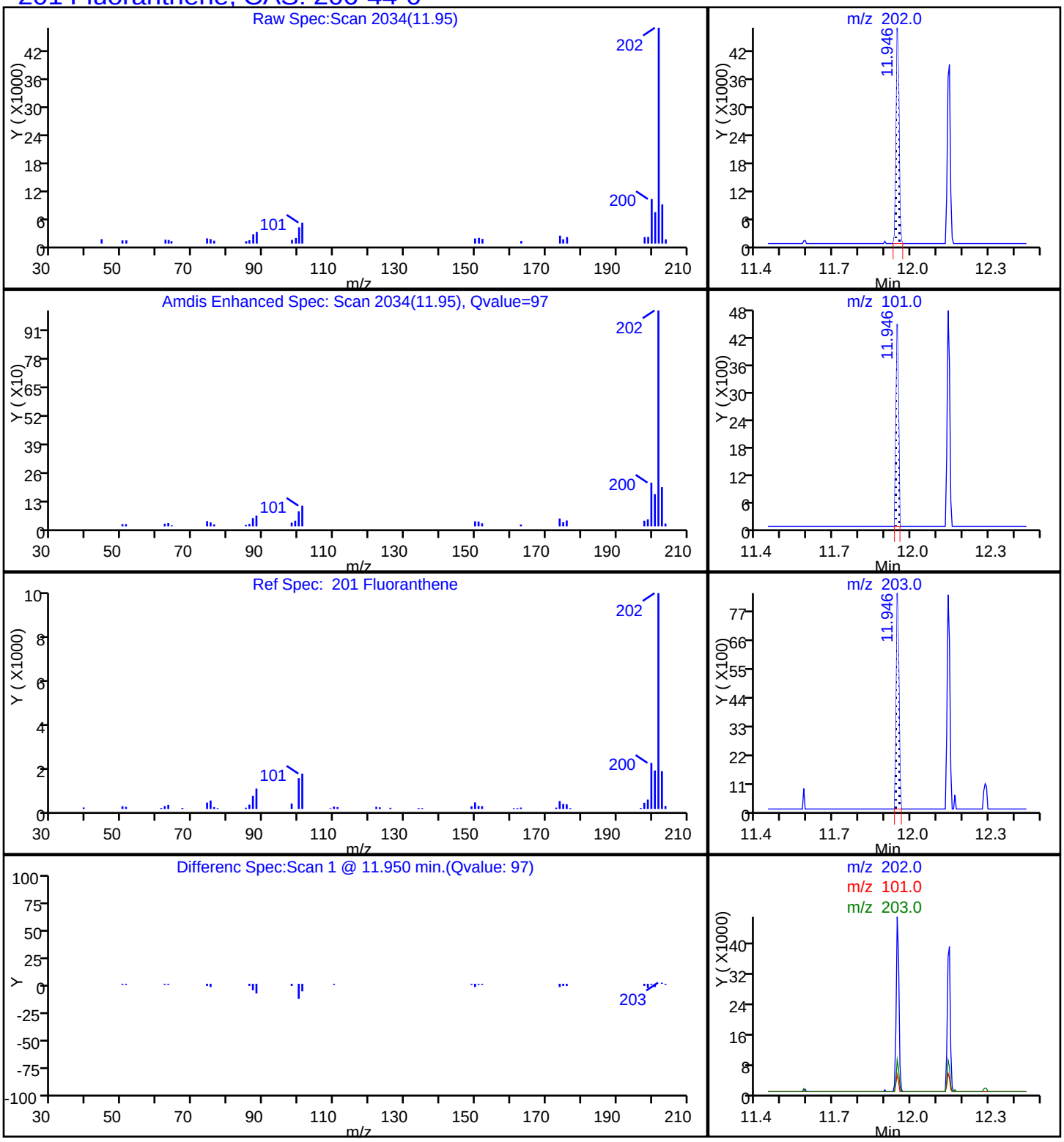
Injection Date:	24-Jul-2017 18:04:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

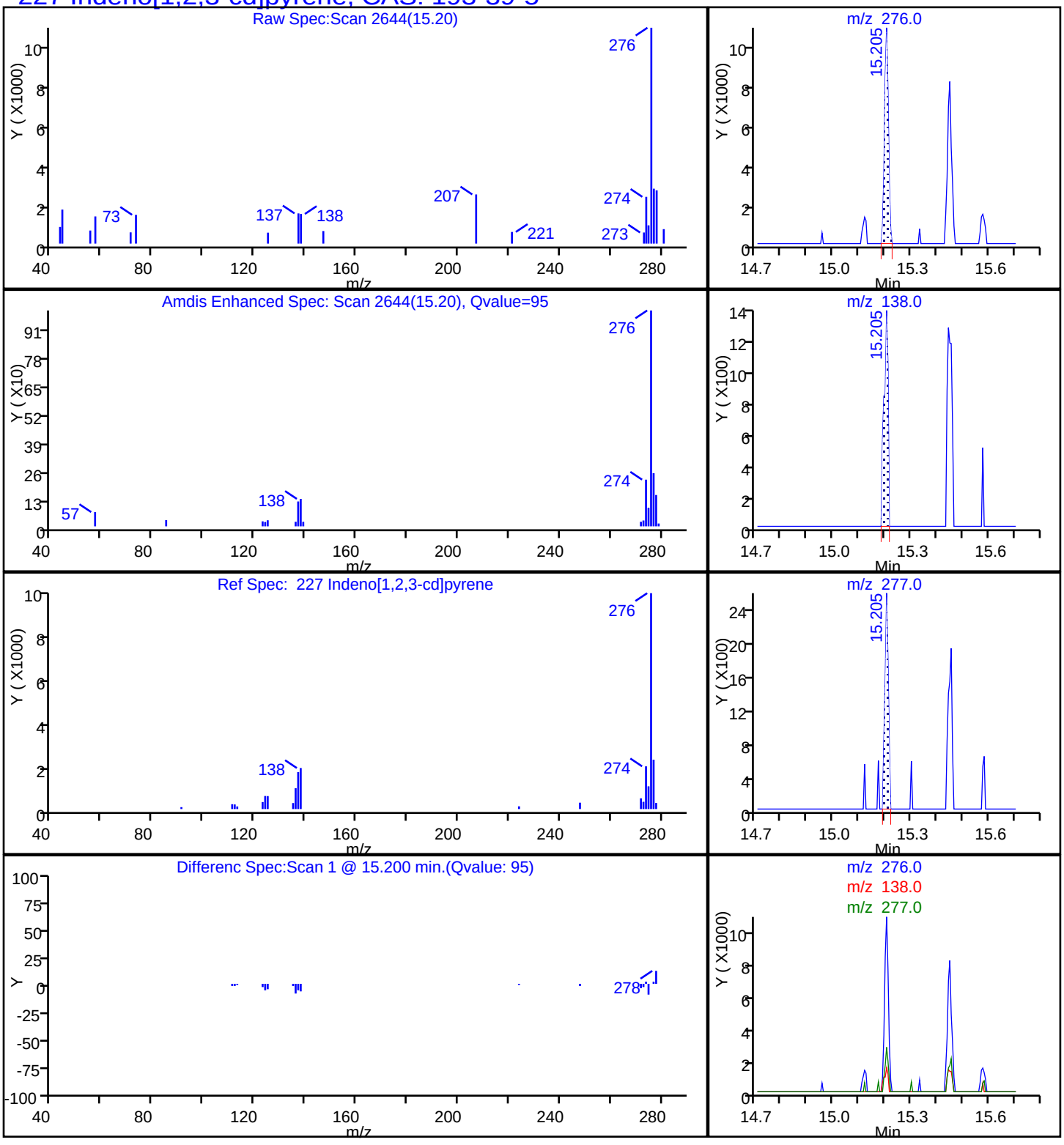
201 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304177.D				
Injection Date:	24-Jul-2017 18:04:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

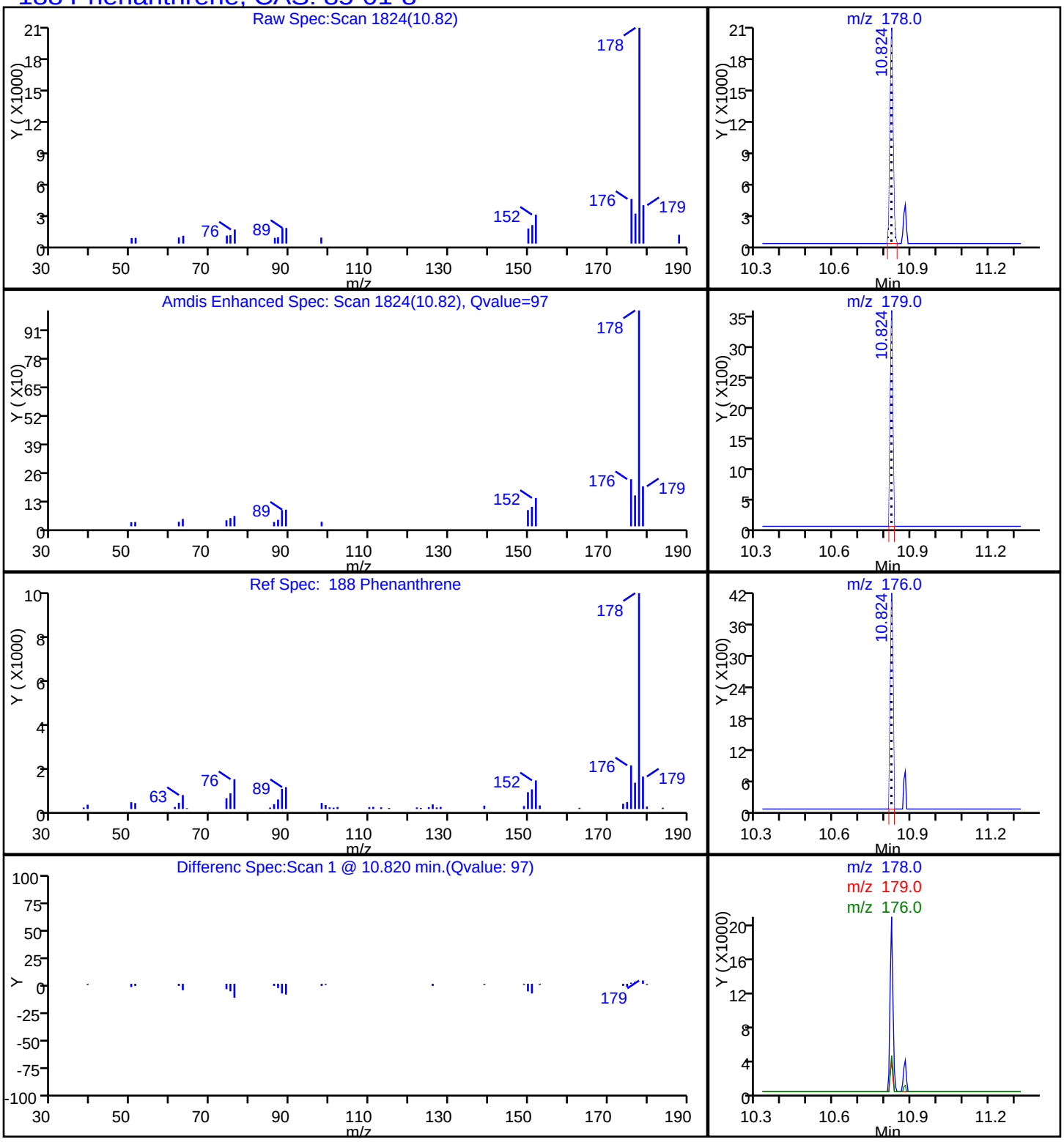
227 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304177.D				
Injection Date:	24-Jul-2017 18:04:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

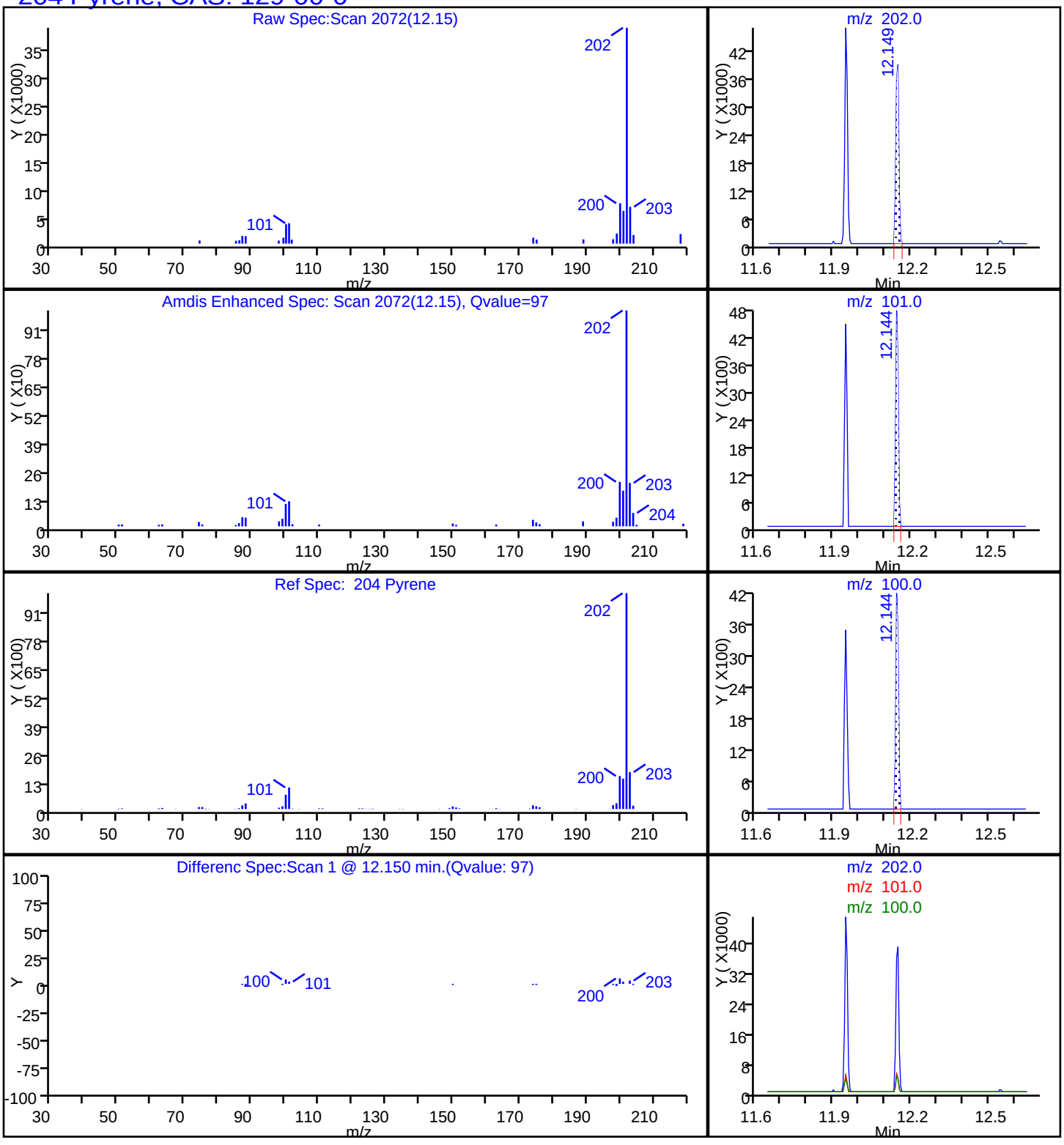
188 Phenanthrene, CAS: 85-01-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304177.D				
Injection Date:	24-Jul-2017 18:04:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

204 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

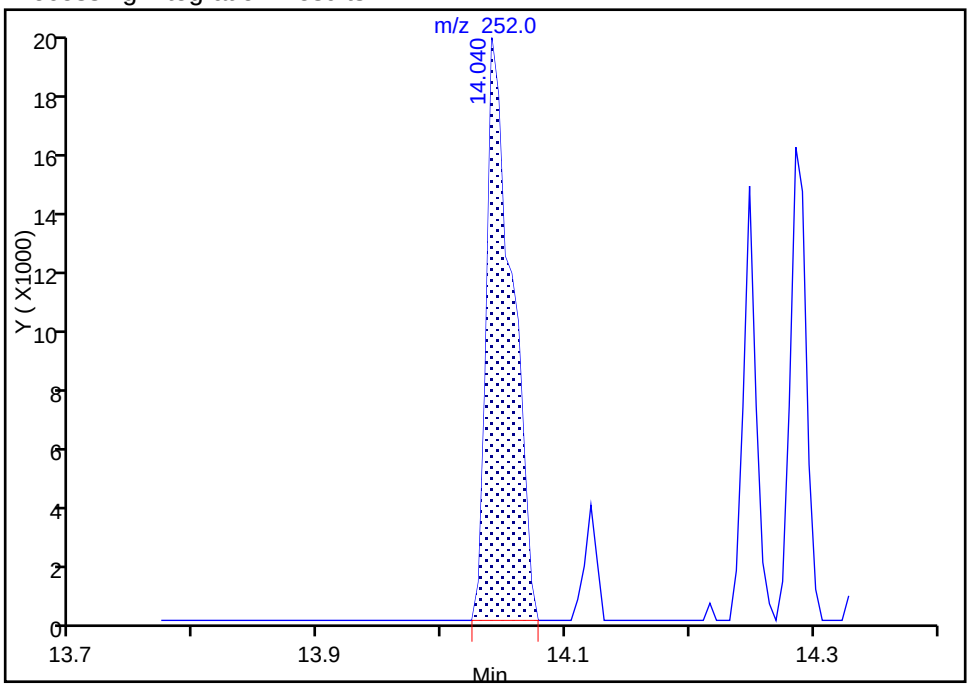
Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304177.D				
Injection Date:	24-Jul-2017 18:04:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

221 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

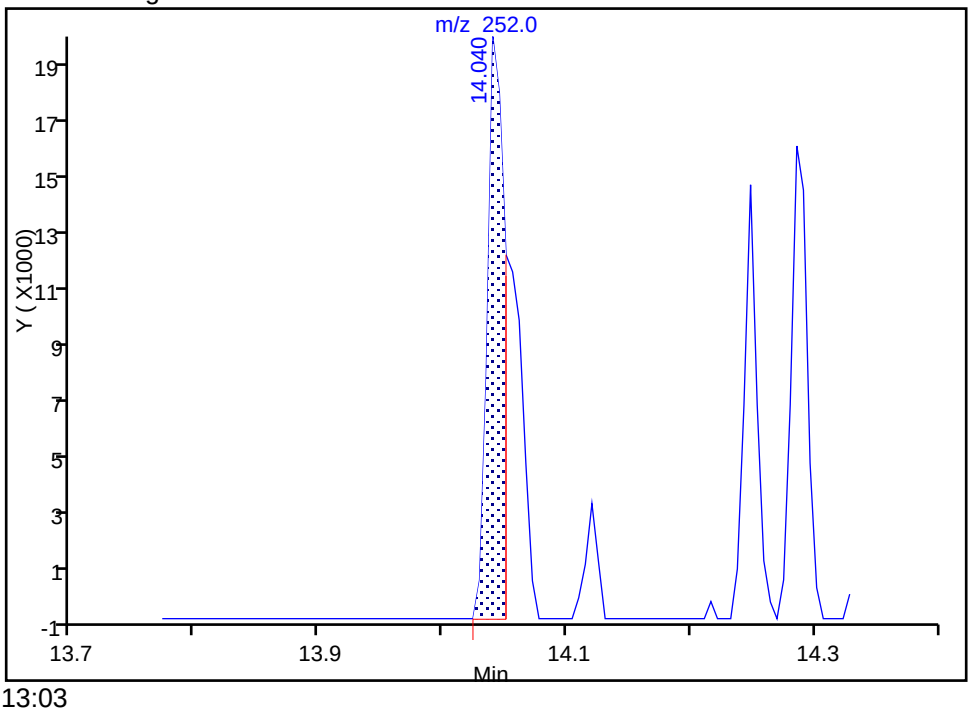
Processing Integration Results

RT: 14.04
Area: 27110
Amount: 5.292866
Amount Units: ng/uL



Manual Integration Results

RT: 14.04
Area: 18362
Amount: 3.584936
Amount Units: ng/uL



Reviewer: quirkp, 25-Jul-2017 11:13:03

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

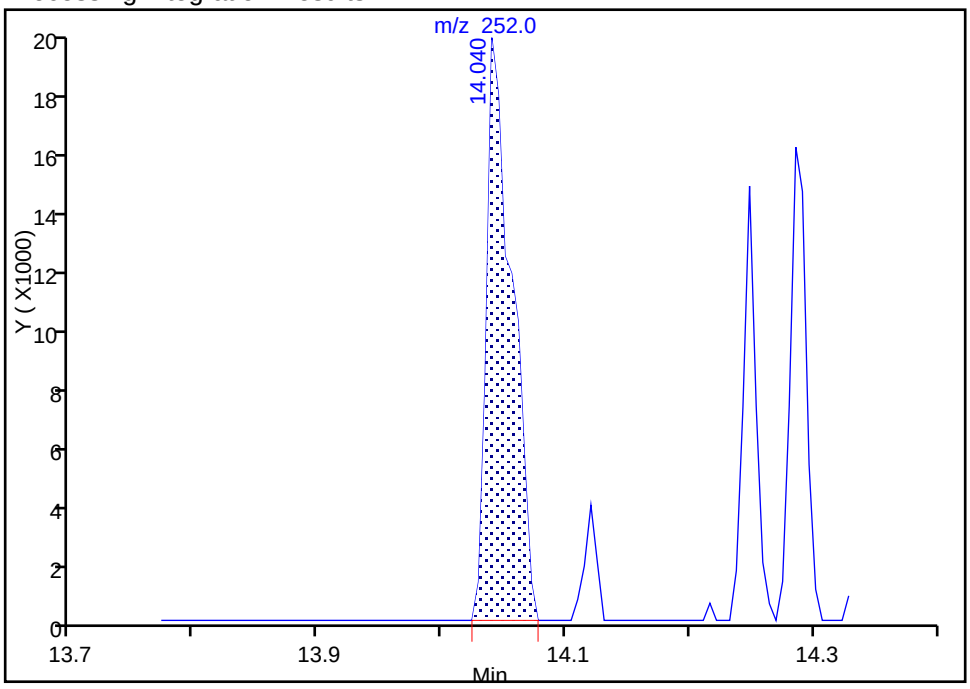
Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304177.D				
Injection Date:	24-Jul-2017 18:04:30	Instrument ID:	HP5973V		
Lims ID:	480-121411-A-4-B	Lab Sample ID:	480-121411-4		
Client ID:	DUP				
Operator ID:	PJQ	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

222 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

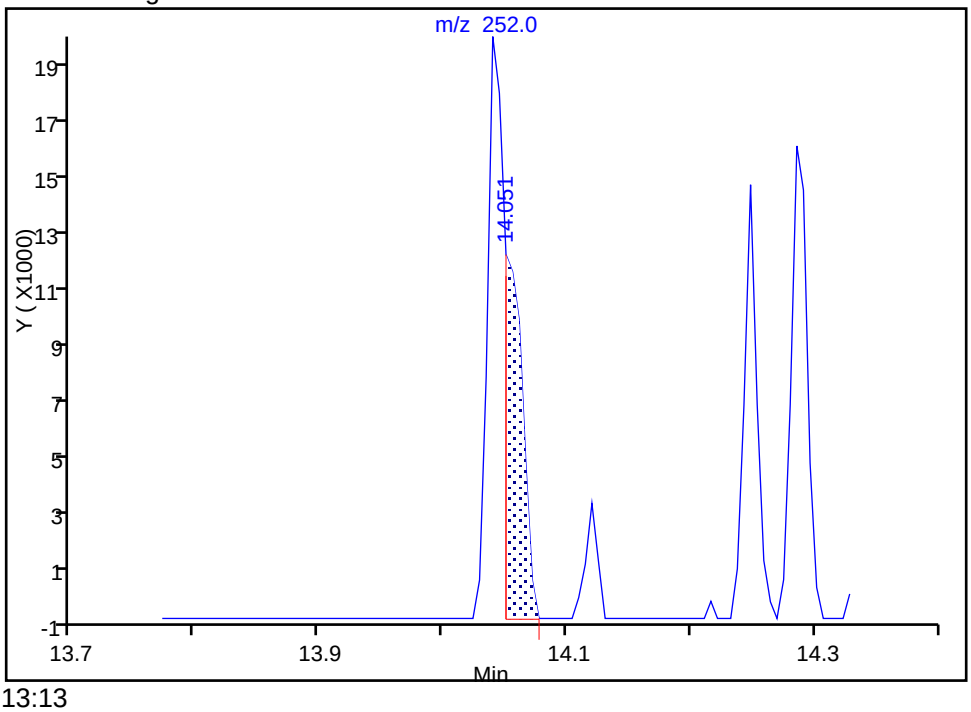
Processing Integration Results

RT: 14.04
Area: 27110
Amount: 5.444325
Amount Units: ng/uL



Manual Integration Results

RT: 14.05
Area: 12642
Amount: 2.538810
Amount Units: ng/uL



Reviewer: quirkp, 25-Jul-2017 11:13:13

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 365690

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2017 15:08 Calibration End Date: 07/06/2017 17:18 Calibration ID: 30821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-365690/3	V303868.D
Level 2	IC 480-365690/4	V303869.D
Level 3	ICIS 480-365690/5	V303870.D
Level 4	IC 480-365690/6	V303871.D
Level 5	IC 480-365690/7	V303872.D
Level 6	IC 480-365690/8	V303873.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.7110 0.6521	0.6610	0.6944	0.6842	0.6666	Ave		0.6782				3.3		20.0			
N-Nitrosodimethylamine	1.0989 1.0390	1.0627	1.0295	1.0779	1.0631	Ave		1.0618				2.4		20.0			
Pyridine	1.6798 1.6891	1.7058	1.7496	1.7753	1.7170	Ave		1.7195				2.1		20.0			
Benzaldehyde	1.2787 1.2511	1.2527	1.3380	1.3599	1.2877	Ave		1.2947			0.0100	3.5		20.0			
Aniline	2.2915 2.2880	2.2757	2.3579	2.3652	2.2958	Ave		2.3123				1.7		20.0			
Phenol	2.0070 1.9752	1.9632	2.0230	2.0030	1.9776	Ave		1.9915			0.8000	1.1		20.0			
Bis(2-chloroethyl)ether	1.4717 1.3975	1.3674	1.4368	1.4482	1.4378	Ave		1.4266			0.7000	2.6		20.0			
2-Chlorophenol	1.3181 1.3589	1.3417	1.3993	1.4062	1.3681	Ave		1.3654			0.8000	2.5		20.0			
n-Decane	2.2551 2.1060	2.1357	2.2593	2.2221	2.1548	Ave		2.1888			0.0100	3.0		20.0			
1,3-Dichlorobenzene	1.6081 1.5841	1.5818	1.6437	1.6121	1.5961	Ave		1.6043				1.4		20.0			
1,4-Dichlorobenzene	1.6370 1.5923	1.5470	1.6735	1.6591	1.5866	Ave		1.6159				3.0		20.0			
Benzyl alcohol	0.9078 0.9704	0.9334	1.0154	0.9770	0.9635	Ave		0.9612				3.9		20.0			
1,2-Dichlorobenzene	1.6816 1.4639	1.5255	1.5638	1.5413	1.4827	Ave		1.5431				5.0		20.0			
Indene	0.7066 0.6928	0.6982	0.7015	0.7128	0.7119	Ave		0.7040				1.1		20.0			
2-Methylphenol	1.2187 1.3130	1.3494	1.3316	1.3560	1.2913	Ave		1.3100			0.7000	3.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 365690

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2017 15:08 Calibration End Date: 07/06/2017 17:18 Calibration ID: 30821

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	2.9136 2.6463	2.7098	2.7847	2.7659	2.6549	Ave		2.7459			0.0100	3.6		20.0			
Acetophenone	1.9847 2.0402	2.0350	2.0588	2.0479	2.0260	Ave		2.0321			0.0100	1.3		20.0			
N-Nitrosodi-n-propylamine	1.1134 1.1225	1.1492	1.1566	1.1345	1.1142	Ave		1.1317			0.5000	1.6		20.0			
4-Methylphenol	1.3446 1.3565	1.3257	1.3987	1.4101	1.3368	Ave		1.3621			0.6000	2.5		20.0			
Hexachloroethane	0.6304 0.6169	0.6077	0.6489	0.6372	0.6187	Ave		0.6266			0.3000	2.4		20.0			
Nitrobenzene	0.4599 0.4879	0.4676	0.4980	0.5045	0.5113	Ave		0.4882			0.2000	4.2		20.0			
Isophorone	0.7462 0.8368	0.8091	0.8400	0.8420	0.8576	Ave		0.8220			0.4000	4.9		20.0			
2-Nitrophenol	0.1487 0.1987	0.1806	0.1895	0.1994	0.1990	Lin1	-0.296	0.2008			0.1000				1.0000		0.9900
2,4-Dimethylphenol	0.4057 0.4378	0.4008	0.4335	0.4339	0.4453	Ave		0.4261			0.2000	4.3		20.0			
Bis(2-chloroethoxy)methane	0.4681 0.4427	0.4485	0.4369	0.4486	0.4565	Ave		0.4502			0.3000	2.4		20.0			
Benzoic acid	0.1678 0.3209	0.2528	0.2904	0.3121	0.3290	Lin1	-2.865	0.3267							0.9980		0.9900
2,4-Dichlorophenol	0.3114 0.3164	0.3121	0.3230	0.3188	0.3306	Ave		0.3187			0.2000	2.3		20.0			
1,2,4-Trichlorobenzene	0.3480 0.3468	0.3616	0.3547	0.3542	0.3531	Ave		0.3531				1.5		20.0			
Naphthalene	1.0749 1.0574	1.0659	1.0734	1.0845	1.0895	Ave		1.0743			0.7000	1.1		20.0			
4-Chloroaniline	0.4484 0.4340	0.4256	0.4391	0.4446	0.4489	Ave		0.4401			0.0100	2.1		20.0			
2,6-Dichlorophenol	0.3052 0.3166	0.3087	0.3125	0.3185	0.3177	Ave		0.3132				1.7		20.0			
Hexachlorobutadiene	0.2650 0.2465	0.2490	0.2590	0.2594	0.2619	Ave		0.2568			0.0100	2.9		20.0			
Caprolactam	0.0760 0.1065	0.0920	0.0971	0.1066	0.1093	Lin1	-0.203	0.1081			0.0100				0.9980		0.9900
4-Chloro-3-methylphenol	0.3086 0.3604	0.3417	0.3457	0.3510	0.3626	Lin1	-0.303	0.3602			0.2000				1.0000		0.9900
2-Methylnaphthalene	0.6475 0.6597	0.6758	0.6643	0.6801	0.6850	Ave		0.6687			0.4000	2.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 365690

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2017 15:08 Calibration End Date: 07/06/2017 17:18 Calibration ID: 30821

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.5918 0.6128	0.6145	0.6074	0.6121	0.6310	Ave		0.6116			0.0100	2.1		20.0			
Hexachlorocyclopentadiene	0.4303 0.5773	0.5157	0.5736	0.5606	0.5672	Lin1	-0.816	0.5784			0.0500				1.0000		0.9900
1,2,4,5-Tetrachlorobenzene	0.7184 0.7339	0.7324	0.7503	0.7328	0.7050	Ave		0.7288			0.0100	2.1		20.0			
2,4,6-Trichlorophenol	0.3902 0.5030	0.4583	0.4876	0.4762	0.4850	Lin1	-0.581	0.4958			0.2000				0.9990		0.9900
2,4,5-Trichlorophenol	0.3888 0.5137	0.4881	0.5192	0.5027	0.4995	Lin1	-0.584	0.5146			0.2000				1.0000		0.9900
Biphenyl	1.6686 1.6625	1.6748	1.6811	1.6353	1.6060	Ave		1.6547			0.0100	1.7		20.0			
2-Chloronaphthalene	1.2848 1.3445	1.3605	1.3549	1.3246	1.3028	Ave		1.3287			0.8000	2.3		20.0			
2-Nitroaniline	0.4053 0.5597	0.5062	0.5314	0.5294	0.5298	Lin1	-0.770	0.5489			0.0100				0.9990		0.9900
Dimethyl phthalate	1.5485 1.5668	1.4900	1.5208	1.5177	1.4808	Ave		1.5208			0.0100	2.2		20.0			
1,3-Dinitrobenzene	0.1023 0.1295	0.1160	0.1162	0.1288	0.1284	Lin1	-0.176	0.1290							0.9990		0.9900
2,6-Dinitrotoluene	0.3449 0.3619	0.3387	0.3489	0.3442	0.3514	Ave		0.3484				2.3		20.0			
Acenaphthylene	1.8326 1.9594	1.9063	1.9505	1.9049	1.9068	Ave		1.9101			0.9000	2.4		20.0			
3-Nitroaniline	0.2640 0.3776	0.3676	0.3571	0.3738	0.3619	Lin1	-0.512	0.3760			0.0100				0.9990		0.9900
Acenaphthene	1.3045 1.2896	1.2837	1.2738	1.2685	1.2578	Ave		1.2797			0.9000	1.3		20.0			
2,4-Dinitrophenol	0.1060 0.2680	0.1874	0.2281	0.2452	0.2458	Lin1	-1.876	0.2604			0.0100				0.9970		0.9900
4-Nitrophenol	0.2027 0.3340	0.2752	0.3069	0.3227	0.3150	Lin1	-1.481	0.3299			0.0100				0.9990		0.9900
Dibenzofuran	1.8885 1.7944	1.8577	1.8133	1.8048	1.7491	Ave		1.8180			0.8000	2.7		20.0			
2,4-Dinitrotoluene	0.4118 0.4864	0.4726	0.4640	0.4787	0.4585	Ave		0.4620			0.2000	5.7		20.0			
2,3,4,6-Tetrachlorophenol	0.3158 0.4318	0.3657	0.4120	0.4087	0.4226	Lin1	-0.701	0.4279			0.0100				0.9990		0.9900
Diethyl phthalate	1.4553 1.5654	1.5108	1.5530	1.5036	1.4952	Ave		1.5139			0.0100	2.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 365690

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2017 15:08 Calibration End Date: 07/06/2017 17:18 Calibration ID: 30821

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexadecane	1.2155 1.3061	1.3066	1.3292	1.2762	1.2553	Ave		1.2815			0.0100	3.2		20.0			
Fluorene	1.4422 1.4768	1.4775	1.4483	1.4495	1.4223	Ave		1.4528			0.9000	1.5		20.0			
4-Chlorophenyl phenyl ether	0.7756 0.7589	0.7423	0.7407	0.7364	0.7230	Ave		0.7461			0.4000	2.5		20.0			
4-Nitroaniline	0.2793 0.3677	0.3548	0.3578	0.3655	0.3608	Lin1	-0.426	0.3690			0.0100				1.0000		0.9900
4,6-Dinitro-2-methylphenol	0.1063 0.1597	0.1323	0.1509	0.1535	0.1604	Lin1	-0.666	0.1606			0.0100				0.9990		0.9900
Diphenylamine	0.6432 0.6520	0.6611	0.6670	0.6543	0.6789	Ave		0.6594				1.9		20.0			
N-Nitrosodiphenylamine	0.5500 0.5575	0.5653	0.5703	0.5594	0.5804	Ave		0.5638			0.0100	1.9		20.0			
1,2-Diphenylhydrazine	1.8221 1.8772	1.8177	1.8372	1.8581	1.7735	Ave		1.8310				2.0		20.0			
trans-Azobenzene	0.9125 0.9202	0.9033	0.9395	0.9335	0.9376	Ave		0.9244				1.6		20.0			
4-Bromophenyl phenyl ether	0.2288 0.2315	0.2270	0.2350	0.2371	0.2327	Ave		0.2320			0.1000	1.6		20.0			
Hexachlorobenzene	0.2371 0.2402	0.2418	0.2450	0.2427	0.2506	Lin1	-0.038	0.2448			0.1000				1.0000		0.9900
Atrazine	0.3773 0.4582	0.4628	0.4320	0.4544	0.4255	Ave		0.4350			0.0100	7.3		20.0			
Pentachlorophenol	0.0815 0.1587	0.1235	0.1490	0.1562	0.1591	Lin1	-0.942	0.1616			0.0500				0.9990		0.9900
n-Octadecane	0.6155 0.6296	0.6026	0.6625	0.6262	0.6388	Lin1	-0.143	0.6364			0.0100				0.9990		0.9900
Phenanthrene	1.0487 1.0437	1.0692	1.0568	1.0618	1.0818	Ave		1.0603			0.7000	1.3		20.0			
Anthracene	1.0696 1.1045	1.1033	1.1225	1.1009	1.1277	Ave		1.1048			0.7000	1.9		20.0			
Carbazole	0.8719 0.9448	0.9513	0.9528	0.9658	0.9647	Ave		0.9419			0.0100	3.7		20.0			
Di-n-butyl phthalate	1.1117 1.2706	1.1655	1.2392	1.2556	1.2804	Lin1	-1.101	1.2757			0.0100				1.0000		0.9900
Fluoranthene	1.1210 1.2171	1.1919	1.2293	1.2140	1.2357	Ave		1.2015			0.6000	3.5		20.0			
Benzidine	0.6648 0.7671	0.7033	0.7718	0.7802	0.7559	Ave		0.7405				6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 365690

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2017 15:08 Calibration End Date: 07/06/2017 17:18 Calibration ID: 30821

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Pyrene	1.0909 1.1736	1.2052	1.2464	1.1831	1.1558	Ave		1.1758			0.6000	4.4		20.0			
Butyl benzyl phthalate	0.4222 0.5284	0.4674	0.5125	0.5137	0.5161	Lin1	-0.639	0.5254			0.0100				1.0000		0.9900
3,3'-Dichlorobenzidine	0.3411 0.4177	0.3854	0.4121	0.4135	0.4143	Lin1	-0.441	0.4195			0.0100				1.0000		0.9900
Benzo(a)anthracene	1.1048 1.1805	1.1436	1.1823	1.1574	1.1562	Ave		1.1541			0.8000	2.5		20.0			
Bis(2-ethylhexyl) phthalate	0.6209 0.7673	0.6688	0.7346	0.7434	0.7346	Lin1	-0.888	0.7561			0.0100				0.9990		0.9900
Chrysene	1.1461 1.0858	1.1159	1.0956	1.0722	1.0782	Ave		1.0990			0.7000	2.5		20.0			
Di-n-octyl phthalate	1.0076 1.2772	1.1344	1.2003	1.2429	1.2442	Lin1	-1.616	1.2655			0.0100				0.9990		0.9900
Benzo(b)fluoranthene	1.0603 1.1713	1.1704	1.1324	1.2146	1.2008	Ave		1.1583			0.7000	4.8		20.0			
Benzo(k)fluoranthene	1.2251 1.1022	1.0907	1.1517	1.0952	1.0916	Ave		1.1261			0.7000	4.8		20.0			
Benzo(a)pyrene	1.0012 1.0609	1.0271	1.0821	1.0670	1.0852	Ave		1.0539			0.7000	3.1		20.0			
Indeno(1,2,3-cd)pyrene	1.1592 1.3040	1.1571	1.2743	1.2753	1.3280	Ave		1.2497			0.5000	5.9		20.0			
Dibenz(a,h)anthracene	0.9271 1.0729	1.0232	1.0537	1.0594	1.1177	Ave		1.0423				6.2		20.0			
Benzo(g,h,i)perylene	1.0222 1.1118	1.0023	1.1005	1.0973	1.1446	Ave		1.0798			0.5000	5.1		20.0			
2-Fluorophenol	1.2742 1.3838	1.3048	1.4960	1.4183	1.3925	Ave		1.3783				5.8		20.0			
Phenol-d5	1.7513 1.7427	1.7355	1.7948	1.8052	1.7876	Ave		1.7695				1.7		20.0			
Nitrobenzene-d5	0.4787 0.4949	0.4837	0.4982	0.5107	0.5177	Ave		0.4973				3.0		20.0			
2-Fluorobiphenyl	1.7549 1.6880	1.7132	1.6764	1.6581	1.6369	Ave		1.6879				2.5		20.0			
2,4,6-Tribromophenol	0.0880 0.1247	0.1118	0.1240	0.1246	0.1286	Lin1	-0.219	0.1279							1.0000		0.9900
p-Terphenyl-d14	0.8305 0.8284	0.8112	0.8583	0.8212	0.8134	Ave		0.8272				2.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 365690

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2017 15:08 Calibration End Date: 07/06/2017 17:18 Calibration ID: 30821

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-365690/3	V303868.D
Level 2	IC 480-365690/4	V303869.D
Level 3	ICIS 480-365690/5	V303870.D
Level 4	IC 480-365690/6	V303871.D
Level 5	IC 480-365690/7	V303872.D
Level 6	IC 480-365690/8	V303873.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	5213 105498	18424	51976	76955	88973	5.00 120	20.0	50.0	80.0	100
N-Nitrosodimethylamine	DCBd 4	Ave	8057 168089	29620	77061	121232	141904	5.00 120	20.0	50.0	80.0	100
Pyridine	DCBd 4	Ave	12316 273278	47546	130967	199680	229184	5.00 120	20.0	50.0	80.0	100
Benzaldehyde	DCBd 4	Ave	9375 202410	34917	100152	152958	171875	5.00 120	20.0	50.0	80.0	100
Aniline	DCBd 4	Ave	16801 370166	63430	176498	266018	306436	5.00 120	20.0	50.0	80.0	100
Phenol	DCBd 4	Ave	14715 319566	54720	151427	225283	263960	5.00 120	20.0	50.0	80.0	100
Bis(2-chloroethyl)ether	DCBd 4	Ave	10790 226097	38112	107547	162882	191916	5.00 120	20.0	50.0	80.0	100
2-Chlorophenol	DCBd 4	Ave	9664 219848	37397	104744	158157	182605	5.00 120	20.0	50.0	80.0	100
n-Decane	DCBd 4	Ave	16534 340726	59526	169115	249934	287621	5.00 120	20.0	50.0	80.0	100
1,3-Dichlorobenzene	DCBd 4	Ave	11790 256291	44088	123035	181322	213050	5.00 120	20.0	50.0	80.0	100
1,4-Dichlorobenzene	DCBd 4	Ave	12002 257606	43119	125266	186604	211769	5.00 120	20.0	50.0	80.0	100
Benzyl alcohol	DCBd 4	Ave	6656 156993	26016	76003	109883	128609	5.00 120	20.0	50.0	80.0	100
1,2-Dichlorobenzene	DCBd 4	Ave	12329 236832	42520	117057	173356	197911	5.00 120	20.0	50.0	80.0	100
Indene	NPT	Ave	55815 1175590	204340	559416	845308	965787	15.0 360	60.0	150	240	300
2-Methylphenol	DCBd 4	Ave	8935 212433	37611	99673	152513	172357	5.00 120	20.0	50.0	80.0	100
bis (2-chloroisopropyl) ether	DCBd 4	Ave	21362 428137	75530	208442	311092	354370	5.00 120	20.0	50.0	80.0	100

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 365690

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2017 15:08 Calibration End Date: 07/06/2017 17:18 Calibration ID: 30821

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetophenone	DCBd 4	Ave	14551 330084	56720	154107	230341	270432	5.00 120	20.0	50.0	80.0	100
N-Nitrosodi-n-propylamine	DCBd 4	Ave	8163 181610	32030	86577	127607	148715	5.00 120	20.0	50.0	80.0	100
4-Methylphenol	DCBd 4	Ave	9858 219465	36951	104699	158602	178430	5.00 120	20.0	50.0	80.0	100
Hexachloroethane	DCBd 4	Ave	4622 99808	16939	48572	71673	82576	5.00 120	20.0	50.0	80.0	100
Nitrobenzene	NPT	Ave	12110 275992	45623	132376	199449	231207	5.00 120	20.0	50.0	80.0	100
Isophorone	NPT	Ave	19647 473320	78939	223308	332862	387817	5.00 120	20.0	50.0	80.0	100
2-Nitrophenol	NPT	Lin1	3914 112401	17617	50386	78820	89994	5.00 120	20.0	50.0	80.0	100
2,4-Dimethylphenol	NPT	Ave	10681 247657	39097	115236	171526	201348	5.00 120	20.0	50.0	80.0	100
Bis(2-chloroethoxy)methane	NPT	Ave	12324 250397	43757	116149	177358	206441	5.00 120	20.0	50.0	80.0	100
Benzoic acid	NPT	Lin1	13257 544558	73992	231621	370094	446330	15.0 360	60.0	150	240	300
2,4-Dichlorophenol	NPT	Ave	8200 178989	30446	85874	126024	149506	5.00 120	20.0	50.0	80.0	100
1,2,4-Trichlorobenzene	NPT	Ave	9162 196152	35279	94281	140026	159664	5.00 120	20.0	50.0	80.0	100
Naphthalene	NPT	Ave	28303 598119	103984	285342	428718	492670	5.00 120	20.0	50.0	80.0	100
4-Chloroaniline	NPT	Ave	11806 245473	41524	116719	175757	202976	5.00 120	20.0	50.0	80.0	100
2,6-Dichlorophenol	NPT	Ave	8036 179070	30114	83081	125928	143673	5.00 120	20.0	50.0	80.0	100
Hexachlorobutadiene	NPT	Ave	6977 139414	24292	68852	102557	118428	5.00 120	20.0	50.0	80.0	100
Caprolactam	NPT	Lin1	2000 60231	8976	25811	42122	49419	5.00 120	20.0	50.0	80.0	100
4-Chloro-3-methylphenol	NPT	Lin1	8126 203878	33338	91896	138737	163960	5.00 120	20.0	50.0	80.0	100
2-Methylnaphthalene	NPT	Ave	17049 373128	65929	176607	268839	309761	5.00 120	20.0	50.0	80.0	100
1-Methylnaphthalene	NPT	Ave	15583 346598	59948	161463	241974	285311	5.00 120	20.0	50.0	80.0	100
Hexachlorocyclopentadiene	ANT	Lin1	5538 158916	24713	73936	111075	133449	5.00 120	20.0	50.0	80.0	100

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 365690

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2017 15:08 Calibration End Date: 07/06/2017 17:18 Calibration ID: 30821

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	9245 202017	35100	96719	145194	165886	5.00 120	20.0	50.0	80.0	100
2,4,6-Trichlorophenol	ANT	Lin1	5021 138442	21963	62854	94346	114112	5.00 120	20.0	50.0	80.0	100
2,4,5-Trichlorophenol	ANT	Lin1	5003 141390	23393	66931	99609	117520	5.00 120	20.0	50.0	80.0	100
Biphenyl	ANT	Ave	21473 457603	80258	216694	324005	377877	5.00 120	20.0	50.0	80.0	100
2-Chloronaphthalene	ANT	Ave	16534 370074	65197	174653	262448	306532	5.00 120	20.0	50.0	80.0	100
2-Nitroaniline	ANT	Lin1	5216 154068	24256	68499	104898	124652	5.00 120	20.0	50.0	80.0	100
Dimethyl phthalate	ANT	Ave	19928 431262	71406	196035	300715	348417	5.00 120	20.0	50.0	80.0	100
1,3-Dinitrobenzene	NPT	Lin1	2694 73225	11314	30903	50935	58054	5.00 120	20.0	50.0	80.0	100
2,6-Dinitrotoluene	ANT	Ave	4439 99619	16231	44978	68205	82685	5.00 120	20.0	50.0	80.0	100
Acenaphthylene	ANT	Ave	23583 539338	91352	251428	377429	448657	5.00 120	20.0	50.0	80.0	100
3-Nitroaniline	ANT	Lin1	3397 103938	17615	46028	74055	85143	5.00 120	20.0	50.0	80.0	100
Acenaphthene	ANT	Ave	16788 354959	61519	164198	251333	295958	5.00 120	20.0	50.0	80.0	100
2,4-Dinitrophenol	ANT	Lin1	2727 147534	17961	58810	97147	115655	10.0 240	40.0	100	160	200
4-Nitrophenol	ANT	Lin1	5216 183866	26374	79119	127868	148247	10.0 240	40.0	100	160	200
Dibenzofuran	ANT	Ave	24303 493933	89026	233735	357592	411543	5.00 120	20.0	50.0	80.0	100
2,4-Dinitrotoluene	ANT	Ave	5300 133891	22649	59805	94851	107884	5.00 120	20.0	50.0	80.0	100
2,3,4,6-Tetrachlorophenol	ANT	Lin1	4064 118853	17525	53104	80981	99436	5.00 120	20.0	50.0	80.0	100
Diethyl phthalate	ANT	Ave	18728 430882	72399	200188	297917	351816	5.00 120	20.0	50.0	80.0	100
Hexadecane	ANT	Ave	15642 359520	62614	171341	252863	295374	5.00 120	20.0	50.0	80.0	100
Fluorene	ANT	Ave	18560 406509	70804	186686	287208	334670	5.00 120	20.0	50.0	80.0	100
4-Chlorophenyl phenyl ether	ANT	Ave	9981 208884	35573	95473	145902	170116	5.00 120	20.0	50.0	80.0	100

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 365690

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2017 15:08 Calibration End Date: 07/06/2017 17:18 Calibration ID: 30821

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Nitroaniline	ANT	Lin1	3594 101203	17005	46126	72424	84901	5.00 120	20.0	50.0	80.0	100
4,6-Dinitro-2-methylphenol	PHN	Lin1	5461 179348	25523	76094	121108	142762	10.0 240	40.0	100	160	200
Diphenylamine	PHN	Ave	14133 313055	54510	143751	220626	258338	4.28 103	17.1	42.8	68.4	85.5
N-Nitrosodiphenylamine	PHN	Ave	14133 313055	54510	143751	220626	258338	5.00 120	20.0	50.0	80.0	100
1,2-Diphenylhydrazine	ANT	Ave	23449 516719	87106	236826	368148	417289	5.00 120	20.0	50.0	80.0	100
trans-Azobenzene	PHN	Ave	23449 516719	87106	236826	368148	417289	5.00 120	20.0	50.0	80.0	100
4-Bromophenyl phenyl ether	PHN	Ave	5879 130015	21887	59242	93502	103557	5.00 120	20.0	50.0	80.0	100
Hexachlorobenzene	PHN	Lin1	6093 134860	23314	61765	95720	111534	5.00 120	20.0	50.0	80.0	100
Atrazine	ANT	Ave	4856 126127	22179	55690	90028	100108	5.00 120	20.0	50.0	80.0	100
Pentachlorophenol	PHN	Lin1	4187 178233	23821	75128	123232	141642	10.0 240	40.0	100	160	200
n-Octadecane	PHN	Lin1	15818 353572	58114	167000	246966	284310	5.00 120	20.0	50.0	80.0	100
Phenanthrene	PHN	Ave	26949 586096	103109	266392	418725	481487	5.00 120	20.0	50.0	80.0	100
Anthracene	PHN	Ave	27485 620202	106399	282962	434172	501907	5.00 120	20.0	50.0	80.0	100
Carbazole	PHN	Ave	22406 530524	91741	240186	380870	429345	5.00 120	20.0	50.0	80.0	100
Di-n-butyl phthalate	PHN	Lin1	28569 713488	112396	312386	495176	569878	5.00 120	20.0	50.0	80.0	100
Fluoranthene	PHN	Ave	28806 683471	114945	309871	478751	549998	5.00 120	20.0	50.0	80.0	100
Benzidine	CRY	Ave	18072 463630	74465	199790	332334	377460	5.00 120	20.0	50.0	80.0	100
Pyrene	CRY	Ave	29654 709359	127610	322638	503911	577101	5.00 120	20.0	50.0	80.0	100
Butyl benzyl phthalate	CRY	Lin1	11476 319365	49485	132672	218807	257712	5.00 120	20.0	50.0	80.0	100
3,3'-Dichlorobenzidine	CRY	Lin1	9273 252461	40802	106673	176130	206857	5.00 120	20.0	50.0	80.0	100
Benzo(a)anthracene	CRY	Ave	30031 713517	121079	306033	492979	577334	5.00 120	20.0	50.0	80.0	100

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 365690

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2017 15:08 Calibration End Date: 07/06/2017 17:18 Calibration ID: 30821

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bis(2-ethylhexyl) phthalate	CRY	Lin1	16877 463782	70812	190154	316662	366802	5.00 120	20.0	50.0	80.0	100
Chrysene	CRY	Ave	31153 656259	118154	283604	456679	538371	5.00 120	20.0	50.0	80.0	100
Di-n-octyl phthalate	CRY	Lin1	27389 771948	120105	310694	529397	621252	5.00 120	20.0	50.0	80.0	100
Benzo(b)fluoranthene	PRY	Ave	28106 734512	129007	294246	526685	619047	5.00 120	20.0	50.0	80.0	100
Benzo(k)fluoranthene	PRY	Ave	32473 691168	120220	299265	474915	562760	5.00 120	20.0	50.0	80.0	100
Benzo(a)pyrene	PRY	Ave	26538 665295	113217	281190	462700	559471	5.00 120	20.0	50.0	80.0	100
Indeno(1,2,3-cd)pyrene	PRY	Ave	30726 817745	127546	331121	553019	684658	5.00 120	20.0	50.0	80.0	100
Dibenz(a,h)anthracene	PRY	Ave	24575 672804	112782	273791	459395	576212	5.00 120	20.0	50.0	80.0	100
Benzo(g,h,i)perylene	PRY	Ave	27095 697212	110480	285966	475824	590065	5.00 120	20.0	50.0	80.0	100
2-Fluorophenol	DCBd 4	Ave	9342 223878	36369	111984	159525	185873	5.00 120	20.0	50.0	80.0	100
Phenol-d5	DCBd 4	Ave	12840 281945	48374	134346	203034	238600	5.00 120	20.0	50.0	80.0	100
Nitrobenzene-d5	NPT	Ave	12604 279931	47192	132442	201883	234105	5.00 120	20.0	50.0	80.0	100
2-Fluorobiphenyl	ANT	Ave	22584 464641	82100	216091	328536	385143	5.00 120	20.0	50.0	80.0	100
2,4,6-Tribromophenol	PHN	Lin1	2262 70012	10780	31247	49122	57231	5.00 120	20.0	50.0	80.0	100
p-Terphenyl-d14	CRY	Ave	22574 500677	85891	222174	349792	406161	5.00 120	20.0	50.0	80.0	100

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303868.D
Lims ID: IC L1 5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Jul-2017 15:08:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0063851-003
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 07-Jul-2017 09:32:21 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quirkp Date: 07-Jul-2017 09:01:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.589	5.588	0.001	96	58654	40.0	40.0	
* 2 Naphthalene-d8	136	7.143	7.143	0.000	99	210641	40.0	40.0	
* 3 Acenaphthene-d10	164	9.205	9.205	0.000	98	102951	40.0	40.0	
* 4 Phenanthrene-d10	188	10.829	10.829	0.000	98	205581	40.0	40.0	
* 5 Chrysene-d12	240	13.212	13.217	-0.005	97	217457	40.0	40.0	
* 6 Perylene-d12	264	14.361	14.366	-0.005	99	212052	40.0	40.0	
$ 7 2-Fluorophenol	112	3.836	3.831	0.005	95	9342	5.00	4.62	
$ 8 Phenol-d5	99	5.161	5.161	0.000	95	12840	5.00	4.95	
$ 9 Nitrobenzene-d5	82	6.283	6.283	0.000	94	12604	5.00	4.81	
$ 10 2-Fluorobiphenyl	172	8.436	8.436	0.000	99	22584	5.00	5.20	
$ 11 2,4,6-Tribromophenol	330	10.108	10.108	0.000	88	2262	5.00	5.16	
$ 12 p-Terphenyl-d14	244	12.320	12.325	-0.005	66	22574	5.00	5.02	
68 1,4-Dioxane	88	1.566	1.560	0.006	88	5213	5.00	5.24	
69 N-Nitrosodimethylamine	42	1.854	1.844	0.010	88	8057	5.00	5.17	
70 Pyridine	52	1.902	1.886	0.016	81	12316	5.00	4.88	
80 Benzaldehyde	77	5.022	5.017	0.005	89	9375	5.00	4.94	
82 Aniline	93	5.172	5.172	0.000	72	16801	5.00	4.96	
81 Phenol	94	5.177	5.177	0.000	79	14715	5.00	5.04	
83 Bis(2-chloroethyl)ether	93	5.268	5.268	0.000	93	10790	5.00	5.16	
84 2-Chlorophenol	128	5.322	5.321	0.001	93	9664	5.00	4.83	
263 n-Decane	57	5.423	5.428	-0.005	92	16534	5.00	5.15	
87 1,3-Dichlorobenzene	146	5.514	5.514	0.000	93	11790	5.00	5.01	
88 1,4-Dichlorobenzene	146	5.610	5.610	0.000	92	12002	5.00	5.07	
90 Benzyl alcohol	108	5.781	5.786	-0.005	90	6656	5.00	4.72	
91 1,2-Dichlorobenzene	146	5.802	5.802	0.000	95	12329	5.00	5.45	
248 Indene	115	5.909	5.914	-0.005	95	55815	15.0	15.1	
92 2-Methylphenol	108	5.947	5.946	0.001	96	8935	5.00	4.65	
93 2,2'-oxybis[1-chloropropan	45	5.963	5.968	-0.005	90	21362	5.00	5.31	
94 Acetophenone	105	6.101	6.101	0.000	91	14551	5.00	4.88	
95 N-Nitrosodi-n-propylamine	70	6.118	6.117	0.001	93	8163	5.00	4.92	
96 4-Methylphenol	108	6.144	6.144	0.000	92	9858	5.00	4.94	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.214	6.213	0.001	89	4622	5.00	5.03	
102 Nitrobenzene	77	6.305	6.304	0.000	94	12110	5.00	4.71	
106 Isophorone	82	6.598	6.603	-0.005	98	19647	5.00	4.54	
107 2-Nitrophenol	139	6.694	6.694	0.000	78	3914	5.00	5.17	
108 2,4-Dimethylphenol	107	6.780	6.785	-0.005	97	10681	5.00	4.76	
111 Bis(2-chloroethoxy)methane	93	6.887	6.887	0.000	98	12324	5.00	5.20	
115 Benzoic acid	105	6.892	6.993	-0.101	0	13257	15.0	16.5	M
114 2,4-Dichlorophenol	162	6.994	6.993	0.001	94	8200	5.00	4.89	
117 1,2,4-Trichlorobenzene	180	7.084	7.084	0.000	56	9162	5.00	4.93	
118 Naphthalene	128	7.165	7.170	-0.005	97	28303	5.00	5.00	
119 4-Chloroaniline	127	7.250	7.255	-0.005	94	11806	5.00	5.09	
122 2,6-Dichlorophenol	162	7.261	7.261	0.000	88	8036	5.00	4.87	
121 Hexachlorobutadiene	225	7.341	7.341	0.000	94	6977	5.00	5.16	
124 Caprolactam	113	7.619	7.667	-0.048	72	2000	5.00	5.39	
129 4-Chloro-3-methylphenol	107	7.854	7.859	-0.005	92	8126	5.00	5.12	
131 2-Methylnaphthalene	142	7.993	7.992	0.001	90	17049	5.00	4.84	
251 1-Methylnaphthalene	142	8.105	8.105	0.000	96	15583	5.00	4.84	
134 Hexachlorocyclopentadiene	237	8.190	8.195	-0.005	90	5538	5.00	5.13	
135 1,2,4,5-Tetrachlorobenzene	216	8.196	8.195	0.001	96	9245	5.00	4.93	
137 2,4,6-Trichlorophenol	196	8.340	8.340	0.000	93	5021	5.00	5.11	
138 2,4,5-Trichlorophenol	196	8.383	8.382	0.001	87	5003	5.00	4.91	
140 1,1'-Biphenyl	154	8.543	8.548	-0.005	96	21473	5.00	5.04	
141 2-Chloronaphthalene	162	8.554	8.559	-0.005	97	16534	5.00	4.83	
143 2-Nitroaniline	65	8.687	8.692	-0.005	75	5216	5.00	5.09	
146 Dimethyl phthalate	163	8.917	8.922	-0.005	98	19928	5.00	5.09	
148 1,3-Dinitrobenzene	168	8.938	8.943	-0.005	80	2694	5.00	5.33	
149 2,6-Dinitrotoluene	165	8.976	8.981	-0.005	88	4439	5.00	4.95	
150 Acenaphthylene	152	9.034	9.034	0.000	98	23583	5.00	4.80	
151 3-Nitroaniline	138	9.168	9.173	-0.005	89	3397	5.00	4.87	
152 Acenaphthene	153	9.237	9.243	-0.006	94	16788	5.00	5.10	
153 2,4-Dinitrophenol	184	9.296	9.296	0.000	83	2727	10.0	11.3	
154 4-Nitrophenol	109	9.398	9.408	-0.010	92	5216	10.0	10.6	
155 Dibenzofuran	168	9.446	9.446	0.000	95	24303	5.00	5.19	
156 2,4-Dinitrotoluene	165	9.446	9.451	-0.005	28	5300	5.00	4.46	
158 2,3,4,6-Tetrachlorophenol	232	9.601	9.600	0.001	69	4064	5.00	5.33	
161 Diethyl phthalate	149	9.745	9.750	-0.005	96	18728	5.00	4.81	
256 Hexadecane	57	9.788	9.793	-0.005	68	15642	5.00	4.74	
162 Fluorene	166	9.836	9.841	-0.005	94	18560	5.00	4.96	
163 4-Chlorophenyl phenyl ethe	204	9.852	9.857	-0.005	93	9981	5.00	5.20	
164 4-Nitroaniline	138	9.868	9.878	-0.010	73	3594	5.00	4.94	
165 4,6-Dinitro-2-methylphenol	198	9.911	9.921	-0.011	73	5461	10.0	10.8	
168 N-Nitrosodiphenylamine	169	9.985	9.990	-0.005	62	14133	5.00	4.88	
169 Diphenylamine	169	9.985	9.990	-0.005	95	14133	4.28	4.17	
170 1,2-Diphenylhydrazine	77	10.028	10.028	0.000	96	23449	5.00	4.98	
171 Azobenzene	77	10.028	10.028	0.000	98	23449	5.00	4.94	
175 4-Bromophenyl phenyl ether	248	10.381	10.386	-0.005	69	5879	5.00	4.93	
179 Hexachlorobenzene	284	10.445	10.445	0.000	90	6093	5.00	5.00	
180 Atrazine	200	10.573	10.578	-0.005	87	4856	5.00	4.34	
183 Pentachlorophenol	266	10.653	10.658	-0.005	85	4187	10.0	10.9	
265 n-Octadecane	57	10.776	10.781	-0.005	86	15818	5.00	5.06	
188 Phenanthrene	178	10.851	10.856	-0.005	98	26949	5.00	4.95	
189 Anthracene	178	10.904	10.904	0.000	98	27485	5.00	4.84	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.070	11.075	-0.005	96	22406	5.00	4.63	
195 Di-n-butyl phthalate	149	11.433	11.433	0.000	99	28569	5.00	5.22	
201 Fluoranthene	202	11.973	11.978	-0.005	97	28806	5.00	4.66	
202 Benzidine	184	12.101	12.106	-0.005	99	18072	5.00	4.49	
204 Pyrene	202	12.170	12.175	-0.005	97	29654	5.00	4.64	
210 Butyl benzyl phthalate	149	12.747	12.747	0.000	97	11476	5.00	5.23	
215 3,3'-Dichlorobenzidine	252	13.185	13.185	0.000	74	9273	5.00	5.12	
217 Benzo[a]anthracene	228	13.207	13.206	0.001	97	30031	5.00	4.79	
216 Bis(2-ethylhexyl) phthalat	149	13.233	13.233	0.000	77	16877	5.00	5.28	
218 Chrysene	228	13.233	13.239	-0.006	95	31153	5.00	5.21	
220 Di-n-octyl phthalate	149	13.752	13.751	0.001	74	27389	5.00	5.26	
221 Benzo[b]fluoranthene	252	14.067	14.072	-0.005	95	28106	5.00	4.58	
222 Benzo[k]fluoranthene	252	14.088	14.093	-0.005	98	32473	5.00	5.44	
225 Benzo[a]pyrene	252	14.318	14.323	-0.005	76	26538	5.00	4.75	
227 Indeno[1,2,3-cd]pyrene	276	15.247	15.253	-0.006	98	30726	5.00	4.64	
228 Dibenz(a,h)anthracene	278	15.253	15.258	-0.005	90	24575	5.00	4.45	
229 Benzo[g,h,i]perylene	276	15.493	15.504	-0.011	98	27095	5.00	4.73	
S 232 Total Cresols	1				0			9.59	
S 233 3-Methylphenol	1				0			4.94	
S 234 3 & 4 Methylphenol	108				0			4.94	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00474	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

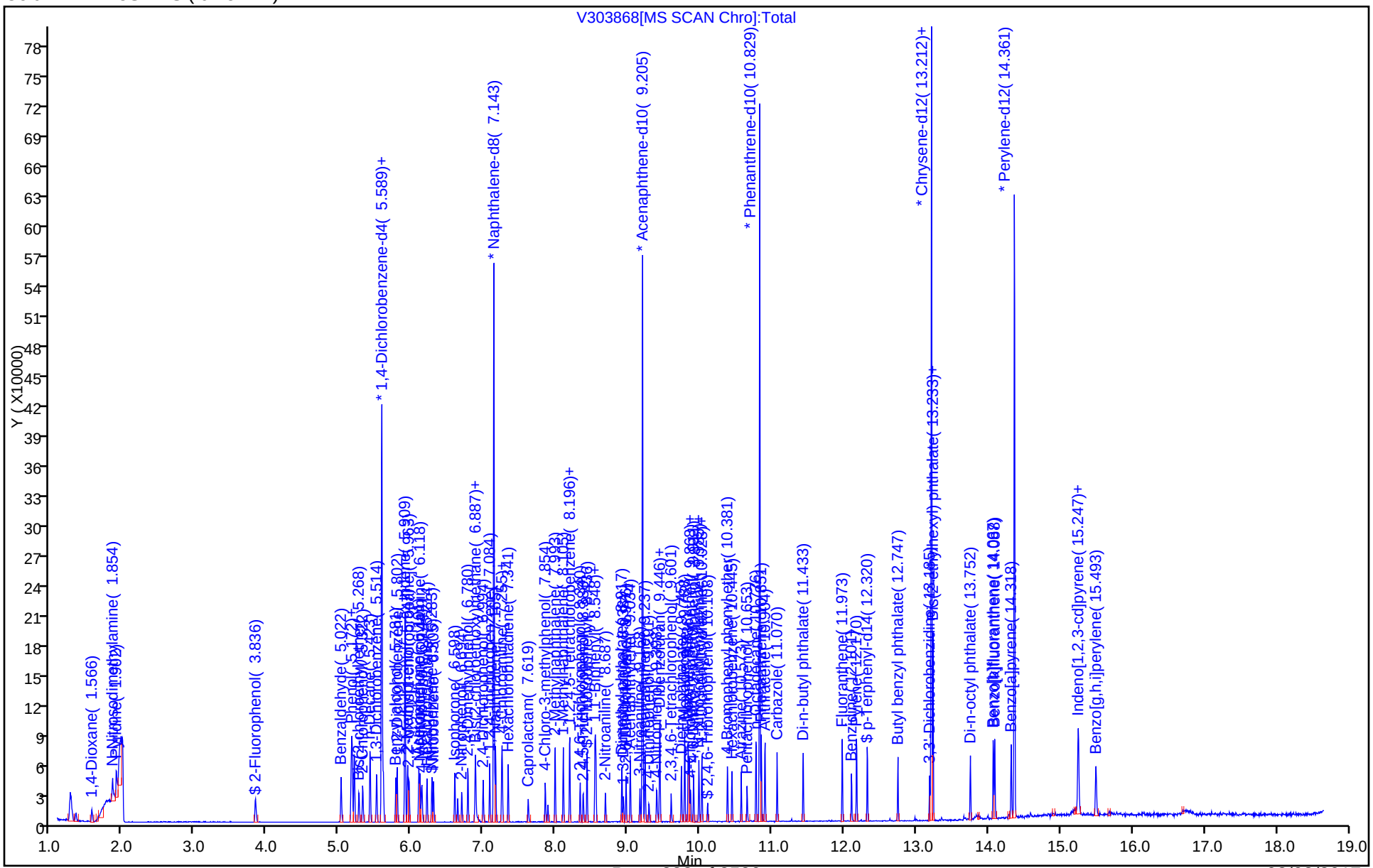
Report Date: 07-Jul-2017 09:32:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303868.D

Injection Date:	06-Jul-2017 15:08:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	IC L1 5			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

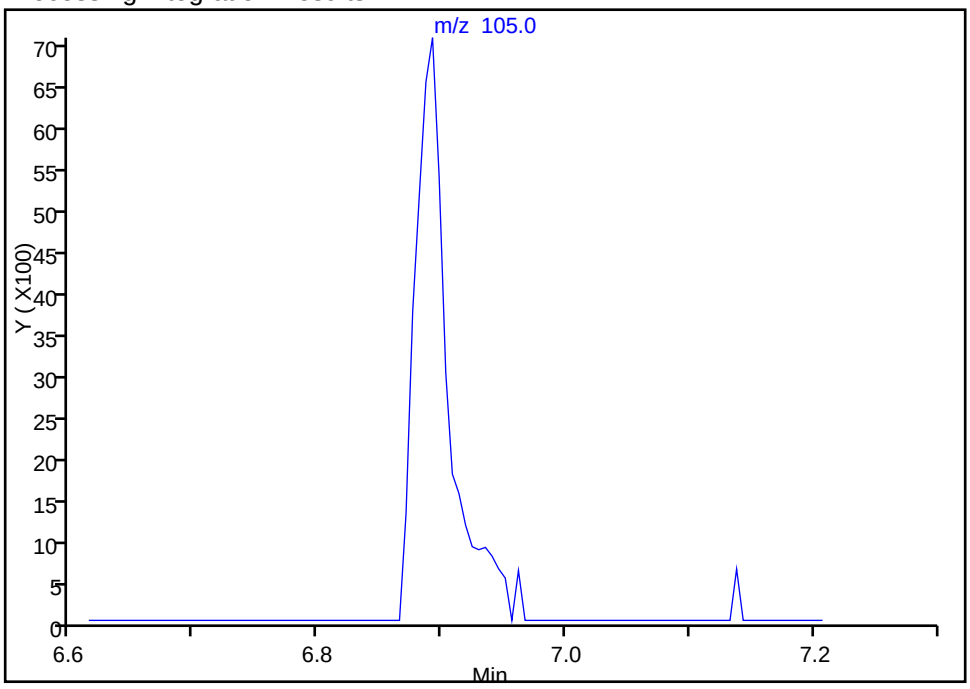
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303868.D
Injection Date: 06-Jul-2017 15:08:30 Instrument ID: HP5973V
Lims ID: IC L1 5
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

115 Benzoic acid, CAS: 65-85-0

Signal: 1

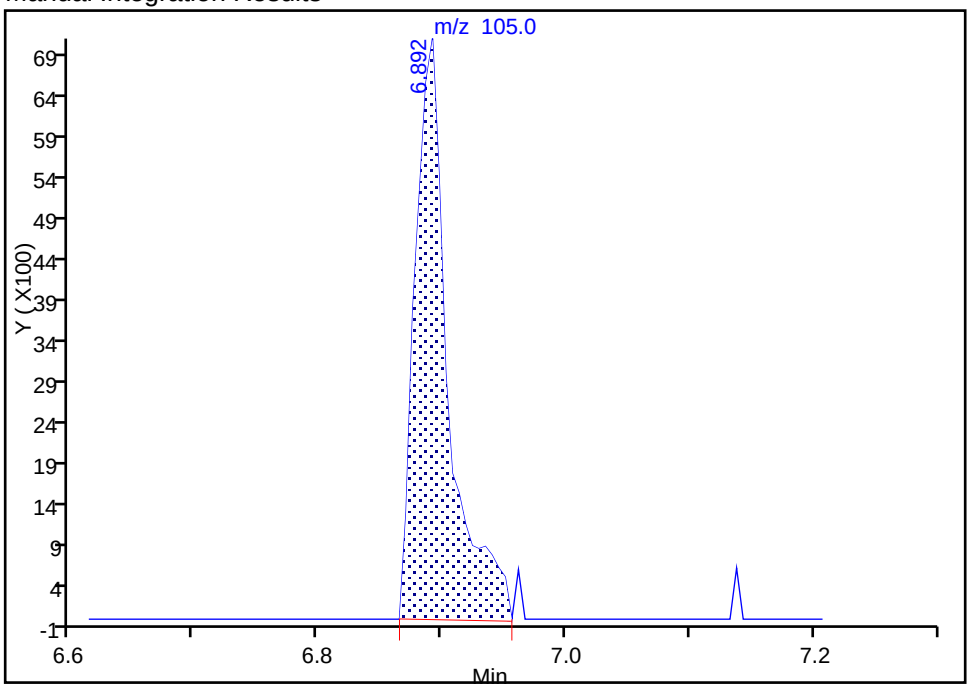
Not Detected
Expected RT: 6.99

Processing Integration Results



Manual Integration Results

RT: 6.89
Area: 13257
Amount: 16.474107
Amount Units: ng/uL



Reviewer: quirkp, 07-Jul-2017 09:00:12
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303869.D
Lims ID: IC L1 20
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Jul-2017 15:34:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0063851-004
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 07-Jul-2017 09:32:30 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quirkp Date: 07-Jul-2017 09:01:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.589	5.588	0.001	95	55745	40.0	40.0	
* 2 Naphthalene-d8	136	7.143	7.143	0.000	99	195118	40.0	40.0	
* 3 Acenaphthene-d10	164	9.205	9.205	0.000	98	95844	40.0	40.0	
* 4 Phenanthrene-d10	188	10.829	10.829	0.000	97	192869	40.0	40.0	
* 5 Chrysene-d12	240	13.212	13.217	-0.005	97	211757	40.0	40.0	
* 6 Perylene-d12	264	14.366	14.366	0.000	99	220449	40.0	40.0	
$ 7 2-Fluorophenol	112	3.847	3.831	0.016	95	36369	20.0	18.9	
$ 8 Phenol-d5	99	5.167	5.161	0.005	95	48374	20.0	19.6	
$ 9 Nitrobenzene-d5	82	6.283	6.283	0.000	94	47192	20.0	19.5	
$ 10 2-Fluorobiphenyl	172	8.436	8.436	0.000	99	82100	20.0	20.3	
$ 11 2,4,6-Tribromophenol	330	10.108	10.108	0.000	90	10780	20.0	19.2	
$ 12 p-Terphenyl-d14	244	12.320	12.325	-0.005	98	85891	20.0	19.6	
68 1,4-Dioxane	88	1.571	1.560	0.011	98	18424	20.0	19.5	
69 N-Nitrosodimethylamine	42	1.860	1.844	0.016	88	29620	20.0	20.0	
70 Pyridine	52	1.902	1.886	0.016	79	47546	20.0	19.8	
80 Benzaldehyde	77	5.028	5.017	0.011	89	34917	20.0	19.4	
82 Aniline	93	5.172	5.172	0.000	94	63430	20.0	19.7	
81 Phenol	94	5.183	5.177	0.006	93	54720	20.0	19.7	
83 Bis(2-chloroethyl)ether	93	5.273	5.268	0.005	91	38112	20.0	19.2	
84 2-Chlorophenol	128	5.327	5.321	0.006	94	37397	20.0	19.7	
263 n-Decane	57	5.428	5.428	0.000	94	59526	20.0	19.5	
87 1,3-Dichlorobenzene	146	5.519	5.514	0.005	95	44088	20.0	19.7	
88 1,4-Dichlorobenzene	146	5.615	5.610	0.005	92	43119	20.0	19.1	
90 Benzyl alcohol	108	5.786	5.786	0.000	87	26016	20.0	19.4	
91 1,2-Dichlorobenzene	146	5.802	5.802	0.000	95	42520	20.0	19.8	
248 Indene	115	5.914	5.914	0.000	97	204340	60.0	59.5	
92 2-Methylphenol	108	5.946	5.946	0.000	96	37611	20.0	20.6	
93 2,2'-oxybis[1-chloropropan	45	5.968	5.968	0.000	90	75530	20.0	19.7	
94 Acetophenone	105	6.101	6.101	0.000	93	56720	20.0	20.0	
95 N-Nitrosodi-n-propylamine	70	6.117	6.117	0.000	91	32030	20.0	20.3	
96 4-Methylphenol	108	6.144	6.144	0.000	92	36951	20.0	19.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.214	6.213	0.001	92	16939	20.0	19.4	
102 Nitrobenzene	77	6.304	6.304	0.000	94	45623	20.0	19.2	
106 Isophorone	82	6.604	6.603	0.001	98	78939	20.0	19.7	
107 2-Nitrophenol	139	6.694	6.694	0.000	88	17617	20.0	19.5	
108 2,4-Dimethylphenol	107	6.780	6.785	-0.005	98	39097	20.0	18.8	
111 Bis(2-chloroethoxy)methane	93	6.887	6.887	0.000	94	43757	20.0	19.9	
114 2,4-Dichlorophenol	162	6.994	6.993	0.001	97	30446	20.0	19.6	
115 Benzoic acid	105	6.935	6.993	-0.058	92	73992	60.0	55.2	
117 1,2,4-Trichlorobenzene	180	7.084	7.084	0.000	92	35279	20.0	20.5	
118 Naphthalene	128	7.170	7.170	0.000	98	103984	20.0	19.8	
119 4-Chloroaniline	127	7.250	7.255	-0.005	93	41524	20.0	19.3	
122 2,6-Dichlorophenol	162	7.261	7.261	0.000	92	30114	20.0	19.7	
121 Hexachlorobutadiene	225	7.341	7.341	0.000	95	24292	20.0	19.4	
124 Caprolactam	113	7.635	7.667	-0.032	72	8976	20.0	18.9	
129 4-Chloro-3-methylphenol	107	7.854	7.859	-0.005	93	33338	20.0	19.8	
131 2-Methylnaphthalene	142	7.993	7.992	0.001	91	65929	20.0	20.2	
251 1-Methylnaphthalene	142	8.105	8.105	0.000	96	59948	20.0	20.1	
135 1,2,4,5-Tetrachlorobenzene	216	8.196	8.195	0.001	98	35100	20.0	20.1	
134 Hexachlorocyclopentadiene	237	8.196	8.195	0.001	95	24713	20.0	19.2	
137 2,4,6-Trichlorophenol	196	8.340	8.340	0.000	95	21963	20.0	19.7	
138 2,4,5-Trichlorophenol	196	8.383	8.382	0.001	92	23393	20.0	20.1	
140 1,1'-Biphenyl	154	8.548	8.548	0.000	96	80258	20.0	20.2	
141 2-Chloronaphthalene	162	8.559	8.559	0.000	99	65197	20.0	20.5	
143 2-Nitroaniline	65	8.687	8.692	-0.005	75	24256	20.0	19.8	
146 Dimethyl phthalate	163	8.922	8.922	0.000	97	71406	20.0	19.6	
148 1,3-Dinitrobenzene	168	8.938	8.943	-0.005	82	11314	20.0	19.3	
149 2,6-Dinitrotoluene	165	8.976	8.981	-0.005	84	16231	20.0	19.4	
150 Acenaphthylene	152	9.034	9.034	0.000	98	91352	20.0	20.0	
151 3-Nitroaniline	138	9.168	9.173	-0.005	85	17615	20.0	20.9	
152 Acenaphthene	153	9.243	9.243	0.000	95	61519	20.0	20.1	
153 2,4-Dinitrophenol	184	9.291	9.296	-0.005	81	17961	40.0	36.0	
154 4-Nitrophenol	109	9.398	9.408	-0.010	94	26374	40.0	37.9	
155 Dibenzofuran	168	9.446	9.446	0.000	95	89026	20.0	20.4	
156 2,4-Dinitrotoluene	165	9.446	9.451	-0.005	82	22649	20.0	20.5	
158 2,3,4,6-Tetrachlorophenol	232	9.601	9.600	0.001	74	17525	20.0	18.7	
161 Diethyl phthalate	149	9.745	9.750	-0.005	96	72399	20.0	20.0	
256 Hexadecane	57	9.788	9.793	-0.005	68	62614	20.0	20.4	
162 Fluorene	166	9.836	9.841	-0.005	95	70804	20.0	20.3	
163 4-Chlorophenyl phenyl ethe	204	9.852	9.857	-0.005	97	35573	20.0	19.9	
164 4-Nitroaniline	138	9.873	9.878	-0.005	77	17005	20.0	20.4	
165 4,6-Dinitro-2-methylphenol	198	9.916	9.921	-0.005	76	25523	40.0	37.1	
169 Diphenylamine	169	9.985	9.990	-0.005	96	54510	17.1	17.1	
168 N-Nitrosodiphenylamine	169	9.985	9.990	-0.005	62	54510	20.0	20.1	
171 Azobenzene	77	10.028	10.028	0.000	98	87106	20.0	19.5	
170 1,2-Diphenylhydrazine	77	10.028	10.028	0.000	96	87106	20.0	19.9	
175 4-Bromophenyl phenyl ether	248	10.381	10.386	-0.005	71	21887	20.0	19.6	
179 Hexachlorobenzene	284	10.445	10.445	0.000	91	23314	20.0	19.9	
180 Atrazine	200	10.578	10.578	0.000	89	22179	20.0	21.3	
183 Pentachlorophenol	266	10.653	10.658	-0.005	91	23821	40.0	36.4	
265 n-Octadecane	57	10.776	10.781	-0.005	90	58114	20.0	19.2	
188 Phenanthrene	178	10.851	10.856	-0.005	98	103109	20.0	20.2	
189 Anthracene	178	10.904	10.904	0.000	98	106399	20.0	20.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.070	11.075	-0.005	96	91741	20.0	20.2	
195 Di-n-butyl phthalate	149	11.433	11.433	0.000	100	112396	20.0	19.1	
201 Fluoranthene	202	11.973	11.978	-0.005	97	114945	20.0	19.8	
202 Benzidine	184	12.101	12.106	-0.005	99	74465	20.0	19.0	
204 Pyrene	202	12.176	12.175	0.001	98	127610	20.0	20.5	
210 Butyl benzyl phthalate	149	12.747	12.747	0.000	99	49485	20.0	19.0	
215 3,3'-Dichlorobenzidine	252	13.185	13.185	0.000	74	40802	20.0	19.4	
217 Benzo[a]anthracene	228	13.207	13.206	0.001	97	121079	20.0	19.8	
216 Bis(2-ethylhexyl) phthalat	149	13.233	13.233	0.000	86	70812	20.0	18.9	
218 Chrysene	228	13.233	13.239	-0.006	97	118154	20.0	20.3	
220 Di-n-octyl phthalate	149	13.751	13.751	0.000	99	120105	20.0	19.2	M
221 Benzo[b]fluoranthene	252	14.072	14.072	0.000	95	129007	20.0	20.2	
222 Benzo[k]fluoranthene	252	14.088	14.093	-0.005	99	120220	20.0	19.4	
225 Benzo[a]pyrene	252	14.318	14.323	-0.005	76	113217	20.0	19.5	
227 Indeno[1,2,3-cd]pyrene	276	15.247	15.253	-0.006	98	127546	20.0	18.5	
228 Dibenz(a,h)anthracene	278	15.253	15.258	-0.005	91	112782	20.0	19.6	
229 Benzo[g,h,i]perylene	276	15.493	15.504	-0.011	97	110480	20.0	18.6	
S 232 Total Cresols	1				0			40.1	
S 234 3 & 4 Methylphenol	108				0			19.5	
S 233 3-Methylphenol	1				0			19.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00475	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

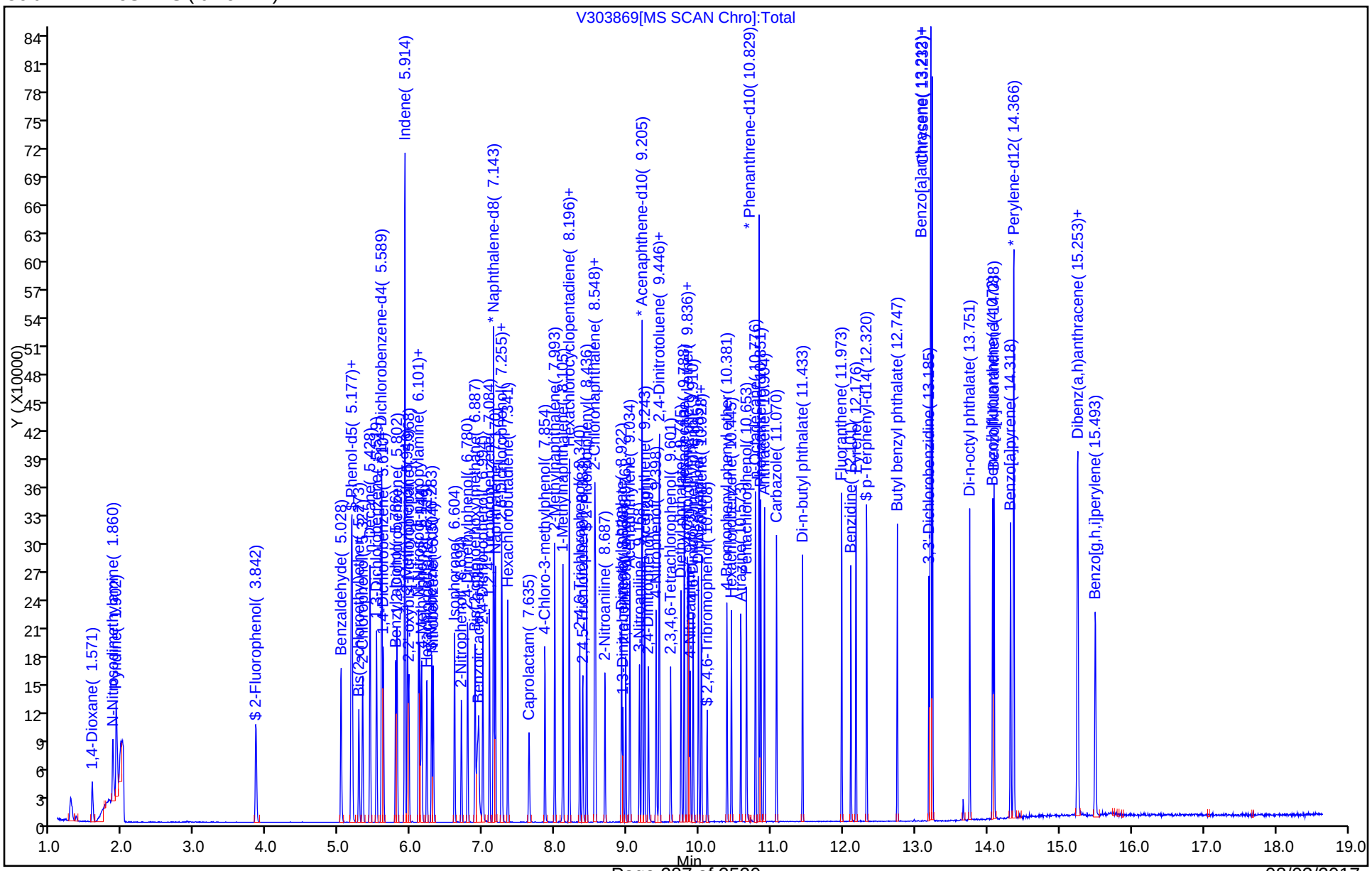
Report Date: 07-Jul-2017 09:32:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303869.D

Injection Date:	06-Jul-2017 15:34:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	IC L1 20			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

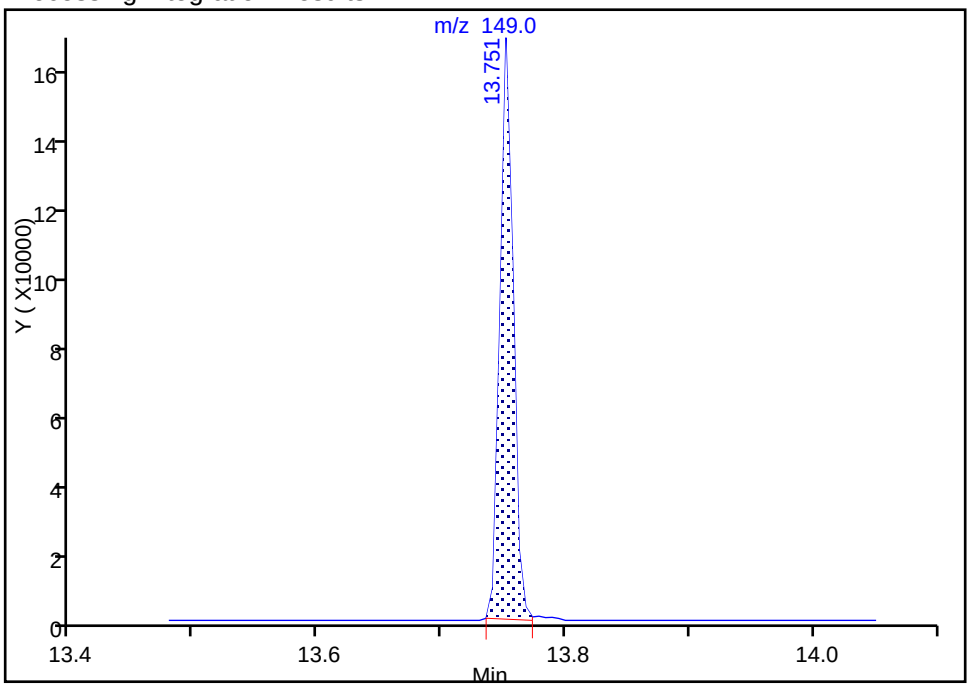
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303869.D
Injection Date: 06-Jul-2017 15:34:30 Instrument ID: HP5973V
Lims ID: IC L1 20
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

220 Di-n-octyl phthalate, CAS: 117-84-0

Signal: 1

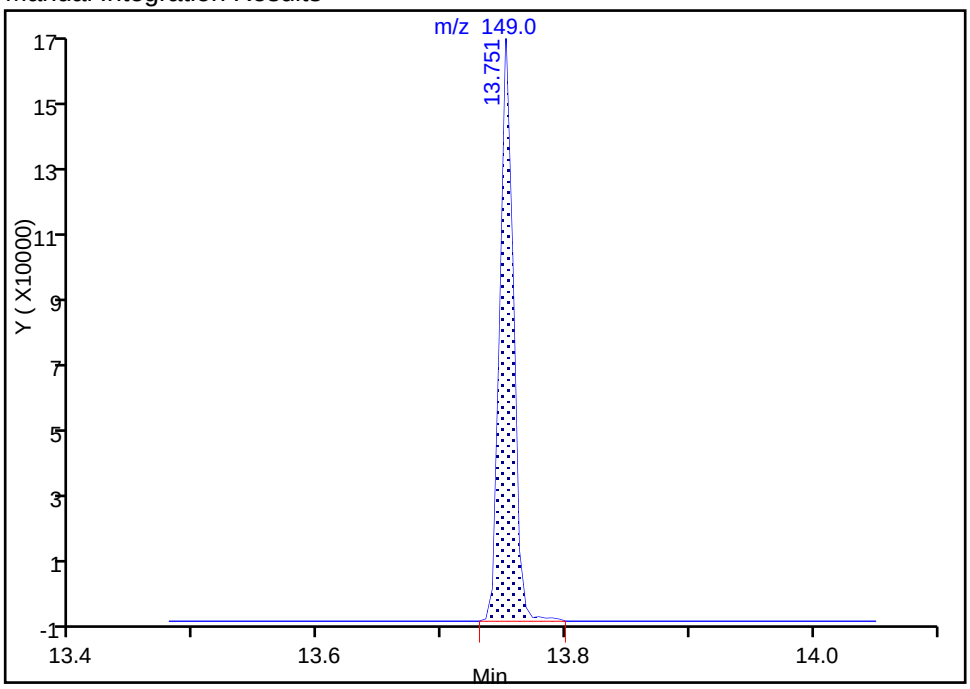
Processing Integration Results

RT: 13.75
Area: 118286
Amount: 18.978931
Amount Units: ng/uL



Manual Integration Results

RT: 13.75
Area: 120105
Amount: 19.205326
Amount Units: ng/uL



Reviewer: quirkp, 07-Jul-2017 09:01:52
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303870.D
Lims ID: ICIS L1 50
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 06-Jul-2017 16:00:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0063851-005
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 07-Jul-2017 09:32:38 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quirkp Date: 07-Jul-2017 08:59:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.588	5.588	0.000	96	59883	40.0	40.0	
* 2 Naphthalene-d8	136	7.143	7.143	0.000	99	212670	40.0	40.0	
* 3 Acenaphthene-d10	164	9.205	9.205	0.000	95	103122	40.0	40.0	
* 4 Phenanthrene-d10	188	10.829	10.829	0.000	97	201662	40.0	40.0	
* 5 Chrysene-d12	240	13.217	13.217	0.000	97	207078	40.0	40.0	
* 6 Perylene-d12	264	14.366	14.366	0.000	99	207879	40.0	40.0	
$ 7 2-Fluorophenol	112	3.831	3.831	0.000	95	111984	50.0	54.3	
$ 8 Phenol-d5	99	5.161	5.161	0.000	93	134346	50.0	50.7	
$ 9 Nitrobenzene-d5	82	6.283	6.283	0.000	94	132442	50.0	50.1	
$ 10 2-Fluorobiphenyl	172	8.436	8.436	0.000	100	216091	50.0	49.7	
$ 11 2,4,6-Tribromophenol	330	10.108	10.108	0.000	91	31247	50.0	50.2	
$ 12 p-Terphenyl-d14	244	12.325	12.325	0.000	98	222174	50.0	51.9	
68 1,4-Dioxane	88	1.560	1.560	0.000	95	51976	50.0	51.2	
69 N-Nitrosodimethylamine	42	1.844	1.844	0.000	89	77061	50.0	48.5	
70 Pyridine	52	1.886	1.886	0.000	80	130967	50.0	50.9	
80 Benzaldehyde	77	5.017	5.017	0.000	92	100152	50.0	51.7	
82 Aniline	93	5.172	5.172	0.000	92	176498	50.0	51.0	
81 Phenol	94	5.177	5.177	0.000	94	151427	50.0	50.8	
83 Bis(2-chloroethyl)ether	93	5.268	5.268	0.000	91	107547	50.0	50.4	
84 2-Chlorophenol	128	5.321	5.321	0.000	94	104744	50.0	51.2	
263 n-Decane	57	5.428	5.428	0.000	93	169115	50.0	51.6	
87 1,3-Dichlorobenzene	146	5.514	5.514	0.000	95	123035	50.0	51.2	
88 1,4-Dichlorobenzene	146	5.610	5.610	0.000	91	125266	50.0	51.8	
90 Benzyl alcohol	108	5.786	5.786	0.000	89	76003	50.0	52.8	
91 1,2-Dichlorobenzene	146	5.802	5.802	0.000	95	117057	50.0	50.7	
248 Indene	115	5.914	5.914	0.000	97	559416	150.0	149.5	
92 2-Methylphenol	108	5.946	5.946	0.000	97	99673	50.0	50.8	
93 2,2'-oxybis[1-chloropropan	45	5.968	5.968	0.000	91	208442	50.0	50.7	
94 Acetophenone	105	6.101	6.101	0.000	90	154107	50.0	50.7	
95 N-Nitrosodi-n-propylamine	70	6.117	6.117	0.000	91	86577	50.0	51.1	
96 4-Methylphenol	108	6.144	6.144	0.000	95	104699	50.0	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.213	6.213	0.000	94	48572	50.0	51.8	
102 Nitrobenzene	77	6.304	6.304	0.000	94	132376	50.0	51.0	
106 Isophorone	82	6.603	6.603	0.000	98	223308	50.0	51.1	
107 2-Nitrophenol	139	6.694	6.694	0.000	88	50386	50.0	48.7	
108 2,4-Dimethylphenol	107	6.785	6.785	0.000	99	115236	50.0	50.9	
111 Bis(2-chloroethoxy)methane	93	6.887	6.887	0.000	94	116149	50.0	48.5	
115 Benzoic acid	105	6.993	6.993	0.000	92	231621	150.0	142.1	
114 2,4-Dichlorophenol	162	6.993	6.993	0.000	97	85874	50.0	50.7	
117 1,2,4-Trichlorobenzene	180	7.084	7.084	0.000	93	94281	50.0	50.2	
118 Naphthalene	128	7.170	7.170	0.000	98	285342	50.0	50.0	
119 4-Chloroaniline	127	7.255	7.255	0.000	91	116719	50.0	49.9	
122 2,6-Dichlorophenol	162	7.261	7.261	0.000	88	83081	50.0	49.9	
121 Hexachlorobutadiene	225	7.341	7.341	0.000	95	68852	50.0	50.4	
124 Caprolactam	113	7.667	7.667	0.000	72	25811	50.0	46.8	
129 4-Chloro-3-methylphenol	107	7.859	7.859	0.000	93	91896	50.0	48.8	
131 2-Methylnaphthalene	142	7.992	7.992	0.000	90	176607	50.0	49.7	
251 1-Methylnaphthalene	142	8.105	8.105	0.000	97	161463	50.0	49.7	
134 Hexachlorocyclopentadiene	237	8.195	8.195	0.000	96	73936	50.0	51.0	
135 1,2,4,5-Tetrachlorobenzene	216	8.195	8.195	0.000	98	96719	50.0	51.5	
137 2,4,6-Trichlorophenol	196	8.340	8.340	0.000	95	62854	50.0	50.3	
138 2,4,5-Trichlorophenol	196	8.382	8.382	0.000	94	66931	50.0	51.6	
140 1,1'-Biphenyl	154	8.548	8.548	0.000	97	216694	50.0	50.8	
141 2-Chloronaphthalene	162	8.559	8.559	0.000	99	174653	50.0	51.0	
143 2-Nitroaniline	65	8.692	8.692	0.000	76	68499	50.0	49.8	
146 Dimethyl phthalate	163	8.922	8.922	0.000	97	196035	50.0	50.0	
148 1,3-Dinitrobenzene	168	8.943	8.943	0.000	81	30903	50.0	46.4	
149 2,6-Dinitrotoluene	165	8.981	8.981	0.000	85	44978	50.0	50.1	
150 Acenaphthylene	152	9.034	9.034	0.000	98	251428	50.0	51.1	
151 3-Nitroaniline	138	9.173	9.173	0.000	88	46028	50.0	48.8	
152 Acenaphthene	153	9.243	9.243	0.000	95	164198	50.0	49.8	
153 2,4-Dinitrophenol	184	9.296	9.296	0.000	84	58810	100.0	94.8	
154 4-Nitrophenol	109	9.408	9.408	0.000	93	79119	100.0	97.5	
155 Dibenzofuran	168	9.446	9.446	0.000	96	233735	50.0	49.9	
156 2,4-Dinitrotoluene	165	9.451	9.451	0.000	87	59805	50.0	50.2	
158 2,3,4,6-Tetrachlorophenol	232	9.600	9.600	0.000	75	53104	50.0	49.8	
161 Diethyl phthalate	149	9.750	9.750	0.000	96	200188	50.0	51.3	
256 Hexadecane	57	9.793	9.793	0.000	68	171341	50.0	51.9	
162 Fluorene	166	9.841	9.841	0.000	94	186686	50.0	49.8	
163 4-Chlorophenyl phenyl ethe	204	9.857	9.857	0.000	97	95473	50.0	49.6	
164 4-Nitroaniline	138	9.878	9.878	0.000	75	46126	50.0	49.6	
165 4,6-Dinitro-2-methylphenol	198	9.921	9.921	0.000	81	76094	100.0	98.2	
168 N-Nitrosodiphenylamine	169	9.990	9.990	0.000	64	143751	50.0	50.6	
169 Diphenylamine	169	9.990	9.990	0.000	94	143751	42.8	43.2	
170 1,2-Diphenylhydrazine	77	10.028	10.028	0.000	95	236826	50.0	50.2	
171 Azobenzene	77	10.028	10.028	0.000	98	236826	50.0	50.8	
175 4-Bromophenyl phenyl ether	248	10.386	10.386	0.000	73	59242	50.0	50.6	
179 Hexachlorobenzene	284	10.445	10.445	0.000	93	61765	50.0	50.2	
180 Atrazine	200	10.578	10.578	0.000	89	55690	50.0	49.7	
183 Pentachlorophenol	266	10.658	10.658	0.000	92	75128	100.0	98.0	
265 n-Octadecane	57	10.781	10.781	0.000	89	167000	50.0	52.3	
188 Phenanthrene	178	10.856	10.856	0.000	98	266392	50.0	49.8	
189 Anthracene	178	10.904	10.904	0.000	98	282962	50.0	50.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.075	11.075	0.000	97	240186	50.0	50.6	
195 Di-n-butyl phthalate	149	11.433	11.433	0.000	100	312386	50.0	49.4	
201 Fluoranthene	202	11.978	11.978	0.000	97	309871	50.0	51.2	
202 Benzidine	184	12.106	12.106	0.000	99	199790	50.0	52.1	
204 Pyrene	202	12.175	12.175	0.000	98	322638	50.0	53.0	
210 Butyl benzyl phthalate	149	12.747	12.747	0.000	98	132672	50.0	50.0	
215 3,3'-Dichlorobenzidine	252	13.185	13.185	0.000	74	106673	50.0	50.2	
217 Benzo[a]anthracene	228	13.206	13.206	0.000	97	306033	50.0	51.2	
216 Bis(2-ethylhexyl) phthalat	149	13.233	13.233	0.000	97	190154	50.0	49.8	
218 Chrysene	228	13.239	13.239	0.000	96	283604	50.0	49.8	
220 Di-n-octyl phthalate	149	13.751	13.751	0.000	99	310694	50.0	48.7	
221 Benzo[b]fluoranthene	252	14.072	14.072	0.000	96	294246	50.0	48.9	
222 Benzo[k]fluoranthene	252	14.093	14.093	0.000	98	299265	50.0	51.1	
225 Benzo[a]pyrene	252	14.323	14.323	0.000	76	281190	50.0	51.3	
227 Indeno[1,2,3-cd]pyrene	276	15.253	15.253	0.000	98	331121	50.0	51.0	
228 Dibenz(a,h)anthracene	278	15.258	15.258	0.000	90	273791	50.0	50.5	
229 Benzo[g,h,i]perylene	276	15.504	15.504	0.000	98	285966	50.0	51.0	

Reagents:

MB_LIST1_WRK_00476	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

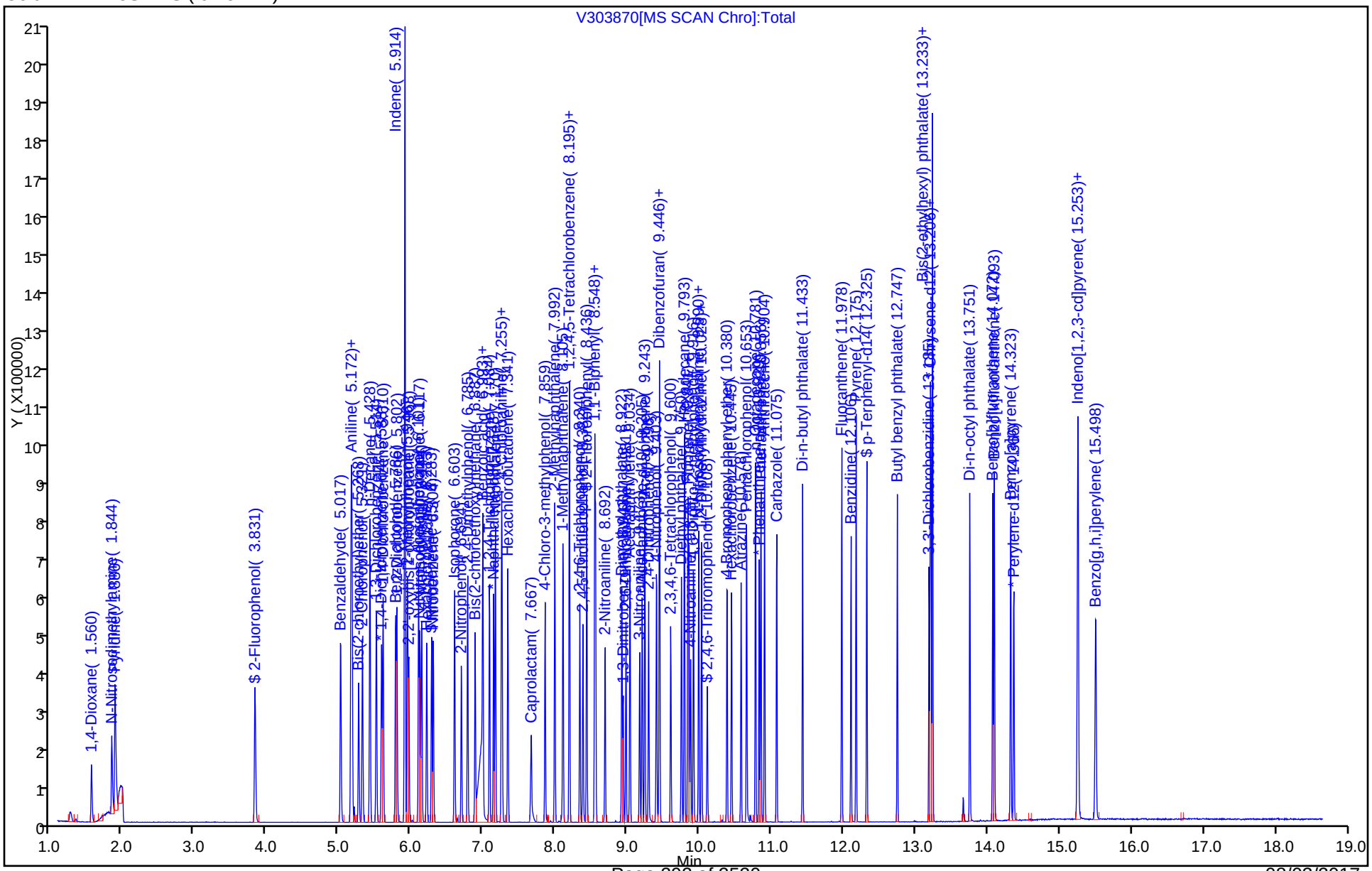
Report Date: 07-Jul-2017 09:32:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303870.D

Injection Date:	06-Jul-2017 16:00:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	ICIS L1 50			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303871.D
Lims ID: IC L1 80
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Jul-2017 16:26:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0063851-006
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 07-Jul-2017 09:32:45 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quirkp Date: 07-Jul-2017 09:03:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.589	5.588	0.001	95	56237	40.0	40.0	
* 2 Naphthalene-d8	136	7.143	7.143	0.000	99	197659	40.0	40.0	
* 3 Acenaphthene-d10	164	9.205	9.205	0.000	97	99068	40.0	40.0	
* 4 Phenanthrene-d10	188	10.835	10.829	0.006	97	197182	40.0	40.0	
* 5 Chrysene-d12	240	13.217	13.217	0.000	97	212970	40.0	40.0	
* 6 Perylene-d12	264	14.366	14.366	0.000	99	216814	40.0	40.0	
$ 7 2-Fluorophenol	112	3.842	3.831	0.011	96	159525	80.0	82.3	
$ 8 Phenol-d5	99	5.167	5.161	0.006	93	203034	80.0	81.6	
$ 9 Nitrobenzene-d5	82	6.283	6.283	0.000	95	201883	80.0	82.2	
$ 10 2-Fluorobiphenyl	172	8.436	8.436	0.000	100	328536	80.0	78.6	
$ 11 2,4,6-Tribromophenol	330	10.114	10.108	0.006	93	49122	80.0	79.6	
$ 12 p-Terphenyl-d14	244	12.325	12.325	0.000	98	349792	80.0	79.4	
68 1,4-Dioxane	88	1.566	1.560	0.006	94	76955	80.0	80.7	
69 N-Nitrosodimethylamine	42	1.854	1.844	0.010	86	121232	80.0	81.2	
70 Pyridine	52	1.897	1.886	0.011	80	199680	80.0	82.6	
80 Benzaldehyde	77	5.022	5.017	0.005	91	152958	80.0	84.0	
82 Aniline	93	5.177	5.172	0.005	88	266018	80.0	81.8	
81 Phenol	94	5.183	5.177	0.006	95	225283	80.0	80.5	
83 Bis(2-chloroethyl)ether	93	5.273	5.268	0.005	92	162882	80.0	81.2	
84 2-Chlorophenol	128	5.327	5.321	0.006	93	158157	80.0	82.4	
263 n-Decane	57	5.428	5.428	0.000	93	249934	80.0	81.2	
87 1,3-Dichlorobenzene	146	5.519	5.514	0.005	95	181322	80.0	80.4	
88 1,4-Dichlorobenzene	146	5.610	5.610	0.000	91	186604	80.0	82.1	
90 Benzyl alcohol	108	5.786	5.786	0.000	88	109883	80.0	81.3	
91 1,2-Dichlorobenzene	146	5.802	5.802	0.000	94	173356	80.0	79.9	
248 Indene	115	5.915	5.914	0.001	96	845308	240.0	243.0	
92 2-Methylphenol	108	5.952	5.946	0.006	97	152513	80.0	82.8	
93 2,2'-oxybis[1-chloropropan	45	5.968	5.968	0.000	91	311092	80.0	80.6	
94 Acetophenone	105	6.107	6.101	0.006	91	230341	80.0	80.6	
95 N-Nitrosodi-n-propylamine	70	6.123	6.117	0.006	91	127607	80.0	80.2	
96 4-Methylphenol	108	6.150	6.144	0.006	90	158602	80.0	82.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.219	6.213	0.006	91	71673	80.0	81.4	
102 Nitrobenzene	77	6.310	6.304	0.006	94	199449	80.0	82.7	
106 Isophorone	82	6.604	6.603	0.001	98	332862	80.0	82.0	
107 2-Nitrophenol	139	6.700	6.694	0.006	90	78820	80.0	80.9	
108 2,4-Dimethylphenol	107	6.785	6.785	0.000	98	171526	80.0	81.5	
111 Bis(2-chloroethoxy)methane	93	6.887	6.887	0.000	94	177358	80.0	79.7	
114 2,4-Dichlorophenol	162	6.999	6.993	0.006	96	126024	80.0	80.0	
115 Benzoic acid	105	7.026	6.993	0.033	92	370094	240.0	238.0	
117 1,2,4-Trichlorobenzene	180	7.090	7.084	0.006	93	140026	80.0	80.3	
118 Naphthalene	128	7.170	7.170	0.000	98	428718	80.0	80.8	
119 4-Chloroaniline	127	7.255	7.255	0.000	93	175757	80.0	80.8	
122 2,6-Dichlorophenol	162	7.266	7.261	0.005	93	125928	80.0	81.4	
121 Hexachlorobutadiene	225	7.341	7.341	0.000	95	102557	80.0	80.8	
124 Caprolactam	113	7.688	7.667	0.021	73	42122	80.0	80.8	M
129 4-Chloro-3-methylphenol	107	7.859	7.859	0.000	93	138737	80.0	78.8	
131 2-Methylnaphthalene	142	7.993	7.992	0.001	90	268839	80.0	81.4	
251 1-Methylnaphthalene	142	8.110	8.105	0.005	97	241974	80.0	80.1	
135 1,2,4,5-Tetrachlorobenzene	216	8.201	8.195	0.006	98	145194	80.0	80.4	
134 Hexachlorocyclopentadiene	237	8.196	8.195	0.001	97	111075	80.0	79.0	
137 2,4,6-Trichlorophenol	196	8.340	8.340	0.000	96	94346	80.0	78.0	
138 2,4,5-Trichlorophenol	196	8.388	8.382	0.006	94	99609	80.0	79.3	
140 1,1'-Biphenyl	154	8.548	8.548	0.000	97	324005	80.0	79.1	
141 2-Chloronaphthalene	162	8.559	8.559	0.000	99	262448	80.0	79.8	
143 2-Nitroaniline	65	8.693	8.692	0.000	76	104898	80.0	78.6	
146 Dimethyl phthalate	163	8.928	8.922	0.006	97	300715	80.0	79.8	
148 1,3-Dinitrobenzene	168	8.944	8.943	0.001	81	50935	80.0	81.3	
149 2,6-Dinitrotoluene	165	8.986	8.981	0.005	85	68205	80.0	79.1	
150 Acenaphthylene	152	9.040	9.034	0.006	98	377429	80.0	79.8	
151 3-Nitroaniline	138	9.173	9.173	0.000	87	74055	80.0	80.9	
152 Acenaphthene	153	9.243	9.243	0.000	95	251333	80.0	79.3	
153 2,4-Dinitrophenol	184	9.302	9.296	0.006	83	97147	160.0	157.8	
154 4-Nitrophenol	109	9.414	9.408	0.006	93	127868	160.0	161.0	
155 Dibenzofuran	168	9.446	9.446	0.000	95	357592	80.0	79.4	
156 2,4-Dinitrotoluene	165	9.451	9.451	0.000	81	94851	80.0	82.9	
158 2,3,4,6-Tetrachlorophenol	232	9.606	9.600	0.006	75	80981	80.0	78.0	
161 Diethyl phthalate	149	9.756	9.750	0.006	96	297917	80.0	79.5	
256 Hexadecane	57	9.793	9.793	0.000	68	252863	80.0	79.7	
162 Fluorene	166	9.841	9.841	0.000	93	287208	80.0	79.8	
163 4-Chlorophenyl phenyl ethe	204	9.857	9.857	0.000	97	145902	80.0	79.0	
164 4-Nitroaniline	138	9.889	9.878	0.011	75	72424	80.0	80.4	
165 4,6-Dinitro-2-methylphenol	198	9.927	9.921	0.006	76	121108	160.0	157.2	
169 Diphenylamine	169	9.991	9.990	0.001	95	220626	68.4	67.9	
168 N-Nitrosodiphenylamine	169	9.991	9.990	0.001	63	220626	80.0	79.4	
171 Azobenzene	77	10.033	10.028	0.005	99	368148	80.0	80.8	
170 1,2-Diphenylhydrazine	77	10.033	10.028	0.005	96	368148	80.0	81.2	
175 4-Bromophenyl phenyl ether	248	10.386	10.386	0.000	71	93502	80.0	81.8	
179 Hexachlorobenzene	284	10.450	10.445	0.005	95	95720	80.0	79.5	
180 Atrazine	200	10.584	10.578	0.006	90	90028	80.0	83.6	
183 Pentachlorophenol	266	10.658	10.658	0.000	91	123232	160.0	160.5	
265 n-Octadecane	57	10.781	10.781	0.000	89	246966	80.0	78.9	
188 Phenanthrene	178	10.856	10.856	0.000	98	418725	80.0	80.1	
189 Anthracene	178	10.910	10.904	0.006	98	434172	80.0	79.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.075	11.075	0.000	97	380870	80.0	82.0	
195 Di-n-butyl phthalate	149	11.433	11.433	0.000	100	495176	80.0	79.6	
201 Fluoranthene	202	11.978	11.978	0.000	97	478751	80.0	80.8	
202 Benzidine	184	12.106	12.106	0.000	99	332334	80.0	84.3	
204 Pyrene	202	12.176	12.175	0.001	98	503911	80.0	80.5	
210 Butyl benzyl phthalate	149	12.747	12.747	0.000	98	218807	80.0	79.4	
215 3,3'-Dichlorobenzidine	252	13.191	13.185	0.006	74	176130	80.0	79.9	
217 Benzo[a]anthracene	228	13.207	13.206	0.001	97	492979	80.0	80.2	
216 Bis(2-ethylhexyl) phthalat	149	13.233	13.233	0.000	97	316662	80.0	79.8	
218 Chrysene	228	13.239	13.239	0.000	96	456679	80.0	78.0	
220 Di-n-octyl phthalate	149	13.757	13.751	0.006	100	529397	80.0	79.8	
221 Benzo[b]fluoranthene	252	14.077	14.072	0.005	96	526685	80.0	83.9	
222 Benzo[k]fluoranthene	252	14.099	14.093	0.006	98	474915	80.0	77.8	
225 Benzo[a]pyrene	252	14.323	14.323	0.000	76	462700	80.0	81.0	
227 Indeno[1,2,3-cd]pyrene	276	15.258	15.253	0.005	98	553019	80.0	81.6	
228 Dibenz(a,h)anthracene	278	15.263	15.258	0.005	88	459395	80.0	81.3	
229 Benzo[g,h,i]perylene	276	15.509	15.504	0.005	97	475824	80.0	81.3	
S 232 Total Cresols	1				0			165.6	
S 234 3 & 4 Methylphenol	108				0			82.8	
S 233 3-Methylphenol	1				0			82.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00477	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

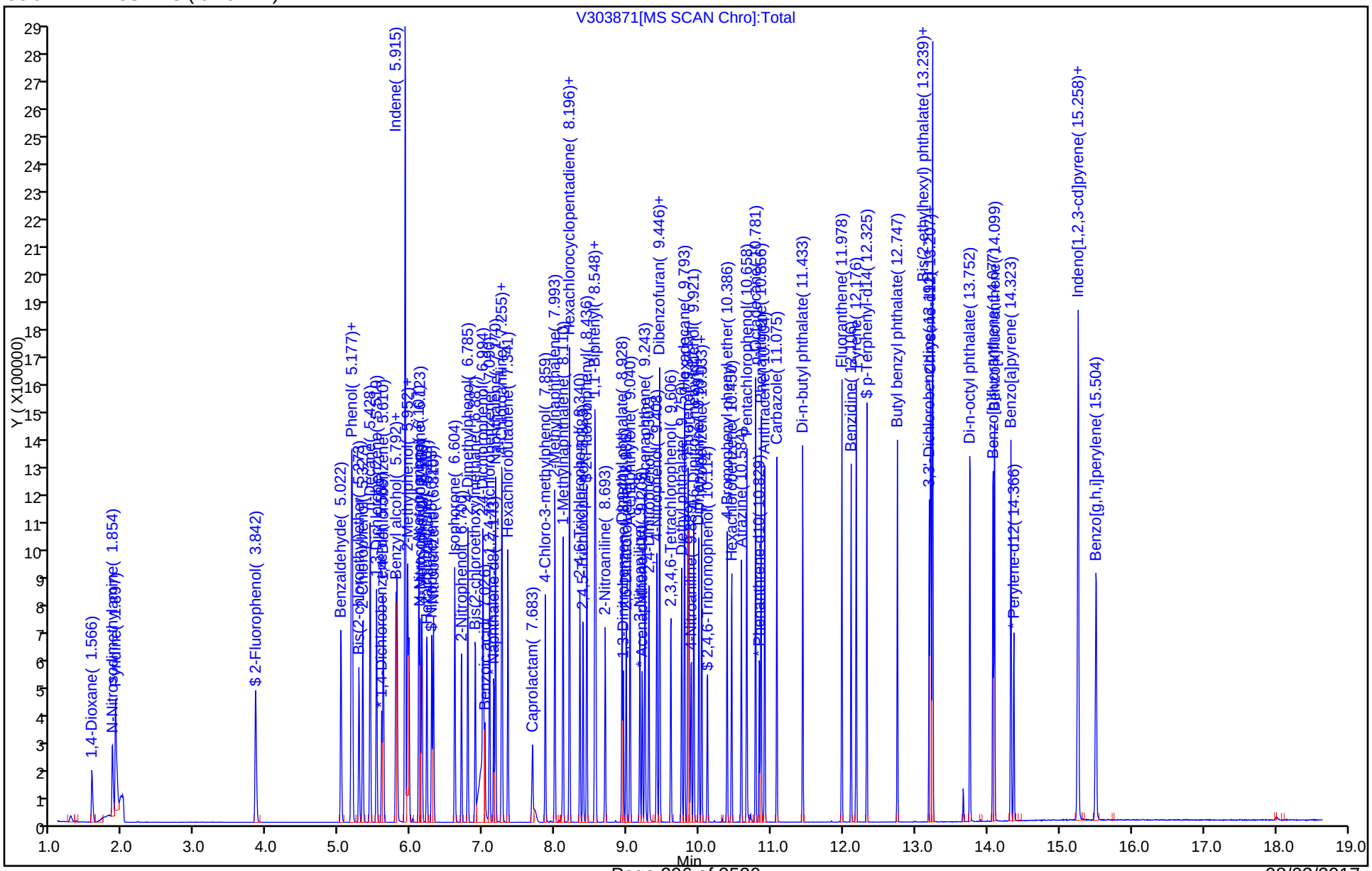
Report Date: 07-Jul-2017 09:32:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303871.D

Injection Date:	06-Jul-2017 16:26:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	IC L1 80			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

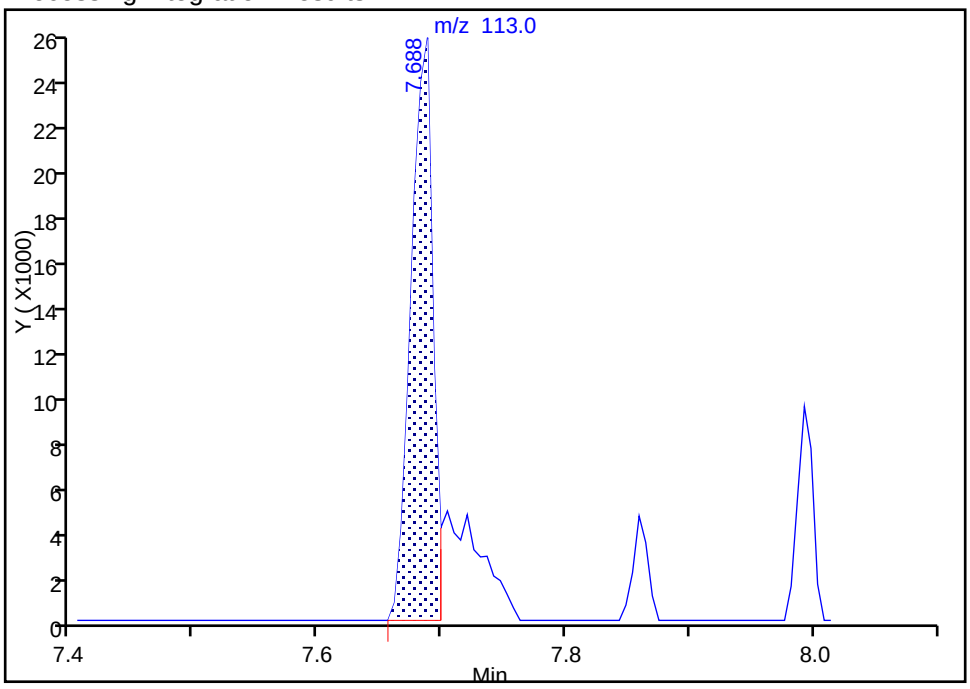
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303871.D
Injection Date: 06-Jul-2017 16:26:30 Instrument ID: HP5973V
Lims ID: IC L1 80
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

124 Caprolactam, CAS: 105-60-2

Signal: 1

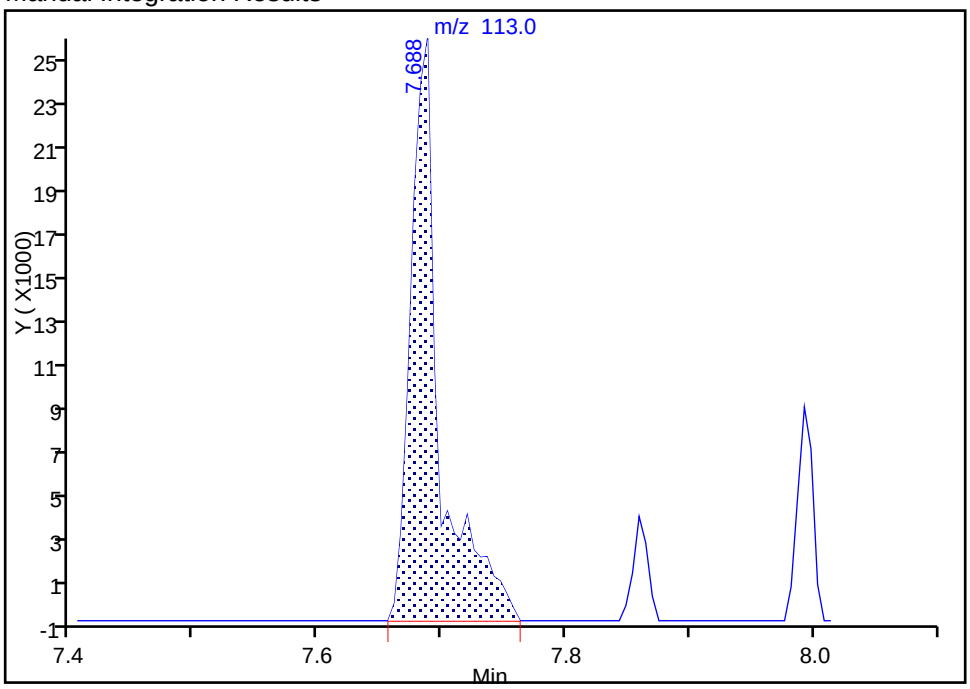
Processing Integration Results

RT: 7.69
Area: 31935
Amount: 81.876909
Amount Units: ng/uL



Manual Integration Results

RT: 7.69
Area: 42122
Amount: 80.761329
Amount Units: ng/uL



Reviewer: quirkp, 07-Jul-2017 09:02:32
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303872.D
Lims ID: IC L1 100
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Jul-2017 16:52:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0063851-007
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 07-Jul-2017 09:32:53 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quirkp Date: 07-Jul-2017 09:04:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.589	5.588	0.001	95	53391	40.0	40.0	
* 2 Naphthalene-d8	136	7.143	7.143	0.000	99	180876	40.0	40.0	
* 3 Acenaphthene-d10	164	9.205	9.205	0.000	96	94118	40.0	40.0	
* 4 Phenanthrene-d10	188	10.829	10.829	0.000	97	178030	40.0	40.0	
* 5 Chrysene-d12	240	13.217	13.217	0.000	97	199729	40.0	40.0	
* 6 Perylene-d12	264	14.366	14.366	0.000	100	206216	40.0	40.0	
$ 7 2-Fluorophenol	112	3.831	3.831	0.000	95	185873	100.0	101.0	
$ 8 Phenol-d5	99	5.167	5.161	0.006	92	238600	100.0	101.0	
$ 9 Nitrobenzene-d5	82	6.283	6.283	0.000	94	234105	100.0	104.1	
$ 10 2-Fluorobiphenyl	172	8.436	8.436	0.000	100	385143	100.0	97.0	
$ 11 2,4,6-Tribromophenol	330	10.113	10.108	0.005	93	57231	100.0	102.2	
$ 12 p-Terphenyl-d14	244	12.325	12.325	0.000	99	406161	100.0	98.3	
68 1,4-Dioxane	88	1.561	1.560	0.001	96	88973	100.0	98.3	
69 N-Nitrosodimethylamine	42	1.844	1.844	0.000	86	141904	100.0	100.1	
70 Pyridine	52	1.886	1.886	0.000	80	229184	100.0	99.9	
80 Benzaldehyde	77	5.022	5.017	0.005	91	171875	100.0	99.5	
82 Aniline	93	5.172	5.172	0.000	89	306436	100.0	99.3	
81 Phenol	94	5.183	5.177	0.006	88	263960	100.0	99.3	
83 Bis(2-chloroethyl)ether	93	5.273	5.268	0.005	93	191916	100.0	100.8	
84 2-Chlorophenol	128	5.327	5.321	0.006	94	182605	100.0	100.2	
263 n-Decane	57	5.428	5.428	0.000	93	287621	100.0	98.4	
87 1,3-Dichlorobenzene	146	5.519	5.514	0.005	95	213050	100.0	99.5	
88 1,4-Dichlorobenzene	146	5.610	5.610	0.000	89	211769	100.0	98.2	
90 Benzyl alcohol	108	5.786	5.786	0.000	87	128609	100.0	100.2	
91 1,2-Dichlorobenzene	146	5.802	5.802	0.000	94	197911	100.0	96.1	
248 Indene	115	5.914	5.914	0.000	95	965787	300.0	303.4	
92 2-Methylphenol	108	5.947	5.946	0.000	97	172357	100.0	98.6	
93 2,2'-oxybis[1-chloropropan	45	5.968	5.968	0.000	91	354370	100.0	96.7	
94 Acetophenone	105	6.107	6.101	0.006	91	270432	100.0	99.7	
95 N-Nitrosodi-n-propylamine	70	6.123	6.117	0.006	93	148715	100.0	98.4	
96 4-Methylphenol	108	6.150	6.144	0.006	92	178430	100.0	98.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.214	6.213	0.001	92	82576	100.0	98.7	
102 Nitrobenzene	77	6.310	6.304	0.006	93	231207	100.0	104.7	
106 Isophorone	82	6.604	6.603	0.001	98	387817	100.0	104.3	
107 2-Nitrophenol	139	6.700	6.694	0.006	90	89994	100.0	100.6	
108 2,4-Dimethylphenol	107	6.785	6.785	0.000	98	201348	100.0	104.5	
111 Bis(2-chloroethoxy)methane	93	6.892	6.887	0.005	94	206441	100.0	101.4	
115 Benzoic acid	105	7.036	6.993	0.043	91	446330	300.0	310.9	
114 2,4-Dichlorophenol	162	6.999	6.993	0.006	97	149506	100.0	103.7	
117 1,2,4-Trichlorobenzene	180	7.090	7.084	0.006	92	159664	100.0	100.0	
118 Naphthalene	128	7.170	7.170	0.000	99	492670	100.0	101.4	
119 4-Chloroaniline	127	7.255	7.255	0.000	92	202976	100.0	102.0	
122 2,6-Dichlorophenol	162	7.266	7.261	0.005	94	143673	100.0	101.4	
121 Hexachlorobutadiene	225	7.341	7.341	0.000	95	118428	100.0	102.0	
124 Caprolactam	113	7.693	7.667	0.026	72	49419	100.0	103.0	M
129 4-Chloro-3-methylphenol	107	7.864	7.859	0.005	93	163960	100.0	101.5	
131 2-Methylnaphthalene	142	7.993	7.992	0.001	89	309761	100.0	102.4	
251 1-Methylnaphthalene	142	8.110	8.105	0.005	97	285311	100.0	103.2	
134 Hexachlorocyclopentadiene	237	8.196	8.195	0.001	98	133449	100.0	99.5	
135 1,2,4,5-Tetrachlorobenzene	216	8.201	8.195	0.006	99	165886	100.0	96.7	
137 2,4,6-Trichlorophenol	196	8.340	8.340	0.000	95	114112	100.0	99.0	
138 2,4,5-Trichlorophenol	196	8.388	8.382	0.006	95	117520	100.0	98.2	
140 1,1'-Biphenyl	154	8.548	8.548	0.000	97	377877	100.0	97.1	
141 2-Chloronaphthalene	162	8.559	8.559	0.000	99	306532	100.0	98.0	
143 2-Nitroaniline	65	8.692	8.692	0.000	76	124652	100.0	97.9	
146 Dimethyl phthalate	163	8.927	8.922	0.005	97	348417	100.0	97.4	
148 1,3-Dinitrobenzene	168	8.949	8.943	0.006	82	58054	100.0	100.9	
149 2,6-Dinitrotoluene	165	8.986	8.981	0.005	86	82685	100.0	100.9	
150 Acenaphthylene	152	9.040	9.034	0.006	98	448657	100.0	99.8	
151 3-Nitroaniline	138	9.173	9.173	0.000	87	85143	100.0	97.6	
152 Acenaphthene	153	9.243	9.243	0.000	96	295958	100.0	98.3	
153 2,4-Dinitrophenol	184	9.301	9.296	0.005	82	115655	200.0	195.9	
154 4-Nitrophenol	109	9.414	9.408	0.006	93	148247	200.0	195.5	
155 Dibenzofuran	168	9.446	9.446	0.000	93	411543	100.0	96.2	
156 2,4-Dinitrotoluene	165	9.451	9.451	0.000	81	107884	100.0	99.2	
158 2,3,4,6-Tetrachlorophenol	232	9.606	9.600	0.006	74	99436	100.0	100.4	
161 Diethyl phthalate	149	9.756	9.750	0.006	97	351816	100.0	98.8	
256 Hexadecane	57	9.793	9.793	0.000	69	295374	100.0	98.0	
162 Fluorene	166	9.841	9.841	0.000	94	334670	100.0	97.9	
163 4-Chlorophenyl phenyl ethe	204	9.857	9.857	0.000	97	170116	100.0	96.9	
164 4-Nitroaniline	138	9.889	9.878	0.011	76	84901	100.0	98.9	
165 4,6-Dinitro-2-methylphenol	198	9.926	9.921	0.005	75	142762	200.0	203.9	
168 N-Nitrosodiphenylamine	169	9.996	9.990	0.006	63	258338	100.0	102.9	
169 Diphenylamine	169	9.996	9.990	0.006	95	258338	85.5	88.0	
170 1,2-Diphenylhydrazine	77	10.033	10.028	0.005	96	417289	100.0	96.9	
171 Azobenzene	77	10.033	10.028	0.005	98	417289	100.0	101.4	
175 4-Bromophenyl phenyl ether	248	10.386	10.386	0.000	71	103557	100.0	100.3	
179 Hexachlorobenzene	284	10.450	10.445	0.005	94	111534	100.0	102.5	
180 Atrazine	200	10.584	10.578	0.006	89	100108	100.0	97.8	
183 Pentachlorophenol	266	10.658	10.658	0.000	90	141642	200.0	202.7	
265 n-Octadecane	57	10.781	10.781	0.000	90	284310	100.0	100.6	
188 Phenanthrene	178	10.856	10.856	0.000	98	481487	100.0	102.0	
189 Anthracene	178	10.909	10.904	0.005	98	501907	100.0	102.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.075	11.075	0.000	97	429345	100.0	102.4	
195 Di-n-butyl phthalate	149	11.433	11.433	0.000	100	569878	100.0	101.2	
201 Fluoranthene	202	11.978	11.978	0.000	97	549998	100.0	102.8	
202 Benzidine	184	12.106	12.106	0.000	99	377460	100.0	102.1	
204 Pyrene	202	12.176	12.175	0.001	98	577101	100.0	98.3	
210 Butyl benzyl phthalate	149	12.747	12.747	0.000	97	257712	100.0	99.4	
215 3,3'-Dichlorobenzidine	252	13.191	13.185	0.006	74	206857	100.0	99.8	
217 Benzo[a]anthracene	228	13.207	13.206	0.001	98	577334	100.0	100.2	
216 Bis(2-ethylhexyl) phthalat	149	13.233	13.233	0.000	97	366802	100.0	98.3	
218 Chrysene	228	13.239	13.239	0.000	97	538371	100.0	98.1	
220 Di-n-octyl phthalate	149	13.757	13.751	0.006	99	621252	100.0	99.6	
221 Benzo[b]fluoranthene	252	14.077	14.072	0.005	96	619047	100.0	103.7	
222 Benzo[k]fluoranthene	252	14.099	14.093	0.006	98	562760	100.0	96.9	
225 Benzo[a]pyrene	252	14.323	14.323	0.000	76	559471	100.0	103.0	
227 Indeno[1,2,3-cd]pyrene	276	15.258	15.253	0.005	98	684658	100.0	106.3	
228 Dibenz(a,h)anthracene	278	15.263	15.258	0.005	87	576212	100.0	107.2	
229 Benzo[g,h,i]perylene	276	15.509	15.504	0.005	98	590065	100.0	106.0	
S 232 Total Cresols	1				0			196.7	
S 233 3-Methylphenol	1				0			98.1	
S 234 3 & 4 Methylphenol	108				0			98.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00478	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

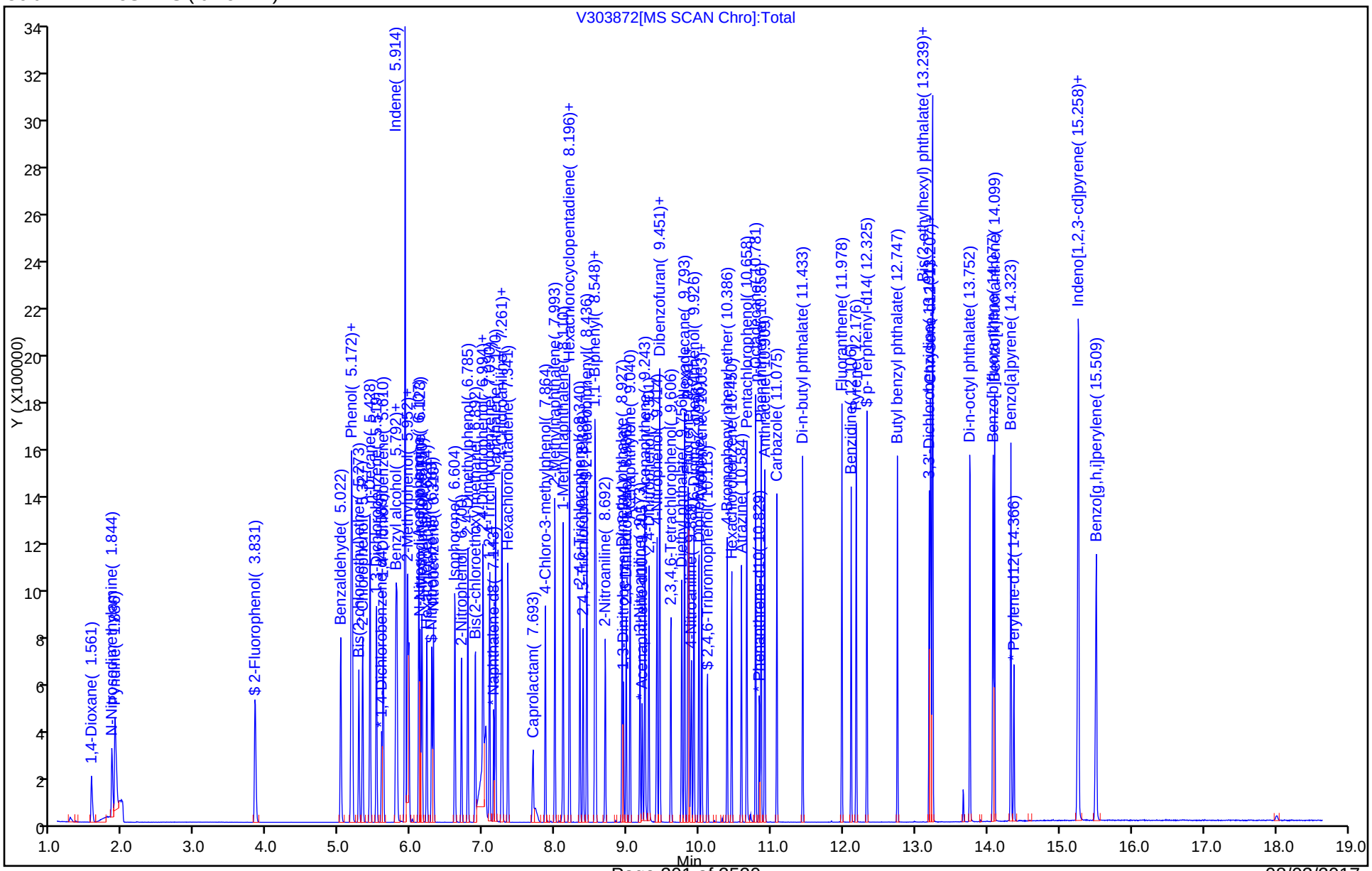
Report Date: 07-Jul-2017 09:32:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303872.D

Injection Date:	06-Jul-2017 16:52:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	IC L1 100			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

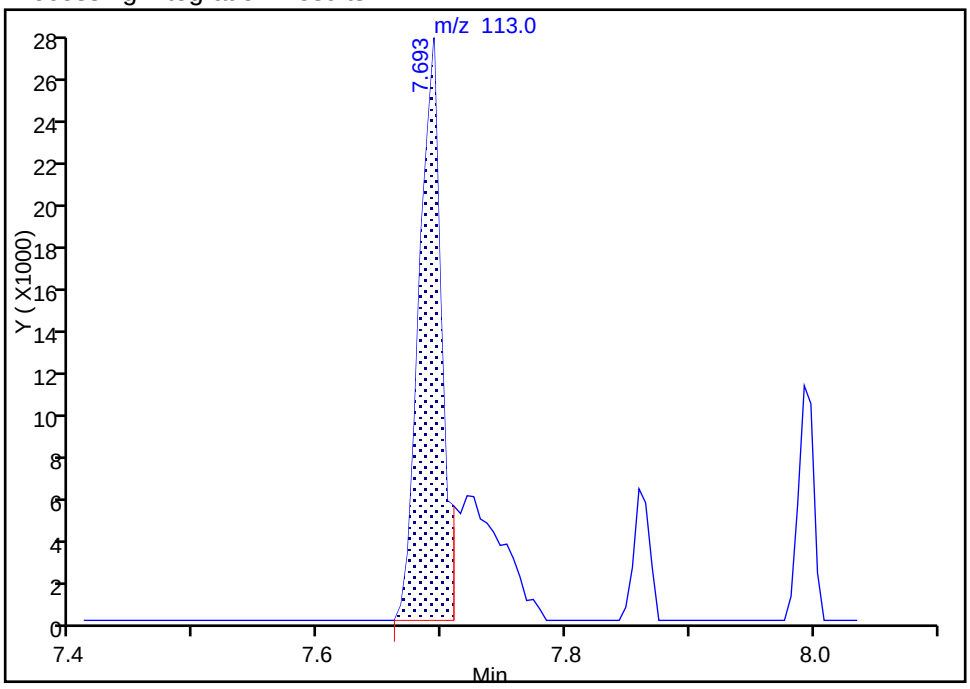
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303872.D
Injection Date: 06-Jul-2017 16:52:30 Instrument ID: HP5973V
Lims ID: IC L1 100
Client ID:
Operator ID: PJQ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

124 Caprolactam, CAS: 105-60-2

Signal: 1

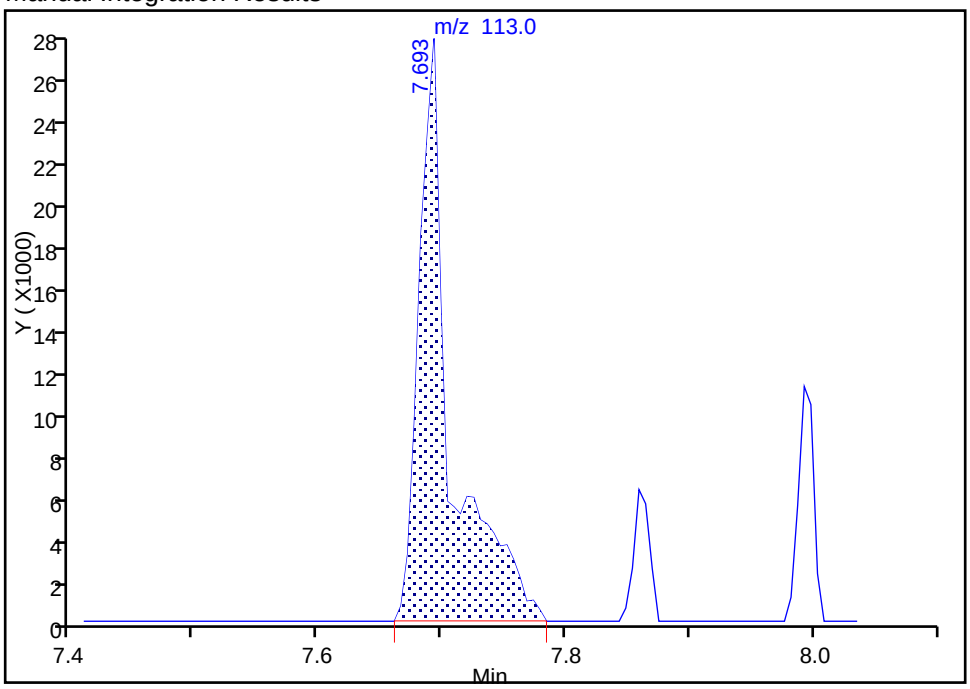
Processing Integration Results

RT: 7.69
Area: 35010
Amount: 91.632403
Amount Units: ng/uL



Manual Integration Results

RT: 7.69
Area: 49419
Amount: 103.0148
Amount Units: ng/uL



Reviewer: quirkp, 07-Jul-2017 09:03:45
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D
Lims ID: IC L1 120
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-Jul-2017 17:18:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0063851-008
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 07-Jul-2017 09:33:00 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quirkp Date: 07-Jul-2017 09:04:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.589	5.588	0.001	95	53929	40.0	40.0	
* 2 Naphthalene-d8	136	7.143	7.143	0.000	100	188547	40.0	40.0	
* 3 Acenaphthene-d10	164	9.205	9.205	0.000	96	91752	40.0	40.0	
* 4 Phenanthrene-d10	188	10.835	10.829	0.006	97	187180	40.0	40.0	
* 5 Chrysene-d12	240	13.217	13.217	0.000	97	201471	40.0	40.0	
* 6 Perylene-d12	264	14.366	14.366	0.000	99	209033	40.0	40.0	
$ 7 2-Fluorophenol	112	3.831	3.831	0.000	96	223878	120.0	120.5	
$ 8 Phenol-d5	99	5.167	5.161	0.006	93	281945	120.0	118.2	
$ 9 Nitrobenzene-d5	82	6.289	6.283	0.006	94	279931	120.0	119.4	
$ 10 2-Fluorobiphenyl	172	8.441	8.436	0.005	100	464641	120.0	120.0	
$ 11 2,4,6-Tribromophenol	330	10.114	10.108	0.006	92	70012	120.0	118.7	
$ 12 p-Terphenyl-d14	244	12.325	12.325	0.000	98	500677	120.0	120.2	
68 1,4-Dioxane	88	1.561	1.560	0.001	96	105498	120.0	115.4	
69 N-Nitrosodimethylamine	42	1.844	1.844	0.000	85	168089	120.0	117.4	
70 Pyridine	52	1.887	1.886	0.001	80	273278	120.0	117.9	
80 Benzaldehyde	77	5.022	5.017	0.005	91	202410	120.0	116.0	
82 Aniline	93	5.172	5.172	0.000	88	370166	120.0	118.7	
81 Phenol	94	5.188	5.177	0.011	95	319566	120.0	119.0	
83 Bis(2-chloroethyl)ether	93	5.273	5.268	0.005	92	226097	120.0	117.6	
84 2-Chlorophenol	128	5.327	5.321	0.006	94	219848	120.0	119.4	
263 n-Decane	57	5.428	5.428	0.000	93	340726	120.0	115.5	
87 1,3-Dichlorobenzene	146	5.519	5.514	0.005	95	256291	120.0	118.5	
88 1,4-Dichlorobenzene	146	5.610	5.610	0.000	90	257606	120.0	118.2	
90 Benzyl alcohol	108	5.792	5.786	0.006	88	156993	120.0	121.1	
91 1,2-Dichlorobenzene	146	5.802	5.802	0.000	93	236832	120.0	113.8	
248 Indene	115	5.920	5.914	0.006	96	1175590	360.0	354.3	
92 2-Methylphenol	108	5.952	5.946	0.006	97	212433	120.0	120.3	
93 2,2'-oxybis[1-chloropropan	45	5.968	5.968	0.000	90	428137	120.0	115.6	
94 Acetophenone	105	6.107	6.101	0.006	91	330084	120.0	120.5	
95 N-Nitrosodi-n-propylamine	70	6.123	6.117	0.006	94	181610	120.0	119.0	
96 4-Methylphenol	108	6.150	6.144	0.006	91	219465	120.0	119.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.214	6.213	0.001	93	99808	120.0	118.1	
102 Nitrobenzene	77	6.310	6.304	0.006	94	275992	120.0	119.9	
106 Isophorone	82	6.609	6.603	0.006	98	473320	120.0	122.2	
107 2-Nitrophenol	139	6.700	6.694	0.006	88	112401	120.0	120.2	
108 2,4-Dimethylphenol	107	6.785	6.785	0.000	98	247657	120.0	123.3	
111 Bis(2-chloroethoxy)methane	93	6.892	6.887	0.005	94	250397	120.0	118.0	
114 2,4-Dichlorophenol	162	6.999	6.993	0.006	97	178989	120.0	119.1	
115 Benzoic acid	105	7.058	6.993	0.065	0	544558	360.0	362.4	M
117 1,2,4-Trichlorobenzene	180	7.090	7.084	0.006	93	196152	120.0	117.9	
118 Naphthalene	128	7.170	7.170	0.000	99	598119	120.0	118.1	
119 4-Chloroaniline	127	7.255	7.255	0.000	92	245473	120.0	118.3	
122 2,6-Dichlorophenol	162	7.266	7.261	0.005	92	179070	120.0	121.3	
121 Hexachlorobutadiene	225	7.341	7.341	0.000	96	139414	120.0	115.2	
124 Caprolactam	113	7.699	7.667	0.032	72	60231	120.0	120.1	M
129 4-Chloro-3-methylphenol	107	7.864	7.859	0.005	93	203878	120.0	120.9	
131 2-Methylnaphthalene	142	7.993	7.992	0.001	90	373128	120.0	118.4	
251 1-Methylnaphthalene	142	8.110	8.105	0.005	99	346598	120.0	120.2	
135 1,2,4,5-Tetrachlorobenzene	216	8.201	8.195	0.006	99	202017	120.0	120.8	
134 Hexachlorocyclopentadiene	237	8.196	8.195	0.001	97	158916	120.0	121.2	
137 2,4,6-Trichlorophenol	196	8.345	8.340	0.005	96	138442	120.0	122.9	
138 2,4,5-Trichlorophenol	196	8.388	8.382	0.006	93	141390	120.0	120.9	
140 1,1'-Biphenyl	154	8.548	8.548	0.000	97	457603	120.0	120.6	
141 2-Chloronaphthalene	162	8.564	8.559	0.005	99	370074	120.0	121.4	
143 2-Nitroaniline	65	8.693	8.692	0.001	75	154068	120.0	123.8	
146 Dimethyl phthalate	163	8.933	8.922	0.011	96	431262	120.0	123.6	
148 1,3-Dinitrobenzene	168	8.949	8.943	0.006	80	73225	120.0	121.8	
149 2,6-Dinitrotoluene	165	8.986	8.981	0.005	83	99619	120.0	124.7	
150 Acenaphthylene	152	9.040	9.034	0.006	98	539338	120.0	123.1	
151 3-Nitroaniline	138	9.179	9.173	0.006	87	103938	120.0	121.9	
152 Acenaphthene	153	9.248	9.243	0.005	96	354959	120.0	120.9	
153 2,4-Dinitrophenol	184	9.302	9.296	0.006	82	147534	240.0	254.2	
154 4-Nitrophenol	109	9.419	9.408	0.011	93	183866	240.0	247.5	
155 Dibenzofuran	168	9.451	9.446	0.005	94	493933	120.0	118.4	
156 2,4-Dinitrotoluene	165	9.456	9.451	0.005	87	133891	120.0	126.3	
158 2,3,4,6-Tetrachlorophenol	232	9.606	9.600	0.006	75	118853	120.0	122.7	
161 Diethyl phthalate	149	9.756	9.750	0.006	97	430882	120.0	124.1	
256 Hexadecane	57	9.793	9.793	0.000	69	359520	120.0	122.3	
162 Fluorene	166	9.846	9.841	0.005	94	406509	120.0	122.0	
163 4-Chlorophenyl phenyl ethe	204	9.857	9.857	0.000	96	208884	120.0	122.0	
164 4-Nitroaniline	138	9.895	9.878	0.017	75	101203	120.0	120.7	
165 4,6-Dinitro-2-methylphenol	198	9.927	9.921	0.006	75	179348	240.0	242.9	
169 Diphenylamine	169	9.996	9.990	0.006	95	313055	102.6	101.5	
168 N-Nitrosodiphenylamine	169	9.996	9.990	0.006	63	313055	120.0	118.7	
171 Azobenzene	77	10.033	10.028	0.005	98	516719	120.0	119.4	
170 1,2-Diphenylhydrazine	77	10.033	10.028	0.005	96	516719	120.0	123.0	
175 4-Bromophenyl phenyl ether	248	10.386	10.386	0.000	72	130015	120.0	119.8	
179 Hexachlorobenzene	284	10.450	10.445	0.005	93	134860	120.0	117.9	
180 Atrazine	200	10.589	10.578	0.011	92	126127	120.0	126.4	
183 Pentachlorophenol	266	10.658	10.658	0.000	90	178233	240.0	241.5	
265 n-Octadecane	57	10.781	10.781	0.000	89	353572	120.0	119.0	
188 Phenanthrene	178	10.856	10.856	0.000	98	586096	120.0	118.1	
189 Anthracene	178	10.910	10.904	0.006	98	620202	120.0	120.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.075	11.075	0.000	97	530524	120.0	120.4	
195 Di-n-butyl phthalate	149	11.433	11.433	0.000	100	713488	120.0	120.4	
201 Fluoranthene	202	11.978	11.978	0.000	98	683471	120.0	121.6	
202 Benzidine	184	12.106	12.106	0.000	99	463630	120.0	124.3	
204 Pyrene	202	12.181	12.175	0.006	98	709359	120.0	119.8	
210 Butyl benzyl phthalate	149	12.747	12.747	0.000	98	319365	120.0	121.9	
215 3,3'-Dichlorobenzidine	252	13.191	13.185	0.006	74	252461	120.0	120.5	
217 Benzo[a]anthracene	228	13.207	13.206	0.001	97	713517	120.0	122.7	
216 Bis(2-ethylhexyl) phthalat	149	13.233	13.233	0.000	97	463782	120.0	122.9	
218 Chrysene	228	13.244	13.239	0.005	97	656259	120.0	118.6	
220 Di-n-octyl phthalate	149	13.757	13.751	0.006	100	771948	120.0	122.4	
221 Benzo[b]fluoranthene	252	14.078	14.072	0.006	96	734512	120.0	121.3	
222 Benzo[k]fluoranthene	252	14.099	14.093	0.006	98	691168	120.0	117.5	
225 Benzo[a]pyrene	252	14.323	14.323	0.000	76	665295	120.0	120.8	
227 Indeno[1,2,3-cd]pyrene	276	15.258	15.253	0.005	98	817745	120.0	125.2	
228 Dibenz(a,h)anthracene	278	15.263	15.258	0.005	88	672804	120.0	123.5	
229 Benzo[g,h,i]perylene	276	15.515	15.504	0.011	98	697212	120.0	123.6	
S 232 Total Cresols	1				0			239.8	
S 234 3 & 4 Methylphenol	108				0			119.5	
S 233 3-Methylphenol	1				0			119.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00479	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00036	Amount Added: 20.00	Units: uL	Run Reagent

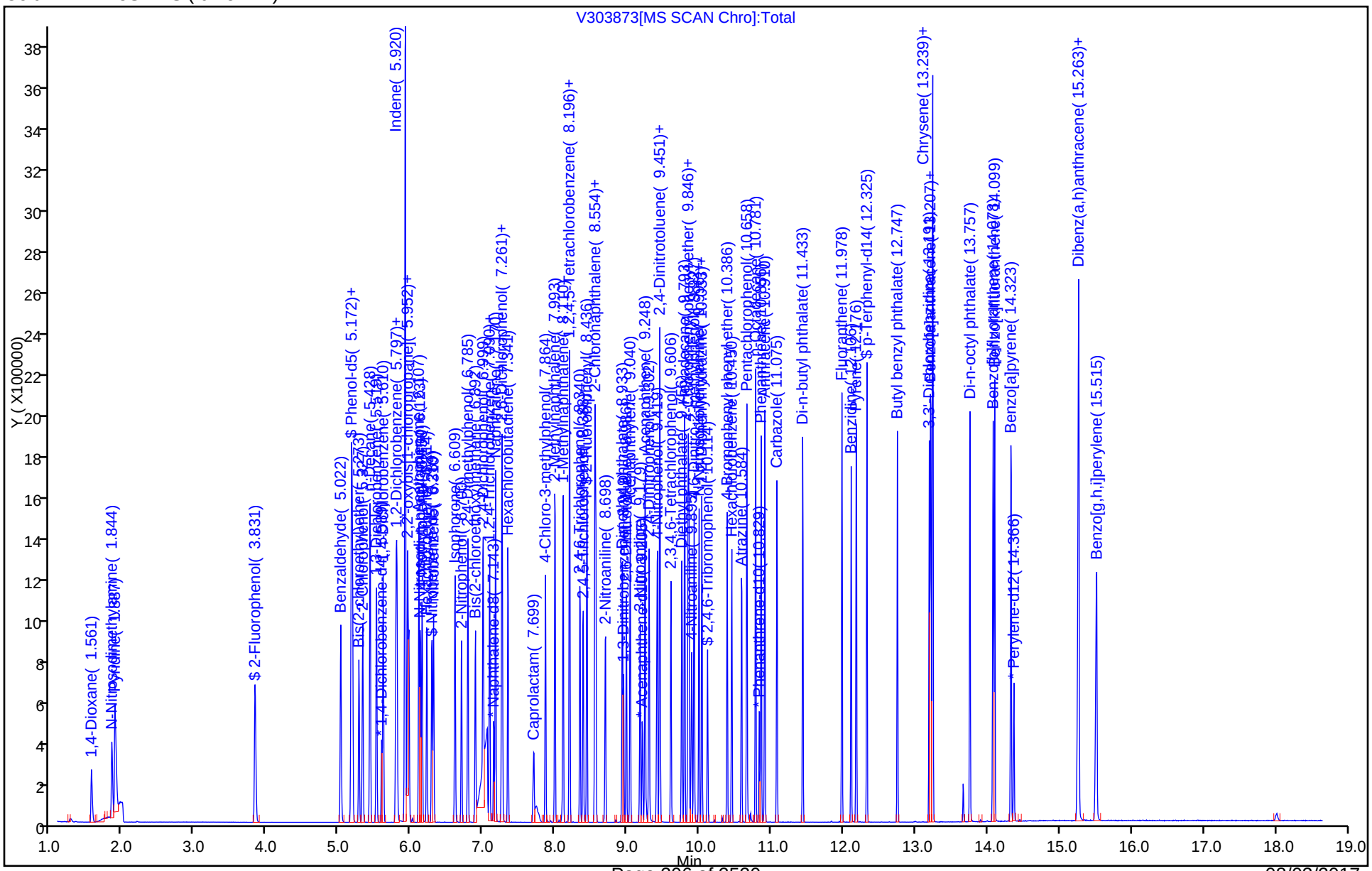
Report Date: 07-Jul-2017 09:33:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Injection Date:	06-Jul-2017 17:18:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	IC L1 120			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

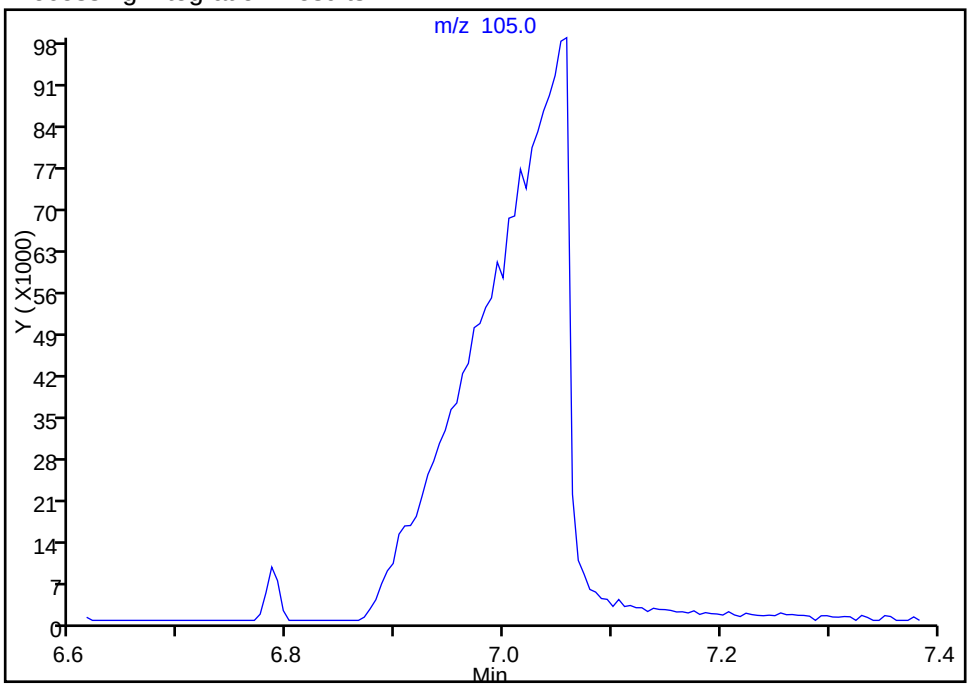
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D
Injection Date: 06-Jul-2017 17:18:30 Instrument ID: HP5973V
Lims ID: IC L1 120
Client ID:
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

115 Benzoic acid, CAS: 65-85-0

Signal: 1

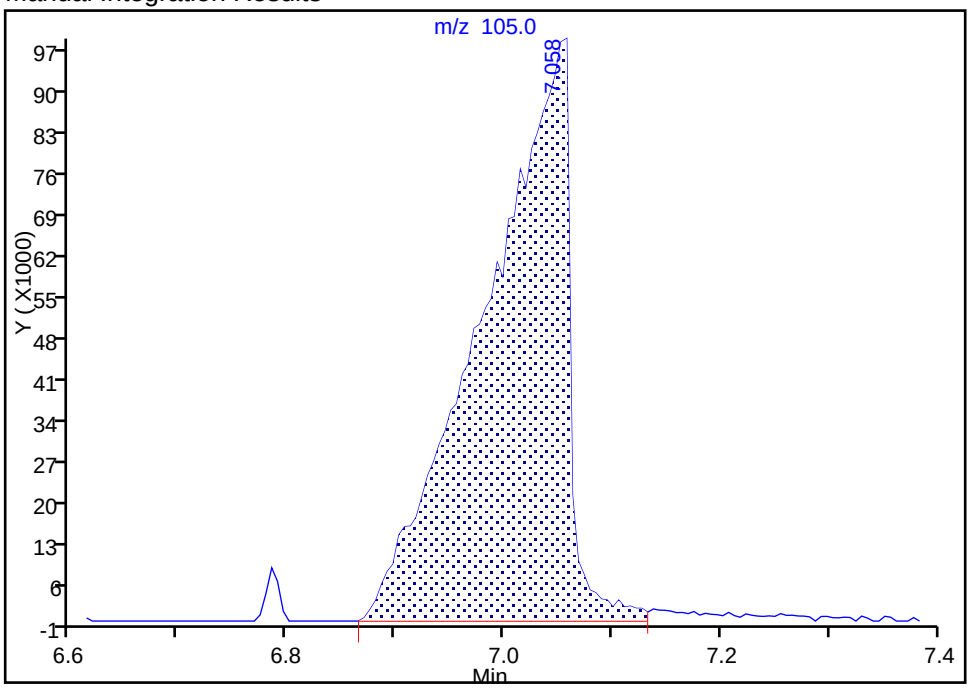
Not Detected
Expected RT: 6.99

Processing Integration Results



Manual Integration Results

RT: 7.06
Area: 544558
Amount: 362.3587
Amount Units: ng/uL



Reviewer: quirkp, 07-Jul-2017 09:05:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

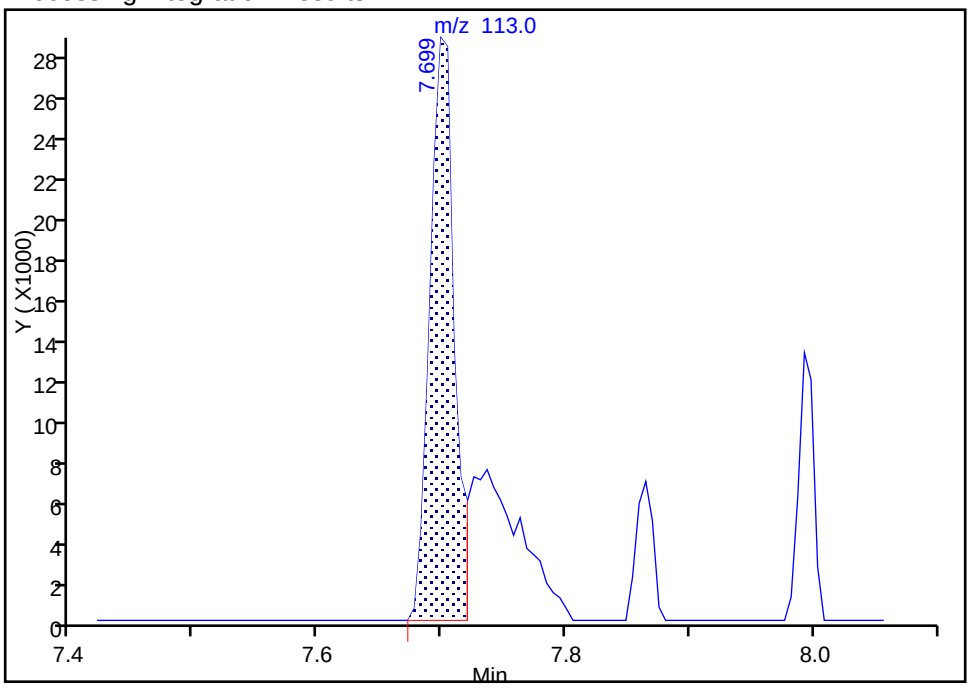
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D
Injection Date: 06-Jul-2017 17:18:30 Instrument ID: HP5973V
Lims ID: IC L1 120
Client ID:
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

124 Caprolactam, CAS: 105-60-2

Signal: 1

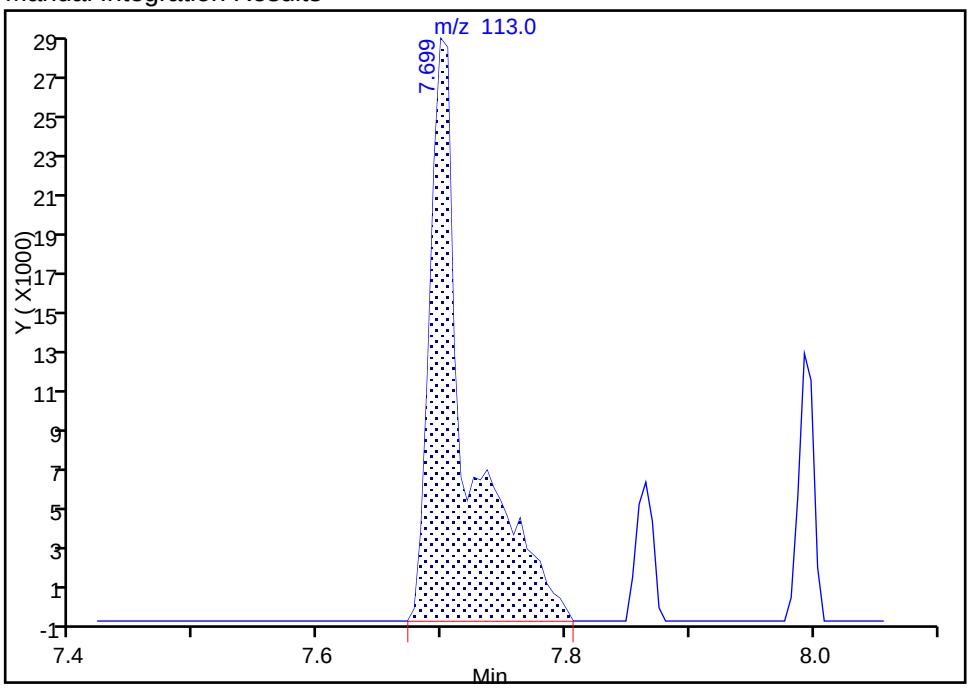
Processing Integration Results

RT: 7.70
Area: 39806
Amount: 90.358097
Amount Units: ng/uL



Manual Integration Results

RT: 7.70
Area: 60231
Amount: 120.1272
Amount Units: ng/uL



Reviewer: quirkp, 07-Jul-2017 09:05:40
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID (1): CCVIS 480-368383/3 Instrument ID (1): HP5973V

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 07/24/2017 13:40

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol	3.80	100.0
Benzaldehyde	4.99	100.0
Phenol-d5	5.13	100.0
Phenol	5.15	100.0
Bis(2-chloroethyl)ether	5.24	100.0
2-Chlorophenol	5.29	100.0
2-Methylphenol	5.91	100.0
bis (2-chloroisopropyl) ether	5.94	100.0
Acetophenone	6.08	100.0
N-Nitrosodi-n-propylamine	6.09	100.0
4-Methylphenol	6.11	100.0
Hexachloroethane	6.18	100.0
Nitrobenzene-d5	6.25	100.0
Nitrobenzene	6.28	100.0
Isophorone	6.57	100.0
2-Nitrophenol	6.67	100.0
2,4-Dimethylphenol	6.75	100.0
Bis(2-chloroethoxy)methane	6.86	100.0
2,4-Dichlorophenol	6.96	100.0
Naphthalene	7.14	100.0
4-Chloroaniline	7.22	100.0
Hexachlorobutadiene	7.31	100.0
Caprolactam	7.64	100.0
4-Chloro-3-methylphenol	7.83	100.0
2-Methylnaphthalene	7.96	100.0
Hexachlorocyclopentadiene	8.16	100.0
2,4,6-Trichlorophenol	8.31	100.0
2,4,5-Trichlorophenol	8.35	100.0
2-Fluorobiphenyl	8.40	100.0
Biphenyl	8.52	100.0
2-Chloronaphthalene	8.53	100.0
2-Nitroaniline	8.66	100.0
Dimethyl phthalate	8.90	100.0
2,6-Dinitrotoluene	8.95	100.0
Acenaphthylene	9.01	100.0
3-Nitroaniline	9.14	100.0
Acenaphthene	9.21	100.0
2,4-Dinitrophenol	9.27	100.0
4-Nitrophenol	9.38	100.0
Dibenzofuran	9.41	100.0
2,4-Dinitrotoluene	9.42	100.0
Diethyl phthalate	9.72	100.0
Fluorene	9.81	100.0
4-Chlorophenyl phenyl ether	9.83	100.0
4-Nitroaniline	9.85	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID (1): CCVIS 480-368383/3 Instrument ID (1): HP5973V

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 07/24/2017 13:40

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	9.89	100.0
N-Nitrosodiphenylamine	9.96	100.0
2,4,6-Tribromophenol	10.08	100.0
4-Bromophenyl phenyl ether	10.36	100.0
Hexachlorobenzene	10.42	100.0
Atrazine	10.56	100.0
Pentachlorophenol	10.63	100.0
Phenanthrene	10.83	100.0
Anthracene	10.88	100.0
Carbazole	11.05	100.0
Di-n-butyl phthalate	11.41	100.0
Fluoranthene	11.95	100.0
Pyrene	12.15	100.0
p-Terphenyl-d14	12.30	100.0
Butyl benzyl phthalate	12.73	100.0
3,3'-Dichlorobenzidine	13.16	100.0
Benzo(a)anthracene	13.18	100.0
Bis(2-ethylhexyl) phthalate	13.21	100.0
Chrysene	13.21	100.0
Di-n-octyl phthalate	13.73	100.0
Benzo(b)fluoranthene	14.05	28.10
Benzo(k)fluoranthene	14.07	100.0
Benzo(a)pyrene	14.29	100.0
Indeno(1,2,3-cd)pyrene	15.21	100.0
Dibenz(a,h)anthracene	15.22	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368383/3 Calibration Date: 07/24/2017 13:40

Instrument ID: HP5973V Calib Start Date: 07/06/2017 15:08

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 07/06/2017 17:18

Lab File ID: V304167.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6782	0.7072	0.0100	52100	50000	4.3	20.0
N-Nitrosodimethylamine	Ave	1.062	1.196	0.0100	56300	50000	12.6	50.0
Pyridine	Ave	1.719	1.848	0.0100	53800	50000	7.5	50.0
Benzaldehyde	Ave	1.295	1.109	0.0100	42800	50000	-14.3	50.0
Aniline	Ave	2.312	2.269	0.0100	49100	50000	-1.9	20.0
Phenol	Ave	1.991	1.922	0.8000	48300	50000	-3.5	20.0
Bis(2-chloroethyl)ether	Ave	1.427	1.405	0.7000	49300	50000	-1.5	20.0
2-Chlorophenol	Ave	1.365	1.307	0.8000	47900	50000	-4.3	20.0
n-Decane	Ave	2.189	2.287	0.0100	52200	50000	4.5	20.0
1,3-Dichlorobenzene	Ave	1.604	1.581	0.0100	49300	50000	-1.4	20.0
1,4-Dichlorobenzene	Ave	1.616	1.610	0.0100	49800	50000	-0.4	20.0
Benzyl alcohol	Ave	0.9612	0.9221	0.0100	48000	50000	-4.1	20.0
1,2-Dichlorobenzene	Ave	1.543	1.475	0.0100	47800	50000	-4.4	20.0
Indene	Ave	0.7040	0.7265	0.0100	155000	150000	3.2	20.0
2-Methylphenol	Ave	1.310	1.295	0.7000	49400	50000	-1.1	20.0
bis (2-chloroisopropyl) ether	Ave	2.746	2.883	0.0100	52500	50000	5.0	20.0
Acetophenone	Ave	2.032	2.042	0.0100	50200	50000	0.5	20.0
N-Nitrosodi-n-propylamine	Ave	1.132	1.101	0.5000	48600	50000	-2.7	20.0
4-Methylphenol	Ave	1.362	1.346	0.6000	49400	50000	-1.2	20.0
Hexachloroethane	Ave	0.6266	0.6414	0.3000	51200	50000	2.4	20.0
Nitrobenzene	Ave	0.4882	0.5153	0.2000	52800	50000	5.6	20.0
Isophorone	Ave	0.8220	0.8708	0.4000	53000	50000	5.9	20.0
2-Nitrophenol	Lin1		0.1921	0.1000	49300	50000	-1.4	20.0
2,4-Dimethylphenol	Ave	0.4261	0.4533	0.2000	53200	50000	6.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.4502	0.4561	0.3000	50700	50000	1.3	20.0
Benzoic acid	Lin1		0.2536	0.0100	125000	150000	-16.5	50.0
2,4-Dichlorophenol	Ave	0.3187	0.3273	0.2000	51300	50000	2.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3531	0.3655	0.0100	51800	50000	3.5	20.0
Naphthalene	Ave	1.074	1.093	0.7000	50900	50000	1.7	20.0
4-Chloroaniline	Ave	0.4401	0.4467	0.0100	50800	50000	1.5	20.0
2,6-Dichlorophenol	Ave	0.3132	0.3226	0.0100	51500	50000	3.0	20.0
Hexachlorobutadiene	Ave	0.2568	0.2675	0.0100	52100	50000	4.2	20.0
Caprolactam	Lin1		0.1011	0.0100	48600	50000	-2.7	50.0
4-Chloro-3-methylphenol	Lin1		0.3633	0.2000	51300	50000	2.5	20.0
2-Methylnaphthalene	Ave	0.6687	0.6941	0.4000	51900	50000	3.8	20.0
1-Methylnaphthalene	Ave	0.6116	0.6398	0.0100	52300	50000	4.6	20.0
Hexachlorocyclopentadiene	Lin1		0.5390	0.0500	48000	50000	-4.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7288	0.7399	0.0100	50800	50000	1.5	20.0
2,4,6-Trichlorophenol	Lin1		0.4522	0.2000	46800	50000	-6.5	20.0
2,4,5-Trichlorophenol	Lin1		0.4853	0.2000	48300	50000	-3.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368383/3 Calibration Date: 07/24/2017 13:40

Instrument ID: HP5973V Calib Start Date: 07/06/2017 15:08

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 07/06/2017 17:18

Lab File ID: V304167.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.655	1.669	0.0100	50400	50000	0.9	20.0
2-Chloronaphthalene	Ave	1.329	1.308	0.8000	49200	50000	-1.5	20.0
2-Nitroaniline	Lin1		0.5285	0.0100	49500	50000	-0.9	20.0
Dimethyl phthalate	Ave	1.521	1.537	0.0100	50500	50000	1.0	20.0
1,3-Dinitrobenzene	Lin1		0.1324	0.0100	52700	50000	5.4	20.0
2,6-Dinitrotoluene	Ave	0.3484	0.3447	0.2000	49500	50000	-1.0	20.0
Acenaphthylene	Ave	1.910	1.877	0.9000	49100	50000	-1.7	20.0
3-Nitroaniline	Lin1		0.3582	0.0100	49000	50000	-2.0	20.0
Acenaphthene	Ave	1.280	1.257	0.0100	49100	50000	-1.8	20.0
2,4-Dinitrophenol	Lin1		0.2231	0.0100	92900	100000	-7.1	20.0
4-Nitrophenol	Lin1		0.3121	0.0100	99100	100000	-0.9	20.0
Dibenzofuran	Ave	1.818	1.841	0.8000	50600	50000	1.3	20.0
2,4-Dinitrotoluene	Ave	0.4620	0.4631	0.0100	50100	50000	0.2	20.0
2,3,4,6-Tetrachlorophenol	Lin1		0.4221	0.0100	51000	50000	1.9	20.0
Diethyl phthalate	Ave	1.514	1.558	0.0100	51500	50000	2.9	20.0
Hexadecane	Ave	1.281	1.304	0.0100	50900	50000	1.8	20.0
Fluorene	Ave	1.453	1.484	0.9000	51100	50000	2.2	20.0
4-Chlorophenyl phenyl ether	Ave	0.7461	0.7383	0.4000	49500	50000	-1.0	20.0
4-Nitroaniline	Lin1		0.3325	0.0100	46200	50000	-7.6	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1513	0.0100	98400	100000	-1.6	20.0
Diphenylamine	Ave	0.6594	0.6589	0.0100	42700	42800	-0.0	20.0
N-Nitrosodiphenylamine	Ave	0.5638	0.5633	0.0100	50000	50000	-0.0	20.0
1,2-Diphenylhydrazine	Ave	1.831	1.898	0.0100	51800	50000	3.7	20.0
trans-Azobenzene	Ave	0.9244	0.9557	0.0100	51700	50000	3.4	20.0
4-Bromophenyl phenyl ether	Ave	0.2320	0.2452	0.1000	52800	50000	5.7	20.0
Hexachlorobenzene	Lin1		0.2485	0.1000	50900	50000	1.8	20.0
Atrazine	Ave	0.4350	0.4459	0.0100	51200	50000	2.5	20.0
Pentachlorophenol	Lin1		0.1459	0.0500	96100	100000	-3.9	20.0
n-Octadecane	Lin1		0.6405	0.0100	50500	50000	1.1	20.0
Phenanthrene	Ave	1.060	1.097	0.7000	51800	50000	3.5	20.0
Anthracene	Ave	1.105	1.131	0.7000	51200	50000	2.4	20.0
Carbazole	Ave	0.9419	0.9526	0.0100	50600	50000	1.1	20.0
Di-n-butyl phthalate	Lin1		1.270	0.0100	50600	50000	1.2	20.0
Fluoranthene	Ave	1.202	1.269	0.6000	52800	50000	5.6	20.0
Benzidine	Ave	0.7405	0.6403	0.0100	43200	50000	-13.5	50.0
Pyrene	Ave	1.176	1.183	0.6000	50300	50000	0.6	20.0
Butyl benzyl phthalate	Lin1		0.4979	0.0100	48600	50000	-2.8	20.0
3,3'-Dichlorobenzidine	Lin1		0.4033	0.0100	49100	50000	-1.8	50.0
Benzo(a)anthracene	Ave	1.154	1.188	0.8000	51500	50000	2.9	20.0
Bis(2-ethylhexyl) phthalate	Lin1		0.7396	0.0100	50100	50000	0.2	20.0
Chrysene	Ave	1.099	1.115	0.7000	50700	50000	1.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368383/3 Calibration Date: 07/24/2017 13:40

Instrument ID: HP5973V Calib Start Date: 07/06/2017 15:08

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 07/06/2017 17:18

Lab File ID: V304167.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin1		1.208	0.0100	49000	50000	-2.0	20.0
Benzo(b)fluoranthene	Ave	1.158	1.160	0.7000	50100	50000	0.1	20.0
Benzo(k)fluoranthene	Ave	1.126	1.161	0.7000	51600	50000	3.1	20.0
Benzo(a)pyrene	Ave	1.054	1.078	0.7000	51100	50000	2.3	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.250	1.288	0.5000	51500	50000	3.1	20.0
Dibenz(a,h)anthracene	Ave	1.042	1.080	0.4000	51800	50000	3.6	20.0
Benzo(g,h,i)perylene	Ave	1.080	1.106	0.5000	51200	50000	2.4	20.0
2-Fluorophenol	Ave	1.378	1.385	0.0100	50200	50000	0.5	20.0
Phenol-d5	Ave	1.770	1.777	0.0100	50200	50000	0.4	20.0
Nitrobenzene-d5	Ave	0.4973	0.5335	0.0100	53600	50000	7.3	20.0
2-Fluorobiphenyl	Ave	1.688	1.655	0.0100	49000	50000	-2.0	20.0
2,4,6-Tribromophenol	Lin1		0.1286	0.0100	52000	50000	3.9	20.0
p-Terphenyl-d14	Ave	0.8272	0.8329	0.0100	50300	50000	0.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304167.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 24-Jul-2017 13:40:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064281-003
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2017 14:05:46 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: quirkp Date: 24-Jul-2017 14:05:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.556	5.556	0.000	95	43662	40.0	40.0	
* 2 Naphthalene-d8	136	7.111	7.111	0.000	98	145970	40.0	40.0	
* 3 Acenaphthene-d10	164	9.173	9.173	0.000	97	77617	40.0	40.0	
* 4 Phenanthrene-d10	188	10.803	10.803	0.000	97	154131	40.0	40.0	
* 5 Chrysene-d12	240	13.191	13.191	0.000	97	173827	40.0	40.0	
* 6 Perylene-d12	264	14.334	14.334	0.000	99	175958	40.0	40.0	
$ 7 2-Fluorophenol	112	3.799	3.799	0.000	96	75591	50.0	50.2	
$ 8 Phenol-d5	99	5.129	5.129	0.000	92	96977	50.0	50.2	
$ 9 Nitrobenzene-d5	82	6.251	6.251	0.000	96	97336	50.0	53.6	
$ 10 2-Fluorobiphenyl	172	8.404	8.404	0.000	99	160529	50.0	49.0	
$ 11 2,4,6-Tribromophenol	330	10.081	10.081	0.000	91	24768	50.0	52.0	
$ 12 p-Terphenyl-d14	244	12.298	12.298	0.000	98	180983	50.0	50.3	
68 1,4-Dioxane	88	1.539	1.539	0.000	93	38597	50.0	52.1	
69 N-Nitrosodimethylamine	42	1.822	1.822	0.000	81	65264	50.0	56.3	
70 Pyridine	52	1.865	1.865	0.000	76	100883	50.0	53.8	
80 Benzaldehyde	77	4.990	4.990	0.000	89	60547	50.0	42.8	
82 Aniline	93	5.140	5.140	0.000	88	123832	50.0	49.1	
81 Phenol	94	5.145	5.145	0.000	94	104921	50.0	48.3	
83 Bis(2-chloroethyl)ether	93	5.241	5.241	0.000	91	76695	50.0	49.3	
84 2-Chlorophenol	128	5.289	5.289	0.000	91	71335	50.0	47.9	
263 n-Decane	57	5.396	5.396	0.000	91	124797	50.0	52.2	
87 1,3-Dichlorobenzene	146	5.487	5.487	0.000	92	86310	50.0	49.3	
88 1,4-Dichlorobenzene	146	5.578	5.578	0.000	89	87870	50.0	49.8	
90 Benzyl alcohol	108	5.754	5.754	0.000	86	50328	50.0	48.0	
91 1,2-Dichlorobenzene	146	5.770	5.770	0.000	93	80510	50.0	47.8	
248 Indene	115	5.882	5.882	0.000	95	397699	150.0	154.8	
92 2-Methylphenol	108	5.914	5.914	0.000	96	70684	50.0	49.4	
93 2,2'-oxybis[1-chloropropan	45	5.936	5.936	0.000	90	157320	50.0	52.5	
94 Acetophenone	105	6.075	6.075	0.000	90	111454	50.0	50.2	
95 N-Nitrosodi-n-propylamine	70	6.091	6.091	0.000	95	60089	50.0	48.6	
96 4-Methylphenol	108	6.112	6.112	0.000	90	73480	50.0	49.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.182	6.182	0.000	90	35005	50.0	51.2	
102 Nitrobenzene	77	6.278	6.278	0.000	96	94027	50.0	52.8	
106 Isophorone	82	6.572	6.572	0.000	98	158896	50.0	53.0	
107 2-Nitrophenol	139	6.668	6.668	0.000	85	35057	50.0	49.3	
108 2,4-Dimethylphenol	107	6.753	6.753	0.000	97	82712	50.0	53.2	
111 Bis(2-chloroethoxy)methane	93	6.860	6.860	0.000	92	83223	50.0	50.7	
115 Benzoic acid	105	6.956	6.956	0.000	91	138835	150.0	125.2	
114 2,4-Dichlorophenol	162	6.961	6.961	0.000	95	59713	50.0	51.3	
117 1,2,4-Trichlorobenzene	180	7.058	7.058	0.000	91	66696	50.0	51.8	
118 Naphthalene	128	7.138	7.138	0.000	98	199351	50.0	50.9	
119 4-Chloroaniline	127	7.223	7.223	0.000	91	81509	50.0	50.8	
122 2,6-Dichlorophenol	162	7.229	7.229	0.000	92	58867	50.0	51.5	
121 Hexachlorobutadiene	225	7.309	7.309	0.000	96	48804	50.0	52.1	
124 Caprolactam	113	7.635	7.635	0.000	70	18443	50.0	48.6	
129 4-Chloro-3-methylphenol	107	7.827	7.827	0.000	92	66285	50.0	51.3	
131 2-Methylnaphthalene	142	7.960	7.960	0.000	89	126642	50.0	51.9	
251 1-Methylnaphthalene	142	8.078	8.078	0.000	96	116742	50.0	52.3	
134 Hexachlorocyclopentadiene	237	8.164	8.164	0.000	97	52291	50.0	48.0	
135 1,2,4,5-Tetrachlorobenzene	216	8.169	8.169	0.000	98	71790	50.0	50.8	
137 2,4,6-Trichlorophenol	196	8.308	8.308	0.000	97	43872	50.0	46.8	
138 2,4,5-Trichlorophenol	196	8.350	8.350	0.000	91	47084	50.0	48.3	
140 1,1'-Biphenyl	154	8.516	8.516	0.000	96	161930	50.0	50.4	
141 2-Chloronaphthalene	162	8.527	8.527	0.000	99	126913	50.0	49.2	
143 2-Nitroaniline	65	8.660	8.660	0.000	74	51280	50.0	49.5	
146 Dimethyl phthalate	163	8.895	8.895	0.000	97	149088	50.0	50.5	
148 1,3-Dinitrobenzene	168	8.911	8.911	0.000	79	24165	50.0	52.7	
149 2,6-Dinitrotoluene	165	8.954	8.954	0.000	81	33445	50.0	49.5	
150 Acenaphthylene	152	9.008	9.008	0.000	98	182124	50.0	49.1	
151 3-Nitroaniline	138	9.141	9.141	0.000	87	34755	50.0	49.0	
152 Acenaphthene	153	9.211	9.211	0.000	95	121956	50.0	49.1	
153 2,4-Dinitrophenol	184	9.269	9.269	0.000	79	43295	100.0	92.9	
154 4-Nitrophenol	109	9.376	9.376	0.000	92	60568	100.0	99.1	
155 Dibenzofuran	168	9.414	9.414	0.000	94	178654	50.0	50.6	
156 2,4-Dinitrotoluene	165	9.419	9.419	0.000	79	44934	50.0	50.1	
158 2,3,4,6-Tetrachlorophenol	232	9.574	9.574	0.000	74	40955	50.0	51.0	
161 Diethyl phthalate	149	9.723	9.723	0.000	96	151183	50.0	51.5	
256 Hexadecane	57	9.761	9.761	0.000	67	126562	50.0	50.9	
162 Fluorene	166	9.809	9.809	0.000	95	144000	50.0	51.1	
163 4-Chlorophenyl phenyl ethe	204	9.825	9.825	0.000	97	71632	50.0	49.5	
164 4-Nitroaniline	138	9.852	9.852	0.000	73	32261	50.0	46.2	
165 4,6-Dinitro-2-methylphenol	198	9.894	9.894	0.000	78	58314	100.0	98.4	
168 N-Nitrosodiphenylamine	169	9.964	9.964	0.000	65	108534	50.0	50.0	
169 Diphenylamine	169	9.964	9.964	0.000	93	108534	42.8	42.7	
171 Azobenzene	77	10.001	10.001	0.000	97	184128	50.0	51.7	
170 1,2-Diphenylhydrazine	77	10.001	10.001	0.000	95	184128	50.0	51.8	
175 4-Bromophenyl phenyl ether	248	10.359	10.359	0.000	73	47235	50.0	52.8	
179 Hexachlorobenzene	284	10.423	10.423	0.000	93	47869	50.0	50.9	
180 Atrazine	200	10.557	10.557	0.000	89	43263	50.0	51.2	
183 Pentachlorophenol	266	10.632	10.632	0.000	90	56206	100.0	96.1	
265 n-Octadecane	57	10.754	10.754	0.000	88	123397	50.0	50.5	
188 Phenanthrene	178	10.829	10.829	0.000	98	211444	50.0	51.8	
189 Anthracene	178	10.877	10.877	0.000	98	217995	50.0	51.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.048	11.048	0.000	97	183525	50.0	50.6	
195 Di-n-butyl phthalate	149	11.406	11.406	0.000	99	244608	50.0	50.6	
201 Fluoranthene	202	11.951	11.951	0.000	97	244498	50.0	52.8	
202 Benzidine	184	12.079	12.079	0.000	99	139131	50.0	43.2	
204 Pyrene	202	12.149	12.149	0.000	98	257062	50.0	50.3	
210 Butyl benzyl phthalate	149	12.726	12.726	0.000	98	108183	50.0	48.6	
215 3,3'-Dichlorobenzidine	252	13.164	13.164	0.000	74	87629	50.0	49.1	
217 Benzo[a]anthracene	228	13.180	13.180	0.000	97	258145	50.0	51.5	
216 Bis(2-ethylhexyl) phthalat	149	13.207	13.207	0.000	96	160712	50.0	50.1	
218 Chrysene	228	13.212	13.212	0.000	96	242282	50.0	50.7	
220 Di-n-octyl phthalate	149	13.725	13.725	0.000	99	262489	50.0	49.0	
221 Benzo[b]fluoranthene	252	14.045	14.045	0.000	96	255050	50.0	50.1	
222 Benzo[k]fluoranthene	252	14.067	14.067	0.000	99	255462	50.0	51.6	
225 Benzo[a]pyrene	252	14.291	14.291	0.000	75	237078	50.0	51.1	
227 Indeno[1,2,3-cd]pyrene	276	15.210	15.210	0.000	98	283275	50.0	51.5	
228 Dibenz(a,h)anthracene	278	15.215	15.215	0.000	87	237469	50.0	51.8	
229 Benzo[g,h,i]perylene	276	15.461	15.461	0.000	97	243155	50.0	51.2	

Reagents:

MB_LIST1_WRK_00476	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00037	Amount Added: 20.00	Units: uL	Run Reagent

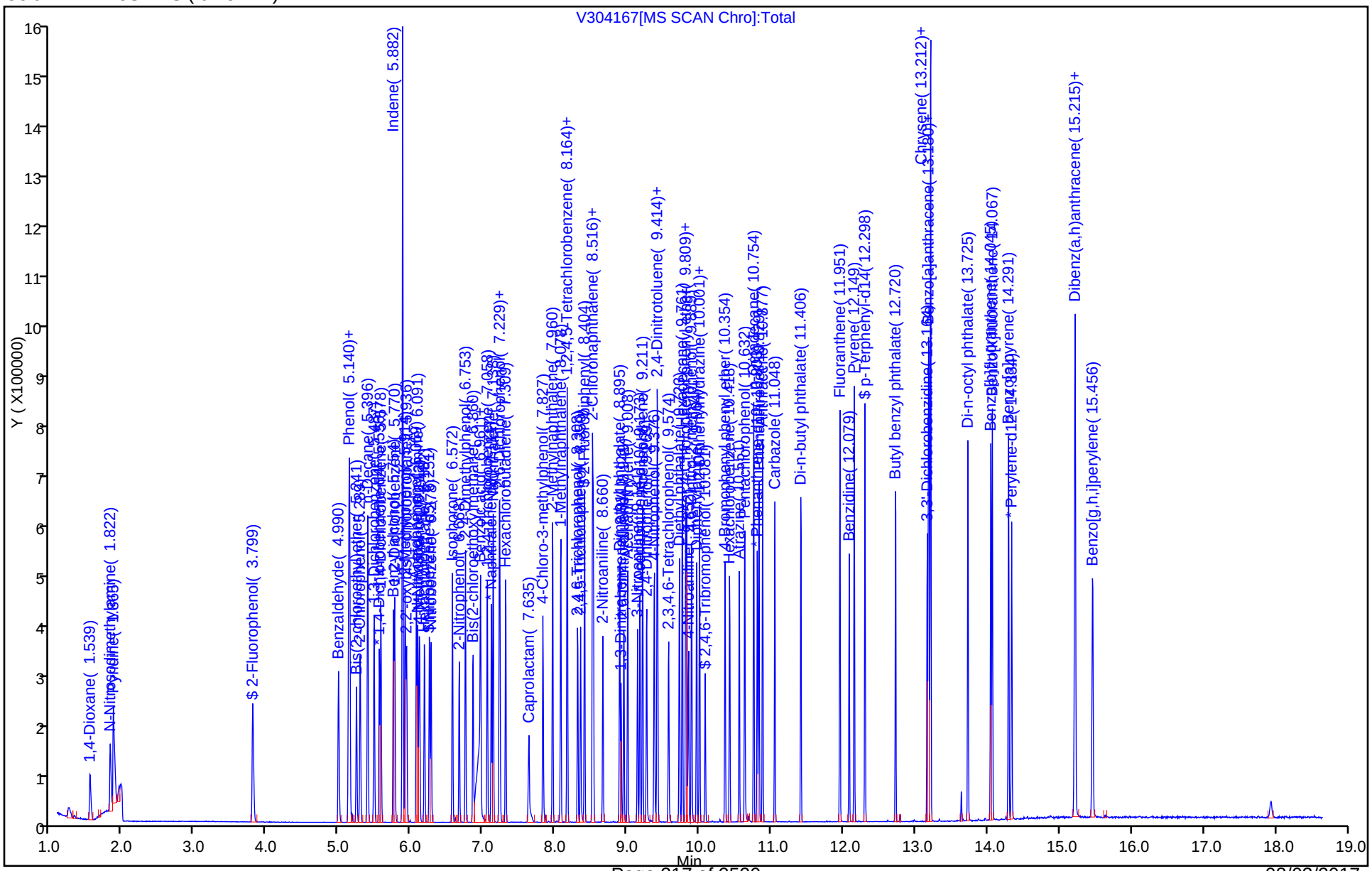
Report Date: 24-Jul-2017 14:05:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304167.D

Injection Date:	24-Jul-2017 13:40:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303867.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 06-Jul-2017 14:43:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0063851-002
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 07-Jul-2017 09:32:08 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: quirkp Date: 07-Jul-2017 09:32:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Pentachlorophenol_T	266	10.653	10.653	0.000	91	29925	NR	NR	
112 DFTPP									
128 Benzidine_T	184	12.106	12.106	0.000	99	203064	NR	NR	
136 4,4'-DDD	235		12.720					ND	
139 4,4'-DDT	235	12.822	12.822	0.000	97	99950	NR	NR	
130 4,4'-DDE	246		12.827					ND	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

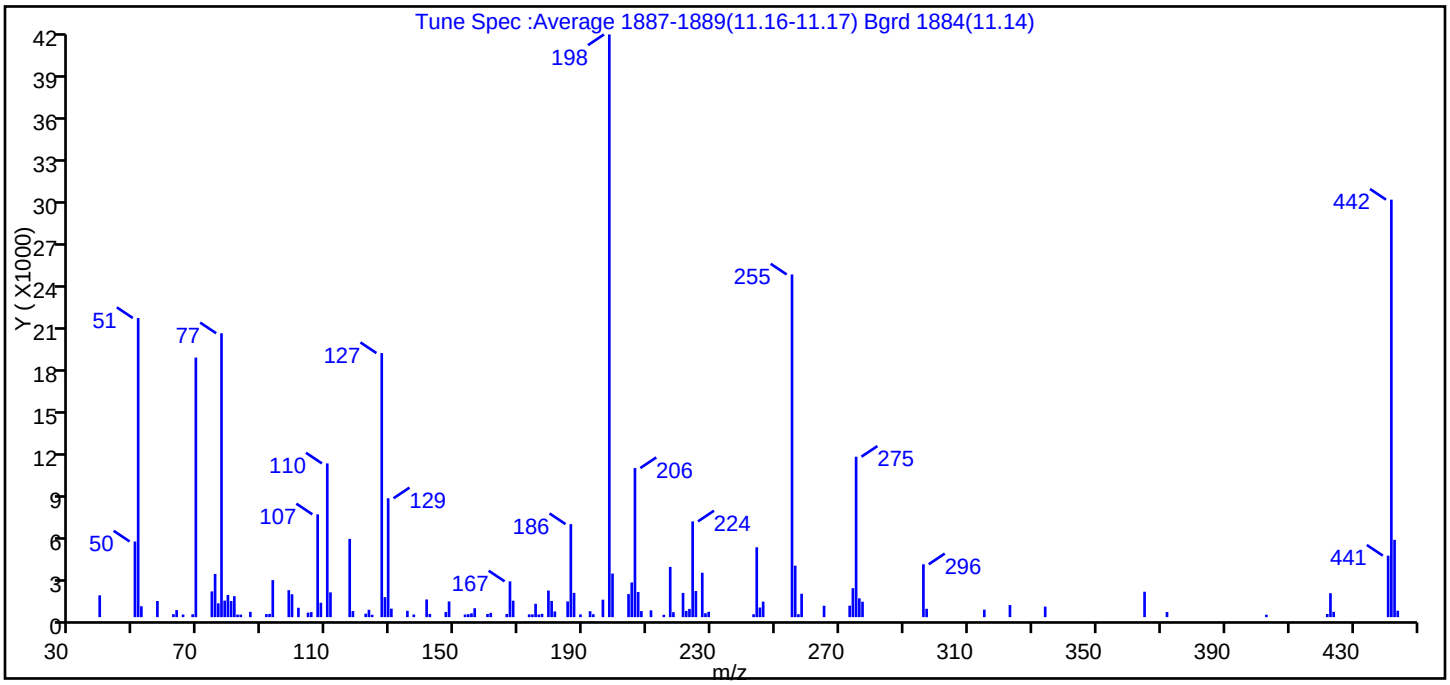
MB_DFTPP_WRK_00312 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303867.D
Injection Date: 06-Jul-2017 14:43:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

112 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (139.6)
51	10-80% of the base peak	51.3
68	<2% of mass 69	0.5 (1.1)
69	Present	44.6
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	45.3
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.5
275	10-60% of the base peak	27.5
365	>1% of mass 198	4.4
441	present but <24% of mass 442	10.6 (14.7)
442	base peak, or >50% of 198	71.7
443	15-24% of mass 442	13.3 (18.5)

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303867.D\V-8270.rslt\spectra.d
Injection Date: 06-Jul-2017 14:43:30
Spectrum: Tune Spec :Average 1887-1889(11.16-11.17) Bgrd 1884(11.14)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 120

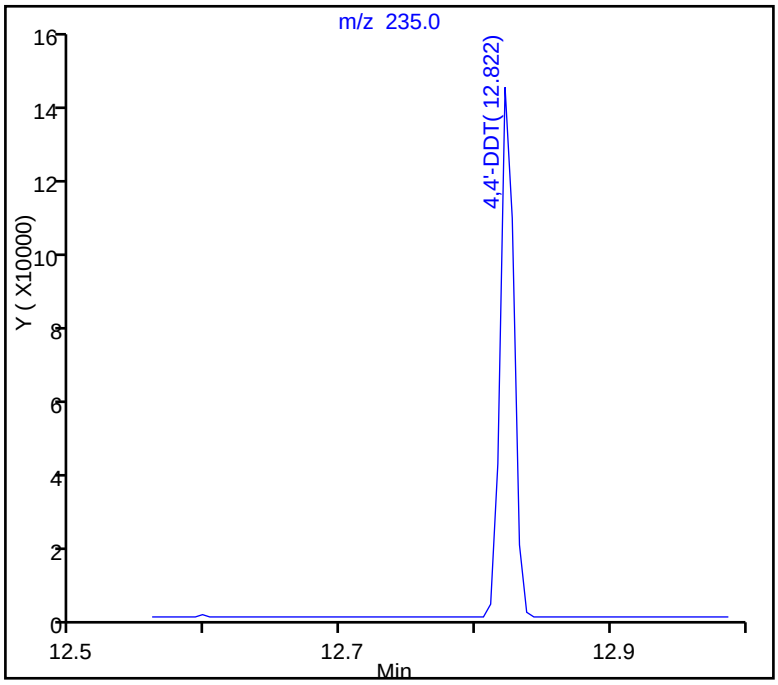
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1559	108.00	1029	176.00	192	229.00	381
50.00	5406	110.00	10982	177.00	232	243.00	206
51.00	21368	111.00	1770	179.00	1898	244.00	4991
52.00	778	117.00	5589	180.00	1156	245.00	688
57.00	1154	118.00	434	181.00	407	246.00	1108
62.00	210	122.00	248	185.00	1126	255.00	24480
63.00	506	123.00	525	186.00	6647	256.00	3678
65.00	187	124.00	168	187.00	1733	257.00	211
68.00	205	127.00	18864	189.00	195	258.00	1674
69.00	18544	128.00	1427	192.00	425	265.00	813
74.00	1839	129.00	8491	193.00	206	273.00	820
75.00	3085	130.00	606	196.00	1249	274.00	2067
76.00	990	135.00	451	198.00	41624	275.00	11460
77.00	20280	137.00	187	199.00	3113	276.00	1346
78.00	1182	141.00	1263	204.00	1648	277.00	1102
79.00	1586	142.00	229	205.00	2479	296.00	3777
80.00	1154	147.00	371	206.00	10649	297.00	596
81.00	1498	148.00	1122	207.00	1798	315.00	532
82.00	182	153.00	189	208.00	435	323.00	864
83.00	179	154.00	213	211.00	487	334.00	753
86.00	378	155.00	273	215.00	166	365.00	1815
91.00	218	156.00	638	217.00	3590	372.00	368
92.00	236	160.00	225	218.00	354	403.00	174
93.00	2645	161.00	304	221.00	1731	422.00	224
98.00	1925	166.00	227	222.00	446	423.00	1713
99.00	1636	167.00	2556	223.00	591	424.00	380
101.00	669	168.00	1174	224.00	6840	441.00	4394
104.00	323	173.00	197	225.00	1867	442.00	29824
105.00	356	174.00	198	227.00	3171	443.00	5524
107.00	7345	175.00	954	228.00	280	444.00	457

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303867.D
Injection Date: 06-Jul-2017 14:43:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

139 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

139 4,4'-DDT, Area = 99950
136 4,4'-DDD, Area = 0
130 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

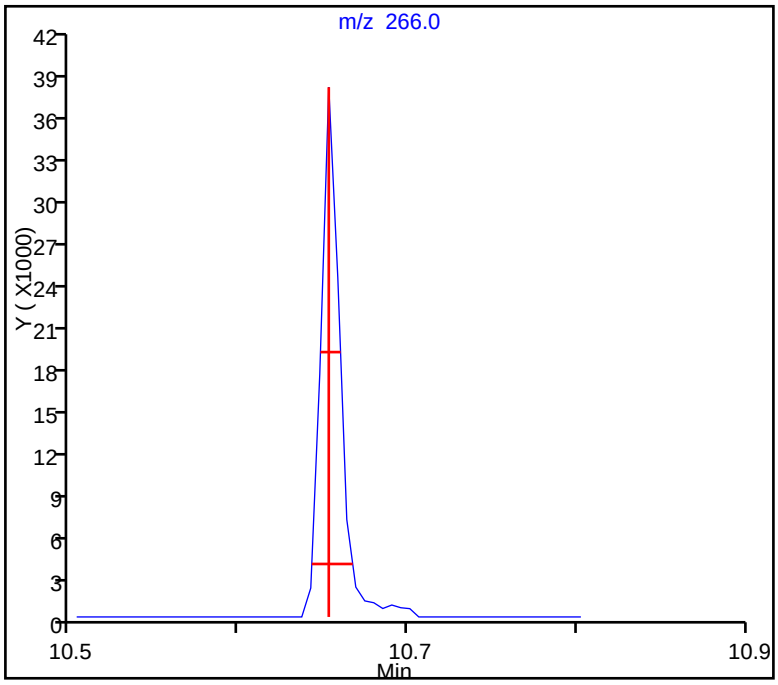
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303867.D
Injection Date: 06-Jul-2017 14:43:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

104 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

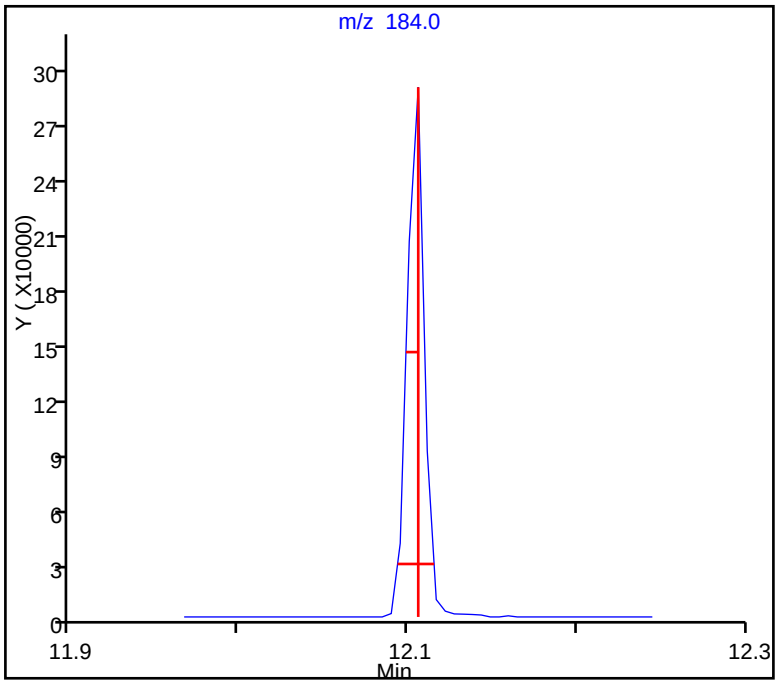
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303867.D
Injection Date: 06-Jul-2017 14:43:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

128 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304166.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 24-Jul-2017 13:15:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064281-002
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 24-Jul-2017 13:36:10 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: quirkp Date: 24-Jul-2017 13:36:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Pentachlorophenol_T	266	10.626	10.626	0.000	91	21403	NR	NR	
112 DFTPP									
128 Benzidine_T	184	12.079	12.079	0.000	99	155480	NR	NR	
136 4,4'-DDD	235		12.720					ND	
139 4,4'-DDT	235	12.795	12.795	0.000	96	81059	NR	NR	
130 4,4'-DDE	246		12.817					ND	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

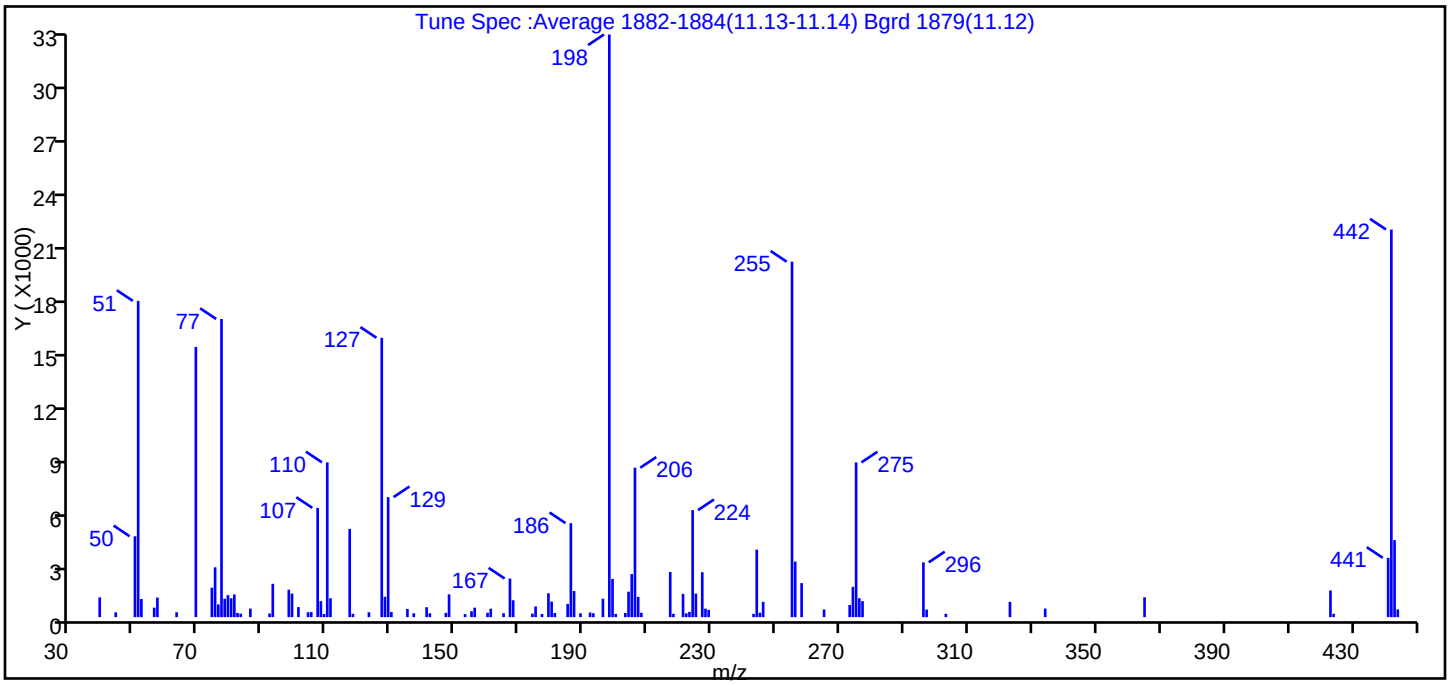
MB_DFTPP_WRK_00312 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304166.D
Injection Date: 24-Jul-2017 13:15:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

112 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (150.3)
51	10-80% of the base peak	54.3
68	<2% of mass 69	0.0 (0.0)
69	Present	46.4
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	47.9
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.6
275	10-60% of the base peak	26.6
365	>1% of mass 198	3.4
441	present but <24% of mass 442	10.2 (15.3)
442	base peak, or >50% of 198	66.5
443	15-24% of mass 442	13.2 (19.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304166.D\V-8270.rslt\spectra.d
Injection Date: 24-Jul-2017 13:15:30
Spectrum: Tune Spec :Average 1882-1884(11.13-11.14) Bgrd 1879(11.12)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 110

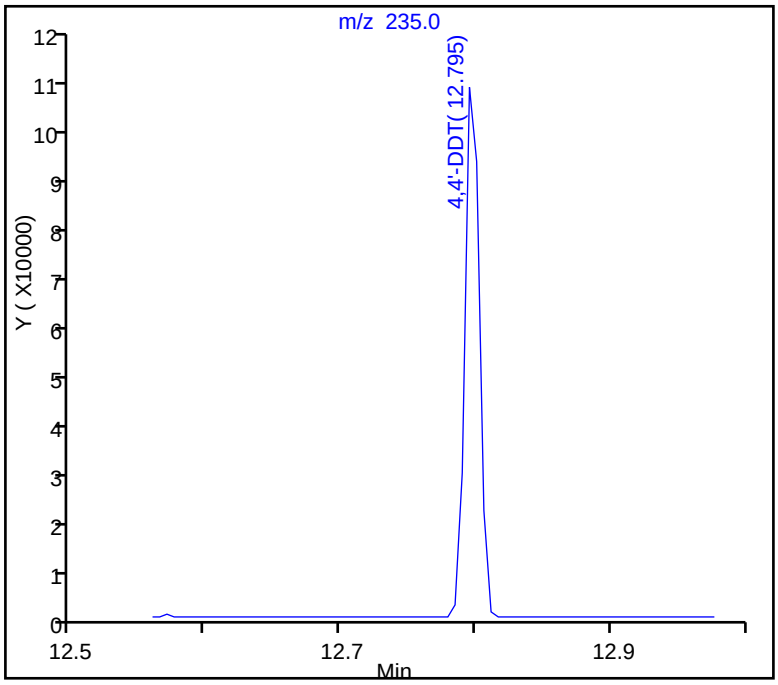
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1099	108.00	893	179.00	1329	229.00	402
44.00	268	109.00	173	180.00	868	243.00	181
50.00	4505	110.00	8623	181.00	228	244.00	3762
51.00	17616	111.00	1054	185.00	738	245.00	243
52.00	1011	117.00	4916	186.00	5237	246.00	852
56.00	530	118.00	187	187.00	1455	255.00	19800
57.00	1092	123.00	273	189.00	217	256.00	3092
63.00	274	127.00	15562	192.00	259	258.00	1896
69.00	15052	128.00	1133	193.00	217	265.00	426
74.00	1640	129.00	6684	196.00	1026	273.00	676
75.00	2777	130.00	285	198.00	32456	274.00	1688
76.00	708	135.00	456	199.00	2131	275.00	8619
77.00	16608	137.00	213	200.00	180	276.00	1054
78.00	1025	141.00	552	203.00	233	277.00	893
79.00	1226	142.00	215	204.00	1417	296.00	3054
80.00	1050	147.00	237	205.00	2400	297.00	420
81.00	1261	148.00	1268	206.00	8324	303.00	185
82.00	235	153.00	168	207.00	1128	323.00	853
83.00	190	155.00	328	208.00	241	334.00	477
86.00	476	156.00	528	217.00	2511	365.00	1106
92.00	203	160.00	242	218.00	184	423.00	1486
93.00	1858	161.00	469	221.00	1295	424.00	187
98.00	1530	165.00	221	222.00	215	441.00	3303
99.00	1313	167.00	2151	223.00	291	442.00	21592
101.00	562	168.00	940	224.00	5960	443.00	4290
104.00	273	174.00	196	225.00	1310	444.00	430
105.00	281	175.00	593	227.00	2504		
107.00	6086	177.00	177	228.00	472		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304166.D
Injection Date: 24-Jul-2017 13:15:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

139 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

139 4,4'-DDT, Area = 81059
136 4,4'-DDD, Area = 0
130 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

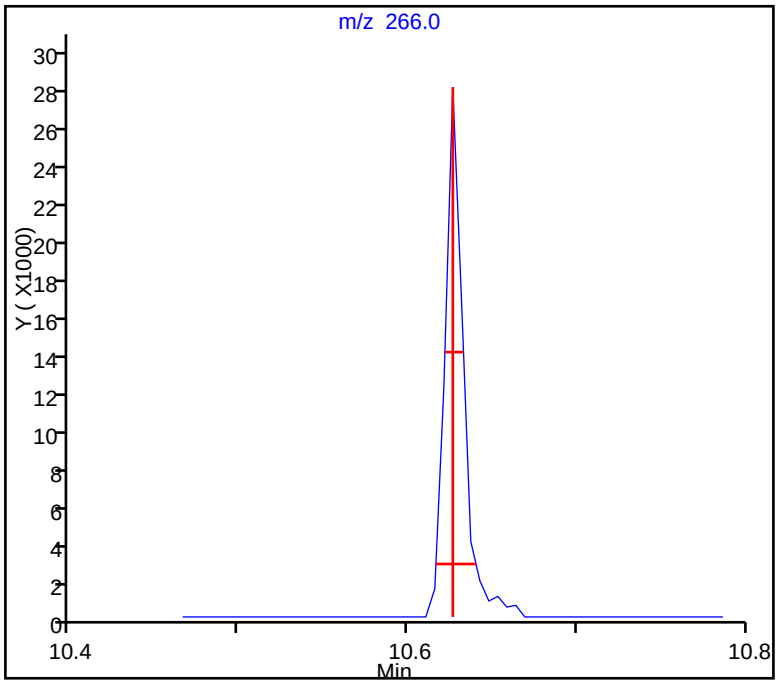
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304166.D
Injection Date: 24-Jul-2017 13:15:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

104 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

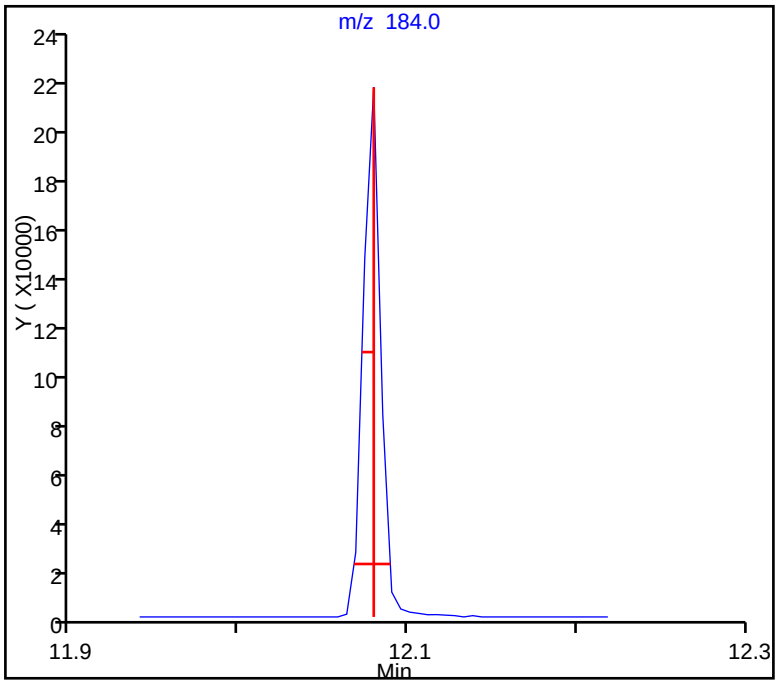
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304166.D
Injection Date: 24-Jul-2017 13:15:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

128 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 0.8, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368148/1-A

Matrix: Solid | Lab File ID: V304169.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.28(g) | Date Analyzed: 07/24/2017 14:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		170	25
108-60-1	bis (2-chloroisopropyl) ether	ND		170	34
95-95-4	2,4,5-Trichlorophenol	ND		170	46
88-06-2	2,4,6-Trichlorophenol	ND		170	34
120-83-2	2,4-Dichlorophenol	ND		170	18
105-67-9	2,4-Dimethylphenol	ND		170	41
51-28-5	2,4-Dinitrophenol	ND		1600	780
121-14-2	2,4-Dinitrotoluene	ND		170	35
606-20-2	2,6-Dinitrotoluene	ND		170	20
91-58-7	2-Chloronaphthalene	ND		170	28
95-57-8	2-Chlorophenol	ND		170	31
91-57-6	2-Methylnaphthalene	ND		170	34
95-48-7	2-Methylphenol	ND		170	20
88-74-4	2-Nitroaniline	ND		330	25
88-75-5	2-Nitrophenol	ND		170	48
91-94-1	3,3'-Dichlorobenzidine	ND		330	200
99-09-2	3-Nitroaniline	ND		330	47
534-52-1	4,6-Dinitro-2-methylphenol	ND		330	170
101-55-3	4-Bromophenyl phenyl ether	ND		170	24
59-50-7	4-Chloro-3-methylphenol	ND		170	42
106-47-8	4-Chloroaniline	ND		170	42
7005-72-3	4-Chlorophenyl phenyl ether	ND		170	21
106-44-5	4-Methylphenol	ND		330	20
100-01-6	4-Nitroaniline	ND		330	88
100-02-7	4-Nitrophenol	ND		330	120
83-32-9	Acenaphthene	ND		170	25
208-96-8	Acenaphthylene	ND		170	22
98-86-2	Acetophenone	ND		170	23
120-12-7	Anthracene	ND		170	42
1912-24-9	Atrazine	ND		170	58
100-52-7	Benzaldehyde	ND		170	130
56-55-3	Benzo(a)anthracene	ND		170	17
50-32-8	Benzo(a)pyrene	ND		170	25
205-99-2	Benzo(b)fluoranthene	ND		170	27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368148/1-A

Matrix: Solid | Lab File ID: V304169.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.28(g) | Date Analyzed: 07/24/2017 14:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		170	18
207-08-9	Benzo(k)fluoranthene	ND		170	22
111-91-1	Bis(2-chloroethoxy)methane	ND		170	36
111-44-4	Bis(2-chloroethyl)ether	ND		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	ND		170	57
85-68-7	Butyl benzyl phthalate	ND		170	28
105-60-2	Caprolactam	ND		170	51
86-74-8	Carbazole	ND		170	20
218-01-9	Chrysene	ND		170	38
84-74-2	Di-n-butyl phthalate	ND		170	29
117-84-0	Di-n-octyl phthalate	ND		170	20
53-70-3	Dibenz(a,h)anthracene	ND		170	30
132-64-9	Dibenzofuran	ND		170	20
84-66-2	Diethyl phthalate	ND		170	22
131-11-3	Dimethyl phthalate	ND		170	20
206-44-0	Fluoranthene	ND		170	18
86-73-7	Fluorene	ND		170	20
118-74-1	Hexachlorobenzene	ND		170	23
87-68-3	Hexachlorobutadiene	ND		170	25
77-47-4	Hexachlorocyclopentadiene	ND		170	23
67-72-1	Hexachloroethane	ND		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		170	21
78-59-1	Isophorone	ND		170	36
621-64-7	N-Nitrosodi-n-propylamine	ND		170	29
86-30-6	N-Nitrosodiphenylamine	ND		170	140
91-20-3	Naphthalene	ND		170	22
98-95-3	Nitrobenzene	ND		170	19
87-86-5	Pentachlorophenol	ND		330	170
85-01-8	Phenanthrene	ND		170	25
108-95-2	Phenol	ND		170	26
129-00-0	Pyrene	ND		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368148/1-A

Matrix: Solid | Lab File ID: V304169.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.28(g) | Date Analyzed: 07/24/2017 14:33

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	77		54-120
321-60-8	2-Fluorobiphenyl	82		60-120
367-12-4	2-Fluorophenol	81		52-120
4165-60-0	Nitrobenzene-d5	83		53-120
1718-51-0	p-Terphenyl-d14	101		65-121
4165-62-2	Phenol-d5	79		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304169.D
Lims ID: MB 480-368148/1-A
Client ID:
Sample Type: MB
Inject. Date: 24-Jul-2017 14:33:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064281-005
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Jul-2017 11:04:43 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: quirkp Date: 25-Jul-2017 11:04:42

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.556	5.556	0.000	96	54373	40.0	40.0	
*	2 Naphthalene-d8	136	7.111	7.111	0.000	99	189208	40.0	40.0	
*	3 Acenaphthene-d10	164	9.173	9.173	0.000	96	95521	40.0	40.0	
*	4 Phenanthrene-d10	188	10.802	10.803	-0.001	97	184743	40.0	40.0	
*	5 Chrysene-d12	240	13.185	13.191	-0.006	97	184737	40.0	40.0	
*	6 Perylene-d12	264	14.334	14.334	0.000	100	177241	40.0	40.0	
$	7 2-Fluorophenol	112	3.810	3.799	0.011	95	60390	40.0	32.2	
$	8 Phenol-d5	99	5.129	5.129	0.000	92	75959	40.0	31.6	
$	9 Nitrobenzene-d5	82	6.251	6.251	0.000	96	77948	40.0	33.1	
$	10 2-Fluorobiphenyl	172	8.404	8.404	0.000	100	131472	40.0	32.6	
$	11 2,4,6-Tribromophenol	330	10.081	10.081	0.000	91	17258	40.0	30.9	
$	12 p-Terphenyl-d14	244	12.298	12.298	0.000	99	153595	40.0	40.2	
	68 1,4-Dioxane	88		1.539					ND	
	69 N-Nitrosodimethylamine	42		1.822					ND	
	70 Pyridine	52		1.865					ND	
	25 5-Ethyl-5-phenyl barbituri	1		2.170					ND	
	15 Lidocaine	1		2.170					ND	
	33 2-Chlorotoluene	91		2.170					ND	
	52 Chlorotoluene N.O.S	1		2.170					ND	
	59 o-Anisidine	1		2.170					ND	
	49 Chlorobenzotrifluoride N.O	1		2.170					ND	
	72 2-Picoline	93		2.880					ND	
	73 N-Nitrosomethylethylamine	88		3.062					ND	
	249 Acrylamide	44		3.558					ND	
	74 Methyl methanesulfonate	80		3.569					ND	
	77 N-Nitrosodiethylamine	102		4.151					ND	
	78 Ethyl methanesulfonate	79		4.595					ND	
	80 Benzaldehyde	77		4.990					ND	
	82 Aniline	93		5.140					ND	
	81 Phenol	94		5.145					ND	
	85 Pentachloroethane	167		5.220					ND	
	83 Bis(2-chloroethyl)ether	93		5.241					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
84 2-Chlorophenol	128		5.289					ND	
263 n-Decane	57		5.396					ND	
87 1,3-Dichlorobenzene	146		5.487					ND	
88 1,4-Dichlorobenzene	146		5.578					ND	
90 Benzyl alcohol	108		5.754					ND	
91 1,2-Dichlorobenzene	146		5.770					ND	
248 Indene	115		5.882					ND	
92 2-Methylphenol	108		5.914					ND	
93 2,2'-oxybis[1-chloropropan	45		5.936					ND	
97 N-Nitrosopyrrolidine	100		6.064					ND	
94 Acetophenone	105		6.075					ND	
95 N-Nitrosodi-n-propylamine	70		6.091					ND	
96 4-Methylphenol	108		6.112					ND	
98 N-Nitrosomorpholine	56		6.117					ND	
101 4-Methylbenzenamine	106		6.128					ND	
100 2-Toluidine	106		6.144					ND	
99 Hexachloroethane	117		6.182					ND	
102 Nitrobenzene	77		6.278					ND	
105 N-Nitrosopiperidine	114		6.481					ND	
106 Isophorone	82		6.572					ND	
17 2,4-Dichlorotoluene	125		6.593					ND	
109 2-Chloroaniline	127		6.625					ND	
107 2-Nitrophenol	139		6.668					ND	
75 4-Chloropyridine	78		6.691					ND	
58 1,3,5-Trichlorobenzene	180		6.710					ND	
108 2,4-Dimethylphenol	107		6.753					ND	
76 3-Chloropyridine	78		6.768					ND	
110 Tetraethyl lead	237		6.791					ND	
113 o,o',o''-Triethylphosphoro	198		6.860					ND	
111 Bis(2-chloroethoxy)methane	93		6.860					ND	
115 Benzoic acid	105		6.956					ND	
114 2,4-Dichlorophenol	162		6.961					ND	
116 alpha,alpha-Dimethyl phene	58		7.026					ND	
117 1,2,4-Trichlorobenzene	180		7.058					ND	
118 Naphthalene	128		7.138					ND	
37 4-Chlorophenol	128		7.170					ND	
120 Alpha-Terpineol	59		7.170					ND	
119 4-Chloroaniline	127		7.223					ND	
122 2,6-Dichlorophenol	162		7.229					ND	
79 2-Chloropyridine	78		7.254					ND	
123 Hexachloropropene	213		7.282					ND	
121 Hexachlorobutadiene	225		7.309					ND	
125 Quinoline	129		7.560					ND	
124 Caprolactam	113		7.635					ND	
126 p-Phenylene diamine	108		7.667					ND	
127 N-Nitrosodi-n-butylamine	84		7.667					ND	
129 4-Chloro-3-methylphenol	107		7.827					ND	
267 CBF-400	214		7.900					ND	
132 Safrole, Total	162		7.907					ND	
272 2,4,5-Trichlorotoluene	159		7.950					ND	
131 2-Methylnaphthalene	142		7.960					ND	
86 p-Fluoroaniline	111		7.970					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
133 Phthalic anhydride	104		8.046					ND	
251 1-Methylnaphthalene	142		8.078					ND	
134 Hexachlorocyclopentadiene	237		8.164					ND	
135 1,2,4,5-Tetrachlorobenzene	216		8.169					ND	
291 Isosafrole Peak 1	162		8.249					ND	
274 2,3-Dichlorobenzenamine	161		8.297					ND	
137 2,4,6-Trichlorophenol	196		8.308					ND	
138 2,4,5-Trichlorophenol	196		8.350					ND	
293 Isosafrole Peak 2	162		8.516					ND	
142 Isosafrole	162		8.516					ND	
140 1,1'-Biphenyl	154		8.516					ND	
275 1,2,3,4 -Tetrachlorobenzen	216		8.521					ND	
141 2-Chloronaphthalene	162		8.527					ND	
253 1-Chloronaphthalene	162		8.580					ND	
13 N-Methylaniline	106		8.589					ND	
143 2-Nitroaniline	65		8.660					ND	
145 1,4-Naphthoquinone	158		8.762					ND	
144 Dicyclohexylamine	138		8.762					ND	
147 1,4-Dinitrobenzene	168		8.847					ND	
103 2,6-Dichloropyridine	112		8.872					ND	
146 Dimethyl phthalate	163		8.895					ND	
148 1,3-Dinitrobenzene	168		8.911					ND	
149 2,6-Dinitrotoluene	165		8.954					ND	
150 Acenaphthylene	152		9.008					ND	
151 3-Nitroaniline	138		9.141					ND	
152 Acenaphthene	153		9.211					ND	
153 2,4-Dinitrophenol	184		9.269					ND	
154 4-Nitrophenol	109		9.376					ND	
157 Pentachlorobenzene	250		9.408					ND	
155 Dibenzofuran	168		9.414					ND	
156 2,4-Dinitrotoluene	165		9.419					ND	
159 1-Naphthylamine	143		9.531					ND	
264 2,3,5,6-Tetrachlorophenol	232		9.552					ND	
158 2,3,4,6-Tetrachlorophenol	232		9.574					ND	
160 2-Naphthylamine	143		9.627					ND	
161 Diethyl phthalate	149		9.723					ND	
256 Hexadecane	57		9.761					ND	
162 Fluorene	166		9.809					ND	
163 4-Chlorophenyl phenyl ethe	204		9.825					ND	
166 Thionazin	97		9.830					ND	
164 4-Nitroaniline	138		9.852					ND	
167 N-Nitro-o-toluidine	152		9.862					ND	
165 4,6-Dinitro-2-methylphenol	198		9.894					ND	
168 N-Nitrosodiphenylamine	169		9.964					ND	
169 Diphenylamine	169		9.964					ND	
172 Tributyl phosphate	99		9.980					ND	
171 Azobenzene	77		10.001					ND	
170 1,2-Diphenylhydrazine	77		10.001					ND	
230 Benzeneacetic acid (TIC)	91		10.016					ND	
266 NVF-400	82		10.154					ND	
35 n,n'-Dimethylacetamide	44		10.170					ND	
173 Sulfotepp	322		10.188					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
174 1,3,5-Trinitrobenzene	213		10.300					ND	
177 Phorate	75		10.316					ND	
294 Diallate Peak 1	43		10.316					ND	
176 Diallate	43		10.316					ND	
178 Phenacetin	108		10.343					ND	
175 4-Bromophenyl phenyl ether	248		10.359					ND	
36 Benzeneacetonitrile	117		10.395					ND	
296 Diallate Peak 2	43		10.402					ND	
179 Hexachlorobenzene	284		10.423					ND	
181 Dimethoate	87		10.487					ND	
184 Simazine	201		10.520					ND	
180 Atrazine	200		10.557					ND	
183 Pentachlorophenol	266		10.632					ND	
185 4-Aminobiphenyl	169		10.653					ND	
186 Pentachloronitrobenzene	237		10.669					ND	
187 Pronamide	173		10.738					ND	
265 n-Octadecane	57		10.754					ND	
188 Phenanthrene	178		10.829					ND	
191 Dinoseb	211		10.856					ND	
190 Disulfoton	88		10.856					ND	
189 Anthracene	178		10.877					ND	
192 Carbazole	167		11.048					ND	
194 Alachlor	160		11.203					ND	
193 Methyl parathion	109		11.219					ND	
276 2-Methylanthracene	192		11.396					ND	
195 Di-n-butyl phthalate	149		11.406					ND	
196 Ethyl Parathion	97		11.588					ND	
197 4-Nitroquinoline-1-oxide	190		11.599					ND	
198 Anthraquinone	180		11.599					ND	
199 Methapyrilene	58		11.689					ND	
200 Isodrin	193		11.839					ND	
201 Fluoranthene	202		11.951					ND	
203 1-Hydroxyanthraquinone	224		11.989					ND	
202 Benzidine	184		12.079					ND	
204 Pyrene	202		12.149					ND	
44 1-Methylcyclopentanol	71		12.261					ND	
292 Aramite Peak 1	185		12.314					ND	
295 Aramite Peak 2	185		12.379					ND	
205 Aramite, Total	185		12.379					ND	
207 1,4-Dihydroxyanthraquinone	240		12.400					ND	
206 p-Dimethylamino azobenzene	120		12.448					ND	
208 Chlorobenzilate	139		12.491					ND	
211 Famphur	218		12.672					ND	
210 Butyl benzyl phthalate	149		12.726					ND	
209 3,3'-Dimethylbenzidine	212		12.736					ND	
212 9-Octadecenamide	72		12.737					ND	
213 Kepone	272		12.742					ND	
214 2-Acetylaminofluorene	181		12.945					ND	
215 3,3'-Dichlorobenzidine	252		13.164					ND	
217 Benzo[a]anthracene	228		13.180					ND	
19 4,4'-Methylene bis(2-chlor	231		13.191					ND	
216 Bis(2-ethylhexyl) phthalat	149		13.207					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
218 Chrysene	228		13.212					ND	
254 6-Methylchrysene	242		13.613					ND	
220 Di-n-octyl phthalate	149		13.725					ND	
221 Benzo[b]fluoranthene	252		14.045					ND	
223 7,12-Dimethylbenz(a)anthra	256		14.067					ND	
222 Benzo[k]fluoranthene	252		14.067					ND	
273 Benzo[e]pyrene	252		14.275					ND	
225 Benzo[a]pyrene	252		14.291					ND	
224 Hexachlorophene	196		14.312					ND	
226 3-Methylcholanthrene	252		14.590					ND	
54 Dibenz[a,h]acridine	279		15.039					ND	
227 Indeno[1,2,3-cd]pyrene	276		15.210					ND	
228 Dibenz(a,h)anthracene	278		15.215					ND	
229 Benzo[g,h,i]perylene	276		15.461					ND	
269 CN-500	112		16.569					ND	
271 CU-600	58		17.253					ND	
268 CAG-800	149		17.465					ND	
231 Dibenzo[a,e]pyrene	302		17.523					ND	
270 CBF-500	161		17.947					ND	
297 2-Aminopyridine TIC	1		0.000					ND	
261 3-Chlorobenzotrifluoride T	1		2.170					ND	
290 Photomirex TIC	1		2.170					ND	
16 Dibenzo[a,h]pyrene	1		2.170					ND	
29 2,3-Dichlorophenol	1		2.170					ND	
57 2,4-Toluene diamine	1		2.170					ND	
28 alpha,alpha-Dimethyl phene	1		2.170					ND	
22 Phenylacetic Acid	1		2.170					ND	
280 4-tert-Octylphenol	1		2.170					ND	
281 Phenyl ether	1		2.170					ND	
62 Dibenz[a,j]acridine	279		2.170					ND	
257 2,6-Dichlorotoluene TIC	1		2.170					ND	
34 3-Chlorotoluene	1		2.170					ND	
67 1-Bromopropane	1		2.170					ND	
284 4-Chloro-3-nitro-alpha,alp	1		2.170					ND	
250 n,n'-Dimethylaniline	1		2.170					ND	
41 5-Methyl-o-Anisidine	1		2.170					ND	
258 4-Chlorobenzotrifluoride T	1		2.170					ND	
282 1,2,3-Trimethylbenzene	105		2.170					ND	
39 4-Chlorotoluene	91		2.170					ND	
246 Phenylmercaptan	110		2.170					ND	
279 Benzophenone	1		2.170					ND	
21 2,6-Dichlorotoluene	1		2.170					ND	
42 2-Chlorobenzotrifluoride	1		2.170					ND	
61 4-Chlorobenzotrifluoride	1		2.170					ND	
260 2,4-Dichlorotoluene TIC	1		2.170					ND	
30 3-Chlorobenzotrifluoride	1		2.170					ND	
56 7H-Dibenzo[c,g]carbazole	1		2.170					ND	
255 Dibenz(a,i)pyrene	1		2.170					ND	
247 Octachlorostyrene	1		2.170					ND	
31 Pendimethalin	1		2.170					ND	
259 2-Chlorobenzotrifluoride T	1		2.170					ND	
65 Hexamethyldisiloxane TIC	1		2.170					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
289 1,4-Dioxane TIC	1		2.170					ND	
38 Tetramethyl lead TIC	1		2.170					ND	
104 Pentachlorophenol_T	266		10.626					ND	
128 Benzidine_T	184		12.079					ND	
S 245 EPH Adjustment 1	1		2.170					ND	
S 232 Total Cresols	1		2.170					ND	
S 233 3-Methylphenol	1		8.667					ND	
S 234 3 & 4 Methylphenol	108		8.667					ND	
T 235 Benefin (TIC)	1		2.170					ND	
T 14 2,4-Xylidine TIC	121	8.404	2.170	6.234	5	438		0.1834	
T 236 Prometryn (TIC)	1		2.170					ND	
T 24 o-Anisidine TIC	108		2.170					ND	
T 55 5-Methyl-o-Anisidine TIC	122	12.298	2.170	10.128	1	15703		6.58	
T 64 Tris(2,3-dibromopropyl)pho	201		2.170					ND	
T 237 Pendimethalin (TIC)	252		2.170					ND	
T 18 4,4'-Methylene bis(2-chlor	231		2.170					ND	
T 23 1,3-phenylenediamine TIC	108	7.111	7.223	-0.112	29	27728		11.6	
T 238 1-Methylnaphthalene (TIC)	142		10.666					ND	
T 27 2,3,7,8-TCDD	322		11.700					ND	
T 239 trans Azobenzene (TIC)	1		12.861					ND	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

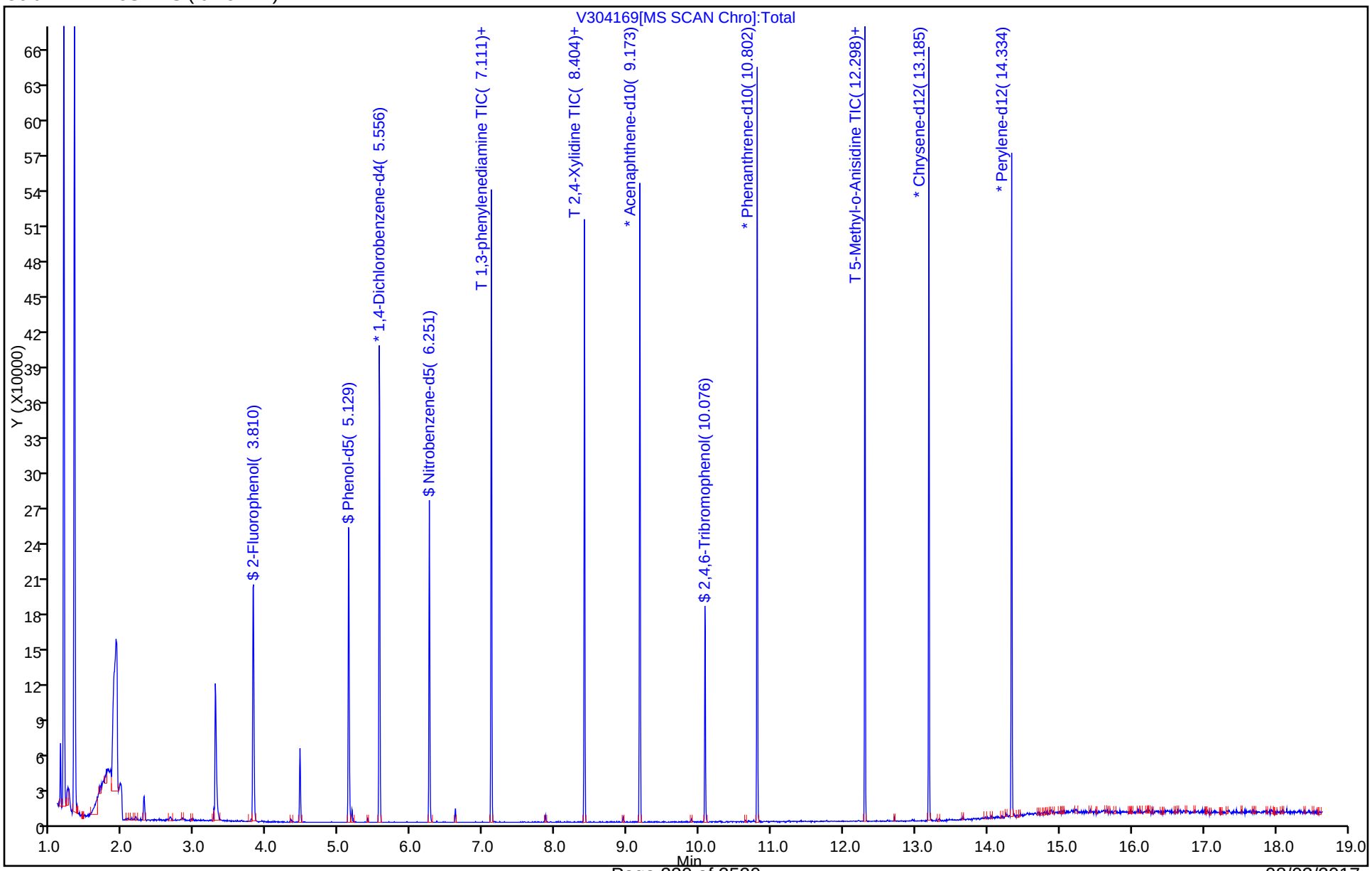
Report Date: 25-Jul-2017 11:04:43 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304169.D

Injection Date:	24-Jul-2017 14:33:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	MB 480-368148/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368148/2-A

Matrix: Solid | Lab File ID: V304170.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.33(g) | Date Analyzed: 07/24/2017 15:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1490		170	25
108-60-1	bis (2-chloroisopropyl) ether	1510		170	34
95-95-4	2,4,5-Trichlorophenol	1490		170	45
88-06-2	2,4,6-Trichlorophenol	1540		170	34
120-83-2	2,4-Dichlorophenol	1490		170	18
105-67-9	2,4-Dimethylphenol	1570		170	41
51-28-5	2,4-Dinitrophenol	2880		1600	780
121-14-2	2,4-Dinitrotoluene	1590		170	35
606-20-2	2,6-Dinitrotoluene	1490		170	20
91-58-7	2-Chloronaphthalene	1470		170	28
95-57-8	2-Chlorophenol	1420		170	31
91-57-6	2-Methylnaphthalene	1450		170	34
95-48-7	2-Methylphenol	1510		170	20
88-74-4	2-Nitroaniline	1600		330	25
88-75-5	2-Nitrophenol	1440		170	47
91-94-1	3,3'-Dichlorobenzidine	2860		330	200
99-09-2	3-Nitroaniline	1420		330	46
534-52-1	4,6-Dinitro-2-methylphenol	2940		330	170
101-55-3	4-Bromophenyl phenyl ether	1630		170	24
59-50-7	4-Chloro-3-methylphenol	1500		170	42
106-47-8	4-Chloroaniline	1300		170	42
7005-72-3	4-Chlorophenyl phenyl ether	1560		170	21
106-44-5	4-Methylphenol	1490		330	20
100-01-6	4-Nitroaniline	1480		330	88
100-02-7	4-Nitrophenol	3210		330	120
83-32-9	Acenaphthene	1500		170	25
208-96-8	Acenaphthylene	1500		170	22
98-86-2	Acetophenone	1460		170	23
120-12-7	Anthracene	1660		170	42
1912-24-9	Atrazine	3580		170	58
100-52-7	Benzaldehyde	2260		170	130
56-55-3	Benzo(a)anthracene	1660		170	17
50-32-8	Benzo(a)pyrene	1680		170	25
205-99-2	Benzo(b)fluoranthene	1670		170	27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368148/2-A

Matrix: Solid | Lab File ID: V304170.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.33(g) | Date Analyzed: 07/24/2017 15:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1690		170	18
207-08-9	Benzo(k)fluoranthene	1650		170	22
111-91-1	Bis(2-chloroethoxy)methane	1460		170	36
111-44-4	Bis(2-chloroethyl)ether	1400		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	1630		170	57
85-68-7	Butyl benzyl phthalate	1630		170	28
105-60-2	Caprolactam	3020		170	50
86-74-8	Carbazole	1650		170	20
218-01-9	Chrysene	1610		170	38
84-74-2	Di-n-butyl phthalate	1650		170	29
117-84-0	Di-n-octyl phthalate	1680		170	20
53-70-3	Dibenz(a,h)anthracene	1710		170	30
132-64-9	Dibenzofuran	1520		170	20
84-66-2	Diethyl phthalate	1610		170	22
131-11-3	Dimethyl phthalate	1580		170	20
206-44-0	Fluoranthene	1690		170	18
86-73-7	Fluorene	1530		170	20
118-74-1	Hexachlorobenzene	1690		170	23
87-68-3	Hexachlorobutadiene	1390		170	25
77-47-4	Hexachlorocyclopentadiene	1410		170	23
67-72-1	Hexachloroethane	1320		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	1710		170	21
78-59-1	Isophorone	1520		170	36
621-64-7	N-Nitrosodi-n-propylamine	1430		170	29
86-30-6	N-Nitrosodiphenylamine	1600		170	140
91-20-3	Naphthalene	1390		170	22
98-95-3	Nitrobenzene	1460		170	19
87-86-5	Pentachlorophenol	2980		330	170
85-01-8	Phenanthrene	1630		170	25
108-95-2	Phenol	1360		170	26
129-00-0	Pyrene	1600		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368148/2-A

Matrix: Solid | Lab File ID: V304170.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.33(g) | Date Analyzed: 07/24/2017 15:00

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	95		54-120
321-60-8	2-Fluorobiphenyl	88		60-120
367-12-4	2-Fluorophenol	86		52-120
4165-60-0	Nitrobenzene-d5	88		53-120
1718-51-0	p-Terphenyl-d14	97		65-121
4165-62-2	Phenol-d5	89		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304170.D
Lims ID: LCS 480-368148/2-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Jul-2017 15:00:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064281-006
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Jul-2017 11:05:45 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: quirkp Date: 25-Jul-2017 11:05:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.557	5.556	0.001	95	46330	40.0	40.0	
* 2 Naphthalene-d8	136	7.111	7.111	0.000	99	162862	40.0	40.0	
* 3 Acenaphthene-d10	164	9.173	9.173	0.000	98	80956	40.0	40.0	
* 4 Phenanthrene-d10	188	10.803	10.803	0.000	97	155835	40.0	40.0	
* 5 Chrysene-d12	240	13.191	13.191	0.000	97	170120	40.0	40.0	
* 6 Perylene-d12	264	14.334	14.334	0.000	100	169586	40.0	40.0	
$ 7 2-Fluorophenol	112	3.799	3.799	0.000	95	55019	40.0	34.5	
$ 8 Phenol-d5	99	5.129	5.129	0.000	93	72579	40.0	35.4	
$ 9 Nitrobenzene-d5	82	6.251	6.251	0.000	96	71154	40.0	35.1	
$ 10 2-Fluorobiphenyl	172	8.404	8.404	0.000	99	120552	40.0	35.3	
$ 11 2,4,6-Tribromophenol	330	10.082	10.081	0.001	90	18166	40.0	38.2	
$ 12 p-Terphenyl-d14	244	12.299	12.298	0.001	99	135848	40.0	38.6	
68 1,4-Dioxane	88	1.534	1.539	-0.005	93	22232	50.0	28.3	
69 N-Nitrosodimethylamine	42	1.812	1.822	-0.010	83	59565	50.0	48.4	
70 Pyridine	52	1.854	1.865	-0.011	77	134709	100.0	67.6	
80 Benzaldehyde	77	4.985	4.990	-0.005	88	102701	100.0	68.5	
82 Aniline	93	5.135	5.140	-0.005	91	94339	50.0	35.2	
81 Phenol	94	5.145	5.145	0.000	82	95339	50.0	41.3	
83 Bis(2-chloroethyl)ether	93	5.236	5.241	-0.005	90	70090	50.0	42.4	
84 2-Chlorophenol	128	5.290	5.289	0.001	92	67908	50.0	42.9	
263 n-Decane	57	5.396	5.396	0.000	91	92135	50.0	36.3	
87 1,3-Dichlorobenzene	146	5.482	5.487	-0.005	93	72399	50.0	39.0	
88 1,4-Dichlorobenzene	146	5.578	5.578	0.000	89	72652	50.0	38.8	
90 Benzyl alcohol	108	5.754	5.754	0.000	88	47023	50.0	42.2	
91 1,2-Dichlorobenzene	146	5.770	5.770	0.000	94	69531	50.0	38.9	
248 Indene	115	5.883	5.882	0.001	97	467547	200.0	163.1	
92 2-Methylphenol	108	5.915	5.914	0.001	95	69463	50.0	45.8	
93 2,2'-oxybis[1-chloropropan	45	5.931	5.936	-0.005	90	146069	50.0	45.9	
94 Acetophenone	105	6.069	6.075	-0.006	88	104184	50.0	44.3	
95 N-Nitrosodi-n-propylamine	70	6.086	6.091	-0.005	94	56668	50.0	43.2	
96 4-Methylphenol	108	6.112	6.112	0.000	91	71334	50.0	45.2	
99 Hexachloroethane	117	6.182	6.182	0.000	89	29071	50.0	40.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
102 Nitrobenzene	77	6.273	6.278	-0.006	95	88125	50.0	44.3	
106 Isophorone	82	6.572	6.572	0.000	97	153889	50.0	46.0	
107 2-Nitrophenol	139	6.668	6.668	0.000	85	34400	50.0	43.5	
108 2,4-Dimethylphenol	107	6.753	6.753	0.000	97	82701	50.0	47.7	
111 Bis(2-chloroethoxy)methane	93	6.855	6.860	-0.005	94	81195	50.0	44.3	
115 Benzoic acid	105	6.951	6.956	-0.005	90	172949	200.0	138.8	
114 2,4-Dichlorophenol	162	6.962	6.961	0.001	95	58705	50.0	45.2	
117 1,2,4-Trichlorobenzene	180	7.058	7.058	0.000	93	60412	50.0	42.0	
118 Naphthalene	128	7.138	7.138	0.000	98	184144	50.0	42.1	
119 4-Chloroaniline	127	7.223	7.223	0.000	91	70830	50.0	39.5	
122 2,6-Dichlorophenol	162	7.229	7.229	0.000	85	56059	50.0	44.0	
121 Hexachlorobutadiene	225	7.309	7.309	0.000	96	44221	50.0	42.3	
124 Caprolactam	113	7.656	7.635	0.021	71	39493	100.0	91.6	
129 4-Chloro-3-methylphenol	107	7.832	7.827	0.005	92	65653	50.0	45.6	
131 2-Methylnaphthalene	142	7.961	7.960	0.001	90	119529	50.0	43.9	
251 1-Methylnaphthalene	142	8.078	8.078	0.000	96	112684	50.0	45.3	
134 Hexachlorocyclopentadiene	237	8.164	8.164	0.000	97	48525	50.0	42.9	
135 1,2,4,5-Tetrachlorobenzene	216	8.169	8.169	0.000	98	68474	50.0	46.4	
137 2,4,6-Trichlorophenol	196	8.313	8.308	0.005	96	45757	50.0	46.8	
138 2,4,5-Trichlorophenol	196	8.356	8.350	0.006	92	45788	50.0	45.1	
140 1,1'-Biphenyl	154	8.516	8.516	0.000	96	151050	50.0	45.1	
141 2-Chloronaphthalene	162	8.527	8.527	0.000	98	120297	50.0	44.7	
143 2-Nitroaniline	65	8.660	8.660	0.000	74	52233	50.0	48.4	
146 Dimethyl phthalate	163	8.896	8.895	0.001	97	147153	50.0	47.8	
148 1,3-Dinitrobenzene	168	8.912	8.911	0.001	79	23423	50.0	46.0	
149 2,6-Dinitrotoluene	165	8.954	8.954	0.000	80	31828	50.0	45.1	
150 Acenaphthylene	152	9.008	9.008	0.000	98	175705	50.0	45.5	
151 3-Nitroaniline	138	9.141	9.141	0.000	87	31723	50.0	43.0	
152 Acenaphthene	153	9.211	9.211	0.000	95	118203	50.0	45.6	
153 2,4-Dinitrophenol	184	9.269	9.269	0.000	82	42230	100.0	87.3	
154 4-Nitrophenol	109	9.376	9.376	0.000	92	62003	100.0	97.4	
155 Dibenzofuran	168	9.414	9.414	0.000	93	169804	50.0	46.2	
156 2,4-Dinitrotoluene	165	9.419	9.419	0.000	76	45196	50.0	48.3	
158 2,3,4,6-Tetrachlorophenol	232	9.574	9.574	0.000	74	39404	50.0	47.1	
161 Diethyl phthalate	149	9.724	9.723	0.001	96	149860	50.0	48.9	
256 Hexadecane	57	9.761	9.761	0.000	67	121640	50.0	46.9	
162 Fluorene	166	9.809	9.809	0.000	94	136070	50.0	46.3	
163 4-Chlorophenyl phenyl ethe	204	9.825	9.825	0.000	96	71525	50.0	47.4	
164 4-Nitroaniline	138	9.852	9.852	0.000	73	32714	50.0	45.0	
165 4,6-Dinitro-2-methylphenol	198	9.895	9.894	0.001	81	53252	100.0	89.3	
169 Diphenylamine	169	9.964	9.964	0.000	95	106386	42.8	41.4	
168 N-Nitrosodiphenylamine	169	9.964	9.964	0.000	64	106386	50.0	48.4	
170 1,2-Diphenylhydrazine	77	10.001	10.001	0.000	95	180599	50.0	48.7	
171 Azobenzene	77	10.001	10.001	0.000	98	180599	50.0	50.1	
175 4-Bromophenyl phenyl ether	248	10.359	10.359	0.000	74	44787	50.0	49.5	
179 Hexachlorobenzene	284	10.418	10.423	-0.005	94	48734	50.0	51.3	
180 Atrazine	200	10.557	10.557	0.000	89	95495	100.0	108.5	
183 Pentachlorophenol	266	10.632	10.632	0.000	91	53179	100.0	90.3	
265 n-Octadecane	57	10.755	10.754	0.001	88	127230	50.0	51.5	
188 Phenanthrene	178	10.829	10.829	0.000	98	204725	50.0	49.6	
189 Anthracene	178	10.878	10.877	0.001	97	216535	50.0	50.3	
192 Carbazole	167	11.048	11.048	0.000	97	183935	50.0	50.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
195 Di-n-butyl phthalate	149	11.406	11.406	0.000	99	244363	50.0	50.0	
201 Fluoranthene	202	11.951	11.951	0.000	97	239267	50.0	51.1	
202 Benzidine	184	12.080	12.079	0.001	99	106862	100.0	33.9	
204 Pyrene	202	12.149	12.149	0.000	98	242070	50.0	48.4	
210 Butyl benzyl phthalate	149	12.721	12.726	-0.005	97	108030	50.0	49.6	
215 3,3'-Dichlorobenzidine	252	13.164	13.164	0.000	74	153059	100.0	86.8	
217 Benzo[a]anthracene	228	13.180	13.180	0.000	96	246408	50.0	50.2	
216 Bis(2-ethylhexyl) phthalat	149	13.207	13.207	0.000	95	155006	50.0	49.4	
218 Chrysene	228	13.212	13.212	0.000	96	228177	50.0	48.8	
220 Di-n-octyl phthalate	149	13.725	13.725	0.000	99	267164	50.0	50.9	
221 Benzo[b]fluoranthene	252	14.045	14.045	0.000	95	248991	50.0	50.7	
222 Benzo[k]fluoranthene	252	14.067	14.067	0.000	97	238809	50.0	50.0	
225 Benzo[a]pyrene	252	14.291	14.291	0.000	76	227004	50.0	50.8	
227 Indeno[1,2,3-cd]pyrene	276	15.210	15.210	0.000	98	275047	50.0	51.9	
228 Dibenz(a,h)anthracene	278	15.215	15.215	0.000	88	229340	50.0	51.9	
229 Benzo[g,h,i]perylene	276	15.456	15.461	-0.005	97	234771	50.0	51.3	
S 233 3-Methylphenol	1				0		50.0	45.2	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

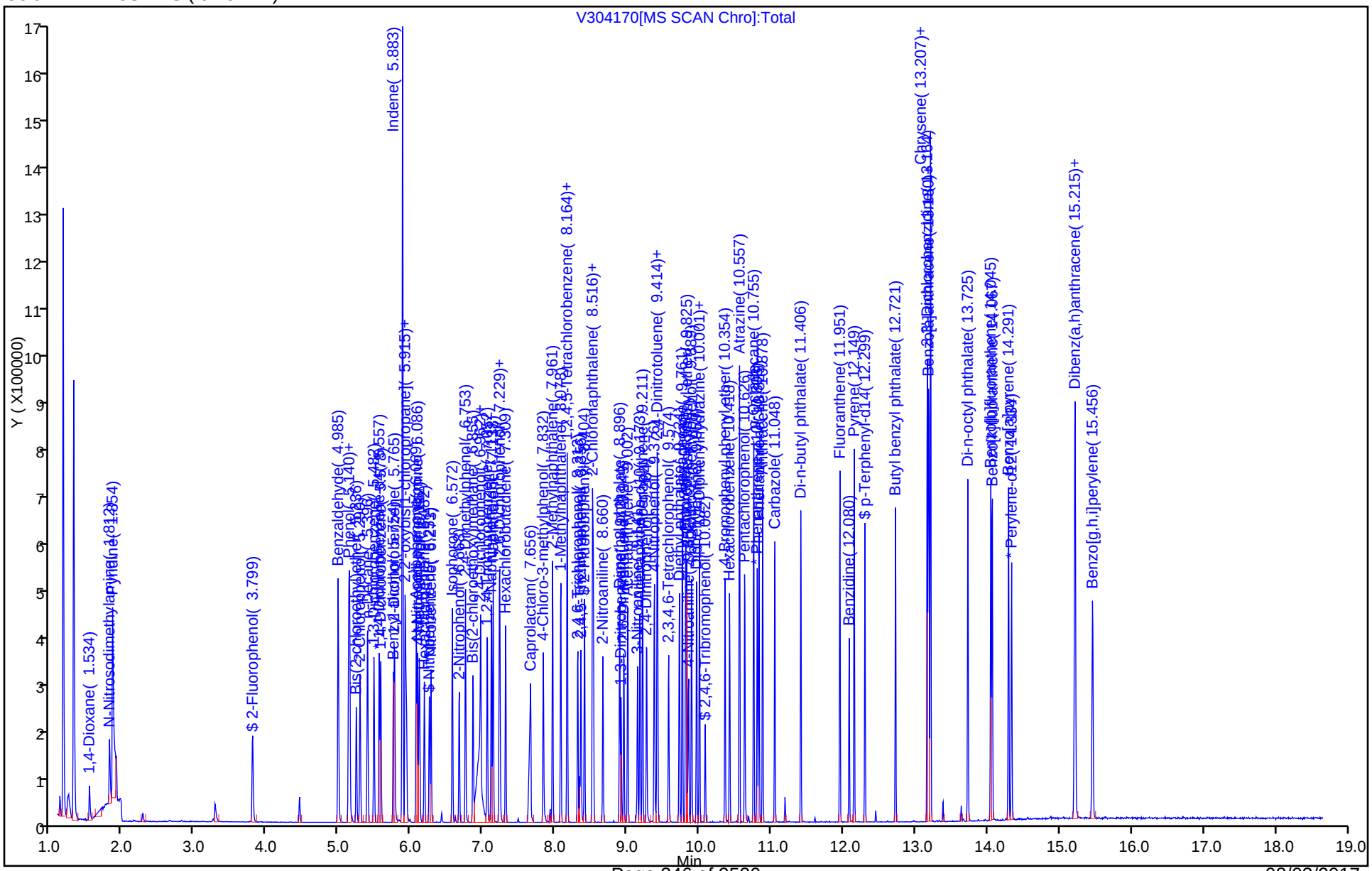
Report Date: 25-Jul-2017 11:05:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304170.D

Injection Date:	24-Jul-2017 15:00:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	LCS 480-368148/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS | Lab Sample ID: 480-121411-3 MS

Matrix: Solid | Lab File ID: V304171.D

Analysis Method: 8270D | Date Collected: 07/20/2017 15:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.43(g) | Date Analyzed: 07/24/2017 15:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1650		1000	150
108-60-1	bis (2-chloroisopropyl) ether	1630		1000	200
95-95-4	2,4,5-Trichlorophenol	1910		1000	270
88-06-2	2,4,6-Trichlorophenol	1800		1000	200
120-83-2	2,4-Dichlorophenol	1590		1000	110
105-67-9	2,4-Dimethylphenol	1620		1000	240
51-28-5	2,4-Dinitrophenol	ND		9800	4600
121-14-2	2,4-Dinitrotoluene	1840		1000	210
606-20-2	2,6-Dinitrotoluene	1710		1000	120
91-58-7	2-Chloronaphthalene	1710		1000	170
95-57-8	2-Chlorophenol	1400		1000	180
91-57-6	2-Methylnaphthalene	1650		1000	200
95-48-7	2-Methylphenol	1540		1000	120
88-74-4	2-Nitroaniline	1810	J	1900	150
88-75-5	2-Nitrophenol	1680		1000	280
91-94-1	3,3'-Dichlorobenzidine	3530		1900	1200
99-09-2	3-Nitroaniline	1860	J	1900	280
534-52-1	4,6-Dinitro-2-methylphenol	3210		1900	1000
101-55-3	4-Bromophenyl phenyl ether	1910		1000	140
59-50-7	4-Chloro-3-methylphenol	1820		1000	250
106-47-8	4-Chloroaniline	1400		1000	250
7005-72-3	4-Chlorophenyl phenyl ether	1910		1000	120
106-44-5	4-Methylphenol	1570	J	1900	120
100-01-6	4-Nitroaniline	1740	J	1900	530
100-02-7	4-Nitrophenol	3780		1900	700
83-32-9	Acenaphthene	1840		1000	150
208-96-8	Acenaphthylene	1840		1000	130
98-86-2	Acetophenone	1500		1000	140
120-12-7	Anthracene	1840		1000	250
1912-24-9	Atrazine	4060		1000	350
100-52-7	Benzaldehyde	2320		1000	800
56-55-3	Benzo(a)anthracene	1830		1000	100
50-32-8	Benzo(a)pyrene	1870		1000	150
205-99-2	Benzo(b)fluoranthene	1770		1000	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS | Lab Sample ID: 480-121411-3 MS

Matrix: Solid | Lab File ID: V304171.D

Analysis Method: 8270D | Date Collected: 07/20/2017 15:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.43(g) | Date Analyzed: 07/24/2017 15:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1900		1000	110
207-08-9	Benzo(k)fluoranthene	2090		1000	130
111-91-1	Bis(2-chloroethoxy)methane	1640		1000	210
111-44-4	Bis(2-chloroethyl)ether	1560		1000	130
117-81-7	Bis(2-ethylhexyl) phthalate	1870		1000	340
85-68-7	Butyl benzyl phthalate	1880		1000	170
105-60-2	Caprolactam	3640		1000	300
86-74-8	Carbazole	1930		1000	120
218-01-9	Chrysene	2000		1000	220
84-74-2	Di-n-butyl phthalate	1880		1000	170
117-84-0	Di-n-octyl phthalate	1940		1000	120
53-70-3	Dibenz(a,h)anthracene	1950		1000	180
132-64-9	Dibenzofuran	1770		1000	120
84-66-2	Diethyl phthalate	1800		1000	130
131-11-3	Dimethyl phthalate	1870		1000	120
206-44-0	Fluoranthene	1890		1000	110
86-73-7	Fluorene	1790		1000	120
118-74-1	Hexachlorobenzene	1940		1000	140
87-68-3	Hexachlorobutadiene	1520		1000	150
77-47-4	Hexachlorocyclopentadiene	1550		1000	140
67-72-1	Hexachloroethane	1350		1000	130
193-39-5	Indeno(1,2,3-cd)pyrene	2000		1000	120
78-59-1	Isophorone	1640		1000	210
621-64-7	N-Nitrosodi-n-propylamine	1580		1000	170
86-30-6	N-Nitrosodiphenylamine	1790		1000	820
91-20-3	Naphthalene	1580		1000	130
98-95-3	Nitrobenzene	1680		1000	110
87-86-5	Pentachlorophenol	2960		1900	1000
85-01-8	Phenanthrene	1900		1000	150
108-95-2	Phenol	1440		1000	150
129-00-0	Pyrene	1870		1000	120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS | Lab Sample ID: 480-121411-3 MS

Matrix: Solid | Lab File ID: V304171.D

Analysis Method: 8270D | Date Collected: 07/20/2017 15:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.43(g) | Date Analyzed: 07/24/2017 15:26

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	94		54-120
321-60-8	2-Fluorobiphenyl	83		60-120
367-12-4	2-Fluorophenol	66		52-120
4165-60-0	Nitrobenzene-d5	81		53-120
1718-51-0	p-Terphenyl-d14	92		65-121
4165-62-2	Phenol-d5	78		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304171.D
Lims ID: 480-121411-A-3-D MS
Client ID: TP-15
Sample Type: MS
Inject. Date: 24-Jul-2017 15:26:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 480-0064281-007
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Jul-2017 11:06:29 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: quirkp Date: 25-Jul-2017 11:06:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.557	5.556	0.001	95	46154	8.00	40.0	
* 2 Naphthalene-d8	136	7.111	7.111	0.000	98	155106	8.00	40.0	
* 3 Acenaphthene-d10	164	9.173	9.173	0.000	97	78089	8.00	40.0	
* 4 Phenanthrene-d10	188	10.803	10.803	0.000	97	156467	8.00	40.0	
* 5 Chrysene-d12	240	13.185	13.191	-0.006	97	173148	8.00	40.0	
* 6 Perylene-d12	264	14.334	14.334	0.000	100	171925	8.00	40.0	
$ 7 2-Fluorophenol	112	3.799	3.799	0.000	93	8423	8.00	5.30	
$ 8 Phenol-d5	99	5.129	5.129	0.000	90	12690	8.00	6.22	
$ 9 Nitrobenzene-d5	82	6.251	6.251	0.000	96	12522	8.00	6.49	
$ 10 2-Fluorobiphenyl	172	8.404	8.404	0.000	99	21959	8.00	6.66	
$ 11 2,4,6-Tribromophenol	330	10.082	10.081	0.001	83	2891	8.00	7.49	
$ 12 p-Terphenyl-d14	244	12.299	12.298	0.001	99	26224	8.00	7.32	
80 Benzaldehyde	77	4.990	4.990	0.000	90	17577	20.0	11.8	
81 Phenol	94	5.145	5.145	0.000	87	16754	10.0	7.29	
83 Bis(2-chloroethyl)ether	93	5.241	5.241	0.000	92	13057	10.0	7.93	
84 2-Chlorophenol	128	5.290	5.289	0.001	92	11163	10.0	7.09	
92 2-Methylphenol	108	5.915	5.914	0.001	96	11823	10.0	7.82	
93 2,2'-oxybis[1-chloropropan	45	5.931	5.936	-0.005	91	26239	10.0	8.28	
94 Acetophenone	105	6.069	6.075	-0.006	89	17834	10.0	7.61	
95 N-Nitrosodi-n-propylamine	70	6.086	6.091	-0.005	95	10451	10.0	8.00	
96 4-Methylphenol	108	6.112	6.112	0.000	92	12551	10.0	7.99	
99 Hexachloroethane	117	6.182	6.182	0.000	88	4947	10.0	6.84	
102 Nitrobenzene	77	6.272	6.278	-0.006	93	16168	10.0	8.54	
106 Isophorone	82	6.572	6.572	0.000	97	26614	10.0	8.35	
107 2-Nitrophenol	139	6.668	6.668	0.000	80	5493	10.0	8.53	
108 2,4-Dimethylphenol	107	6.753	6.753	0.000	96	13561	10.0	8.21	
111 Bis(2-chloroethoxy)methane	93	6.855	6.860	-0.005	91	14503	10.0	8.31	
114 2,4-Dichlorophenol	162	6.962	6.961	0.001	93	9970	10.0	8.07	
118 Naphthalene	128	7.138	7.138	0.000	97	33388	10.0	8.02	
119 4-Chloroaniline	127	7.223	7.223	0.000	93	12122	10.0	7.10	
121 Hexachlorobutadiene	225	7.309	7.309	0.000	93	7698	10.0	7.73	
124 Caprolactam	113	7.597	7.635	-0.038	72	6950	20.0	18.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107	7.827	7.827	0.000	94	11720	10.0	9.23	
131 2-Methylnaphthalene	142	7.961	7.960	0.001	90	21733	10.0	8.38	
134 Hexachlorocyclopentadiene	237	8.164	8.164	0.000	91	7301	10.0	7.88	
137 2,4,6-Trichlorophenol	196	8.308	8.308	0.000	91	7710	10.0	9.14	
138 2,4,5-Trichlorophenol	196	8.351	8.350	0.001	94	8589	10.0	9.68	
140 1,1'-Biphenyl	154	8.516	8.516	0.000	95	27105	10.0	8.39	
141 2-Chloronaphthalene	162	8.527	8.527	0.000	98	22499	10.0	8.67	
143 2-Nitroaniline	65	8.655	8.660	-0.005	69	8329	10.0	9.18	
146 Dimethyl phthalate	163	8.890	8.895	-0.005	97	28208	10.0	9.50	
149 2,6-Dinitrotoluene	165	8.949	8.954	-0.005	84	5890	10.0	8.66	
150 Acenaphthylene	152	9.002	9.008	-0.006	98	34918	10.0	9.36	
151 3-Nitroaniline	138	9.136	9.141	-0.005	86	5918	10.0	9.42	
152 Acenaphthene	153	9.211	9.211	0.000	96	23292	10.0	9.32	
153 2,4-Dinitrophenol	184	9.264	9.269	-0.005	82	3459	20.0	14.0	
154 4-Nitrophenol	109	9.371	9.376	-0.005	91	9485	20.0	19.2	
155 Dibenzofuran	168	9.414	9.414	0.000	94	31860	10.0	8.98	
156 2,4-Dinitrotoluene	165	9.419	9.419	0.000	47	8440	10.0	9.36	
161 Diethyl phthalate	149	9.713	9.723	-0.010	96	27064	10.0	9.16	
162 Fluorene	166	9.809	9.809	0.000	94	25750	10.0	9.08	
163 4-Chlorophenyl phenyl ethe	204	9.825	9.825	0.000	95	14110	10.0	9.69	
164 4-Nitroaniline	138	9.841	9.852	-0.011	76	5520	10.0	8.82	
165 4,6-Dinitro-2-methylphenol	198	9.884	9.894	-0.010	76	7634	20.0	16.3	
168 N-Nitrosodiphenylamine	169	9.959	9.964	-0.005	65	20008	10.0	9.07	
175 4-Bromophenyl phenyl ether	248	10.354	10.359	-0.005	70	8784	10.0	9.68	
179 Hexachlorobenzene	284	10.418	10.423	-0.005	93	9288	10.0	9.85	
180 Atrazine	200	10.552	10.557	-0.005	90	17528	20.0	20.6	
183 Pentachlorophenol	266	10.626	10.632	-0.006	90	5810	20.0	15.0	
188 Phenanthrene	178	10.824	10.829	-0.005	98	40105	10.0	9.67	
189 Anthracene	178	10.877	10.877	0.000	97	40376	10.0	9.34	
192 Carbazole	167	11.043	11.048	-0.005	97	36173	10.0	9.82	
195 Di-n-butyl phthalate	149	11.406	11.406	0.000	99	43310	10.0	9.54	
201 Fluoranthene	202	11.946	11.951	-0.005	97	45060	10.0	9.59	
204 Pyrene	202	12.149	12.149	0.000	99	48233	10.0	9.48	
210 Butyl benzyl phthalate	149	12.721	12.726	-0.005	97	18911	10.0	9.53	
215 3,3'-Dichlorobenzidine	252	13.159	13.164	-0.005	74	30623	20.0	17.9	
217 Benzo[a]anthracene	228	13.180	13.180	0.000	97	46388	10.0	9.29	
216 Bis(2-ethylhexyl) phthalat	149	13.207	13.207	0.000	77	27177	10.0	9.48	
218 Chrysene	228	13.207	13.212	-0.005	96	48344	10.0	10.2	
220 Di-n-octyl phthalate	149	13.725	13.725	0.000	99	46853	10.0	9.83	
221 Benzo[b]fluoranthene	252	14.040	14.045	-0.005	95	44653	10.0	8.97	
222 Benzo[k]fluoranthene	252	14.061	14.067	-0.006	97	51264	10.0	10.6	
225 Benzo[a]pyrene	252	14.291	14.291	0.000	75	43132	10.0	9.52	
227 Indeno[1,2,3-cd]pyrene	276	15.205	15.210	-0.005	97	54575	10.0	10.2	
228 Dibenz(a,h)anthracene	278	15.215	15.215	0.000	88	44440	10.0	9.92	
229 Benzo[g,h,i]perylene	276	15.450	15.461	-0.011	97	44770	10.0	9.65	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

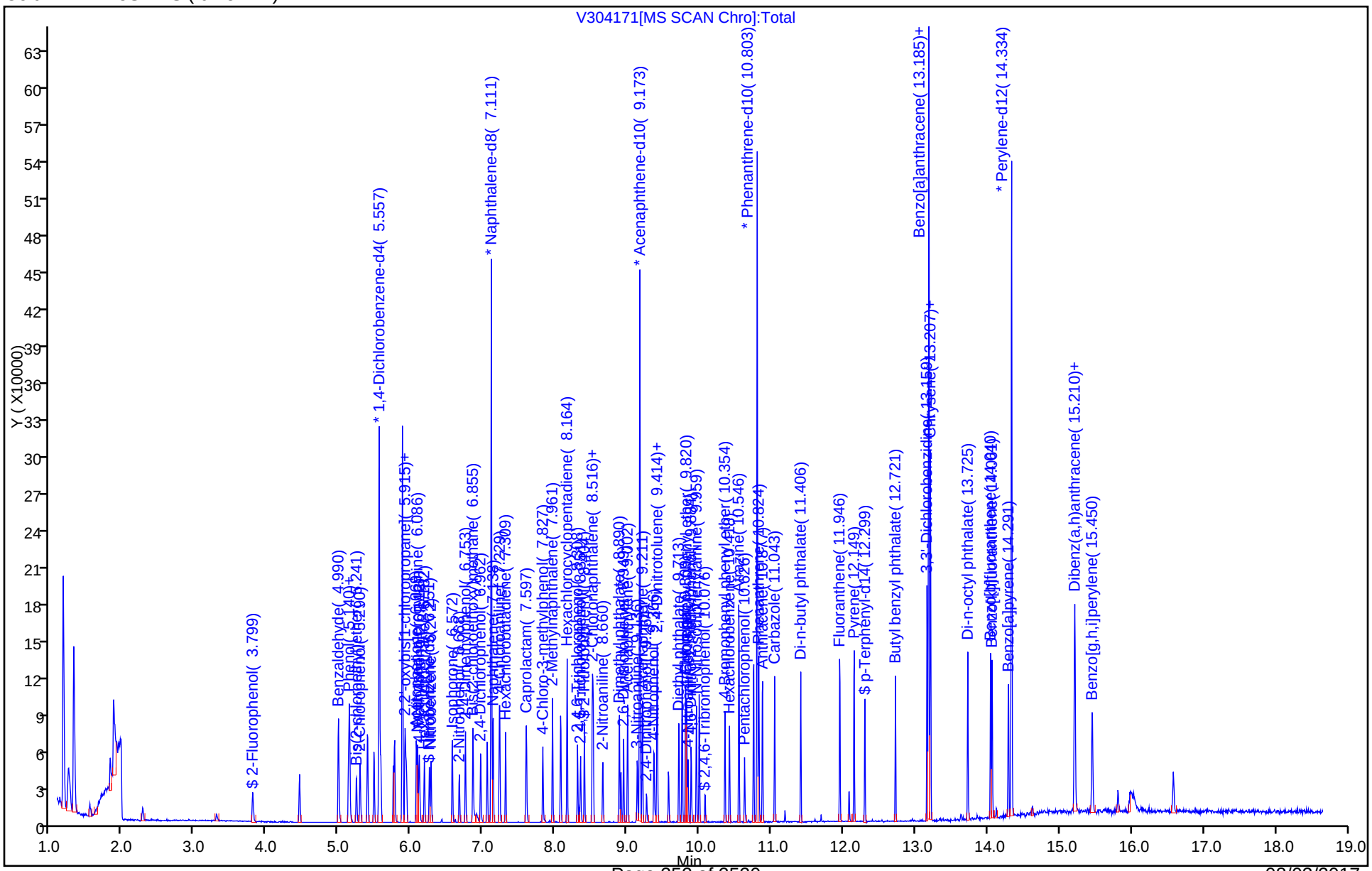
Report Date: 25-Jul-2017 11:06:30 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304171.D

Injection Date:	24-Jul-2017 15:26:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121411-A-3-D MS			Worklist Smp#:	7
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	7
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD | Lab Sample ID: 480-121411-3 MSD

Matrix: Solid | Lab File ID: V304172.D

Analysis Method: 8270D | Date Collected: 07/20/2017 15:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.05(g) | Date Analyzed: 07/24/2017 15:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1820		1000	150
108-60-1	bis (2-chloroisopropyl) ether	1700		1000	200
95-95-4	2,4,5-Trichlorophenol	1950		1000	280
88-06-2	2,4,6-Trichlorophenol	1840		1000	200
120-83-2	2,4-Dichlorophenol	1700		1000	110
105-67-9	2,4-Dimethylphenol	1710		1000	250
51-28-5	2,4-Dinitrophenol	ND		9900	4700
121-14-2	2,4-Dinitrotoluene	1890		1000	210
606-20-2	2,6-Dinitrotoluene	1820		1000	120
91-58-7	2-Chloronaphthalene	1710		1000	170
95-57-8	2-Chlorophenol	1510		1000	190
91-57-6	2-Methylnaphthalene	1680		1000	200
95-48-7	2-Methylphenol	1640		1000	120
88-74-4	2-Nitroaniline	1940	J	2000	150
88-75-5	2-Nitrophenol	1720		1000	290
91-94-1	3,3'-Dichlorobenzidine	3650		2000	1200
99-09-2	3-Nitroaniline	1850	J	2000	280
534-52-1	4,6-Dinitro-2-methylphenol	3220		2000	1000
101-55-3	4-Bromophenyl phenyl ether	2000		1000	140
59-50-7	4-Chloro-3-methylphenol	1880		1000	250
106-47-8	4-Chloroaniline	1480		1000	250
7005-72-3	4-Chlorophenyl phenyl ether	1880		1000	130
106-44-5	4-Methylphenol	1650	J	2000	120
100-01-6	4-Nitroaniline	1780	J	2000	530
100-02-7	4-Nitrophenol	3790		2000	710
83-32-9	Acenaphthene	1830		1000	150
208-96-8	Acenaphthylene	1790		1000	130
98-86-2	Acetophenone	1590		1000	140
120-12-7	Anthracene	1900		1000	250
1912-24-9	Atrazine	4190		1000	350
100-52-7	Benzaldehyde	2580		1000	810
56-55-3	Benzo(a)anthracene	2020		1000	100
50-32-8	Benzo(a)pyrene	1900		1000	150
205-99-2	Benzo(b)fluoranthene	1830		1000	160

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD | Lab Sample ID: 480-121411-3 MSD

Matrix: Solid | Lab File ID: V304172.D

Analysis Method: 8270D | Date Collected: 07/20/2017 15:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.05(g) | Date Analyzed: 07/24/2017 15:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1920		1000	110
207-08-9	Benzo(k)fluoranthene	2090		1000	130
111-91-1	Bis(2-chloroethoxy)methane	1680		1000	220
111-44-4	Bis(2-chloroethyl)ether	1550		1000	130
117-81-7	Bis(2-ethylhexyl) phthalate	1960		1000	350
85-68-7	Butyl benzyl phthalate	1990		1000	170
105-60-2	Caprolactam	3880		1000	310
86-74-8	Carbazole	1940		1000	120
218-01-9	Chrysene	2070		1000	230
84-74-2	Di-n-butyl phthalate	2010		1000	170
117-84-0	Di-n-octyl phthalate	2020		1000	120
53-70-3	Dibenz(a,h)anthracene	1900		1000	180
132-64-9	Dibenzofuran	1850		1000	120
84-66-2	Diethyl phthalate	1990		1000	130
131-11-3	Dimethyl phthalate	1890		1000	120
206-44-0	Fluoranthene	2000		1000	110
86-73-7	Fluorene	1870		1000	120
118-74-1	Hexachlorobenzene	1900		1000	140
87-68-3	Hexachlorobutadiene	1530		1000	150
77-47-4	Hexachlorocyclopentadiene	1650		1000	140
67-72-1	Hexachloroethane	1480		1000	130
193-39-5	Indeno(1,2,3-cd)pyrene	1990		1000	130
78-59-1	Isophorone	1710		1000	220
621-64-7	N-Nitrosodi-n-propylamine	1670		1000	170
86-30-6	N-Nitrosodiphenylamine	1890		1000	830
91-20-3	Naphthalene	1620		1000	130
98-95-3	Nitrobenzene	1590		1000	110
87-86-5	Pentachlorophenol	3220		2000	1000
85-01-8	Phenanthrene	2010		1000	150
108-95-2	Phenol	1590		1000	160
129-00-0	Pyrene	1920		1000	120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD | Lab Sample ID: 480-121411-3 MSD

Matrix: Solid | Lab File ID: V304172.D

Analysis Method: 8270D | Date Collected: 07/20/2017 15:00

Extract. Method: 3550C | Date Extracted: 07/21/2017 14:18

Sample wt/vol: 30.05(g) | Date Analyzed: 07/24/2017 15:53

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368383 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	97		54-120
321-60-8	2-Fluorobiphenyl	89		60-120
367-12-4	2-Fluorophenol	71		52-120
4165-60-0	Nitrobenzene-d5	82		53-120
1718-51-0	p-Terphenyl-d14	95		65-121
4165-62-2	Phenol-d5	85		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304172.D
Lims ID: 480-121411-A-3-E MSD
Client ID: TP-15
Sample Type: MSD
Inject. Date: 24-Jul-2017 15:53:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 480-0064281-008
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 25-Jul-2017 11:07:16 Calib Date: 06-Jul-2017 17:18:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170706-63851.b\V303873.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK014

First Level Reviewer: quirkp Date: 25-Jul-2017 11:07:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.556	5.556	0.000	95	47291	8.00	40.0	
* 2 Naphthalene-d8	136	7.111	7.111	0.000	99	165675	8.00	40.0	
* 3 Acenaphthene-d10	164	9.173	9.173	0.000	98	81321	8.00	40.0	
* 4 Phenanthrene-d10	188	10.802	10.803	-0.001	97	161586	8.00	40.0	
* 5 Chrysene-d12	240	13.185	13.191	-0.006	97	178087	8.00	40.0	
* 6 Perylene-d12	264	14.334	14.334	0.000	99	176621	8.00	40.0	
$ 7 2-Fluorophenol	112	3.799	3.799	0.000	93	9309	8.00	5.71	
$ 8 Phenol-d5	99	5.129	5.129	0.000	95	14156	8.00	6.77	
$ 9 Nitrobenzene-d5	82	6.251	6.251	0.000	96	13475	8.00	6.54	
$ 10 2-Fluorobiphenyl	172	8.404	8.404	0.000	99	24444	8.00	7.12	
$ 11 2,4,6-Tribromophenol	330	10.076	10.081	-0.005	88	3138	8.00	7.79	
$ 12 p-Terphenyl-d14	244	12.298	12.298	0.000	83	27922	8.00	7.58	
80 Benzaldehyde	77	4.985	4.990	-0.005	88	19786	20.0	12.9	
81 Phenol	94	5.145	5.145	0.000	79	18771	10.0	7.97	
83 Bis(2-chloroethyl)ether	93	5.236	5.241	-0.005	91	13129	10.0	7.78	
84 2-Chlorophenol	128	5.289	5.289	0.000	92	12236	10.0	7.58	
92 2-Methylphenol	108	5.914	5.914	0.000	96	12725	10.0	8.22	
93 2,2'-oxybis[1-chloropropan	45	5.930	5.936	-0.006	89	27737	10.0	8.54	
94 Acetophenone	105	6.069	6.075	-0.006	91	19159	10.0	7.97	
95 N-Nitrosodi-n-propylamine	70	6.085	6.091	-0.006	89	11177	10.0	8.35	
96 4-Methylphenol	108	6.112	6.112	0.000	86	13363	10.0	8.30	
99 Hexachloroethane	117	6.181	6.182	-0.001	89	5503	10.0	7.43	
102 Nitrobenzene	77	6.272	6.278	-0.006	94	16098	10.0	7.96	
106 Isophorone	82	6.571	6.572	-0.001	98	29140	10.0	8.56	
107 2-Nitrophenol	139	6.668	6.668	0.000	79	5960	10.0	8.64	
108 2,4-Dimethylphenol	107	6.753	6.753	0.000	97	15098	10.0	8.55	
111 Bis(2-chloroethoxy)methane	93	6.855	6.860	-0.005	93	15680	10.0	8.41	
114 2,4-Dichlorophenol	162	6.967	6.961	0.006	94	11248	10.0	8.52	
118 Naphthalene	128	7.138	7.138	0.000	99	36145	10.0	8.12	
119 4-Chloroaniline	127	7.223	7.223	0.000	93	13568	10.0	7.44	
121 Hexachlorobutadiene	225	7.309	7.309	0.000	95	8164	10.0	7.68	
124 Caprolactam	113	7.597	7.635	-0.038	74	7871	20.0	19.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107	7.827	7.827	0.000	92	12822	10.0	9.44	
131 2-Methylnaphthalene	142	7.960	7.960	0.000	89	23331	10.0	8.42	
134 Hexachlorocyclopentadiene	237	8.163	8.164	-0.001	92	8056	10.0	8.26	
137 2,4,6-Trichlorophenol	196	8.308	8.308	0.000	94	8143	10.0	9.25	
138 2,4,5-Trichlorophenol	196	8.350	8.350	0.000	92	9038	10.0	9.77	
140 1,1'-Biphenyl	154	8.516	8.516	0.000	94	30649	10.0	9.11	
141 2-Chloronaphthalene	162	8.527	8.527	0.000	97	23192	10.0	8.59	
143 2-Nitroaniline	65	8.660	8.660	0.000	75	9308	10.0	9.74	
146 Dimethyl phthalate	163	8.890	8.895	-0.005	97	29250	10.0	9.46	
149 2,6-Dinitrotoluene	165	8.949	8.954	-0.005	84	6464	10.0	9.13	
150 Acenaphthylene	152	9.002	9.008	-0.006	98	34835	10.0	8.97	
151 3-Nitroaniline	138	9.141	9.141	0.000	86	6045	10.0	9.27	
152 Acenaphthene	153	9.210	9.211	-0.001	96	23909	10.0	9.19	
153 2,4-Dinitrophenol	184	9.264	9.269	-0.005	81	3896	20.0	14.6	
154 4-Nitrophenol	109	9.365	9.376	-0.011	92	9736	20.0	19.0	
155 Dibenzofuran	168	9.414	9.414	0.000	94	34324	10.0	9.29	
156 2,4-Dinitrotoluene	165	9.419	9.419	0.000	63	8906	10.0	9.48	
161 Diethyl phthalate	149	9.718	9.723	-0.005	96	30743	10.0	9.99	
162 Fluorene	166	9.809	9.809	0.000	92	27686	10.0	9.37	
163 4-Chlorophenyl phenyl ethe	204	9.825	9.825	0.000	95	14293	10.0	9.42	
164 4-Nitroaniline	138	9.841	9.852	-0.011	71	5816	10.0	8.91	
165 4,6-Dinitro-2-methylphenol	198	9.884	9.894	-0.010	71	7790	20.0	16.2	
168 N-Nitrosodiphenylamine	169	9.958	9.964	-0.006	63	21564	10.0	9.47	
175 4-Bromophenyl phenyl ether	248	10.354	10.359	-0.005	72	9406	10.0	10.0	
179 Hexachlorobenzene	284	10.418	10.423	-0.005	92	9278	10.0	9.54	
180 Atrazine	200	10.551	10.557	-0.006	90	18599	20.0	21.0	
183 Pentachlorophenol	266	10.626	10.632	-0.006	88	6725	20.0	16.1	
188 Phenanthrene	178	10.824	10.829	-0.005	97	43076	10.0	10.1	
189 Anthracene	178	10.877	10.877	0.000	97	42616	10.0	9.55	
192 Carbazole	167	11.043	11.048	-0.005	96	36955	10.0	9.71	
195 Di-n-butyl phthalate	149	11.406	11.406	0.000	100	47582	10.0	10.1	
201 Fluoranthene	202	11.946	11.951	-0.005	97	48615	10.0	10.0	
204 Pyrene	202	12.149	12.149	0.000	98	50337	10.0	9.62	
210 Butyl benzyl phthalate	149	12.720	12.726	-0.006	97	20517	10.0	9.99	
215 3,3'-Dichlorobenzidine	252	13.158	13.164	-0.006	74	32239	20.0	18.3	
217 Benzo[a]anthracene	228	13.180	13.180	0.000	96	51925	10.0	10.1	
216 Bis(2-ethylhexyl) phthalat	149	13.206	13.207	-0.001	79	29207	10.0	9.85	
218 Chrysene	228	13.206	13.212	-0.006	96	50846	10.0	10.4	
220 Di-n-octyl phthalate	149	13.725	13.725	0.000	99	49858	10.0	10.1	
221 Benzo[b]fluoranthene	252	14.040	14.045	-0.005	95	46829	10.0	9.16	
222 Benzo[k]fluoranthene	252	14.061	14.067	-0.006	98	52039	10.0	10.5	
225 Benzo[a]pyrene	252	14.291	14.291	0.000	75	44305	10.0	9.52	
227 Indeno[1,2,3-cd]pyrene	276	15.204	15.210	-0.006	97	55051	10.0	9.98	
228 Dibenz(a,h)anthracene	278	15.210	15.215	-0.005	87	43961	10.0	9.55	
229 Benzo[g,h,i]perylene	276	15.450	15.461	-0.011	97	45813	10.0	9.61	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

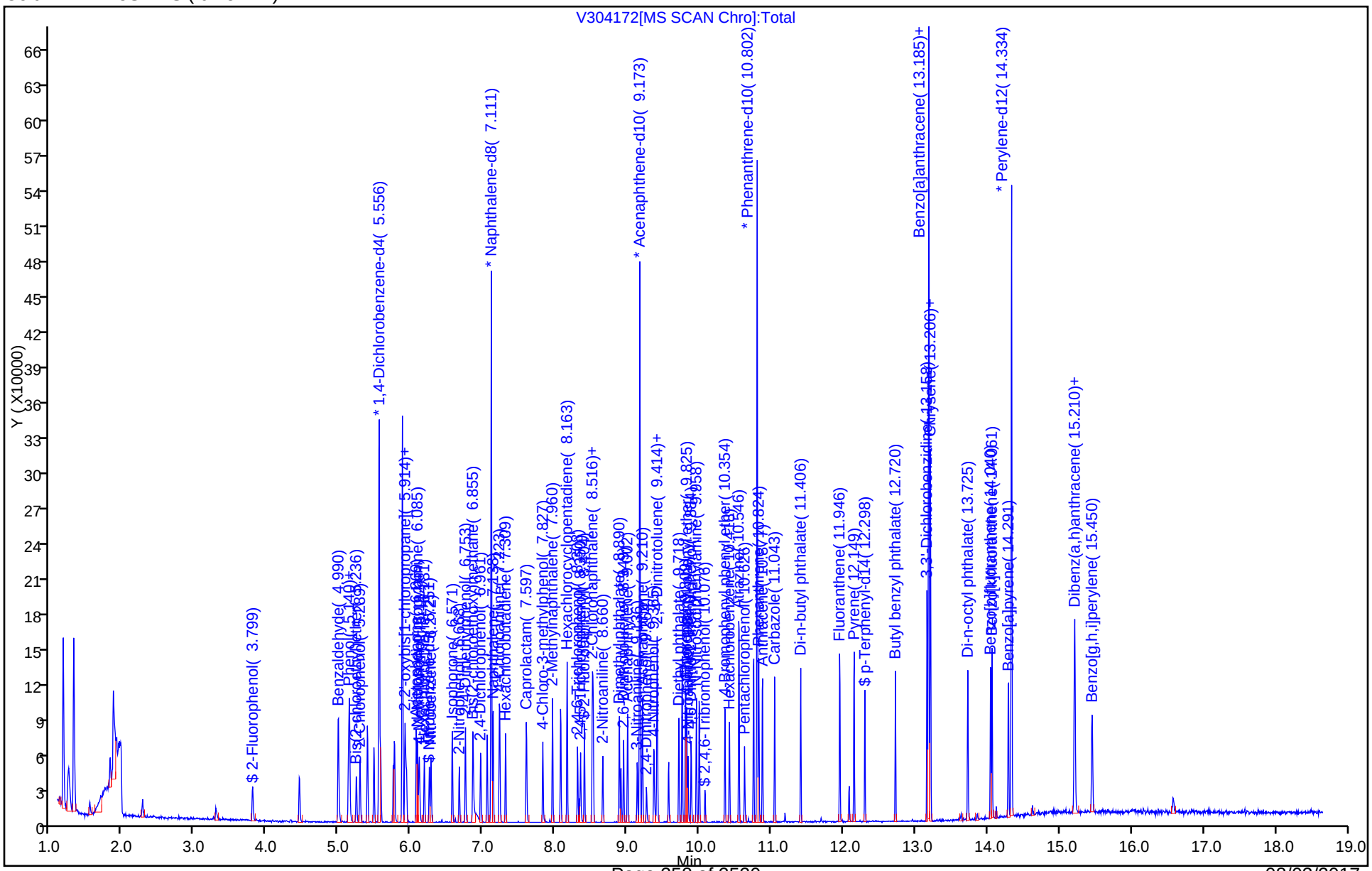
Report Date: 25-Jul-2017 11:07:17 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170724-64281.b\V304172.D

Injection Date:	24-Jul-2017 15:53:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121411-A-3-E MSD			Worklist Smp#:	8
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	8
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP5973V Start Date: 07/06/2017 14:43

Analysis Batch Number: 365690 End Date: 07/06/2017 17:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-365690/2		07/06/2017 14:43	1	V303867.D	RXI-5Sil MS 0.25(mm)
IC 480-365690/3		07/06/2017 15:08	1	V303868.D	RXI-5Sil MS 0.25(mm)
IC 480-365690/4		07/06/2017 15:34	1	V303869.D	RXI-5Sil MS 0.25(mm)
ICIS 480-365690/5		07/06/2017 16:00	1	V303870.D	RXI-5Sil MS 0.25(mm)
IC 480-365690/6		07/06/2017 16:26	1	V303871.D	RXI-5Sil MS 0.25(mm)
IC 480-365690/7		07/06/2017 16:52	1	V303872.D	RXI-5Sil MS 0.25(mm)
IC 480-365690/8		07/06/2017 17:18	1	V303873.D	RXI-5Sil MS 0.25(mm)
ICV 480-365690/9		07/06/2017 17:44	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP5973V Start Date: 07/24/2017 13:15

Analysis Batch Number: 368383 End Date: 07/24/2017 20:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-368383/2		07/24/2017 13:15	1	V304166.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-368383/3		07/24/2017 13:40	1	V304167.D	RXI-5Sil MS 0.25(mm)
RL 480-368383/4		07/24/2017 14:06	1		RXI-5Sil MS 0.25(mm)
MB 480-368148/1-A		07/24/2017 14:33	1	V304169.D	RXI-5Sil MS 0.25(mm)
LCS 480-368148/2-A		07/24/2017 15:00	1	V304170.D	RXI-5Sil MS 0.25(mm)
480-121411-3 MS		07/24/2017 15:26	5	V304171.D	RXI-5Sil MS 0.25(mm)
480-121411-3 MSD		07/24/2017 15:53	5	V304172.D	RXI-5Sil MS 0.25(mm)
480-121411-3		07/24/2017 16:20	5	V304173.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		07/24/2017 16:46	50		RXI-5Sil MS 0.25(mm)
480-121411-1		07/24/2017 17:12	5	V304175.D	RXI-5Sil MS 0.25(mm)
480-121411-2		07/24/2017 17:38	1	V304176.D	RXI-5Sil MS 0.25(mm)
480-121411-4		07/24/2017 18:04	5	V304177.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		07/24/2017 18:30	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		07/24/2017 18:56	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		07/24/2017 19:22	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		07/24/2017 19:49	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		07/24/2017 20:16	10		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368148 Batch Start Date: 07/21/17 14:18 Batch Analyst: Palermo, Stephan M

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8270/625LCS 00102	O_8270surr 00062	AnalysisComment
MB 480-368148/1		3550C, 8270D		CALC NOT SET TO RUN	30.28 g	1 mL		1 mL	
LCS 480-368148/2		3550C, 8270D		CALC NOT SET TO RUN	30.33 g	1 mL	1 mL	1 mL	
480-121411-A-3 MS	TP-15	3550C, 8270D	T	CALC NOT SET TO RUN	30.43 g	1 mL	1 mL	1 mL	sandy
480-121411-A-3 MSD	TP-15	3550C, 8270D	T	CALC NOT SET TO RUN	30.05 g	1 mL	1 mL	1 mL	sandy
480-121411-A-3	TP-15	3550C, 8270D	T	CALC NOT SET TO RUN	30.16 g	1 mL		1 mL	sandy
480-121411-A-1	TP-07	3550C, 8270D	T	CALC NOT SET TO RUN	30.31 g	1 mL		1 mL	
480-121411-A-2	TP-09	3550C, 8270D	T	CALC NOT SET TO RUN	30.76 g	1 mL		1 mL	
480-121411-A-4	DUP	3550C, 8270D	T	CALC NOT SET TO RUN	30.40 g	1 mL		1 mL	

Batch Notes	
Balance ID	Balance 5
Batch Comment	Filter paper lot # 9802837
Blank Soil Lot Number	3934403
Analyst ID - Concentration	SP
Na2SO4 ID	3934401
Nominal Amount Used	30 g
Prep Solvent ID	4150991/4149289
Prep Solvent Name	MeCl2/Acetone
Prep Solvent Volume Used	300 mL
Person's name who did the prep	SP
Analyst ID - Reagent Drop Witness	SP
Analyst ID - Reagent Drop	SP
Perform Calculation (0=No, 1=Yes)	0
Vial ID	1634811094

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368148 Batch Start Date: 07/21/17 14:18 Batch Analyst: Palermo, Stephan M

Batch Method: 3550C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM II
PESTICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
TP-07	480-121411-1	75	76	91	107
TP-09	480-121411-2	80	77	91	105
TP-15	480-121411-3	75	78	94	107
DUP	480-121411-4	84	85	102	117
	MB 480-368029/1-A	70	59	96	101
	LCS 480-368029/2-A	71	57	92	100
TP-15 MS	480-121411-3 MS	80	77	95	109
TP-15 MSD	480-121411-3 MSD	91	86	99	112

	QC LIMITS
TCX = Tetrachloro-m-xylene	30-124
DCBP = DCB Decachlorobiphenyl	45-120

Column to be used to flag recovery values

FORM II 8081B

FORM III
PESTICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 25_17-184.D

Lab ID: LCS 480-368029/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
4,4'-DDD	16.3	14.0	86	56-120	
4,4'-DDE	16.3	13.0	80	44-120	
4,4'-DDT	16.3	14.0	86	38-120	
Aldrin	16.3	10.1	62	38-120	
alpha-BHC	16.3	10.1	62	39-120	
alpha-Chlordane	16.3	12.0	74	47-120	
beta-BHC	16.3	10.5	64	40-120	
delta-BHC	16.3	11.2	69	45-120	
Dieldrin	16.3	13.9	86	58-120	
Endosulfan I	16.3	9.78	60	49-120	
Endosulfan II	16.3	10.7	66	55-120	
Endosulfan sulfate	16.3	11.9	73	49-124	
Endrin	16.3	13.2	81	58-120	
Endrin aldehyde	16.3	10.9	67	37-121	
Endrin ketone	16.3	13.3	82	46-123	
gamma-BHC (Lindane)	16.3	11.0	68	50-120	
gamma-Chlordane	16.3	12.0	74	48-120	
Heptachlor	16.3	12.3	76	50-120	
Heptachlor epoxide	16.3	12.7	78	50-120	
Methoxychlor	16.3	18.0	111	58-133	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 25_17-187.D

Lab ID: 480-121411-3 MS Client ID: TP-15 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
4,4'-DDD	19.6	0.58 J	19.4	96	37-126	
4,4'-DDE	19.6	1.2 J	18.3	87	34-120	
4,4'-DDT	19.6	1.1 J	19.9	96	43-123	
Aldrin	19.6	ND	15.7	80	37-125	
alpha-BHC	19.6	ND	14.7	75	39-120	
alpha-Chlordane	19.6	ND	16.4	84	35-120	
beta-BHC	19.6	ND	15.7	80	36-120	
delta-BHC	19.6	ND	16.0	82	34-120	
Dieldrin	19.6	ND	18.3	93	45-120	
Endosulfan I	19.6	ND	13.2	67	39-120	
Endosulfan II	19.6	ND	14.8	75	34-126	
Endosulfan sulfate	19.6	ND	18.8	96	27-130	
Endrin	19.6	ND	17.8	90	47-121	
Endrin aldehyde	19.6	ND	18.5	94	33-123	
Endrin ketone	19.6	ND	19.1	97	43-126	
gamma-BHC (Lindane)	19.6	ND	16.3	83	50-120	
gamma-Chlordane	19.6	ND	26.3	134	31-120	F1
Heptachlor	19.6	ND	17.1	87	42-120	
Heptachlor epoxide	19.6	ND	17.3	88	40-120	
Methoxychlor	19.6	ND	32.8	167	44-150	F1

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 25_17-188.D

Lab ID: 480-121411-3 MSD Client ID: TP-15 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4,4'-DDD	19.7	20.7	102	7	21	37-126	
4,4'-DDE	19.7	19.9	95	8	18	34-120	
4,4'-DDT	19.7	20.9	101	5	25	43-123	
Aldrin	19.7	17.1	87	9	12	37-125	
alpha-BHC	19.7	15.8	80	8	15	39-120	
alpha-Chlordane	19.7	17.5	89	6	23	35-120	
beta-BHC	19.7	16.4	83	5	19	36-120	
delta-BHC	19.7	16.9	86	5	14	34-120	
Dieldrin	19.7	19.3	98	5	12	45-120	
Endosulfan I	19.7	14.0	71	6	18	39-120	
Endosulfan II	19.7	15.1	77	3	26	34-126	
Endosulfan sulfate	19.7	19.4	98	3	35	27-130	
Endrin	19.7	18.5	94	4	20	47-121	
Endrin aldehyde	19.7	19.2	97	4	47	33-123	
Endrin ketone	19.7	19.6	99	3	37	43-126	
gamma-BHC (Lindane)	19.7	17.6	89	8	12	50-120	
gamma-Chlordane	19.7	86.4	438	107	15	31-120	E F1 F2
Heptachlor	19.7	18.6	95	8	22	42-120	
Heptachlor epoxide	19.7	22.7	115	27	15	40-120	F2
Methoxychlor	19.7	17.7	90	60	24	44-150	F2

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM IV
PESTICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: MB 480-368029/1-A

Matrix: Solid Date Extracted: 07/21/2017 06:42

Lab File ID:(1) 25_17-183.D Lab File ID:(2) 25_17-183.D

Date Analyzed:(1) 07/22/2017 11:27 Date Analyzed:(2) 07/22/2017 11:27

Instrument ID:(1) HP6890-25 Instrument ID:(2) HP6890-25

GC Column:(1) RTX-CLPI ID: 0.53(mm) GC Column:(2) RTX-CLPII ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-368029/2-A	07/22/2017 11:47	07/22/2017 11:47
TP-15 MS	480-121411-3 MS	07/22/2017 12:46	07/22/2017 12:46
TP-15 MSD	480-121411-3 MSD	07/22/2017 13:06	07/22/2017 13:06
TP-15	480-121411-3	07/22/2017 15:23	07/22/2017 15:23
TP-07	480-121411-1	07/22/2017 15:43	07/22/2017 15:43
TP-09	480-121411-2	07/22/2017 16:03	07/22/2017 16:03
DUP	480-121411-4	07/22/2017 16:22	07/22/2017 16:22

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: STD3 480-367911/38 Date Analyzed: 07/20/2017 12:03

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm)

Lab File ID (Standard): 25_17-163.D Heated Purge: (Y/N) N

Calibration ID: 30919

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		14306926	1.99				
UPPER LIMIT		28613852	2.49				
LOWER LIMIT		7153463	1.49				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368232/7		13758637	1.99				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: STD3 480-367911/38 Date Analyzed: 07/20/2017 12:03

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm)

Lab File ID (Standard): 25_17-163.D Heated Purge: (Y/N) N

Calibration ID: 30920

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		10246784	2.19				
UPPER LIMIT		20493568	2.69				
LOWER LIMIT		5123392	1.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368232/7		9103394	2.19				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: CCVIS 480-368232/7 Date Analyzed: 07/22/2017 10:08

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm)

Lab File ID (Standard): 25_17-179.D Heated Purge: (Y/N) N

Calibration ID: 30925

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		13758637	1.99				
UPPER LIMIT		27517274	2.49				
LOWER LIMIT		6879319	1.49				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368232/9		13115906	1.99				
MB 480-368029/1-A		11892884	1.99				
LCS 480-368029/2-A		11868225	1.99				
480-121411-3 MS	TP-15 MS	11838954	1.99				
480-121411-3 MSD	TP-15 MSD	11490286	1.99				
480-121411-3	TP-15	11740317	1.99				
480-121411-1	TP-07	12079869	1.99				
480-121411-2	TP-09	11784974	1.99				
480-121411-4	DUP	11896229	1.99				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: CCVIS 480-368232/7 Date Analyzed: 07/22/2017 10:08

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm)

Lab File ID (Standard): 25_17-179.D Heated Purge: (Y/N) N

Calibration ID: 30926

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		9103394	2.19				
UPPER LIMIT		18206788	2.69				
LOWER LIMIT		4551697	1.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368232/9		9066981	2.19				
MB 480-368029/1-A		8593172	2.19				
LCS 480-368029/2-A		8531710	2.19				
480-121411-3 MS	TP-15 MS	8266748	2.19				
480-121411-3 MSD	TP-15 MSD	8096914	2.19				
480-121411-3	TP-15	8178692	2.20				
480-121411-1	TP-07	8372608	2.19				
480-121411-2	TP-09	8190590	2.19				
480-121411-4	DUP	8256822	2.19				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-07 Lab Sample ID: 480-121411-1

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 15:43 Date Analyzed (2): 07/22/2017 15:43

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
delta-BHC	1		3.41	3.39	3.44	0.47		1.6
	2		4.19	4.16	4.21	0.47		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-09 Lab Sample ID: 480-121411-2

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 16:03 Date Analyzed (2): 07/22/2017 16:03

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
4,4'-DDE	1		4.80	4.79	4.84	0.82		46.7
	2		5.73	5.71	5.76	0.51		
Dieldrin	1		5.12	5.10	5.15	1.9		55.1
	2		5.92	5.90	5.95	1.1		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 Lab Sample ID: 480-121411-3

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 15:23 Date Analyzed (2): 07/22/2017 15:23

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
4,4'-DDE	1		4.82	4.79	4.84	1.1		0.4
	2		5.73	5.71	5.76	1.2		
4,4'-DDD	1		5.44	5.41	5.46	0.56		3.9
	2		6.33	6.31	6.36	0.58		
4,4'-DDT	1		5.70	5.70	5.75	1.1		0.3
	2		6.66	6.64	6.69	1.1		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS Lab Sample ID: 480-121411-3 MS

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 12:46 Date Analyzed (2): 07/22/2017 12:46

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.94	2.91	2.96	13.4		9.2
	2		3.45	3.43	3.48	14.7		
gamma-BHC (Lindane)	1		3.19	3.17	3.22	15.0		8.3
	2		3.80	3.77	3.82	16.3		
beta-BHC	1		3.26	3.24	3.29	17.7		12.0
	2		3.87	3.85	3.90	15.7		
delta-BHC	1		3.42	3.39	3.44	15.9		1.1
	2		4.18	4.16	4.21	16.0		
Heptachlor	1		3.60	3.58	3.63	16.7		2.8
	2		4.26	4.24	4.29	17.1		
Aldrin	1		3.88	3.86	3.91	14.7		6.3
	2		4.61	4.59	4.64	15.7		
Heptachlor epoxide	1		4.48	4.45	4.50	17.1		1.1
	2		5.22	5.19	5.24	17.3		
gamma-Chlordane	1		4.60	4.58	4.63	14.8		56.1
	2		5.42	5.39	5.44	26.3		
alpha-Chlordane	1		4.74	4.71	4.76	13.8		17.3
	2		5.57	5.55	5.60	16.4		
4,4'-DDE	1		4.82	4.79	4.84	16.6		9.9
	2		5.73	5.71	5.76	18.3		
Endosulfan I	1		4.87	4.85	4.90	12.6		4.6
	2		5.64	5.61	5.66	13.2		
Dieldrin	1		5.12	5.10	5.15	17.6		4.4
	2		5.92	5.90	5.95	18.3		
Endrin	1		5.36	5.33	5.38	17.6		1.1
	2		6.24	6.22	6.27	17.8		
4,4'-DDD	1		5.43	5.41	5.46	17.2		12.1
	2		6.33	6.31	6.36	19.4		
Endosulfan II	1		5.59	5.56	5.61	13.9		5.9
	2		6.46	6.44	6.49	14.8		
4,4'-DDT	1		5.72	5.70	5.75	18.4		7.7
	2		6.66	6.64	6.69	19.9		
Endrin aldehyde	1		6.02	6.00	6.05	14.7		22.6
	2		6.81	6.78	6.83	18.5		
Methoxychlor	1		6.23	6.21	6.26	19.2		52.5
	2		7.35	7.33	7.38	32.8		
Endosulfan sulfate	1		6.47	6.44	6.49	25.0		28.4
	2		7.09	7.07	7.12	18.8		
Endrin ketone	1		6.75	6.73	6.78	18.9		0.7
	2		7.64	7.62	7.67	19.1		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD Lab Sample ID: 480-121411-3 MSD

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 13:06 Date Analyzed (2): 07/22/2017 13:06

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.94	2.91	2.96	14.4		9.5
	2		3.45	3.43	3.48	15.8		
gamma-BHC (Lindane)	1		3.19	3.17	3.22	16.9		4.3
	2		3.80	3.77	3.82	17.6		
beta-BHC	1		3.26	3.24	3.29	21.6		27.2
	2		3.87	3.85	3.90	16.4		
delta-BHC	1		3.41	3.39	3.44	18.3		8.1
	2		4.18	4.16	4.21	16.9		
Heptachlor	1		3.60	3.58	3.63	20.4		9.2
	2		4.26	4.24	4.29	18.6		
Aldrin	1		3.88	3.86	3.91	16.0		6.7
	2		4.61	4.59	4.64	17.1		
Heptachlor epoxide	1		4.47	4.45	4.50	18.0		23.0
	2		5.22	5.19	5.24	22.7		
gamma-Chlordane	1		4.60	4.58	4.63	15.2		140.2
	2		5.42	5.39	5.44	86.4		
alpha-Chlordane	1		4.73	4.71	4.76	15.0		15.4
	2		5.57	5.55	5.60	17.5		
4,4'-DDE	1		4.82	4.79	4.84	18.4		8.0
	2		5.73	5.71	5.76	19.9		
Endosulfan I	1		4.87	4.85	4.90	13.4		4.3
	2		5.64	5.61	5.66	14.0		
Dieldrin	1		5.12	5.10	5.15	18.5		4.2
	2		5.92	5.90	5.95	19.3		
Endrin	1		5.35	5.33	5.38	18.9		2.5
	2		6.24	6.22	6.27	18.5		
4,4'-DDD	1		5.43	5.41	5.46	18.3		12.7
	2		6.33	6.31	6.36	20.7		
Endosulfan II	1		5.58	5.56	5.61	14.3		5.4
	2		6.46	6.44	6.49	15.1		
4,4'-DDT	1		5.72	5.70	5.75	19.6		6.7
	2		6.66	6.64	6.69	20.9		
Endrin aldehyde	1		6.02	6.00	6.05	15.9		18.9
	2		6.80	6.78	6.83	19.2		
Methoxychlor	1		6.23	6.21	6.26	20.2		13.0
	2		7.35	7.33	7.38	17.7		
Endosulfan sulfate	1		6.47	6.44	6.49	26.2		29.8
	2		7.09	7.07	7.12	19.4		
Endrin ketone	1		6.75	6.73	6.78	19.8		1.1
	2		7.64	7.62	7.67	19.6		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-121411-4

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 16:22 Date Analyzed (2): 07/22/2017 16:22

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
delta-BHC	1		3.40	3.39	3.44	0.51		5.3
	2		4.18	4.16	4.21	0.48		
4,4'-DDE	1		4.81	4.79	4.84	1.2		70.9
	2		5.73	5.71	5.76	0.56		
Methoxychlor	1		6.24	6.21	6.26	0.73		19.2
	2		7.36	7.33	7.38	0.89		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-368029/2-A

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/22/2017 11:47 Date Analyzed (2): 07/22/2017 11:47

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.94	2.91	2.96	9.75		3.1
	2		3.45	3.43	3.48	10.1		
gamma-BHC (Lindane)	1		3.19	3.17	3.22	10.5		5.3
	2		3.80	3.77	3.82	11.0		
beta-BHC	1		3.26	3.24	3.29	10.7		1.9
	2		3.87	3.85	3.90	10.5		
delta-BHC	1		3.41	3.39	3.44	11.1		1.4
	2		4.18	4.16	4.21	11.2		
Heptachlor	1		3.60	3.58	3.63	12.0		2.6
	2		4.26	4.24	4.29	12.3		
Aldrin	1		3.88	3.86	3.91	9.74		3.9
	2		4.61	4.59	4.64	10.1		
Heptachlor epoxide	1		4.47	4.45	4.50	11.9		6.5
	2		5.22	5.19	5.24	12.7		
gamma-Chlordane	1		4.60	4.58	4.63	11.3		5.8
	2		5.42	5.39	5.44	12.0		
alpha-Chlordane	1		4.73	4.71	4.76	10.7		12.0
	2		5.57	5.55	5.60	12.0		
4,4'-DDE	1		4.82	4.79	4.84	12.1		6.9
	2		5.73	5.71	5.76	13.0		
Endosulfan I	1		4.87	4.85	4.90	9.55		2.4
	2		5.64	5.61	5.66	9.78		
Dieldrin	1		5.12	5.10	5.15	13.3		5.0
	2		5.92	5.90	5.95	13.9		
Endrin	1		5.35	5.33	5.38	13.3		0.5
	2		6.24	6.22	6.27	13.2		
4,4'-DDD	1		5.43	5.41	5.46	13.3		4.9
	2		6.33	6.31	6.36	14.0		
Endosulfan II	1		5.58	5.56	5.61	10.6		0.2
	2		6.46	6.44	6.49	10.7		
4,4'-DDT	1		5.72	5.70	5.75	14.1		0.4
	2		6.66	6.64	6.69	14.0		
Endrin aldehyde	1		6.02	6.00	6.05	9.12		17.8
	2		6.81	6.78	6.83	10.9		
Methoxychlor	1		6.23	6.21	6.26	14.2		24.0
	2		7.35	7.33	7.38	18.0		
Endosulfan sulfate	1		6.47	6.44	6.49	14.2		17.4
	2		7.09	7.07	7.12	11.9		
Endrin ketone	1		6.75	6.73	6.78	13.4		0.5
	2		7.64	7.62	7.67	13.3		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-07 | Lab Sample ID: 480-121411-1

Matrix: Solid | Lab File ID: 25_17-196.D

Analysis Method: 8081B | Date Collected: 07/20/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.66(g) | Date Analyzed: 07/22/2017 15:43

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 20.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	91		45-120
877-09-8	Tetrachloro-m-xylene	75		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-196.D
Lims ID: 480-121411-A-1-A
Client ID: TP-07
Sample Type: Client
Inject. Date: 22-Jul-2017 15:43:17 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:38:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	12079869	0.5000	
2	2.193	2.193	0.000	8372608	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	331880	0.0150	
2	2.903	2.903	0.000	316494	0.0151	
					RPD = 0.65	
9 delta-BHC						
1	3.407	3.417	-0.010	7445	0.001134	
2	4.187	4.180	0.007	1576	0.001152	
					RPD = 1.58	
$ 34 DCB Decachlorobiphenyl						
1	7.783	7.780	0.003	452259	0.0183	
2	8.840	8.843	-0.003	286843	0.0213	
					RPD = 15.47	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

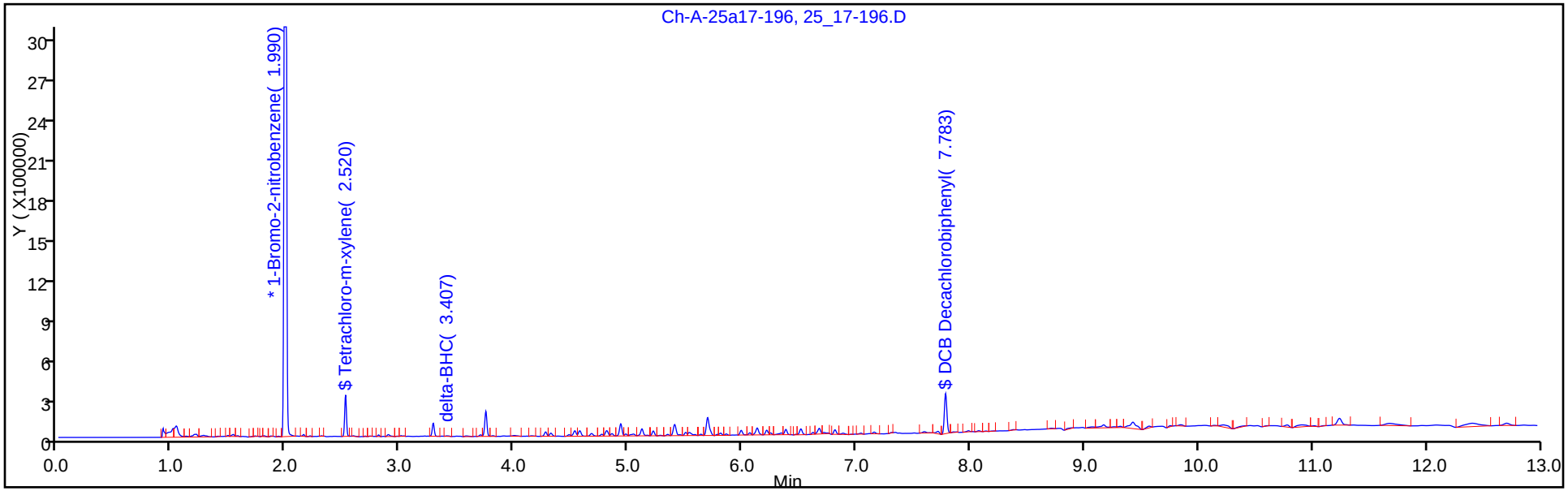
Report Date: 24-Jul-2017 07:46:53 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

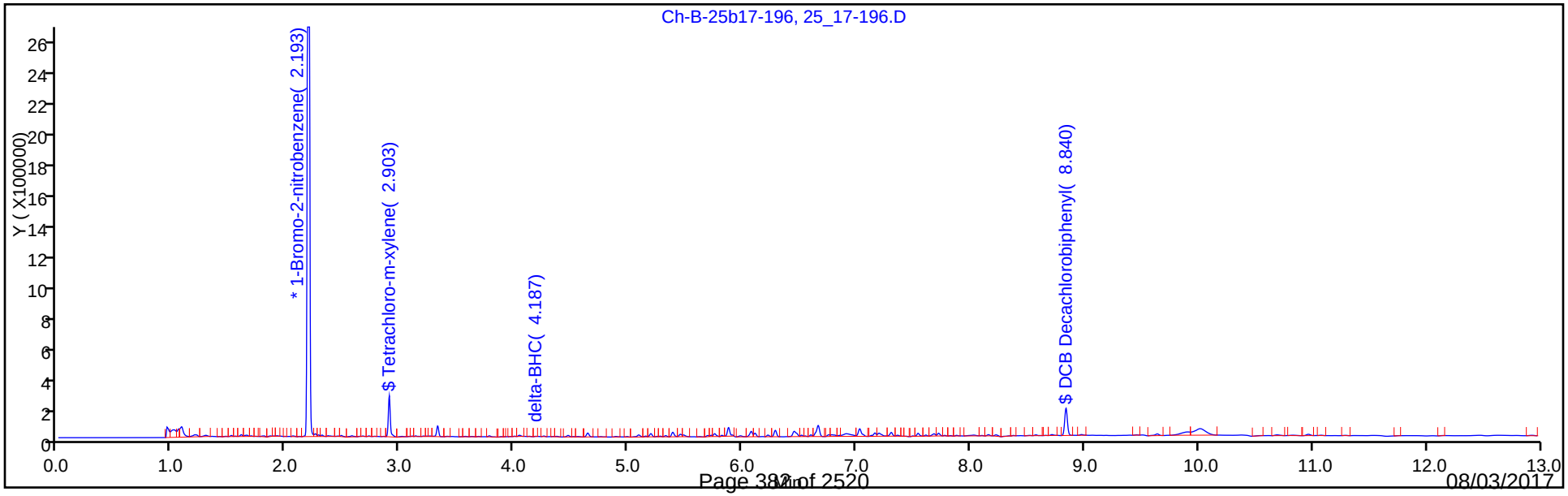
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-196.D

Injection Date:	22-Jul-2017 15:43:17	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-1-A	Lab Sample ID:	480-121411-1	Worklist Smp#:	24
Client ID:	TP-07				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-07 | Lab Sample ID: 480-121411-1

Matrix: Solid | Lab File ID: 25_17-196.D

Analysis Method: 8081B | Date Collected: 07/20/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.66(g) | Date Analyzed: 07/22/2017 15:43

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 20.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.1	0.40
72-55-9	4,4'-DDE	ND		2.1	0.43
50-29-3	4,4'-DDT	ND		2.1	0.48
309-00-2	Aldrin	ND		2.1	0.51
319-84-6	alpha-BHC	ND		2.1	0.37
5103-71-9	alpha-Chlordane	ND		2.1	1.0
319-85-7	beta-BHC	ND		2.1	0.37
319-86-8	delta-BHC	0.47	J	2.1	0.38
60-57-1	Dieldrin	ND		2.1	0.49
959-98-8	Endosulfan I	ND		2.1	0.40
33213-65-9	Endosulfan II	ND		2.1	0.37
1031-07-8	Endosulfan sulfate	ND		2.1	0.38
72-20-8	Endrin	ND		2.1	0.41
7421-93-4	Endrin aldehyde	ND		2.1	0.53
53494-70-5	Endrin ketone	ND		2.1	0.51
58-89-9	gamma-BHC (Lindane)	ND		2.1	0.38
5103-74-2	gamma-Chlordane	ND		2.1	0.66
76-44-8	Heptachlor	ND		2.1	0.45
1024-57-3	Heptachlor epoxide	ND		2.1	0.53
72-43-5	Methoxychlor	ND		2.1	0.42
8001-35-2	Toxaphene	ND		21	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	107		45-120
877-09-8	Tetrachloro-m-xylene	76		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-196.D
Lims ID: 480-121411-A-1-A
Client ID: TP-07
Sample Type: Client
Inject. Date: 22-Jul-2017 15:43:17 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:38:38

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	12079869	0.5000	
2	2.193	2.193	0.000	8372608	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	331880	0.0150	
2	2.903	2.903	0.000	316494	0.0151	
					RPD = 0.65	
9 delta-BHC						
1	3.407	3.417	-0.010	7445	0.001134	
2	4.187	4.180	0.007	1576	0.001152	
					RPD = 1.58	
$ 34 DCB Decachlorobiphenyl						
1	7.783	7.780	0.003	452259	0.0183	
2	8.840	8.843	-0.003	286843	0.0213	
					RPD = 15.47	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

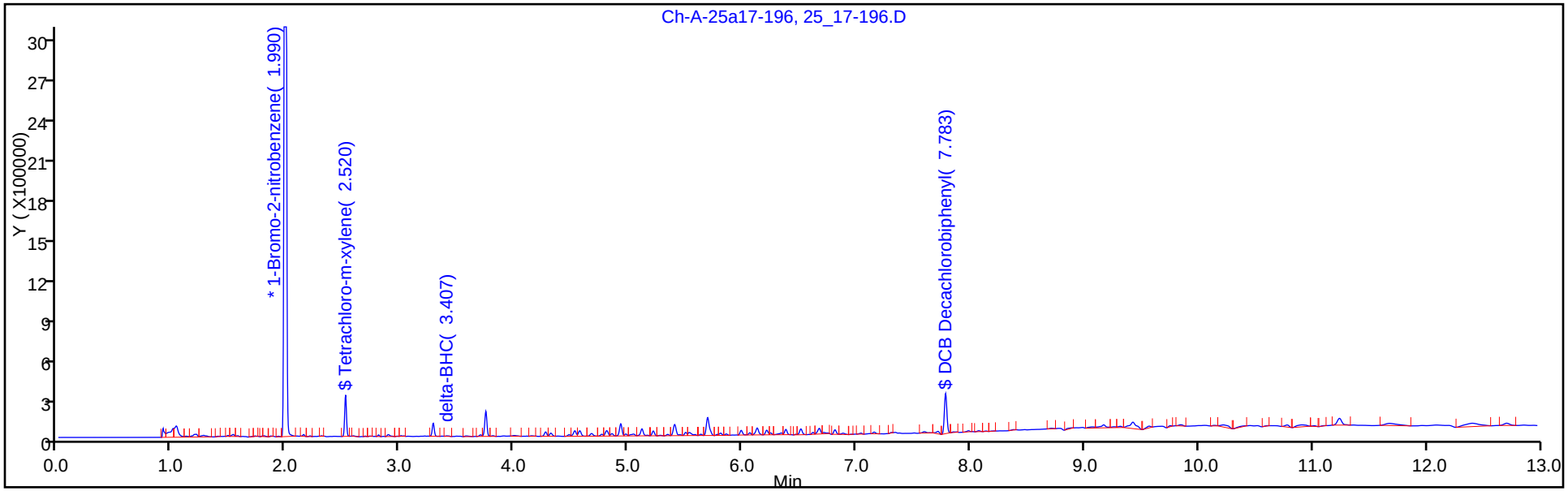
Report Date: 24-Jul-2017 07:46:53 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

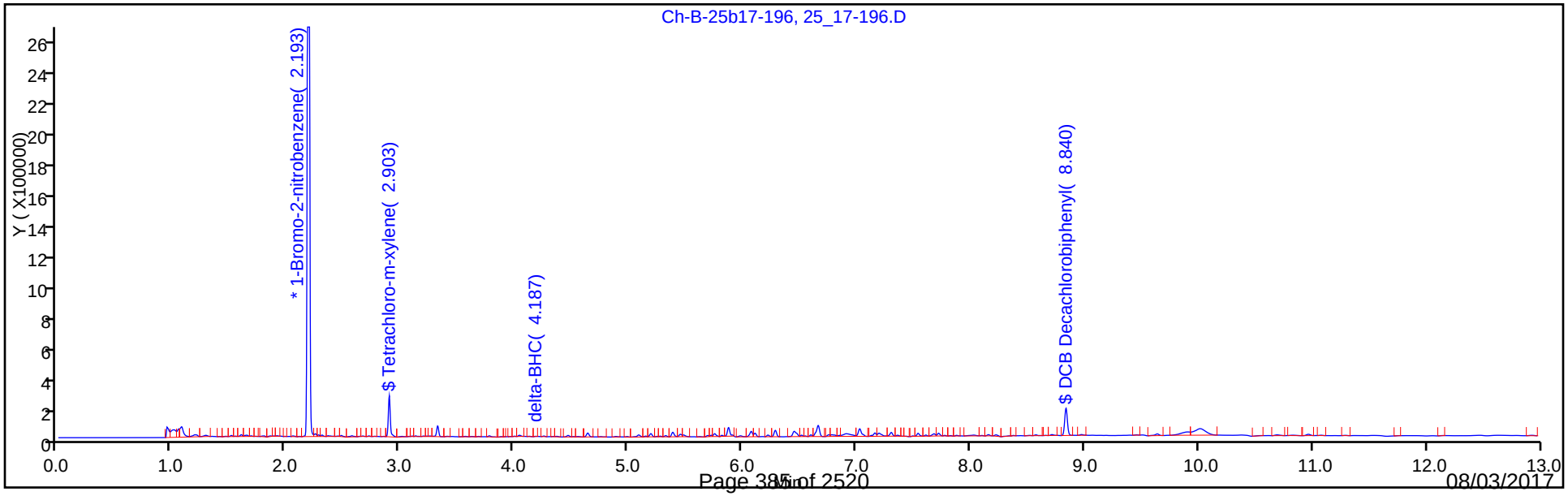
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-196.D

Injection Date:	22-Jul-2017 15:43:17	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-1-A	Lab Sample ID:	480-121411-1	Worklist Smp#:	24
Client ID:	TP-07				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-09 | Lab Sample ID: 480-121411-2

Matrix: Solid | Lab File ID: 25_17-197.D

Analysis Method: 8081B | Date Collected: 07/20/2017 10:30

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.39(g) | Date Analyzed: 07/22/2017 16:03

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	91		45-120
877-09-8	Tetrachloro-m-xylene	80		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-197.D
Lims ID: 480-121411-A-2-A
Client ID: TP-09
Sample Type: Client
Inject. Date: 22-Jul-2017 16:03:02 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:39:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	11784974	0.5000	
2	2.193	2.193	0.000	8190590	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	344195	0.0159	
2	2.903	2.903	0.000	315289	0.0154	
					RPD = 3.27	
16 gamma-Chlordane						
1	4.577	4.600	-0.023	44676	0.001504	
2	5.393	5.417	-0.024	29408	0.002076	
					RPD = 31.96	
18 4,4'-DDE						
1	4.803	4.817	-0.014	42278	0.002041	
2	5.730	5.733	-0.003	8299	0.001268	
					RPD = 46.75	
21 Dieldrin						
1	5.120	5.120	0.000	158893	0.004774	
2	5.917	5.927	-0.010	48786	0.002712	
					RPD = 55.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.780	0.000	442079	0.0183	
2	8.840	8.843	-0.003	277757	0.0211	
					RPD = 14.25	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

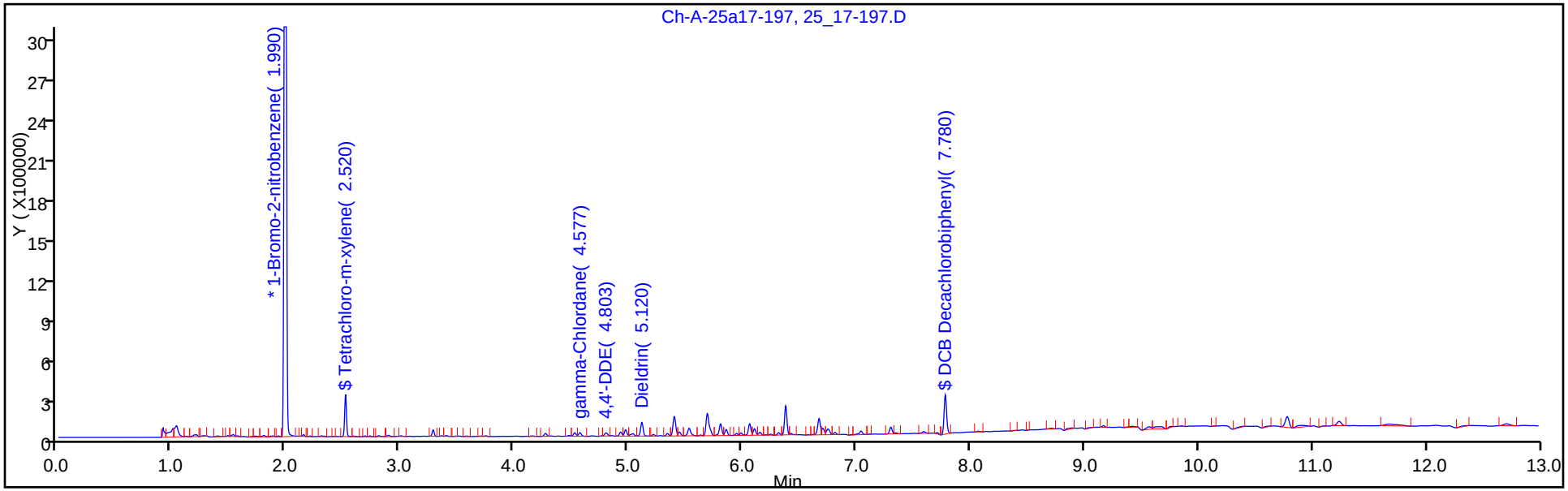
Report Date: 24-Jul-2017 07:46:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

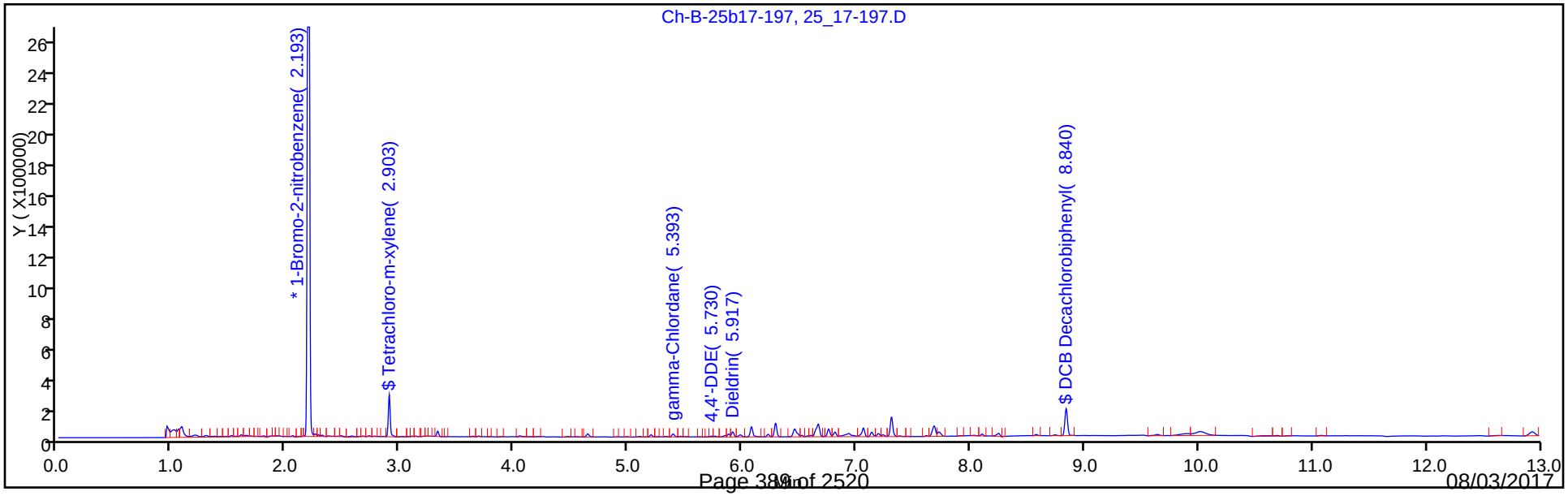
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-197.D

Injection Date:	22-Jul-2017 16:03:02	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-2-A	Lab Sample ID:	480-121411-2	Worklist Smp#:	25
Client ID:	TP-09				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-09 | Lab Sample ID: 480-121411-2

Matrix: Solid | Lab File ID: 25_17-197.D

Analysis Method: 8081B | Date Collected: 07/20/2017 10:30

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.39(g) | Date Analyzed: 07/22/2017 16:03

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.0	0.39
72-55-9	4,4'-DDE	0.51	J	2.0	0.42
50-29-3	4,4'-DDT	ND		2.0	0.47
309-00-2	Aldrin	ND		2.0	0.49
319-84-6	alpha-BHC	ND		2.0	0.36
5103-71-9	alpha-Chlordane	ND		2.0	1.0
319-85-7	beta-BHC	ND		2.0	0.36
319-86-8	delta-BHC	ND		2.0	0.37
60-57-1	Dieldrin	1.1	J	2.0	0.48
959-98-8	Endosulfan I	ND		2.0	0.38
33213-65-9	Endosulfan II	ND		2.0	0.36
1031-07-8	Endosulfan sulfate	ND		2.0	0.37
72-20-8	Endrin	ND		2.0	0.40
7421-93-4	Endrin aldehyde	ND		2.0	0.51
53494-70-5	Endrin ketone	ND		2.0	0.49
58-89-9	gamma-BHC (Lindane)	ND		2.0	0.37
5103-74-2	gamma-Chlordane	0.83	J	2.0	0.64
76-44-8	Heptachlor	ND		2.0	0.43
1024-57-3	Heptachlor epoxide	ND		2.0	0.52
72-43-5	Methoxychlor	ND		2.0	0.41
8001-35-2	Toxaphene	ND		20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	105		45-120
877-09-8	Tetrachloro-m-xylene	77		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-197.D
Lims ID: 480-121411-A-2-A
Client ID: TP-09
Sample Type: Client
Inject. Date: 22-Jul-2017 16:03:02 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:39:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.990	0.000	11784974	0.5000	
2	2.193	2.193	0.000	8190590	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	344195	0.0159	
2	2.903	2.903	0.000	315289	0.0154	
					RPD = 3.27	
16 gamma-Chlordane						
1	4.577	4.600	-0.023	44676	0.001504	
2	5.393	5.417	-0.024	29408	0.002076	
					RPD = 31.96	
18 4,4'-DDE						
1	4.803	4.817	-0.014	42278	0.002041	
2	5.730	5.733	-0.003	8299	0.001268	
					RPD = 46.75	
21 Dieldrin						
1	5.120	5.120	0.000	158893	0.004774	
2	5.917	5.927	-0.010	48786	0.002712	
					RPD = 55.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.780	0.000	442079	0.0183	
2	8.840	8.843	-0.003	277757	0.0211	
					RPD = 14.25	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

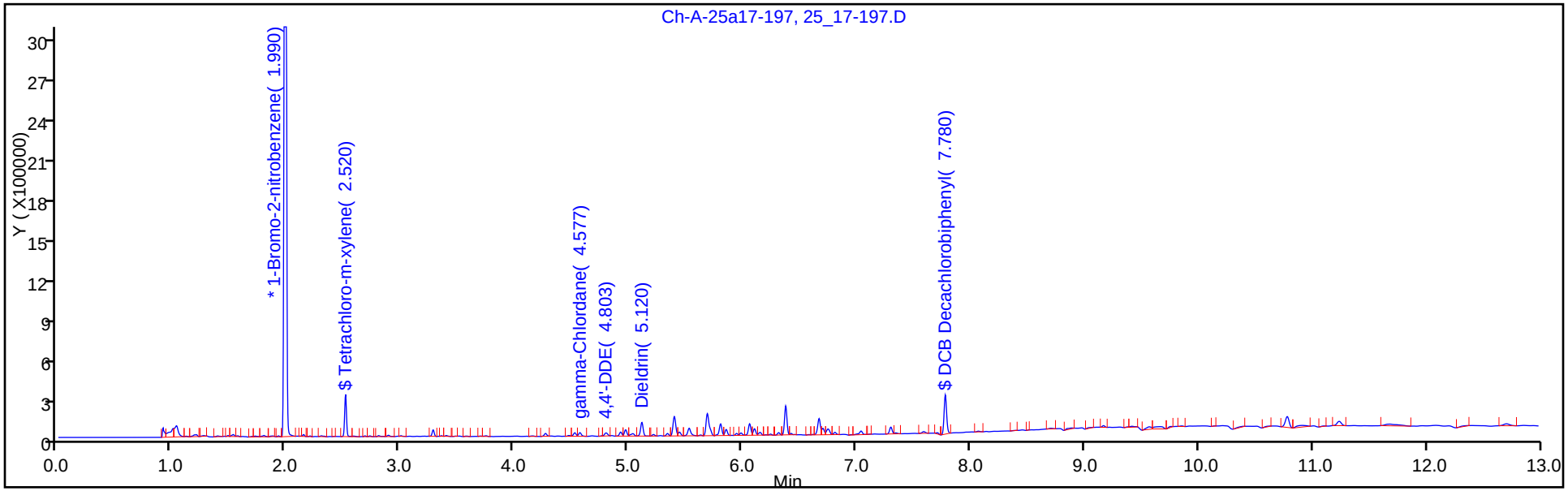
Report Date: 24-Jul-2017 07:46:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

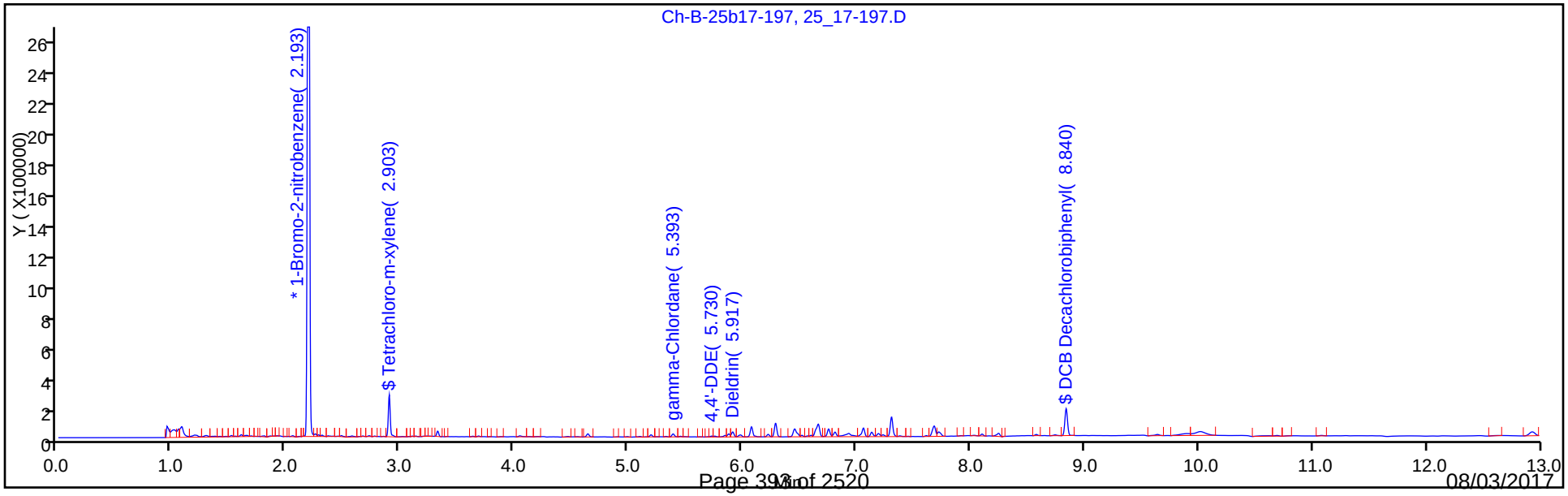
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-197.D

Injection Date:	22-Jul-2017 16:03:02	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-2-A	Lab Sample ID:	480-121411-2	Worklist Smp#:	25
Client ID:	TP-09				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 | Lab Sample ID: 480-121411-3

Matrix: Solid | Lab File ID: 25_17-195.D

Analysis Method: 8081B | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.61(g) | Date Analyzed: 07/22/2017 15:23

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	94		45-120
877-09-8	Tetrachloro-m-xylene	75		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-195.D
Lims ID: 480-121411-A-3-C
Client ID: TP-15
Sample Type: Client
Inject. Date: 22-Jul-2017 15:23:45 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:37:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.993	1.990	0.003	11740317	0.5000	
2	2.197	2.193	0.004	8178692	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	321120	0.0150	
2	2.903	2.903	0.000	319960	0.0156	
					RPD = 4.42	
18 4,4'-DDE						
1	4.820	4.817	0.003	74539	0.002930	
2	5.730	5.733	-0.003	46342	0.002942	
					RPD = 0.41	
24 4,4'-DDD						M
1	5.437	5.433	0.004	13990	0.001429	M
2	6.333	6.337	-0.004	6599	0.001486	
					RPD = 3.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
28 4,4'-DDT						
1	5.703	5.723	-0.020	49764	0.002802	
2	6.660	6.663	-0.003	16237	0.002794	
					RPD = 0.28	
$ 34 DCB Decachlorobiphenyl						
1	7.783	7.780	0.003	454751	0.0189	
2	8.840	8.843	-0.003	282592	0.0215	
					RPD = 12.90	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

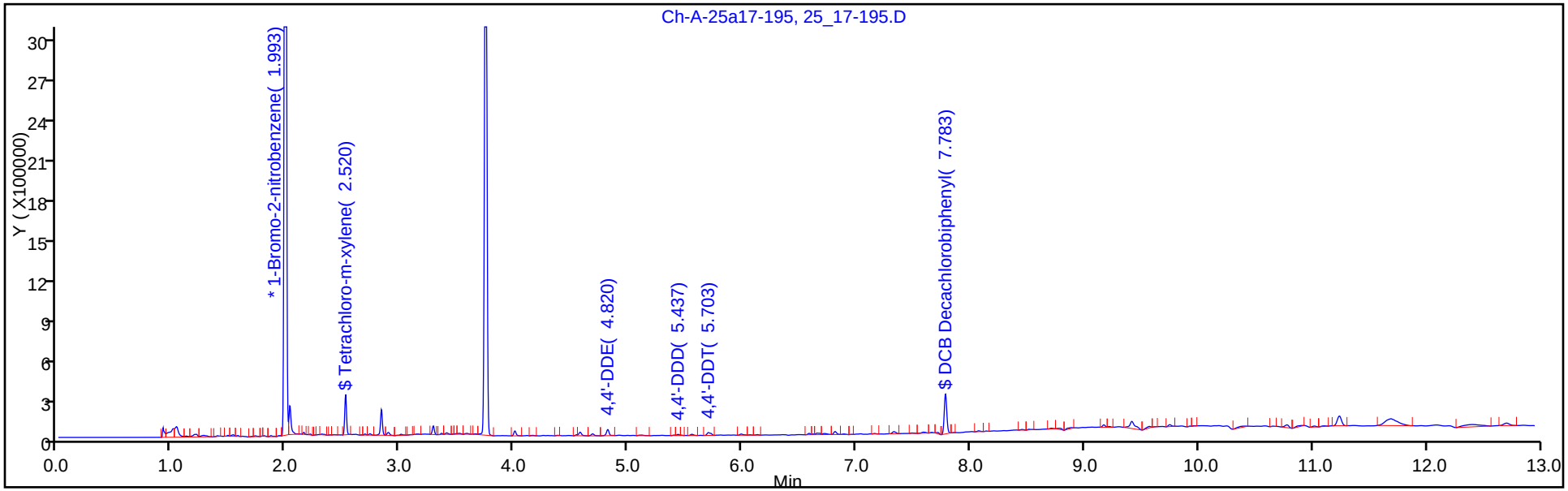
Report Date: 24-Jul-2017 07:46:51 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

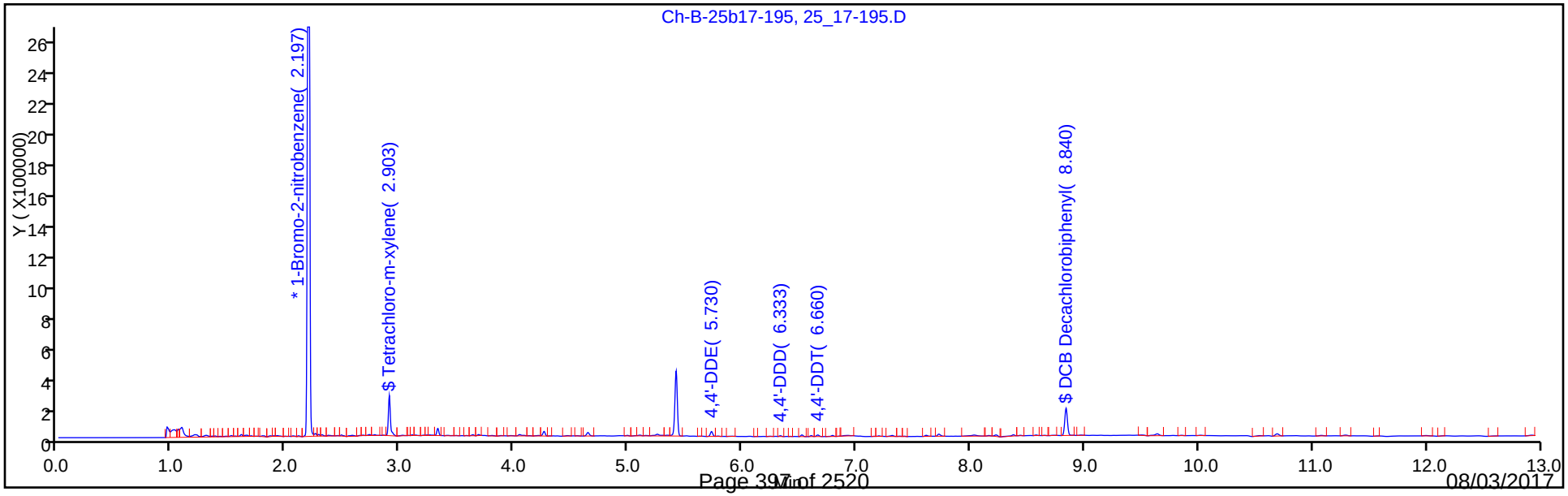
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-195.D

Injection Date:	22-Jul-2017 15:23:45	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-C	Lab Sample ID:	480-121411-3	Worklist Smp#:	23
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-195.D

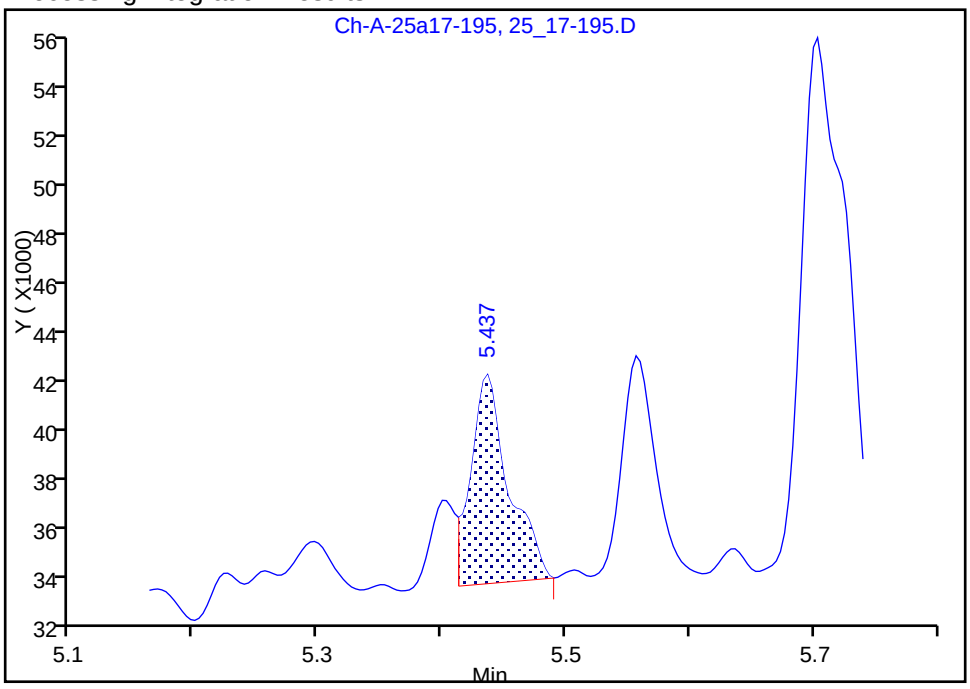
Injection Date:	22-Jul-2017 15:23:45	Instrument ID:	HP6890-25		
Lims ID:	480-121411-A-3-C	Lab Sample ID:	480-121411-3		
Client ID:	TP-15				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

24 4,4'-DDD, CAS: 72-54-8

Signal: 1

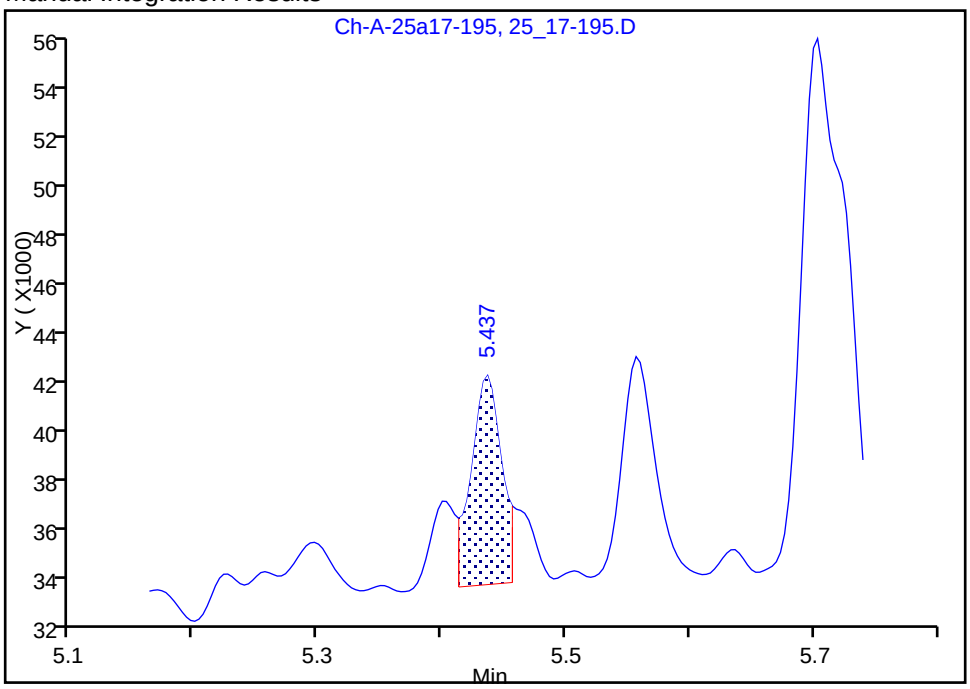
Processing Integration Results

RT: 5.44
Area: 17363
Amount: 0.001543
Amount Units: ng/ul



Manual Integration Results

RT: 5.44
Area: 13990
Amount: 0.001429
Amount Units: ng/ul



Reviewer: NearyM, 24-Jul-2017 07:37:04

Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 | Lab Sample ID: 480-121411-3

Matrix: Solid | Lab File ID: 25_17-195.D

Analysis Method: 8081B | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.61(g) | Date Analyzed: 07/22/2017 15:23

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.58	J	2.0	0.38
72-55-9	4,4'-DDE	1.2	J	2.0	0.41
50-29-3	4,4'-DDT	1.1	J	2.0	0.46
309-00-2	Aldrin	ND		2.0	0.48
319-84-6	alpha-BHC	ND		2.0	0.35
5103-71-9	alpha-Chlordane	ND		2.0	0.97
319-85-7	beta-BHC	ND		2.0	0.35
319-86-8	delta-BHC	ND		2.0	0.36
60-57-1	Dieldrin	ND		2.0	0.47
959-98-8	Endosulfan I	ND		2.0	0.38
33213-65-9	Endosulfan II	ND		2.0	0.35
1031-07-8	Endosulfan sulfate	ND		2.0	0.37
72-20-8	Endrin	ND		2.0	0.39
7421-93-4	Endrin aldehyde	ND		2.0	0.50
53494-70-5	Endrin ketone	ND		2.0	0.48
58-89-9	gamma-BHC (Lindane)	ND		2.0	0.36
5103-74-2	gamma-Chlordane	ND	F2 F1	2.0	0.62
76-44-8	Heptachlor	ND		2.0	0.42
1024-57-3	Heptachlor epoxide	ND	F2	2.0	0.51
72-43-5	Methoxychlor	ND	F2 F1	2.0	0.40
8001-35-2	Toxaphene	ND		20	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	107		45-120
877-09-8	Tetrachloro-m-xylene	78		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-195.D
Lims ID: 480-121411-A-3-C
Client ID: TP-15
Sample Type: Client
Inject. Date: 22-Jul-2017 15:23:45 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:37:23

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.993	1.990	0.003	11740317	0.5000	
2	2.197	2.193	0.004	8178692	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.517	0.003	321120	0.0150	
2	2.903	2.903	0.000	319960	0.0156	
					RPD = 4.42	
18 4,4'-DDE						
1	4.820	4.817	0.003	74539	0.002930	
2	5.730	5.733	-0.003	46342	0.002942	
					RPD = 0.41	
24 4,4'-DDD						M
1	5.437	5.433	0.004	13990	0.001429	M
2	6.333	6.337	-0.004	6599	0.001486	
					RPD = 3.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
28 4,4'-DDT						
1	5.703	5.723	-0.020	49764	0.002802	
2	6.660	6.663	-0.003	16237	0.002794	
					RPD = 0.28	
$ 34 DCB Decachlorobiphenyl						
1	7.783	7.780	0.003	454751	0.0189	
2	8.840	8.843	-0.003	282592	0.0215	
					RPD = 12.90	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

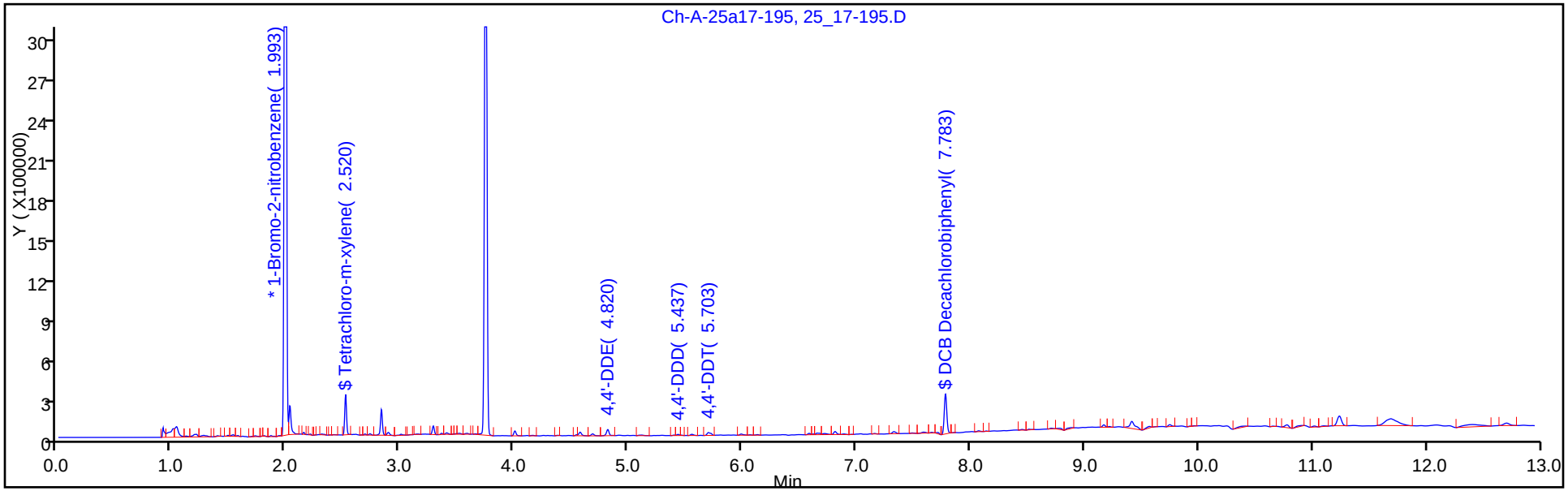
Report Date: 24-Jul-2017 07:46:52 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

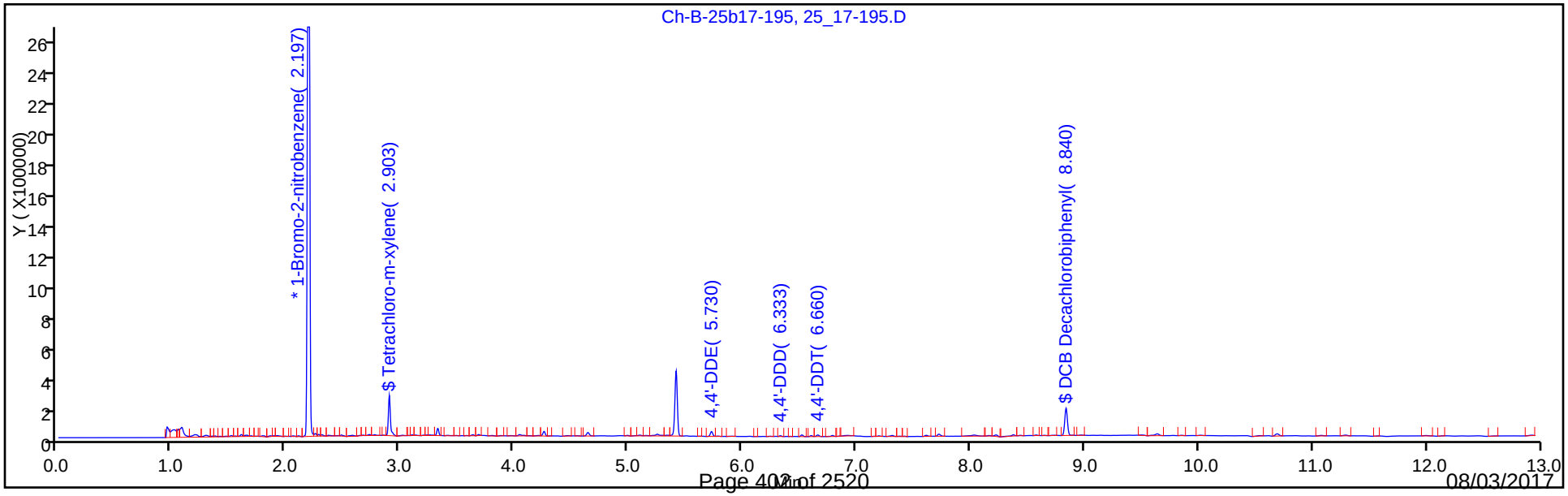
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-195.D

Injection Date:	22-Jul-2017 15:23:45	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-C	Lab Sample ID:	480-121411-3	Worklist Smp#:	23
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121411-4

Matrix: Solid | Lab File ID: 25_17-198.D

Analysis Method: 8081B | Date Collected: 07/20/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.72(g) | Date Analyzed: 07/22/2017 16:22

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	102		45-120
877-09-8	Tetrachloro-m-xylene	84		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-198.D
Lims ID: 480-121411-A-4-A
Client ID: DUP
Sample Type: Client
Inject. Date: 22-Jul-2017 16:22:30 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:40:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.987	1.990	-0.003	11896229	0.5000	
2	2.193	2.193	0.000	8256822	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.517	0.000	369898	0.0169	
2	2.900	2.903	-0.003	350817	0.0169	
					RPD = 0.54	
9 delta-BHC						
1	3.400	3.417	-0.017	11597	0.001229	
2	4.183	4.180	0.003	1957	0.001165	
					RPD = 5.28	
18 4,4'-DDE						
1	4.807	4.817	-0.010	72010	0.002835	
2	5.727	5.733	-0.006	10263	0.001350	
					RPD = 70.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
30 Methoxychlor						
1	6.243	6.233	0.010	18217	0.001774	
2	7.363	7.350	0.013	4005	0.002151	
					RPD = 19.22	
$ 34 DCB Decachlorobiphenyl						
1	7.777	7.780	-0.003	497189	0.0204	
2	8.837	8.843	-0.006	309609	0.0233	
					RPD = 13.45	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

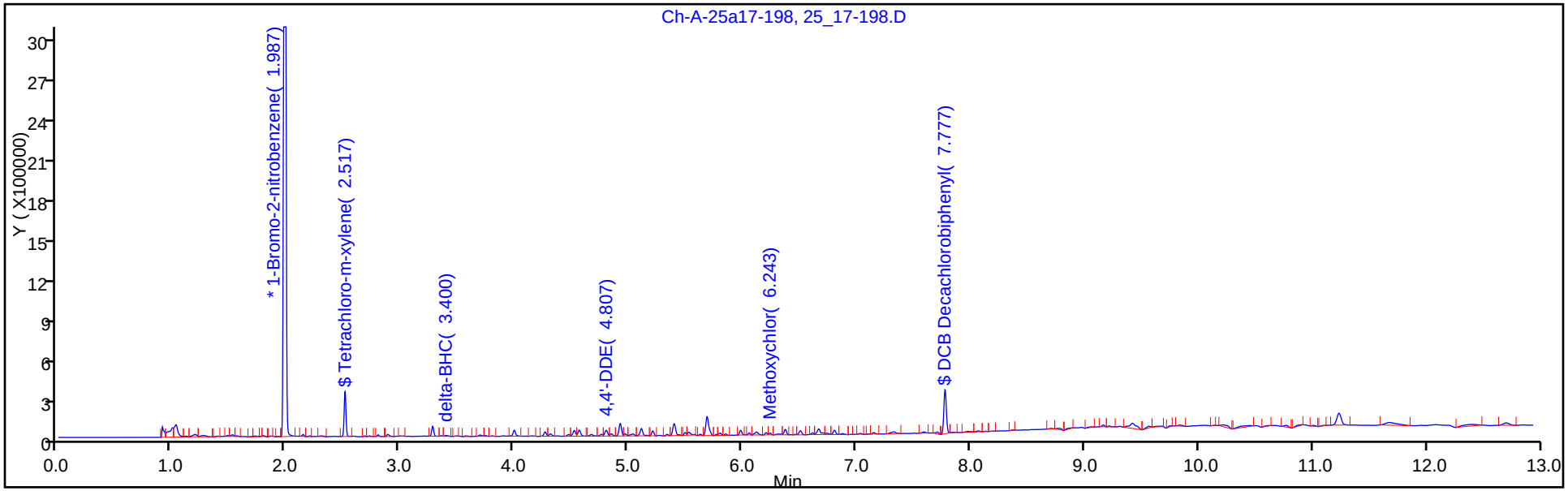
Report Date: 24-Jul-2017 07:46:56 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

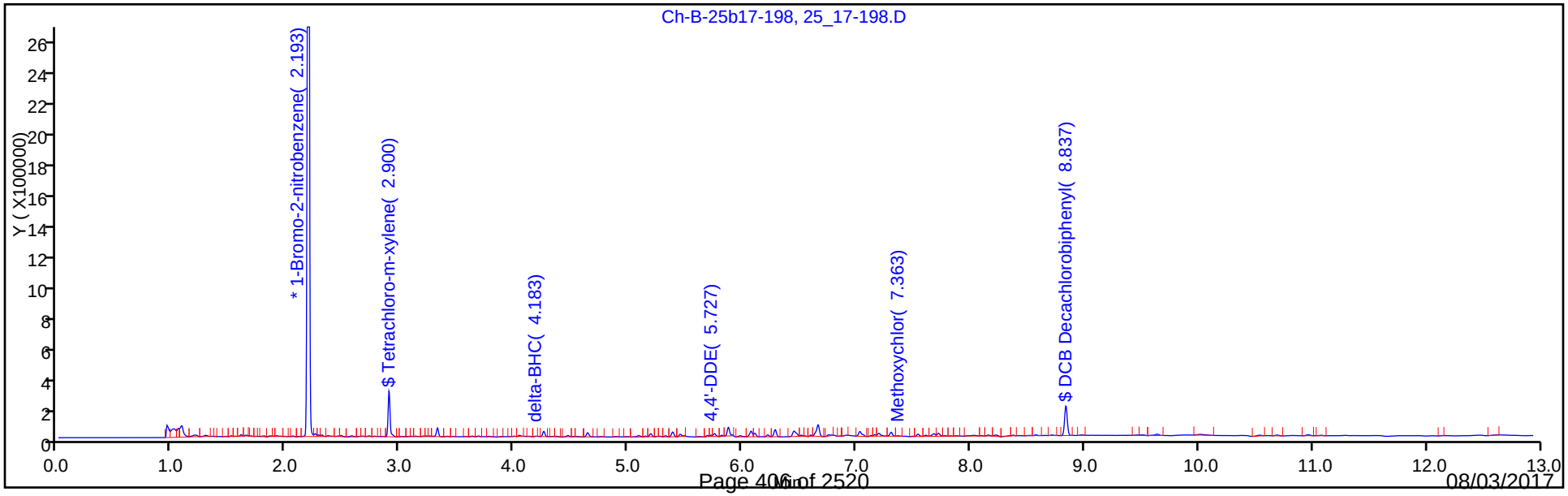
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-198.D

Injection Date:	22-Jul-2017 16:22:30	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-4-A	Lab Sample ID:	480-121411-4	Worklist Smp#:	26
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121411-4

Matrix: Solid | Lab File ID: 25_17-198.D

Analysis Method: 8081B | Date Collected: 07/20/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.72(g) | Date Analyzed: 07/22/2017 16:22

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.1	0.40
72-55-9	4,4'-DDE	0.56	J	2.1	0.43
50-29-3	4,4'-DDT	ND		2.1	0.48
309-00-2	Aldrin	ND		2.1	0.51
319-84-6	alpha-BHC	ND		2.1	0.37
5103-71-9	alpha-Chlordane	ND		2.1	1.0
319-85-7	beta-BHC	ND		2.1	0.37
319-86-8	delta-BHC	0.48	J	2.1	0.39
60-57-1	Dieldrin	ND		2.1	0.50
959-98-8	Endosulfan I	ND		2.1	0.40
33213-65-9	Endosulfan II	ND		2.1	0.37
1031-07-8	Endosulfan sulfate	ND		2.1	0.39
72-20-8	Endrin	ND		2.1	0.41
7421-93-4	Endrin aldehyde	ND		2.1	0.53
53494-70-5	Endrin ketone	ND		2.1	0.51
58-89-9	gamma-BHC (Lindane)	ND		2.1	0.38
5103-74-2	gamma-Chlordane	ND		2.1	0.66
76-44-8	Heptachlor	ND		2.1	0.45
1024-57-3	Heptachlor epoxide	ND		2.1	0.53
72-43-5	Methoxychlor	0.89	J	2.1	0.42
8001-35-2	Toxaphene	ND		21	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	117		45-120
877-09-8	Tetrachloro-m-xylene	85		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-198.D
Lims ID: 480-121411-A-4-A
Client ID: DUP
Sample Type: Client
Inject. Date: 22-Jul-2017 16:22:30 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: NearyM Date: 24-Jul-2017 07:40:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.987	1.990	-0.003	11896229	0.5000	
2	2.193	2.193	0.000	8256822	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.517	0.000	369898	0.0169	
2	2.900	2.903	-0.003	350817	0.0169	
					RPD = 0.54	
9 delta-BHC						
1	3.400	3.417	-0.017	11597	0.001229	
2	4.183	4.180	0.003	1957	0.001165	
					RPD = 5.28	
18 4,4'-DDE						
1	4.807	4.817	-0.010	72010	0.002835	
2	5.727	5.733	-0.006	10263	0.001350	
					RPD = 70.94	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
30 Methoxychlor						
1	6.243	6.233	0.010	18217	0.001774	
2	7.363	7.350	0.013	4005	0.002151	
					RPD = 19.22	
$ 34 DCB Decachlorobiphenyl						
1	7.777	7.780	-0.003	497189	0.0204	
2	8.837	8.843	-0.006	309609	0.0233	
					RPD = 13.45	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

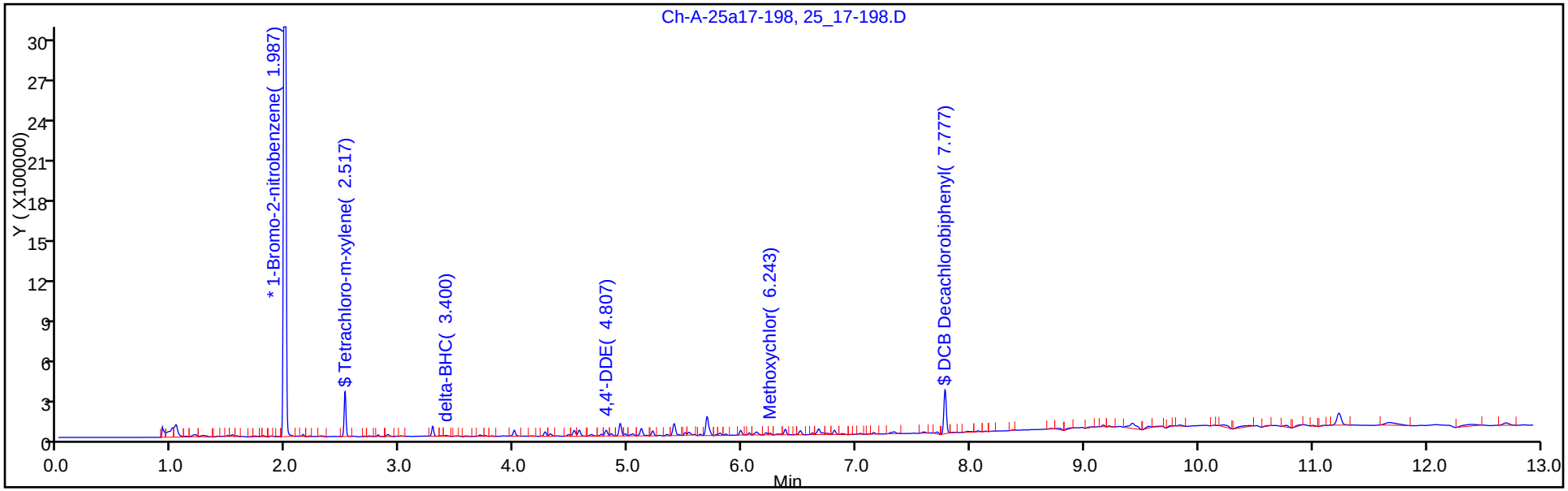
Report Date: 24-Jul-2017 07:46:56 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

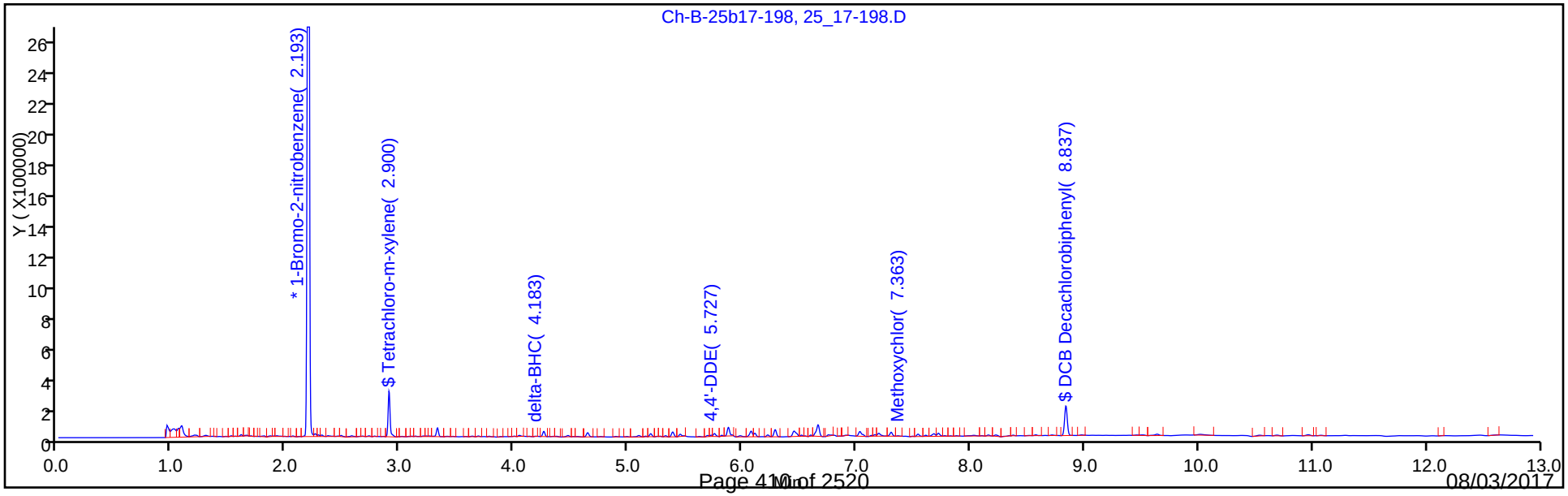
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-198.D

Injection Date:	22-Jul-2017 16:22:30	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-4-A	Lab Sample ID:	480-121411-4	Worklist Smp#:	26
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30349

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0441	0.0439	0.0441	0.0547	0.0515	Lin1	-0.001	0.0520							0.9950		0.9900
Toxaphene Peak 2	0.0547	0.0591	0.0649	0.0773	0.0715	Lin1	-0.001	0.0735							0.9960		0.9900
Toxaphene Peak 3	0.0301	0.0299	0.0341	0.0418	0.0374	Lin1	-0.001	0.0389							0.9940		0.9900
Toxaphene Peak 4	0.0326	0.0311	0.0351	0.0432	0.0410	Lin1	-0.001	0.0414							0.9950		0.9900
Toxaphene Peak 5	0.0307	0.0306	0.0444	0.0397	0.0365	Lin1	0	0.0391							0.9920		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30349

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Lin1	62848	124125	631428	1464656	2165815	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 2	BNB	Lin1	77888	167303	928600	2071485	3007432	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 3	BNB	Lin1	42823	84509	487478	1120183	1573764	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 4	BNB	Lin1	46515	88103	502091	1157723	1722613	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 5	BNB	Lin1	43710	86718	635060	1064328	1532368	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Apr-2017 14:18:52 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:24 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 13-Apr-2017 14:39:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.043	-0.003	14013213	0.5000	0.5000	
2	2.257	2.260	-0.003	9972056	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.683	5.680	0.003	2165815	1.50	1.50	
1	5.807	5.803	0.004	3007432	1.50	1.48	
1	6.037	6.033	0.004	1573764	1.50	1.46	
1	6.373	6.370	0.003	1722613	1.50	1.50	
1	6.470	6.460	0.010	1532368	1.50	1.41	
		Average of Peak Amounts =				1.47	
2	6.013	6.013	0.000	641482	1.50	1.52	M
2	6.567	6.567	0.000	910515	1.50	1.53	M
2	6.667	6.663	0.004	1742088	1.50	1.50	M
2	6.930	6.930	0.000	1061454	1.50	1.50	M
2	7.463	7.460	0.003	883465	1.50	1.50	M
		Average of Peak Amounts =				1.51	
						RPD = 2.94	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.5ng_00011	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

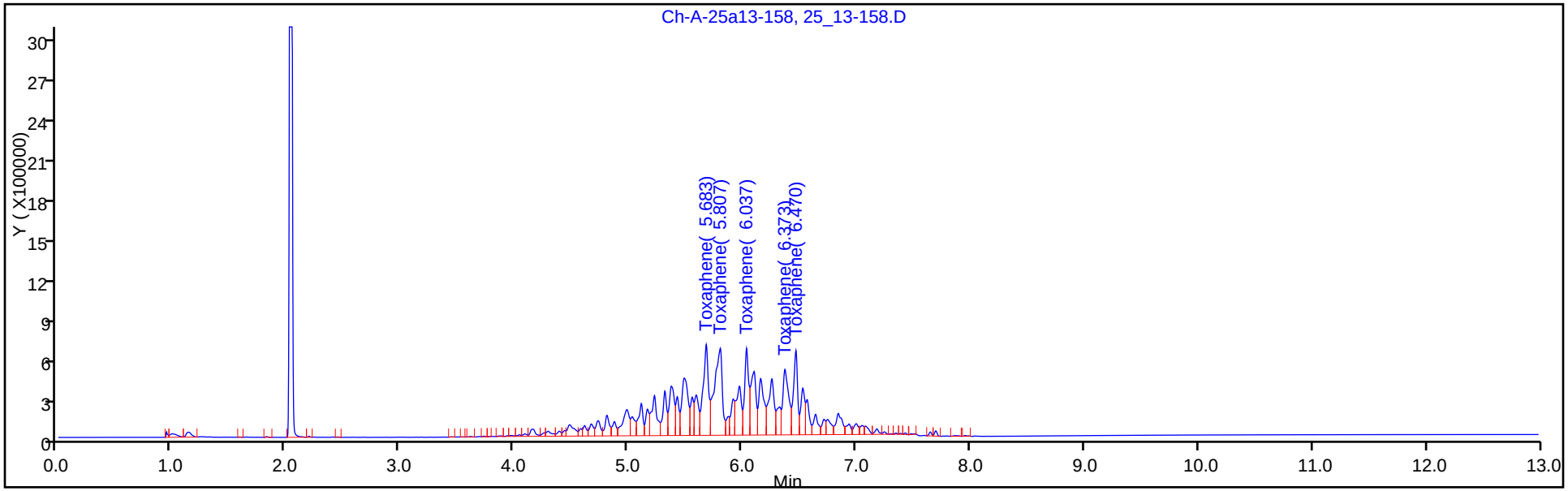
Report Date: 17-Apr-2017 13:19:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

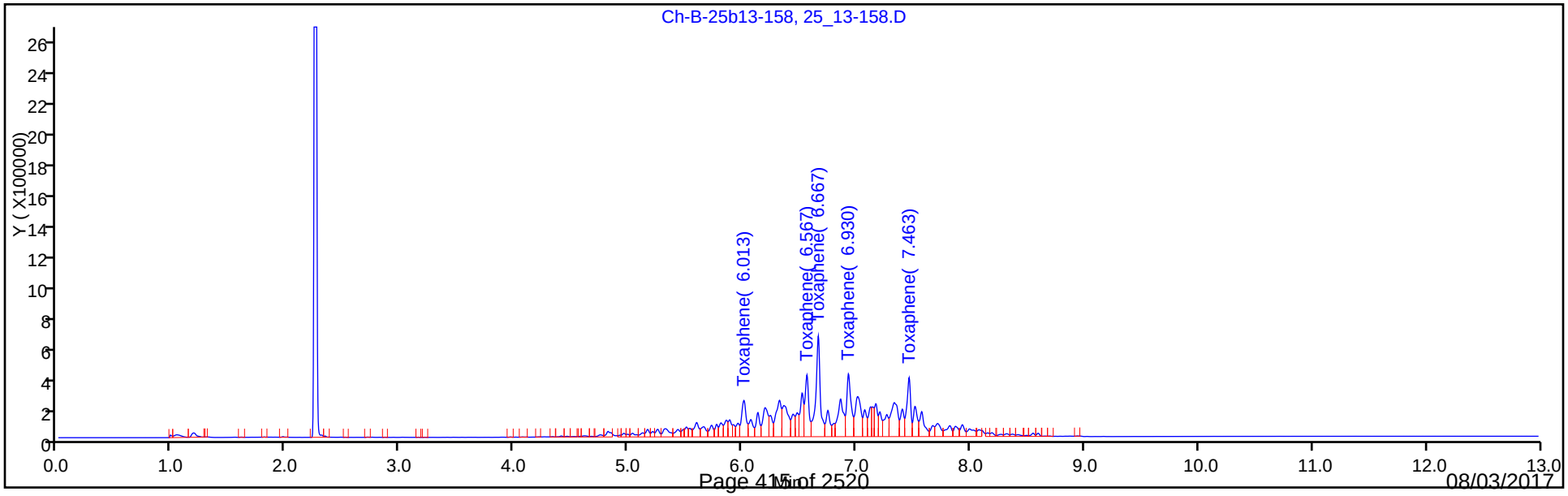
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D

Injection Date:	13-Apr-2017 14:18:52	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Apr-2017 14:38:26 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:27 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 17-Apr-2017 07:13:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.037	2.043	-0.006	13396042	0.5000	0.5000	
2	2.253	2.260	-0.007	9516501	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	1464656	1.00	1.06	M
1	5.803	5.803	0.000	2071485	1.00	1.07	M
1	6.033	6.033	0.000	1120183	1.00	1.09	M
1	6.370	6.370	0.000	1157723	1.00	1.06	M
1	6.467	6.460	0.007	1064328	1.00	1.03	M
		Average of Peak Amounts =				1.06	
2	6.013	6.013	0.000	421431	1.00	1.05	M
2	6.563	6.567	-0.004	578537	1.00	1.02	M
2	6.663	6.663	0.000	1149320	1.00	1.04	M
2	6.930	6.930	0.000	699382	1.00	1.04	M
2	7.460	7.460	0.000	582401	1.00	1.04	M
		Average of Peak Amounts =				1.04	
						RPD = 2.04	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.0ng_00010	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

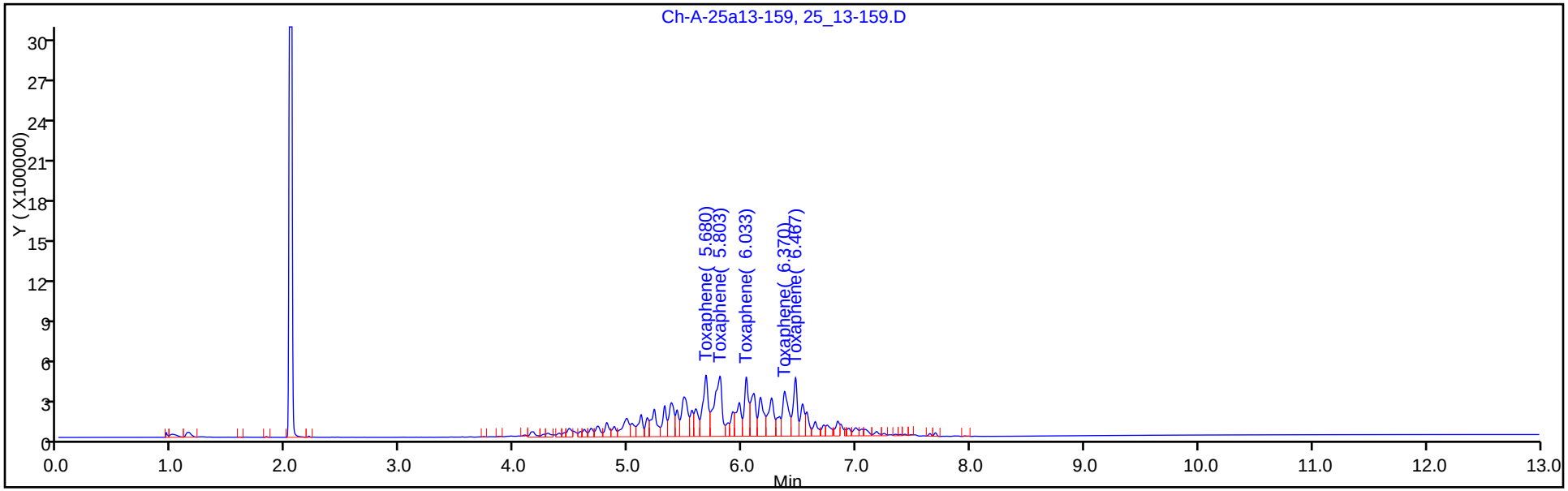
Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

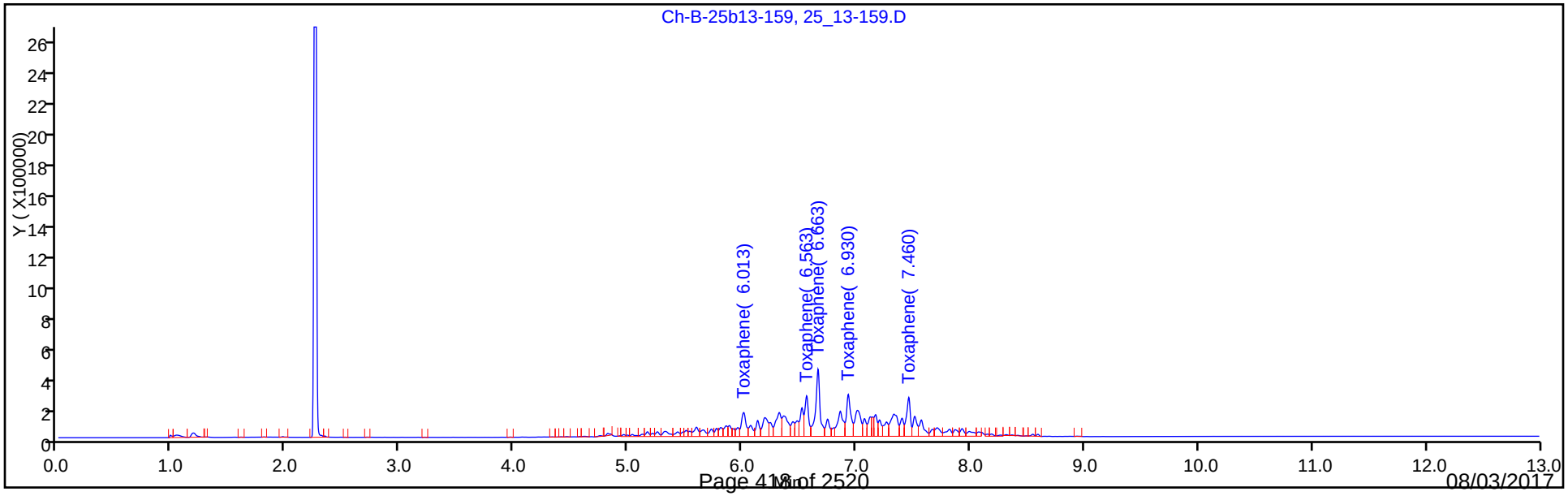
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date:	13-Apr-2017 14:38:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date: 13-Apr-2017 14:38:26 Instrument ID: HP6890-25

Lims ID: std2

Client ID:

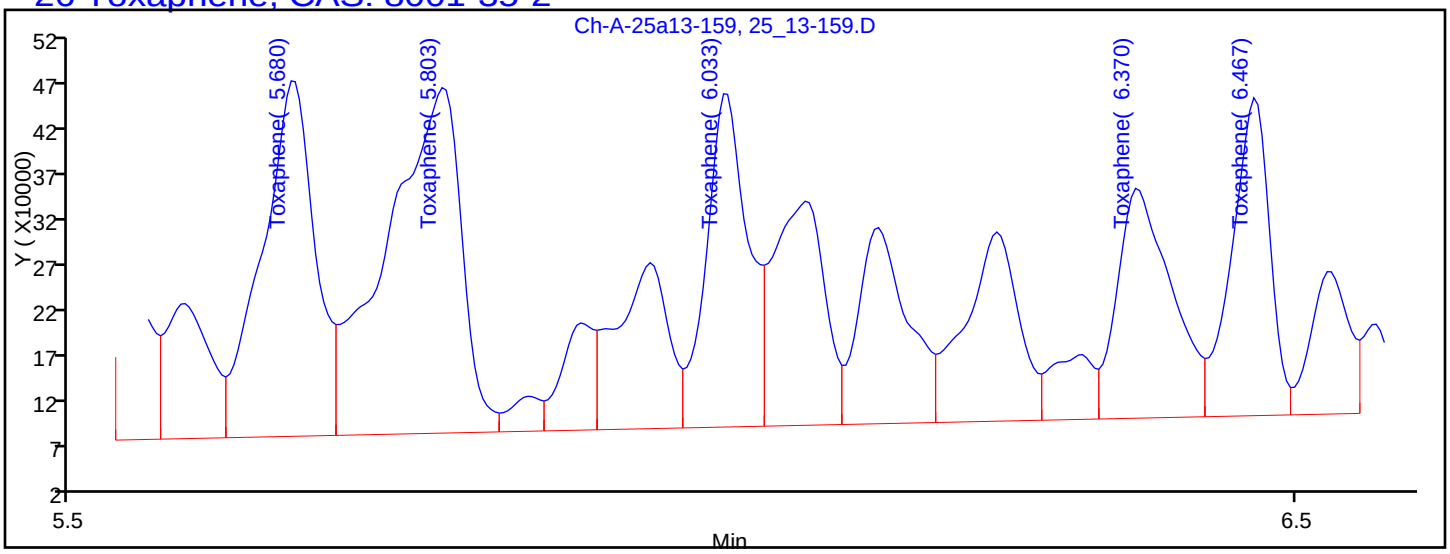
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

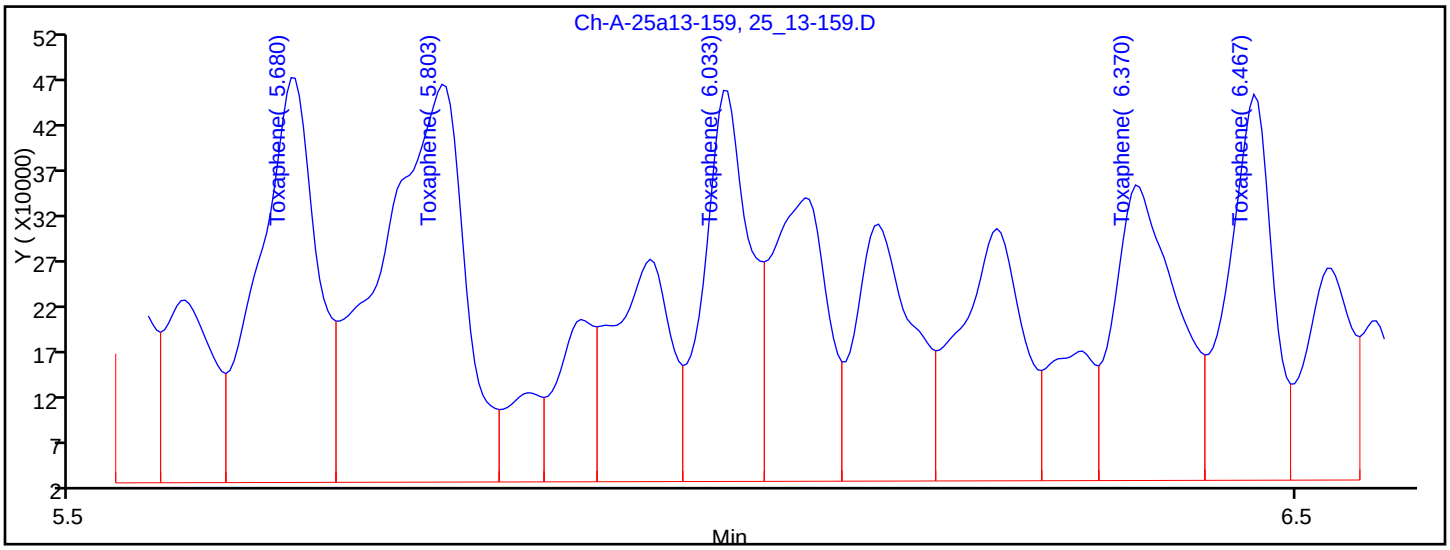
Column: Detector Ch-A-6A58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.680	Response = 1172019
5.803	Response = 1614977
6.033	Response = 866219
6.370	Response = 780770
6.467	Response = 751405



Manual Integration Results

5.680	Response = 1464656	M
5.803	Response = 2071485	M
6.033	Response = 1120183	M
6.370	Response = 1157723	M
6.467	Response = 1064328	M

Reviewer: RudzG, 17-Apr-2017 11:59:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Apr-2017 14:58:10 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:29 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: RudzG Date: 17-Apr-2017 12:00:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.033	2.033	0.000	14315780	0.5000	0.5000	
2	2.253	2.253	0.000	10189120	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	631428	0.5000	0.4365	a
1	5.803	5.803	0.000	928600	0.5000	0.4572	a
1	6.033	6.033	0.000	487478	0.5000	0.4536	a
1	6.370	6.370	0.000	502091	0.5000	0.4405	a
1	6.460	6.460	0.000	635060	0.5000	0.5775	a
		Average of Peak Amounts =				0.4730	
2	6.013	6.013	0.000	180262	0.5000	0.4265	M
2	6.567	6.567	0.000	265822	0.5000	0.4459	M
2	6.663	6.663	0.000	525251	0.5000	0.4530	M
2	6.930	6.930	0.000	325526	0.5000	0.4575	M
2	7.460	7.460	0.000	265983	0.5000	0.4536	M
		Average of Peak Amounts =				0.4473	
						RPD = 5.60	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00098	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

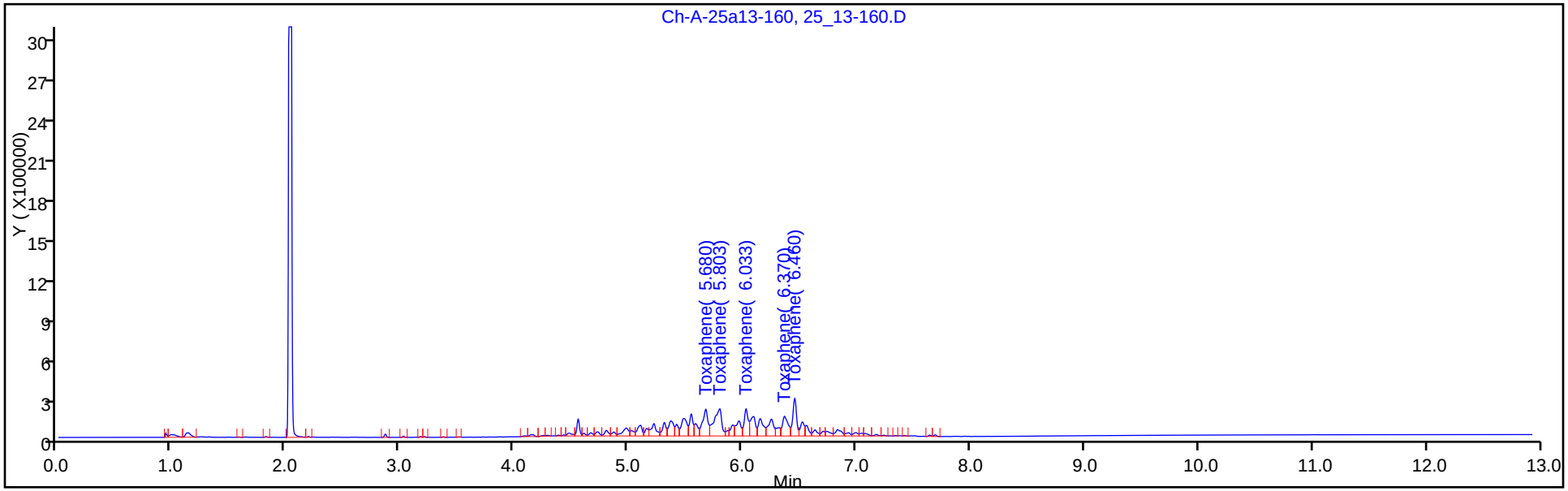
Report Date: 17-Apr-2017 13:19:29 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

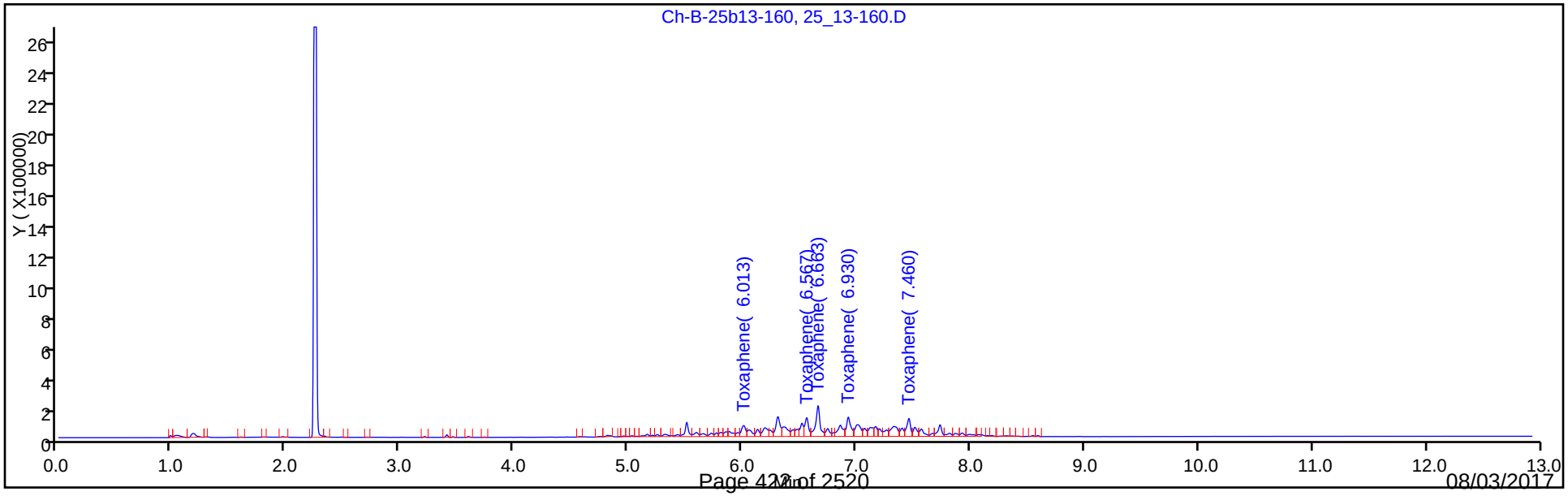
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D

Injection Date:	13-Apr-2017 14:58:10	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 13-Apr-2017 15:17:42 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:31 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:53:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14153249	0.5000	0.5000	
2	2.253	2.253	0.000	10068508	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	124125	0.1000	0.0968	M
1	5.807	5.803	0.004	167303	0.1000	0.0966	M
1	6.037	6.033	0.004	84509	0.1000	0.0931	M
1	6.373	6.370	0.003	88103	0.1000	0.0924	M
1	6.470	6.460	0.010	86718	0.1000	0.0887	M
		Average of Peak Amounts =				0.0935	
2	6.013	6.013	0.000	37153	0.1000	0.0981	M
2	6.567	6.567	0.000	50903	0.1000	0.0963	M
2	6.667	6.663	0.004	96100	0.1000	0.0947	M
2	6.930	6.930	0.000	62310	0.1000	0.0963	M
2	7.463	7.460	0.003	47592	0.1000	0.0943	M
		Average of Peak Amounts =				0.0959	
						RPD = 2.54	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.1ng_00013	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

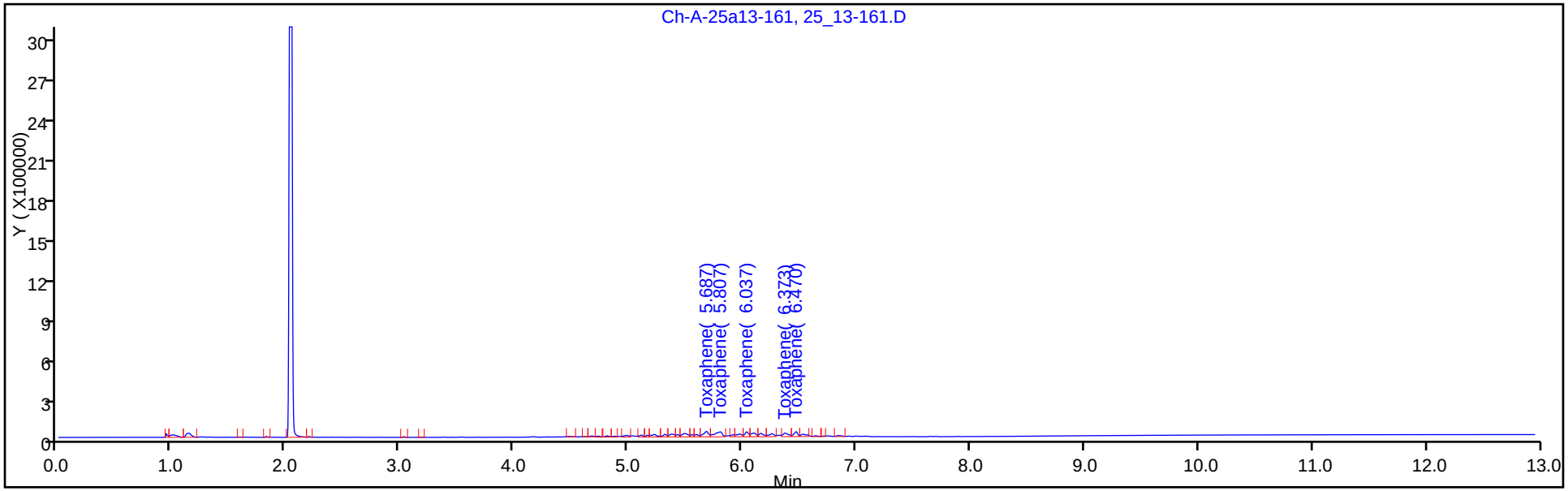
Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

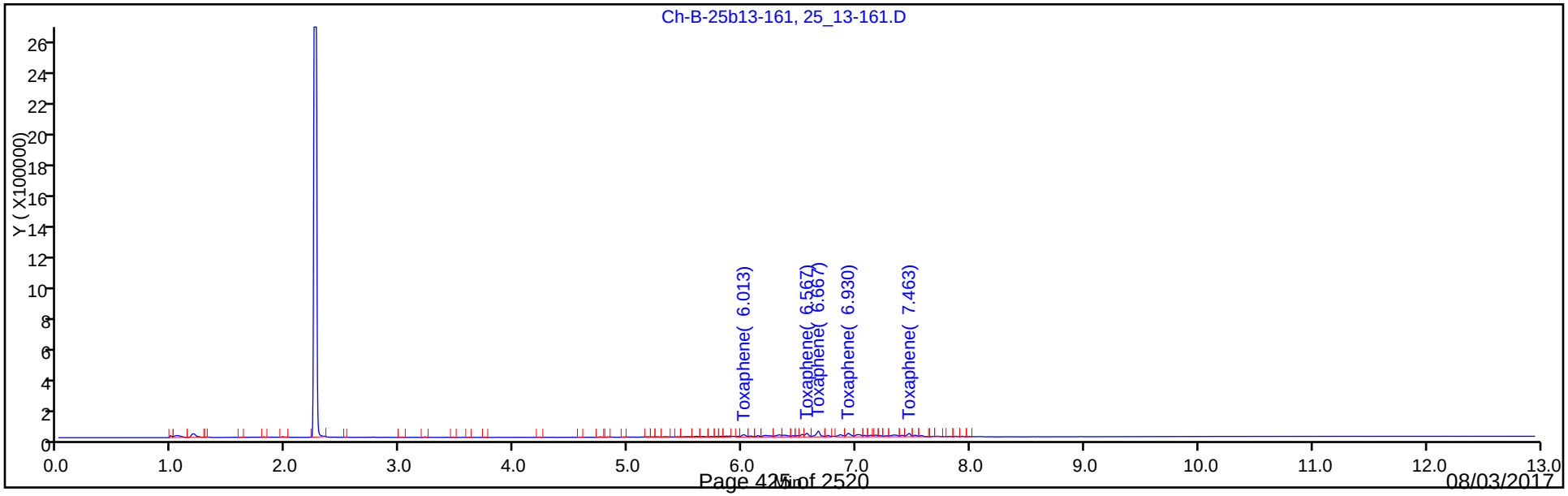
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date:	13-Apr-2017 15:17:42	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date: 13-Apr-2017 15:17:42 Instrument ID: HP6890-25

Lims ID: std4

Client ID:

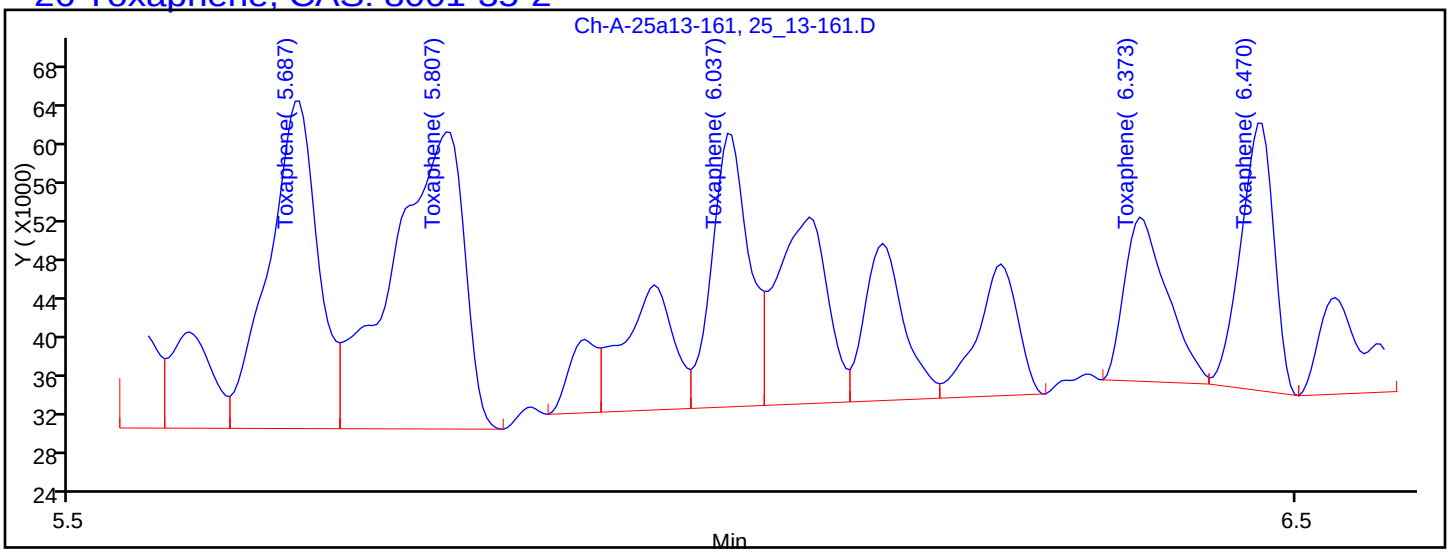
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

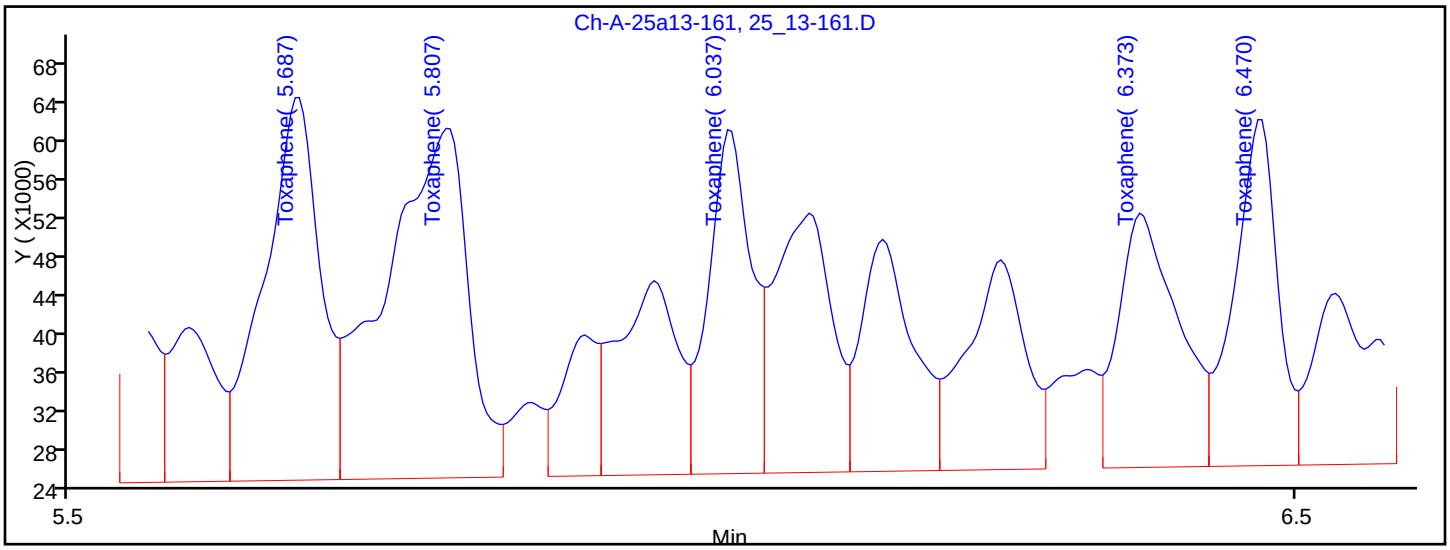
Column: Detector Ch-A-6A58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.687	Response = 93083
5.807	Response = 123347
6.037	Response = 58398
6.373	Response = 40627
6.470	Response = 50757



Manual Integration Results

5.687	Response = 124125	M
5.807	Response = 167303	M
6.037	Response = 84509	M
6.373	Response = 88103	M
6.470	Response = 86718	M

Reviewer: RudzG, 17-Apr-2017 12:07:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Apr-2017 15:37:24 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:34 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:09:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14249738	0.5000	0.5000	
2	2.257	2.253	0.004	10161889	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	62848	0.0500	0.0548	M
1	5.813	5.803	0.010	77888	0.0500	0.0534	M
1	6.040	6.033	0.007	42823	0.0500	0.0550	M
1	6.377	6.370	0.007	46515	0.0500	0.0567	M
1	6.473	6.460	0.013	43710	0.0500	0.0496	M
		Average of Peak Amounts =				0.0539	
2	6.017	6.013	0.004	18892	0.0500	0.0551	M
2	6.570	6.567	0.003	26211	0.0500	0.0551	M
2	6.670	6.663	0.007	49816	0.0500	0.0551	M
2	6.933	6.930	0.003	32225	0.0500	0.0540	M
2	7.467	7.460	0.007	24368	0.0500	0.0552	M
		Average of Peak Amounts =				0.0549	
						RPD = 1.81	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.05ng_00012	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

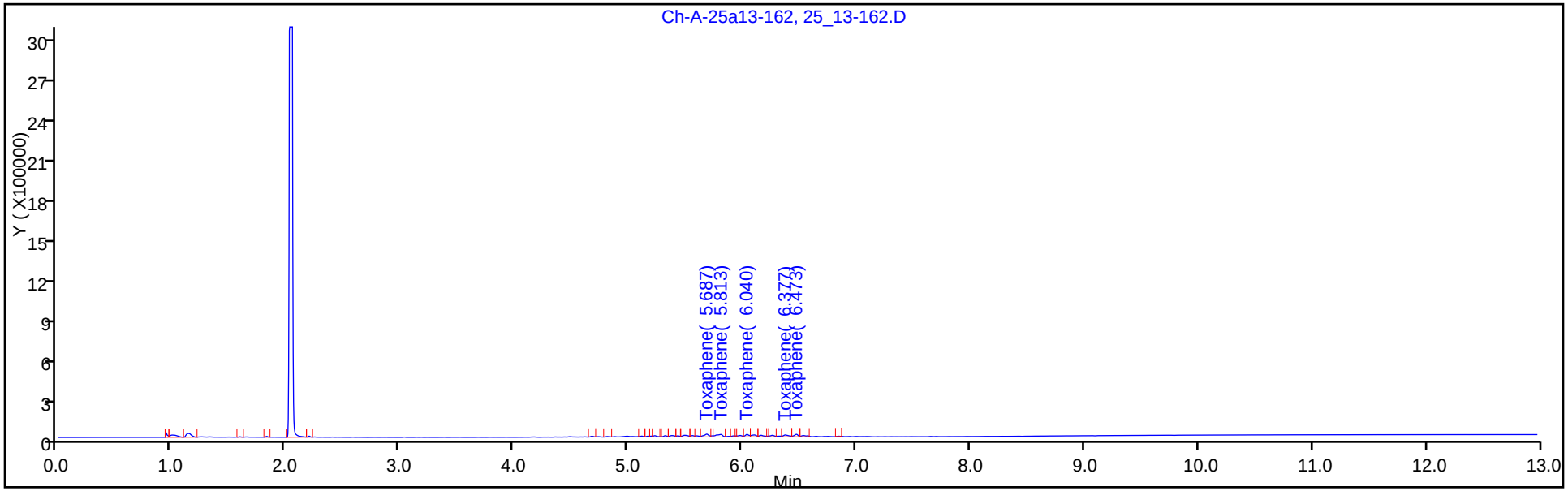
Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

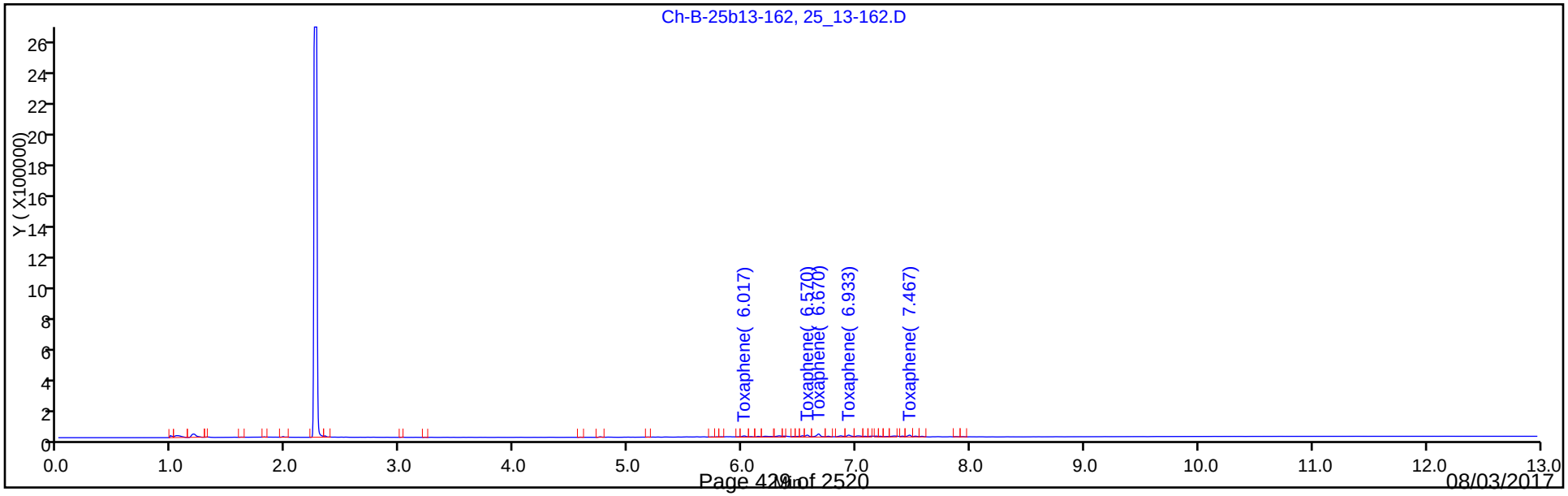
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date:	13-Apr-2017 15:37:24	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date: 13-Apr-2017 15:37:24 Instrument ID: HP6890-25

Lims ID: std5

Client ID:

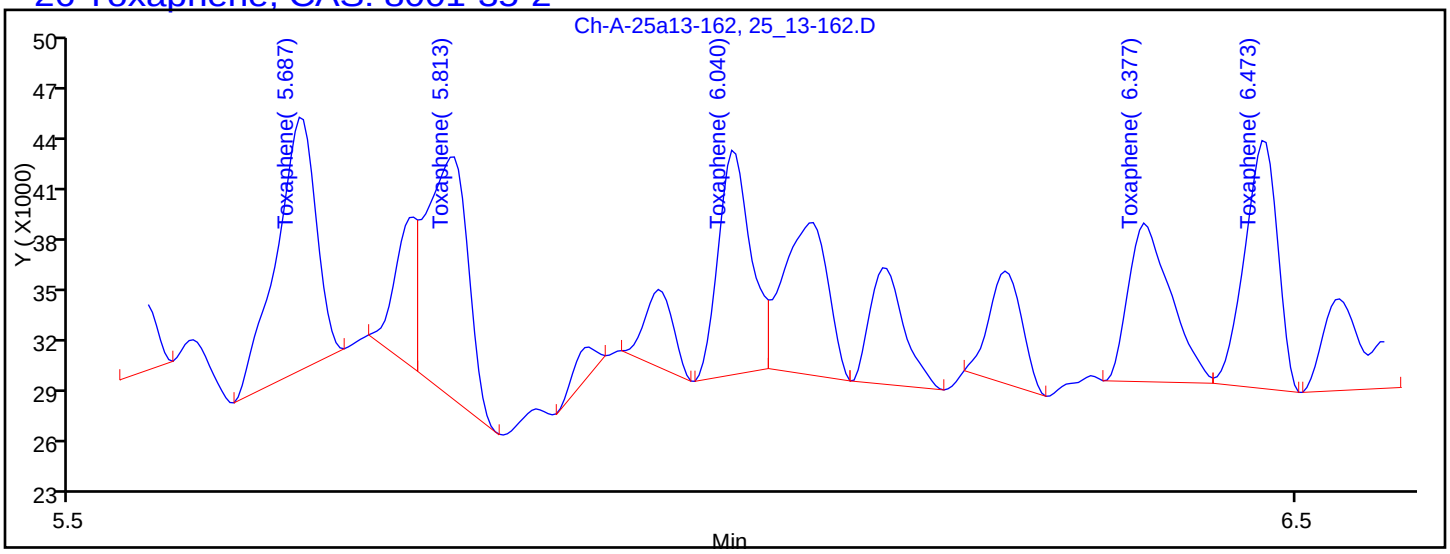
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

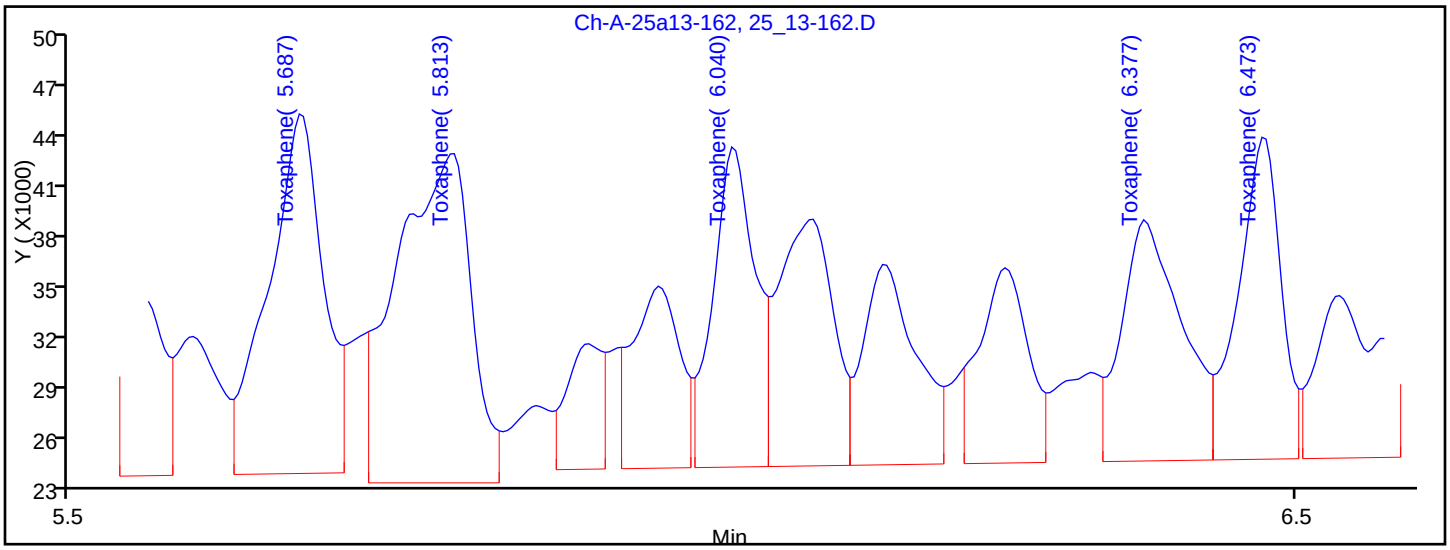
Column: Detector Ch-A-6A58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.687	Response = 32201
5.813	Response = 31335
6.040	Response = 23538
6.377	Response = 21646
6.473	Response = 26075



Manual Integration Results

5.687	Response = 62848	M
5.813	Response = 77888	M
6.040	Response = 42823	M
6.377	Response = 46515	M
6.473	Response = 43710	M

Reviewer: RudzG, 17-Apr-2017 12:07:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30350

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0186	0.0185	0.0177	0.0221	0.0214	Lin1	0	0.0213							0.9940		0.9900
Toxaphene Peak 2	0.0258	0.0253	0.0261	0.0304	0.0304	Lin1	0	0.0301							0.9970		0.9900
Toxaphene Peak 3	0.0490	0.0477	0.0516	0.0604	0.0582	Lin1	-0.001	0.0586							0.9970		0.9900
Toxaphene Peak 4	0.0317	0.0309	0.0319	0.0367	0.0355	Lin1	0	0.0357							0.9980		0.9900
Toxaphene Peak 5	0.0240	0.0236	0.0261	0.0306	0.0295	Lin1	0	0.0298							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30350

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Lin1	18892	37153	180262	421431	641482	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 2	BNB	Lin1	26211	50903	265822	578537	910515	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 3	BNB	Lin1	49816	96100	525251	1149320	1742088	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 4	BNB	Lin1	32225	62310	325526	699382	1061454	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 5	BNB	Lin1	24368	47592	265983	582401	883465	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Apr-2017 14:18:52 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:24 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 13-Apr-2017 14:39:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.043	-0.003	14013213	0.5000	0.5000	
2	2.257	2.260	-0.003	9972056	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.683	5.680	0.003	2165815	1.50	1.50	
1	5.807	5.803	0.004	3007432	1.50	1.48	
1	6.037	6.033	0.004	1573764	1.50	1.46	
1	6.373	6.370	0.003	1722613	1.50	1.50	
1	6.470	6.460	0.010	1532368	1.50	1.41	
		Average of Peak Amounts =				1.47	
2	6.013	6.013	0.000	641482	1.50	1.52	M
2	6.567	6.567	0.000	910515	1.50	1.53	M
2	6.667	6.663	0.004	1742088	1.50	1.50	M
2	6.930	6.930	0.000	1061454	1.50	1.50	M
2	7.463	7.460	0.003	883465	1.50	1.50	M
		Average of Peak Amounts =				1.51	
						RPD = 2.94	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.5ng_00011	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

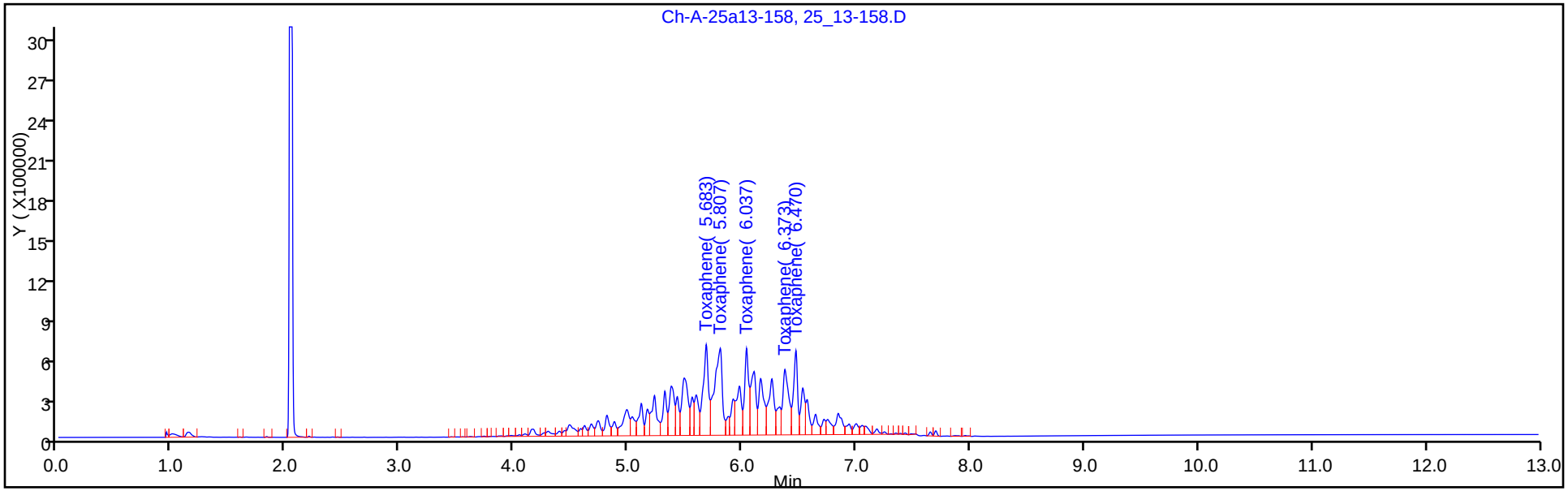
Report Date: 17-Apr-2017 13:19:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

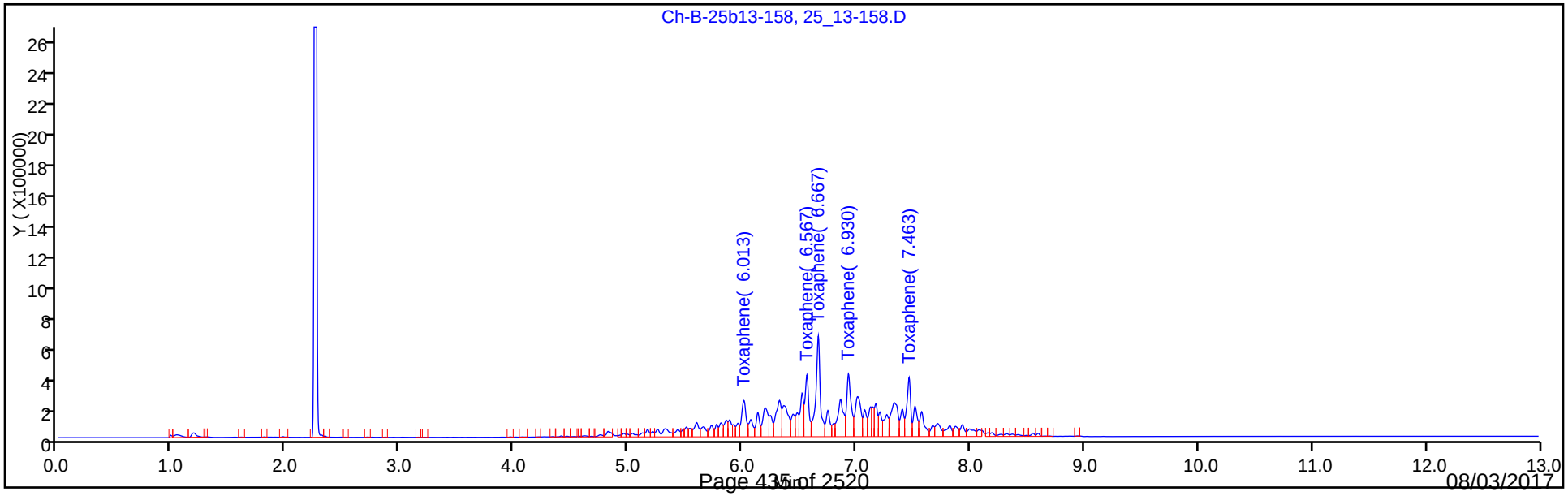
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D

Injection Date:	13-Apr-2017 14:18:52	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D

Injection Date: 13-Apr-2017 14:18:52 Instrument ID: HP6890-25

Lims ID: std1

Client ID:

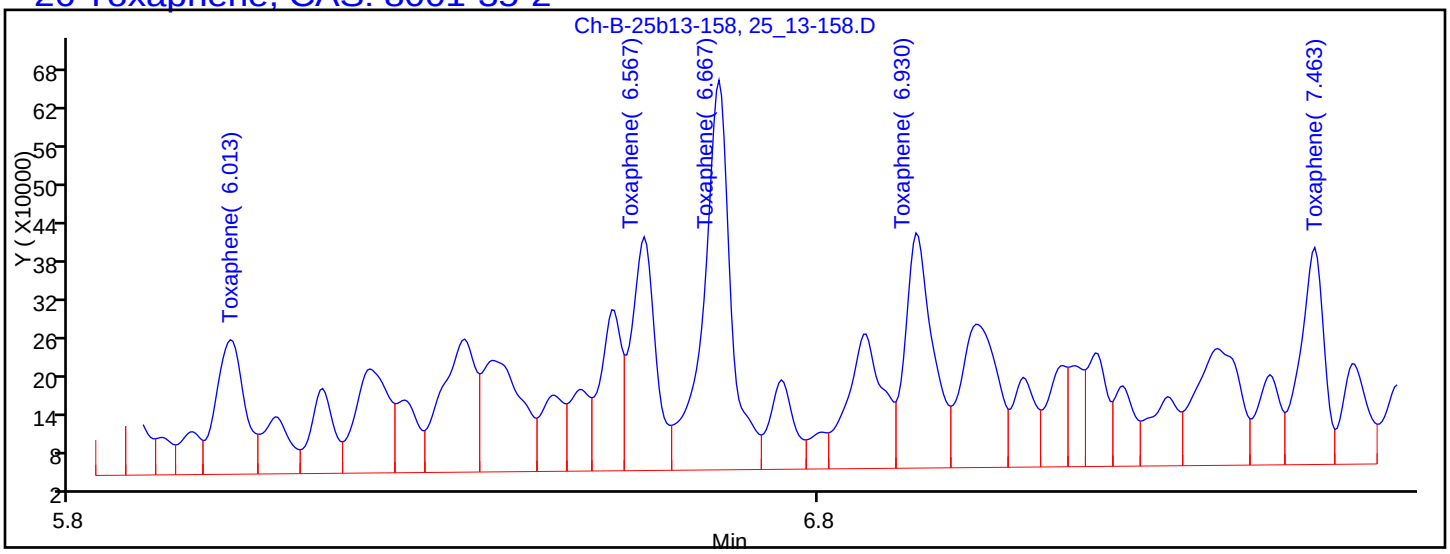
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

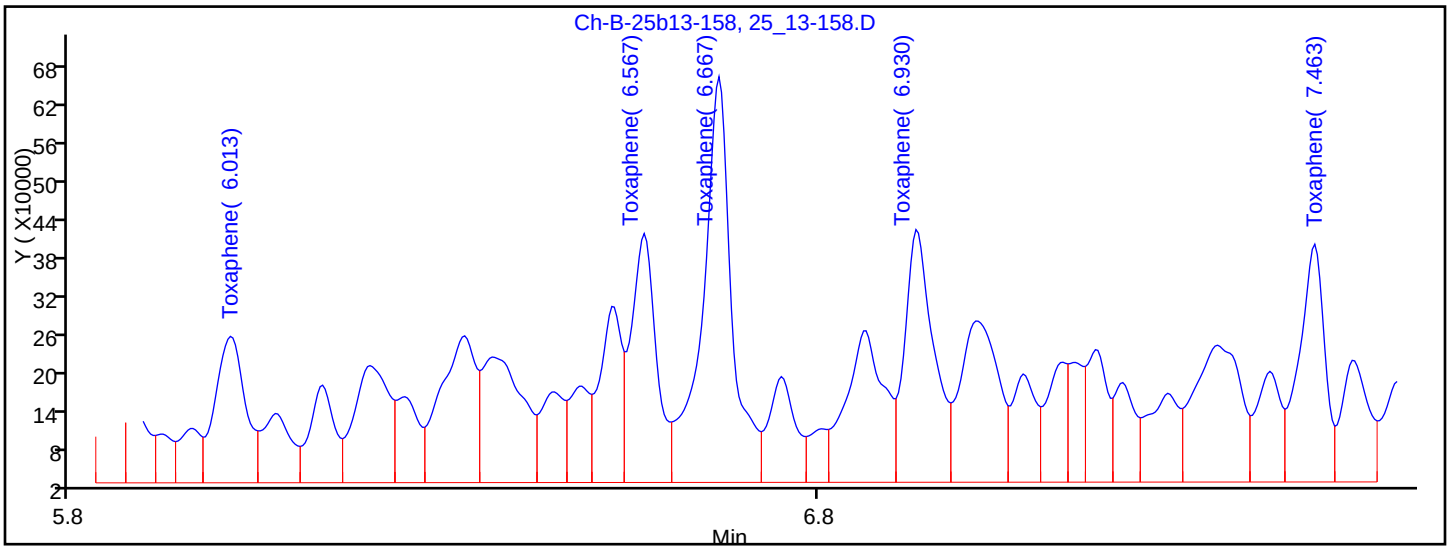
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.013	Response = 559970
6.567	Response = 819721
6.667	Response = 1563712
6.930	Response = 940747
7.463	Response = 753866



Manual Integration Results

6.013	Response = 641482	M
6.567	Response = 910515	M
6.667	Response = 1742088	M
6.930	Response = 1061454	M
7.463	Response = 883465	M

Reviewer: RudzG, 17-Apr-2017 11:59:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Apr-2017 14:38:26 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:27 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 17-Apr-2017 07:13:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.037	2.043	-0.006	13396042	0.5000	0.5000	
2	2.253	2.260	-0.007	9516501	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	1464656	1.00	1.06	M
1	5.803	5.803	0.000	2071485	1.00	1.07	M
1	6.033	6.033	0.000	1120183	1.00	1.09	M
1	6.370	6.370	0.000	1157723	1.00	1.06	M
1	6.467	6.460	0.007	1064328	1.00	1.03	M
		Average of Peak Amounts =				1.06	
2	6.013	6.013	0.000	421431	1.00	1.05	M
2	6.563	6.567	-0.004	578537	1.00	1.02	M
2	6.663	6.663	0.000	1149320	1.00	1.04	M
2	6.930	6.930	0.000	699382	1.00	1.04	M
2	7.460	7.460	0.000	582401	1.00	1.04	M
		Average of Peak Amounts =				1.04	
						RPD = 2.04	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.0ng_00010	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

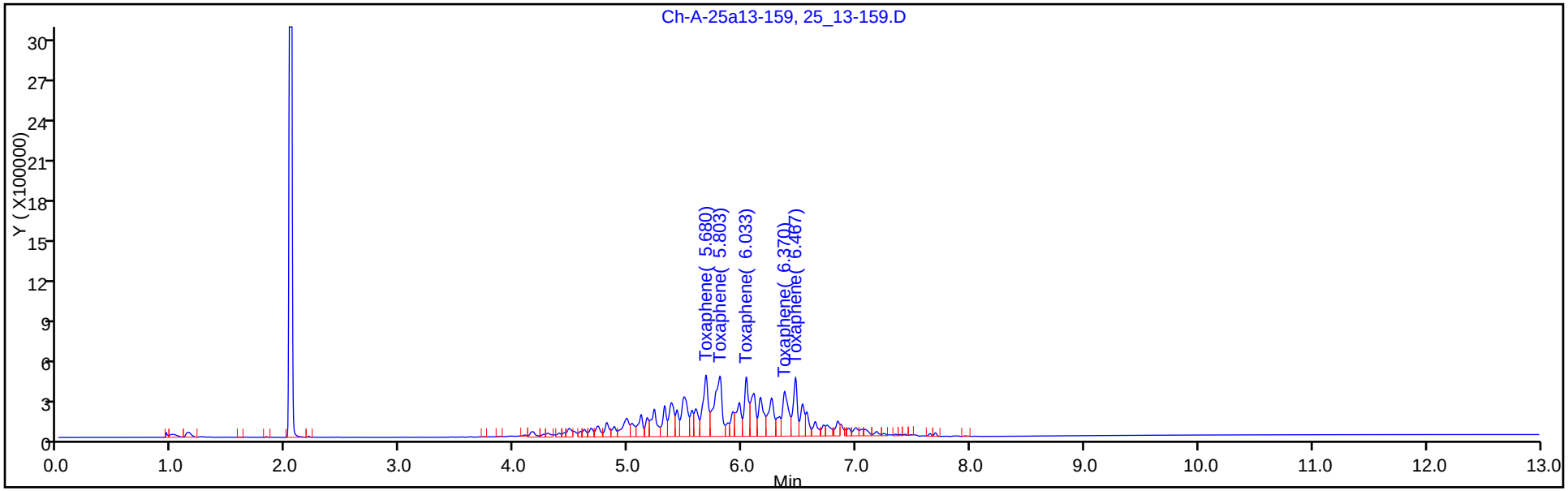
Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

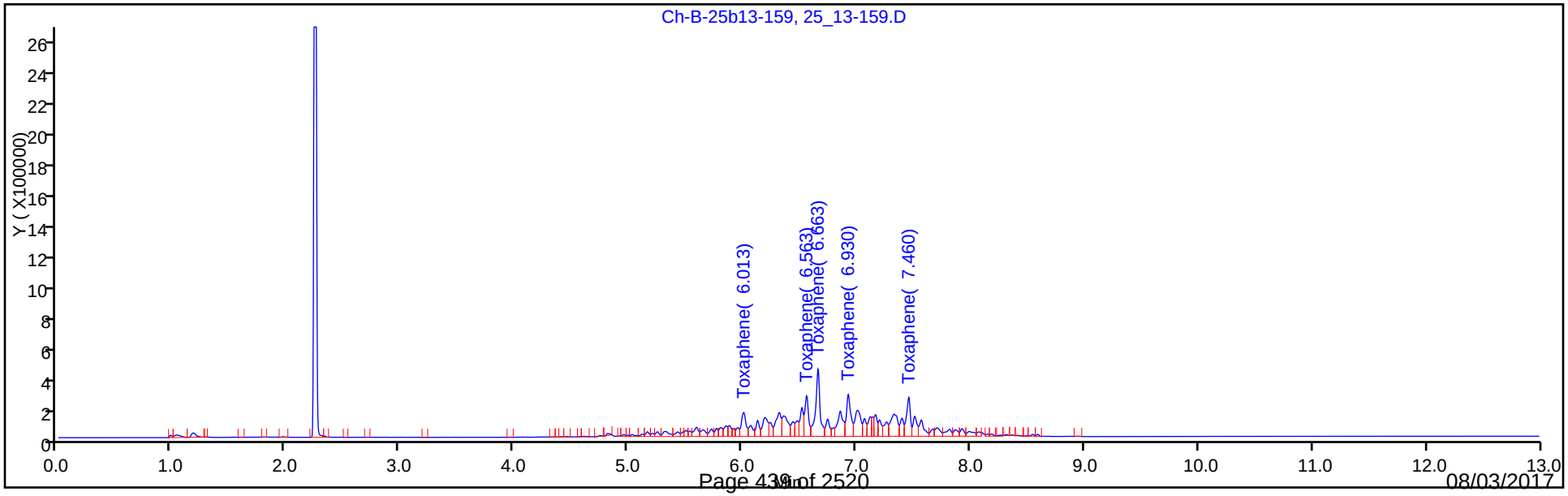
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date:	13-Apr-2017 14:38:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date: 13-Apr-2017 14:38:26 Instrument ID: HP6890-25

Lims ID: std2

Client ID:

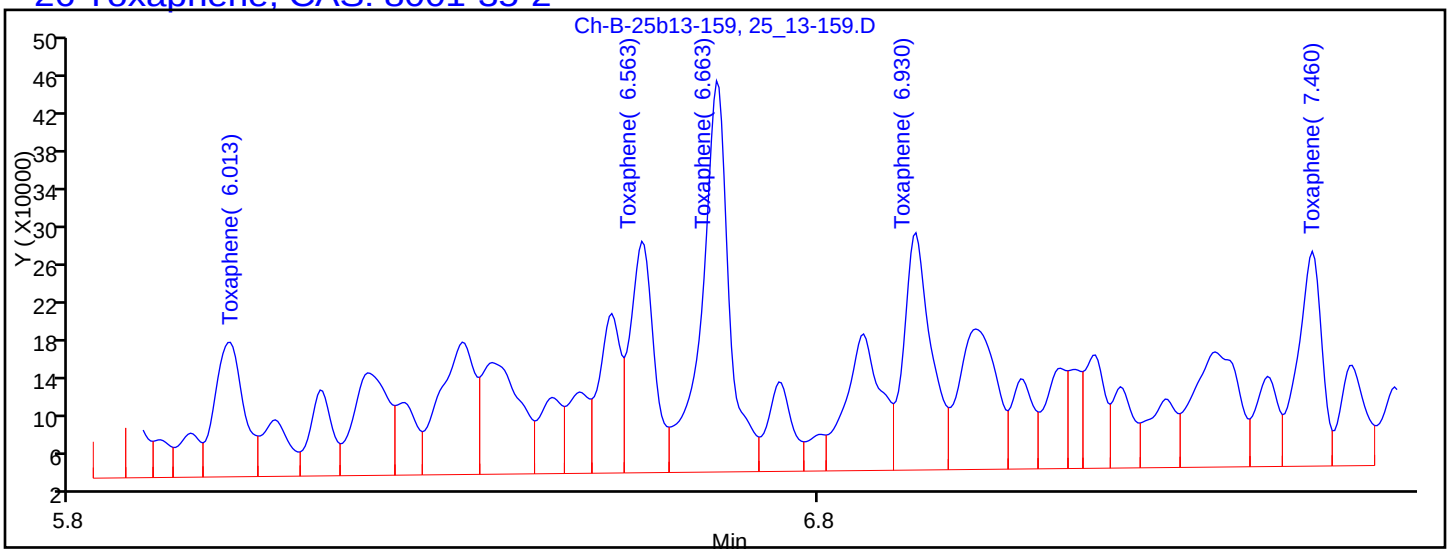
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

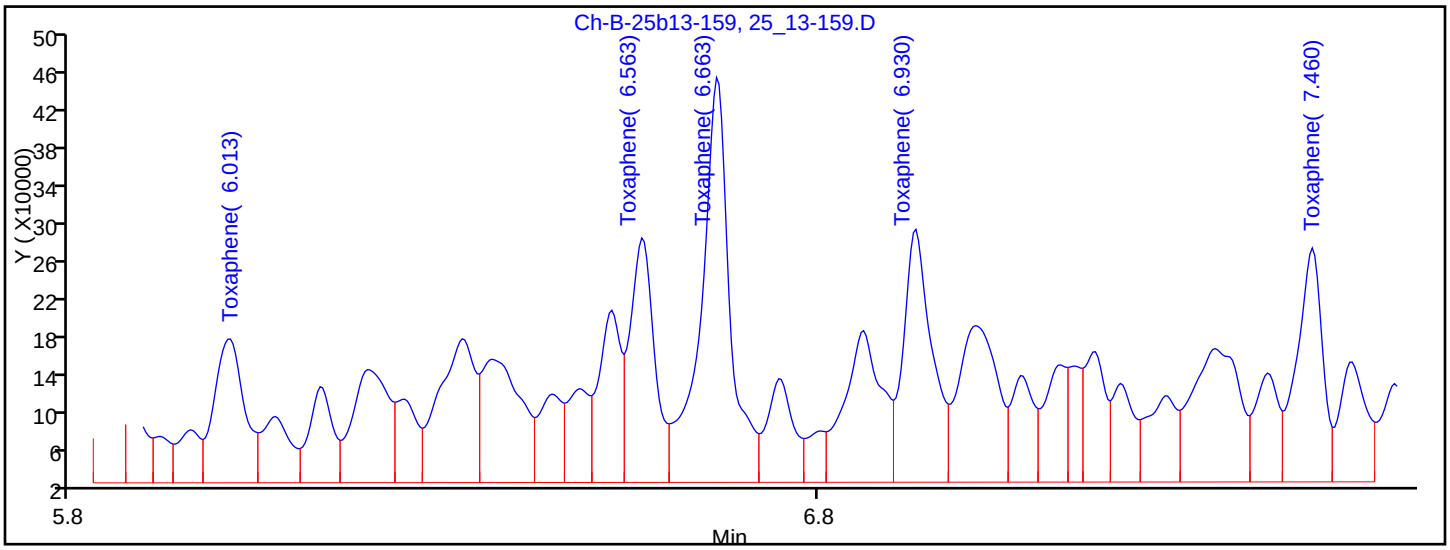
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.013	Response = 378704
6.563	Response = 529408
6.663	Response = 1046479
6.930	Response = 627928
7.460	Response = 502829



Manual Integration Results

6.013	Response = 421431	M
6.563	Response = 578537	M
6.663	Response = 1149320	M
6.930	Response = 699382	M
7.460	Response = 582401	M

Reviewer: RudzG, 17-Apr-2017 11:59:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Apr-2017 14:58:10 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:29 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: RudzG Date: 17-Apr-2017 12:00:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.033	2.033	0.000	14315780	0.5000	0.5000	
2	2.253	2.253	0.000	10189120	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	631428	0.5000	0.4365	a
1	5.803	5.803	0.000	928600	0.5000	0.4572	a
1	6.033	6.033	0.000	487478	0.5000	0.4536	a
1	6.370	6.370	0.000	502091	0.5000	0.4405	a
1	6.460	6.460	0.000	635060	0.5000	0.5775	a
		Average of Peak Amounts =				0.4730	
2	6.013	6.013	0.000	180262	0.5000	0.4265	M
2	6.567	6.567	0.000	265822	0.5000	0.4459	M
2	6.663	6.663	0.000	525251	0.5000	0.4530	M
2	6.930	6.930	0.000	325526	0.5000	0.4575	M
2	7.460	7.460	0.000	265983	0.5000	0.4536	M
		Average of Peak Amounts =				0.4473	
						RPD = 5.60	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00098	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

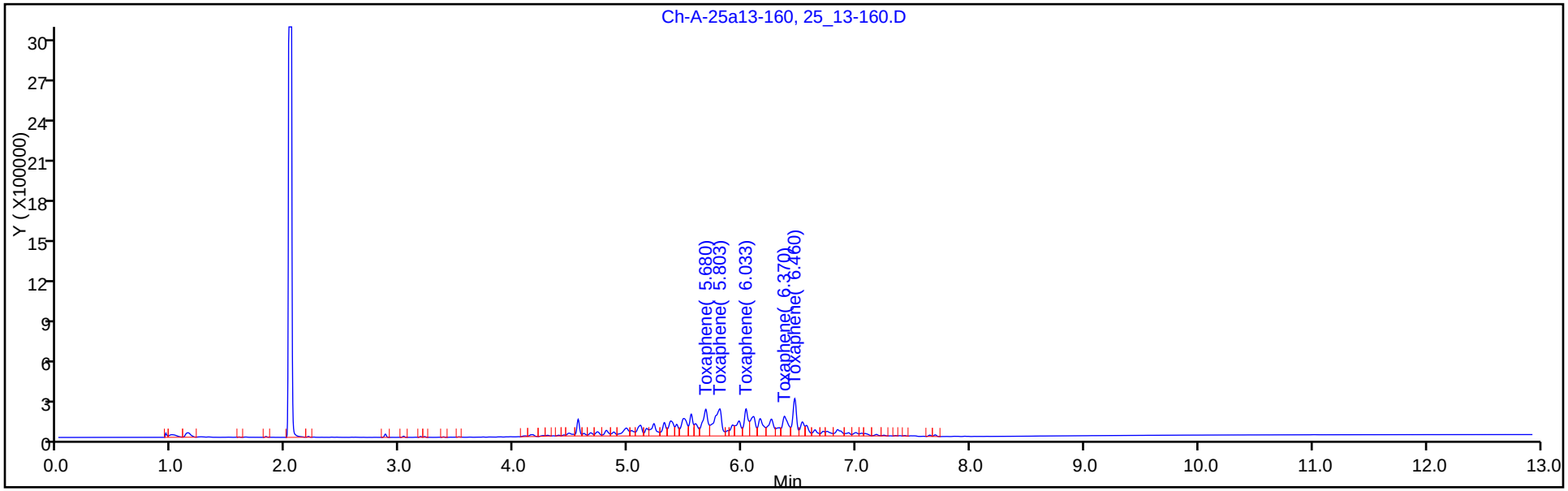
Report Date: 17-Apr-2017 13:19:30 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

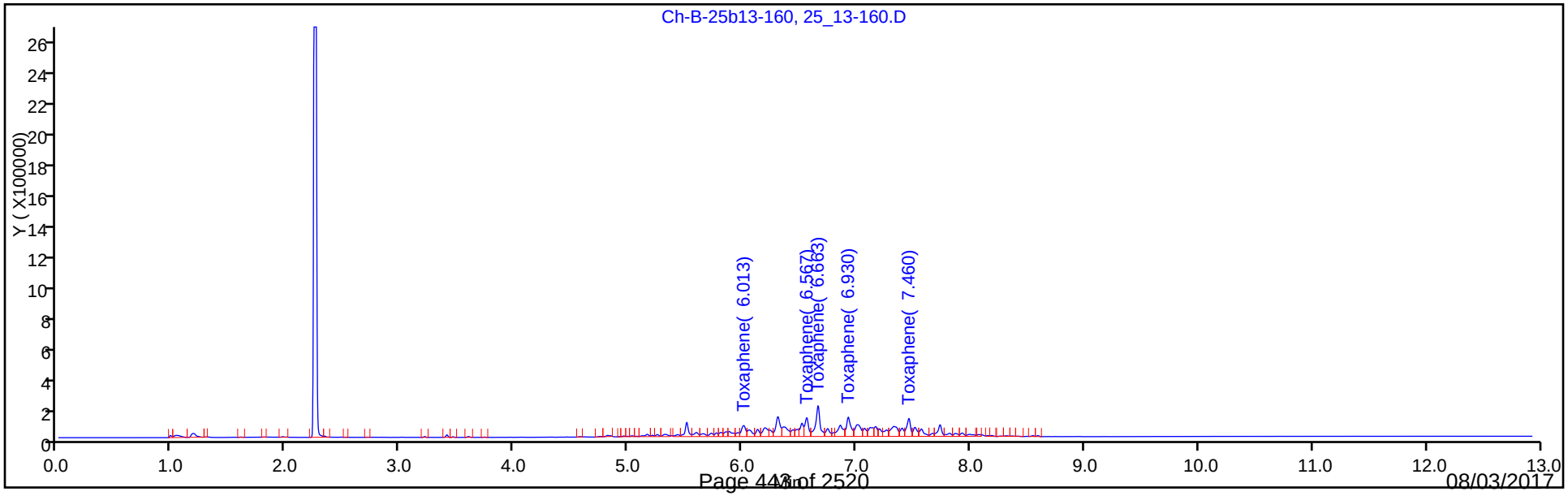
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D

Injection Date:	13-Apr-2017 14:58:10	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:30 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D

Injection Date: 13-Apr-2017 14:58:10 Instrument ID: HP6890-25

Lims ID: std3

Client ID:

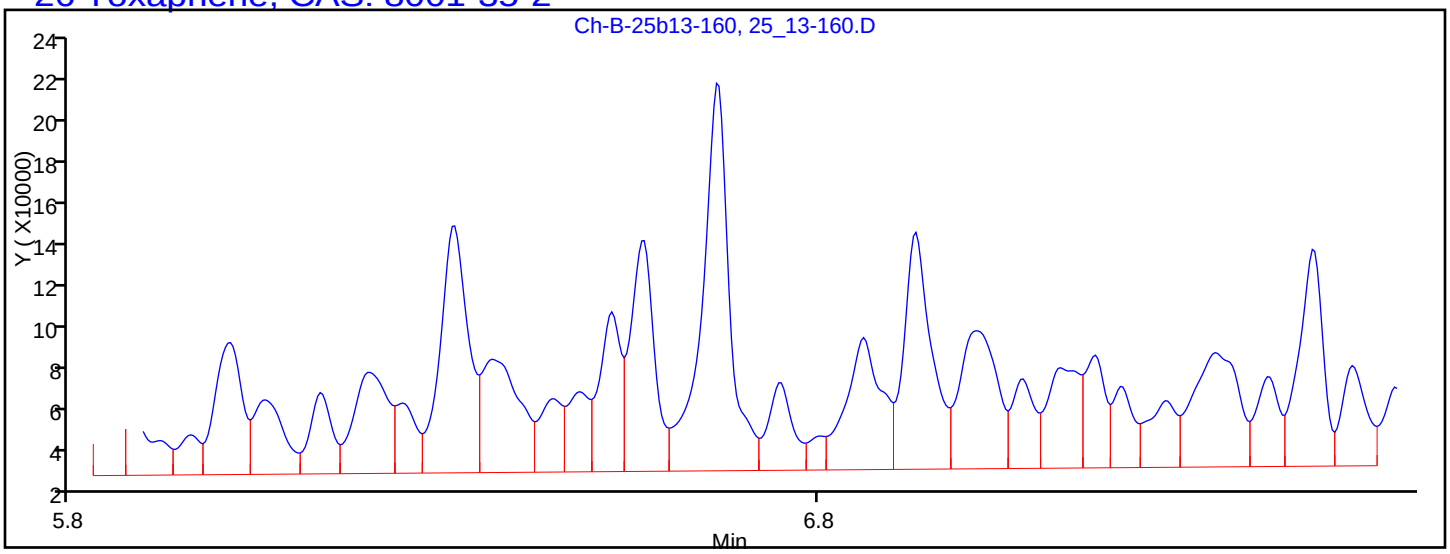
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

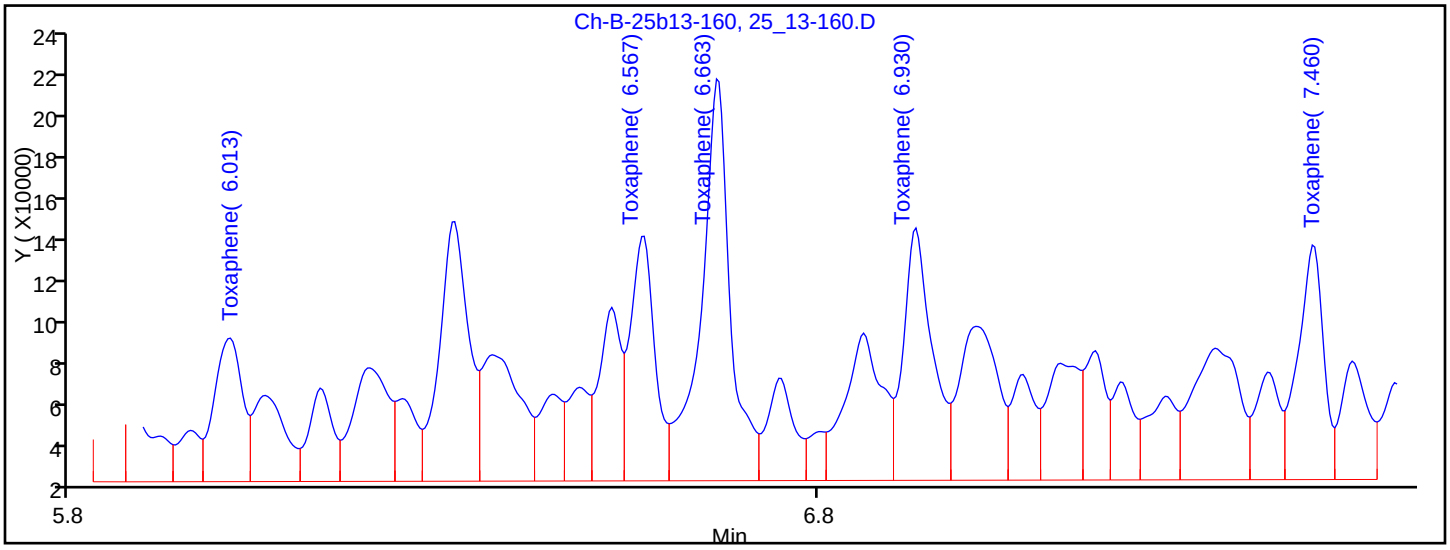
Method: IS-8081 Limit Group: GC - 8081B IS ICAL

Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results



Manual Integration Results

6.013	Response = 180262	M
6.567	Response = 265822	M
6.663	Response = 525251	M
6.930	Response = 325526	M
7.460	Response = 265983	M

Reviewer: RudzG, 17-Apr-2017 12:07:02

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 13-Apr-2017 15:17:42 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:31 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:53:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14153249	0.5000	0.5000	
2	2.253	2.253	0.000	10068508	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	124125	0.1000	0.0968	M
1	5.807	5.803	0.004	167303	0.1000	0.0966	M
1	6.037	6.033	0.004	84509	0.1000	0.0931	M
1	6.373	6.370	0.003	88103	0.1000	0.0924	M
1	6.470	6.460	0.010	86718	0.1000	0.0887	M
		Average of Peak Amounts =				0.0935	
2	6.013	6.013	0.000	37153	0.1000	0.0981	M
2	6.567	6.567	0.000	50903	0.1000	0.0963	M
2	6.667	6.663	0.004	96100	0.1000	0.0947	M
2	6.930	6.930	0.000	62310	0.1000	0.0963	M
2	7.463	7.460	0.003	47592	0.1000	0.0943	M
		Average of Peak Amounts =				0.0959	
						RPD = 2.54	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.1ng_00013	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

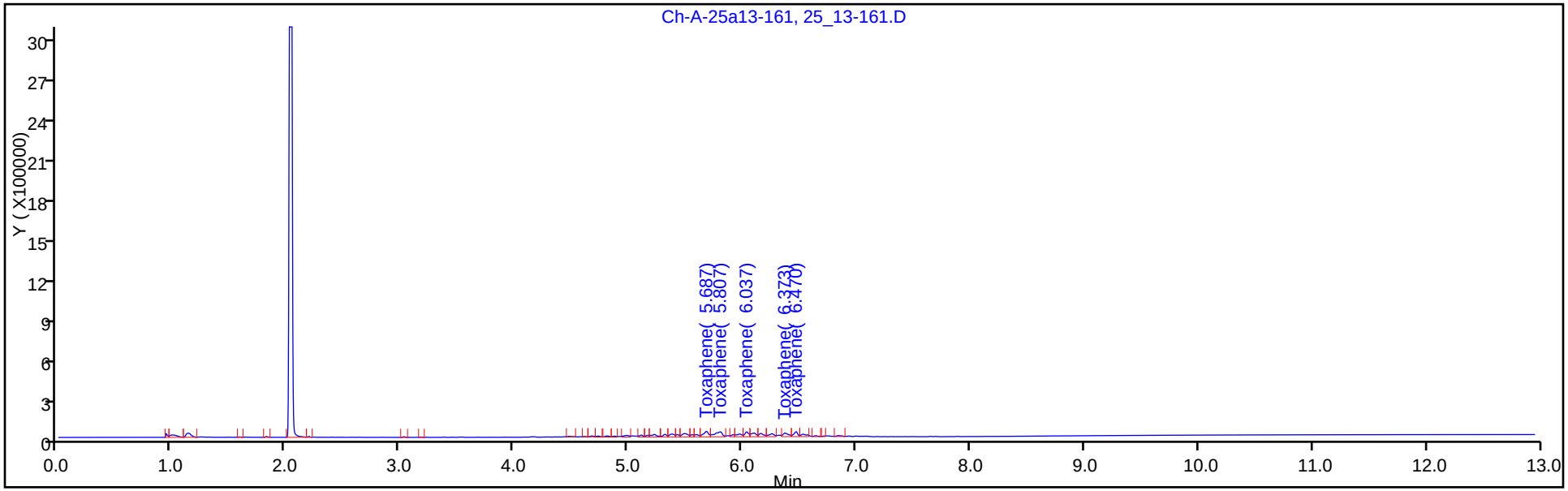
Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

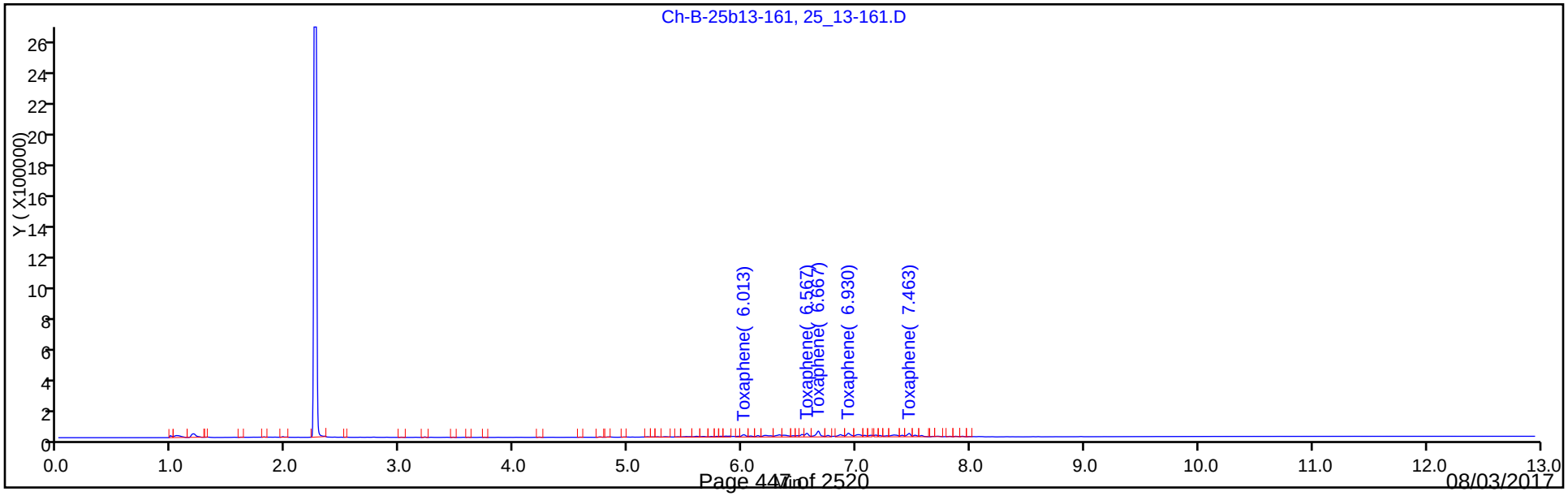
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date:	13-Apr-2017 15:17:42	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date: 13-Apr-2017 15:17:42 Instrument ID: HP6890-25

Lims ID: std4

Client ID:

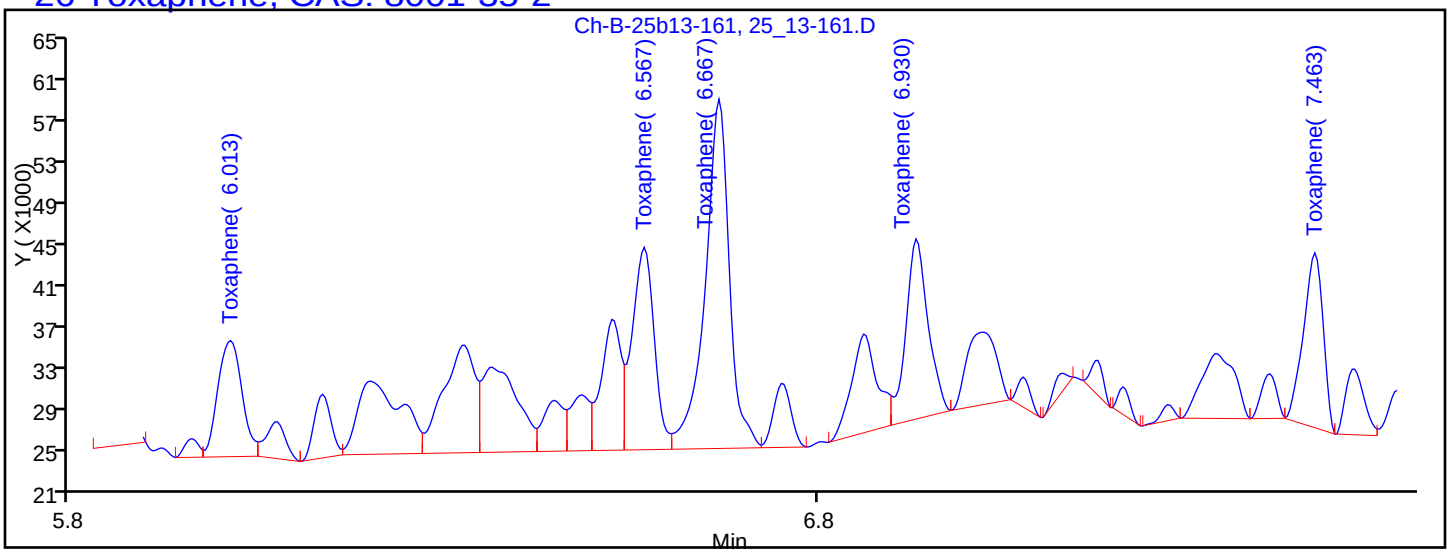
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

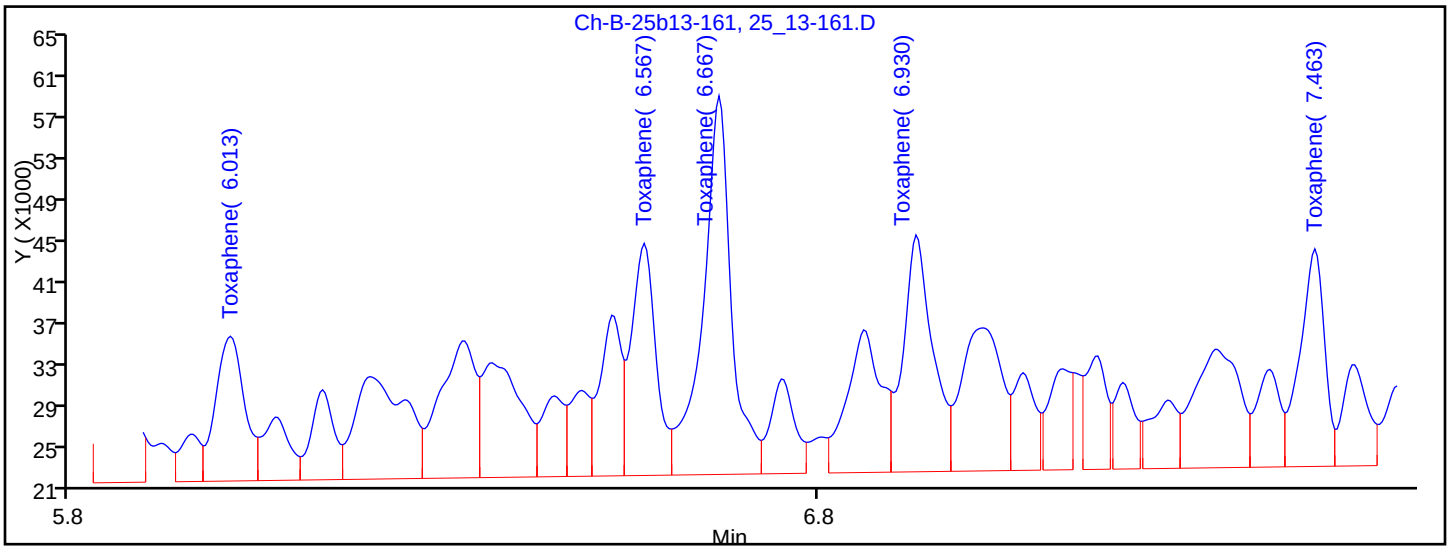
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.013	Response = 24943
6.567	Response = 39859
6.667	Response = 75018
6.930	Response = 35511
7.463	Response = 30418



Manual Integration Results

6.013	Response = 37153	M
6.567	Response = 50903	M
6.667	Response = 96100	M
6.930	Response = 62310	M
7.463	Response = 47592	M

Reviewer: RudzG, 17-Apr-2017 12:07:35

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Apr-2017 15:37:24 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:34 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:09:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14249738	0.5000	0.5000	
2	2.257	2.253	0.004	10161889	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	62848	0.0500	0.0548	M
1	5.813	5.803	0.010	77888	0.0500	0.0534	M
1	6.040	6.033	0.007	42823	0.0500	0.0550	M
1	6.377	6.370	0.007	46515	0.0500	0.0567	M
1	6.473	6.460	0.013	43710	0.0500	0.0496	M
		Average of Peak Amounts =				0.0539	
2	6.017	6.013	0.004	18892	0.0500	0.0551	M
2	6.570	6.567	0.003	26211	0.0500	0.0551	M
2	6.670	6.663	0.007	49816	0.0500	0.0551	M
2	6.933	6.930	0.003	32225	0.0500	0.0540	M
2	7.467	7.460	0.007	24368	0.0500	0.0552	M
		Average of Peak Amounts =				0.0549	
						RPD = 1.81	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.05ng_00012	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

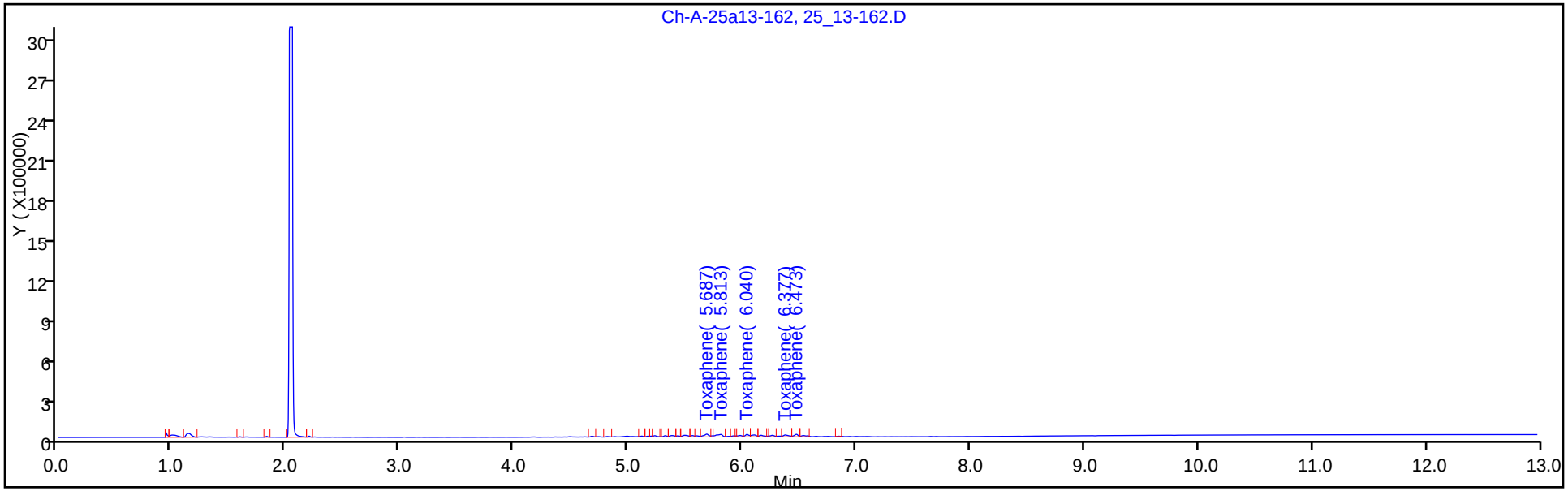
Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

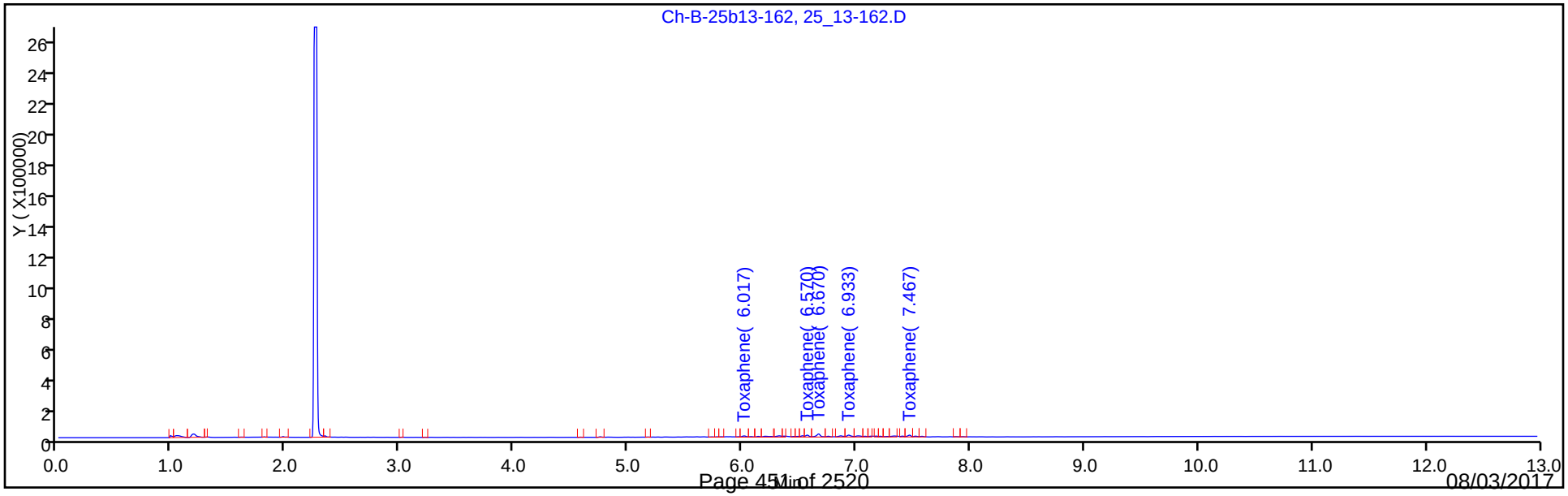
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date:	13-Apr-2017 15:37:24	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date: 13-Apr-2017 15:37:24 Instrument ID: HP6890-25

Lims ID: std5

Client ID:

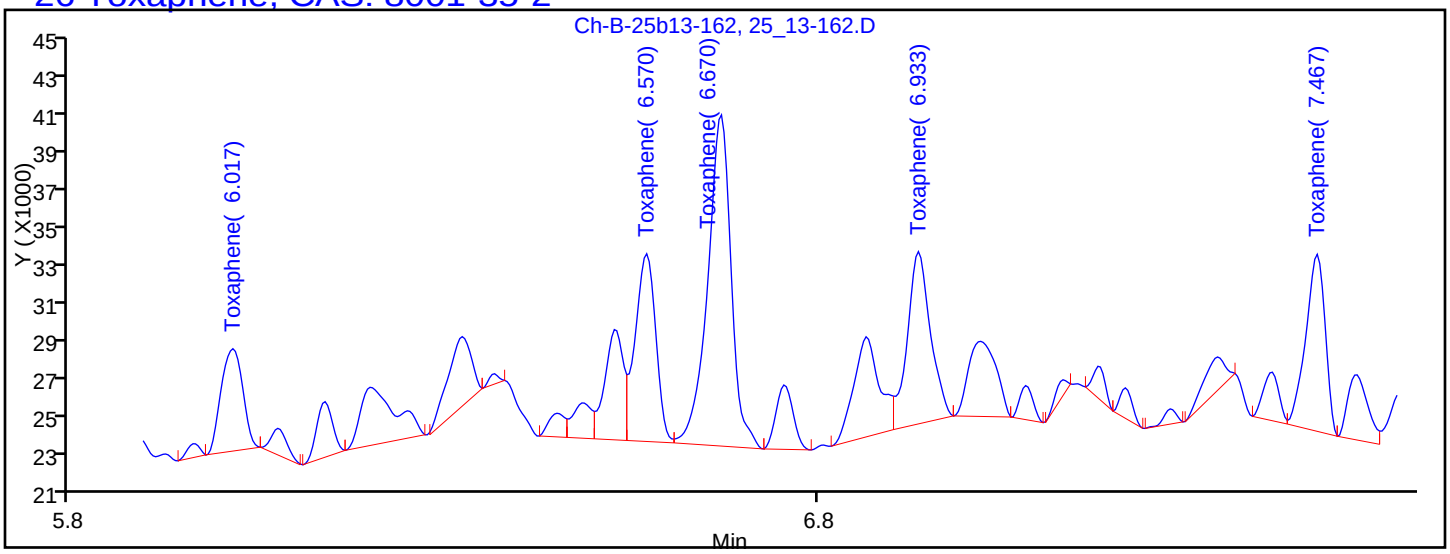
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

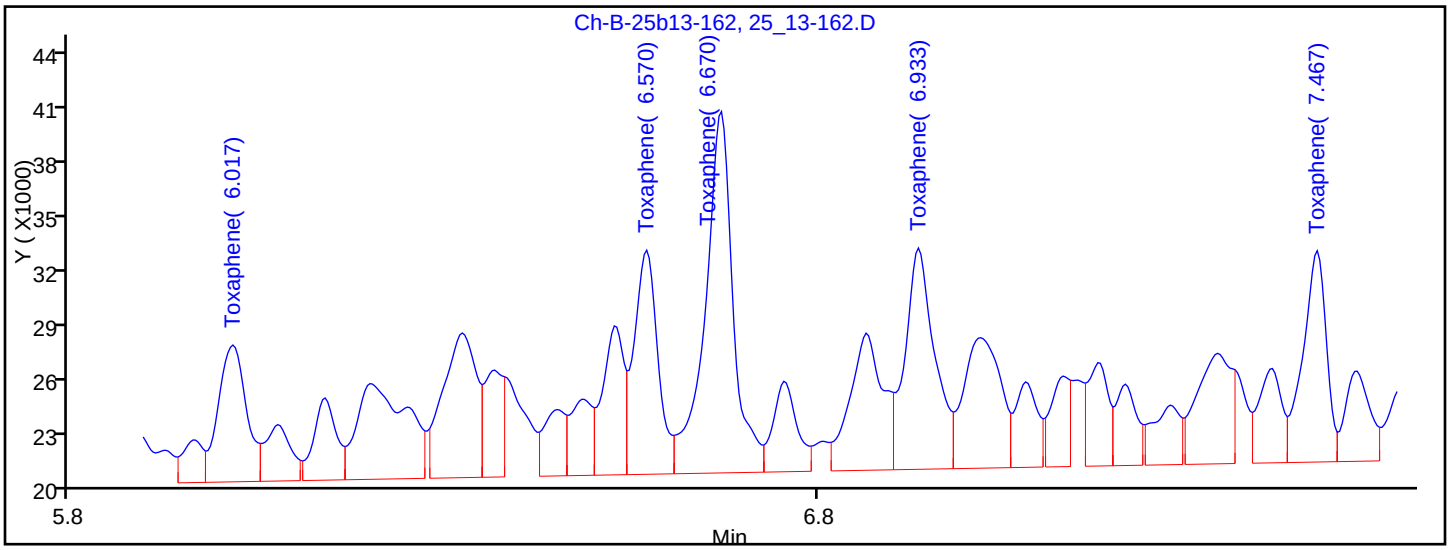
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.017	Response = 10878
6.570	Response = 18940
6.670	Response = 38120
6.933	Response = 19520
7.467	Response = 16834



Manual Integration Results

6.017	Response = 18892	M
6.570	Response = 26211	M
6.670	Response = 49816	M
6.933	Response = 32225	M
7.467	Response = 24368	M

Reviewer: RudzG, 17-Apr-2017 12:08:08

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.8055	1.9721	2.2459	2.1378	2.0712	Lin1	-0.001	2.1331							0.9990		0.9900
gamma-BHC (Lindane)	1.6127	1.7516	1.9899	1.8968	1.8438	Lin1	-0.001	1.8952							0.9990		0.9900
beta-BHC	0.6749	0.6734	0.7540	0.7351	0.7411	Lin1	0	0.7450							1.0000		0.9900
delta-BHC	1.4909	1.6738	1.9572	1.8819	1.8485	Lin1	-0.002	1.8944							0.9990		0.9900
Heptachlor	1.5636	1.6764	1.7972	1.6499	1.5694	Lin1	0.0003	1.6292							0.9970		0.9900
Aldrin	1.5152	1.6416	1.8185	1.6974	1.6259	Lin1	0	1.6836							0.9980		0.9900
Heptachlor epoxide	1.4202	1.4947	1.5595	1.4299	1.3639	Lin1	0.0006	1.4108							0.9970		0.9900
gamma-Chlordane	1.5211	1.5529	1.7430	1.6732	1.6218	Lin1	-0.001	1.6632							0.9990		0.9900
alpha-Chlordane	1.3789	1.4503	1.6437	1.5745	1.5312	Lin1	-0.001	1.5708							0.9990		0.9900
4,4'-DDE	1.2437	1.3744	1.6259	1.5522	1.5057	Lin1	-0.001	1.5530							0.9990		0.9900
Endosulfan I	1.2374	1.3497	1.4098	1.3001	1.2460	Lin1	0.0003	1.2874							0.9970		0.9900
Dieldrin	1.3440	1.4242	1.5710	1.4662	1.4172	Lin1	0	1.4599							0.9980		0.9900
Endrin	1.3538	1.4268	1.5203	1.3955	1.3266	Lin1	0.0004	1.3761							0.9970		0.9900
4,4'-DDD	0.9879	1.1105	1.3190	1.2628	1.2199	Lin1	-0.001	1.2613							0.9990		0.9900
Endosulfan II	1.1110	1.2567	1.3370	1.2409	1.1859	Lin1	0	1.2290							0.9970		0.9900
4,4'-DDT	1.0149	1.1367	1.3964	1.3520	1.3161	Lin1	-0.002	1.3565							0.9990		0.9900
Endrin aldehyde	0.9837	1.0167	1.0622	1.0010	0.9571	Lin1	0.0003	0.9857							0.9980		0.9900
Methoxychlor	0.5061	0.5509	0.6091	0.5821	0.5656	Lin1	0	0.5805							0.9990		0.9900
Endosulfan sulfate	1.0626	1.1139	1.1823	1.1226	1.0700	Lin1	0.0001	1.1044							0.9980		0.9900
Endrin ketone	1.2021	1.2855	1.3860	1.3014	1.2454	Lin1	0	1.2867							0.9980		0.9900
Tetrachloro-m-xylene	0.8353	0.8268	0.9631	0.9461	0.9974	Lin1	-0.001	0.9843							0.9990		0.9900
DCB Decachlorobiphenyl	1.0274	1.0231	1.0650	1.0243	0.9988	Lin1	0.0002	1.0158							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Lin1	267537	568795	3213244	6238209	8712119	0.00500	0.0100	0.0500	0.100	0.150
gamma-BHC (Lindane)	BNB	Lin1	238975	505210	2847000	5534975	7755592	0.00500	0.0100	0.0500	0.100	0.150
beta-BHC	BNB	Lin1	100012	194226	1078766	2145019	3117547	0.00500	0.0100	0.0500	0.100	0.150
delta-BHC	BNB	Lin1	220922	482768	2800164	5491533	7775718	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor	BNB	Lin1	231699	483523	2571235	4814374	6601656	0.00500	0.0100	0.0500	0.100	0.150
Aldrin	BNB	Lin1	224528	473477	2601768	4953087	6839396	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor epoxide	BNB	Lin1	210453	431108	2231095	4172576	5736978	0.00500	0.0100	0.0500	0.100	0.150
gamma-Chlordane	BNB	Lin1	225398	447907	2493727	4882487	6821947	0.00500	0.0100	0.0500	0.100	0.150
alpha-Chlordane	BNB	Lin1	204326	418316	2351663	4594368	6440908	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDE	BNB	Lin1	184289	396422	2326143	4529294	6333464	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan I	BNB	Lin1	183357	389280	2017014	3793793	5241380	0.00500	0.0100	0.0500	0.100	0.150
Dieldrin	BNB	Lin1	199150	410766	2247573	4278445	5961510	0.00500	0.0100	0.0500	0.100	0.150
Endrin	BNB	Lin1	200604	411532	2175102	4072224	5580089	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDD	BNB	Lin1	146389	320289	1887017	3684876	5131521	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan II	BNB	Lin1	164627	362479	1912808	3620892	4988199	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDT	BNB	Lin1	150384	327862	1997848	3945220	5535921	0.00500	0.0100	0.0500	0.100	0.150
Endrin aldehyde	BNB	Lin1	145766	293235	1519646	2920853	4025863	0.00500	0.0100	0.0500	0.100	0.150
Methoxychlor	BNB	Lin1	74988	158894	871432	1698697	2379153	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan sulfate	BNB	Lin1	157455	321289	1691547	3275755	4501001	0.00500	0.0100	0.0500	0.100	0.150
Endrin ketone	BNB	Lin1	178126	370765	1982962	3797484	5238606	0.00500	0.0100	0.0500	0.100	0.150
Tetrachloro-m-xylene	BNB	Lin1	123780	238484	1377925	2760769	4195356	0.00500	0.0100	0.0500	0.100	0.150
DCB Decachlorobiphenyl	BNB	Lin1	152247	295097	1523655	2988955	4201416	0.00500	0.0100	0.0500	0.100	0.150

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jul-2017 11:23:55 ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:06 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14021348	0.5000	0.5000	
2	2.200	2.190	0.010	10118948	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.527	2.520	0.007	4195356	0.1500	0.1531	
2	2.913	2.900	0.013	3794119	0.1500	0.1468	
						RPD = 4.16	
6 alpha-BHC							
1	2.950	2.943	0.007	8712119	0.1500	0.1462	
2	3.460	3.447	0.013	6086395	0.1500	0.1465	
						RPD = 0.16	
7 gamma-BHC (Lindane)							
1	3.207	3.197	0.010	7755592	0.1500	0.1465	
2	3.810	3.793	0.017	5265318	0.1500	0.1479	
						RPD = 0.95	
8 beta-BHC							
1	3.277	3.267	0.010	3117547	0.1500	0.1498	
2	3.880	3.863	0.017	2230068	0.1500	0.1483	
						RPD = 1.04	
9 delta-BHC							
1	3.430	3.420	0.010	7775718	0.1500	0.1473	
2	4.190	4.177	0.013	5410855	0.1500	0.1476	
						RPD = 0.16	
11 Heptachlor							
1	3.617	3.607	0.010	6601656	0.1500	0.1443	
2	4.277	4.260	0.017	4760376	0.1500	0.1455	
						RPD = 0.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.893	3.887	0.006	6839396	0.1500	0.1451	
2	4.627	4.610	0.017	4750207	0.1500	0.1462	
						RPD = 0.77	
14 Heptachlor epoxide							
1	4.490	4.480	0.010	5736978	0.1500	0.1446	
2	5.230	5.213	0.017	3928434	0.1500	0.1463	
						RPD = 1.21	
16 gamma-Chlordane							
1	4.613	4.607	0.006	6821947	0.1500	0.1466	
2	5.427	5.413	0.014	4385102	0.1500	0.1472	
						RPD = 0.36	
17 alpha-Chlordane							
1	4.750	4.740	0.010	6440908	0.1500	0.1467	
2	5.580	5.567	0.013	3999723	0.1500	0.1492	
						RPD = 1.63	
18 4,4'-DDE							
1	4.833	4.823	0.010	6333464	0.1500	0.1463	
2	5.740	5.727	0.013	4109303	0.1500	0.1470	
						RPD = 0.50	
19 Endosulfan I							
1	4.887	4.877	0.010	5241380	0.1500	0.1449	
2	5.647	5.633	0.014	3507119	0.1500	0.1460	
						RPD = 0.75	
21 Dieldrin							
1	5.133	5.123	0.010	5961510	0.1500	0.1458	
2	5.933	5.920	0.013	4103709	0.1500	0.1463	
						RPD = 0.33	
23 Endrin							
1	5.370	5.360	0.010	5580089	0.1500	0.1443	
2	6.253	6.240	0.013	3776963	0.1500	0.1463	
						RPD = 1.41	
24 4,4'-DDD							
1	5.447	5.440	0.007	5131521	0.1500	0.1460	
2	6.347	6.333	0.014	3220941	0.1500	0.1478	
						RPD = 1.21	
27 Endosulfan II							
1	5.600	5.590	0.010	4988199	0.1500	0.1448	
2	6.470	6.457	0.013	3286959	0.1500	0.1466	
						RPD = 1.25	
28 4,4'-DDT							
1	5.737	5.730	0.007	5535921	0.1500	0.1468	
2	6.670	6.657	0.013	3287650	0.1500	0.1487	
						RPD = 1.31	
29 Endrin aldehyde							
1	6.033	6.023	0.010	4025863	0.1500	0.1454	
2	6.817	6.803	0.014	2532436	0.1500	0.1468	
						RPD = 0.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.247	6.240	0.007	2379153	0.1500	0.1466	
2	7.357	7.347	0.010	1470298	0.1500	0.1497	
						RPD = 2.08	
32 Endosulfan sulfate							
1	6.480	6.470	0.010	4501001	0.1500	0.1452	
2	7.100	7.087	0.013	2882717	0.1500	0.1473	
						RPD = 1.38	
33 Endrin ketone							
1	6.763	6.757	0.006	5238606	0.1500	0.1452	
2	7.650	7.637	0.013	3283127	0.1500	0.1478	
						RPD = 1.78	
$ 34 DCB Decachlorobiphenyl							
1	7.793	7.787	0.006	4201416	0.1500	0.1473	
2	8.850	8.837	0.013	2396070	0.1500	0.1480	
						RPD = 0.46	
S 1 BHC, Total							
1						0.5899	
2						0.5902	
						RPD = 0.05	

Reagents:

PEST_CAL_.15_00024	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

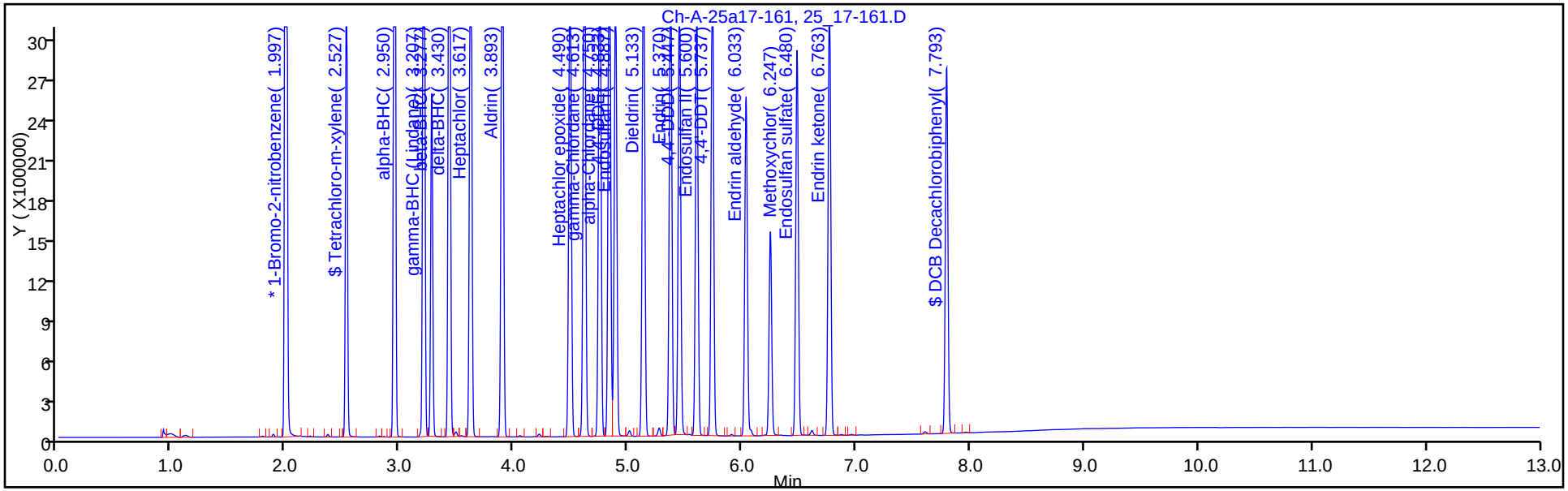
Report Date: 21-Jul-2017 07:04:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

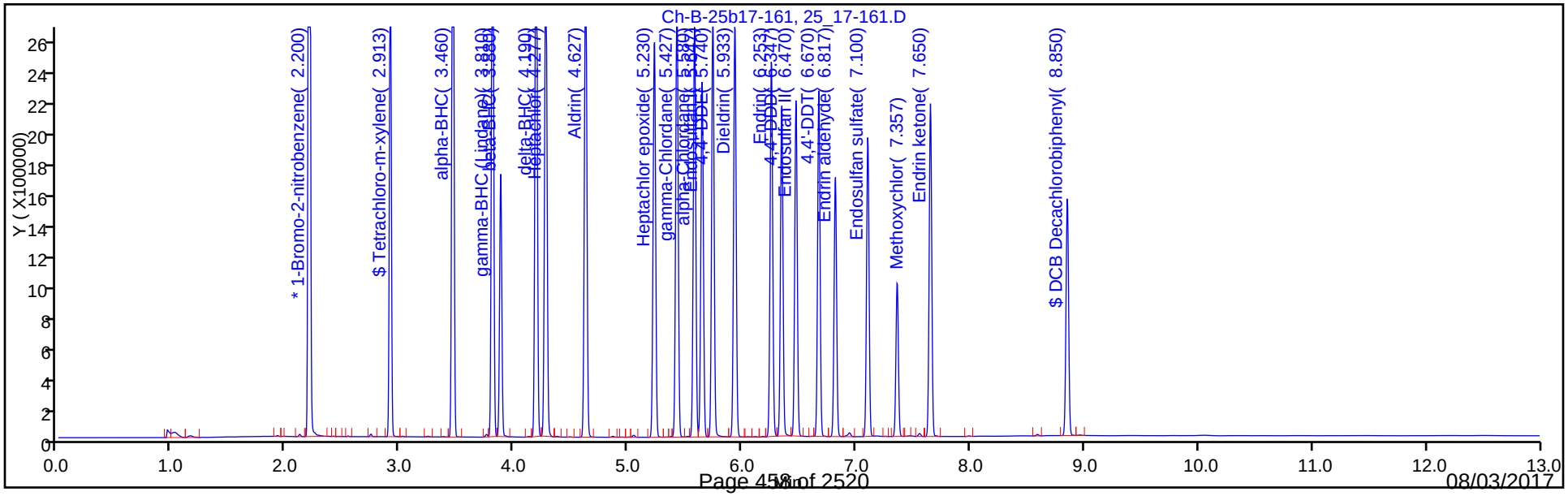
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D

Injection Date:	20-Jul-2017 11:23:55	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	36
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jul-2017 11:43:38 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:09 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14590133	0.5000	0.5000	
2	2.197	2.190	0.007	10463611	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	2760769	0.1000	0.0972	
2	2.907	2.900	0.007	2691792	0.1000	0.1008	
						RPD = 3.70	
6 alpha-BHC							
1	2.947	2.943	0.004	6238209	0.1000	0.1008	
2	3.453	3.447	0.006	4327895	0.1000	0.1010	
						RPD = 0.14	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	5534975	0.1000	0.1007	
2	3.800	3.793	0.007	3682220	0.1000	0.1003	
						RPD = 0.38	
8 beta-BHC							
1	3.270	3.267	0.003	2145019	0.1000	0.0993	
2	3.873	3.863	0.010	1559143	0.1000	0.1004	
						RPD = 1.19	
9 delta-BHC							
1	3.427	3.420	0.007	5491533	0.1000	0.1003	
2	4.183	4.177	0.006	3802962	0.1000	0.1007	
						RPD = 0.34	
11 Heptachlor							
1	3.613	3.607	0.006	4814374	0.1000	0.1011	
2	4.270	4.260	0.010	3422261	0.1000	0.1012	
						RPD = 0.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.890	3.887	0.003	4953087	0.1000	0.1010	
2	4.620	4.610	0.010	3397671	0.1000	0.1012	
						RPD = 0.18	
14 Heptachlor epoxide							
1	4.483	4.480	0.003	4172576	0.1000	0.1009	
2	5.223	5.213	0.010	2797907	0.1000	0.1008	
						RPD = 0.07	
16 gamma-Chlordane							
1	4.610	4.607	0.003	4882487	0.1000	0.1010	
2	5.420	5.413	0.007	3099952	0.1000	0.1009	
						RPD = 0.09	
17 alpha-Chlordane							
1	4.747	4.740	0.007	4594368	0.1000	0.1008	
2	5.577	5.567	0.010	2764770	0.1000	0.1000	
						RPD = 0.75	
18 4,4'-DDE							
1	4.830	4.823	0.007	4529294	0.1000	0.1008	
2	5.737	5.727	0.010	2912946	0.1000	0.1011	
						RPD = 0.25	
19 Endosulfan I							
1	4.883	4.877	0.006	3793793	0.1000	0.1007	
2	5.643	5.633	0.010	2509064	0.1000	0.1011	
						RPD = 0.35	
21 Dieldrin							
1	5.130	5.123	0.007	4278445	0.1000	0.1006	
2	5.930	5.920	0.010	2926621	0.1000	0.1010	
						RPD = 0.45	
23 Endrin							
1	5.367	5.360	0.007	4072224	0.1000	0.1011	
2	6.250	6.240	0.010	2693818	0.1000	0.1011	
						RPD = 0.01	
24 4,4'-DDD							
1	5.443	5.440	0.003	3684876	0.1000	0.1011	
2	6.340	6.333	0.007	2266556	0.1000	0.1010	
						RPD = 0.12	
27 Endosulfan II							
1	5.597	5.590	0.007	3620892	0.1000	0.1010	
2	6.467	6.457	0.010	2344792	0.1000	0.1012	
						RPD = 0.23	
28 4,4'-DDT							
1	5.733	5.730	0.003	3945220	0.1000	0.1009	
2	6.667	6.657	0.010	2292895	0.1000	0.1009	
						RPD = 0.00	
29 Endrin aldehyde							
1	6.030	6.023	0.007	2920853	0.1000	0.1013	
2	6.810	6.803	0.007	1806433	0.1000	0.1014	
						RPD = 0.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	1698697	0.1000	0.1007	
2	7.353	7.347	0.006	1016763	0.1000	0.1006	
						RPD = 0.08	
32 Endosulfan sulfate							
1	6.477	6.470	0.007	3275755	0.1000	0.1016	
2	7.097	7.087	0.010	2049266	0.1000	0.1014	
						RPD = 0.15	
33 Endrin ketone							
1	6.760	6.757	0.003	3797484	0.1000	0.1012	
2	7.647	7.637	0.010	2315790	0.1000	0.1011	
						RPD = 0.05	
$ 34 DCB Decachlorobiphenyl							
1	7.790	7.787	0.003	2988955	0.1000	0.1007	
2	8.847	8.837	0.010	1683638	0.1000	0.1005	
						RPD = 0.13	
S 1 BHC, Total							
1						0.4011	
2						0.4024	
						RPD = 0.32	

Reagents:

PEST_CAL_.10_00026	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

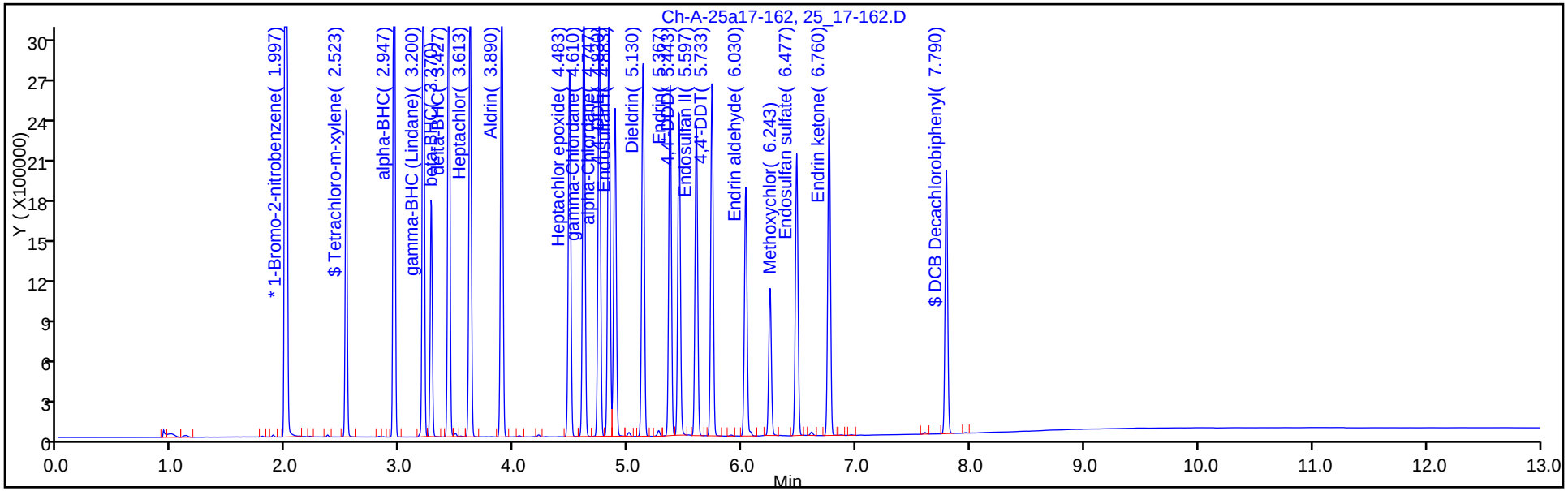
Report Date: 21-Jul-2017 07:04:09 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

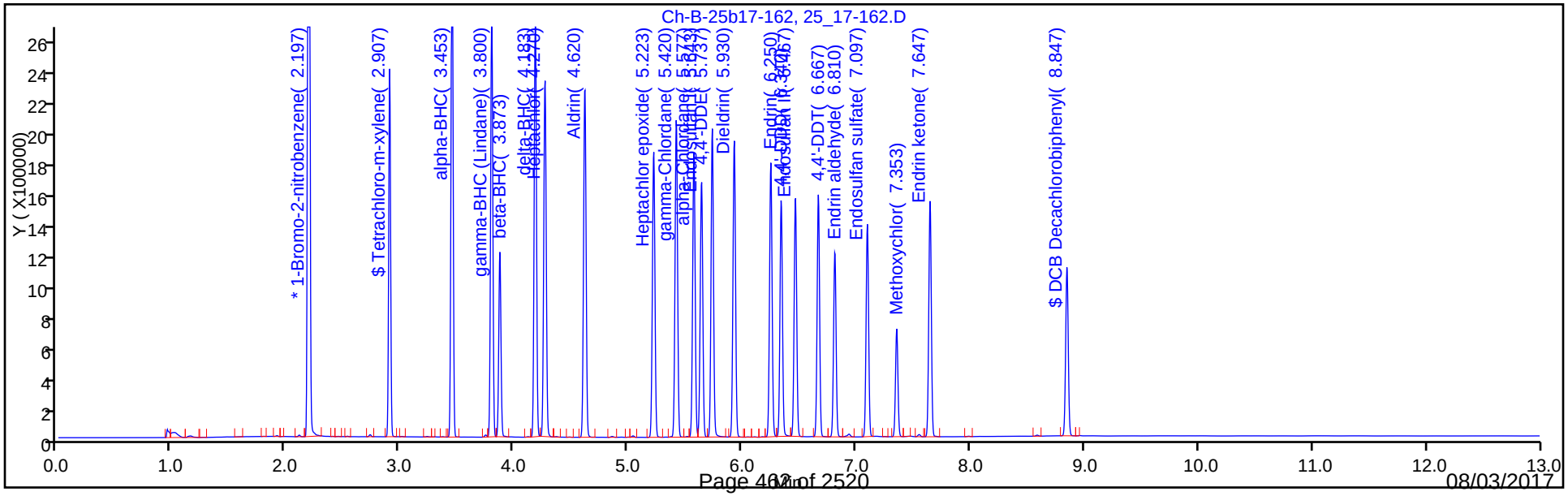
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D

Injection Date:	20-Jul-2017 11:43:38	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D
Lims ID: std3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 20-Jul-2017 12:03:16 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 09:09:49 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:50:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14306926	0.5000	0.5000	
2	2.190	2.190	0.000	10246784	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.520	0.000	1377925	0.0500	0.0500	
2	2.900	2.900	0.000	1372006	0.0500	0.0527	
						RPD = 5.20	
6 alpha-BHC							
1	2.943	2.943	0.000	3213244	0.0500	0.0532	
2	3.447	3.447	0.000	2205389	0.0500	0.0529	
						RPD = 0.65	
7 gamma-BHC (Lindane)							
1	3.197	3.197	0.000	2847000	0.0500	0.0531	
2	3.793	3.793	0.000	1859476	0.0500	0.0521	
						RPD = 1.88	
8 beta-BHC							
1	3.267	3.267	0.000	1078766	0.0500	0.0512	
2	3.863	3.863	0.000	778546	0.0500	0.0515	
						RPD = 0.63	
9 delta-BHC							
1	3.420	3.420	0.000	2800164	0.0500	0.0526	
2	4.177	4.177	0.000	1906142	0.0500	0.0521	
						RPD = 1.10	
11 Heptachlor							
1	3.607	3.607	0.000	2571235	0.0500	0.0550	
2	4.260	4.260	0.000	1771775	0.0500	0.0536	
						RPD = 2.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	2601768	0.0500	0.0542	
2	4.610	4.610	0.000	1736921	0.0500	0.0530	
						RPD = 2.32	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	2231095	0.0500	0.0548	
2	5.213	5.213	0.000	1443231	0.0500	0.0532	
						RPD = 3.01	
16 gamma-Chlordane							
1	4.607	4.607	0.000	2493727	0.0500	0.0528	
2	5.413	5.413	0.000	1560556	0.0500	0.0523	
						RPD = 0.93	
17 alpha-Chlordane							
1	4.740	4.740	0.000	2351663	0.0500	0.0528	
2	5.567	5.567	0.000	1372547	0.0500	0.0511	
						RPD = 3.30	
18 4,4'-DDE							
1	4.823	4.823	0.000	2326143	0.0500	0.0532	
2	5.727	5.727	0.000	1460600	0.0500	0.0522	
						RPD = 1.96	
19 Endosulfan I							
1	4.877	4.877	0.000	2017014	0.0500	0.0545	
2	5.633	5.633	0.000	1289575	0.0500	0.0532	
						RPD = 2.48	
21 Dieldrin							
1	5.123	5.123	0.000	2247573	0.0500	0.0540	
2	5.920	5.920	0.000	1495948	0.0500	0.0530	
						RPD = 1.76	
23 Endrin							
1	5.360	5.360	0.000	2175102	0.0500	0.0549	
2	6.240	6.240	0.000	1374103	0.0500	0.0529	
						RPD = 3.78	
24 4,4'-DDD							
1	5.440	5.440	0.000	1887017	0.0500	0.0532	
2	6.333	6.333	0.000	1121860	0.0500	0.0516	
						RPD = 3.18	
27 Endosulfan II							
1	5.590	5.590	0.000	1912808	0.0500	0.0544	
2	6.457	6.457	0.000	1186491	0.0500	0.0525	
						RPD = 3.63	
28 4,4'-DDT							
1	5.730	5.730	0.000	1997848	0.0500	0.0527	
2	6.657	6.657	0.000	1107622	0.0500	0.0507	
						RPD = 3.81	
29 Endrin aldehyde							
1	6.023	6.023	0.000	1519646	0.0500	0.0536	
2	6.803	6.803	0.000	906360	0.0500	0.0521	
						RPD = 2.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	871432	0.0500	0.0529	
2	7.347	7.347	0.000	485319	0.0500	0.0499	
						RPD = 5.85	
32 Endosulfan sulfate							
1	6.470	6.470	0.000	1691547	0.0500	0.0534	
2	7.087	7.087	0.000	1014907	0.0500	0.0516	
						RPD = 3.61	
33 Endrin ketone							
1	6.757	6.757	0.000	1982962	0.0500	0.0539	
2	7.637	7.637	0.000	1140583	0.0500	0.0513	
						RPD = 4.90	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	1523655	0.0500	0.0522	
2	8.837	8.837	0.000	847819	0.0500	0.0516	
						RPD = 1.17	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

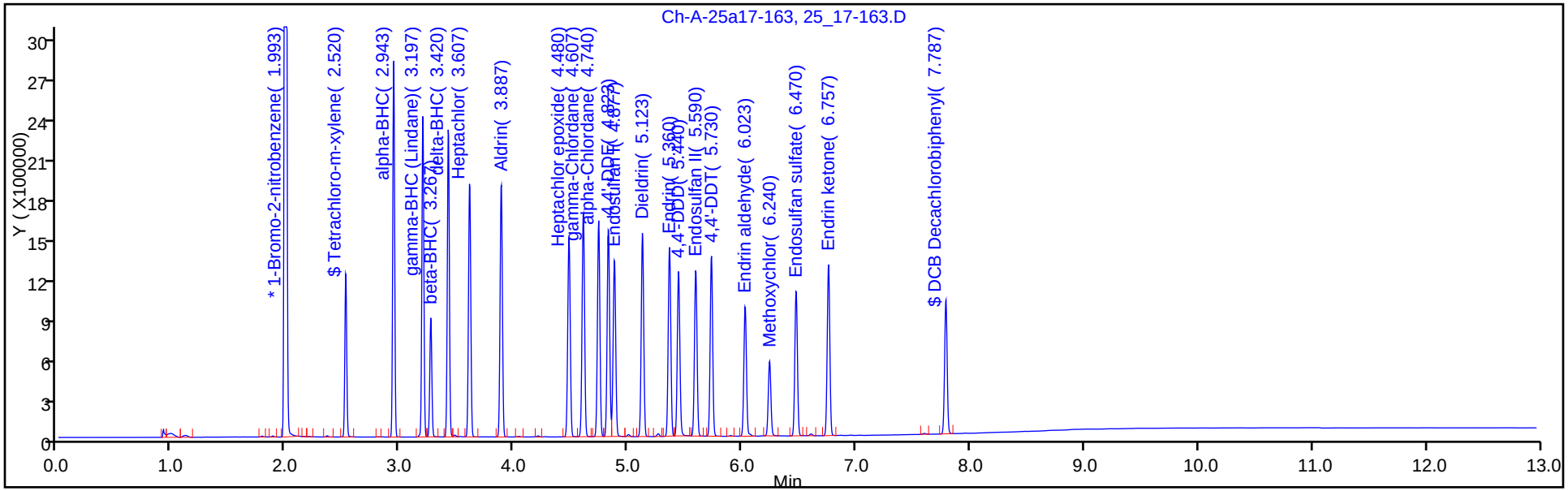
Report Date: 21-Jul-2017 09:09:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

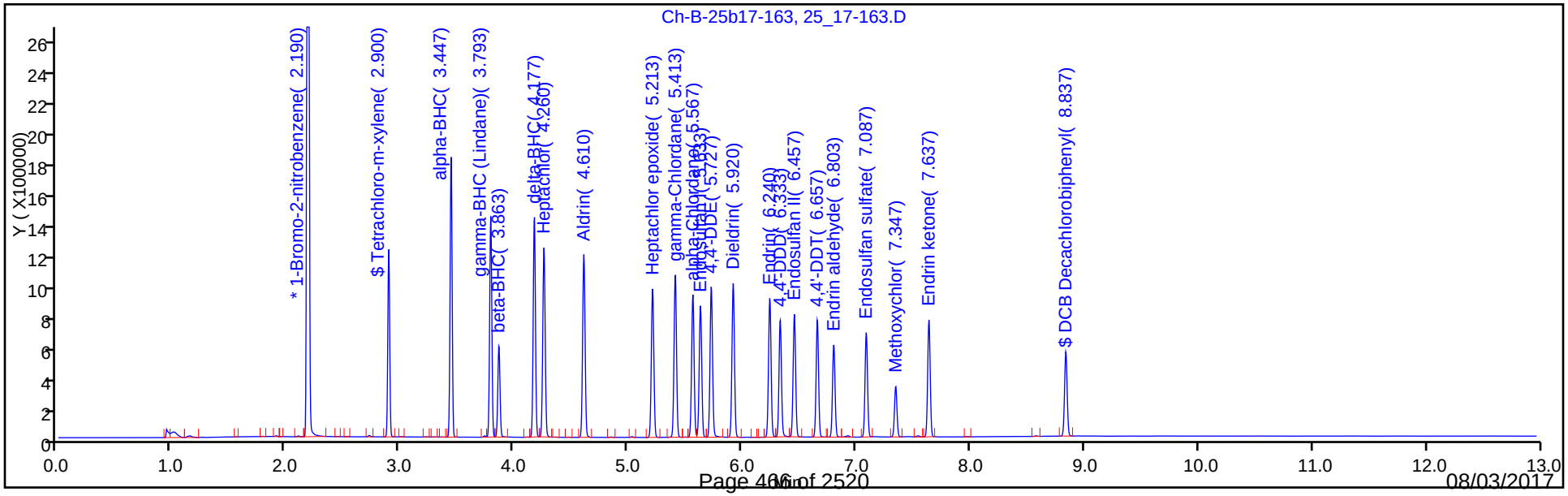
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D

Injection Date:	20-Jul-2017 12:03:16	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jul-2017 12:22:49 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:11 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14421304	0.5000	0.5000	
2	2.190	2.190	0.000	10292415	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	238484	0.0100	0.009465	
2	2.900	2.900	0.000	247727	0.0100	0.009755	
						RPD = 3.01	
6 alpha-BHC							
1	2.943	2.943	0.000	568795	0.0100	0.009848	
2	3.447	3.447	0.000	382657	0.0100	0.009767	
						RPD = 0.83	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	505210	0.0100	0.009840	
2	3.793	3.793	0.000	322126	0.0100	0.009646	
						RPD = 1.99	
8 beta-BHC							
1	3.270	3.267	0.003	194226	0.0100	0.009622	
2	3.867	3.863	0.004	140907	0.0100	0.009780	
						RPD = 1.62	
9 delta-BHC							
1	3.423	3.420	0.003	482768	0.0100	0.009807	
2	4.177	4.177	0.000	324630	0.0100	0.009740	
						RPD = 0.68	
11 Heptachlor							
1	3.610	3.607	0.003	483523	0.0100	0.0101	
2	4.260	4.260	0.000	321573	0.0100	0.009897	
						RPD = 1.91	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	473477	0.0100	0.0100	
2	4.610	4.610	0.000	311120	0.0100	0.009679	
						RPD = 2.87	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	431108	0.0100	0.0101	
2	5.213	5.213	0.000	262983	0.0100	0.009787	
						RPD = 3.58	
16 gamma-Chlordane							
1	4.607	4.607	0.000	447907	0.0100	0.009701	
2	5.413	5.413	0.000	270450	0.0100	0.009734	
						RPD = 0.34	
17 alpha-Chlordane							
1	4.740	4.740	0.000	418316	0.0100	0.009754	
2	5.567	5.567	0.000	239641	0.0100	0.009613	
						RPD = 1.46	
18 4,4'-DDE							
1	4.827	4.823	0.004	396422	0.0100	0.009736	
2	5.727	5.727	0.000	251350	0.0100	0.009691	
						RPD = 0.46	
19 Endosulfan I							
1	4.880	4.877	0.003	389280	0.0100	0.0102	
2	5.633	5.633	0.000	235549	0.0100	0.009860	
						RPD = 3.77	
21 Dieldrin							
1	5.127	5.123	0.004	410766	0.0100	0.0099	
2	5.920	5.920	0.000	264749	0.0100	0.009813	
						RPD = 1.00	
23 Endrin							
1	5.363	5.360	0.003	411532	0.0100	0.0101	
2	6.240	6.240	0.000	244764	0.0100	0.009790	
						RPD = 2.73	
24 4,4'-DDD							
1	5.443	5.440	0.003	320289	0.0100	0.009761	
2	6.333	6.333	0.000	188277	0.0100	0.009546	
						RPD = 2.23	
27 Endosulfan II							
1	5.593	5.590	0.003	362479	0.0100	0.0103	
2	6.457	6.457	0.000	215751	0.0100	0.009798	
						RPD = 4.60	
28 4,4'-DDT							
1	5.730	5.730	0.000	327862	0.0100	0.009620	
2	6.657	6.657	0.000	171206	0.0100	0.009414	
						RPD = 2.17	
29 Endrin aldehyde							
1	6.023	6.023	0.000	293235	0.0100	0.0100	
2	6.800	6.803	-0.003	168699	0.0100	0.009856	
						RPD = 1.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	158894	0.0100	0.0099	
2	7.347	7.347	0.000	79767	0.0100	0.009552	
						RPD = 4.03	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	321289	0.0100	0.0100	
2	7.087	7.087	0.000	185100	0.0100	0.009802	
						RPD = 2.07	
33 Endrin ketone							
1	6.757	6.757	0.000	370765	0.0100	0.0100	
2	7.637	7.637	0.000	199838	0.0100	0.009701	
						RPD = 3.24	
$ 34 DCB Decachlorobiphenyl							
1	7.783	7.787	-0.004	295097	0.0100	0.009898	
2	8.837	8.837	0.000	164949	0.0100	0.0099	
						RPD = 0.11	
S 1 BHC, Total							
1						0.0391	
2						0.0389	
						RPD = 0.47	

Reagents:

pest_cal_.01_00017	Amount Added: 1.00	Units: mL		
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent	

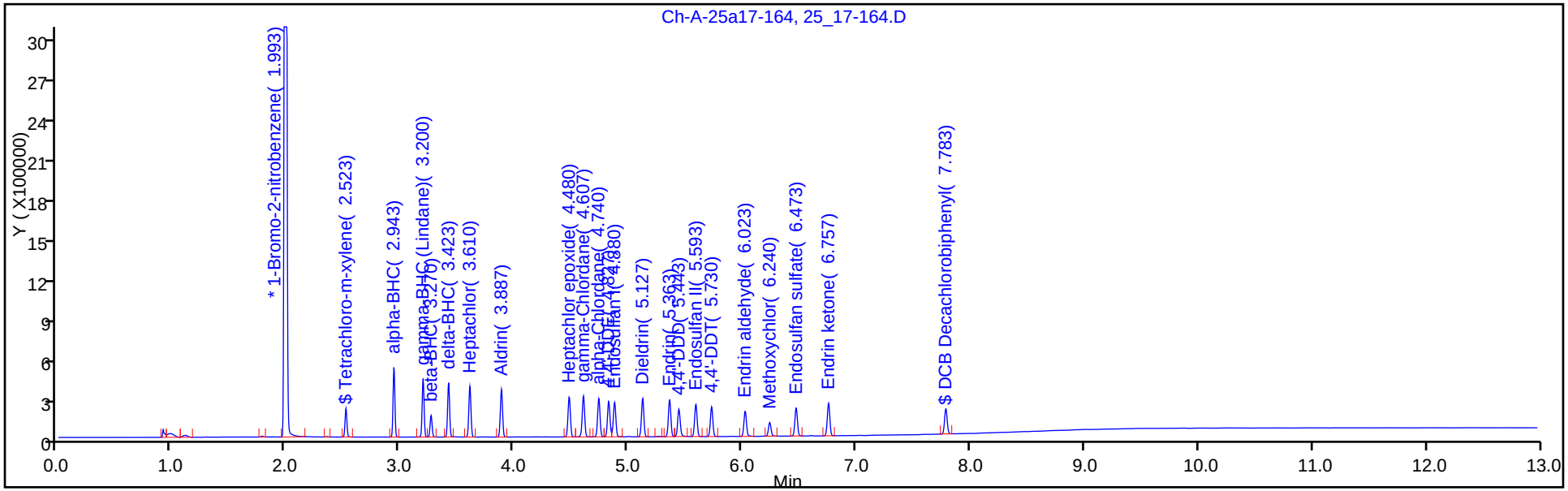
Report Date: 21-Jul-2017 07:04:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

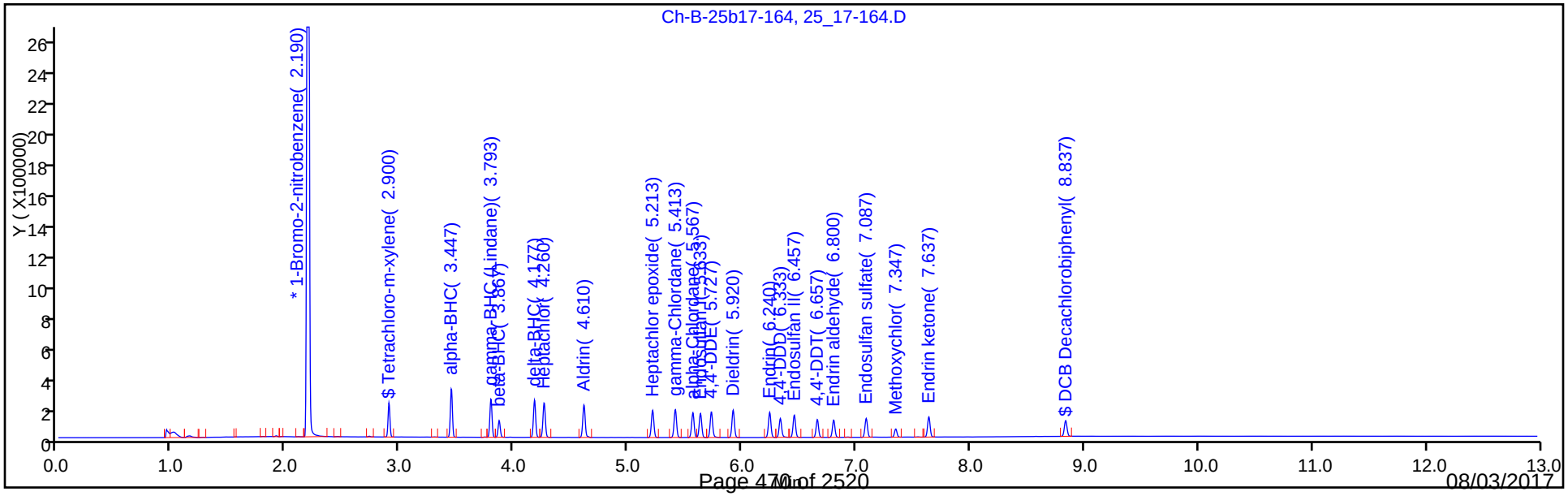
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D

Injection Date:	20-Jul-2017 12:22:49	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Jul-2017 12:42:26 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:13 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:15:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14818153	0.5000	0.5000	
2	2.190	2.190	0.000	10630257	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	123780	0.005000	0.005308	
2	2.900	2.900	0.000	124318	0.005000	0.004921	
						RPD = 7.57	
6 alpha-BHC							
1	2.943	2.943	0.000	267537	0.005000	0.004835	
2	3.447	3.447	0.000	181501	0.005000	0.004896	
						RPD = 1.25	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	238975	0.005000	0.004852	
2	3.793	3.793	0.000	158826	0.005000	0.005021	
						RPD = 3.42	
8 beta-BHC							
1	3.270	3.267	0.003	100012	0.005000	0.005113	
2	3.867	3.863	0.004	69609	0.005000	0.004994	
						RPD = 2.35	
9 delta-BHC							
1	3.423	3.420	0.003	220922	0.005000	0.004906	
2	4.177	4.177	0.000	150253	0.005000	0.004972	
						RPD = 1.33	
11 Heptachlor							
1	3.610	3.607	0.003	231699	0.005000	0.004597	
2	4.260	4.260	0.000	155864	0.005000	0.004778	
						RPD = 3.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	224528	0.005000	0.004710	
2	4.610	4.610	0.000	158874	0.005000	0.004929	
						RPD = 4.54	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	210453	0.005000	0.004583	
2	5.213	5.213	0.000	132707	0.005000	0.004868	
						RPD = 6.04	
16 gamma-Chlordane							
1	4.607	4.607	0.000	225398	0.005000	0.004937	
2	5.410	5.413	-0.003	128866	0.005000	0.004956	
						RPD = 0.39	
17 alpha-Chlordane							
1	4.743	4.740	0.003	204326	0.005000	0.004910	
2	5.567	5.567	0.000	119899	0.005000	0.005109	
						RPD = 3.98	
18 4,4'-DDE							
1	4.830	4.823	0.007	184289	0.005000	0.004890	
2	5.730	5.727	0.003	120388	0.005000	0.004979	
						RPD = 1.79	
19 Endosulfan I							
1	4.880	4.877	0.003	183357	0.005000	0.004561	
2	5.633	5.633	0.000	116164	0.005000	0.004830	
						RPD = 5.73	
21 Dieldrin							
1	5.127	5.123	0.004	199150	0.005000	0.004759	
2	5.920	5.920	0.000	126988	0.005000	0.004864	
						RPD = 2.18	
23 Endrin							
1	5.363	5.360	0.003	200604	0.005000	0.004611	
2	6.240	6.240	0.000	119295	0.005000	0.004883	
						RPD = 5.72	
24 4,4'-DDD							
1	5.447	5.440	0.007	146389	0.005000	0.004873	
2	6.333	6.333	0.000	91778	0.005000	0.005094	
						RPD = 4.43	
27 Endosulfan II							
1	5.593	5.590	0.003	164627	0.005000	0.004553	
2	6.457	6.457	0.000	107295	0.005000	0.004905	
						RPD = 7.45	
28 4,4'-DDT							
1	5.733	5.730	0.003	150384	0.005000	0.004981	
2	6.657	6.657	0.000	78071	0.005000	0.005216	
						RPD = 4.62	
29 Endrin aldehyde							
1	6.027	6.023	0.004	145766	0.005000	0.004712	
2	6.800	6.803	-0.003	84354	0.005000	0.004904	
						RPD = 4.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	74988	0.005000	0.004813	
2	7.343	7.347	-0.004	37096	0.005000	0.005212	
						RPD = 7.95	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	157455	0.005000	0.004732	
2	7.083	7.087	-0.004	91315	0.005000	0.004964	
						RPD = 4.79	
33 Endrin ketone							
1	6.760	6.757	0.003	178126	0.005000	0.004701	
2	7.633	7.637	-0.004	96843	0.005000	0.005034	
						RPD = 6.84	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	152247	0.005000	0.004883	
2	8.833	8.837	-0.004	85605	0.005000	0.004922	
						RPD = 0.79	
S 1 BHC, Total							
1						0.0197	
2						0.0199	
						RPD = 0.89	

Reagents:

pest_cal_.005_00017	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

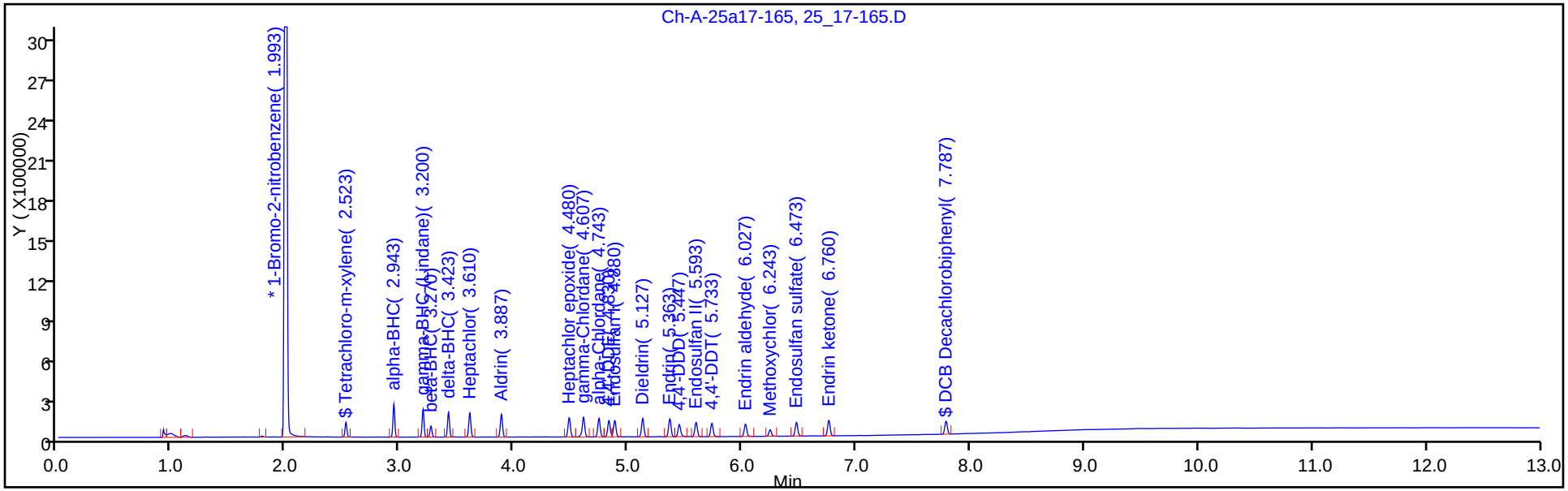
Report Date: 21-Jul-2017 07:04:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

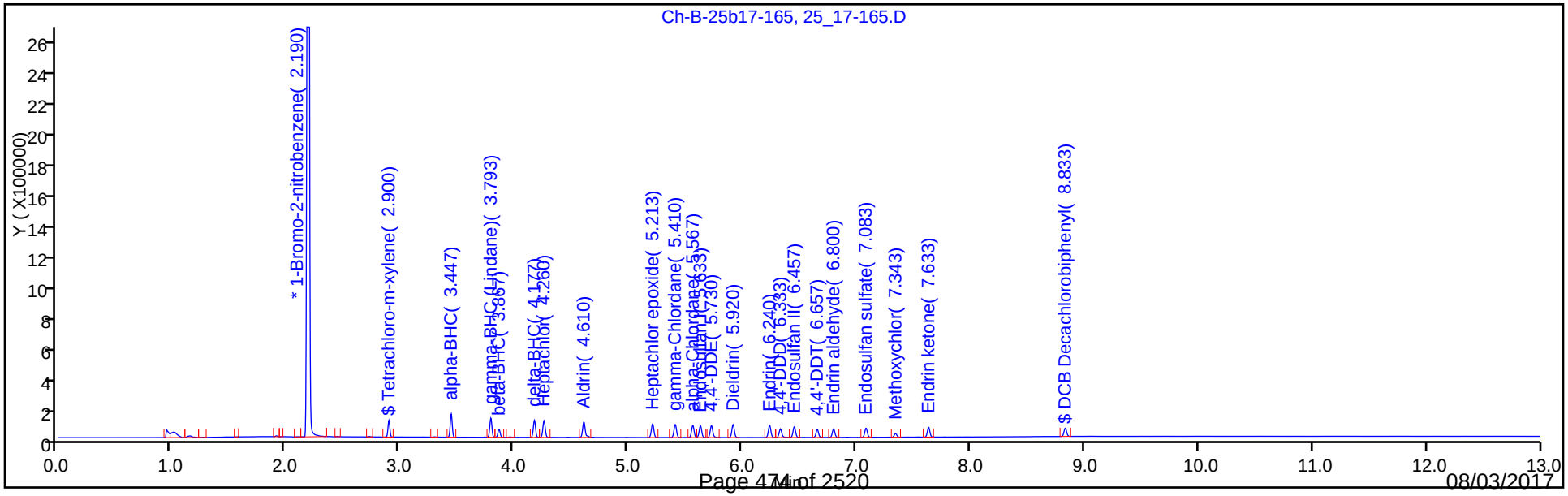
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D

Injection Date:	20-Jul-2017 12:42:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	40
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.7074	1.8589	2.1523	2.0681	2.0049	Lin1	-0.002	2.0639							0.9990		0.9900
gamma-BHC (Lindane)	1.4941	1.5649	1.8147	1.7595	1.7345	Lin1	-0.001	1.7683							0.9990		0.9900
beta-BHC	0.6548	0.6845	0.7598	0.7450	0.7346	Lin1	0	0.7463							1.0000		0.9900
delta-BHC	1.4134	1.5770	1.8602	1.8172	1.7824	Lin1	-0.002	1.8253							0.9990		0.9900
Heptachlor	1.4662	1.5622	1.7291	1.6353	1.5681	Lin1	0	1.6197							0.9980		0.9900
Aldrin	1.4945	1.5114	1.6951	1.6236	1.5648	Lin1	0	1.6086							0.9990		0.9900
Heptachlor epoxide	1.2484	1.2776	1.4085	1.3370	1.2941	Lin1	0	1.3282							0.9990		0.9900
gamma-Chlordane	1.2123	1.3138	1.5230	1.4813	1.4445	Lin1	-0.001	1.4811							0.9990		0.9900
alpha-Chlordane	1.1279	1.1642	1.3395	1.3211	1.3176	Lin1	-0.001	1.3329							1.0000		0.9900
Endosulfan I	1.0928	1.1443	1.2585	1.1989	1.1553	Lin1	0	1.1886							0.9990		0.9900
4,4'-DDE	1.1325	1.2210	1.4254	1.3919	1.3537	Lin1	-0.001	1.3894							0.9990		0.9900
Dieldrin	1.1946	1.2861	1.4599	1.3985	1.3518	Lin1	-0.001	1.3919							0.9990		0.9900
Endrin	1.1222	1.1891	1.3410	1.2872	1.2442	Lin1	-0.001	1.2797							0.9990		0.9900
4,4'-DDD	0.8634	0.9146	1.0948	1.0831	1.0610	Lin1	-0.001	1.0848							1.0000		0.9900
Endosulfan II	1.0093	1.0481	1.1579	1.1205	1.0828	Lin1	0	1.1108							0.9990		0.9900
4,4'-DDT	0.7344	0.8317	1.0809	1.0957	1.0830	Lin1	-0.002	1.1065							1.0000		0.9900
Endrin aldehyde	0.7935	0.8195	0.8845	0.8632	0.8342	Lin1	0	0.8538							0.9990		0.9900
Endosulfan sulfate	0.8590	0.8992	0.9905	0.9792	0.9496	Lin1	-0.001	0.9708							0.9990		0.9900
Methoxychlor	0.3490	0.3875	0.4736	0.4859	0.4843	Lin1	-0.001	0.4908							1.0000		0.9900
Endrin ketone	0.9110	0.9708	1.1131	1.1066	1.0815	Lin1	-0.001	1.1042							1.0000		0.9900
Tetrachloro-m-xylene	1.1695	1.2034	1.3390	1.2863	1.2498	Lin1	0	1.2800							0.9990		0.9900
DCB Decachlorobiphenyl	0.8053	0.8013	0.8274	0.8045	0.7893	Lin1	0.0001	0.7994							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Lin1	181501	382657	2205389	4327895	6086395	0.00500	0.0100	0.0500	0.100	0.150
gamma-BHC (Lindane)	BNB	Lin1	158826	322126	1859476	3682220	5265318	0.00500	0.0100	0.0500	0.100	0.150
beta-BHC	BNB	Lin1	69609	140907	778546	1559143	2230068	0.00500	0.0100	0.0500	0.100	0.150
delta-BHC	BNB	Lin1	150253	324630	1906142	3802962	5410855	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor	BNB	Lin1	155864	321573	1771775	3422261	4760376	0.00500	0.0100	0.0500	0.100	0.150
Aldrin	BNB	Lin1	158874	311120	1736921	3397671	4750207	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor epoxide	BNB	Lin1	132707	262983	1443231	2797907	3928434	0.00500	0.0100	0.0500	0.100	0.150
gamma-Chlordane	BNB	Lin1	128866	270450	1560556	3099952	4385102	0.00500	0.0100	0.0500	0.100	0.150
alpha-Chlordane	BNB	Lin1	119899	239641	1372547	2764770	3999723	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan I	BNB	Lin1	116164	235549	1289575	2509064	3507119	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDE	BNB	Lin1	120388	251350	1460600	2912946	4109303	0.00500	0.0100	0.0500	0.100	0.150
Dieldrin	BNB	Lin1	126988	264749	1495948	2926621	4103709	0.00500	0.0100	0.0500	0.100	0.150
Endrin	BNB	Lin1	119295	244764	1374103	2693818	3776963	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDD	BNB	Lin1	91778	188277	1121860	2266556	3220941	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan II	BNB	Lin1	107295	215751	1186491	2344792	3286959	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDT	BNB	Lin1	78071	171206	1107622	2292895	3287650	0.00500	0.0100	0.0500	0.100	0.150
Endrin aldehyde	BNB	Lin1	84354	168699	906360	1806433	2532436	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan sulfate	BNB	Lin1	91315	185100	1014907	2049266	2882717	0.00500	0.0100	0.0500	0.100	0.150
Methoxychlor	BNB	Lin1	37096	79767	485319	1016763	1470298	0.00500	0.0100	0.0500	0.100	0.150
Endrin ketone	BNB	Lin1	96843	199838	1140583	2315790	3283127	0.00500	0.0100	0.0500	0.100	0.150
Tetrachloro-m-xylene	BNB	Lin1	124318	247727	1372006	2691792	3794119	0.00500	0.0100	0.0500	0.100	0.150
DCB Decachlorobiphenyl	BNB	Lin1	85605	164949	847819	1683638	2396070	0.00500	0.0100	0.0500	0.100	0.150

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jul-2017 11:23:55 ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:06 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14021348	0.5000	0.5000	
2	2.200	2.190	0.010	10118948	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.527	2.520	0.007	4195356	0.1500	0.1531	
2	2.913	2.900	0.013	3794119	0.1500	0.1468	
						RPD = 4.16	
6 alpha-BHC							
1	2.950	2.943	0.007	8712119	0.1500	0.1462	
2	3.460	3.447	0.013	6086395	0.1500	0.1465	
						RPD = 0.16	
7 gamma-BHC (Lindane)							
1	3.207	3.197	0.010	7755592	0.1500	0.1465	
2	3.810	3.793	0.017	5265318	0.1500	0.1479	
						RPD = 0.95	
8 beta-BHC							
1	3.277	3.267	0.010	3117547	0.1500	0.1498	
2	3.880	3.863	0.017	2230068	0.1500	0.1483	
						RPD = 1.04	
9 delta-BHC							
1	3.430	3.420	0.010	7775718	0.1500	0.1473	
2	4.190	4.177	0.013	5410855	0.1500	0.1476	
						RPD = 0.16	
11 Heptachlor							
1	3.617	3.607	0.010	6601656	0.1500	0.1443	
2	4.277	4.260	0.017	4760376	0.1500	0.1455	
						RPD = 0.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.893	3.887	0.006	6839396	0.1500	0.1451	
2	4.627	4.610	0.017	4750207	0.1500	0.1462	
						RPD = 0.77	
14 Heptachlor epoxide							
1	4.490	4.480	0.010	5736978	0.1500	0.1446	
2	5.230	5.213	0.017	3928434	0.1500	0.1463	
						RPD = 1.21	
16 gamma-Chlordane							
1	4.613	4.607	0.006	6821947	0.1500	0.1466	
2	5.427	5.413	0.014	4385102	0.1500	0.1472	
						RPD = 0.36	
17 alpha-Chlordane							
1	4.750	4.740	0.010	6440908	0.1500	0.1467	
2	5.580	5.567	0.013	3999723	0.1500	0.1492	
						RPD = 1.63	
18 4,4'-DDE							
1	4.833	4.823	0.010	6333464	0.1500	0.1463	
2	5.740	5.727	0.013	4109303	0.1500	0.1470	
						RPD = 0.50	
19 Endosulfan I							
1	4.887	4.877	0.010	5241380	0.1500	0.1449	
2	5.647	5.633	0.014	3507119	0.1500	0.1460	
						RPD = 0.75	
21 Dieldrin							
1	5.133	5.123	0.010	5961510	0.1500	0.1458	
2	5.933	5.920	0.013	4103709	0.1500	0.1463	
						RPD = 0.33	
23 Endrin							
1	5.370	5.360	0.010	5580089	0.1500	0.1443	
2	6.253	6.240	0.013	3776963	0.1500	0.1463	
						RPD = 1.41	
24 4,4'-DDD							
1	5.447	5.440	0.007	5131521	0.1500	0.1460	
2	6.347	6.333	0.014	3220941	0.1500	0.1478	
						RPD = 1.21	
27 Endosulfan II							
1	5.600	5.590	0.010	4988199	0.1500	0.1448	
2	6.470	6.457	0.013	3286959	0.1500	0.1466	
						RPD = 1.25	
28 4,4'-DDT							
1	5.737	5.730	0.007	5535921	0.1500	0.1468	
2	6.670	6.657	0.013	3287650	0.1500	0.1487	
						RPD = 1.31	
29 Endrin aldehyde							
1	6.033	6.023	0.010	4025863	0.1500	0.1454	
2	6.817	6.803	0.014	2532436	0.1500	0.1468	
						RPD = 0.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.247	6.240	0.007	2379153	0.1500	0.1466	
2	7.357	7.347	0.010	1470298	0.1500	0.1497	
						RPD = 2.08	
32 Endosulfan sulfate							
1	6.480	6.470	0.010	4501001	0.1500	0.1452	
2	7.100	7.087	0.013	2882717	0.1500	0.1473	
						RPD = 1.38	
33 Endrin ketone							
1	6.763	6.757	0.006	5238606	0.1500	0.1452	
2	7.650	7.637	0.013	3283127	0.1500	0.1478	
						RPD = 1.78	
$ 34 DCB Decachlorobiphenyl							
1	7.793	7.787	0.006	4201416	0.1500	0.1473	
2	8.850	8.837	0.013	2396070	0.1500	0.1480	
						RPD = 0.46	
S 1 BHC, Total							
1						0.5899	
2						0.5902	
						RPD = 0.05	

Reagents:

PEST_CAL_.15_00024	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

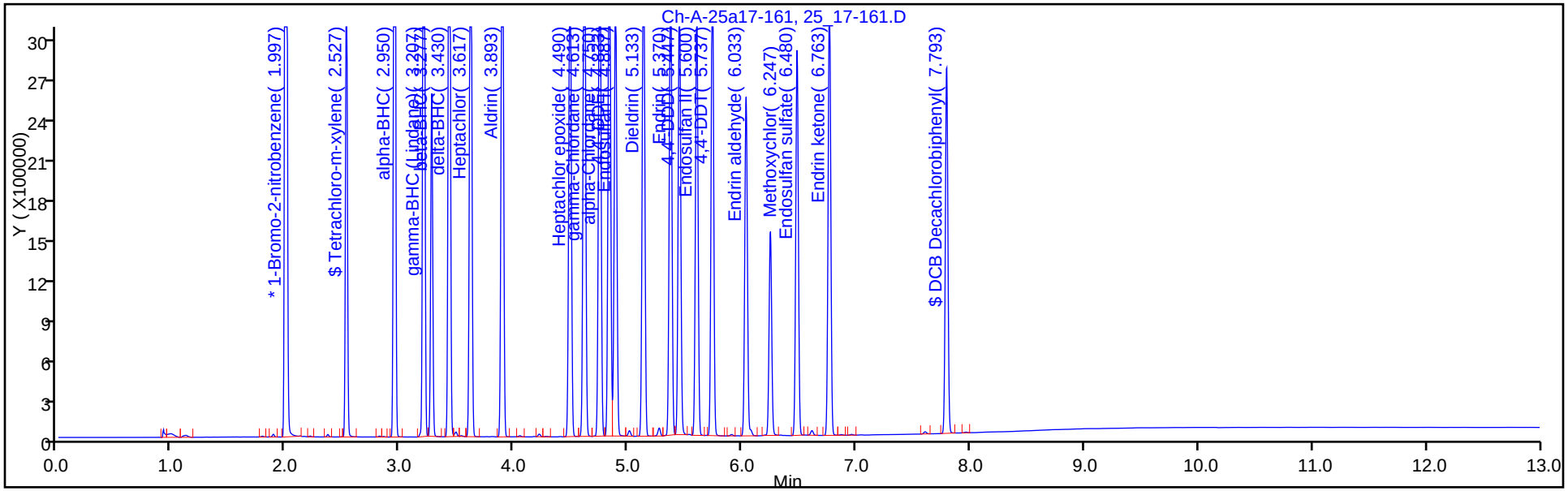
Report Date: 21-Jul-2017 07:04:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

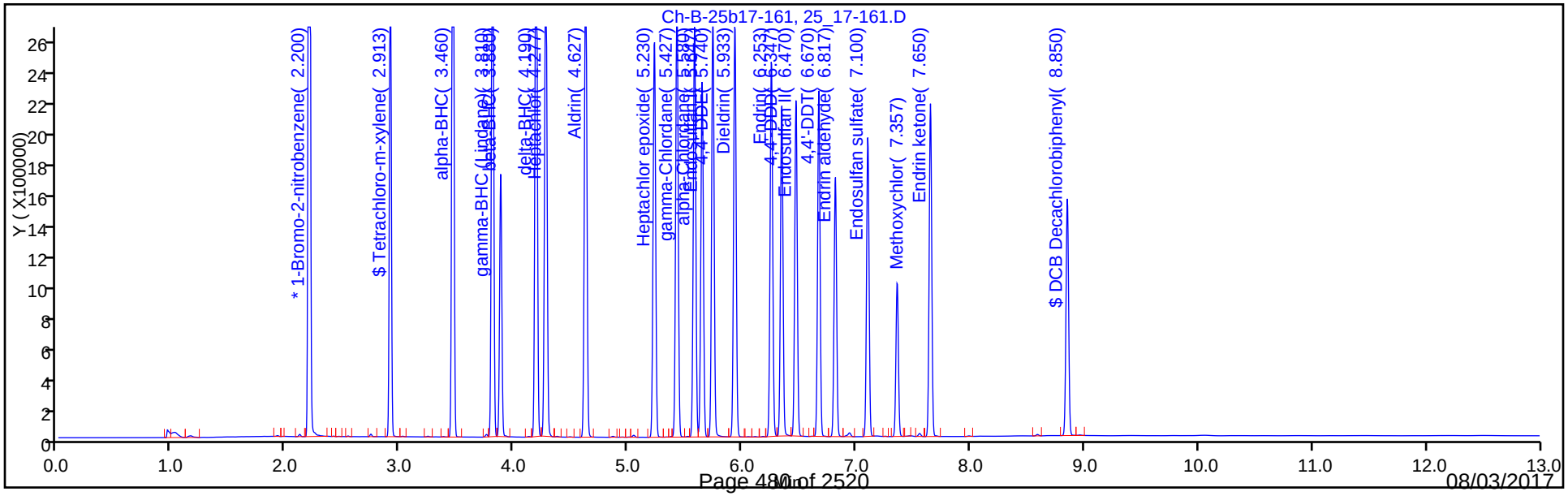
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D

Injection Date:	20-Jul-2017 11:23:55	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	36
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jul-2017 11:43:38 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:09 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14590133	0.5000	0.5000	
2	2.197	2.190	0.007	10463611	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	2760769	0.1000	0.0972	
2	2.907	2.900	0.007	2691792	0.1000	0.1008	
						RPD = 3.70	
6 alpha-BHC							
1	2.947	2.943	0.004	6238209	0.1000	0.1008	
2	3.453	3.447	0.006	4327895	0.1000	0.1010	
						RPD = 0.14	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	5534975	0.1000	0.1007	
2	3.800	3.793	0.007	3682220	0.1000	0.1003	
						RPD = 0.38	
8 beta-BHC							
1	3.270	3.267	0.003	2145019	0.1000	0.0993	
2	3.873	3.863	0.010	1559143	0.1000	0.1004	
						RPD = 1.19	
9 delta-BHC							
1	3.427	3.420	0.007	5491533	0.1000	0.1003	
2	4.183	4.177	0.006	3802962	0.1000	0.1007	
						RPD = 0.34	
11 Heptachlor							
1	3.613	3.607	0.006	4814374	0.1000	0.1011	
2	4.270	4.260	0.010	3422261	0.1000	0.1012	
						RPD = 0.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.890	3.887	0.003	4953087	0.1000	0.1010	
2	4.620	4.610	0.010	3397671	0.1000	0.1012	
						RPD = 0.18	
14 Heptachlor epoxide							
1	4.483	4.480	0.003	4172576	0.1000	0.1009	
2	5.223	5.213	0.010	2797907	0.1000	0.1008	
						RPD = 0.07	
16 gamma-Chlordane							
1	4.610	4.607	0.003	4882487	0.1000	0.1010	
2	5.420	5.413	0.007	3099952	0.1000	0.1009	
						RPD = 0.09	
17 alpha-Chlordane							
1	4.747	4.740	0.007	4594368	0.1000	0.1008	
2	5.577	5.567	0.010	2764770	0.1000	0.1000	
						RPD = 0.75	
18 4,4'-DDE							
1	4.830	4.823	0.007	4529294	0.1000	0.1008	
2	5.737	5.727	0.010	2912946	0.1000	0.1011	
						RPD = 0.25	
19 Endosulfan I							
1	4.883	4.877	0.006	3793793	0.1000	0.1007	
2	5.643	5.633	0.010	2509064	0.1000	0.1011	
						RPD = 0.35	
21 Dieldrin							
1	5.130	5.123	0.007	4278445	0.1000	0.1006	
2	5.930	5.920	0.010	2926621	0.1000	0.1010	
						RPD = 0.45	
23 Endrin							
1	5.367	5.360	0.007	4072224	0.1000	0.1011	
2	6.250	6.240	0.010	2693818	0.1000	0.1011	
						RPD = 0.01	
24 4,4'-DDD							
1	5.443	5.440	0.003	3684876	0.1000	0.1011	
2	6.340	6.333	0.007	2266556	0.1000	0.1010	
						RPD = 0.12	
27 Endosulfan II							
1	5.597	5.590	0.007	3620892	0.1000	0.1010	
2	6.467	6.457	0.010	2344792	0.1000	0.1012	
						RPD = 0.23	
28 4,4'-DDT							
1	5.733	5.730	0.003	3945220	0.1000	0.1009	
2	6.667	6.657	0.010	2292895	0.1000	0.1009	
						RPD = 0.00	
29 Endrin aldehyde							
1	6.030	6.023	0.007	2920853	0.1000	0.1013	
2	6.810	6.803	0.007	1806433	0.1000	0.1014	
						RPD = 0.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	1698697	0.1000	0.1007	
2	7.353	7.347	0.006	1016763	0.1000	0.1006	
						RPD = 0.08	
32 Endosulfan sulfate							
1	6.477	6.470	0.007	3275755	0.1000	0.1016	
2	7.097	7.087	0.010	2049266	0.1000	0.1014	
						RPD = 0.15	
33 Endrin ketone							
1	6.760	6.757	0.003	3797484	0.1000	0.1012	
2	7.647	7.637	0.010	2315790	0.1000	0.1011	
						RPD = 0.05	
$ 34 DCB Decachlorobiphenyl							
1	7.790	7.787	0.003	2988955	0.1000	0.1007	
2	8.847	8.837	0.010	1683638	0.1000	0.1005	
						RPD = 0.13	
S 1 BHC, Total							
1						0.4011	
2						0.4024	
						RPD = 0.32	

Reagents:

PEST_CAL_.10_00026	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

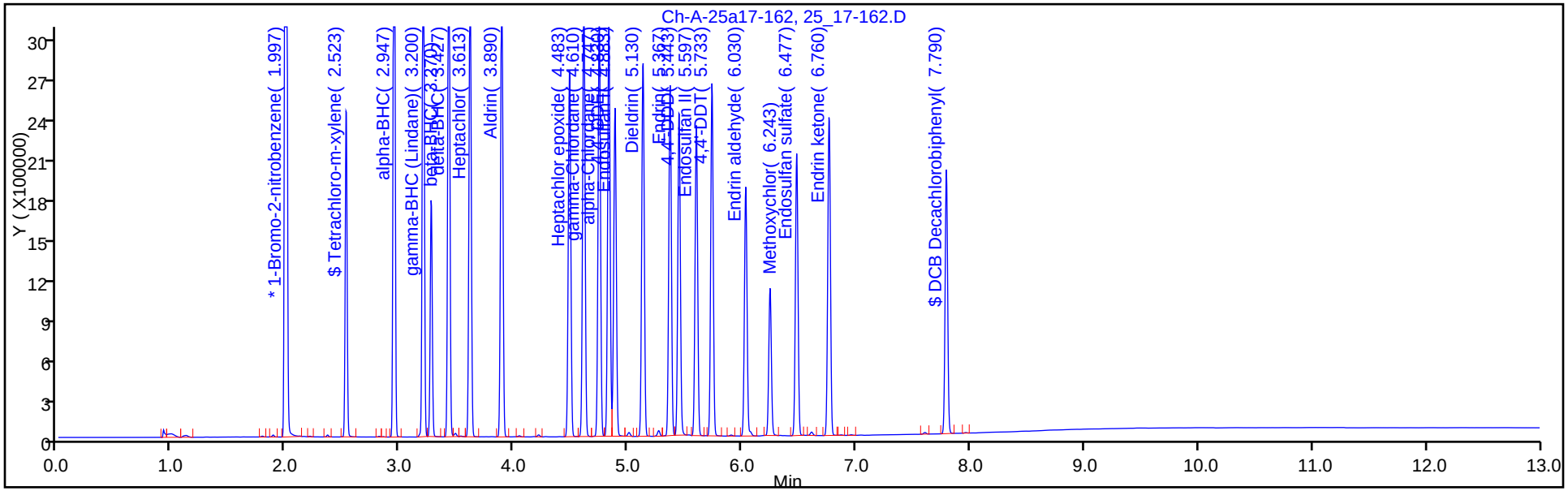
Report Date: 21-Jul-2017 07:04:10 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

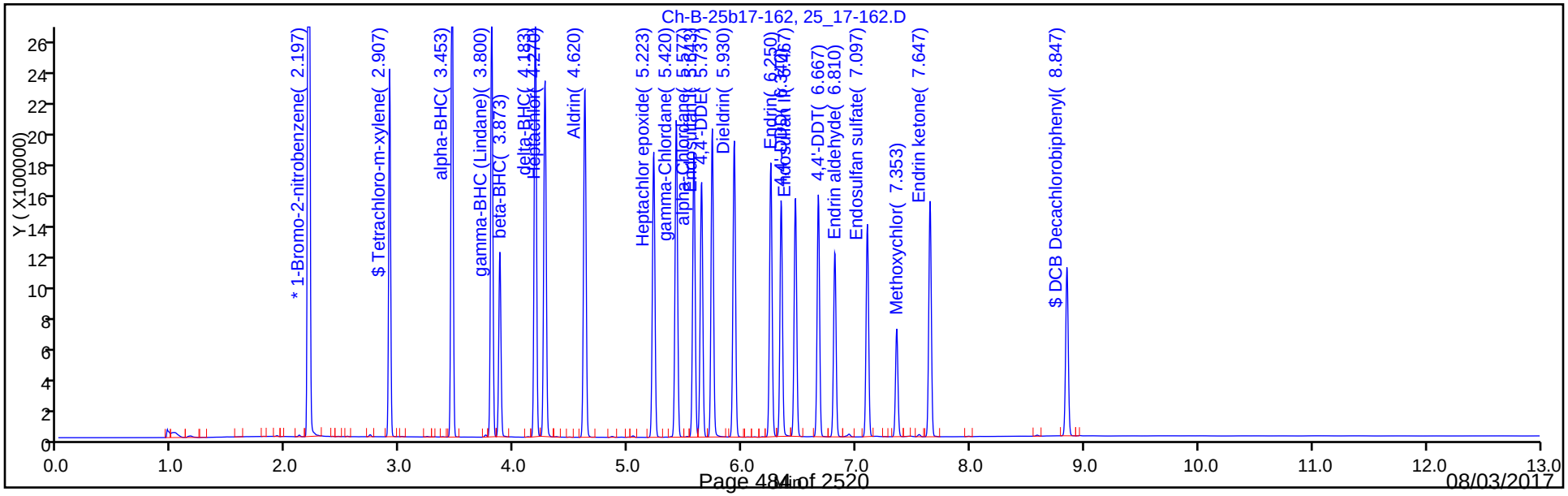
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D

Injection Date:	20-Jul-2017 11:43:38	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D
Lims ID: std3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 20-Jul-2017 12:03:16 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 09:09:49 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:50:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14306926	0.5000	0.5000	
2	2.190	2.190	0.000	10246784	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.520	0.000	1377925	0.0500	0.0500	
2	2.900	2.900	0.000	1372006	0.0500	0.0527	
						RPD = 5.20	
6 alpha-BHC							
1	2.943	2.943	0.000	3213244	0.0500	0.0532	
2	3.447	3.447	0.000	2205389	0.0500	0.0529	
						RPD = 0.65	
7 gamma-BHC (Lindane)							
1	3.197	3.197	0.000	2847000	0.0500	0.0531	
2	3.793	3.793	0.000	1859476	0.0500	0.0521	
						RPD = 1.88	
8 beta-BHC							
1	3.267	3.267	0.000	1078766	0.0500	0.0512	
2	3.863	3.863	0.000	778546	0.0500	0.0515	
						RPD = 0.63	
9 delta-BHC							
1	3.420	3.420	0.000	2800164	0.0500	0.0526	
2	4.177	4.177	0.000	1906142	0.0500	0.0521	
						RPD = 1.10	
11 Heptachlor							
1	3.607	3.607	0.000	2571235	0.0500	0.0550	
2	4.260	4.260	0.000	1771775	0.0500	0.0536	
						RPD = 2.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	2601768	0.0500	0.0542	
2	4.610	4.610	0.000	1736921	0.0500	0.0530	
						RPD = 2.32	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	2231095	0.0500	0.0548	
2	5.213	5.213	0.000	1443231	0.0500	0.0532	
						RPD = 3.01	
16 gamma-Chlordane							
1	4.607	4.607	0.000	2493727	0.0500	0.0528	
2	5.413	5.413	0.000	1560556	0.0500	0.0523	
						RPD = 0.93	
17 alpha-Chlordane							
1	4.740	4.740	0.000	2351663	0.0500	0.0528	
2	5.567	5.567	0.000	1372547	0.0500	0.0511	
						RPD = 3.30	
18 4,4'-DDE							
1	4.823	4.823	0.000	2326143	0.0500	0.0532	
2	5.727	5.727	0.000	1460600	0.0500	0.0522	
						RPD = 1.96	
19 Endosulfan I							
1	4.877	4.877	0.000	2017014	0.0500	0.0545	
2	5.633	5.633	0.000	1289575	0.0500	0.0532	
						RPD = 2.48	
21 Dieldrin							
1	5.123	5.123	0.000	2247573	0.0500	0.0540	
2	5.920	5.920	0.000	1495948	0.0500	0.0530	
						RPD = 1.76	
23 Endrin							
1	5.360	5.360	0.000	2175102	0.0500	0.0549	
2	6.240	6.240	0.000	1374103	0.0500	0.0529	
						RPD = 3.78	
24 4,4'-DDD							
1	5.440	5.440	0.000	1887017	0.0500	0.0532	
2	6.333	6.333	0.000	1121860	0.0500	0.0516	
						RPD = 3.18	
27 Endosulfan II							
1	5.590	5.590	0.000	1912808	0.0500	0.0544	
2	6.457	6.457	0.000	1186491	0.0500	0.0525	
						RPD = 3.63	
28 4,4'-DDT							
1	5.730	5.730	0.000	1997848	0.0500	0.0527	
2	6.657	6.657	0.000	1107622	0.0500	0.0507	
						RPD = 3.81	
29 Endrin aldehyde							
1	6.023	6.023	0.000	1519646	0.0500	0.0536	
2	6.803	6.803	0.000	906360	0.0500	0.0521	
						RPD = 2.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	871432	0.0500	0.0529	
2	7.347	7.347	0.000	485319	0.0500	0.0499	
						RPD = 5.85	
32 Endosulfan sulfate							
1	6.470	6.470	0.000	1691547	0.0500	0.0534	
2	7.087	7.087	0.000	1014907	0.0500	0.0516	
						RPD = 3.61	
33 Endrin ketone							
1	6.757	6.757	0.000	1982962	0.0500	0.0539	
2	7.637	7.637	0.000	1140583	0.0500	0.0513	
						RPD = 4.90	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	1523655	0.0500	0.0522	
2	8.837	8.837	0.000	847819	0.0500	0.0516	
						RPD = 1.17	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

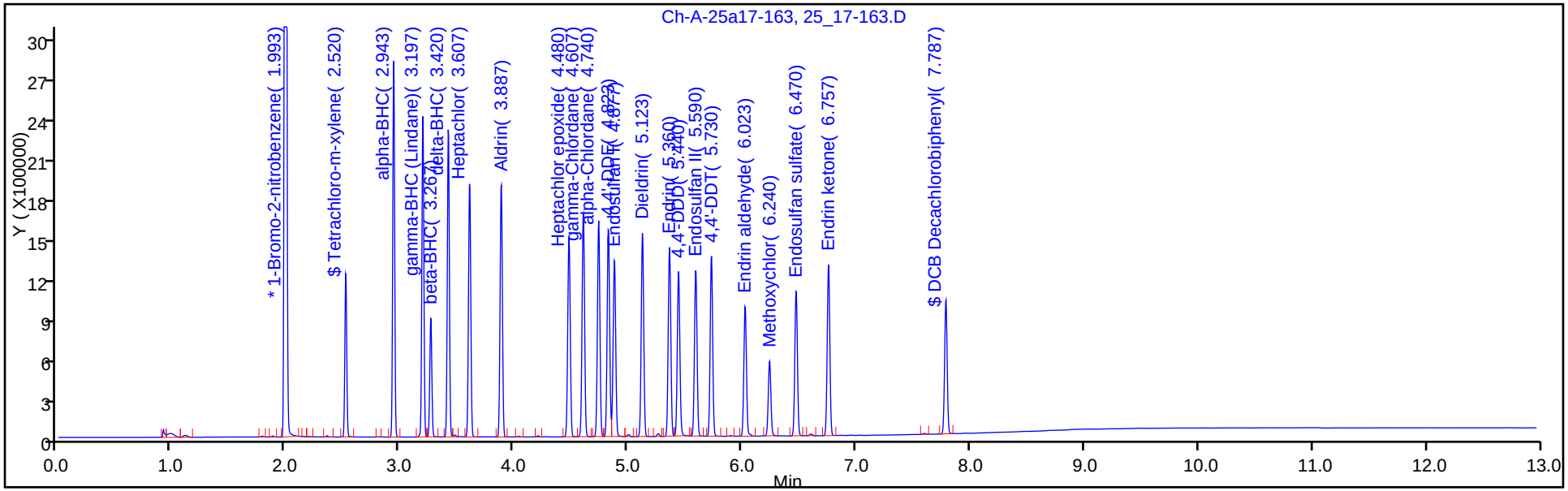
Report Date: 21-Jul-2017 09:09:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

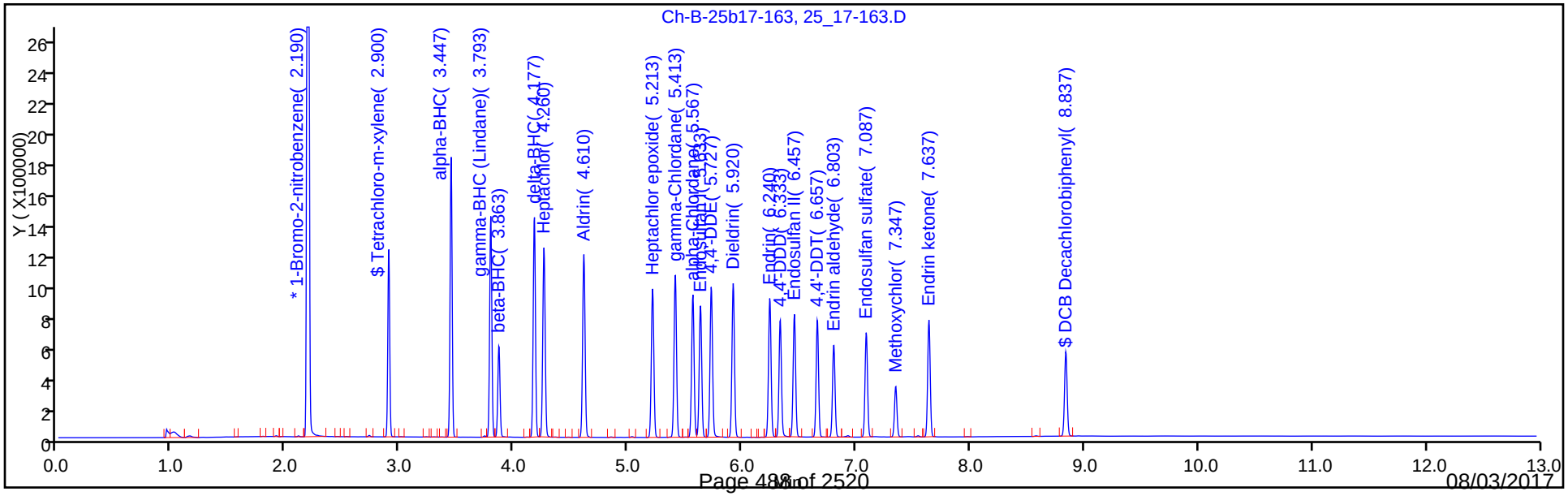
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D

Injection Date:	20-Jul-2017 12:03:16	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jul-2017 12:22:49 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:11 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14421304	0.5000	0.5000	
2	2.190	2.190	0.000	10292415	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	238484	0.0100	0.009465	
2	2.900	2.900	0.000	247727	0.0100	0.009755	
						RPD = 3.01	
6 alpha-BHC							
1	2.943	2.943	0.000	568795	0.0100	0.009848	
2	3.447	3.447	0.000	382657	0.0100	0.009767	
						RPD = 0.83	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	505210	0.0100	0.009840	
2	3.793	3.793	0.000	322126	0.0100	0.009646	
						RPD = 1.99	
8 beta-BHC							
1	3.270	3.267	0.003	194226	0.0100	0.009622	
2	3.867	3.863	0.004	140907	0.0100	0.009780	
						RPD = 1.62	
9 delta-BHC							
1	3.423	3.420	0.003	482768	0.0100	0.009807	
2	4.177	4.177	0.000	324630	0.0100	0.009740	
						RPD = 0.68	
11 Heptachlor							
1	3.610	3.607	0.003	483523	0.0100	0.0101	
2	4.260	4.260	0.000	321573	0.0100	0.009897	
						RPD = 1.91	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	473477	0.0100	0.0100	
2	4.610	4.610	0.000	311120	0.0100	0.009679	
						RPD = 2.87	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	431108	0.0100	0.0101	
2	5.213	5.213	0.000	262983	0.0100	0.009787	
						RPD = 3.58	
16 gamma-Chlordane							
1	4.607	4.607	0.000	447907	0.0100	0.009701	
2	5.413	5.413	0.000	270450	0.0100	0.009734	
						RPD = 0.34	
17 alpha-Chlordane							
1	4.740	4.740	0.000	418316	0.0100	0.009754	
2	5.567	5.567	0.000	239641	0.0100	0.009613	
						RPD = 1.46	
18 4,4'-DDE							
1	4.827	4.823	0.004	396422	0.0100	0.009736	
2	5.727	5.727	0.000	251350	0.0100	0.009691	
						RPD = 0.46	
19 Endosulfan I							
1	4.880	4.877	0.003	389280	0.0100	0.0102	
2	5.633	5.633	0.000	235549	0.0100	0.009860	
						RPD = 3.77	
21 Dieldrin							
1	5.127	5.123	0.004	410766	0.0100	0.0099	
2	5.920	5.920	0.000	264749	0.0100	0.009813	
						RPD = 1.00	
23 Endrin							
1	5.363	5.360	0.003	411532	0.0100	0.0101	
2	6.240	6.240	0.000	244764	0.0100	0.009790	
						RPD = 2.73	
24 4,4'-DDD							
1	5.443	5.440	0.003	320289	0.0100	0.009761	
2	6.333	6.333	0.000	188277	0.0100	0.009546	
						RPD = 2.23	
27 Endosulfan II							
1	5.593	5.590	0.003	362479	0.0100	0.0103	
2	6.457	6.457	0.000	215751	0.0100	0.009798	
						RPD = 4.60	
28 4,4'-DDT							
1	5.730	5.730	0.000	327862	0.0100	0.009620	
2	6.657	6.657	0.000	171206	0.0100	0.009414	
						RPD = 2.17	
29 Endrin aldehyde							
1	6.023	6.023	0.000	293235	0.0100	0.0100	
2	6.800	6.803	-0.003	168699	0.0100	0.009856	
						RPD = 1.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	158894	0.0100	0.0099	
2	7.347	7.347	0.000	79767	0.0100	0.009552	
						RPD = 4.03	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	321289	0.0100	0.0100	
2	7.087	7.087	0.000	185100	0.0100	0.009802	
						RPD = 2.07	
33 Endrin ketone							
1	6.757	6.757	0.000	370765	0.0100	0.0100	
2	7.637	7.637	0.000	199838	0.0100	0.009701	
						RPD = 3.24	
$ 34 DCB Decachlorobiphenyl							
1	7.783	7.787	-0.004	295097	0.0100	0.009898	
2	8.837	8.837	0.000	164949	0.0100	0.0099	
						RPD = 0.11	
S 1 BHC, Total							
1						0.0391	
2						0.0389	
						RPD = 0.47	

Reagents:

pest_cal_.01_00017	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added:	10.00	Units: uL	Run Reagent

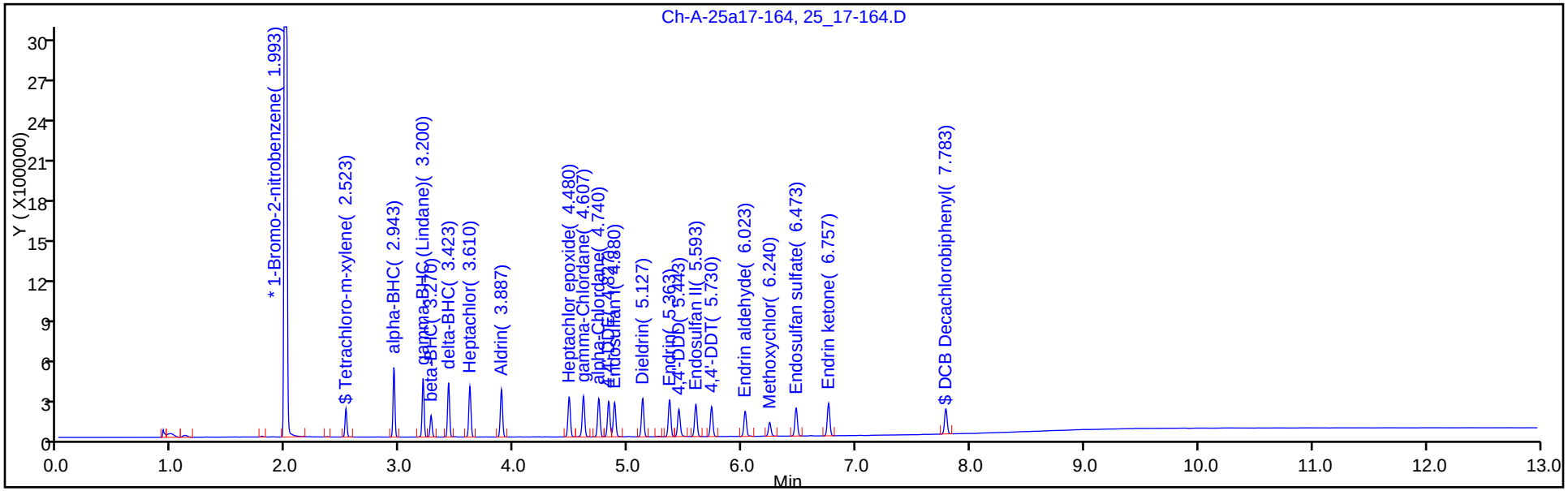
Report Date: 21-Jul-2017 07:04:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

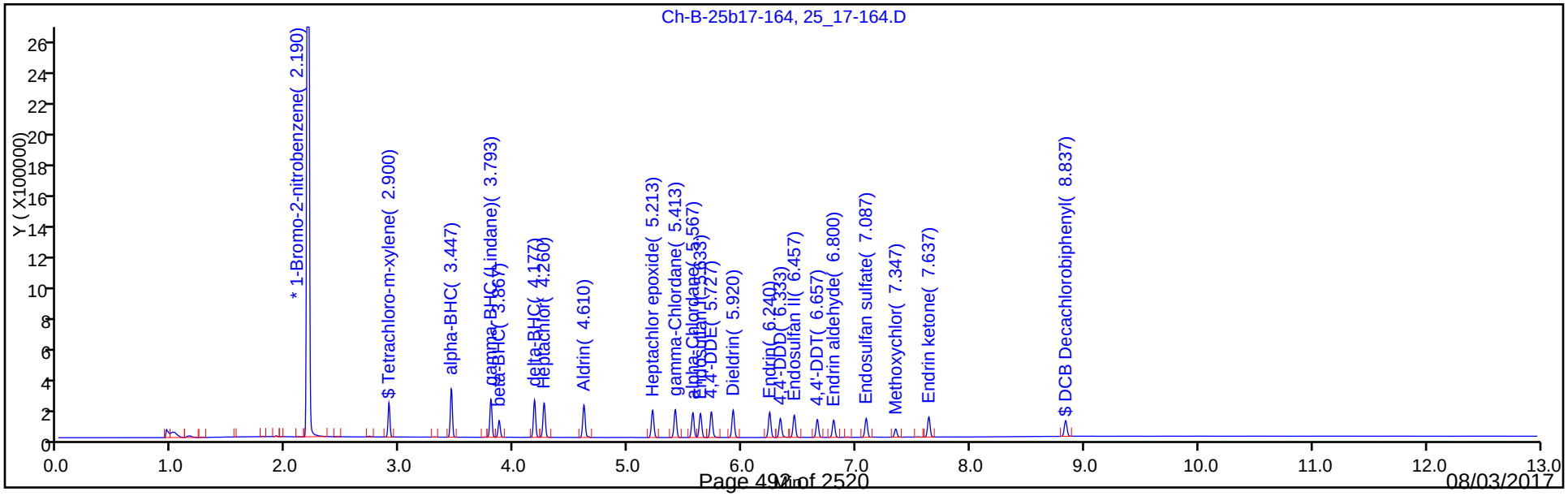
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D

Injection Date:	20-Jul-2017 12:22:49	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Jul-2017 12:42:26 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:13 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:15:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14818153	0.5000	0.5000	
2	2.190	2.190	0.000	10630257	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	123780	0.005000	0.005308	
2	2.900	2.900	0.000	124318	0.005000	0.004921	
						RPD = 7.57	
6 alpha-BHC							
1	2.943	2.943	0.000	267537	0.005000	0.004835	
2	3.447	3.447	0.000	181501	0.005000	0.004896	
						RPD = 1.25	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	238975	0.005000	0.004852	
2	3.793	3.793	0.000	158826	0.005000	0.005021	
						RPD = 3.42	
8 beta-BHC							
1	3.270	3.267	0.003	100012	0.005000	0.005113	
2	3.867	3.863	0.004	69609	0.005000	0.004994	
						RPD = 2.35	
9 delta-BHC							
1	3.423	3.420	0.003	220922	0.005000	0.004906	
2	4.177	4.177	0.000	150253	0.005000	0.004972	
						RPD = 1.33	
11 Heptachlor							
1	3.610	3.607	0.003	231699	0.005000	0.004597	
2	4.260	4.260	0.000	155864	0.005000	0.004778	
						RPD = 3.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	224528	0.005000	0.004710	
2	4.610	4.610	0.000	158874	0.005000	0.004929	
						RPD = 4.54	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	210453	0.005000	0.004583	
2	5.213	5.213	0.000	132707	0.005000	0.004868	
						RPD = 6.04	
16 gamma-Chlordane							
1	4.607	4.607	0.000	225398	0.005000	0.004937	
2	5.410	5.413	-0.003	128866	0.005000	0.004956	
						RPD = 0.39	
17 alpha-Chlordane							
1	4.743	4.740	0.003	204326	0.005000	0.004910	
2	5.567	5.567	0.000	119899	0.005000	0.005109	
						RPD = 3.98	
18 4,4'-DDE							
1	4.830	4.823	0.007	184289	0.005000	0.004890	
2	5.730	5.727	0.003	120388	0.005000	0.004979	
						RPD = 1.79	
19 Endosulfan I							
1	4.880	4.877	0.003	183357	0.005000	0.004561	
2	5.633	5.633	0.000	116164	0.005000	0.004830	
						RPD = 5.73	
21 Dieldrin							
1	5.127	5.123	0.004	199150	0.005000	0.004759	
2	5.920	5.920	0.000	126988	0.005000	0.004864	
						RPD = 2.18	
23 Endrin							
1	5.363	5.360	0.003	200604	0.005000	0.004611	
2	6.240	6.240	0.000	119295	0.005000	0.004883	
						RPD = 5.72	
24 4,4'-DDD							
1	5.447	5.440	0.007	146389	0.005000	0.004873	
2	6.333	6.333	0.000	91778	0.005000	0.005094	
						RPD = 4.43	
27 Endosulfan II							
1	5.593	5.590	0.003	164627	0.005000	0.004553	
2	6.457	6.457	0.000	107295	0.005000	0.004905	
						RPD = 7.45	
28 4,4'-DDT							
1	5.733	5.730	0.003	150384	0.005000	0.004981	
2	6.657	6.657	0.000	78071	0.005000	0.005216	
						RPD = 4.62	
29 Endrin aldehyde							
1	6.027	6.023	0.004	145766	0.005000	0.004712	
2	6.800	6.803	-0.003	84354	0.005000	0.004904	
						RPD = 4.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	74988	0.005000	0.004813	
2	7.343	7.347	-0.004	37096	0.005000	0.005212	
						RPD = 7.95	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	157455	0.005000	0.004732	
2	7.083	7.087	-0.004	91315	0.005000	0.004964	
						RPD = 4.79	
33 Endrin ketone							
1	6.760	6.757	0.003	178126	0.005000	0.004701	
2	7.633	7.637	-0.004	96843	0.005000	0.005034	
						RPD = 6.84	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	152247	0.005000	0.004883	
2	8.833	8.837	-0.004	85605	0.005000	0.004922	
						RPD = 0.79	
S 1 BHC, Total							
1						0.0197	
2						0.0199	
						RPD = 0.89	

Reagents:

pest_cal_.005_00017	Amount Added: 1.00	Units: mL		
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent	

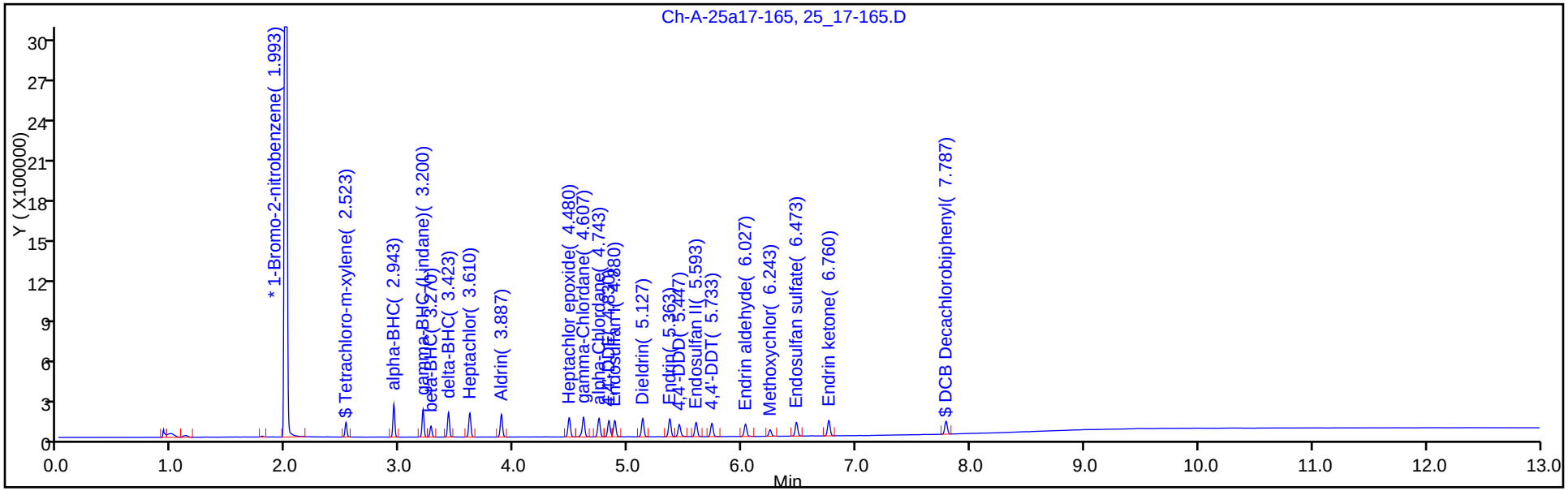
Report Date: 21-Jul-2017 07:04:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

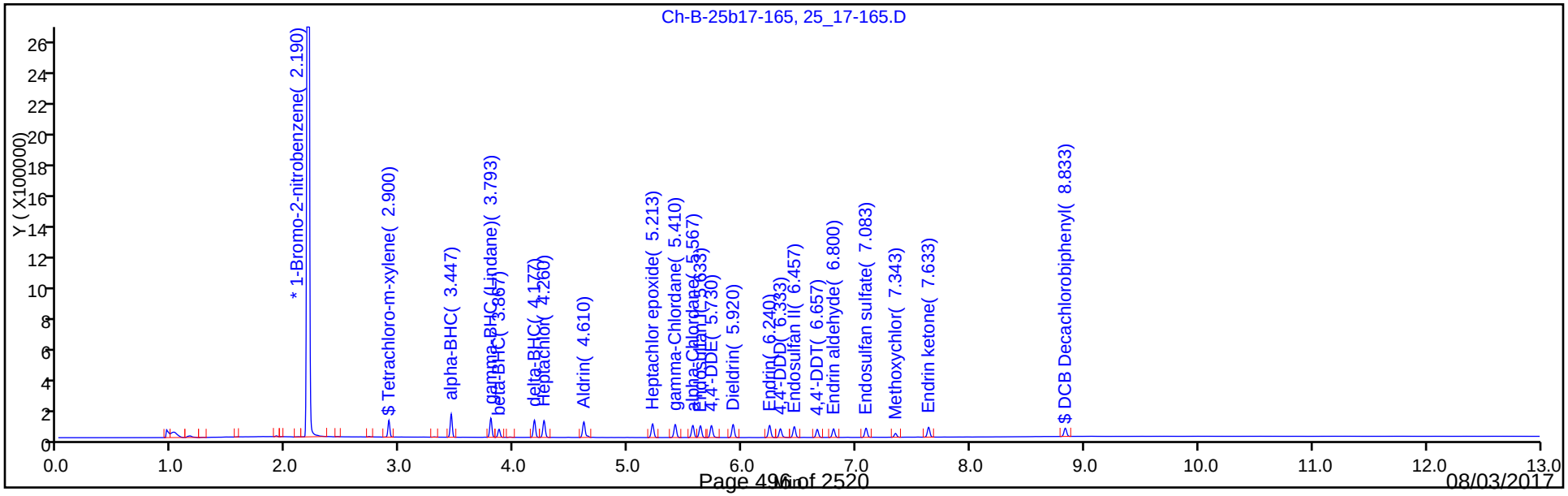
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D

Injection Date:	20-Jul-2017 12:42:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	40
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID (1): PEM 480-368232/6 Instrument ID (1): HP6890-25

GC Column (1): RTX-CLPI ID: 0.53(mm) Date Analyzed (1): 07/22/2017 09:49

ANALYTE	RT	RESOLUTION (%)
Endrin aldehyde		100.0
Tetrachloro-m-xylene	2.52	100.0
alpha-BHC	2.94	100.0
gamma-BHC (Lindane)	3.20	100.0
beta-BHC	3.27	100.0
4,4'-DDE	4.83	100.0
Endrin	5.36	100.0
4,4'-DDD	5.44	100.0
4,4'-DDT	5.73	100.0
Methoxychlor	6.24	100.0
Endrin ketone	6.76	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID (2): PEM 480-368232/6 Instrument ID (2): HP6890-25

GC Column (2): RTX-CLPII ID: 0.53(mm) Date Analyzed (2): 07/22/2017 09:49

ANALYTE	RT	RESOLUTION (%)
Endrin aldehyde		100.0
Tetrachloro-m-xylene	2.90	100.0
alpha-BHC	3.45	100.0
gamma-BHC (Lindane)	3.80	100.0
beta-BHC	3.87	100.0
4,4'-DDE	5.73	100.0
Endrin	6.25	100.0
4,4'-DDD	6.34	100.0
4,4'-DDT	6.66	100.0
Methoxychlor	7.35	100.0
Endrin ketone	7.64	100.0

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: PEM 480-368232/6 Calibration Date: 07/22/2017 09:49

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-178.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	5.36	1750558	0.91	15	
Endrin aldehyde		0			
Endrin ketone	6.76	16038			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	5.73	3479555	0.35	15	
4,4'-DDD	5.44	4541			
4,4'-DDE	4.83	7852			

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-178.D
Lims ID: pem
Client ID:
Sample Type: PEM
Inject. Date: 22-Jul-2017 09:49:09 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub15

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:47:44 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 10:28:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.990	0.003	13553026	0.5000	0.5000	
2	2.193	2.193	0.000	8798940	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.517	0.003	375306	0.0200	0.0151	
2	2.903	2.903	0.000	435767	0.0200	0.0197	
						RPD = 26.23	
6 alpha-BHC							
1	2.940	2.937	0.003	503853	0.0100	0.009317	
2	3.450	3.450	0.000	351980	0.0100	0.0105	
						RPD = 11.47	
7 gamma-BHC (Lindane)							
1	3.197	3.190	0.007	455373	0.0100	0.009462	
2	3.797	3.797	0.000	211242	0.0100	0.007584	
						RPD = 22.03	
8 beta-BHC							
1	3.267	3.260	0.007	116726	0.0100	0.006364	
2	3.870	3.870	0.000	109834	0.0100	0.008970	
						RPD = 34.00	
18 4,4'-DDE							
1	4.827	4.817	0.010	7852		0.001073	
2	5.733	5.733	0.000	7796		0.001222	
						RPD = 13.01	
23 Endrin							
1	5.360	5.357	0.003	1750558	0.0500	0.0466	
2	6.247	6.247	0.000	1280392	0.0500	0.0574	
						RPD = 20.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
24 4,4'-DDD							
1	5.443	5.433	0.010	4541		0.001089	
2	6.343	6.337	0.006	7961		0.001532	
						RPD = 33.74	
28 4,4'-DDT							
1	5.730	5.723	0.007	3479555	0.1000	0.0959	
2	6.663	6.663	0.000	2034374	0.1000	0.1064	
						RPD = 10.38	
30 Methoxychlor							
1	6.240	6.233	0.007	3907642	0.2500	0.2488	E
2	7.350	7.350	0.000	2513883	0.2500	0.2927	E
						RPD = 16.23	
33 Endrin ketone							
1	6.757	6.750	0.007	16038		0.000490	
2	7.643	7.643	0.000	10724		0.001461	
						RPD = 99.53	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.780	0.007	644549	0.0200	0.0232	
2	8.843	8.843	0.000	363904	0.0200	0.0258	
						RPD = 10.29	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PEST_PEM_00142	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

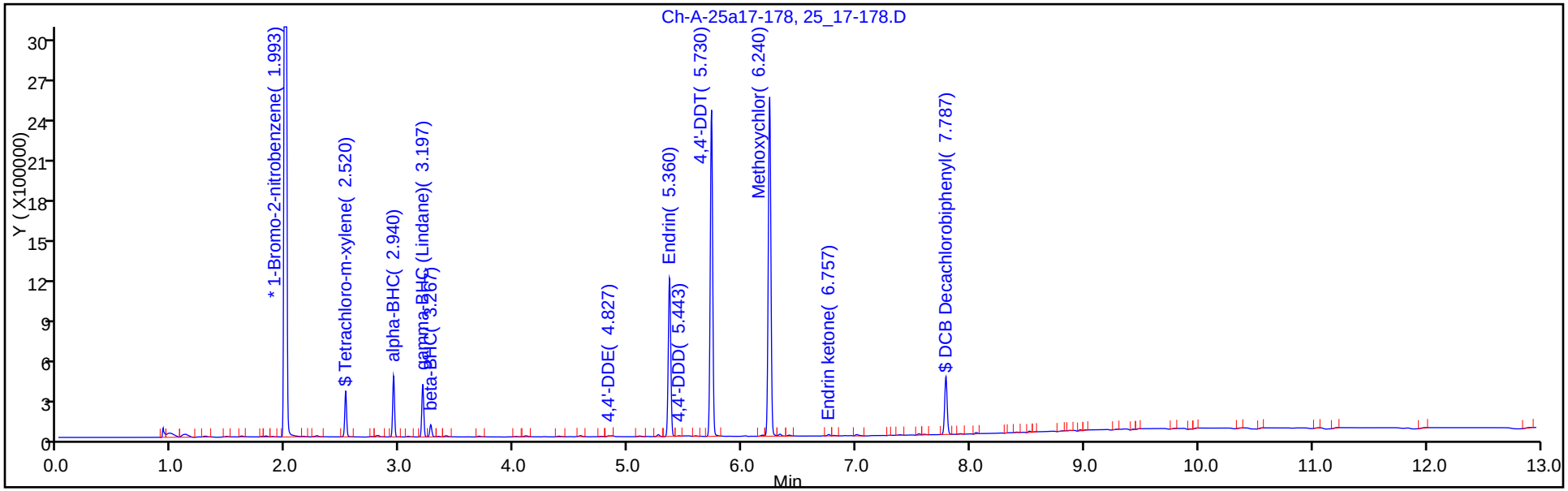
Report Date: 24-Jul-2017 07:47:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

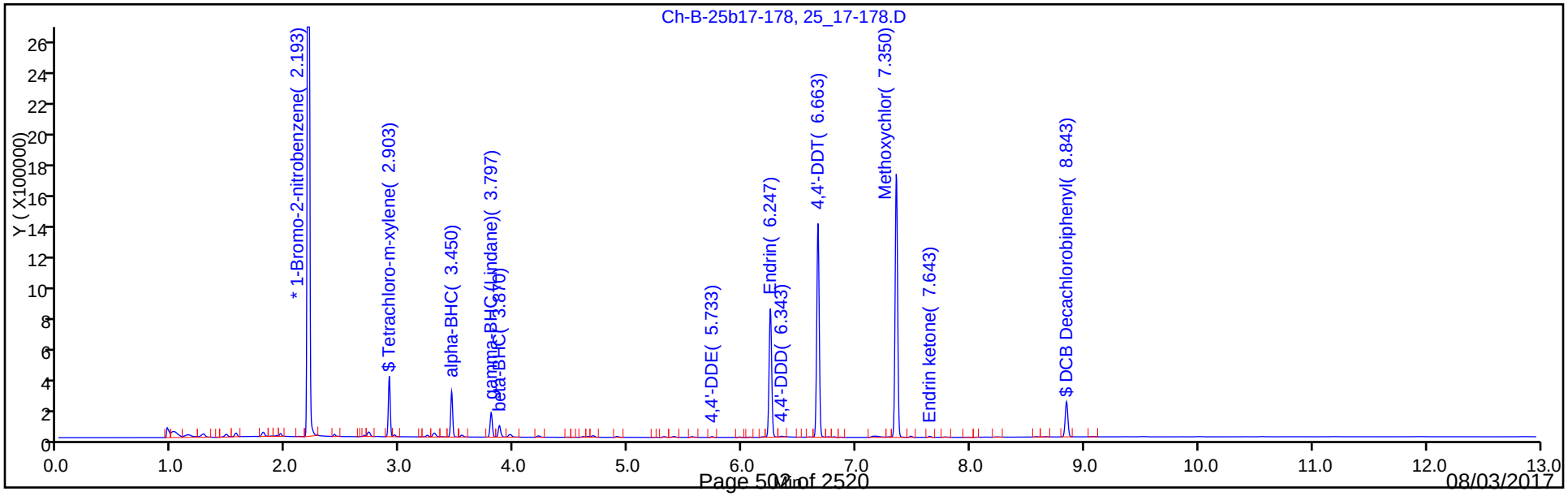
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-178.D

Injection Date:	22-Jul-2017 09:49:09	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	pem			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: PEM 480-368232/6 Calibration Date: 07/22/2017 09:49

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-178.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	6.25	1280392	0.83	15	
Endrin aldehyde		0			
Endrin ketone	7.64	10724			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	6.66	2034374	0.77	15	
4,4'-DDD	6.34	7961			
4,4'-DDE	5.73	7796			

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-178.D
Lims ID: pem
Client ID:
Sample Type: PEM
Inject. Date: 22-Jul-2017 09:49:09 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub15

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:47:44 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 10:28:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.990	0.003	13553026	0.5000	0.5000	
2	2.193	2.193	0.000	8798940	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.517	0.003	375306	0.0200	0.0151	
2	2.903	2.903	0.000	435767	0.0200	0.0197	
						RPD = 26.23	
6 alpha-BHC							
1	2.940	2.937	0.003	503853	0.0100	0.009317	
2	3.450	3.450	0.000	351980	0.0100	0.0105	
						RPD = 11.47	
7 gamma-BHC (Lindane)							
1	3.197	3.190	0.007	455373	0.0100	0.009462	
2	3.797	3.797	0.000	211242	0.0100	0.007584	
						RPD = 22.03	
8 beta-BHC							
1	3.267	3.260	0.007	116726	0.0100	0.006364	
2	3.870	3.870	0.000	109834	0.0100	0.008970	
						RPD = 34.00	
18 4,4'-DDE							
1	4.827	4.817	0.010	7852		0.001073	
2	5.733	5.733	0.000	7796		0.001222	
						RPD = 13.01	
23 Endrin							
1	5.360	5.357	0.003	1750558	0.0500	0.0466	
2	6.247	6.247	0.000	1280392	0.0500	0.0574	
						RPD = 20.64	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
24 4,4'-DDD							
1	5.443	5.433	0.010	4541		0.001089	
2	6.343	6.337	0.006	7961		0.001532	
						RPD = 33.74	
28 4,4'-DDT							
1	5.730	5.723	0.007	3479555	0.1000	0.0959	
2	6.663	6.663	0.000	2034374	0.1000	0.1064	
						RPD = 10.38	
30 Methoxychlor							
1	6.240	6.233	0.007	3907642	0.2500	0.2488	E
2	7.350	7.350	0.000	2513883	0.2500	0.2927	E
						RPD = 16.23	
33 Endrin ketone							
1	6.757	6.750	0.007	16038		0.000490	
2	7.643	7.643	0.000	10724		0.001461	
						RPD = 99.53	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.780	0.007	644549	0.0200	0.0232	
2	8.843	8.843	0.000	363904	0.0200	0.0258	
						RPD = 10.29	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PEST_PEM_00142	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

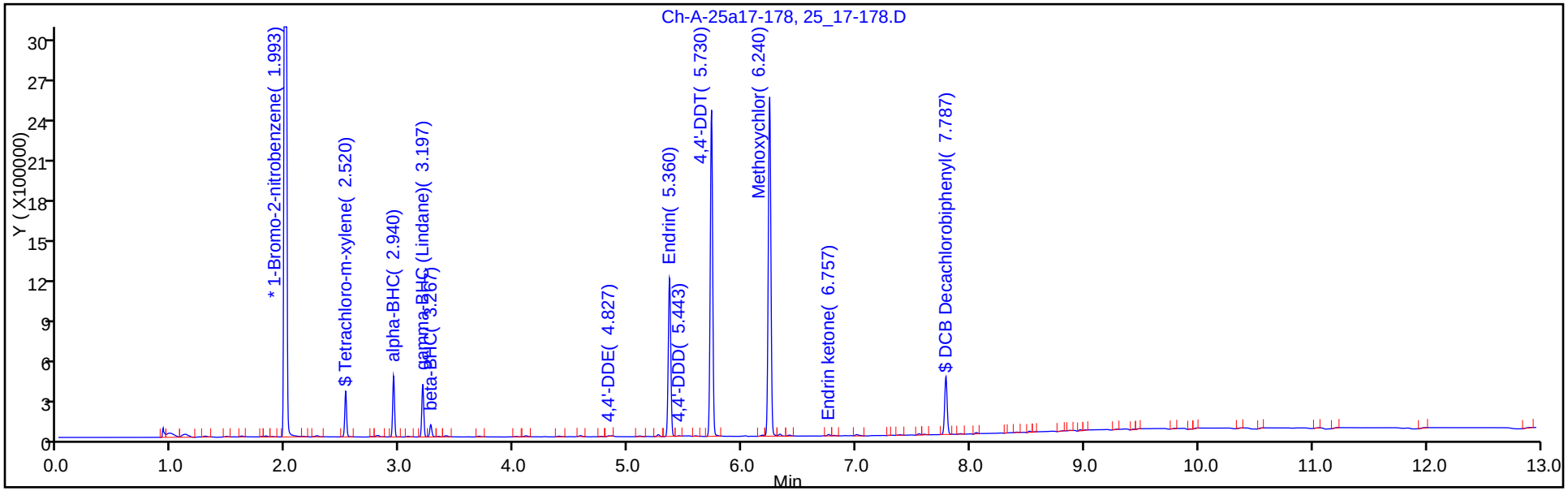
Report Date: 24-Jul-2017 07:47:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

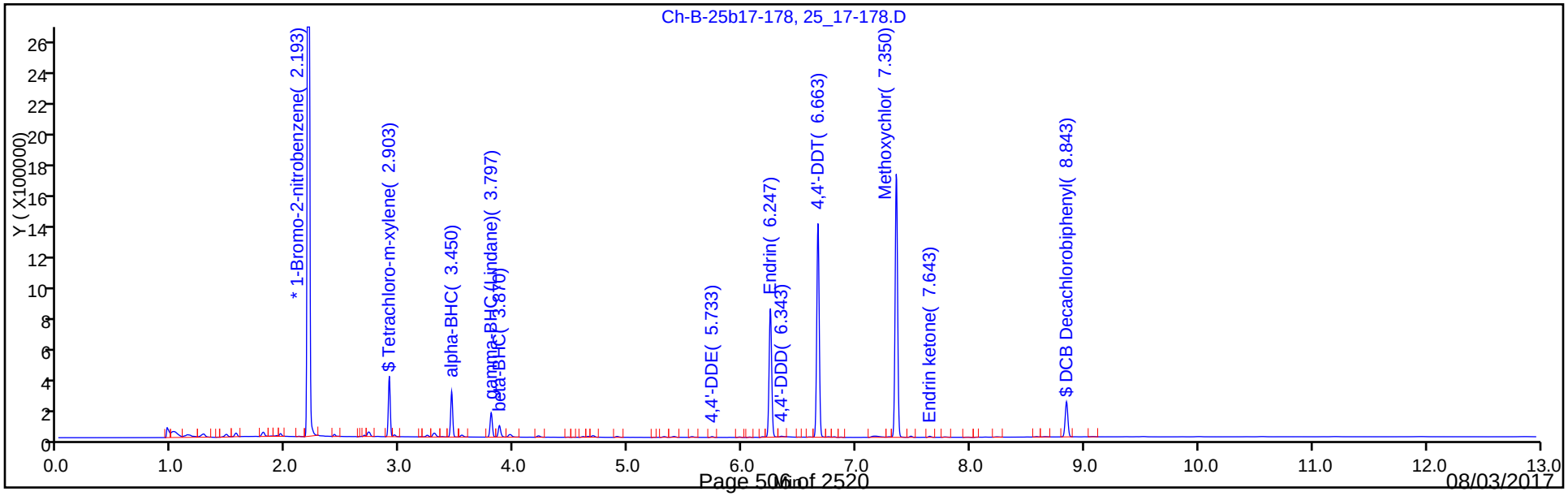
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-178.D

Injection Date:	22-Jul-2017 09:49:09	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	pem			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368232/7 Calibration Date: 07/22/2017 10:08

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-179.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		2.228		0.0528	0.0500	5.6	20.0
gamma-BHC (Lindane)	Lin1		1.955		0.0522	0.0500	4.4	20.0
beta-BHC	Lin1		0.5148		0.0351	0.0500	-29.7*	20.0
delta-BHC	Lin1		1.582		0.0427	0.0500	-14.5	20.0
Heptachlor	Lin1		1.783		0.0545	0.0500	9.0	20.0
Aldrin	Lin1		1.774		0.0529	0.0500	5.8	20.0
Heptachlor epoxide	Lin1		1.594		0.0560	0.0500	12.1	20.0
gamma-Chlordane	Lin1		1.732		0.0524	0.0500	4.8	20.0
alpha-Chlordane	Lin1		1.383		0.0445	0.0500	-10.9	20.0
4,4'-DDE	Lin1		1.504		0.0493	0.0500	-1.4	20.0
Endosulfan I	Lin1		1.271		0.0491	0.0500	-1.8	20.0
Dieldrin	Lin1		1.280		0.0440	0.0500	-12.0	20.0
Endrin	Lin1		1.385		0.0500	0.0500	0.0	20.0
4,4'-DDD	Lin1		1.347		0.0544	0.0500	8.7	20.0
Endosulfan II	Lin1		1.111		0.0452	0.0500	-9.6	20.0
4,4'-DDT	Lin1		1.337		0.0505	0.0500	1.1	20.0
Endrin aldehyde	Lin1		1.085		0.0547	0.0500	9.5	20.0
Methoxychlor	Lin1		0.6360		0.0552	0.0500	10.5	20.0
Endosulfan sulfate	Lin1		1.269		0.0574	0.0500	14.7	20.0
Endrin ketone	Lin1		1.483		0.0576	0.0500	15.3	20.0
Tetrachloro-m-xylene	Lin1		0.7918		0.0413	0.0500	-17.4	20.0
DCB Decachlorobiphenyl	Lin1		1.147		0.0563	0.0500	12.6	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368232/7 Calibration Date: 07/22/2017 10:08

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-179.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.94	2.91	2.96
gamma-BHC (Lindane)	3.19	3.17	3.22
beta-BHC	3.26	3.24	3.29
delta-BHC	3.42	3.39	3.44
Heptachlor	3.60	3.58	3.63
Aldrin	3.88	3.86	3.91
Heptachlor epoxide	4.47	4.45	4.50
gamma-Chlordane	4.60	4.58	4.63
alpha-Chlordane	4.73	4.71	4.76
4,4'-DDE	4.82	4.79	4.84
Endosulfan I	4.87	4.85	4.90
Dieldrin	5.12	5.10	5.15
Endrin	5.36	5.33	5.38
4,4'-DDD	5.43	5.41	5.46
Endosulfan II	5.59	5.56	5.61
4,4'-DDT	5.72	5.70	5.75
Endrin aldehyde	6.02	6.00	6.05
Methoxychlor	6.23	6.21	6.26
Endosulfan sulfate	6.47	6.44	6.49
Endrin ketone	6.75	6.73	6.78
Tetrachloro-m-xylene	2.52	2.49	2.54
DCB Decachlorobiphenyl	7.78	7.76	7.81

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-179.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Jul-2017 10:08:57 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:47:46 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 10:31:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.987	1.987	0.000	13758637	0.5000	0.5000	
2	2.193	2.193	0.000	9103394	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	1089459	0.0500	0.0413	
2	2.903	2.903	0.000	1290900	0.0500	0.0557	
						RPD = 29.80	
6 alpha-BHC							
1	2.937	2.937	0.000	3065119	0.0500	0.0528	
2	3.450	3.450	0.000	2069946	0.0500	0.0558	
						RPD = 5.56	
7 gamma-BHC (Lindane)							
1	3.190	3.190	0.000	2690182	0.0500	0.0522	
2	3.797	3.797	0.000	1304945	0.0500	0.0413	
						RPD = 23.21	
8 beta-BHC							
1	3.260	3.260	0.000	708287	0.0500	0.0351	
2	3.870	3.870	0.000	634451	0.0500	0.0473	
						RPD = 29.52	
9 delta-BHC							
1	3.417	3.417	0.000	2177157	0.0500	0.0427	
2	4.180	4.180	0.000	1545769	0.0500	0.0476	
						RPD = 10.79	
11 Heptachlor							
1	3.603	3.603	0.000	2452976	0.0500	0.0545	
2	4.267	4.267	0.000	1740130	0.0500	0.0593	
						RPD = 8.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.880	3.880	0.000	2441155	0.0500	0.0529	
2	4.617	4.617	0.000	1454633	0.0500	0.0500	
						RPD = 5.74	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	2192927	0.0500	0.0560	
2	5.217	5.217	0.000	1145358	0.0500	0.0475	
						RPD = 16.42	
16 gamma-Chlordane							
1	4.600	4.600	0.000	2382425	0.0500	0.0524	
2	5.417	5.417	0.000	1372334	0.0500	0.0518	
						RPD = 1.28	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1902385	0.0500	0.0445	
2	5.573	5.573	0.000	994851	0.0500	0.0419	
						RPD = 6.16	
18 4,4'-DDE							
1	4.817	4.817	0.000	2069658	0.0500	0.0493	
2	5.733	5.733	0.000	1441833	0.0500	0.0579	
						RPD = 16.01	
19 Endosulfan I							
1	4.873	4.873	0.000	1748232	0.0500	0.0491	
2	5.637	5.637	0.000	1279763	0.0500	0.0594	
						RPD = 18.93	
21 Dieldrin							
1	5.120	5.120	0.000	1760582	0.0500	0.0440	
2	5.927	5.927	0.000	1468503	0.0500	0.0585	
						RPD = 28.37	
23 Endrin							
1	5.357	5.357	0.000	1906053	0.0500	0.0500	
2	6.247	6.247	0.000	1374688	0.0500	0.0595	
						RPD = 17.30	
24 4,4'-DDD							
1	5.433	5.433	0.000	1853945	0.0500	0.0544	
2	6.337	6.337	0.000	1117366	0.0500	0.0577	
						RPD = 5.91	
27 Endosulfan II							
1	5.587	5.587	0.000	1527942	0.0500	0.0452	
2	6.463	6.463	0.000	1155041	0.0500	0.0575	
						RPD = 23.88	
28 4,4'-DDT							
1	5.723	5.723	0.000	1839762	0.0500	0.0505	
2	6.663	6.663	0.000	1045991	0.0500	0.0538	
						RPD = 6.30	
29 Endrin aldehyde							
1	6.020	6.020	0.000	1492161	0.0500	0.0547	
2	6.807	6.807	0.000	914797	0.0500	0.0591	
						RPD = 7.68	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.233	6.233	0.000	875000	0.0500	0.0552	
2	7.350	7.350	0.000	487963	0.0500	0.0563	
						RPD = 1.86	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1745415	0.0500	0.0574	
2	7.093	7.093	0.000	1013979	0.0500	0.0579	
						RPD = 0.96	
33 Endrin ketone							
1	6.750	6.750	0.000	2039867	0.0500	0.0576	
2	7.643	7.643	0.000	1115914	0.0500	0.0564	
						RPD = 2.15	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	1578546	0.0500	0.0563	
2	8.843	8.843	0.000	865879	0.0500	0.0594	
						RPD = 5.33	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

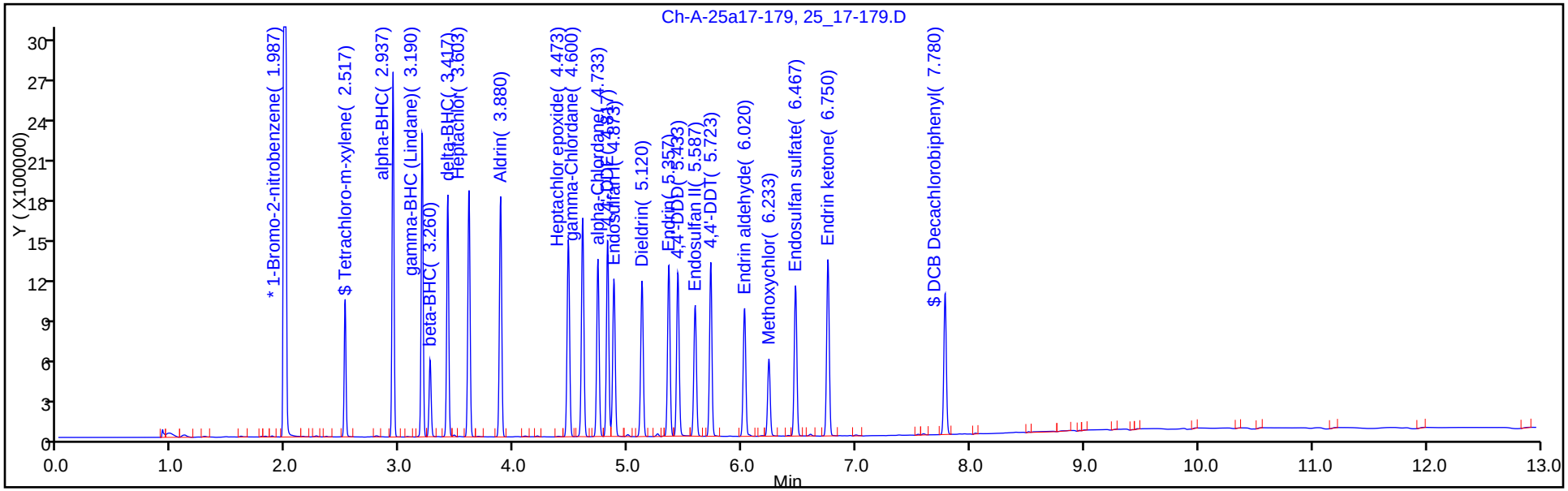
Report Date: 24-Jul-2017 07:47:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

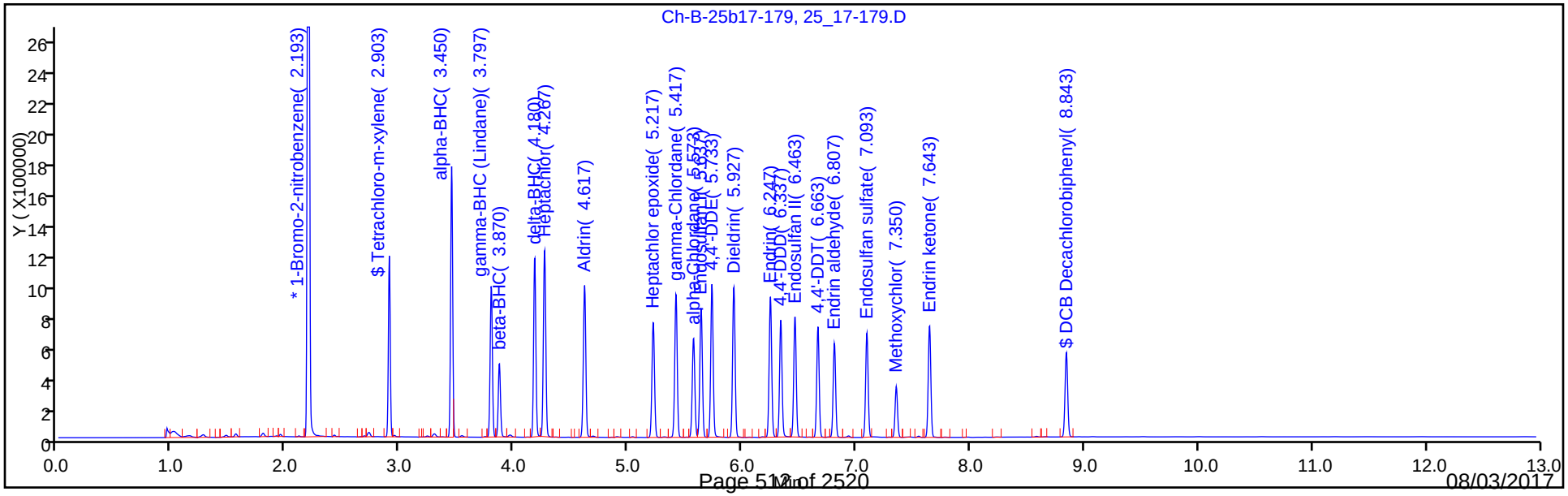
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-179.D

Injection Date:	22-Jul-2017 10:08:57	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccvis			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368232/7 Calibration Date: 07/22/2017 10:08

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-179.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		2.274		0.0558	0.0500	11.7	20.0
gamma-BHC (Lindane)	Lin1		1.433		0.0413	0.0500	-17.3	20.0
beta-BHC	Lin1		0.6969		0.0473	0.0500	-5.4	20.0
delta-BHC	Lin1		1.698		0.0476	0.0500	-4.8	20.0
Heptachlor	Lin1		1.912		0.0593	0.0500	18.5	20.0
Aldrin	Lin1		1.598		0.0500	0.0500	-0.1	20.0
Heptachlor epoxide	Lin1		1.258		0.0475	0.0500	-4.9	20.0
gamma-Chlordane	Lin1		1.508		0.0518	0.0500	3.5	20.0
alpha-Chlordane	Lin1		1.093		0.0419	0.0500	-16.3	20.0
Endosulfan I	Lin1		1.406		0.0594	0.0500	18.7	20.0
4,4'-DDE	Lin1		1.584		0.0579	0.0500	15.8	20.0
Dieldrin	Lin1		1.613		0.0585	0.0500	17.0	20.0
Endrin	Lin1		1.510		0.0595	0.0500	19.0	20.0
4,4'-DDD	Lin1		1.227		0.0577	0.0500	15.4	20.0
Endosulfan II	Lin1		1.269		0.0575	0.0500	15.0	20.0
4,4'-DDT	Lin1		1.149		0.0538	0.0500	7.6	20.0
Endrin aldehyde	Lin1		1.005		0.0591	0.0500	18.2	20.0
Endosulfan sulfate	Lin1		1.114		0.0579	0.0500	15.8	20.0
Methoxychlor	Lin1		0.5360		0.0563	0.0500	12.5	20.0
Endrin ketone	Lin1		1.226		0.0564	0.0500	12.8	20.0
Tetrachloro-m-xylene	Lin1		1.418		0.0557	0.0500	11.5	20.0
DCB Decachlorobiphenyl	Lin1		0.9512		0.0594	0.0500	18.8	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368232/7 Calibration Date: 07/22/2017 10:08

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-179.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	3.45	3.43	3.48
gamma-BHC (Lindane)	3.80	3.77	3.82
beta-BHC	3.87	3.85	3.90
delta-BHC	4.18	4.16	4.21
Heptachlor	4.27	4.24	4.29
Aldrin	4.62	4.59	4.64
Heptachlor epoxide	5.22	5.19	5.24
gamma-Chlordane	5.42	5.39	5.44
alpha-Chlordane	5.57	5.55	5.60
Endosulfan I	5.64	5.61	5.66
4,4'-DDE	5.73	5.71	5.76
Dieldrin	5.93	5.90	5.95
Endrin	6.25	6.22	6.27
4,4'-DDD	6.34	6.31	6.36
Endosulfan II	6.46	6.44	6.49
4,4'-DDT	6.66	6.64	6.69
Endrin aldehyde	6.81	6.78	6.83
Endosulfan sulfate	7.09	7.07	7.12
Methoxychlor	7.35	7.33	7.38
Endrin ketone	7.64	7.62	7.67
Tetrachloro-m-xylene	2.90	2.88	2.93
DCB Decachlorobiphenyl	8.84	8.82	8.87

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-179.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 22-Jul-2017 10:08:57 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:47:46 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 10:31:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.987	1.987	0.000	13758637	0.5000	0.5000	
2	2.193	2.193	0.000	9103394	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	1089459	0.0500	0.0413	
2	2.903	2.903	0.000	1290900	0.0500	0.0557	
						RPD = 29.80	
6 alpha-BHC							
1	2.937	2.937	0.000	3065119	0.0500	0.0528	
2	3.450	3.450	0.000	2069946	0.0500	0.0558	
						RPD = 5.56	
7 gamma-BHC (Lindane)							
1	3.190	3.190	0.000	2690182	0.0500	0.0522	
2	3.797	3.797	0.000	1304945	0.0500	0.0413	
						RPD = 23.21	
8 beta-BHC							
1	3.260	3.260	0.000	708287	0.0500	0.0351	
2	3.870	3.870	0.000	634451	0.0500	0.0473	
						RPD = 29.52	
9 delta-BHC							
1	3.417	3.417	0.000	2177157	0.0500	0.0427	
2	4.180	4.180	0.000	1545769	0.0500	0.0476	
						RPD = 10.79	
11 Heptachlor							
1	3.603	3.603	0.000	2452976	0.0500	0.0545	
2	4.267	4.267	0.000	1740130	0.0500	0.0593	
						RPD = 8.34	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.880	3.880	0.000	2441155	0.0500	0.0529	
2	4.617	4.617	0.000	1454633	0.0500	0.0500	
						RPD = 5.74	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	2192927	0.0500	0.0560	
2	5.217	5.217	0.000	1145358	0.0500	0.0475	
						RPD = 16.42	
16 gamma-Chlordane							
1	4.600	4.600	0.000	2382425	0.0500	0.0524	
2	5.417	5.417	0.000	1372334	0.0500	0.0518	
						RPD = 1.28	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1902385	0.0500	0.0445	
2	5.573	5.573	0.000	994851	0.0500	0.0419	
						RPD = 6.16	
18 4,4'-DDE							
1	4.817	4.817	0.000	2069658	0.0500	0.0493	
2	5.733	5.733	0.000	1441833	0.0500	0.0579	
						RPD = 16.01	
19 Endosulfan I							
1	4.873	4.873	0.000	1748232	0.0500	0.0491	
2	5.637	5.637	0.000	1279763	0.0500	0.0594	
						RPD = 18.93	
21 Dieldrin							
1	5.120	5.120	0.000	1760582	0.0500	0.0440	
2	5.927	5.927	0.000	1468503	0.0500	0.0585	
						RPD = 28.37	
23 Endrin							
1	5.357	5.357	0.000	1906053	0.0500	0.0500	
2	6.247	6.247	0.000	1374688	0.0500	0.0595	
						RPD = 17.30	
24 4,4'-DDD							
1	5.433	5.433	0.000	1853945	0.0500	0.0544	
2	6.337	6.337	0.000	1117366	0.0500	0.0577	
						RPD = 5.91	
27 Endosulfan II							
1	5.587	5.587	0.000	1527942	0.0500	0.0452	
2	6.463	6.463	0.000	1155041	0.0500	0.0575	
						RPD = 23.88	
28 4,4'-DDT							
1	5.723	5.723	0.000	1839762	0.0500	0.0505	
2	6.663	6.663	0.000	1045991	0.0500	0.0538	
						RPD = 6.30	
29 Endrin aldehyde							
1	6.020	6.020	0.000	1492161	0.0500	0.0547	
2	6.807	6.807	0.000	914797	0.0500	0.0591	
						RPD = 7.68	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.233	6.233	0.000	875000	0.0500	0.0552	
2	7.350	7.350	0.000	487963	0.0500	0.0563	
						RPD = 1.86	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1745415	0.0500	0.0574	
2	7.093	7.093	0.000	1013979	0.0500	0.0579	
						RPD = 0.96	
33 Endrin ketone							
1	6.750	6.750	0.000	2039867	0.0500	0.0576	
2	7.643	7.643	0.000	1115914	0.0500	0.0564	
						RPD = 2.15	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	1578546	0.0500	0.0563	
2	8.843	8.843	0.000	865879	0.0500	0.0594	
						RPD = 5.33	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

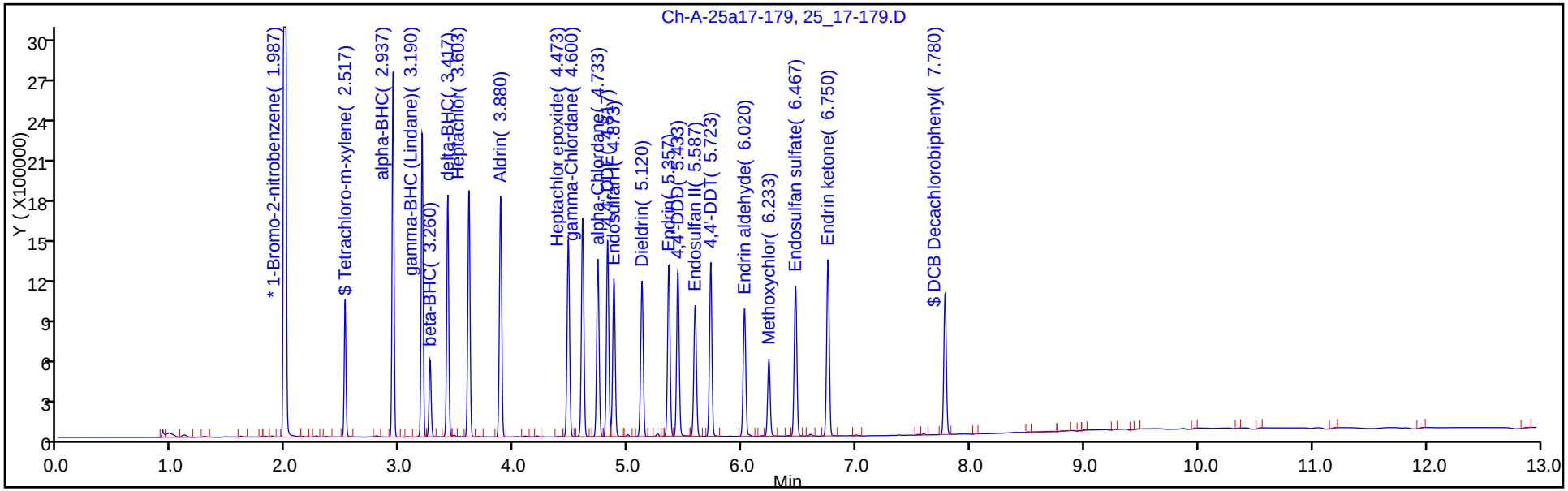
Report Date: 24-Jul-2017 07:47:47 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

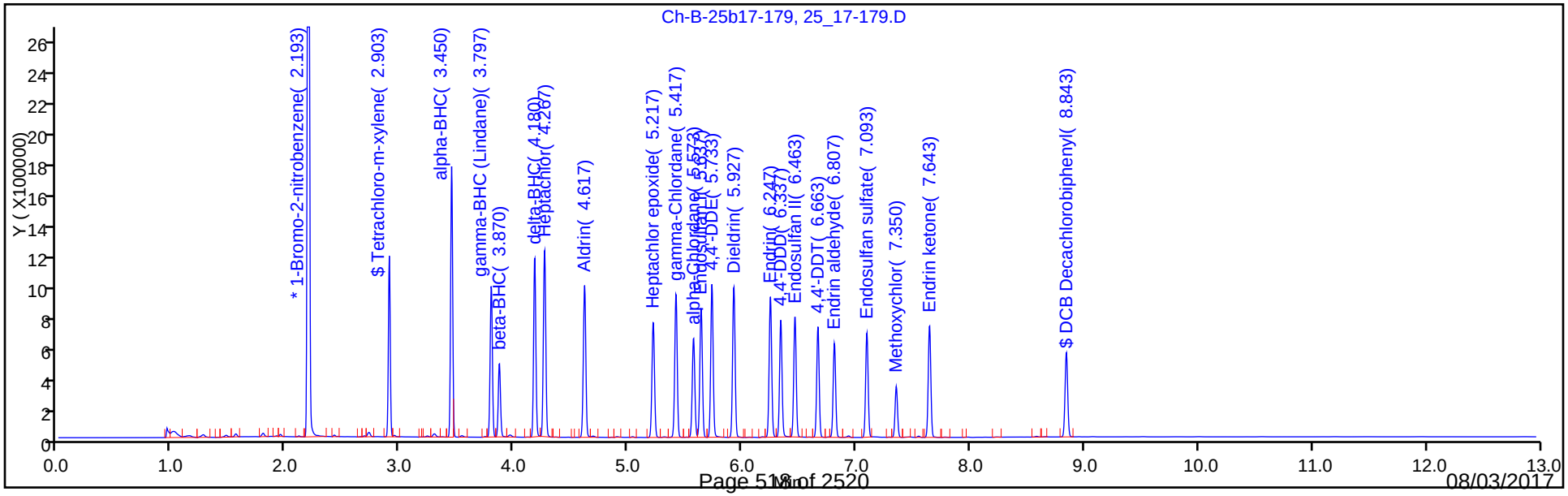
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-179.D

Injection Date:	22-Jul-2017 10:08:57	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccvis			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368232/9 Calibration Date: 07/22/2017 10:48

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-181.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Lin1		0.0553		0.544	0.500	8.9	20.0
Toxaphene Peak 2	Lin1		0.0810		0.567	0.500	13.4	20.0
Toxaphene Peak 3	Lin1		0.0444		0.586	0.500	17.3	20.0
Toxaphene Peak 4	Lin1		0.0459		0.571	0.500	14.2	20.0
Toxaphene Peak 5	Lin1		0.0414		0.539	0.500	7.8	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368232/9 Calibration Date: 07/22/2017 10:48

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-181.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	5.58	5.55	5.60
Toxaphene Peak 2	5.70	5.68	5.73
Toxaphene Peak 3	5.93	5.91	5.96
Toxaphene Peak 4	6.26	6.24	6.29
Toxaphene Peak 5	6.36	6.34	6.39

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-181.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 22-Jul-2017 10:48:16 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:29 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 11:33:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	13115906	0.5000	0.5000	
2	2.193	2.193	0.000	9066981	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.577	5.577	0.000	725825	0.5000	0.5445	
1	5.700	5.700	0.000	1062438	0.5000	0.5669	
1	5.930	5.930	0.000	582355	0.5000	0.5865	
1	6.263	6.263	0.000	601753	0.5000	0.5709	
1	6.363	6.363	0.000	542399	0.5000	0.5390	
		Average of Peak Amounts =				0.5616	
2	5.900	5.900	0.000	216964	0.5000	0.5727	M
2	6.450	6.450	0.000	317700	0.5000	0.5947	M
2	6.550	6.550	0.000	593225	0.5000	0.5714	M
2	6.813	6.813	0.000	365978	0.5000	0.5755	M
2	7.343	7.343	0.000	296947	0.5000	0.5652	M
		Average of Peak Amounts =				0.5759	
						RPD = 2.53	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00101	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added:	10.00	Units: uL	Run Reagent

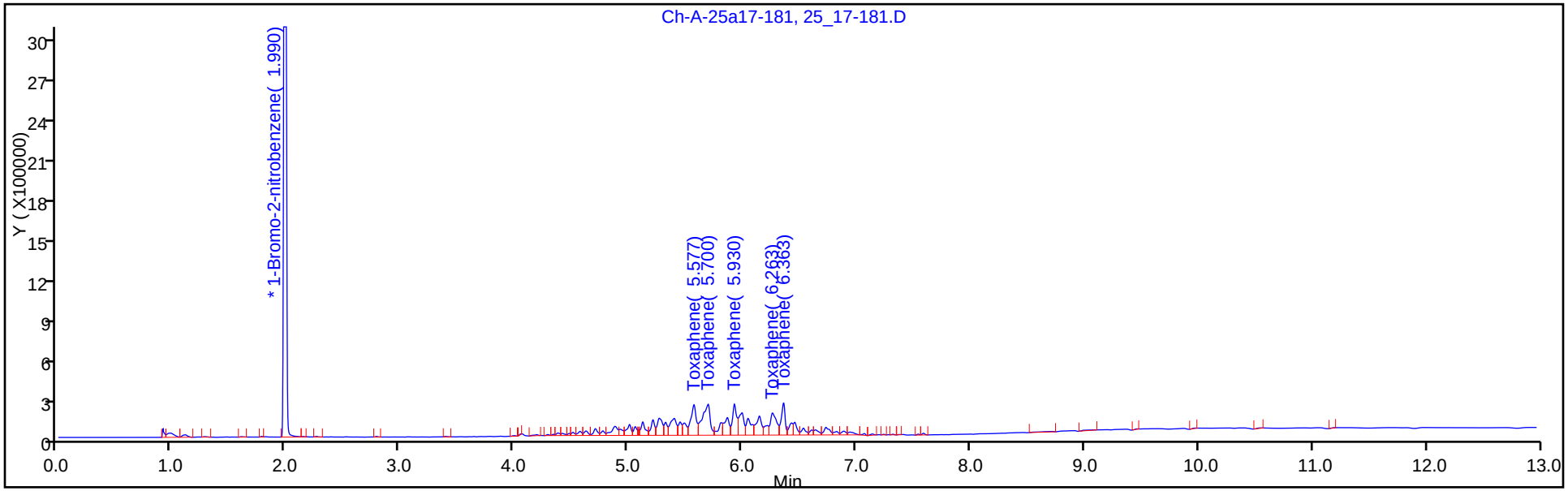
Report Date: 24-Jul-2017 07:46:30 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

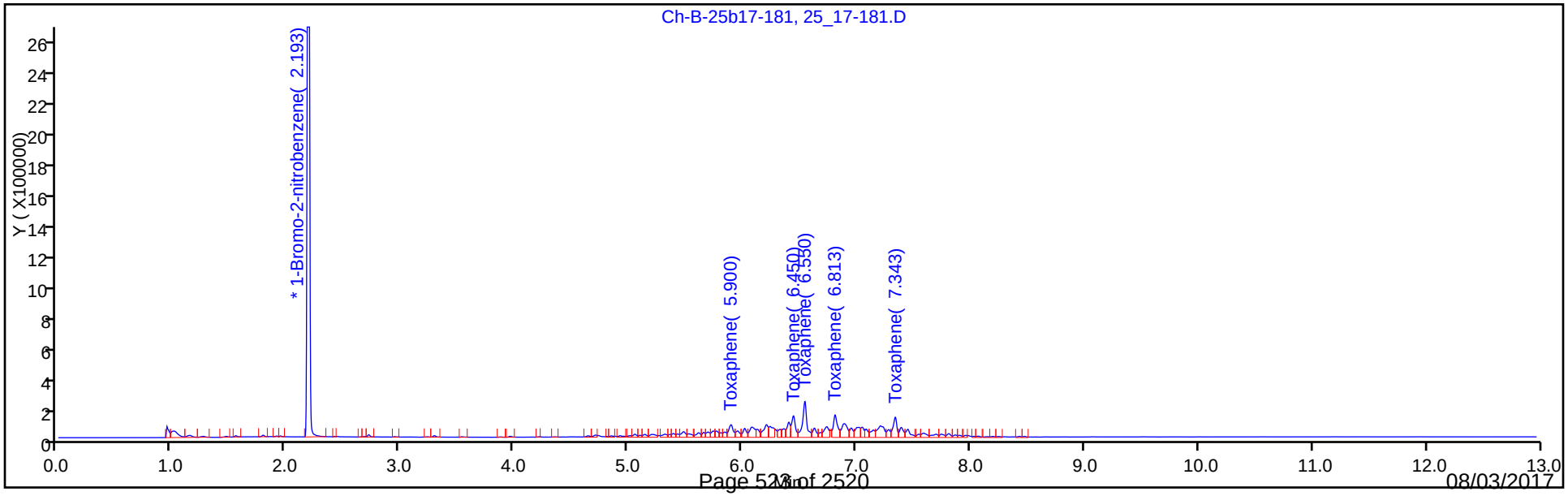
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-181.D

Injection Date:	22-Jul-2017 10:48:16	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccv			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368232/9 Calibration Date: 07/22/2017 10:48

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-181.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Lin1		0.0239		0.573	0.500	14.5	20.0
Toxaphene Peak 2	Lin1		0.0350		0.595	0.500	18.9	20.0
Toxaphene Peak 3	Lin1		0.0654		0.571	0.500	14.3	20.0
Toxaphene Peak 4	Lin1		0.0404		0.576	0.500	15.1	20.0
Toxaphene Peak 5	Lin1		0.0328		0.565	0.500	13.0	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368232/9 Calibration Date: 07/22/2017 10:48

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-181.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	5.90	5.88	5.93
Toxaphene Peak 2	6.45	6.43	6.48
Toxaphene Peak 3	6.55	6.53	6.58
Toxaphene Peak 4	6.81	6.79	6.84
Toxaphene Peak 5	7.34	7.32	7.37

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-181.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 22-Jul-2017 10:48:16 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:29 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 11:33:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	13115906	0.5000	0.5000	
2	2.193	2.193	0.000	9066981	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.577	5.577	0.000	725825	0.5000	0.5445	
1	5.700	5.700	0.000	1062438	0.5000	0.5669	
1	5.930	5.930	0.000	582355	0.5000	0.5865	
1	6.263	6.263	0.000	601753	0.5000	0.5709	
1	6.363	6.363	0.000	542399	0.5000	0.5390	
		Average of Peak Amounts =				0.5616	
2	5.900	5.900	0.000	216964	0.5000	0.5727	M
2	6.450	6.450	0.000	317700	0.5000	0.5947	M
2	6.550	6.550	0.000	593225	0.5000	0.5714	M
2	6.813	6.813	0.000	365978	0.5000	0.5755	M
2	7.343	7.343	0.000	296947	0.5000	0.5652	M
		Average of Peak Amounts =				0.5759	
						RPD = 2.53	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00101	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added:	10.00	Units: uL	Run Reagent

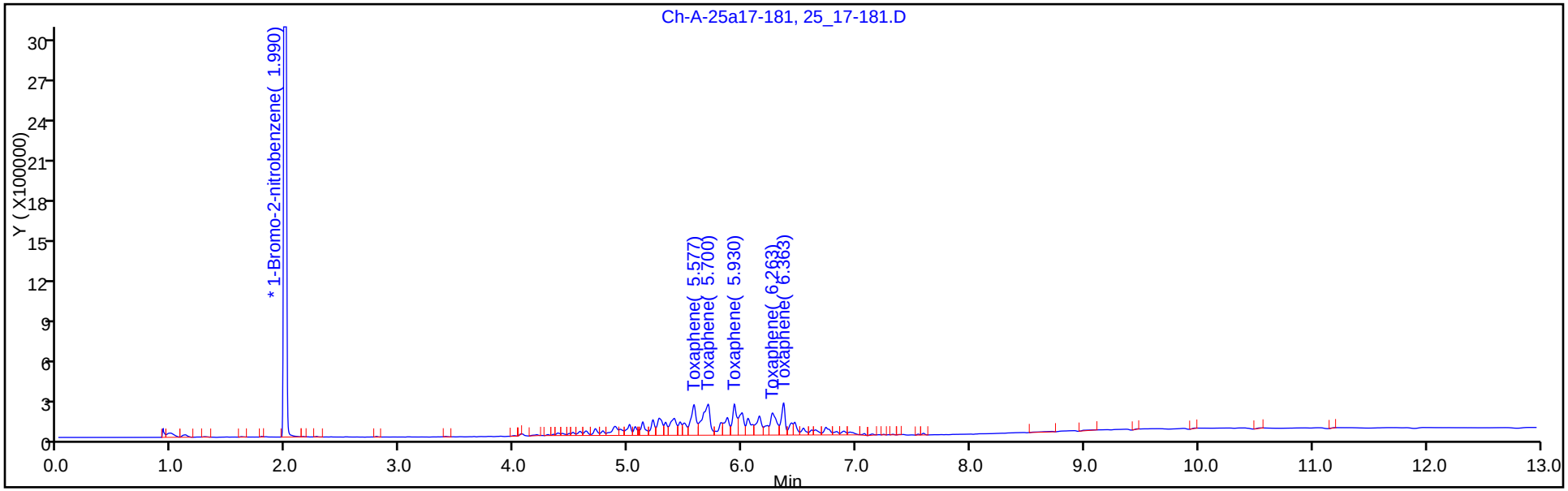
Report Date: 24-Jul-2017 07:46:31 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

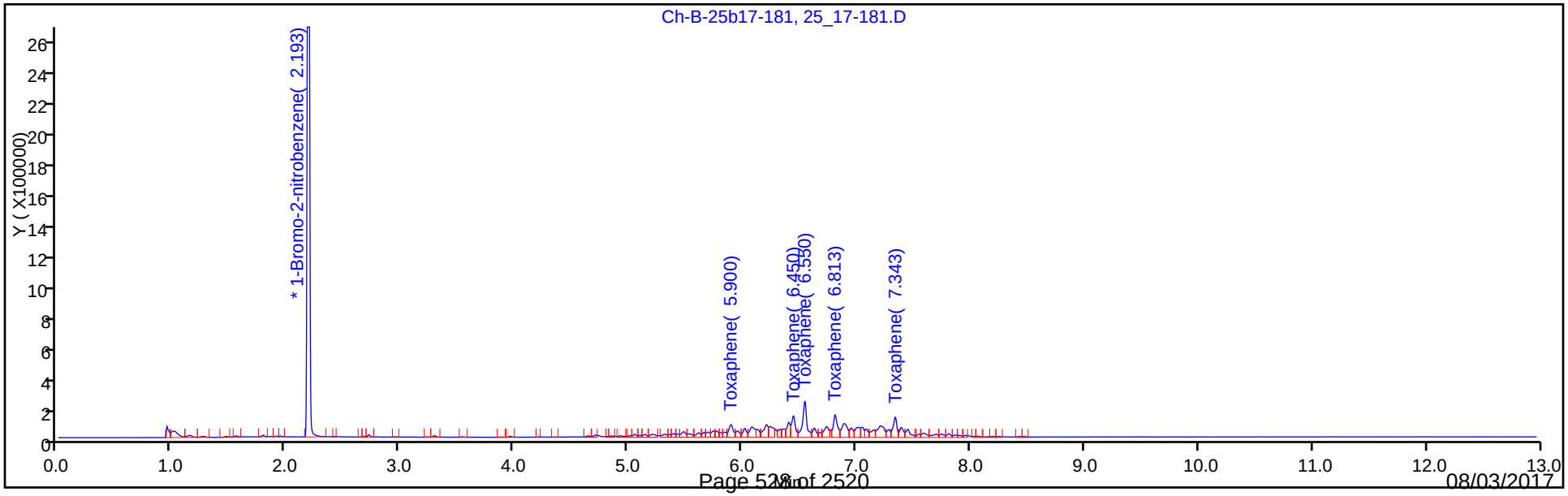
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-181.D

Injection Date:	22-Jul-2017 10:48:16	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccv			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 24-Jul-2017 07:46:31 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-181.D

Injection Date: 22-Jul-2017 10:48:16 Instrument ID: HP6890-25

Lims ID: ccv

Client ID:

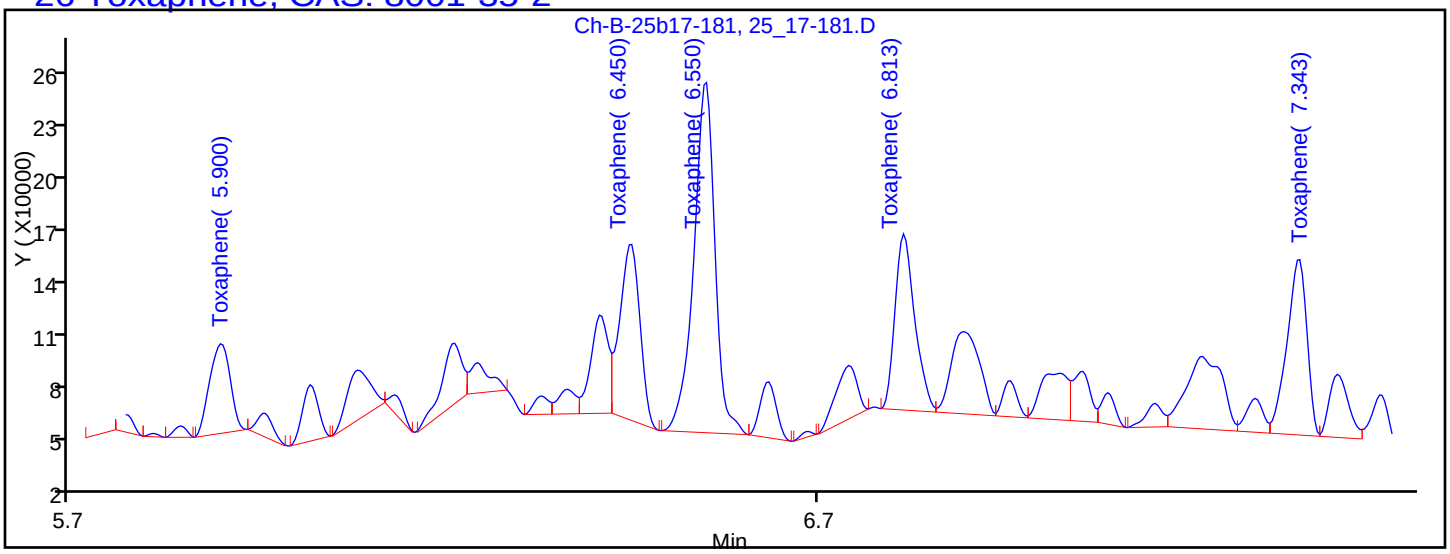
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

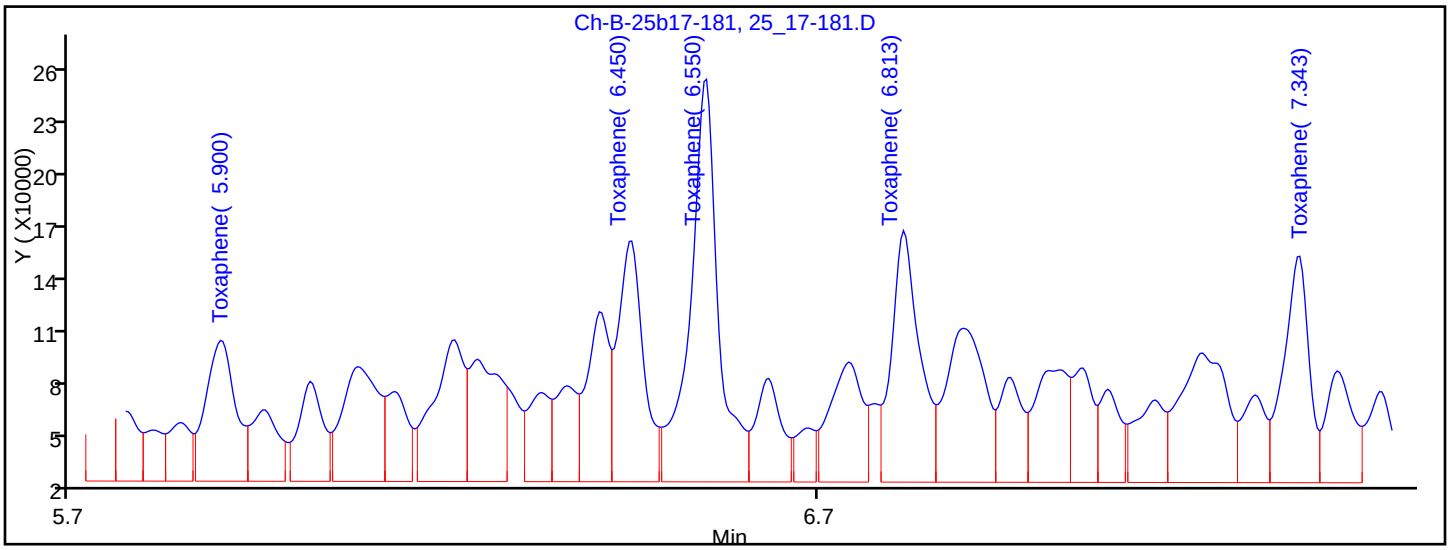
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.900	Response = 96315
6.450	Response = 183165
6.550	Response = 387271
6.813	Response = 180866
7.343	Response = 182037



Manual Integration Results

5.900	Response = 216964	M
6.450	Response = 317700	M
6.550	Response = 593225	M
6.813	Response = 365978	M
7.343	Response = 296947	M

Reviewer: salversonj, 22-Jul-2017 11:33:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368029/1-A

Matrix: Solid | Lab File ID: 25_17-183.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.81(g) | Date Analyzed: 07/22/2017 11:27

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	96		45-120
877-09-8	Tetrachloro-m-xylene	70		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-183.D
Lims ID: MB 480-368029/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Jul-2017 11:27:41 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 12:29:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11892884	0.5000	0.5000	
2	2.193	2.193	0.000	8593172	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	303740	0.0200	0.0140	
2	2.903	2.903	0.000	252287	0.0200	0.0118	
						RPD = 17.15	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	468193	0.0200	0.0192	
2	8.843	8.843	0.000	279037	0.0200	0.0202	
						RPD = 5.04	

Reagents:

COPPER_00067 Amount Added: 1.00 Units: Packet Run Reagent
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

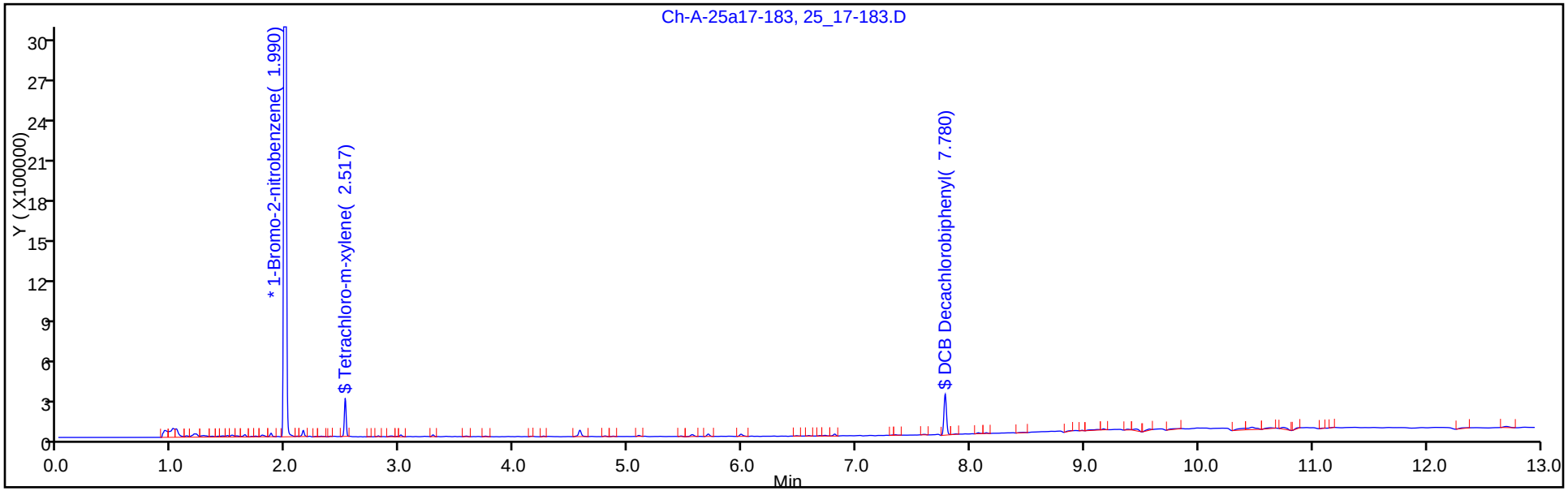
Report Date: 24-Jul-2017 07:46:33 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

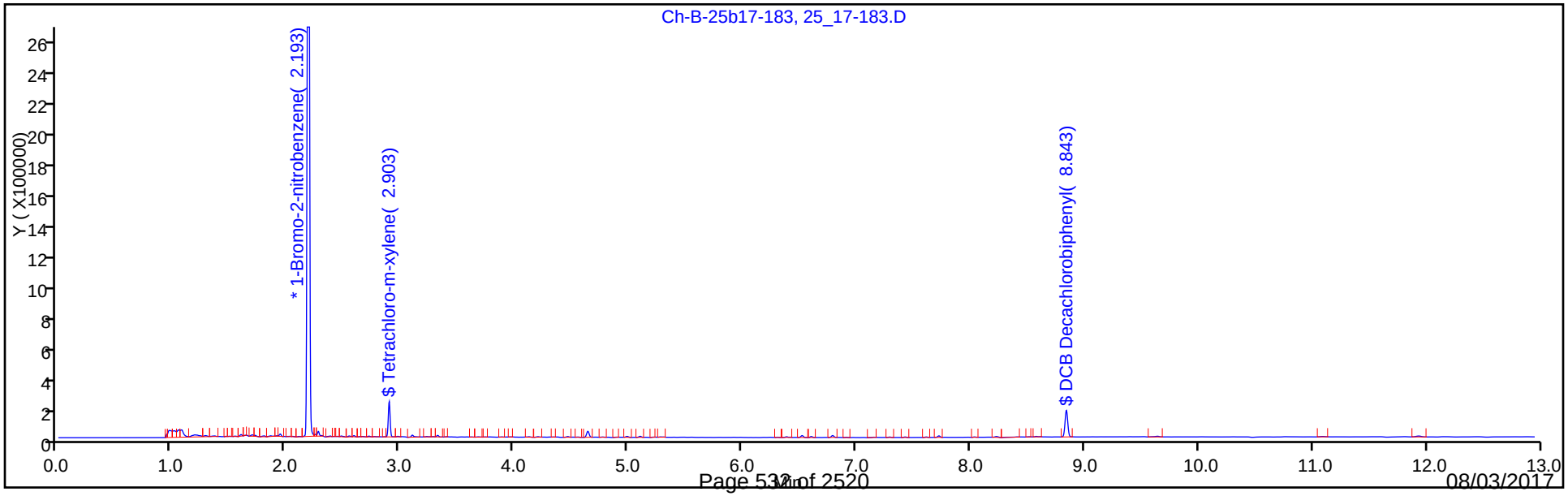
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-183.D

Injection Date:	22-Jul-2017 11:27:41	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	MB 480-368029/1-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368029/1-A

Matrix: Solid | Lab File ID: 25_17-183.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.81(g) | Date Analyzed: 07/22/2017 11:27

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		1.6	0.32
72-55-9	4,4'-DDE	ND		1.6	0.34
50-29-3	4,4'-DDT	ND		1.6	0.38
309-00-2	Aldrin	ND		1.6	0.40
319-84-6	alpha-BHC	ND		1.6	0.29
5103-71-9	alpha-Chlordane	ND		1.6	0.81
319-85-7	beta-BHC	ND		1.6	0.29
319-86-8	delta-BHC	ND		1.6	0.30
60-57-1	Dieldrin	ND		1.6	0.39
959-98-8	Endosulfan I	ND		1.6	0.31
33213-65-9	Endosulfan II	ND		1.6	0.29
1031-07-8	Endosulfan sulfate	ND		1.6	0.30
72-20-8	Endrin	ND		1.6	0.32
7421-93-4	Endrin aldehyde	ND		1.6	0.41
53494-70-5	Endrin ketone	ND		1.6	0.40
58-89-9	gamma-BHC (Lindane)	ND		1.6	0.30
5103-74-2	gamma-Chlordane	ND		1.6	0.52
76-44-8	Heptachlor	ND		1.6	0.35
1024-57-3	Heptachlor epoxide	ND		1.6	0.42
72-43-5	Methoxychlor	ND		1.6	0.33
8001-35-2	Toxaphene	ND		16	9.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	101		45-120
877-09-8	Tetrachloro-m-xylene	59		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-183.D
Lims ID: MB 480-368029/1-A
Client ID:
Sample Type: MB
Inject. Date: 22-Jul-2017 11:27:41 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 12:29:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11892884	0.5000	0.5000	
2	2.193	2.193	0.000	8593172	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	303740	0.0200	0.0140	
2	2.903	2.903	0.000	252287	0.0200	0.0118	
						RPD = 17.15	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	468193	0.0200	0.0192	
2	8.843	8.843	0.000	279037	0.0200	0.0202	
						RPD = 5.04	

Reagents:

COPPER_00067 Amount Added: 1.00 Units: Packet Run Reagent
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

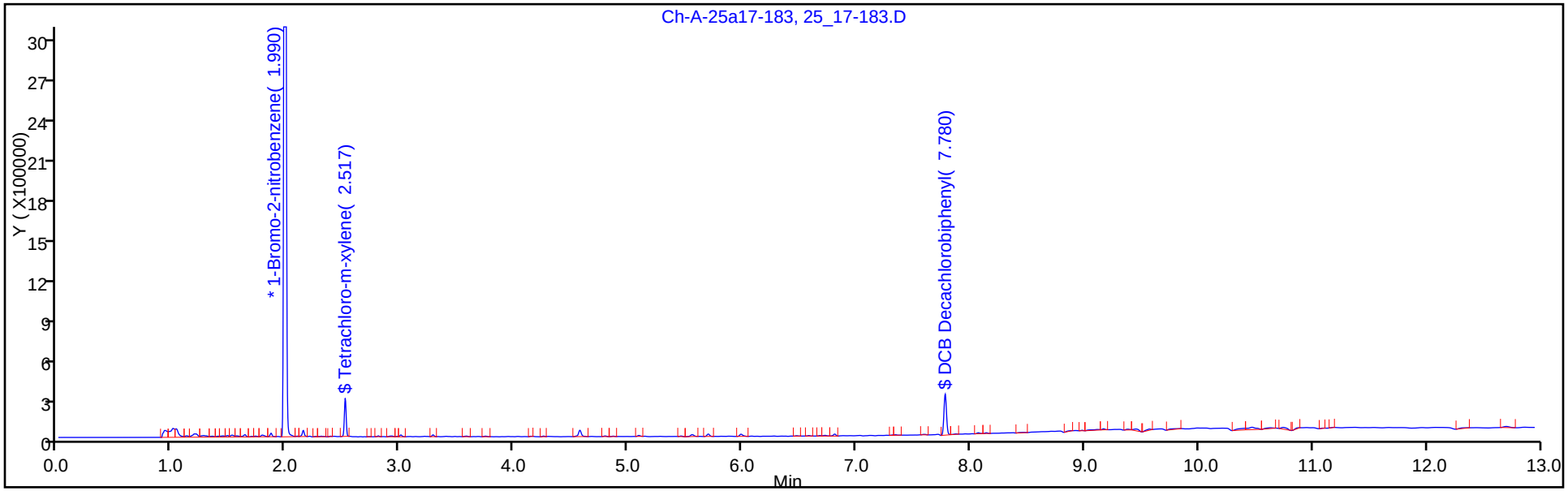
Report Date: 24-Jul-2017 07:46:33 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

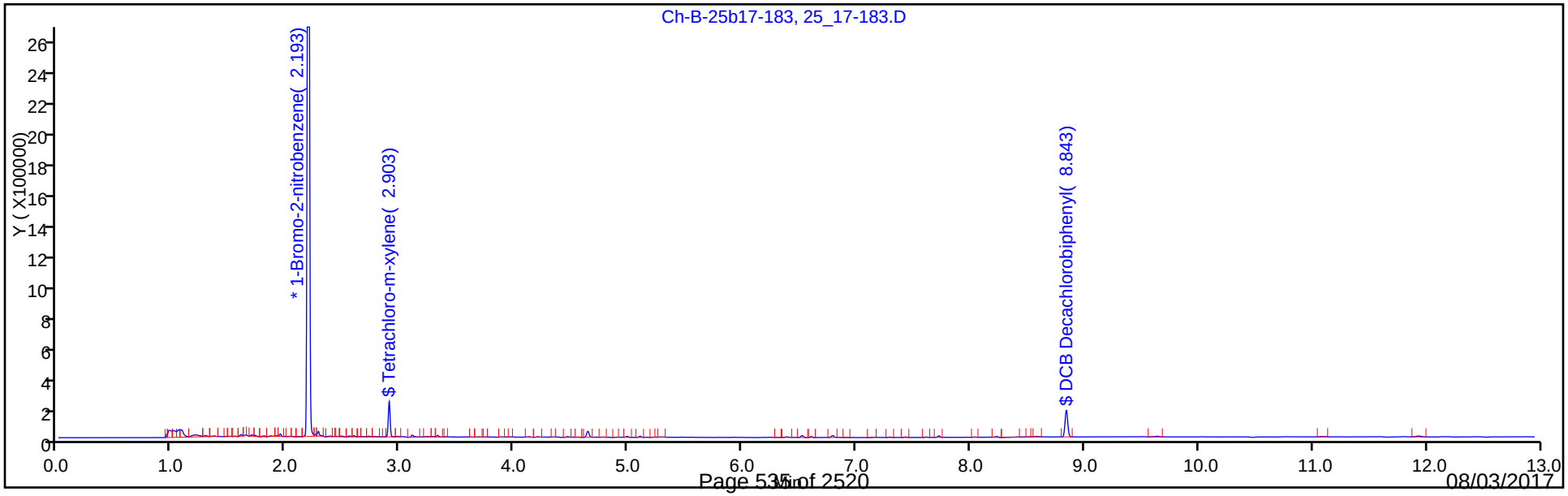
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-183.D

Injection Date:	22-Jul-2017 11:27:41	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	MB 480-368029/1-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368029/2-A

Matrix: Solid | Lab File ID: 25_17-184.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.75(g) | Date Analyzed: 07/22/2017 11:47

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	92		45-120
877-09-8	Tetrachloro-m-xylene	71		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-184.D
Lims ID: LCS 480-368029/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Jul-2017 11:47:24 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 12:33:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11868225	0.5000	0.5000	
2	2.193	2.193	0.000	8531710	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	305731	0.0200	0.0142	
2	2.903	2.903	0.000	241594	0.0200	0.0114	
						RPD = 21.41	
6 alpha-BHC							
1	2.937	2.937	0.000	1487894	0.0500	0.0300	
2	3.450	3.450	0.000	1063127	0.0500	0.0309	
						RPD = 3.14	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1419567	0.0500	0.0322	
2	3.797	3.797	0.000	999081	0.0500	0.0339	
						RPD = 5.31	
8 beta-BHC							
1	3.263	3.260	0.003	570180	0.0500	0.0328	
2	3.867	3.870	-0.003	402355	0.0500	0.0322	
						RPD = 1.92	
9 delta-BHC							
1	3.413	3.417	-0.004	1486682	0.0500	0.0340	
2	4.180	4.180	0.000	1040404	0.0500	0.0345	
						RPD = 1.37	
11 Heptachlor							
1	3.603	3.603	0.000	1432995	0.0500	0.0369	
2	4.263	4.267	-0.004	1038202	0.0500	0.0378	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.880	3.880	0.000	1189032	0.0500	0.0300	
2	4.613	4.617	-0.004	847443	0.0500	0.0312	
						RPD = 3.91	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	1241082	0.0500	0.0366	
2	5.217	5.217	0.000	882017	0.0500	0.0391	
						RPD = 6.55	
16 gamma-Chlordane							
1	4.600	4.600	0.000	1358296	0.0500	0.0348	
2	5.417	5.417	0.000	908984	0.0500	0.0368	
						RPD = 5.75	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1204917	0.0500	0.0328	
2	5.570	5.573	-0.003	822590	0.0500	0.0370	
						RPD = 12.05	
18 4,4'-DDE							
1	4.817	4.817	0.000	1338845	0.0500	0.0372	
2	5.730	5.733	-0.003	923650	0.0500	0.0399	
						RPD = 6.90	
19 Endosulfan I							
1	4.873	4.873	0.000	905132	0.0500	0.0294	
2	5.637	5.637	0.000	605286	0.0500	0.0301	
						RPD = 2.36	
21 Dieldrin							
1	5.117	5.120	-0.003	1406927	0.0500	0.0408	
2	5.923	5.927	-0.004	1003555	0.0500	0.0428	
						RPD = 4.95	
23 Endrin							
1	5.353	5.357	-0.004	1344752	0.0500	0.0409	
2	6.243	6.247	-0.004	876848	0.0500	0.0407	
						RPD = 0.51	
24 4,4'-DDD							
1	5.433	5.433	0.000	1195607	0.0500	0.0409	
2	6.333	6.337	-0.004	774039	0.0500	0.0429	
						RPD = 4.86	
27 Endosulfan II							
1	5.583	5.587	-0.004	953543	0.0500	0.0327	
2	6.460	6.463	-0.003	614328	0.0500	0.0328	
						RPD = 0.17	
28 4,4'-DDT							
1	5.720	5.723	-0.003	1352004	0.0500	0.0432	
2	6.660	6.663	-0.003	777265	0.0500	0.0431	
						RPD = 0.39	
29 Endrin aldehyde							
1	6.020	6.020	0.000	662930	0.0500	0.0281	
2	6.807	6.807	0.000	484889	0.0500	0.0335	
						RPD = 17.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.230	6.233	-0.003	594003	0.0500	0.0436	
2	7.350	7.350	0.000	450331	0.0500	0.0554	
						RPD = 23.98	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1142964	0.0500	0.0435	
2	7.090	7.093	-0.003	596836	0.0500	0.0366	
						RPD = 17.36	
33 Endrin ketone							
1	6.750	6.750	0.000	1255985	0.0500	0.0412	
2	7.640	7.643	-0.003	754144	0.0500	0.0409	
						RPD = 0.53	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	447439	0.0200	0.0184	
2	8.840	8.843	-0.003	274011	0.0200	0.0200	
						RPD = 8.30	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

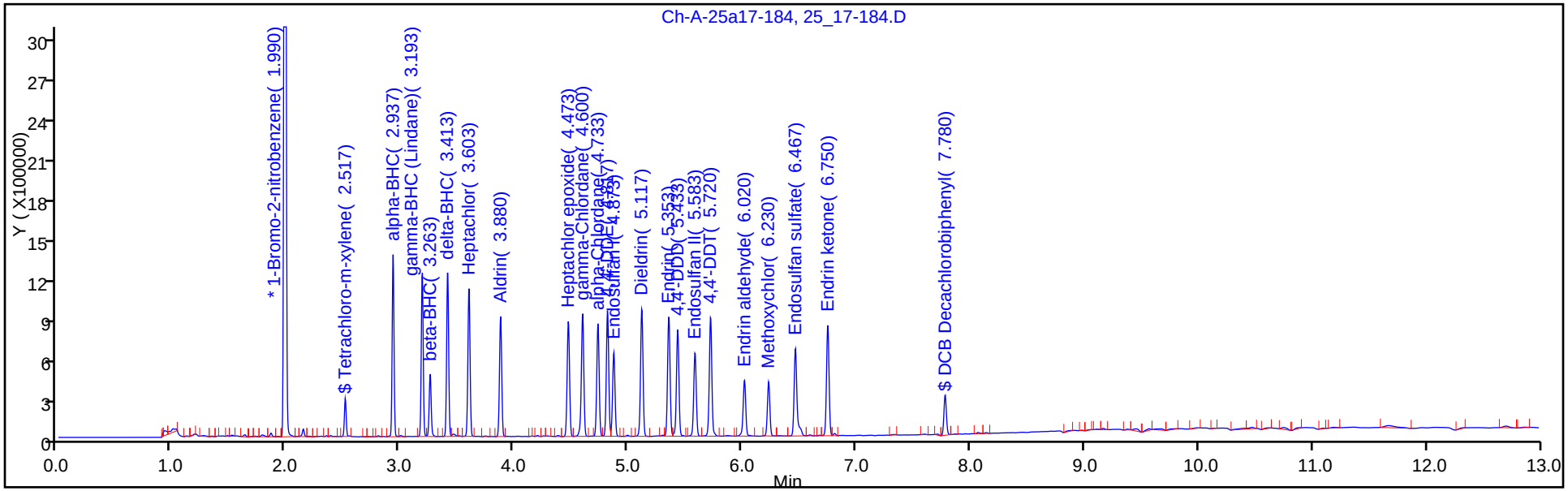
Report Date: 24-Jul-2017 07:46:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

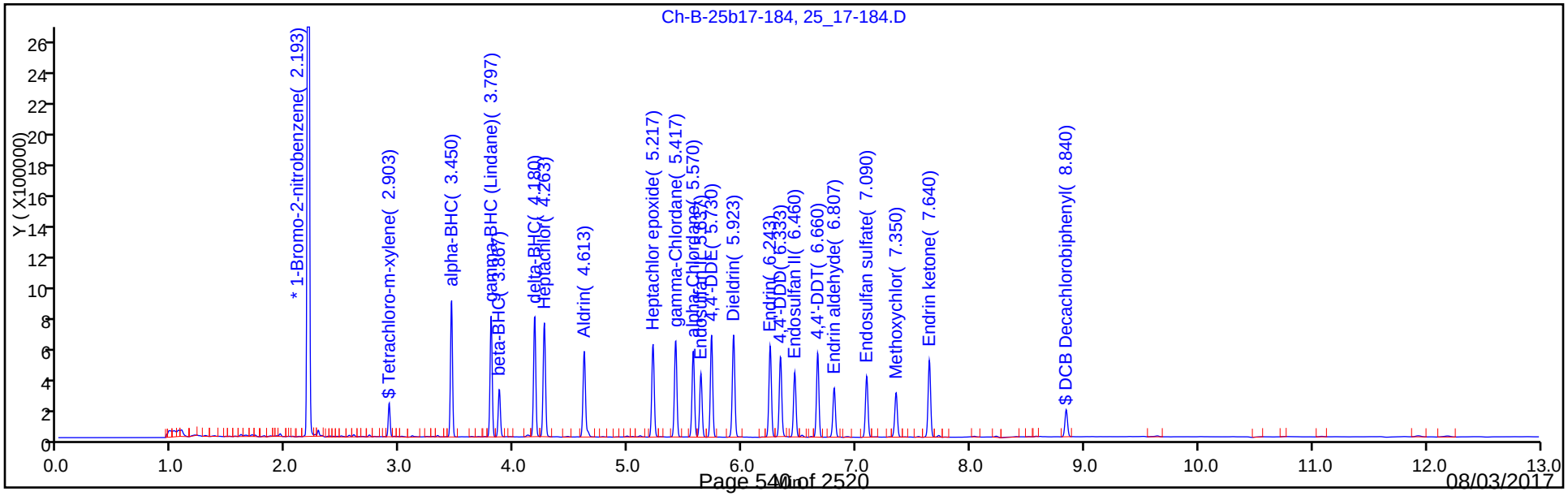
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-184.D

Injection Date:	22-Jul-2017 11:47:24	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368029/2-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368029/2-A

Matrix: Solid | Lab File ID: 25_17-184.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.75(g) | Date Analyzed: 07/22/2017 11:47

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	14.0		1.6	0.32
72-55-9	4,4'-DDE	13.0		1.6	0.34
50-29-3	4,4'-DDT	14.0		1.6	0.38
309-00-2	Aldrin	10.1		1.6	0.40
319-84-6	alpha-BHC	10.1		1.6	0.29
5103-71-9	alpha-Chlordane	12.0		1.6	0.81
319-85-7	beta-BHC	10.5		1.6	0.29
319-86-8	delta-BHC	11.2		1.6	0.30
60-57-1	Dieldrin	13.9		1.6	0.39
959-98-8	Endosulfan I	9.78		1.6	0.31
33213-65-9	Endosulfan II	10.7		1.6	0.29
1031-07-8	Endosulfan sulfate	11.9		1.6	0.30
72-20-8	Endrin	13.2		1.6	0.32
7421-93-4	Endrin aldehyde	10.9		1.6	0.42
53494-70-5	Endrin ketone	13.3		1.6	0.40
58-89-9	gamma-BHC (Lindane)	11.0		1.6	0.30
5103-74-2	gamma-Chlordane	12.0		1.6	0.52
76-44-8	Heptachlor	12.3		1.6	0.35
1024-57-3	Heptachlor epoxide	12.7		1.6	0.42
72-43-5	Methoxychlor	18.0		1.6	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	100		45-120
877-09-8	Tetrachloro-m-xylene	57		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-184.D
Lims ID: LCS 480-368029/2-A
Client ID:
Sample Type: LCS
Inject. Date: 22-Jul-2017 11:47:24 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 12:33:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11868225	0.5000	0.5000	
2	2.193	2.193	0.000	8531710	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	305731	0.0200	0.0142	
2	2.903	2.903	0.000	241594	0.0200	0.0114	
						RPD = 21.41	
6 alpha-BHC							
1	2.937	2.937	0.000	1487894	0.0500	0.0300	
2	3.450	3.450	0.000	1063127	0.0500	0.0309	
						RPD = 3.14	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1419567	0.0500	0.0322	
2	3.797	3.797	0.000	999081	0.0500	0.0339	
						RPD = 5.31	
8 beta-BHC							
1	3.263	3.260	0.003	570180	0.0500	0.0328	
2	3.867	3.870	-0.003	402355	0.0500	0.0322	
						RPD = 1.92	
9 delta-BHC							
1	3.413	3.417	-0.004	1486682	0.0500	0.0340	
2	4.180	4.180	0.000	1040404	0.0500	0.0345	
						RPD = 1.37	
11 Heptachlor							
1	3.603	3.603	0.000	1432995	0.0500	0.0369	
2	4.263	4.267	-0.004	1038202	0.0500	0.0378	
						RPD = 2.58	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.880	3.880	0.000	1189032	0.0500	0.0300	
2	4.613	4.617	-0.004	847443	0.0500	0.0312	
						RPD = 3.91	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	1241082	0.0500	0.0366	
2	5.217	5.217	0.000	882017	0.0500	0.0391	
						RPD = 6.55	
16 gamma-Chlordane							
1	4.600	4.600	0.000	1358296	0.0500	0.0348	
2	5.417	5.417	0.000	908984	0.0500	0.0368	
						RPD = 5.75	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1204917	0.0500	0.0328	
2	5.570	5.573	-0.003	822590	0.0500	0.0370	
						RPD = 12.05	
18 4,4'-DDE							
1	4.817	4.817	0.000	1338845	0.0500	0.0372	
2	5.730	5.733	-0.003	923650	0.0500	0.0399	
						RPD = 6.90	
19 Endosulfan I							
1	4.873	4.873	0.000	905132	0.0500	0.0294	
2	5.637	5.637	0.000	605286	0.0500	0.0301	
						RPD = 2.36	
21 Dieldrin							
1	5.117	5.120	-0.003	1406927	0.0500	0.0408	
2	5.923	5.927	-0.004	1003555	0.0500	0.0428	
						RPD = 4.95	
23 Endrin							
1	5.353	5.357	-0.004	1344752	0.0500	0.0409	
2	6.243	6.247	-0.004	876848	0.0500	0.0407	
						RPD = 0.51	
24 4,4'-DDD							
1	5.433	5.433	0.000	1195607	0.0500	0.0409	
2	6.333	6.337	-0.004	774039	0.0500	0.0429	
						RPD = 4.86	
27 Endosulfan II							
1	5.583	5.587	-0.004	953543	0.0500	0.0327	
2	6.460	6.463	-0.003	614328	0.0500	0.0328	
						RPD = 0.17	
28 4,4'-DDT							
1	5.720	5.723	-0.003	1352004	0.0500	0.0432	
2	6.660	6.663	-0.003	777265	0.0500	0.0431	
						RPD = 0.39	
29 Endrin aldehyde							
1	6.020	6.020	0.000	662930	0.0500	0.0281	
2	6.807	6.807	0.000	484889	0.0500	0.0335	
						RPD = 17.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.230	6.233	-0.003	594003	0.0500	0.0436	
2	7.350	7.350	0.000	450331	0.0500	0.0554	
						RPD = 23.98	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1142964	0.0500	0.0435	
2	7.090	7.093	-0.003	596836	0.0500	0.0366	
						RPD = 17.36	
33 Endrin ketone							
1	6.750	6.750	0.000	1255985	0.0500	0.0412	
2	7.640	7.643	-0.003	754144	0.0500	0.0409	
						RPD = 0.53	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	447439	0.0200	0.0184	
2	8.840	8.843	-0.003	274011	0.0200	0.0200	
						RPD = 8.30	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

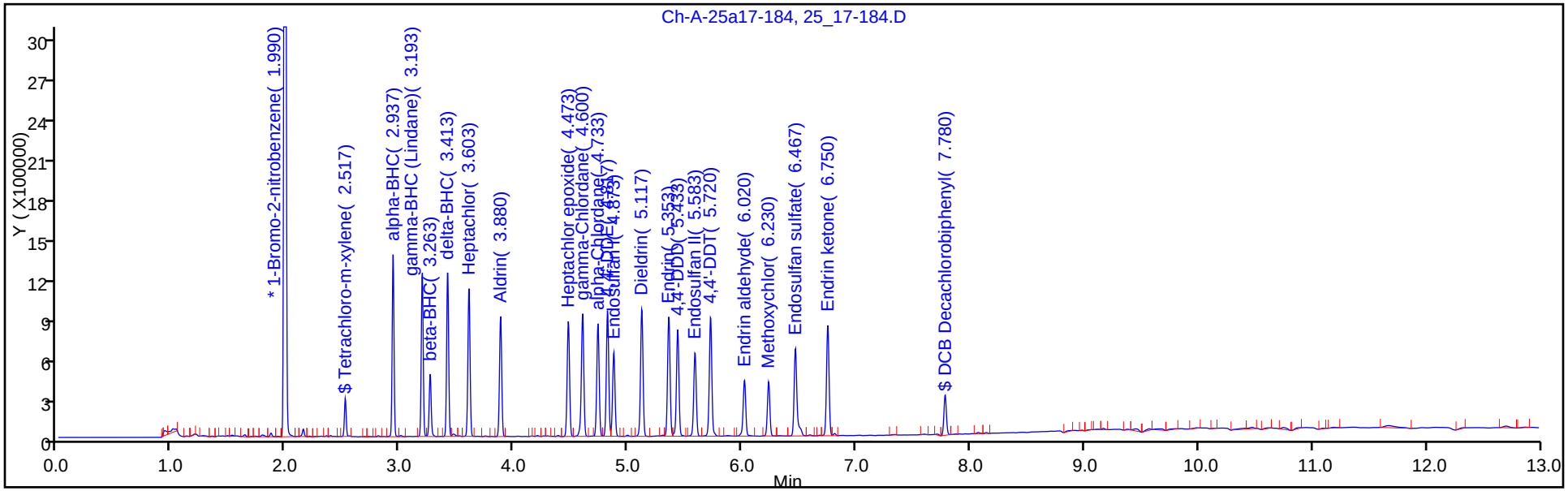
Report Date: 24-Jul-2017 07:46:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

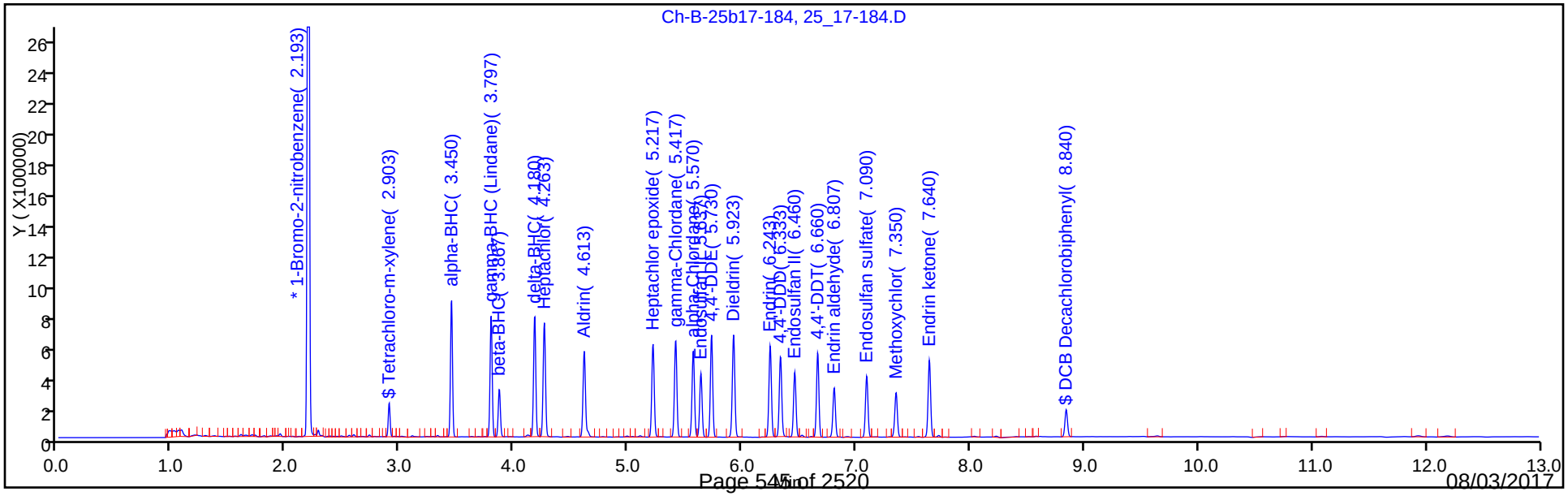
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-184.D

Injection Date:	22-Jul-2017 11:47:24	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368029/2-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS | Lab Sample ID: 480-121411-3 MS

Matrix: Solid | Lab File ID: 25_17-187.D

Analysis Method: 8081B | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.52(g) | Date Analyzed: 07/22/2017 12:46

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	95		45-120
877-09-8	Tetrachloro-m-xylene	80		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-187.D
Lims ID: 480-121411-A-3-A MS
Client ID: TP-15
Sample Type: MS
Inject. Date: 22-Jul-2017 12:46:17 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 13:20:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11838954	0.5000	0.5000	
2	2.193	2.193	0.000	8266748	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.517	0.003	347123	0.0200	0.0160	
2	2.903	2.903	0.000	317267	0.0200	0.0153	
						RPD = 3.92	
6 alpha-BHC							
1	2.940	2.937	0.003	1691197	0.0500	0.0341	
2	3.450	3.450	0.000	1249731	0.0500	0.0374	
						RPD = 9.22	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1683587	0.0500	0.0381	
2	3.797	3.797	0.000	1187751	0.0500	0.0414	
						RPD = 8.31	
8 beta-BHC							
1	3.263	3.260	0.003	782731	0.0500	0.0450	
2	3.870	3.870	0.000	484486	0.0500	0.0399	
						RPD = 11.99	
9 delta-BHC							
1	3.417	3.417	0.000	1767583	0.0500	0.0404	
2	4.180	4.180	0.000	1198803	0.0500	0.0408	
						RPD = 1.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.603	3.603	0.000	1646252	0.0500	0.0425	
2	4.263	4.267	-0.004	1162486	0.0500	0.0437	
						RPD = 2.76	
12 Aldrin							
1	3.883	3.880	0.003	1487611	0.0500	0.0375	
2	4.613	4.617	-0.004	1055944	0.0500	0.0400	
						RPD = 6.35	
14 Heptachlor epoxide							
1	4.477	4.473	0.004	1468539	0.0500	0.0435	
2	5.217	5.217	0.000	962561	0.0500	0.0440	
						RPD = 1.13	
16 gamma-Chlordane							
1	4.600	4.600	0.000	1469991	0.0500	0.0377	
2	5.417	5.417	0.000	1621844	0.0500	0.0671	
						RPD = 56.12	
17 alpha-Chlordane							
1	4.737	4.733	0.004	1288486	0.0500	0.0352	
2	5.570	5.573	-0.003	901896	0.0500	0.0418	
						RPD = 17.26	
18 4,4'-DDE							
1	4.820	4.817	0.003	1520188	0.0500	0.0422	
2	5.730	5.733	-0.003	1050597	0.0500	0.0466	
						RPD = 9.93	
19 Endosulfan I							
1	4.873	4.873	0.000	987427	0.0500	0.0321	
2	5.637	5.637	0.000	656844	0.0500	0.0337	
						RPD = 4.58	
21 Dieldrin							
1	5.120	5.120	0.000	1539570	0.0500	0.0447	
2	5.923	5.927	-0.004	1061915	0.0500	0.0467	
						RPD = 4.43	
23 Endrin							
1	5.357	5.357	0.000	1467851	0.0500	0.0447	
2	6.243	6.247	-0.004	946151	0.0500	0.0452	
						RPD = 1.06	
24 4,4'-DDD							
1	5.433	5.433	0.000	1278431	0.0500	0.0438	
2	6.333	6.337	-0.004	866489	0.0500	0.0494	
						RPD = 12.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.587	5.587	0.000	1030657	0.0500	0.0355	
2	6.460	6.463	-0.003	683755	0.0500	0.0376	
						RPD = 5.87	
28 4,4'-DDT							
1	5.723	5.723	0.000	1466878	0.0500	0.0469	
2	6.660	6.663	-0.003	892195	0.0500	0.0507	
						RPD = 7.70	
29 Endrin aldehyde							
1	6.020	6.020	0.000	880740	0.0500	0.0375	
2	6.807	6.807	0.000	659635	0.0500	0.0470	
						RPD = 22.56	
30 Methoxychlor							
1	6.233	6.233	0.000	664773	0.0500	0.0488	
2	7.347	7.350	-0.003	664427	0.0500	0.0835	
						RPD = 52.47	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1666575	0.0500	0.0637	
2	7.090	7.093	-0.003	759130	0.0500	0.0478	
						RPD = 28.37	
33 Endrin ketone							
1	6.750	6.750	0.000	1467831	0.0500	0.0482	
2	7.640	7.643	-0.003	869900	0.0500	0.0486	
						RPD = 0.72	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	459250	0.0200	0.0189	
2	8.840	8.843	-0.003	290039	0.0200	0.0218	
						RPD = 14.29	
S 1 BHC, Total							
1						0.1575	
2						0.1595	
						RPD = 1.24	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

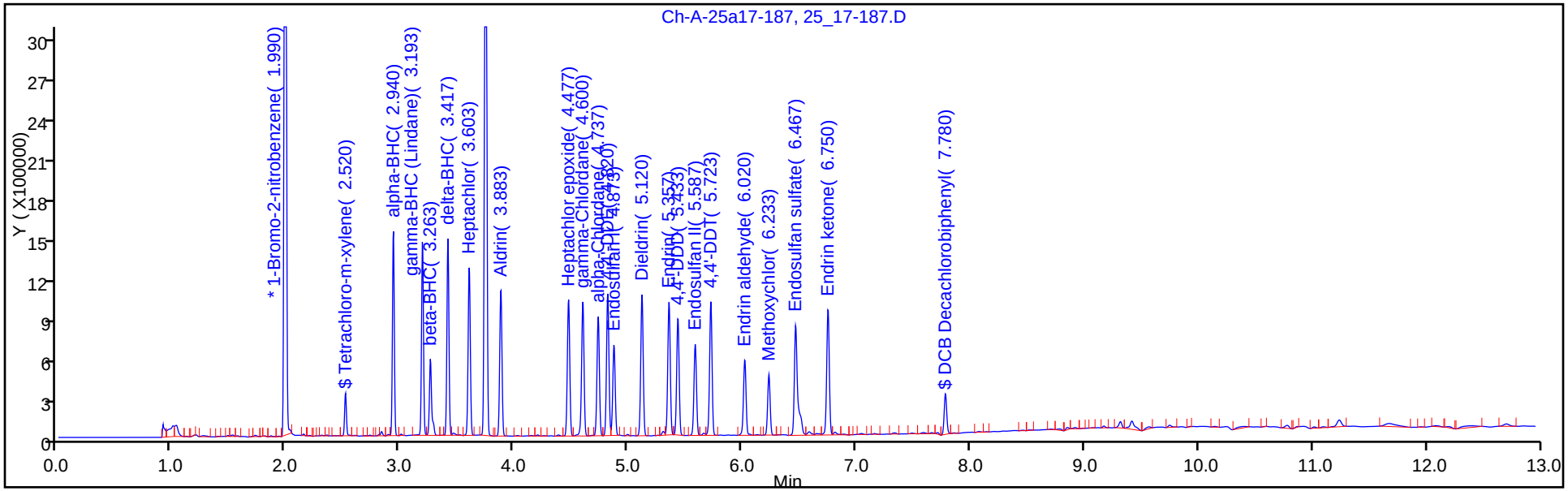
Report Date: 24-Jul-2017 07:46:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

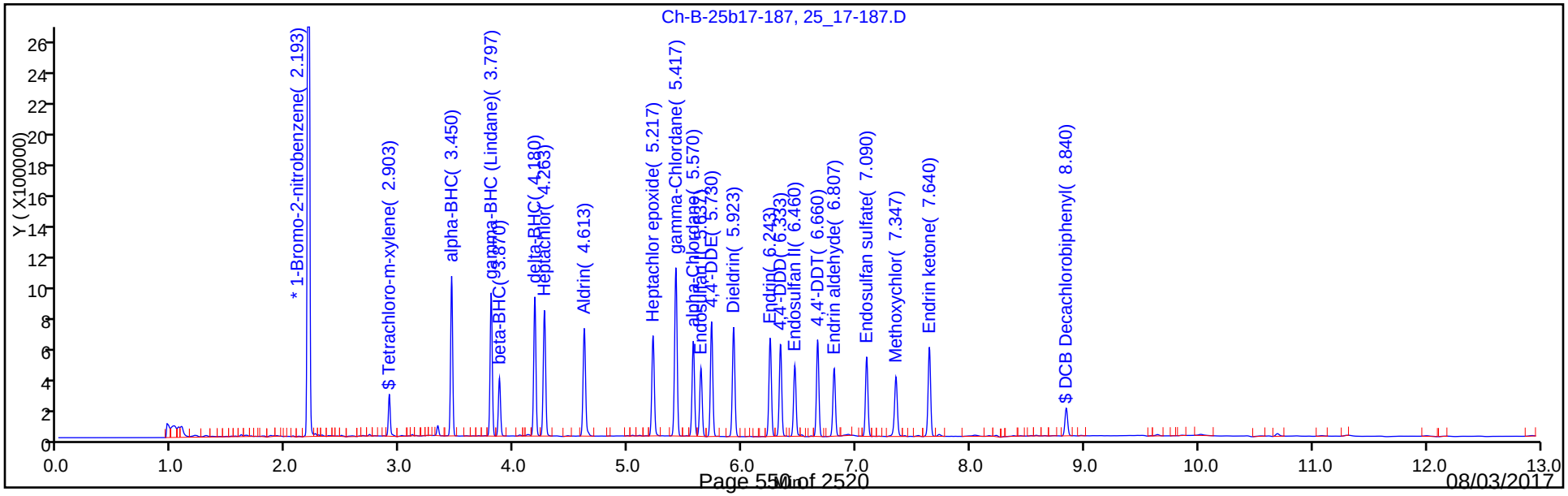
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-187.D

Injection Date:	22-Jul-2017 12:46:17	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-A MS			Worklist Smp#:	15
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS | Lab Sample ID: 480-121411-3 MS

Matrix: Solid | Lab File ID: 25_17-187.D

Analysis Method: 8081B | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.52(g) | Date Analyzed: 07/22/2017 12:46

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	19.4		2.0	0.38
72-55-9	4,4'-DDE	18.3		2.0	0.41
50-29-3	4,4'-DDT	19.9		2.0	0.46
309-00-2	Aldrin	15.7		2.0	0.48
319-84-6	alpha-BHC	14.7		2.0	0.35
5103-71-9	alpha-Chlordane	16.4		2.0	0.98
319-85-7	beta-BHC	15.7		2.0	0.35
319-86-8	delta-BHC	16.0		2.0	0.37
60-57-1	Dieldrin	18.3		2.0	0.47
959-98-8	Endosulfan I	13.2		2.0	0.38
33213-65-9	Endosulfan II	14.8		2.0	0.35
1031-07-8	Endosulfan sulfate	18.8		2.0	0.37
72-20-8	Endrin	17.8		2.0	0.39
7421-93-4	Endrin aldehyde	18.5		2.0	0.50
53494-70-5	Endrin ketone	19.1		2.0	0.48
58-89-9	gamma-BHC (Lindane)	16.3		2.0	0.36
5103-74-2	gamma-Chlordane	26.3		2.0	0.62
76-44-8	Heptachlor	17.1		2.0	0.43
1024-57-3	Heptachlor epoxide	17.3		2.0	0.51
72-43-5	Methoxychlor	32.8		2.0	0.40
8001-35-2	Toxaphene	ND		20	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	109		45-120
877-09-8	Tetrachloro-m-xylene	77		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-187.D
Lims ID: 480-121411-A-3-A MS
Client ID: TP-15
Sample Type: MS
Inject. Date: 22-Jul-2017 12:46:17 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:46:32 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 13:20:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.990	0.000	11838954	0.5000	0.5000	
2	2.193	2.193	0.000	8266748	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.517	0.003	347123	0.0200	0.0160	
2	2.903	2.903	0.000	317267	0.0200	0.0153	
						RPD = 3.92	
6 alpha-BHC							
1	2.940	2.937	0.003	1691197	0.0500	0.0341	
2	3.450	3.450	0.000	1249731	0.0500	0.0374	
						RPD = 9.22	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1683587	0.0500	0.0381	
2	3.797	3.797	0.000	1187751	0.0500	0.0414	
						RPD = 8.31	
8 beta-BHC							
1	3.263	3.260	0.003	782731	0.0500	0.0450	
2	3.870	3.870	0.000	484486	0.0500	0.0399	
						RPD = 11.99	
9 delta-BHC							
1	3.417	3.417	0.000	1767583	0.0500	0.0404	
2	4.180	4.180	0.000	1198803	0.0500	0.0408	
						RPD = 1.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.603	3.603	0.000	1646252	0.0500	0.0425	
2	4.263	4.267	-0.004	1162486	0.0500	0.0437	
						RPD = 2.76	
12 Aldrin							
1	3.883	3.880	0.003	1487611	0.0500	0.0375	
2	4.613	4.617	-0.004	1055944	0.0500	0.0400	
						RPD = 6.35	
14 Heptachlor epoxide							
1	4.477	4.473	0.004	1468539	0.0500	0.0435	
2	5.217	5.217	0.000	962561	0.0500	0.0440	
						RPD = 1.13	
16 gamma-Chlordane							
1	4.600	4.600	0.000	1469991	0.0500	0.0377	
2	5.417	5.417	0.000	1621844	0.0500	0.0671	
						RPD = 56.12	
17 alpha-Chlordane							
1	4.737	4.733	0.004	1288486	0.0500	0.0352	
2	5.570	5.573	-0.003	901896	0.0500	0.0418	
						RPD = 17.26	
18 4,4'-DDE							
1	4.820	4.817	0.003	1520188	0.0500	0.0422	
2	5.730	5.733	-0.003	1050597	0.0500	0.0466	
						RPD = 9.93	
19 Endosulfan I							
1	4.873	4.873	0.000	987427	0.0500	0.0321	
2	5.637	5.637	0.000	656844	0.0500	0.0337	
						RPD = 4.58	
21 Dieldrin							
1	5.120	5.120	0.000	1539570	0.0500	0.0447	
2	5.923	5.927	-0.004	1061915	0.0500	0.0467	
						RPD = 4.43	
23 Endrin							
1	5.357	5.357	0.000	1467851	0.0500	0.0447	
2	6.243	6.247	-0.004	946151	0.0500	0.0452	
						RPD = 1.06	
24 4,4'-DDD							
1	5.433	5.433	0.000	1278431	0.0500	0.0438	
2	6.333	6.337	-0.004	866489	0.0500	0.0494	
						RPD = 12.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.587	5.587	0.000	1030657	0.0500	0.0355	
2	6.460	6.463	-0.003	683755	0.0500	0.0376	
						RPD = 5.87	
28 4,4'-DDT							
1	5.723	5.723	0.000	1466878	0.0500	0.0469	
2	6.660	6.663	-0.003	892195	0.0500	0.0507	
						RPD = 7.70	
29 Endrin aldehyde							
1	6.020	6.020	0.000	880740	0.0500	0.0375	
2	6.807	6.807	0.000	659635	0.0500	0.0470	
						RPD = 22.56	
30 Methoxychlor							
1	6.233	6.233	0.000	664773	0.0500	0.0488	
2	7.347	7.350	-0.003	664427	0.0500	0.0835	
						RPD = 52.47	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1666575	0.0500	0.0637	
2	7.090	7.093	-0.003	759130	0.0500	0.0478	
						RPD = 28.37	
33 Endrin ketone							
1	6.750	6.750	0.000	1467831	0.0500	0.0482	
2	7.640	7.643	-0.003	869900	0.0500	0.0486	
						RPD = 0.72	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	459250	0.0200	0.0189	
2	8.840	8.843	-0.003	290039	0.0200	0.0218	
						RPD = 14.29	
S 1 BHC, Total							
1						0.1575	
2						0.1595	
						RPD = 1.24	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

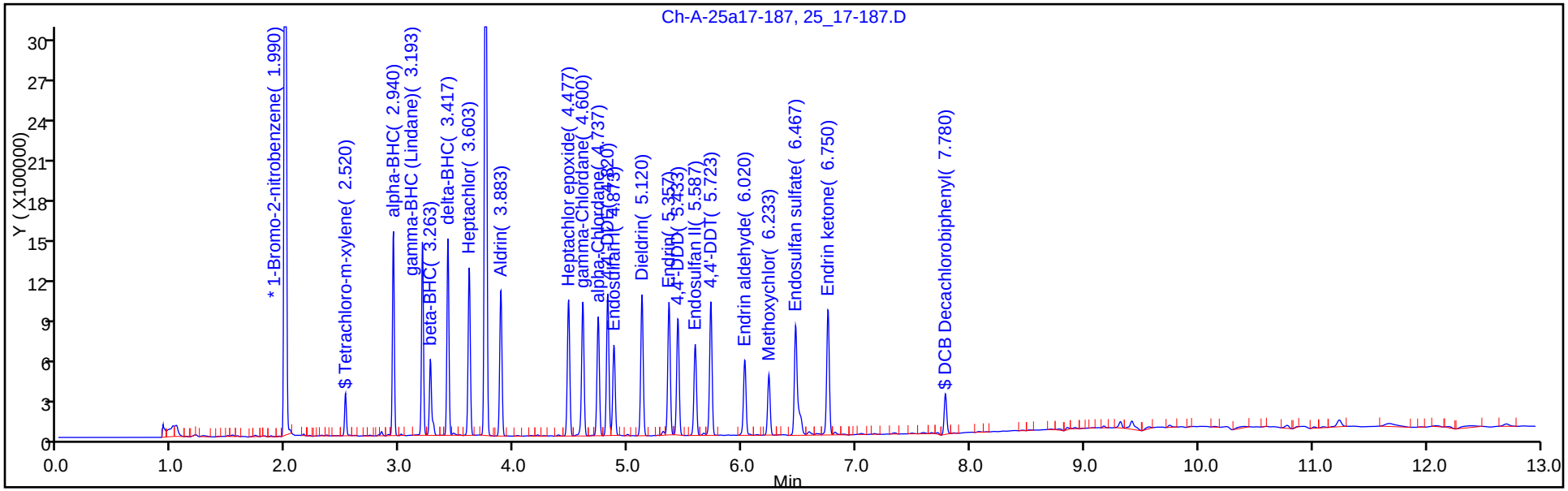
Report Date: 24-Jul-2017 07:46:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

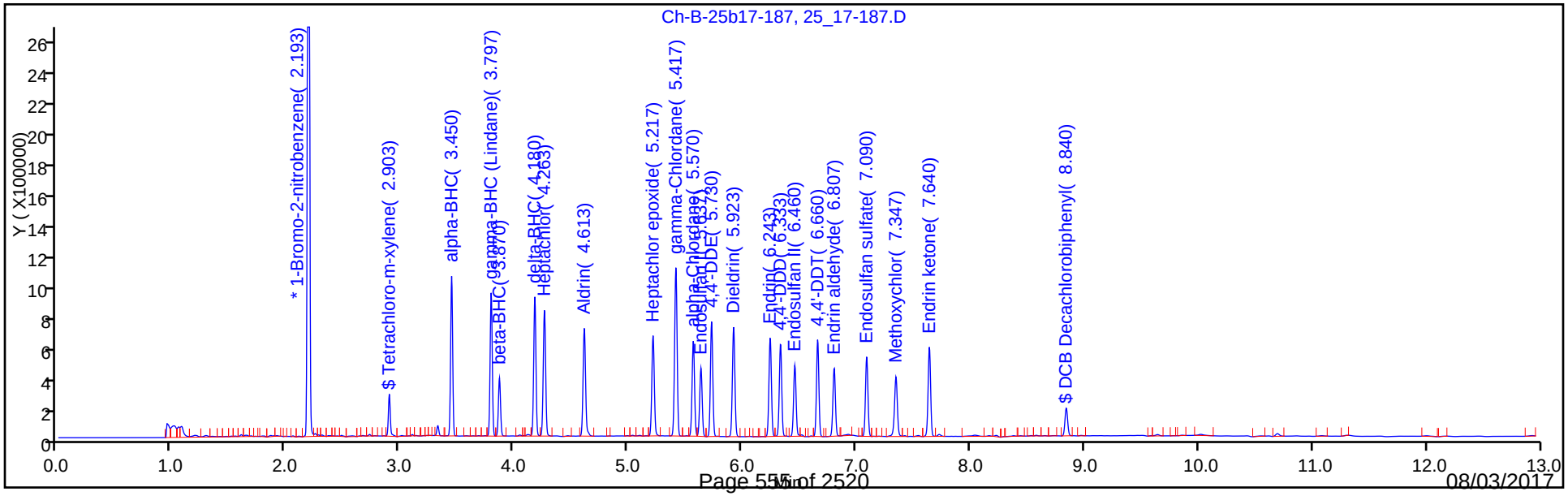
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-187.D

Injection Date:	22-Jul-2017 12:46:17	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-A MS			Worklist Smp#:	15
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD | Lab Sample ID: 480-121411-3 MSD

Matrix: Solid | Lab File ID: 25_17-188.D

Analysis Method: 8081B | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.38(g) | Date Analyzed: 07/22/2017 13:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	99		45-120
877-09-8	Tetrachloro-m-xylene	91		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-188.D
Lims ID: 480-121411-A-3-B MSD
Client ID: TP-15
Sample Type: MSD
Inject. Date: 22-Jul-2017 13:06:04 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:52:57 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 13:21:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.987	0.003	11490286	0.5000	0.5000	
2	2.193	2.193	0.000	8096914	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	387618	0.0200	0.0182	
2	2.900	2.903	-0.003	350172	0.0200	0.0172	
						RPD = 5.38	
5 Hexachlorobenzene							
1	2.830	2.807	0.023	1404670		0.0422	
2	3.327	3.323	0.004	62344		0.003180	
						RPD = 171.98	
6 alpha-BHC							
1	2.937	2.937	0.000	1758338	0.0500	0.0365	
2	3.447	3.450	-0.003	1315700	0.0500	0.0401	
						RPD = 9.54	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1835666	0.0500	0.0427	
2	3.797	3.797	0.000	1254535	0.0500	0.0446	
						RPD = 4.26	
8 beta-BHC							
1	3.260	3.260	0.000	926822	0.0500	0.0547	
2	3.867	3.870	-0.003	495586	0.0500	0.0416	
						RPD = 27.21	
9 delta-BHC							
1	3.413	3.417	-0.004	1980828	0.0500	0.0465	
2	4.177	4.180	-0.003	1234595	0.0500	0.0429	
						RPD = 8.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.600	3.603	-0.003	1948270	0.0500	0.0518	
2	4.263	4.267	-0.004	1232852	0.0500	0.0473	
						RPD = 9.24	
12 Aldrin							
1	3.880	3.880	0.000	1561281	0.0500	0.0406	
2	4.613	4.617	-0.004	1123031	0.0500	0.0434	
						RPD = 6.74	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	1495080	0.0500	0.0457	
2	5.217	5.217	0.000	1233999	0.0500	0.0575	
						RPD = 23.02	
16 gamma-Chlordane							
1	4.597	4.600	-0.003	1459070	0.0500	0.0385	
2	5.417	5.417	0.000	5233217	0.0500	0.2191	E
						RPD = 140.16	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1352468	0.0500	0.0380	
2	5.570	5.573	-0.003	937985	0.0500	0.0443	
						RPD = 15.42	
18 4,4'-DDE							
1	4.817	4.817	0.000	1629952	0.0500	0.0466	
2	5.730	5.733	-0.003	1114096	0.0500	0.0504	
						RPD = 7.97	
19 Endosulfan I							
1	4.870	4.873	-0.003	1010841	0.0500	0.0339	
2	5.637	5.637	0.000	677163	0.0500	0.0354	
						RPD = 4.30	
21 Dieldrin							
1	5.117	5.120	-0.003	1568955	0.0500	0.0469	
2	5.923	5.927	-0.004	1090563	0.0500	0.0490	
						RPD = 4.24	
23 Endrin							
1	5.353	5.357	-0.004	1528020	0.0500	0.0480	
2	6.243	6.247	-0.004	960296	0.0500	0.0468	
						RPD = 2.47	
24 4,4'-DDD							
1	5.433	5.433	0.000	1314571	0.0500	0.0463	
2	6.333	6.337	-0.004	904236	0.0500	0.0526	
						RPD = 12.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.583	5.587	-0.004	1026326	0.0500	0.0364	
2	6.460	6.463	-0.003	684184	0.0500	0.0384	
						RPD = 5.42	
28 4,4'-DDT							
1	5.720	5.723	-0.003	1507820	0.0500	0.0496	
2	6.660	6.663	-0.003	916226	0.0500	0.0530	
						RPD = 6.66	
29 Endrin aldehyde							
1	6.020	6.020	0.000	916929	0.0500	0.0402	
2	6.803	6.807	-0.004	668448	0.0500	0.0486	
						RPD = 18.92	
30 Methoxychlor							
1	6.230	6.233	-0.003	676225	0.0500	0.0511	
2	7.347	7.350	-0.003	343783	0.0500	0.0449	
						RPD = 12.98	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1686081	0.0500	0.0664	
2	7.090	7.093	-0.003	763784	0.0500	0.0491	
						RPD = 29.84	
33 Endrin ketone							
1	6.750	6.750	0.000	1484759	0.0500	0.0502	
2	7.640	7.643	-0.003	871968	0.0500	0.0497	
						RPD = 1.14	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	465465	0.0200	0.0198	
2	8.840	8.843	-0.003	292451	0.0200	0.0225	
						RPD = 12.84	
S 1 BHC, Total							
1						0.1804	
2						0.1692	
						RPD = 6.40	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

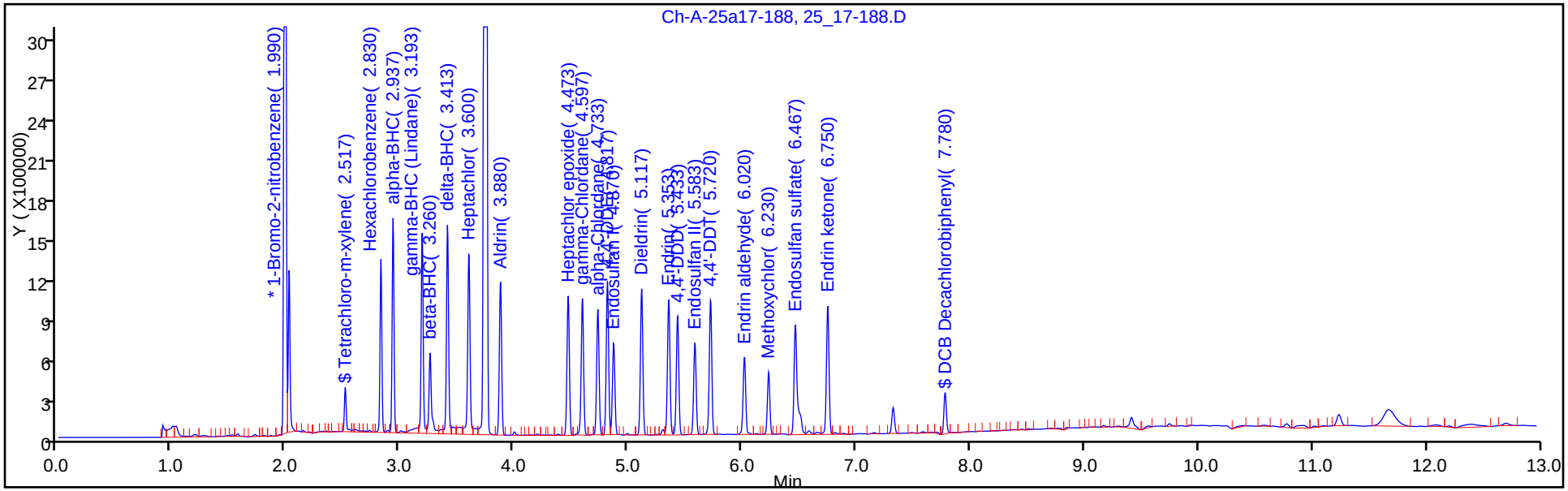
Report Date: 24-Jul-2017 10:33:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

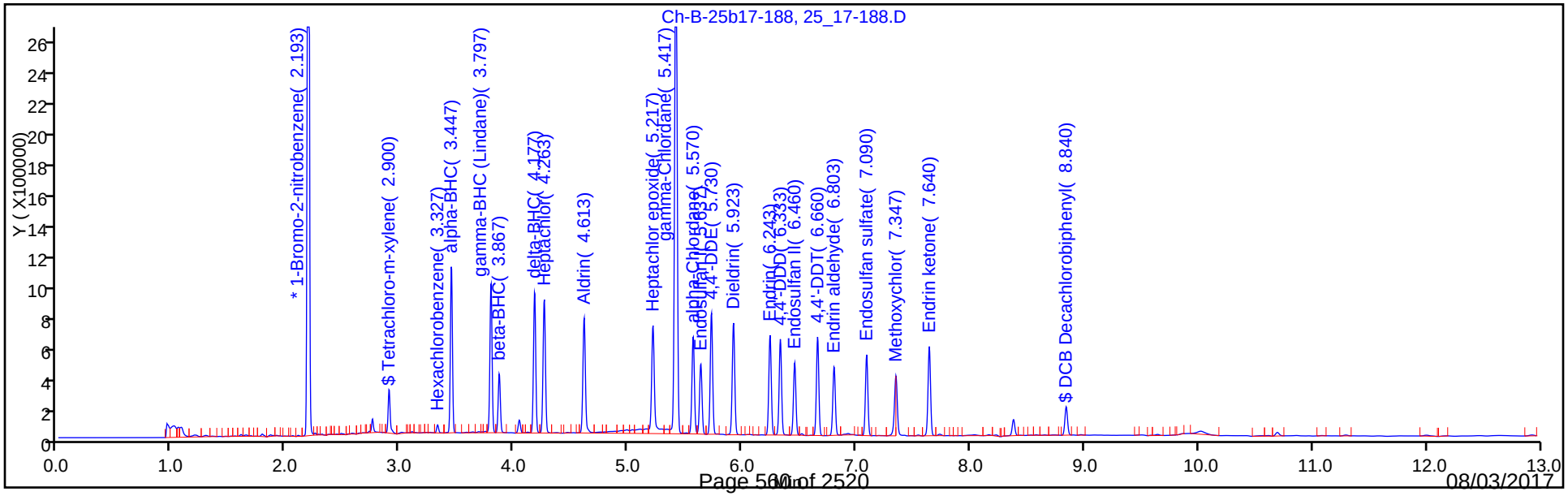
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-188.D

Injection Date:	22-Jul-2017 13:06:04	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-B MSD			Worklist Smp#:	16
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD | Lab Sample ID: 480-121411-3 MSD

Matrix: Solid | Lab File ID: 25_17-188.D

Analysis Method: 8081B | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/21/2017 06:42

Sample wt/vol: 30.38(g) | Date Analyzed: 07/22/2017 13:06

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368232 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	20.7		2.0	0.38
72-55-9	4,4'-DDE	19.9		2.0	0.41
50-29-3	4,4'-DDT	20.9		2.0	0.46
309-00-2	Aldrin	17.1		2.0	0.49
319-84-6	alpha-BHC	15.8		2.0	0.36
5103-71-9	alpha-Chlordane	17.5		2.0	0.98
319-85-7	beta-BHC	16.4		2.0	0.36
319-86-8	delta-BHC	16.9		2.0	0.37
60-57-1	Dieldrin	19.3		2.0	0.47
959-98-8	Endosulfan I	14.0		2.0	0.38
33213-65-9	Endosulfan II	15.1		2.0	0.36
1031-07-8	Endosulfan sulfate	19.4		2.0	0.37
72-20-8	Endrin	18.5		2.0	0.39
7421-93-4	Endrin aldehyde	19.2		2.0	0.50
53494-70-5	Endrin ketone	19.6		2.0	0.49
58-89-9	gamma-BHC (Lindane)	17.6		2.0	0.36
5103-74-2	gamma-Chlordane	86.4		2.0	0.63
76-44-8	Heptachlor	18.6		2.0	0.43
1024-57-3	Heptachlor epoxide	22.7		2.0	0.51
72-43-5	Methoxychlor	17.7		2.0	0.40
8001-35-2	Toxaphene	ND		20	11

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	112		45-120
877-09-8	Tetrachloro-m-xylene	86		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-188.D
Lims ID: 480-121411-A-3-B MSD
Client ID: TP-15
Sample Type: MSD
Inject. Date: 22-Jul-2017 13:06:04 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 24-Jul-2017 07:52:57 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK016

First Level Reviewer: salversonj Date: 22-Jul-2017 13:21:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.990	1.987	0.003	11490286	0.5000	0.5000	
2	2.193	2.193	0.000	8096914	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.517	2.517	0.000	387618	0.0200	0.0182	
2	2.900	2.903	-0.003	350172	0.0200	0.0172	
						RPD = 5.38	
5 Hexachlorobenzene							
1	2.830	2.807	0.023	1404670		0.0422	
2	3.327	3.323	0.004	62344		0.003180	
						RPD = 171.98	
6 alpha-BHC							
1	2.937	2.937	0.000	1758338	0.0500	0.0365	
2	3.447	3.450	-0.003	1315700	0.0500	0.0401	
						RPD = 9.54	
7 gamma-BHC (Lindane)							
1	3.193	3.190	0.003	1835666	0.0500	0.0427	
2	3.797	3.797	0.000	1254535	0.0500	0.0446	
						RPD = 4.26	
8 beta-BHC							
1	3.260	3.260	0.000	926822	0.0500	0.0547	
2	3.867	3.870	-0.003	495586	0.0500	0.0416	
						RPD = 27.21	
9 delta-BHC							
1	3.413	3.417	-0.004	1980828	0.0500	0.0465	
2	4.177	4.180	-0.003	1234595	0.0500	0.0429	
						RPD = 8.07	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.600	3.603	-0.003	1948270	0.0500	0.0518	
2	4.263	4.267	-0.004	1232852	0.0500	0.0473	
						RPD = 9.24	
12 Aldrin							
1	3.880	3.880	0.000	1561281	0.0500	0.0406	
2	4.613	4.617	-0.004	1123031	0.0500	0.0434	
						RPD = 6.74	
14 Heptachlor epoxide							
1	4.473	4.473	0.000	1495080	0.0500	0.0457	
2	5.217	5.217	0.000	1233999	0.0500	0.0575	
						RPD = 23.02	
16 gamma-Chlordane							
1	4.597	4.600	-0.003	1459070	0.0500	0.0385	
2	5.417	5.417	0.000	5233217	0.0500	0.2191	E
						RPD = 140.16	
17 alpha-Chlordane							
1	4.733	4.733	0.000	1352468	0.0500	0.0380	
2	5.570	5.573	-0.003	937985	0.0500	0.0443	
						RPD = 15.42	
18 4,4'-DDE							
1	4.817	4.817	0.000	1629952	0.0500	0.0466	
2	5.730	5.733	-0.003	1114096	0.0500	0.0504	
						RPD = 7.97	
19 Endosulfan I							
1	4.870	4.873	-0.003	1010841	0.0500	0.0339	
2	5.637	5.637	0.000	677163	0.0500	0.0354	
						RPD = 4.30	
21 Dieldrin							
1	5.117	5.120	-0.003	1568955	0.0500	0.0469	
2	5.923	5.927	-0.004	1090563	0.0500	0.0490	
						RPD = 4.24	
23 Endrin							
1	5.353	5.357	-0.004	1528020	0.0500	0.0480	
2	6.243	6.247	-0.004	960296	0.0500	0.0468	
						RPD = 2.47	
24 4,4'-DDD							
1	5.433	5.433	0.000	1314571	0.0500	0.0463	
2	6.333	6.337	-0.004	904236	0.0500	0.0526	
						RPD = 12.69	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.583	5.587	-0.004	1026326	0.0500	0.0364	
2	6.460	6.463	-0.003	684184	0.0500	0.0384	
						RPD = 5.42	
28 4,4'-DDT							
1	5.720	5.723	-0.003	1507820	0.0500	0.0496	
2	6.660	6.663	-0.003	916226	0.0500	0.0530	
						RPD = 6.66	
29 Endrin aldehyde							
1	6.020	6.020	0.000	916929	0.0500	0.0402	
2	6.803	6.807	-0.004	668448	0.0500	0.0486	
						RPD = 18.92	
30 Methoxychlor							
1	6.230	6.233	-0.003	676225	0.0500	0.0511	
2	7.347	7.350	-0.003	343783	0.0500	0.0449	
						RPD = 12.98	
32 Endosulfan sulfate							
1	6.467	6.467	0.000	1686081	0.0500	0.0664	
2	7.090	7.093	-0.003	763784	0.0500	0.0491	
						RPD = 29.84	
33 Endrin ketone							
1	6.750	6.750	0.000	1484759	0.0500	0.0502	
2	7.640	7.643	-0.003	871968	0.0500	0.0497	
						RPD = 1.14	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.780	0.000	465465	0.0200	0.0198	
2	8.840	8.843	-0.003	292451	0.0200	0.0225	
						RPD = 12.84	
S 1 BHC, Total							
1						0.1804	
2						0.1692	
						RPD = 6.40	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

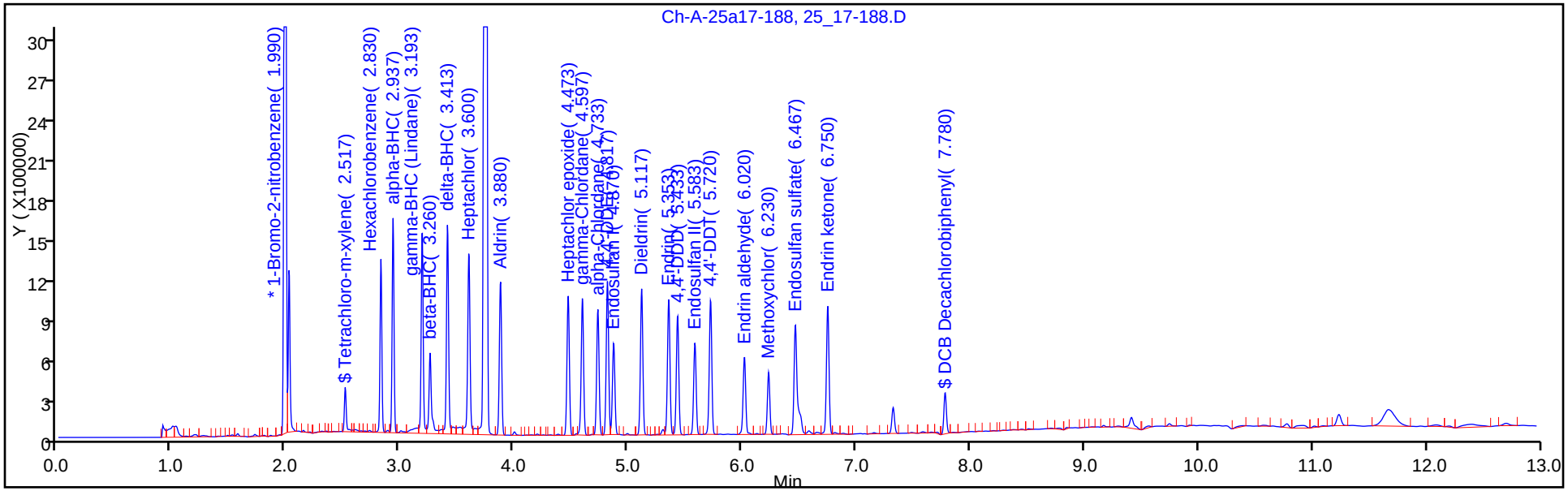
Report Date: 24-Jul-2017 10:33:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

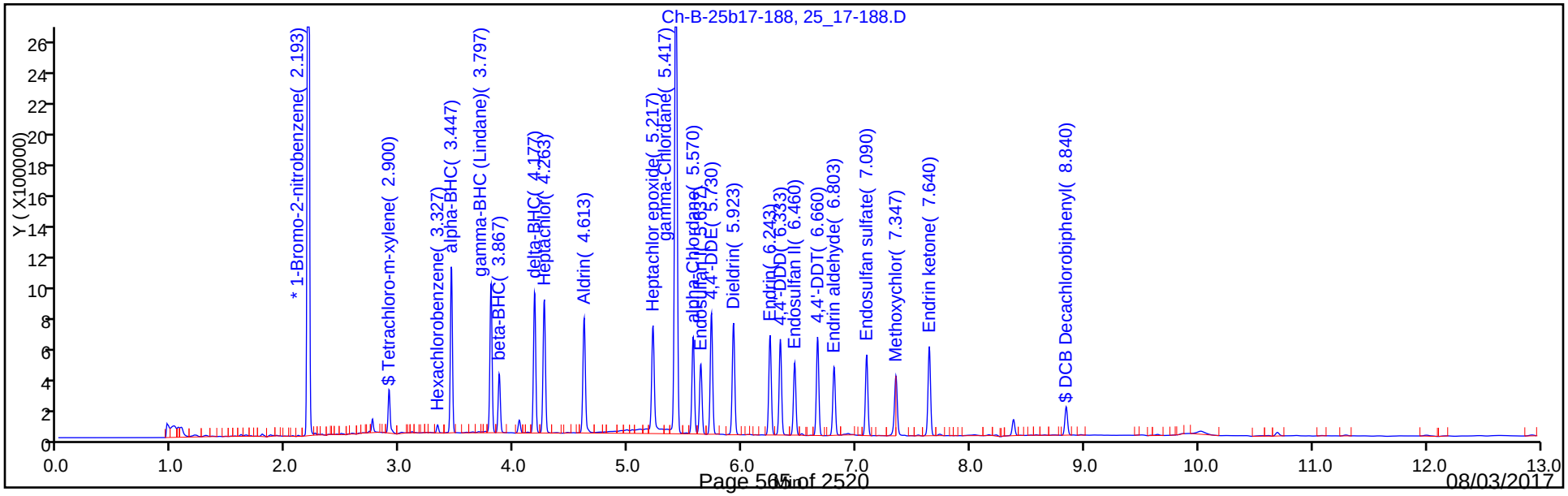
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170722-64256.b\25_17-188.D

Injection Date:	22-Jul-2017 13:06:04	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-B MSD			Worklist Smp#:	16
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 04/13/2017 10:23

Analysis Batch Number: 351826 End Date: 04/13/2017 18:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-351826/4 IC		04/13/2017 10:23	1		RTX-CLPI 0.53(mm)
STD1 480-351826/4 IC		04/13/2017 10:23	1		RTX-CLPII 0.53(mm)
STD2 480-351826/5 IC		04/13/2017 10:42	1		RTX-CLPI 0.53(mm)
STD2 480-351826/5 IC		04/13/2017 10:42	1		RTX-CLPII 0.53(mm)
STD3 480-351826/6 ICIS		04/13/2017 11:02	1		RTX-CLPI 0.53(mm)
STD3 480-351826/6 ICIS		04/13/2017 11:02	1		RTX-CLPII 0.53(mm)
STD4 480-351826/9 IC		04/13/2017 11:22	1		RTX-CLPI 0.53(mm)
STD4 480-351826/9 IC		04/13/2017 11:22	1		RTX-CLPII 0.53(mm)
STD5 480-351826/10 IC		04/13/2017 11:41	1		RTX-CLPI 0.53(mm)
STD5 480-351826/10 IC		04/13/2017 11:41	1		RTX-CLPII 0.53(mm)
STD1 480-351826/12 IC		04/13/2017 12:21	1		RTX-CLPI 0.53(mm)
STD1 480-351826/12 IC		04/13/2017 12:21	1		RTX-CLPII 0.53(mm)
STD2 480-351826/13 IC		04/13/2017 12:40	1		RTX-CLPI 0.53(mm)
STD2 480-351826/13 IC		04/13/2017 12:40	1		RTX-CLPII 0.53(mm)
STD3 480-351826/14 IC		04/13/2017 13:00	1		RTX-CLPI 0.53(mm)
STD3 480-351826/14 IC		04/13/2017 13:00	1		RTX-CLPII 0.53(mm)
STD4 480-351826/15 IC		04/13/2017 13:19	1		RTX-CLPI 0.53(mm)
STD4 480-351826/15 IC		04/13/2017 13:19	1		RTX-CLPII 0.53(mm)
STD5 480-351826/16 IC		04/13/2017 13:39	1		RTX-CLPI 0.53(mm)
STD5 480-351826/16 IC		04/13/2017 13:39	1		RTX-CLPII 0.53(mm)
ICV 480-351826/17		04/13/2017 13:59	1		RTX-CLPI 0.53(mm)
ICV 480-351826/17		04/13/2017 13:59	1		RTX-CLPII 0.53(mm)
STD1 480-351826/18 IC		04/13/2017 14:18	1	25_13-158.D	RTX-CLPI 0.53(mm)
STD1 480-351826/18 IC		04/13/2017 14:18	1	25_13-158.D	RTX-CLPII 0.53(mm)
STD2 480-351826/19 IC		04/13/2017 14:38	1	25_13-159.D	RTX-CLPI 0.53(mm)
STD2 480-351826/19 IC		04/13/2017 14:38	1	25_13-159.D	RTX-CLPII 0.53(mm)
STD3 480-351826/20 IC		04/13/2017 14:58	1	25_13-160.D	RTX-CLPI 0.53(mm)
STD3 480-351826/20 IC		04/13/2017 14:58	1	25_13-160.D	RTX-CLPII 0.53(mm)
STD4 480-351826/21 IC		04/13/2017 15:17	1	25_13-161.D	RTX-CLPI 0.53(mm)
STD4 480-351826/21 IC		04/13/2017 15:17	1	25_13-161.D	RTX-CLPII 0.53(mm)
STD5 480-351826/22 IC		04/13/2017 15:37	1	25_13-162.D	RTX-CLPI 0.53(mm)
STD5 480-351826/22 IC		04/13/2017 15:37	1	25_13-162.D	RTX-CLPII 0.53(mm)
ICV 480-351826/23		04/13/2017 15:56	1		RTX-CLPI 0.53(mm)
ICV 480-351826/23		04/13/2017 15:56	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 04/13/2017 10:23

Analysis Batch Number: 351826 End Date: 04/13/2017 18:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-351826/24 IC		04/13/2017 16:16	1		RTX-CLPI 0.53(mm)
STD1 480-351826/24 IC		04/13/2017 16:16	1		RTX-CLPII 0.53(mm)
STD2 480-351826/25 IC		04/13/2017 16:36	1		RTX-CLPI 0.53(mm)
STD2 480-351826/25 IC		04/13/2017 16:36	1		RTX-CLPII 0.53(mm)
STD3 480-351826/26 IC		04/13/2017 16:56	1		RTX-CLPI 0.53(mm)
STD3 480-351826/26 IC		04/13/2017 16:56	1		RTX-CLPII 0.53(mm)
STD4 480-351826/27 IC		04/13/2017 17:15	1		RTX-CLPI 0.53(mm)
STD4 480-351826/27 IC		04/13/2017 17:15	1		RTX-CLPII 0.53(mm)
STD5 480-351826/28 IC		04/13/2017 17:35	1		RTX-CLPI 0.53(mm)
STD5 480-351826/28 IC		04/13/2017 17:35	1		RTX-CLPII 0.53(mm)
ICV 480-351826/29		04/13/2017 17:54	1		RTX-CLPI 0.53(mm)
ICV 480-351826/29		04/13/2017 17:54	1		RTX-CLPII 0.53(mm)
ICV 480-351826/30		04/13/2017 18:14	1		RTX-CLPI 0.53(mm)
ICV 480-351826/30		04/13/2017 18:14	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 07/20/2017 11:23

Analysis Batch Number: 367911 End Date: 07/20/2017 15:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-367911/36 IC		07/20/2017 11:23	1	25_17-161.D	RTX-CLPI 0.53(mm)
STD1 480-367911/36 IC		07/20/2017 11:23	1	25_17-161.D	RTX-CLPII 0.53(mm)
STD2 480-367911/37 IC		07/20/2017 11:43	1	25_17-162.D	RTX-CLPI 0.53(mm)
STD2 480-367911/37 IC		07/20/2017 11:43	1	25_17-162.D	RTX-CLPII 0.53(mm)
STD3 480-367911/38 ICIS		07/20/2017 12:03	1	25_17-163.D	RTX-CLPI 0.53(mm)
STD3 480-367911/38 ICIS		07/20/2017 12:03	1	25_17-163.D	RTX-CLPII 0.53(mm)
STD4 480-367911/39 IC		07/20/2017 12:22	1	25_17-164.D	RTX-CLPI 0.53(mm)
STD4 480-367911/39 IC		07/20/2017 12:22	1	25_17-164.D	RTX-CLPII 0.53(mm)
STD5 480-367911/40 IC		07/20/2017 12:42	1	25_17-165.D	RTX-CLPI 0.53(mm)
STD5 480-367911/40 IC		07/20/2017 12:42	1	25_17-165.D	RTX-CLPII 0.53(mm)
ICV 480-367911/41		07/20/2017 13:02	1		RTX-CLPI 0.53(mm)
ICV 480-367911/41		07/20/2017 13:02	1		RTX-CLPII 0.53(mm)
STD1 480-367911/42 IC		07/20/2017 13:21	1		RTX-CLPI 0.53(mm)
STD1 480-367911/42 IC		07/20/2017 13:21	1		RTX-CLPII 0.53(mm)
STD2 480-367911/43 IC		07/20/2017 13:41	1		RTX-CLPI 0.53(mm)
STD2 480-367911/43 IC		07/20/2017 13:41	1		RTX-CLPII 0.53(mm)
STD3 480-367911/44 IC		07/20/2017 14:01	1		RTX-CLPI 0.53(mm)
STD3 480-367911/44 IC		07/20/2017 14:01	1		RTX-CLPII 0.53(mm)
STD4 480-367911/45 IC		07/20/2017 14:20	1		RTX-CLPI 0.53(mm)
STD4 480-367911/45 IC		07/20/2017 14:20	1		RTX-CLPII 0.53(mm)
STD5 480-367911/46 IC		07/20/2017 14:40	1		RTX-CLPI 0.53(mm)
STD5 480-367911/46 IC		07/20/2017 14:40	1		RTX-CLPII 0.53(mm)
ICV 480-367911/47		07/20/2017 15:00	1		RTX-CLPI 0.53(mm)
ICV 480-367911/47		07/20/2017 15:00	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 07/22/2017 09:49

Analysis Batch Number: 368232 End Date: 07/22/2017 18:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 480-368232/6		07/22/2017 09:49	1	25_17-178.D	RTX-CLPI 0.53(mm)
PEM 480-368232/6		07/22/2017 09:49	1	25_17-178.D	RTX-CLPII 0.53(mm)
CCVIS 480-368232/7		07/22/2017 10:08	1	25_17-179.D	RTX-CLPI 0.53(mm)
CCVIS 480-368232/7		07/22/2017 10:08	1	25_17-179.D	RTX-CLPII 0.53(mm)
CCV 480-368232/8		07/22/2017 10:28	1		RTX-CLPI 0.53(mm)
CCV 480-368232/8		07/22/2017 10:28	1		RTX-CLPII 0.53(mm)
CCV 480-368232/9		07/22/2017 10:48	1	25_17-181.D	RTX-CLPI 0.53(mm)
CCV 480-368232/9		07/22/2017 10:48	1	25_17-181.D	RTX-CLPII 0.53(mm)
CCV 480-368232/10		07/22/2017 11:07	1		RTX-CLPI 0.53(mm)
CCV 480-368232/10		07/22/2017 11:07	1		RTX-CLPII 0.53(mm)
MB 480-368029/1-A		07/22/2017 11:27	1	25_17-183.D	RTX-CLPI 0.53(mm)
MB 480-368029/1-A		07/22/2017 11:27	1	25_17-183.D	RTX-CLPII 0.53(mm)
LCS 480-368029/2-A		07/22/2017 11:47	1	25_17-184.D	RTX-CLPI 0.53(mm)
LCS 480-368029/2-A		07/22/2017 11:47	1	25_17-184.D	RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 12:07	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 12:07	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 12:26	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 12:26	1		RTX-CLPII 0.53(mm)
480-121411-3 MS		07/22/2017 12:46	1	25_17-187.D	RTX-CLPI 0.53(mm)
480-121411-3 MS		07/22/2017 12:46	1	25_17-187.D	RTX-CLPII 0.53(mm)
480-121411-3 MSD		07/22/2017 13:06	1	25_17-188.D	RTX-CLPI 0.53(mm)
480-121411-3 MSD		07/22/2017 13:06	1	25_17-188.D	RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 13:25	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 13:25	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 13:45	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 13:45	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 14:04	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 14:04	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 14:24	20		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 14:24	20		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 14:44	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 14:44	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 15:03	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 15:03	1		RTX-CLPII 0.53(mm)
480-121411-3		07/22/2017 15:23	1	25_17-195.D	RTX-CLPI 0.53(mm)
480-121411-3		07/22/2017 15:23	1	25_17-195.D	RTX-CLPII 0.53(mm)
480-121411-1		07/22/2017 15:43	1	25_17-196.D	RTX-CLPI 0.53(mm)
480-121411-1		07/22/2017 15:43	1	25_17-196.D	RTX-CLPII 0.53(mm)
480-121411-2		07/22/2017 16:03	1	25_17-197.D	RTX-CLPI 0.53(mm)
480-121411-2		07/22/2017 16:03	1	25_17-197.D	RTX-CLPII 0.53(mm)
480-121411-4		07/22/2017 16:22	1	25_17-198.D	RTX-CLPI 0.53(mm)
480-121411-4		07/22/2017 16:22	1	25_17-198.D	RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 16:42	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 16:42	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 17:01	1		RTX-CLPI 0.53(mm)

8081B

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 07/22/2017 09:49

Analysis Batch Number: 368232 End Date: 07/22/2017 18:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/22/2017 17:01	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 17:21	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 17:21	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 17:41	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 17:41	1		RTX-CLPII 0.53(mm)
PEM 480-368232/31		07/22/2017 18:00	1		RTX-CLPI 0.53(mm)
PEM 480-368232/31		07/22/2017 18:00	1		RTX-CLPII 0.53(mm)
CCV 480-368232/32		07/22/2017 18:20	1		RTX-CLPI 0.53(mm)
CCV 480-368232/32		07/22/2017 18:20	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/22/2017 18:40	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/22/2017 18:40	1		RTX-CLPII 0.53(mm)

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368029 Batch Start Date: 07/21/17 06:41 Batch Analyst: Myers, Carmela A

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00100	O8081pestspik 00036	AnalysisComment
MB 480-368029/1		3550C, 8081B		CALC NOT SET TO RUN	30.81 g	10 mL	1 mL		FLORISIL
LCS 480-368029/2		3550C, 8081B		CALC NOT SET TO RUN	30.75 g	10 mL	1 mL	1 mL	FLORISIL
480-121411-A-3 MS	TP-15	3550C, 8081B	T	CALC NOT SET TO RUN	30.52 g	10 mL	1 mL	1 mL	Clay/Sand
480-121411-A-3 MSD	TP-15	3550C, 8081B	T	CALC NOT SET TO RUN	30.38 g	10 mL	1 mL	1 mL	Clay/Sand
480-121411-A-3	TP-15	3550C, 8081B	T	CALC NOT SET TO RUN	30.61 g	10 mL	1 mL		Clay/Sand
480-121411-A-1	TP-07	3550C, 8081B	T	CALC NOT SET TO RUN	30.66 g	10 mL	1 mL		Clay/Soil
480-121411-A-2	TP-09	3550C, 8081B	T	CALC NOT SET TO RUN	30.39 g	10 mL	1 mL		Sand/Soil
480-121411-A-4	DUP	3550C, 8081B	T	CALC NOT SET TO RUN	30.72 g	10 mL	1 mL		Clay/Soil

Batch Notes	
Balance ID	Balance 5
Batch Comment	Filter paper lot # 9802837
Blank Soil Lot Number	3934401
Analyst ID - Concentration	CM, BK
Analyst ID - Clean Up	CM 7/21/17
Florisil ID	3650757
Na2SO4 ID	3934400
Nominal Amount Used	30 g
Prep Solvent ID	4123568/4149295
Prep Solvent Name	Hexane/Acetone
Prep Solvent Volume Used	300 mL
Person's name who did the prep	BK
Analyst ID - Reagent Drop Witness	CM
Analyst ID - Reagent Drop	CM
Perform Calculation (0=No, 1=Yes)	0
Vial ID	J27378

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368029 Batch Start Date: 07/21/17 06:41 Batch Analyst: Myers, Carmela A

Batch Method: 3550C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1	#	TCX2	#	DCBP1	#	DCBP2	#
TP-07	480-121411-1	122		122		122		142	
TP-09	480-121411-2	117		140		110		136	
TP-15	480-121411-3	133		125		128		135	
DUP	480-121411-4	136		117		126		94	
	MB 480-368288/1-A	132		159	X	116		133	
	MB 480-368612/1-A	159	X	136		157		135	
	LCS 480-368288/2-A	153		147		154		162	
	LCS 480-368612/2-A	170	X	136		186	X	144	
TP-15 MS	480-121411-3 MS	158	X	159	X	159		177	X
TP-15 MSD	480-121411-3 MSD	132		131		131		147	

	QC LIMITS
TCX = Tetrachloro-m-xylene	60-154
DCBP = DCB Decachlorobiphenyl	65-174

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_28-244.D

Lab ID: LCS 480-368288/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	1.87	2.96	158	51-185	
PCB-1260	1.87	2.85	152	61-184	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 7_36-227.D

Lab ID: LCS 480-368612/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	2.26	3.51	155	51-185	
PCB-1260	2.26	3.24	143	61-184	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_28-245.D

Lab ID: 480-121411-3 MS Client ID: TP-15 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
PCB-1016	2.34	ND	3.64	155	50-177	
PCB-1260	2.34	ND	3.53	151	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 6_28-246.D

Lab ID: 480-121411-3 MSD Client ID: TP-15 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	2.72	2.36	87	43	50	50-177	
PCB-1260	2.72	2.18	80	47	50	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: MB 480-368288/1-A

Matrix: Solid Date Extracted: 07/24/2017 07:43

Lab File ID:(1) 6_28-243.D Lab File ID:(2) 6_28-243.D

Date Analyzed:(1) 07/24/2017 22:44 Date Analyzed:(2) 07/24/2017 22:44

Instrument ID:(1) HP6890-6 Instrument ID:(2) HP6890-6

GC Column:(1) ZB-5 ID: 0.53(mm) GC Column:(2) ZB-35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-368288/2-A	07/24/2017 23:00	07/24/2017 23:00
TP-15 MS	480-121411-3 MS	07/24/2017 23:16	07/24/2017 23:16
TP-15 MSD	480-121411-3 MSD	07/24/2017 23:32	07/24/2017 23:32
TP-15	480-121411-3	07/24/2017 23:48	07/24/2017 23:48
TP-07	480-121411-1	07/25/2017 00:03	07/25/2017 00:03
TP-09	480-121411-2	07/25/2017 00:19	07/25/2017 00:19

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: MB 480-368612/1-A

Matrix: Solid Date Extracted: 07/25/2017 14:16

Lab File ID:(1) 7_36-226.D Lab File ID:(2) 7_36-226.D

Date Analyzed:(1) 07/26/2017 13:35 Date Analyzed:(2) 07/26/2017 13:35

Instrument ID:(1) HP6890-7 Instrument ID:(2) HP6890-7

GC Column:(1) ZB-5 ID: 0.53(mm) GC Column:(2) ZB-35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-368612/2-A	07/26/2017 13:51	07/26/2017 13:51
DUP	480-121411-4	07/26/2017 18:24	07/26/2017 18:24

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: ICIS 480-363130/6 Date Analyzed: 06/21/2017 12:10

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 6_27-050.D Heated Purge: (Y/N) N

Calibration ID: 30751

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		13763753	1.02				
UPPER LIMIT		27527506	1.07				
LOWER LIMIT		6881877	0.97				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368358/4		14730023	1.00				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: ICIS 480-363130/6 Date Analyzed: 06/21/2017 12:10

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 6_27-050.D Heated Purge: (Y/N) N

Calibration ID: 30752

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		183595035	1.12				
UPPER LIMIT		367190070	1.17				
LOWER LIMIT		91797518	1.07				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368358/4		196142590	1.10				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: CCVIS 480-368358/4 Date Analyzed: 07/24/2017 14:48

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 6_28-232.D Heated Purge: (Y/N) N

Calibration ID: 30751

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		14730023	1.00				
UPPER LIMIT		29460046	1.05				
LOWER LIMIT		7365012	0.95				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368358/5		14729585	1.00				
CCV 480-368358/6		13385340	1.00				
CCV 480-368358/7		14963529	1.00				
CCV 480-368358/8		15352291	1.00				
MB 480-368288/1-A		14430476	1.00				
LCS 480-368288/2-A		12667478	1.00				
480-121411-3 MS	TP-15 MS	13055262	1.00				
480-121411-3 MSD	TP-15 MSD	13795029	1.00				
480-121411-3	TP-15	12575020	1.00				
480-121411-1	TP-07	14401453	1.00				
480-121411-2	TP-09	15848554	1.00				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: CCVIS 480-368358/4 Date Analyzed: 07/24/2017 14:48

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 6_28-232.D Heated Purge: (Y/N) N

Calibration ID: 30752

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		196142590	1.10				
UPPER LIMIT		392285180	1.15				
LOWER LIMIT		98071295	1.05				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368358/5		195400447	1.10				
CCV 480-368358/6		190887117	1.10				
CCV 480-368358/7		201906879	1.10				
CCV 480-368358/8		197352803	1.10				
MB 480-368288/1-A		199660854	1.10				
LCS 480-368288/2-A		187333946	1.10				
480-121411-3 MS	TP-15 MS	184735606	1.10				
480-121411-3 MSD	TP-15 MSD	191284626	1.10				
480-121411-3	TP-15	182991685	1.10				
480-121411-1	TP-07	189440225	1.10				
480-121411-2	TP-09	193553233	1.10				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: ICIS 480-349118/9 Date Analyzed: 03/28/2017 13:16

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 7_28-022.D Heated Purge: (Y/N) N

Calibration ID: 30036

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		14198667	1.17				
UPPER LIMIT		28397334	1.22				
LOWER LIMIT		7099334	1.12				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368775/6		15388831	1.07				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: ICIS 480-349118/9 Date Analyzed: 03/28/2017 13:16

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 7_28-022.D Heated Purge: (Y/N) N

Calibration ID: 30037

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		25919091	1.05				
UPPER LIMIT		51838182	1.10				
LOWER LIMIT		12959546	1.00				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368775/6		39385935	0.94				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: CCVIS 480-368775/6 Date Analyzed: 07/26/2017 11:58

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 7_36-220.D Heated Purge: (Y/N) N

Calibration ID: 30060

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		15388831	1.07				
UPPER LIMIT		30777662	1.12				
LOWER LIMIT		7694416	1.02				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368775/7		15324796	1.07				
CCV 480-368775/8		15906645	1.07				
CCV 480-368775/9		16348565	1.07				
CCV 480-368775/10		16039504	1.07				
MB 480-368612/1-A		13475209	1.07				
LCS 480-368612/2-A		12384866	1.07				
480-121411-4	DUP	13897997	1.07				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Sample No.: CCVIS 480-368775/6 Date Analyzed: 07/26/2017 11:58

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 7_36-220.D Heated Purge: (Y/N) N

Calibration ID: 30061

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		39385935	0.94				
UPPER LIMIT		78771870	0.99				
LOWER LIMIT		19692968	0.89				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368775/7		38531583	0.94				
CCV 480-368775/8		40378971	0.94				
CCV 480-368775/9		42030383	0.94				
CCV 480-368775/10		41177745	0.94				
MB 480-368612/1-A		37396257	0.94				
LCS 480-368612/2-A		34904387	0.94				
480-121411-4	DUP	37843322	0.94				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS Lab Sample ID: 480-121411-3 MS

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 07/24/2017 23:16 Date Analyzed (2): 07/24/2017 23:16

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.49	2.46	2.52	3.38	3.64	14.2
		2	2.64	2.61	2.67	3.62		
		3	2.84	2.81	2.87	3.65		
		4	2.92	2.89	2.95	3.80		
		5	2.98	2.96	3.02	3.74		
	2	1	2.49	2.46	2.52	4.45	4.19	
		2	2.81	2.78	2.84	4.10		
		3	2.93	2.91	2.97	4.04		
		4	3.08	3.05	3.11	4.10		
		5	3.32	3.29	3.35	4.27		
PCB-1260	1	1	4.69	4.66	4.72	3.59	3.53	31.9
		2	4.82	4.79	4.85	3.21		
		3	5.01	4.98	5.04	3.82		
		4	5.20	5.17	5.23	3.44		
		5	5.44	5.41	5.47	3.61		
	2	1	4.69	4.67	4.73	4.29	4.87	
		2	4.74	4.71	4.77	5.50		
		3	5.00	4.98	5.04	5.29		
		4	5.14	5.11	5.17	4.44		
		5	5.48	5.45	5.51	4.85		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD Lab Sample ID: 480-121411-3 MSD

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 07/24/2017 23:32 Date Analyzed (2): 07/24/2017 23:32

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.49	2.46	2.52	2.21	2.36	18.6
		2	2.64	2.61	2.67	2.36		
		3	2.84	2.81	2.87	2.35		
		4	2.92	2.89	2.95	2.47		
		5	2.98	2.96	3.02	2.40		
	2	1	2.49	2.46	2.52	3.00	2.84	
		2	2.82	2.78	2.84	2.74		
		3	2.94	2.91	2.97	2.79		
		4	3.08	3.05	3.11	2.77		
		5	3.32	3.29	3.35	2.92		
PCB-1260	1	1	4.69	4.66	4.72	2.24	2.18	38.5
		2	4.82	4.79	4.85	1.97		
		3	5.00	4.98	5.04	2.41		
		4	5.20	5.17	5.23	2.07		
		5	5.44	5.41	5.47	2.20		
	2	1	4.69	4.67	4.73	2.83	3.22	
		2	4.74	4.71	4.77	3.68		
		3	5.00	4.98	5.04	3.65		
		4	5.14	5.11	5.17	2.90		
		5	5.48	5.45	5.51	3.02		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-121411-4

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 07/26/2017 18:24 Date Analyzed (2): 07/26/2017 18:24

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1254	1	2	4.08	4.05	4.11	0.210	0.41	17.3
		3	4.16	4.13	4.19	0.276		
		4	4.36	4.33	4.39	0.448		
		5	4.76	4.74	4.80	0.995		
	2	2	3.64	3.61	3.67	0.153	0.34	
		3	3.73	3.70	3.76	0.246		
		4	3.87	3.84	3.90	0.349		
		5	4.30	4.27	4.33	0.842		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-368288/2-A

Instrument ID (1): HP6890-6 Instrument ID (2): HP6890-6

Date Analyzed (1): 07/24/2017 23:00 Date Analyzed (2): 07/24/2017 23:00

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.49	2.46	2.52	2.85	2.96	11.2
		2	2.64	2.61	2.67	2.97		
		3	2.84	2.81	2.87	2.95		
		4	2.92	2.89	2.95	3.06		
		5	2.98	2.96	3.02	3.00		
	2	1	2.49	2.46	2.52	3.49	3.32	
		2	2.81	2.78	2.84	3.28		
		3	2.93	2.91	2.97	3.30		
		4	3.08	3.05	3.11	3.17		
		5	3.32	3.29	3.35	3.35		
PCB-1260	1	1	4.69	4.66	4.72	2.93	2.85	33.7
		2	4.82	4.79	4.85	2.60		
		3	5.01	4.98	5.04	3.05		
		4	5.20	5.17	5.23	2.79		
		5	5.44	5.41	5.47	2.86		
	2	1	4.69	4.67	4.73	3.42	4.00	
		2	4.74	4.71	4.77	4.56		
		3	5.00	4.98	5.04	4.59		
		4	5.14	5.11	5.17	3.69		
		5	5.48	5.45	5.51	3.75		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-368612/2-A

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 07/26/2017 13:51 Date Analyzed (2): 07/26/2017 13:51

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.54	2.51	2.57	3.60	3.89	10.0
		2	2.69	2.66	2.72	3.70		
		3	2.90	2.86	2.92	4.03		
		4	2.98	2.95	3.01	4.09		
		5	3.04	3.01	3.07	4.01		
	2	1	2.16	2.13	2.19	3.49	3.51	
		2	2.47	2.44	2.50	3.46		
		3	2.57	2.54	2.60	3.57		
		4	2.66	2.63	2.69	3.50		
		5	2.94	2.91	2.97	3.55		
PCB-1260	1	1	4.76	4.73	4.79	4.14	4.07	22.9
		2	4.89	4.86	4.92	4.15		
		3	5.08	5.05	5.11	4.02		
		4	5.29	5.26	5.32	4.13		
		5	5.53	5.50	5.56	3.93		
	2	1	4.30	4.27	4.33	3.44	3.24	
		2	4.35	4.32	4.38	3.16		
		3	4.67	4.64	4.70	3.15		
		4	4.75	4.72	4.78	3.18		
		5	5.08	5.04	5.10	3.26		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-07 | Lab Sample ID: 480-121411-1

Matrix: Solid | Lab File ID: 6_28-248.D

Analysis Method: 8082A | Date Collected: 07/20/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.17(g) | Date Analyzed: 07/25/2017 00:03

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 20.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.29	0.057
11104-28-2	PCB-1221	ND		0.29	0.057
11141-16-5	PCB-1232	ND		0.29	0.057
53469-21-9	PCB-1242	ND		0.29	0.057
12672-29-6	PCB-1248	ND		0.29	0.057
11097-69-1	PCB-1254	ND		0.29	0.14
11096-82-5	PCB-1260	ND		0.29	0.14
37324-23-5	PCB-1262	ND		0.29	0.14
11100-14-4	PCB-1268	ND		0.29	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	122		60-154
2051-24-3	DCB Decachlorobiphenyl	122		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-248.D
Lims ID: 480-121411-A-1-C
Client ID: TP-07
Sample Type: Client
Inject. Date: 25-Jul-2017 00:03:59 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:57:17 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:57:17

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.999	0.999	0.000	14401453	0.5000	
2	1.101	1.103	-0.001	189440225	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.895	1.894	0.001	602946	0.0243	
2	1.726	1.725	0.001	9137460	0.0243	
					RPD = 0.02	
8 PCB-1254						M
1	3.798	3.798	0.000	12608	0.009104	
1	4.097	4.096	0.001	23519	0.0153	
1	4.287	4.289	-0.002	25193	0.0155	
1	4.506	4.510	-0.004	13216	0.0146	
1	4.688	4.689	-0.001	20007	0.0180	
		Average of Peak Amounts =			0.0145	
2	3.648	3.648	0.000	159550	0.001806	M
2	3.732	3.733	0.000	239372	0.0128	M
2	4.124	4.127	-0.003	267180	0.0152	M
2	4.268	4.256	0.012	569556	0.0237	M
2	4.695	4.695	0.000	842264	0.0718	M
		Average of Peak Amounts =			0.0251	
					RPD = 53.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1260						M
1	4.688	4.689	-0.001	20007	0.007970	
1	4.818	4.816	0.002	2244	0.002610	
1	5.005	5.005	0.000	2933	-0.005392	
1	5.206	5.204	0.002	10207	0.002535	
1	5.443	5.442	0.001	8262	0.002084	
		Average of Peak Amounts =			0.001961	
2	4.695	4.695	0.000	842264	0.0718	M
2	4.742	4.741	0.001	262629	0.0158	M
2	5.011	5.006	0.005	852180	0.1018	M
2	5.145	5.142	0.003	398851	0.0147	M
2	5.478	5.478	0.000	616970	0.0501	M
		Average of Peak Amounts =			0.0508	
					RPD = 185.14	
9 1260 Res 1						M
1	5.443	5.442	0.001	8262	NR	
2	5.011	5.006	0.005	852180	NR	M
					RPD = NaN	
14 1260 Res 2						M
1	5.542	5.544	-0.002	6644	NR	
2	5.072	5.073	-0.001	332820	NR	M
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.452	6.453	0.000	311949	0.0244	
2	6.386	6.387	-0.001	3122908	0.0284	
					RPD = 14.99	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

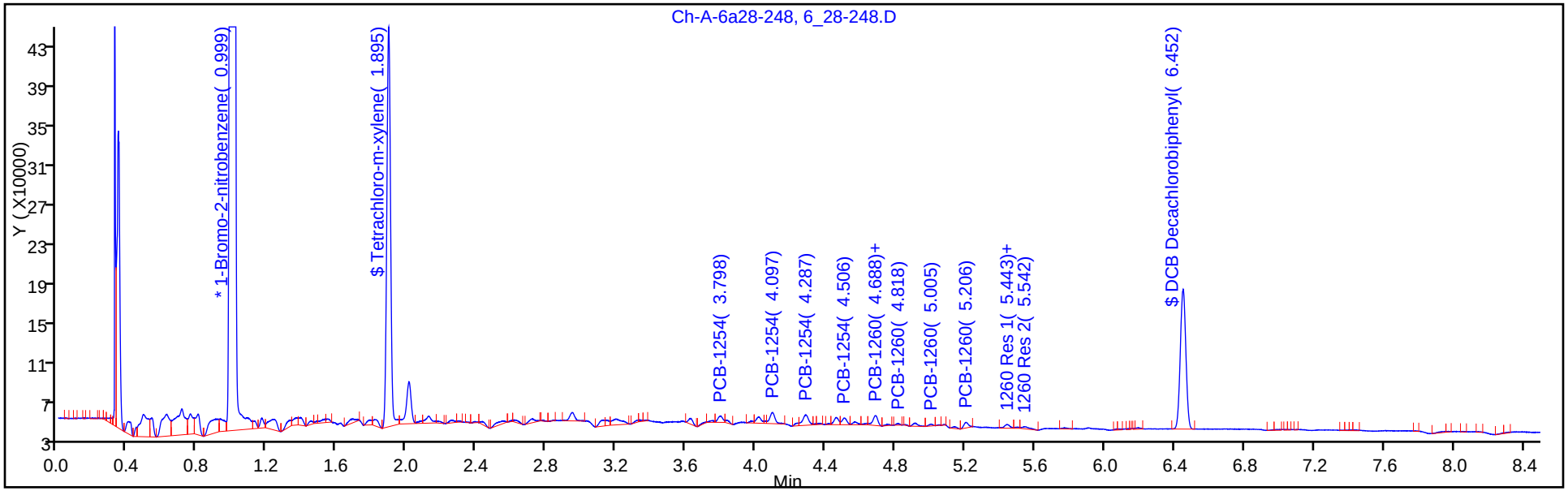
Report Date: 25-Jul-2017 10:57:17 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

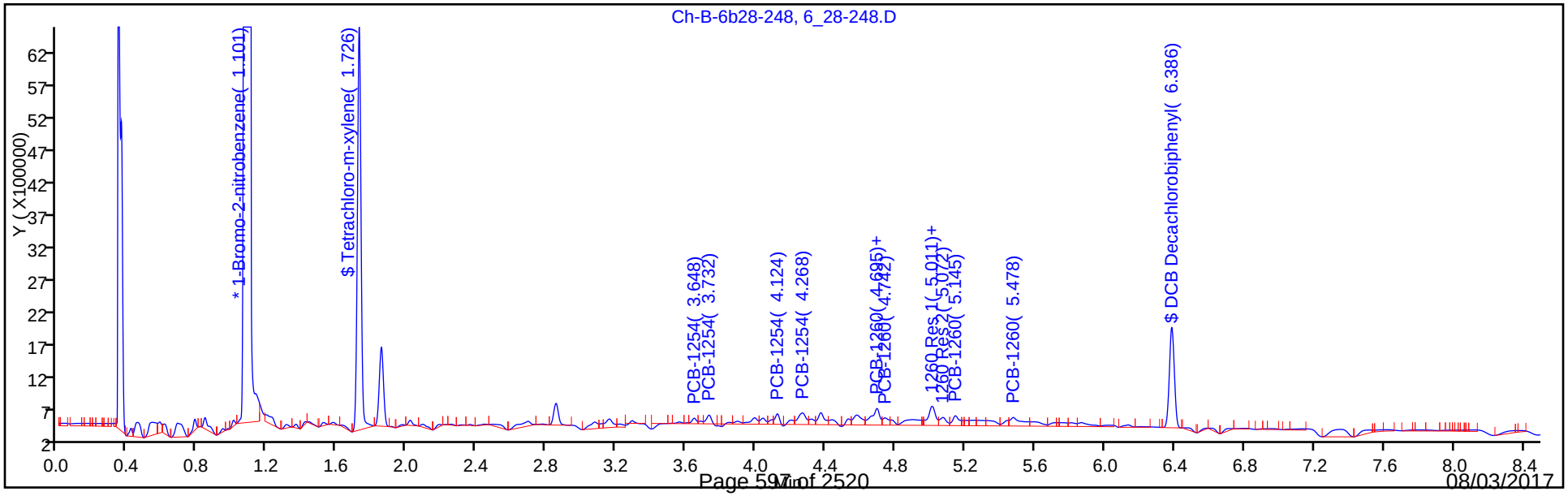
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-248.D

Injection Date:	25-Jul-2017 00:03:59	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-1-C	Lab Sample ID:	480-121411-1	Worklist Smp#:	20
Client ID:	TP-07				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-07 | Lab Sample ID: 480-121411-1

Matrix: Solid | Lab File ID: 6_28-248.D

Analysis Method: 8082A | Date Collected: 07/20/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.17(g) | Date Analyzed: 07/25/2017 00:03

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 20.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	122		60-154
2051-24-3	DCB Decachlorobiphenyl	142		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-248.D
Lims ID: 480-121411-A-1-C
Client ID: TP-07
Sample Type: Client
Inject. Date: 25-Jul-2017 00:03:59 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:57:17 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:57:17

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.999	0.999	0.000	14401453	0.5000	
2	1.101	1.103	-0.001	189440225	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.895	1.894	0.001	602946	0.0243	
2	1.726	1.725	0.001	9137460	0.0243	
					RPD = 0.02	
8 PCB-1254						M
1	3.798	3.798	0.000	12608	0.009104	
1	4.097	4.096	0.001	23519	0.0153	
1	4.287	4.289	-0.002	25193	0.0155	
1	4.506	4.510	-0.004	13216	0.0146	
1	4.688	4.689	-0.001	20007	0.0180	
		Average of Peak Amounts =			0.0145	
2	3.648	3.648	0.000	159550	0.001806	M
2	3.732	3.733	0.000	239372	0.0128	M
2	4.124	4.127	-0.003	267180	0.0152	M
2	4.268	4.256	0.012	569556	0.0237	M
2	4.695	4.695	0.000	842264	0.0718	M
		Average of Peak Amounts =			0.0251	
					RPD = 53.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1260						M
1	4.688	4.689	-0.001	20007	0.007970	
1	4.818	4.816	0.002	2244	0.002610	
1	5.005	5.005	0.000	2933	-0.005392	
1	5.206	5.204	0.002	10207	0.002535	
1	5.443	5.442	0.001	8262	0.002084	
		Average of Peak Amounts =			0.001961	
2	4.695	4.695	0.000	842264	0.0718	M
2	4.742	4.741	0.001	262629	0.0158	M
2	5.011	5.006	0.005	852180	0.1018	M
2	5.145	5.142	0.003	398851	0.0147	M
2	5.478	5.478	0.000	616970	0.0501	M
		Average of Peak Amounts =			0.0508	
					RPD = 185.14	
9 1260 Res 1						M
1	5.443	5.442	0.001	8262	NR	
2	5.011	5.006	0.005	852180	NR	M
					RPD = NaN	
14 1260 Res 2						M
1	5.542	5.544	-0.002	6644	NR	
2	5.072	5.073	-0.001	332820	NR	M
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.452	6.453	0.000	311949	0.0244	
2	6.386	6.387	-0.001	3122908	0.0284	
					RPD = 14.99	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

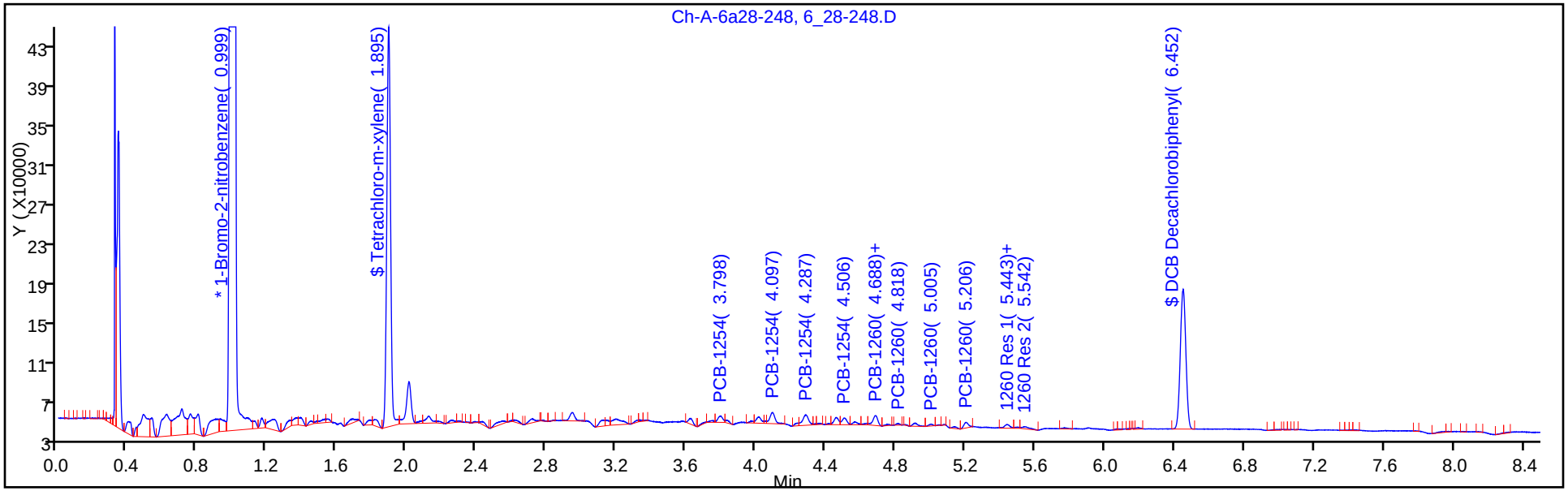
Report Date: 25-Jul-2017 10:57:18 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

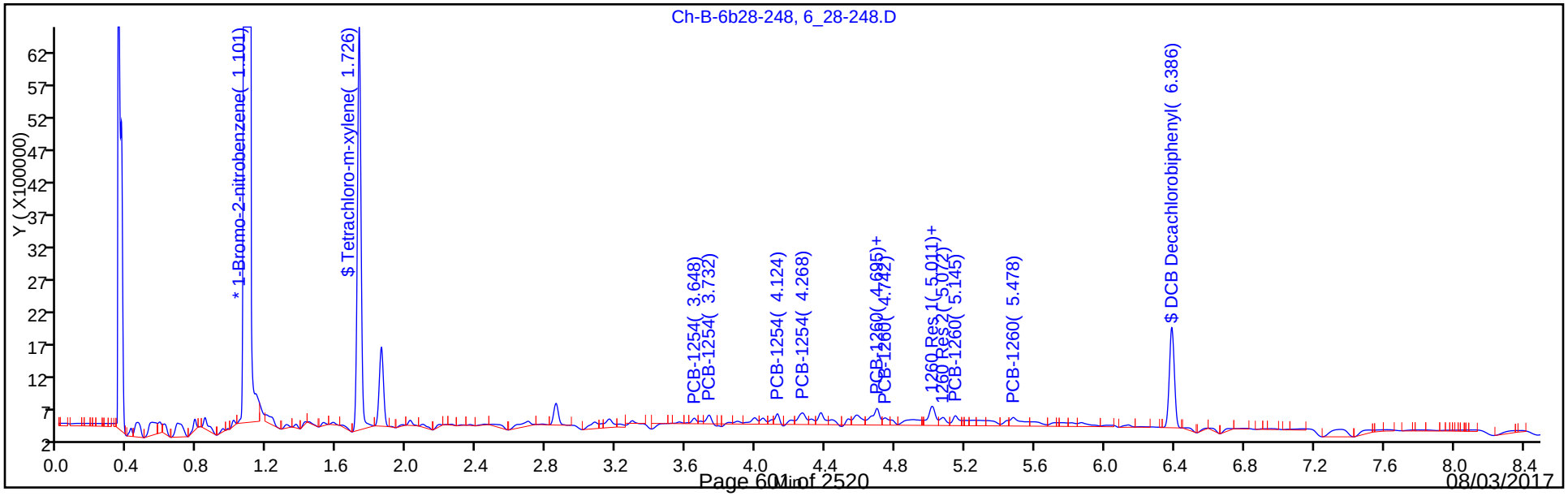
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-248.D

Injection Date:	25-Jul-2017 00:03:59	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-1-C	Lab Sample ID:	480-121411-1	Worklist Smp#:	20
Client ID:	TP-07				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



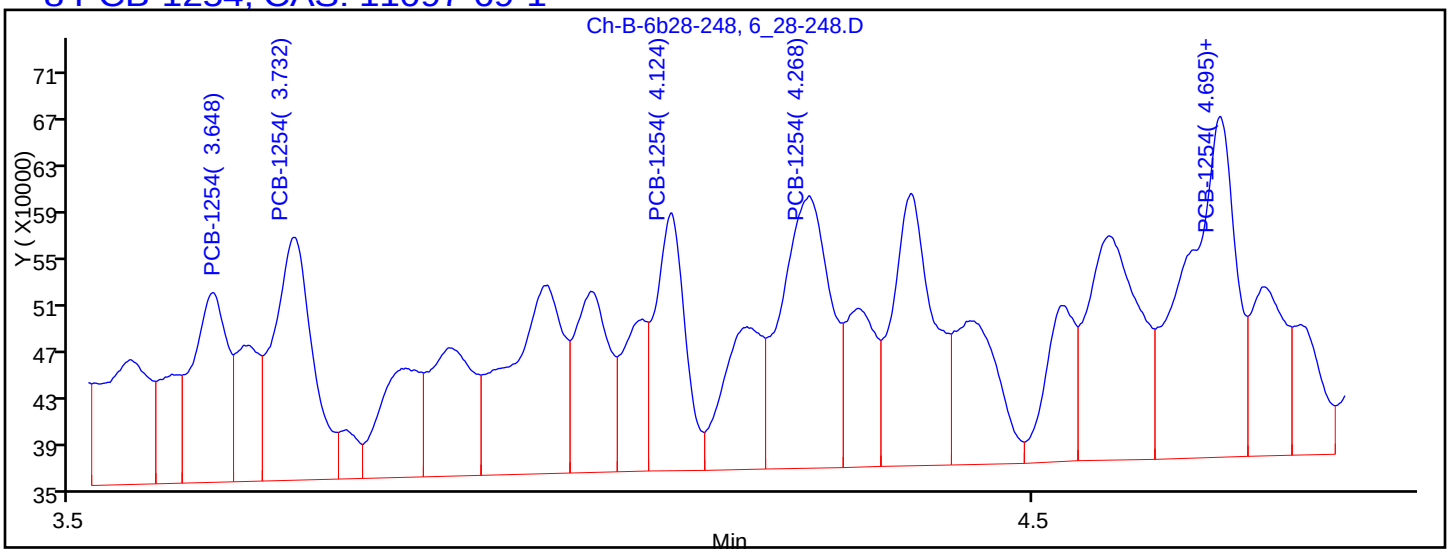
Report Date: 25-Jul-2017 10:57:19 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-248.D

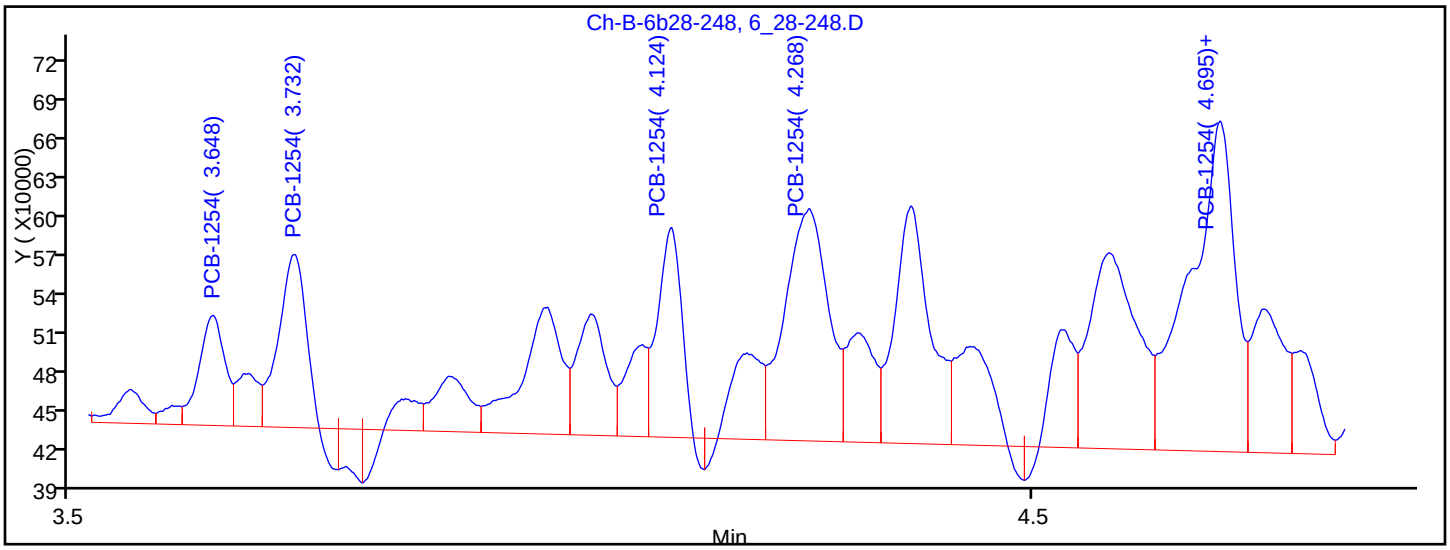
Injection Date:	25-Jul-2017 00:03:59	Instrument ID:	HP6890-6		
Lims ID:	480-121411-A-1-C	Lab Sample ID:	480-121411-1		
Client ID:	TP-07				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

8 PCB-1254, CAS: 11097-69-1



Processing Integration Results

3.648	Response = 406259
3.732	Response = 586939
4.124	Response = 468758
4.268	Response = 826536
4.695	Response = 1051380



Manual Integration Results

3.648	Response = 159550	M
3.732	Response = 239372	M
4.124	Response = 267180	M
4.268	Response = 569556	M
4.695	Response = 842264	M

Reviewer: owenj, 25-Jul-2017 10:57:13

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

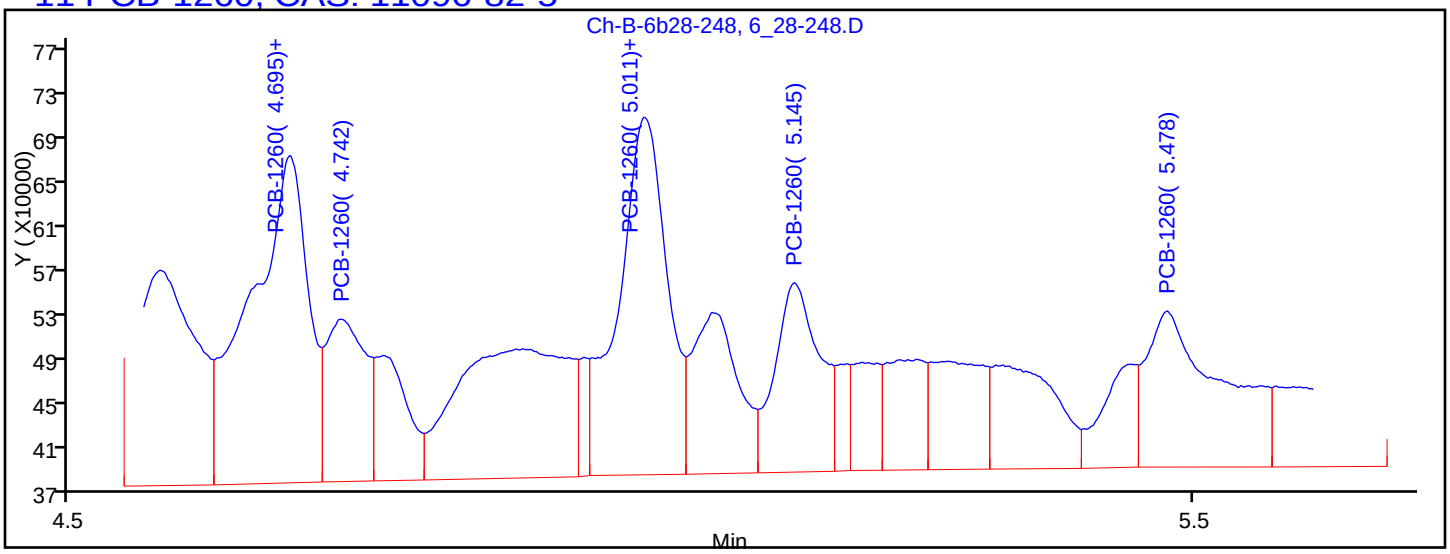
Report Date: 25-Jul-2017 10:57:19 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-248.D

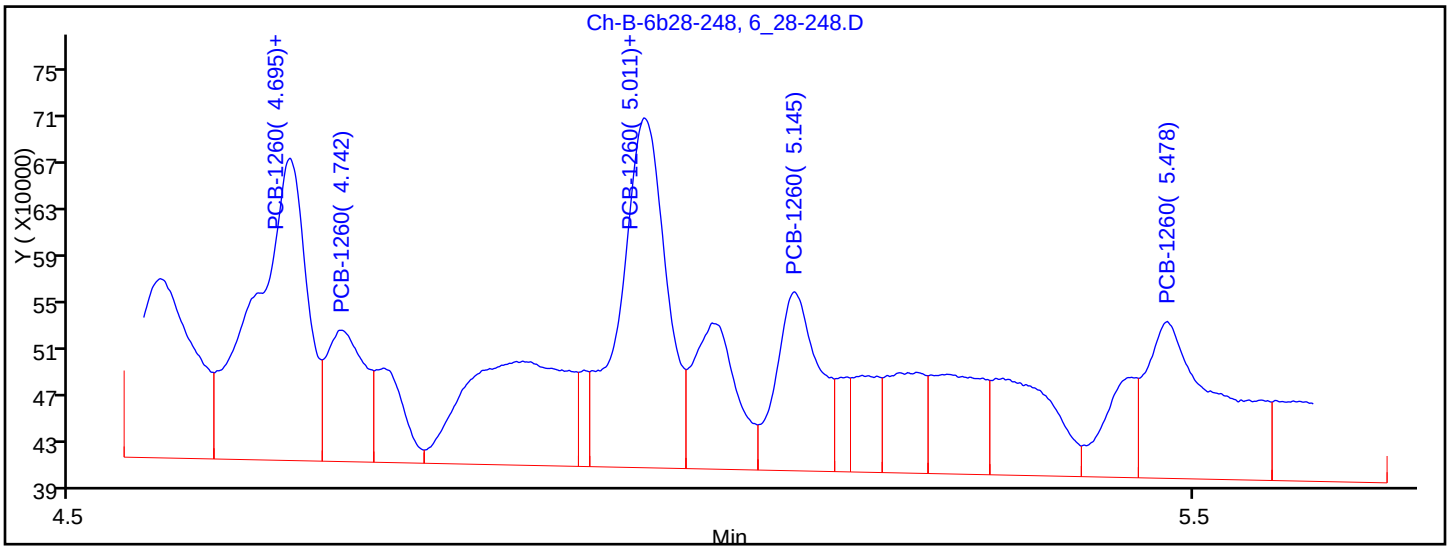
Injection Date:	25-Jul-2017 00:03:59	Instrument ID:	HP6890-6		
Lims ID:	480-121411-A-1-C	Lab Sample ID:	480-121411-1		
Client ID:	TP-07				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.695	Response = 1051380
4.742	Response = 353081
5.011	Response = 965758
5.145	Response = 467817
5.478	Response = 654726



Manual Integration Results

4.695	Response = 842264	M
4.742	Response = 262629	M
5.011	Response = 852180	M
5.145	Response = 398851	M
5.478	Response = 616970	M

Reviewer: owenj, 25-Jul-2017 10:57:13

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-09 | Lab Sample ID: 480-121411-2

Matrix: Solid | Lab File ID: 6_28-249.D

Analysis Method: 8082A | Date Collected: 07/20/2017 10:30

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.25(g) | Date Analyzed: 07/25/2017 00:19

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		60-154
2051-24-3	DCB Decachlorobiphenyl	110		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-249.D
Lims ID: 480-121411-A-2-C
Client ID: TP-09
Sample Type: Client
Inject. Date: 25-Jul-2017 00:19:51 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:57:58 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:57:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.000	0.999	0.001	15848554	0.5000	
2	1.102	1.103	0.000	193553233	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.895	1.894	0.001	636271	0.0233	
2	1.725	1.725	0.000	10693862	0.0279	
					RPD = 17.92	
11 PCB-1260						
1	4.683	4.689	-0.006	7339	-0.001666	
1	4.819	4.816	0.003	4232	0.004472	
1	5.003	5.005	-0.003	4243	-0.003977	
1	5.205	5.204	0.001	8034	0.000992	
1	5.442	5.442	0.000	5483	-0.001945	
		Average of Peak Amounts =			-0.000425	
2	4.696	4.695	0.001	195001	0.004965	
2	4.741	4.741	0.000	282145	0.0177	
2	5.012	5.006	0.006	617249	0.0666	
2	5.144	5.142	0.002	180192	0.002655	
2	5.478	5.478	0.000	305679	0.0172	
		Average of Peak Amounts =			0.0218	
					RPD = 207.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.442	5.442	0.000	5483	NR	
2	5.012	5.006	0.006	617249	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.542	5.544	-0.002	4762	NR	
2	5.068	5.073	-0.005	118753	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.449	6.453	-0.003	310041	0.0221	
2	6.387	6.387	0.000	3067007	0.0273	
					RPD = 21.10	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

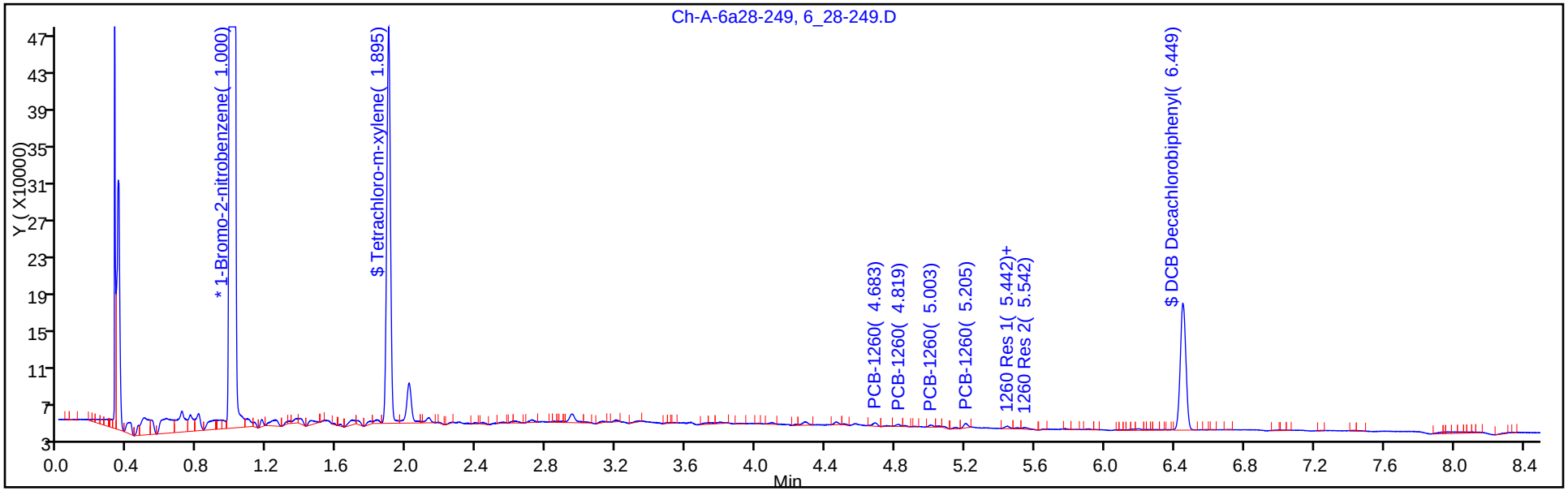
Report Date: 25-Jul-2017 10:57:59 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

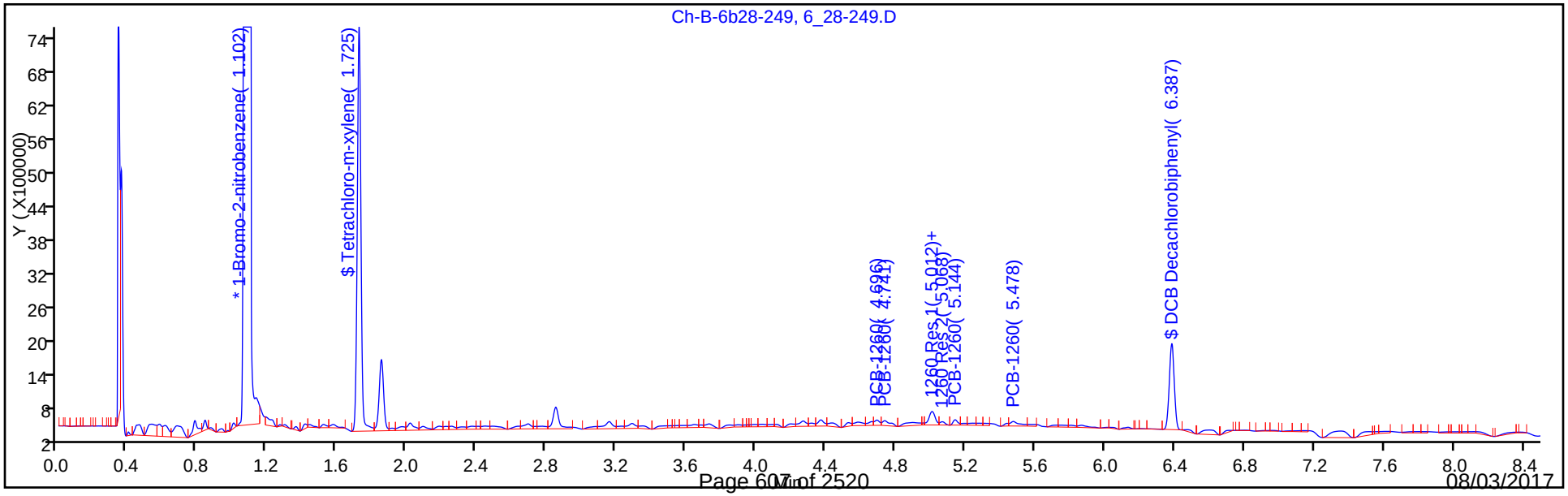
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-249.D

Injection Date:	25-Jul-2017 00:19:51	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-2-C	Lab Sample ID:	480-121411-2	Worklist Smp#:	21
Client ID:	TP-09				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-09 | Lab Sample ID: 480-121411-2

Matrix: Solid | Lab File ID: 6_28-249.D

Analysis Method: 8082A | Date Collected: 07/20/2017 10:30

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.25(g) | Date Analyzed: 07/25/2017 00:19

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	140		60-154
2051-24-3	DCB Decachlorobiphenyl	136		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-249.D
Lims ID: 480-121411-A-2-C
Client ID: TP-09
Sample Type: Client
Inject. Date: 25-Jul-2017 00:19:51 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:57:58 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:57:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.000	0.999	0.001	15848554	0.5000	
2	1.102	1.103	0.000	193553233	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.895	1.894	0.001	636271	0.0233	
2	1.725	1.725	0.000	10693862	0.0279	
					RPD = 17.92	
11 PCB-1260						
1	4.683	4.689	-0.006	7339	-0.001666	
1	4.819	4.816	0.003	4232	0.004472	
1	5.003	5.005	-0.003	4243	-0.003977	
1	5.205	5.204	0.001	8034	0.000992	
1	5.442	5.442	0.000	5483	-0.001945	
		Average of Peak Amounts =			-0.000425	
2	4.696	4.695	0.001	195001	0.004965	
2	4.741	4.741	0.000	282145	0.0177	
2	5.012	5.006	0.006	617249	0.0666	
2	5.144	5.142	0.002	180192	0.002655	
2	5.478	5.478	0.000	305679	0.0172	
		Average of Peak Amounts =			0.0218	
					RPD = 207.94	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
9 1260 Res 1						
1	5.442	5.442	0.000	5483	NR	
2	5.012	5.006	0.006	617249	NR	
					RPD = NaN	
14 1260 Res 2						
1	5.542	5.544	-0.002	4762	NR	
2	5.068	5.073	-0.005	118753	NR	
					RPD = NaN	
$ 15 DCB Decachlorobiphenyl						
1	6.449	6.453	-0.003	310041	0.0221	
2	6.387	6.387	0.000	3067007	0.0273	
					RPD = 21.10	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

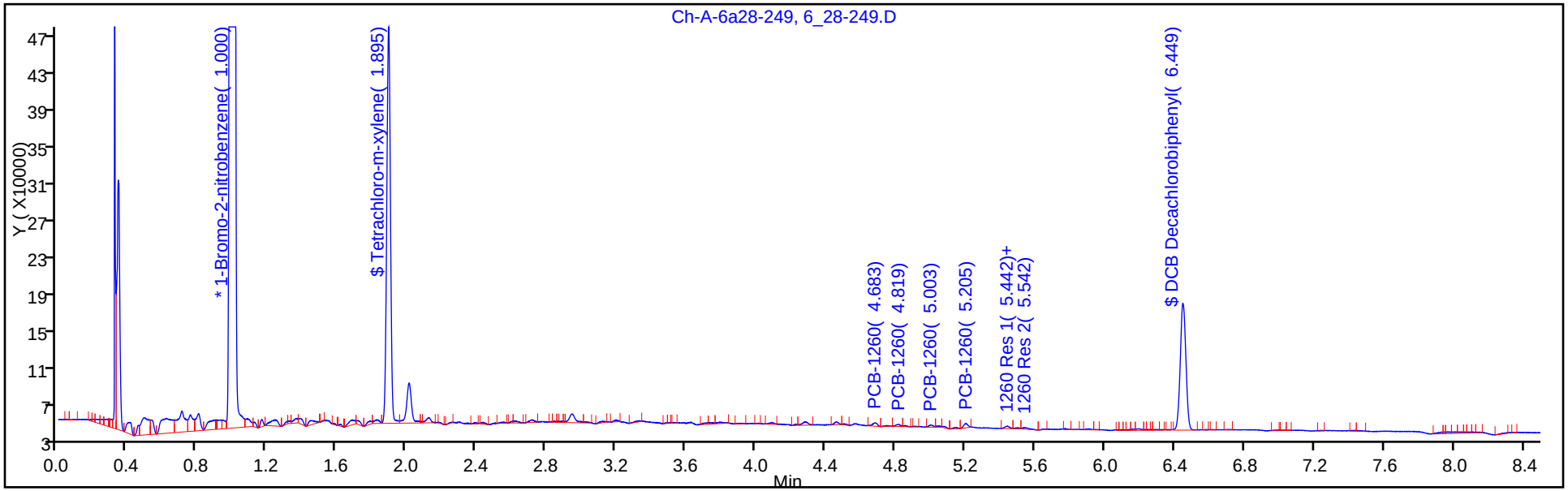
Report Date: 25-Jul-2017 10:58:00 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

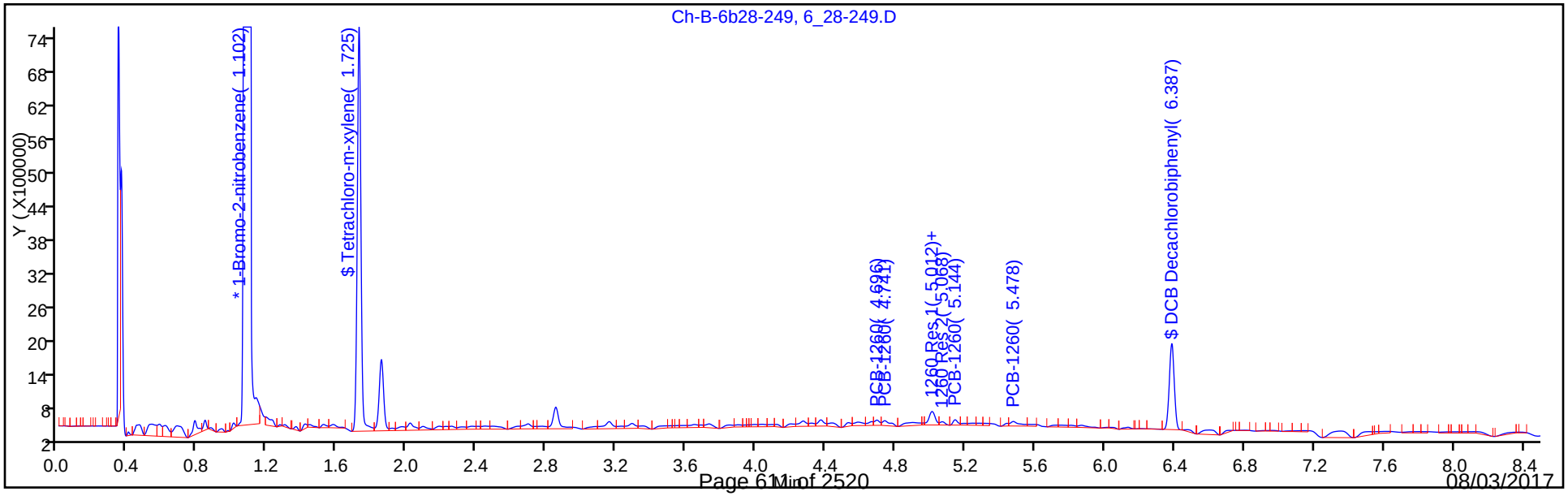
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-249.D

Injection Date:	25-Jul-2017 00:19:51	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-2-C	Lab Sample ID:	480-121411-2	Worklist Smp#:	21
Client ID:	TP-09				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 | Lab Sample ID: 480-121411-3

Matrix: Solid | Lab File ID: 6_28-247.D

Analysis Method: 8082A | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.36(g) | Date Analyzed: 07/24/2017 23:48

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.050
11104-28-2	PCB-1221	ND		0.25	0.050
11141-16-5	PCB-1232	ND		0.25	0.050
53469-21-9	PCB-1242	ND		0.25	0.050
12672-29-6	PCB-1248	ND		0.25	0.050
11097-69-1	PCB-1254	ND		0.25	0.12
11096-82-5	PCB-1260	ND		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	133		60-154
2051-24-3	DCB Decachlorobiphenyl	128		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-247.D
Lims ID: 480-121411-A-3-I
Client ID: TP-15
Sample Type: Client
Inject. Date: 24-Jul-2017 23:48:10 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:55:33 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:55:33

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.999	0.999	0.000	12575020	0.5000	
2	1.100	1.103	-0.002	182991685	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.894	1.894	0.000	577226	0.0267	
2	1.725	1.725	0.000	9093686	0.0251	
					RPD = 6.15	
$ 15 DCB Decachlorobiphenyl						
1	6.451	6.453	-0.001	284967	0.0256	
2	6.386	6.387	-0.001	2874325	0.0270	
					RPD = 5.51	

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

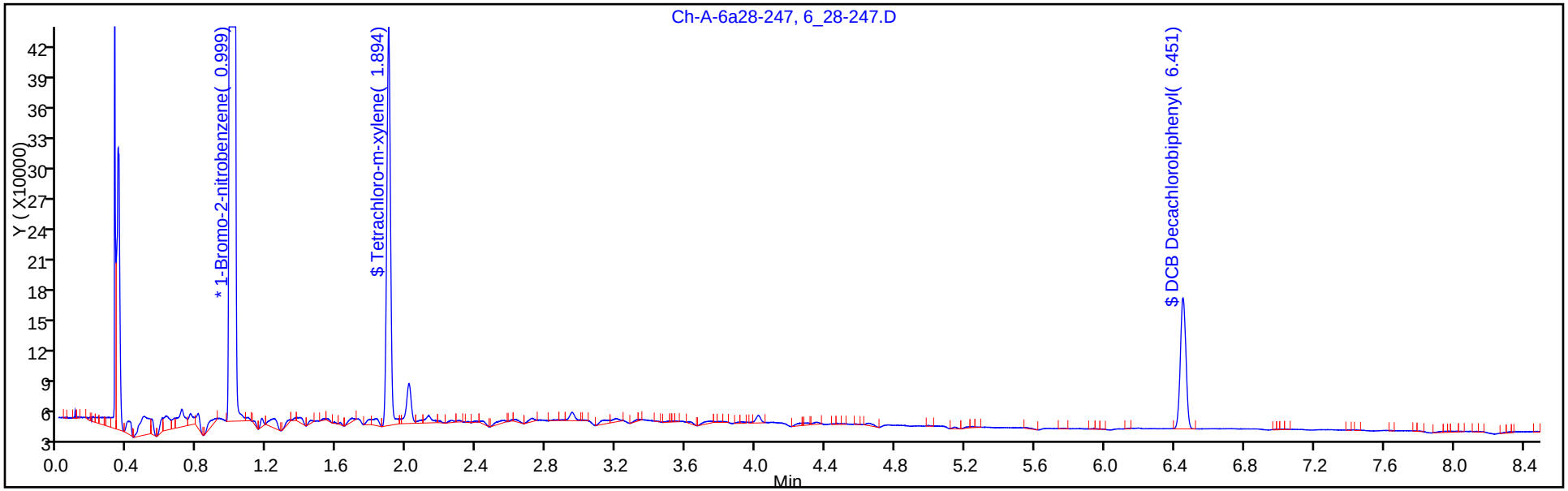
Report Date: 25-Jul-2017 10:55:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

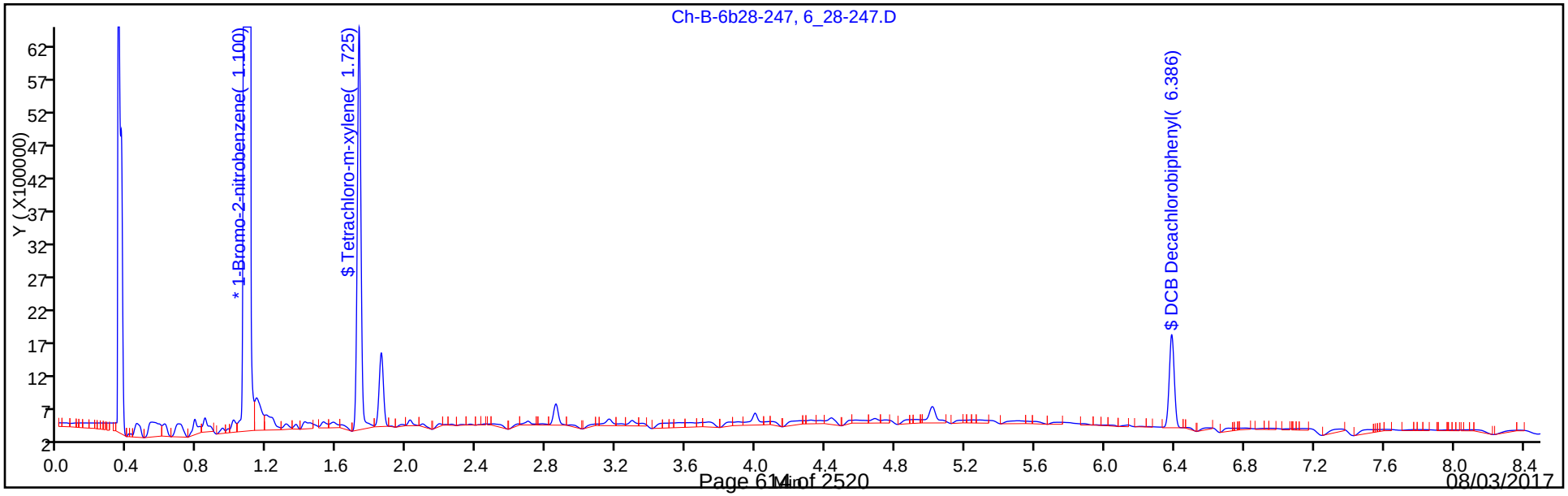
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-247.D

Injection Date:	24-Jul-2017 23:48:10	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-I	Lab Sample ID:	480-121411-3	Worklist Smp#:	19
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 | Lab Sample ID: 480-121411-3

Matrix: Solid | Lab File ID: 6_28-247.D

Analysis Method: 8082A | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.36(g) | Date Analyzed: 07/24/2017 23:48

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	125		60-154
2051-24-3	DCB Decachlorobiphenyl	135		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-247.D
Lims ID: 480-121411-A-3-I
Client ID: TP-15
Sample Type: Client
Inject. Date: 24-Jul-2017 23:48:10 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:55:33 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:55:33

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	0.999	0.999	0.000	12575020	0.5000	
2	1.100	1.103	-0.002	182991685	0.5000	
					RPD = 0.00	
$ 2 Tetrachloro-m-xylene						
1	1.894	1.894	0.000	577226	0.0267	
2	1.725	1.725	0.000	9093686	0.0251	
					RPD = 6.15	
$ 15 DCB Decachlorobiphenyl						
1	6.451	6.453	-0.001	284967	0.0256	
2	6.386	6.387	-0.001	2874325	0.0270	
					RPD = 5.51	

Reagents:

COPPER_00066 Amount Added: 1.00 Units: g Run Reagent
PCB IS 1B2NB_00037 Amount Added: 10.00 Units: uL Run Reagent

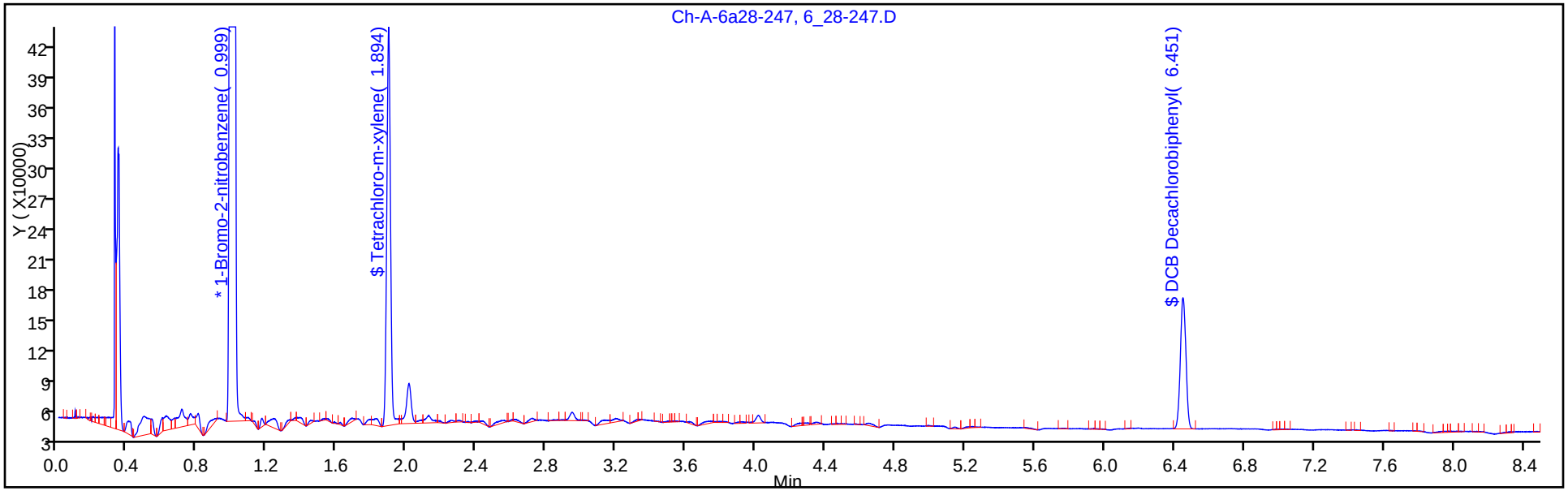
Report Date: 25-Jul-2017 10:55:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

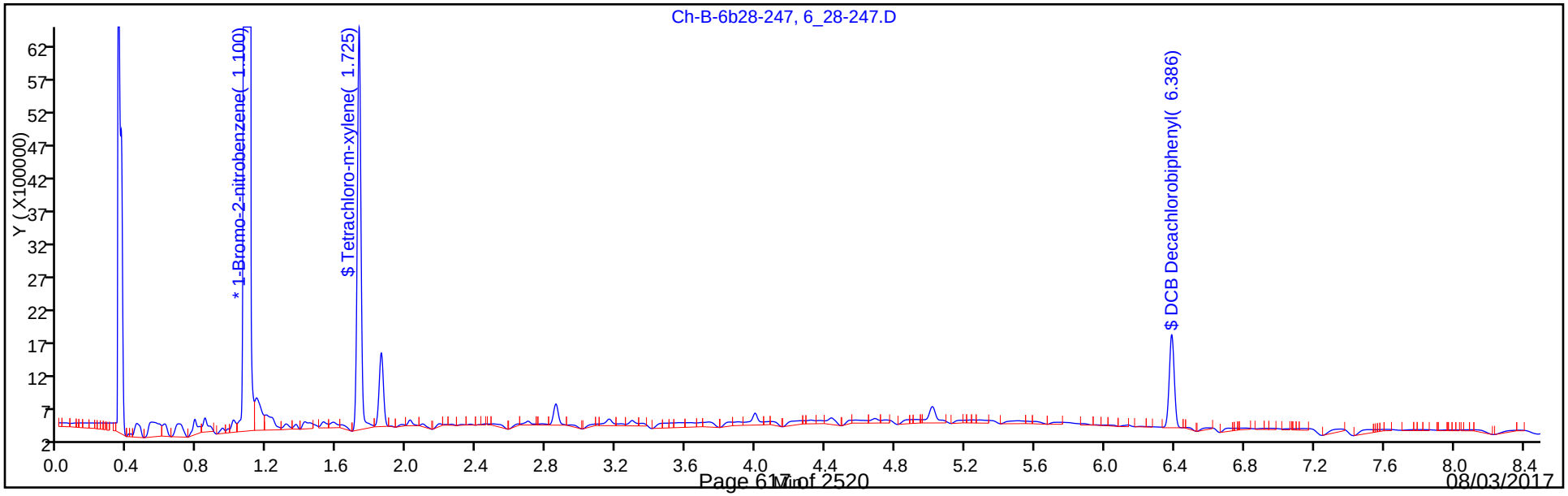
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-247.D

Injection Date:	24-Jul-2017 23:48:10	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-I	Lab Sample ID:	480-121411-3	Worklist Smp#:	19
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121411-4

Matrix: Solid | Lab File ID: 7_36-244.D

Analysis Method: 8082A | Date Collected: 07/20/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.35(g) | Date Analyzed: 07/26/2017 18:24

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	136		60-154
2051-24-3	DCB Decachlorobiphenyl	126		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-244.D
Lims ID: 480-121411-C-4-C
Client ID: DUP
Sample Type: Client
Inject. Date: 26-Jul-2017 18:24:40 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:30:13 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:30:13

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.072	1.071	0.001	13897997	0.5000	
2	0.941	0.941	0.000	37843322	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.963	1.966	-0.003	920477	0.0272	
2	1.492	1.491	0.001	1967442	0.0233	
					RPD = 15.49	
11 PCB-1254						
1	3.858	3.859	-0.001	41458	0.0203	
1	4.081	4.081	0.000	43930	0.0387	
1	4.161	4.162	-0.001	98265	0.0511	
1	4.358	4.360	-0.002	153547	0.0828	
1	4.763	4.765	-0.002	275002	0.1838	
		Average of Peak Amounts =			0.0753	
2	3.351	3.352	-0.001	83475	0.0226	
2	3.644	3.644	0.000	69829	0.0283	
2	3.728	3.730	-0.002	222513	0.0454	
2	3.867	3.867	0.000	310718	0.0645	
2	4.296	4.297	-0.001	608220	0.1556	
		Average of Peak Amounts =			0.0633	
					RPD = 17.35	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
2 1260 Res 1						
1	5.529	5.532	-0.002	57239	NC	
2	4.601	4.603	-0.003	241365	NC	
4 1260 Res 2						
1	5.758	5.734	0.024	2196	NC	
2	4.748	4.748	0.000	151818	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.888	6.907	-0.019	490307	0.0252	
2	6.055	6.056	-0.001	1034478	0.0189	
					RPD = 28.73	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

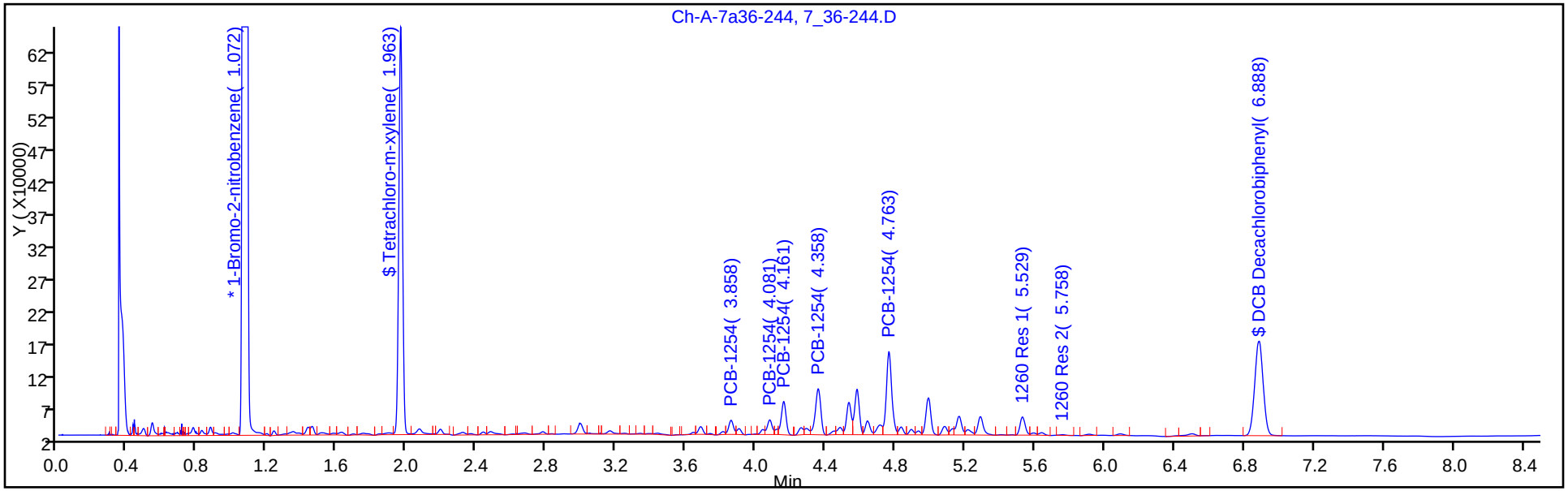
Report Date: 27-Jul-2017 11:30:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

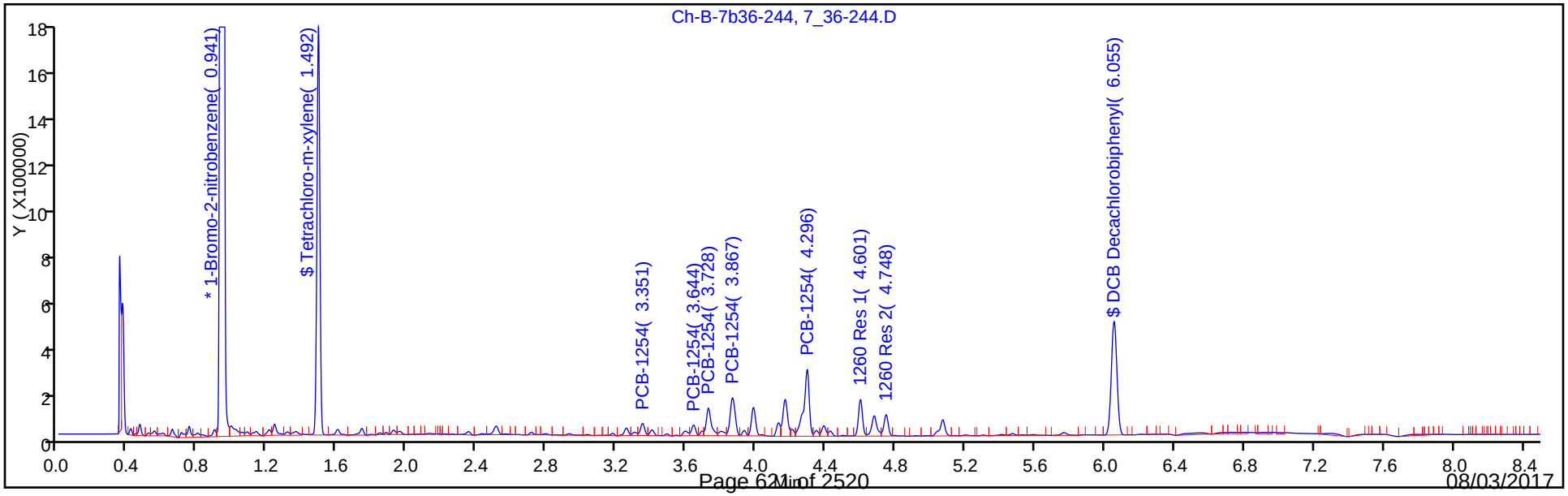
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-244.D

Injection Date:	26-Jul-2017 18:24:40	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121411-C-4-C	Lab Sample ID:	480-121411-4	Worklist Smp#:	30
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121411-4

Matrix: Solid | Lab File ID: 7_36-244.D

Analysis Method: 8082A | Date Collected: 07/20/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.35(g) | Date Analyzed: 07/26/2017 18:24

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 21.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	0.34		0.27	0.13
11096-82-5	PCB-1260	ND		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	117		60-154
2051-24-3	DCB Decachlorobiphenyl	94		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-244.D
Lims ID: 480-121411-C-4-C
Client ID: DUP
Sample Type: Client
Inject. Date: 26-Jul-2017 18:24:40 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:30:13 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:30:13

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.072	1.071	0.001	13897997	0.5000	
2	0.941	0.941	0.000	37843322	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.963	1.966	-0.003	920477	0.0272	
2	1.492	1.491	0.001	1967442	0.0233	
					RPD = 15.49	
11 PCB-1254						
1	3.858	3.859	-0.001	41458	0.0203	
1	4.081	4.081	0.000	43930	0.0387	
1	4.161	4.162	-0.001	98265	0.0511	
1	4.358	4.360	-0.002	153547	0.0828	
1	4.763	4.765	-0.002	275002	0.1838	
		Average of Peak Amounts =			0.0753	
2	3.351	3.352	-0.001	83475	0.0226	
2	3.644	3.644	0.000	69829	0.0283	
2	3.728	3.730	-0.002	222513	0.0454	
2	3.867	3.867	0.000	310718	0.0645	
2	4.296	4.297	-0.001	608220	0.1556	
		Average of Peak Amounts =			0.0633	
					RPD = 17.35	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
2 1260 Res 1						
1	5.529	5.532	-0.002	57239	NC	
2	4.601	4.603	-0.003	241365	NC	
4 1260 Res 2						
1	5.758	5.734	0.024	2196	NC	
2	4.748	4.748	0.000	151818	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.888	6.907	-0.019	490307	0.0252	
2	6.055	6.056	-0.001	1034478	0.0189	
					RPD = 28.73	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

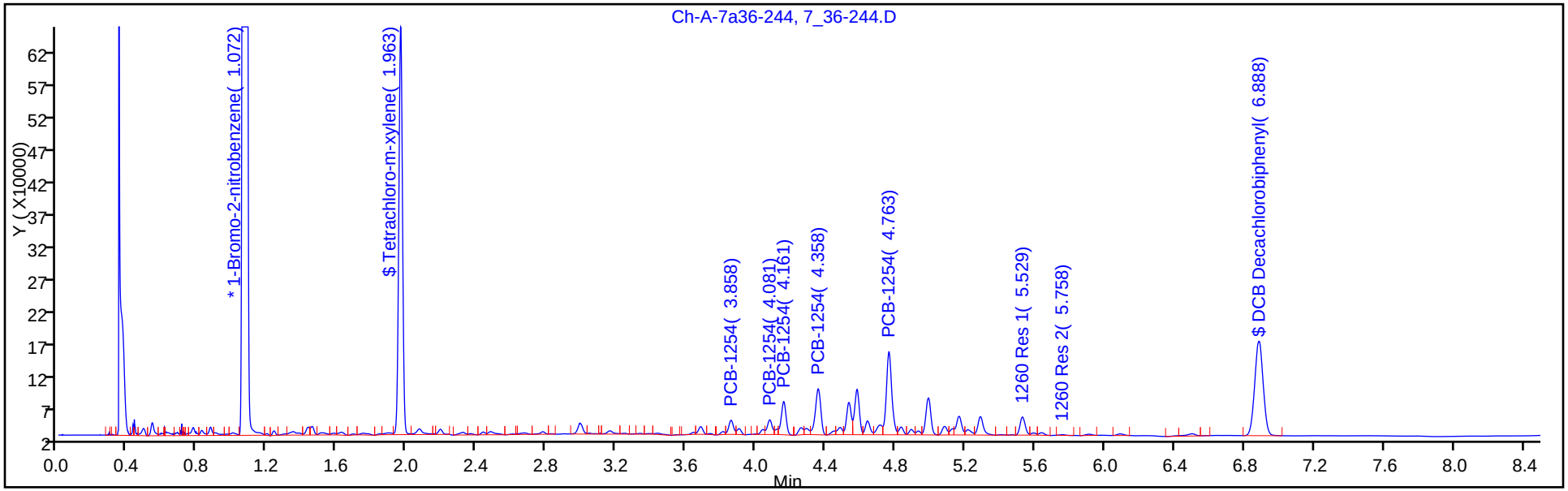
Report Date: 27-Jul-2017 11:30:14 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

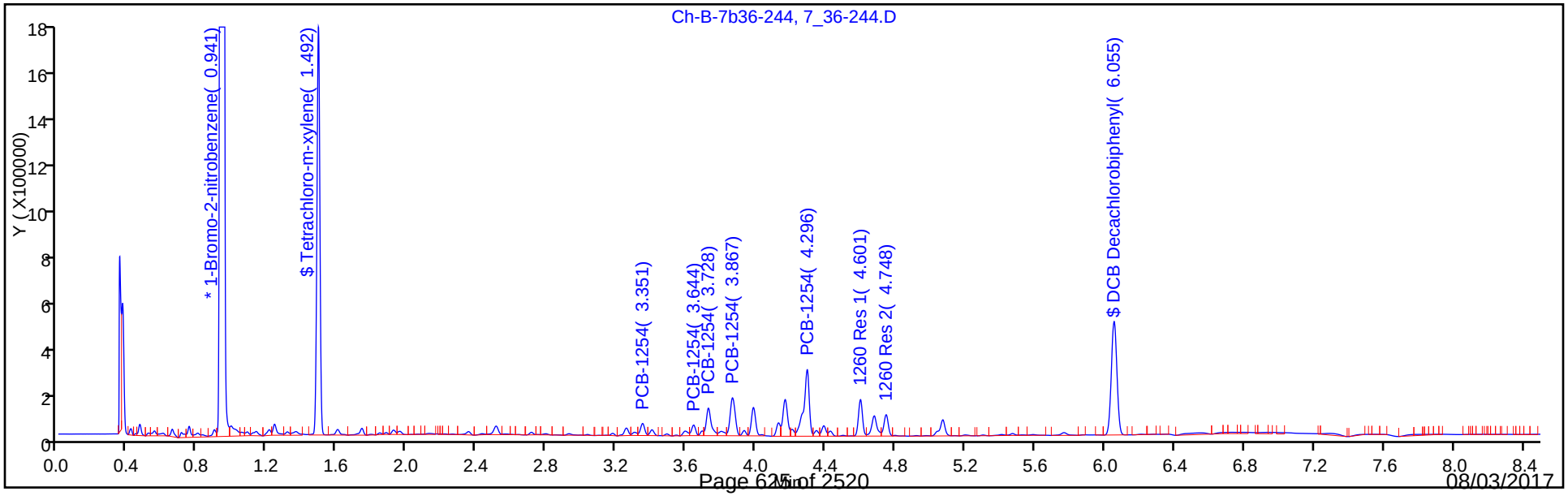
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-244.D

Injection Date:	26-Jul-2017 18:24:40	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121411-C-4-C	Lab Sample ID:	480-121411-4	Worklist Smp#:	30
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 04:13 Calibration End Date: 02/23/2017 04:45 Calibration ID: 29811

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/18	6_20-174.D
Level 2	IC 480-345014/17	6_20-173.D
Level 3	IC 480-345014/16	6_20-172.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	0.0074	0.0055	0.0052			Lin1	0	0.0052							1.0000		0.9900
PCB-1221 Peak 2	0.0103	0.0088	0.0092			Lin1	0	0.0091							1.0000		0.9900
PCB-1221 Peak 3	0.0066	0.0054	0.0054			Lin1	0	0.0054							1.0000		0.9900
PCB-1221 Peak 4	0.0252	0.0212	0.0216			Lin1	0.0001	0.0214							1.0000		0.9900
PCB-1254 Peak 1	0.0519	0.0468	0.0511			Lin1	0	0.0503							0.9990		0.9900
PCB-1254 Peak 2	0.0582	0.0550	0.0608			Lin1	0	0.0597							0.9980		0.9900
PCB-1254 Peak 3	0.0605	0.0552	0.0608			Lin1	0	0.0598							0.9990		0.9900
PCB-1254 Peak 4	0.0348	0.0329	0.0364			Lin1	0	0.0358							0.9980		0.9900
PCB-1254 Peak 5	0.0421	0.0450	0.0496			Lin1	0	0.0489							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 04:13 Calibration End Date: 02/23/2017 04:45 Calibration ID: 29811

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/18	6_20-174.D
Level 2	IC 480-345014/17	6_20-173.D
Level 3	IC 480-345014/16	6_20-172.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	2176	41487	153719			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	3021	66666	269901			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	1958	41080	160283			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	7432	161082	635876			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	15285	355812	1506538			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	17145	418085	1791485			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Lin1	17807	419643	1792250			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Lin1	10236	249843	1072893			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	12405	342390	1461929			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-172.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Feb-2017 04:13:15 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:36:48 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 12:45:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.046	1.047	-0.001	7368991	0.5000	0.5000	
2	1.144	1.145	-0.001	106575684	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							M
1	1.513	1.514	-0.002	153719	2.00	1.99	
1	2.113	2.116	-0.004	269901	2.00	2.02	
1	2.192	2.192	0.000	160283	2.00	2.01	
1	2.239	2.240	-0.001	635876	2.00	2.01	
		Average of Peak Amounts =				2.00	
2	1.506	1.506	0.000	1991153	2.00	1.95	M
2	2.078	2.078	0.000	3740749	2.00	1.96	
2	2.190	2.188	0.002	2040949	2.00	1.94	
2	2.243	2.243	-0.001	6933032	2.00	1.96	
		Average of Peak Amounts =				1.95	
						RPD = 2.61	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	3.888	3.890	-0.002	1506538	2.00	2.03	
1	4.189	4.190	-0.001	1791485	2.00	2.04	
1	4.384	4.384	0.000	1792250	2.00	2.04	
1	4.606	4.606	0.000	1072893	2.00	2.04	
1	4.785	4.787	-0.002	1461929	2.00	2.03	
		Average of Peak Amounts =				2.04	
2	3.743	3.744	-0.001	11529202	2.00	2.01	
2	3.826	3.826	0.000	13034425	2.00	2.02	
2	4.225	4.225	0.000	18325142	2.00	1.85	
2	4.353	4.353	0.000	20473420	2.00	2.03	
2	4.794	4.793	0.001	12095479	2.00	2.04	
		Average of Peak Amounts =				1.99	
						RPD = 2.15	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@2.0_00006 Amount Added: 0.25 Units: mL

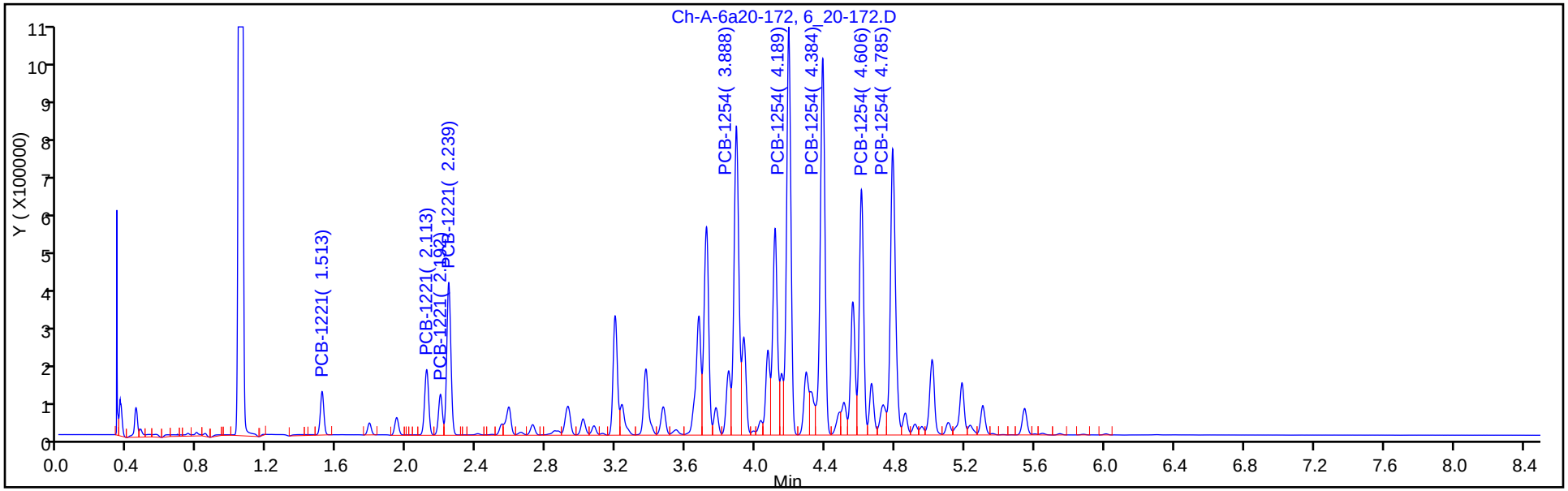
Report Date: 24-Feb-2017 10:36:48 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

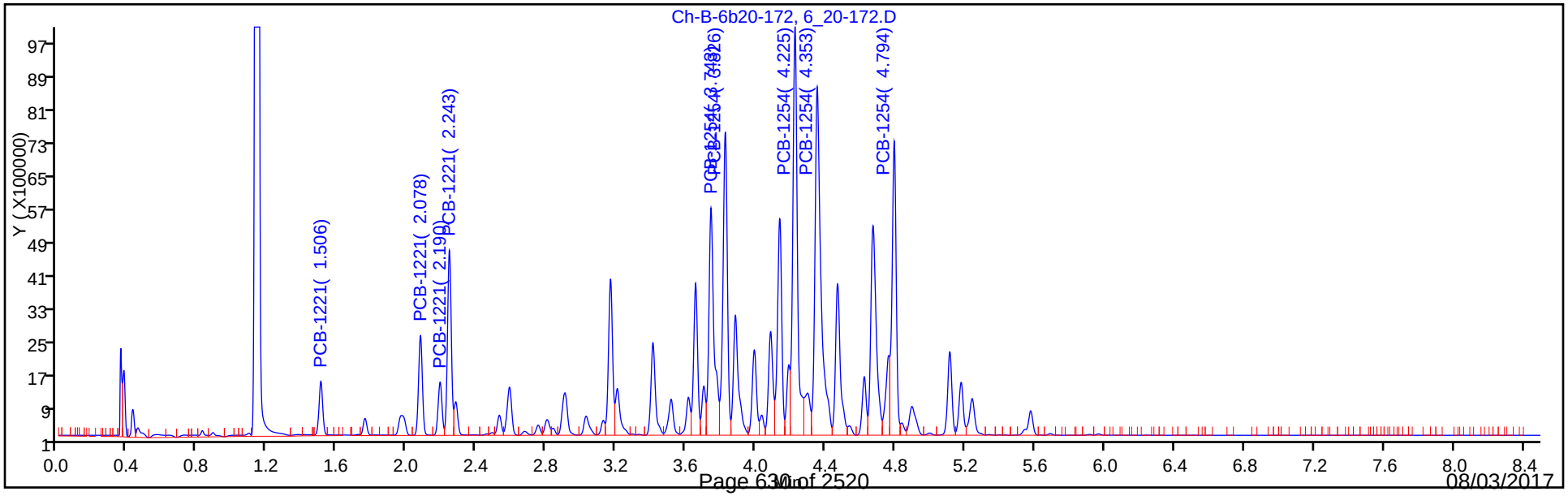
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-172.D

Injection Date:	23-Feb-2017 04:13:15	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-173.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Feb-2017 04:29:09 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:36:51 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 12:46:41

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.047	0.000	7603660	0.5000	0.5000	
2	1.145	1.145	0.000	112834811	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							M
1	1.513	1.514	-0.001	41487	0.5000	0.5133	
1	2.113	2.116	-0.003	66666	0.5000	0.4815	
1	2.192	2.192	0.000	41080	0.5000	0.4947	
1	2.240	2.240	0.000	161082	0.5000	0.4908	
		Average of Peak Amounts =				0.4951	
2	1.506	1.506	0.000	651063	0.5000	0.5503	M
2	2.078	2.078	0.000	1132670	0.5000	0.5391	
2	2.190	2.188	0.002	640803	0.5000	0.5627	
2	2.243	2.243	0.000	2081702	0.5000	0.5414	
		Average of Peak Amounts =				0.5484	
						RPD = 10.22	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	3.889	3.890	-0.001	355812	0.5000	0.4657	
1	4.191	4.190	0.001	418085	0.5000	0.4620	
1	4.384	4.384	0.000	419643	0.5000	0.4627	
1	4.606	4.606	0.000	249843	0.5000	0.4612	
1	4.787	4.787	0.000	342390	0.5000	0.4647	
		Average of Peak Amounts =				0.4633	
2	3.744	3.744	0.000	3010665	0.5000	0.4861	
2	3.827	3.826	0.001	3275898	0.5000	0.4744	
2	4.226	4.225	0.001	4528884	0.5000	0.4321	
2	4.353	4.353	0.000	5013447	0.5000	0.4643	
2	4.793	4.793	0.000	2936014	0.5000	0.4608	
		Average of Peak Amounts =				0.4635	
						RPD = 0.06	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00008 Amount Added: 0.25 Units: mL

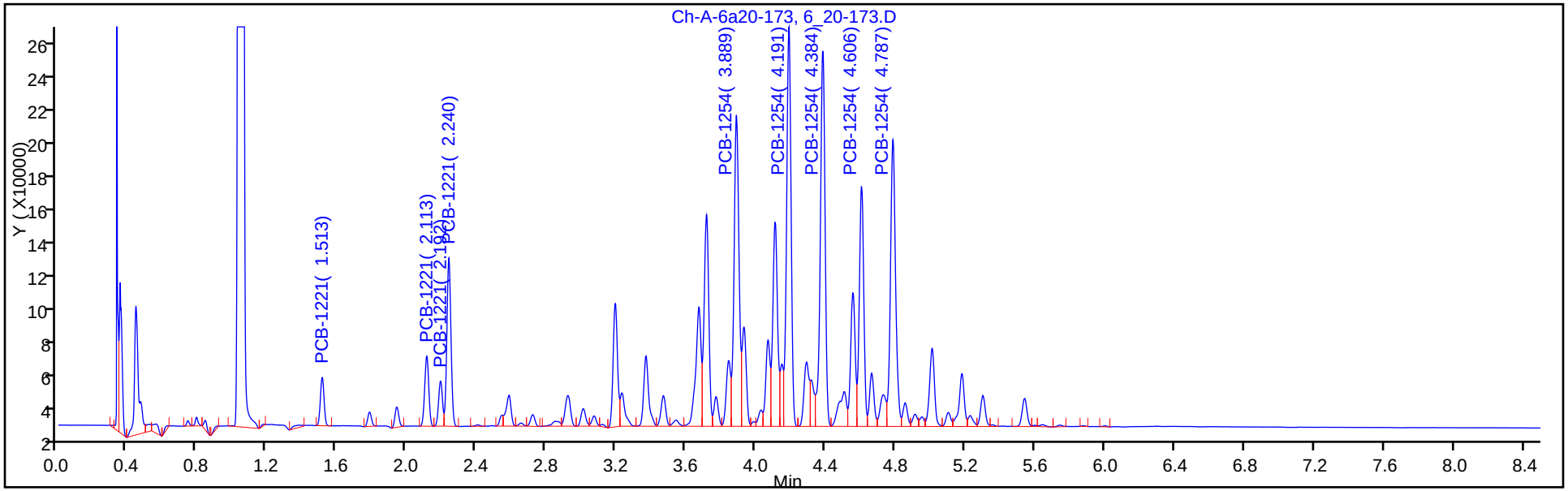
Report Date: 24-Feb-2017 10:36:51 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

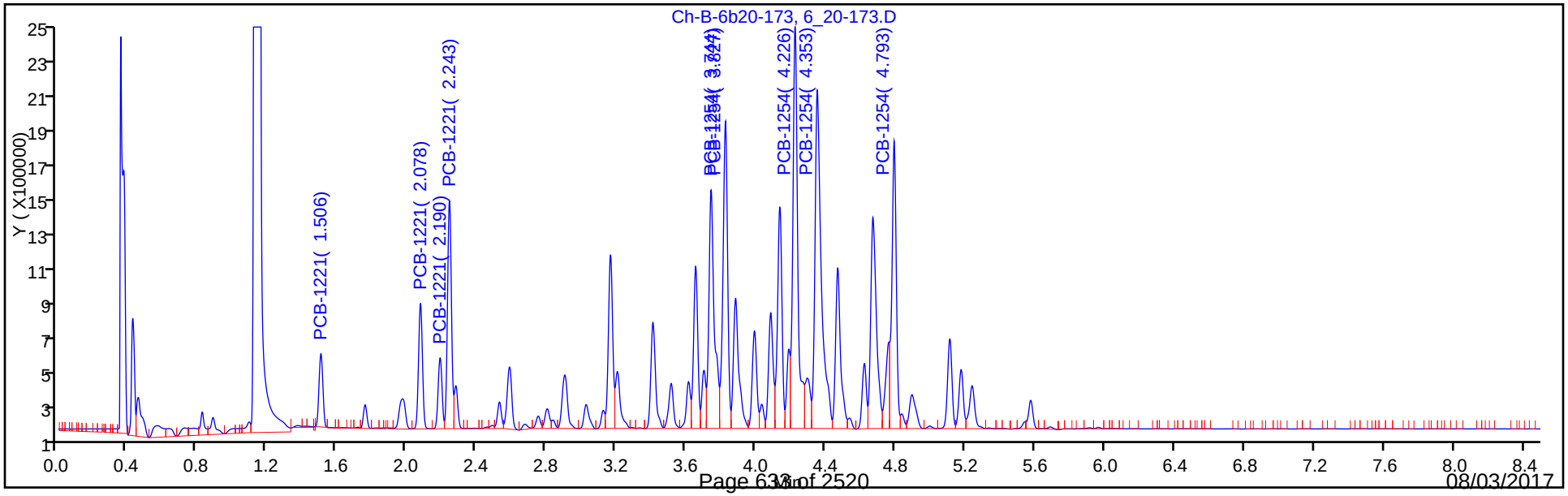
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-173.D

Injection Date:	23-Feb-2017 04:29:09	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-174.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Feb-2017 04:45:13 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:36:54 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 12:45:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.047	1.047	0.000	7363507	0.5000	0.5000	
2	1.143	1.143	0.000	109902579	0.5000	0.5000	M
						RPD = 0.00	
3 PCB-1221							M
1	1.514	1.514	0.000	2176	0.0200	0.0196	
1	2.116	2.116	0.000	3021	0.0200	0.0206	
1	2.192	2.192	0.000	1958	0.0200	0.0202	
1	2.240	2.240	0.000	7432	0.0200	0.0203	
		Average of Peak Amounts =				0.0201	
2	1.506	1.506	0.000	95399	0.0200	0.0185	M
2	2.078	2.078	0.000	96211	0.0200	0.0188	M
2	2.188	2.188	0.000	38438	0.0200	0.0181	M
2	2.243	2.243	0.000	140327	0.0200	0.0187	M
		Average of Peak Amounts =				0.0185	
						RPD = 8.35	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							M
1	3.890	3.890	0.000	15285	0.0200	0.0210	
1	4.190	4.190	0.000	17145	0.0200	0.0212	
1	4.384	4.384	0.000	17807	0.0200	0.0211	
1	4.606	4.606	0.000	10236	0.0200	0.0212	
1	4.787	4.787	0.000	12405	0.0200	0.0211	
		Average of Peak Amounts =				0.0211	
2	3.744	3.744	0.000	201725	0.0200	0.0204	M
2	3.826	3.826	0.000	191645	0.0200	0.0208	M
2	4.225	4.225	0.000	247119	0.0200	0.0242	M
2	4.353	4.353	0.000	302935	0.0200	0.0211	M
2	4.793	4.793	0.000	180109	0.0200	0.0212	M
		Average of Peak Amounts =				0.0215	
						RPD = 1.98	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00005 Amount Added: 0.25 Units: mL

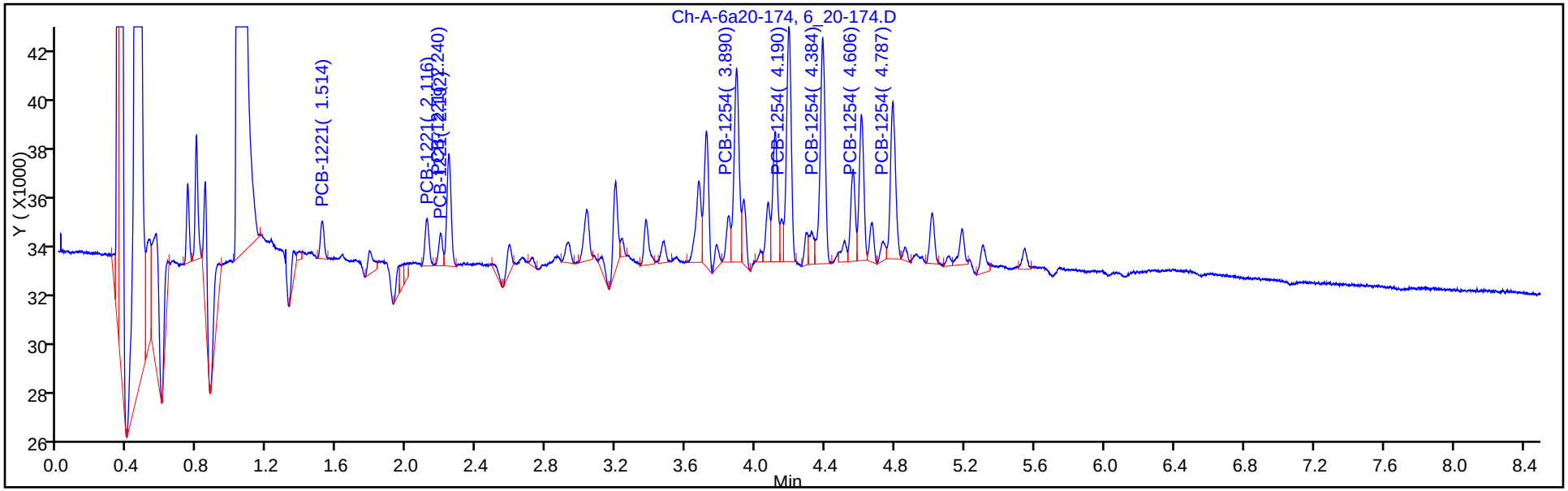
Report Date: 24-Feb-2017 10:36:54 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

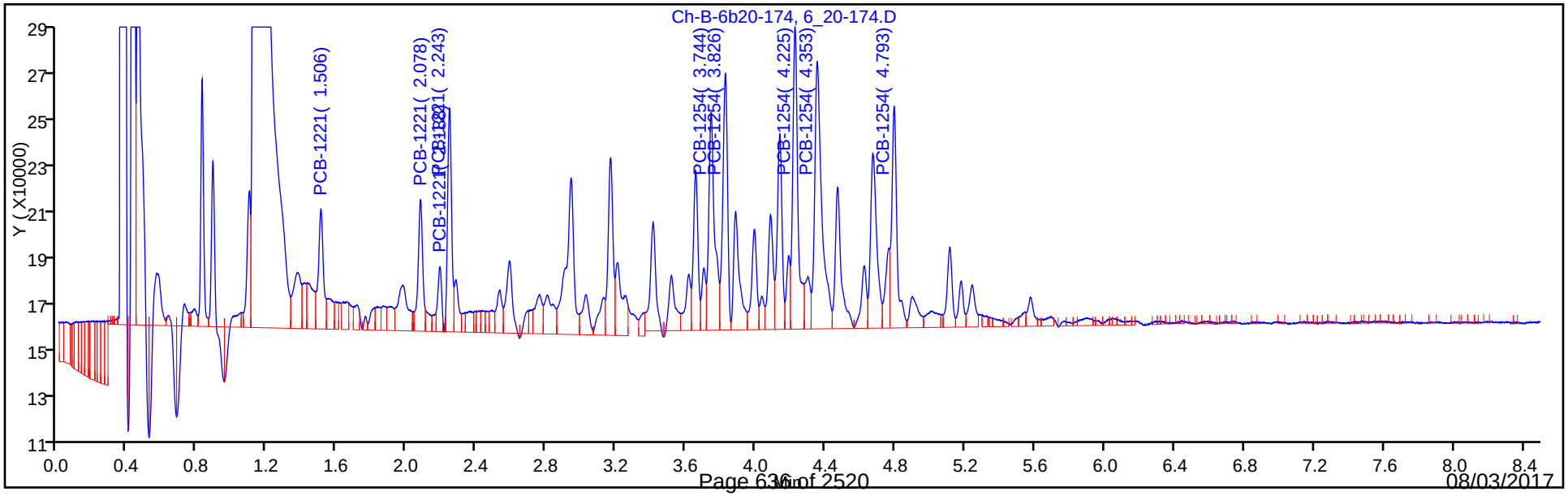
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-174.D

Injection Date:	23-Feb-2017 04:45:13	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 04:13 Calibration End Date: 02/23/2017 04:45 Calibration ID: 29812

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/18	6_20-174.D
Level 2	IC 480-345014/17	6_20-173.D
Level 3	IC 480-345014/16	6_20-172.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	0.0217	0.0058	0.0047			Lin1	0.0003	0.0046							0.9970		0.9900
PCB-1221 Peak 2	0.0219	0.0100	0.0088			Lin1	0.0003	0.0088							0.9980		0.9900
PCB-1221 Peak 3	0.0087	0.0057	0.0048			Lin1	0.0001	0.0049							0.9960		0.9900
PCB-1221 Peak 4	0.0319	0.0184	0.0163			Lin1	0.0003	0.0164							0.9980		0.9900
PCB-1254 Peak 1	0.0459	0.0267	0.0270			Lin1	0.0004	0.0267							1.0000		0.9900
PCB-1254 Peak 2	0.0436	0.0290	0.0306			Lin1	0.0002	0.0301							0.9990		0.9900
PCB-1254 Peak 3	0.0562	0.0401	0.0430			Ave		0.0464				18.5		20.0			
PCB-1254 Peak 4	0.0689	0.0444	0.0480			Lin1	0.0004	0.0470							0.9990		0.9900
PCB-1254 Peak 5	0.0410	0.0260	0.0284			Lin1	0.0002	0.0277							0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 04:13 Calibration End Date: 02/23/2017 04:45 Calibration ID: 29812

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/18	6_20-174.D
Level 2	IC 480-345014/17	6_20-173.D
Level 3	IC 480-345014/16	6_20-172.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	95399	651063	1991153			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	96211	1132670	3740749			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	38438	640803	2040949			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	140327	2081702	6933032			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	201725	3010665	11529202			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	191645	3275898	13034425			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Ave	247119	4528884	18325142			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Lin1	302935	5013447	20473420			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	180109	2936014	12095479			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-172.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Feb-2017 04:13:15 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:36:48 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 12:45:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.046	1.047	-0.001	7368991	0.5000	0.5000	
2	1.144	1.145	-0.001	106575684	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							M
1	1.513	1.514	-0.002	153719	2.00	1.99	
1	2.113	2.116	-0.004	269901	2.00	2.02	
1	2.192	2.192	0.000	160283	2.00	2.01	
1	2.239	2.240	-0.001	635876	2.00	2.01	
		Average of Peak Amounts =				2.00	
2	1.506	1.506	0.000	1991153	2.00	1.95	M
2	2.078	2.078	0.000	3740749	2.00	1.96	
2	2.190	2.188	0.002	2040949	2.00	1.94	
2	2.243	2.243	-0.001	6933032	2.00	1.96	
		Average of Peak Amounts =				1.95	
						RPD = 2.61	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	3.888	3.890	-0.002	1506538	2.00	2.03	
1	4.189	4.190	-0.001	1791485	2.00	2.04	
1	4.384	4.384	0.000	1792250	2.00	2.04	
1	4.606	4.606	0.000	1072893	2.00	2.04	
1	4.785	4.787	-0.002	1461929	2.00	2.03	
		Average of Peak Amounts =				2.04	
2	3.743	3.744	-0.001	11529202	2.00	2.01	
2	3.826	3.826	0.000	13034425	2.00	2.02	
2	4.225	4.225	0.000	18325142	2.00	1.85	
2	4.353	4.353	0.000	20473420	2.00	2.03	
2	4.794	4.793	0.001	12095479	2.00	2.04	
		Average of Peak Amounts =				1.99	
						RPD = 2.15	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@2.0_00006 Amount Added: 0.25 Units: mL

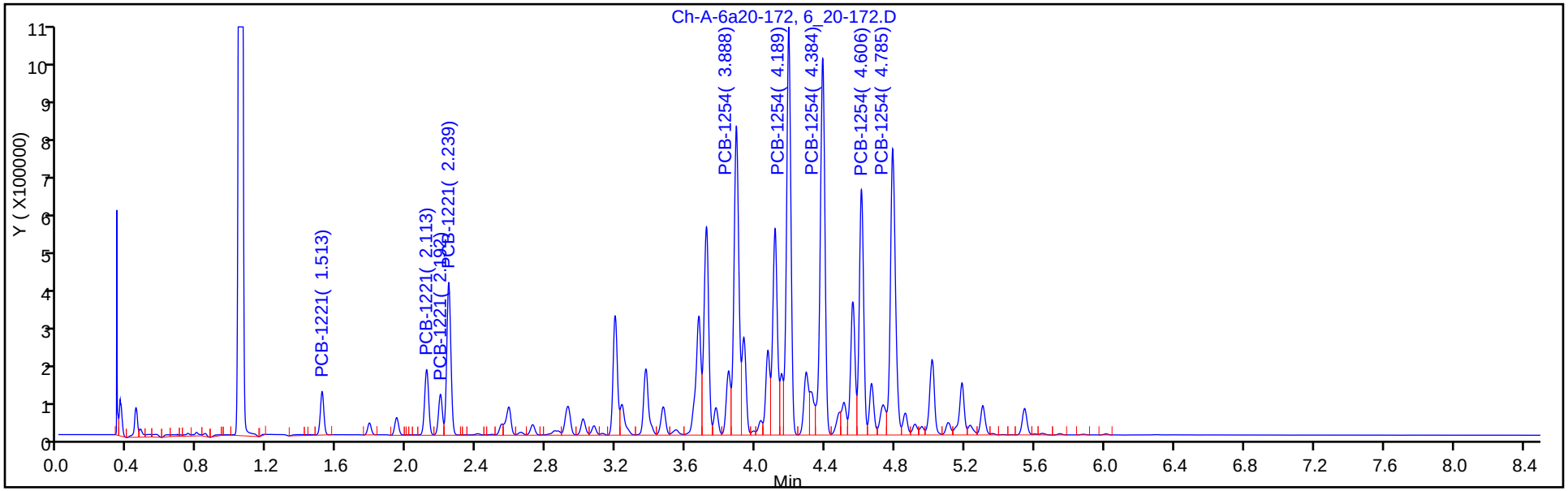
Report Date: 24-Feb-2017 10:36:49 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

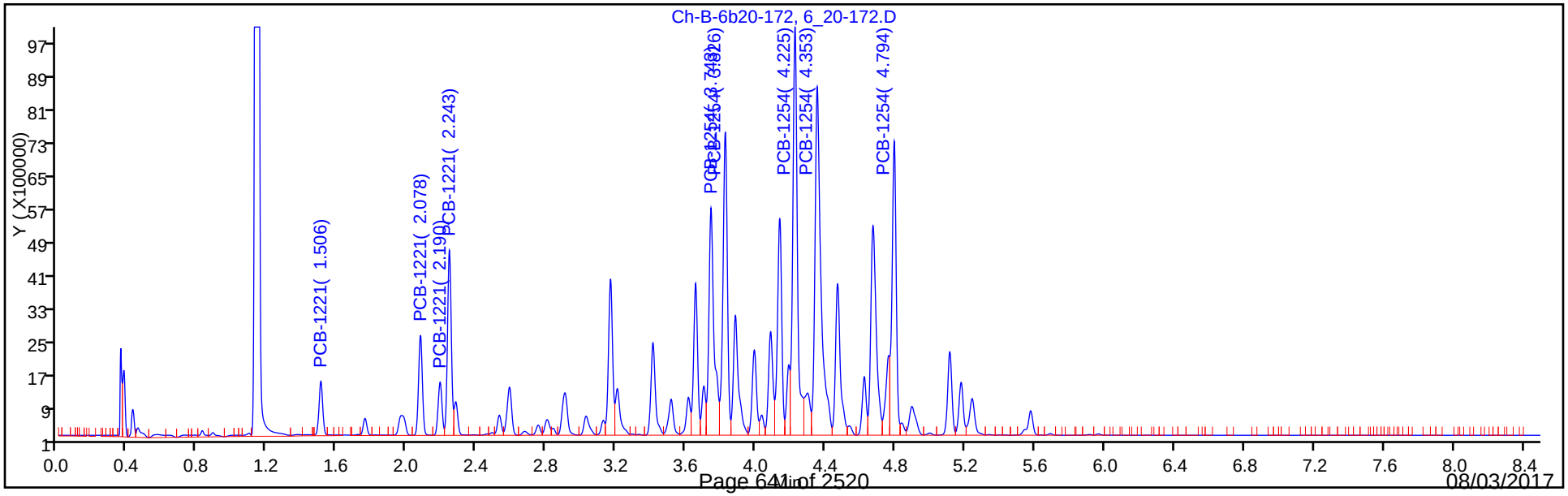
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-172.D

Injection Date:	23-Feb-2017 04:13:15	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 24-Feb-2017 10:36:49 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-172.D

Injection Date: 23-Feb-2017 04:13:15 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

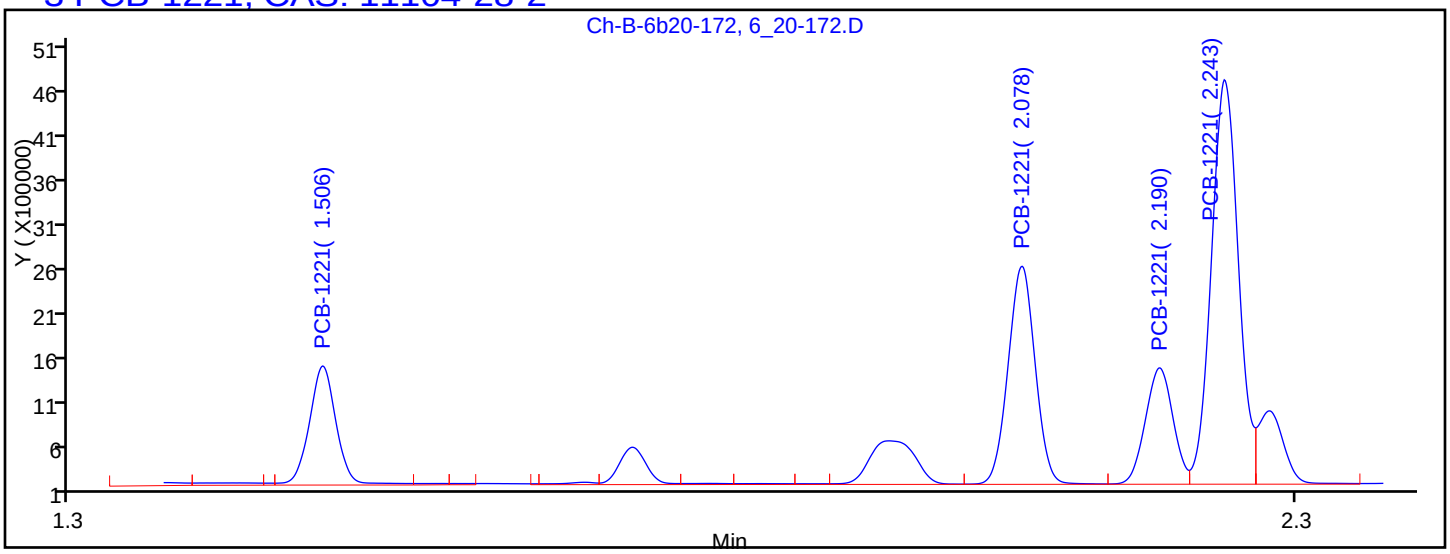
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

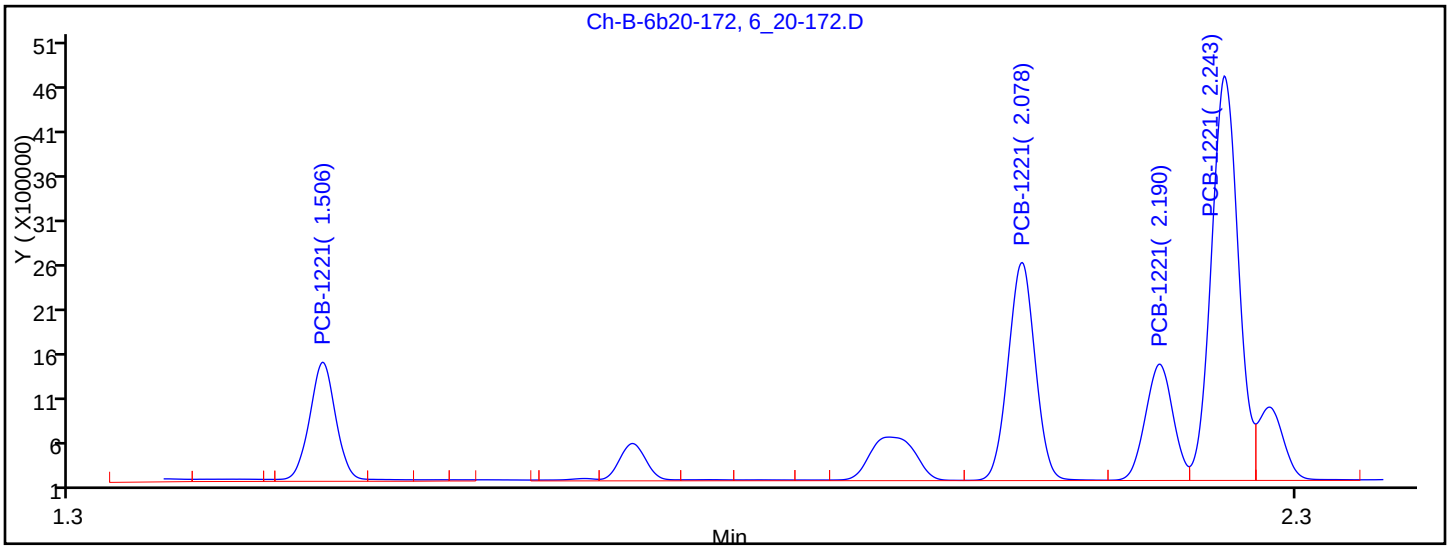
Column: Detector Ch-B-7b136

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.506	Response = 2032642
2.078	Response = 3740749
2.190	Response = 2040949
2.243	Response = 6933032



Manual Integration Results

1.506	Response = 1991153	M
2.078	Response = 3740749	
2.190	Response = 2040949	
2.243	Response = 6933032	

Reviewer: owenj, 23-Feb-2017 12:45:38

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-173.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Feb-2017 04:29:09 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:36:51 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 12:46:41

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.047	0.000	7603660	0.5000	0.5000	
2	1.145	1.145	0.000	112834811	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							M
1	1.513	1.514	-0.001	41487	0.5000	0.5133	
1	2.113	2.116	-0.003	66666	0.5000	0.4815	
1	2.192	2.192	0.000	41080	0.5000	0.4947	
1	2.240	2.240	0.000	161082	0.5000	0.4908	
		Average of Peak Amounts =				0.4951	
2	1.506	1.506	0.000	651063	0.5000	0.5503	M
2	2.078	2.078	0.000	1132670	0.5000	0.5391	
2	2.190	2.188	0.002	640803	0.5000	0.5627	
2	2.243	2.243	0.000	2081702	0.5000	0.5414	
		Average of Peak Amounts =				0.5484	
						RPD = 10.22	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	3.889	3.890	-0.001	355812	0.5000	0.4657	
1	4.191	4.190	0.001	418085	0.5000	0.4620	
1	4.384	4.384	0.000	419643	0.5000	0.4627	
1	4.606	4.606	0.000	249843	0.5000	0.4612	
1	4.787	4.787	0.000	342390	0.5000	0.4647	
		Average of Peak Amounts =				0.4633	
2	3.744	3.744	0.000	3010665	0.5000	0.4861	
2	3.827	3.826	0.001	3275898	0.5000	0.4744	
2	4.226	4.225	0.001	4528884	0.5000	0.4321	
2	4.353	4.353	0.000	5013447	0.5000	0.4643	
2	4.793	4.793	0.000	2936014	0.5000	0.4608	
		Average of Peak Amounts =				0.4635	
						RPD = 0.06	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00008 Amount Added: 0.25 Units: mL

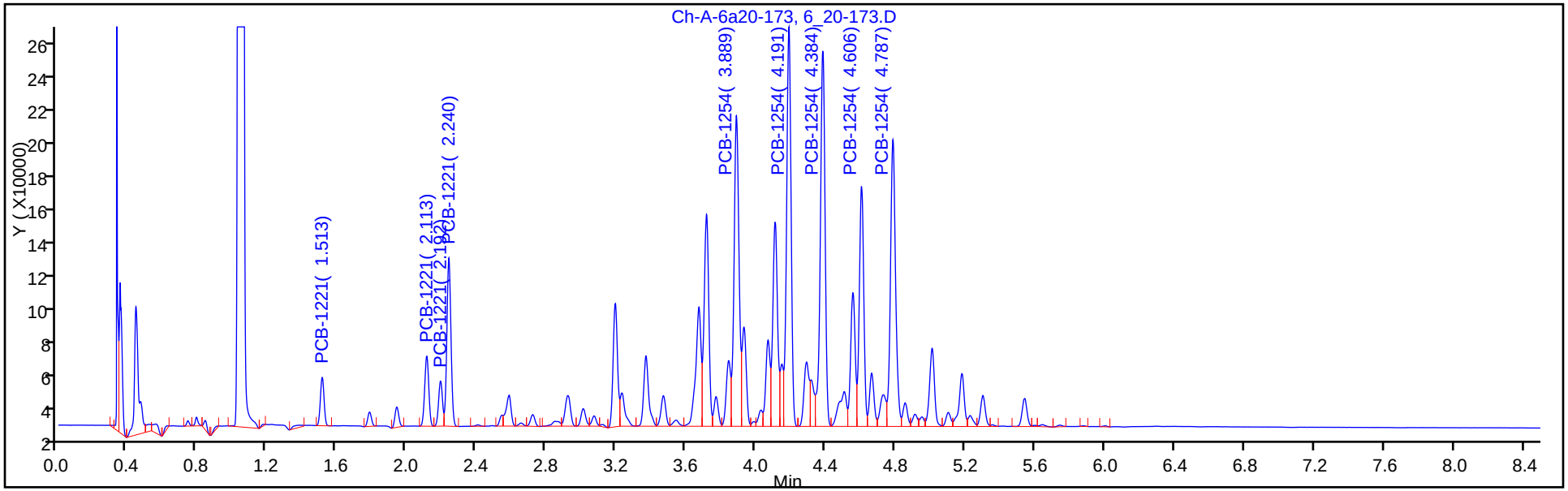
Report Date: 24-Feb-2017 10:36:52 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

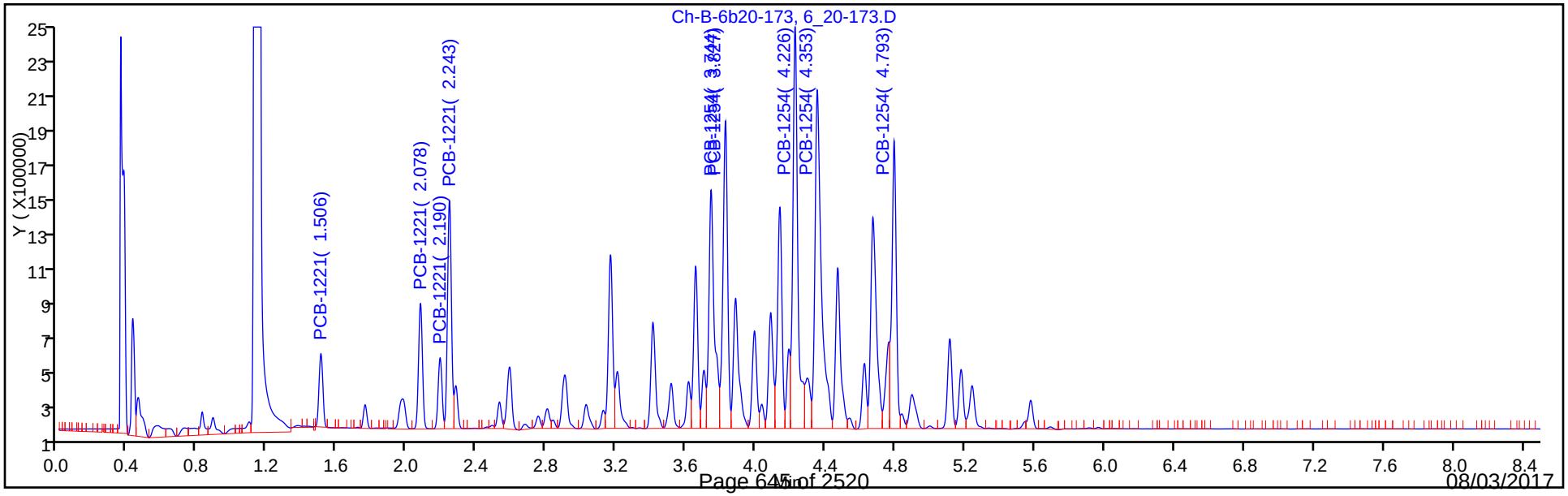
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-173.D

Injection Date:	23-Feb-2017 04:29:09	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 24-Feb-2017 10:36:52 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-173.D

Injection Date: 23-Feb-2017 04:29:09 Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

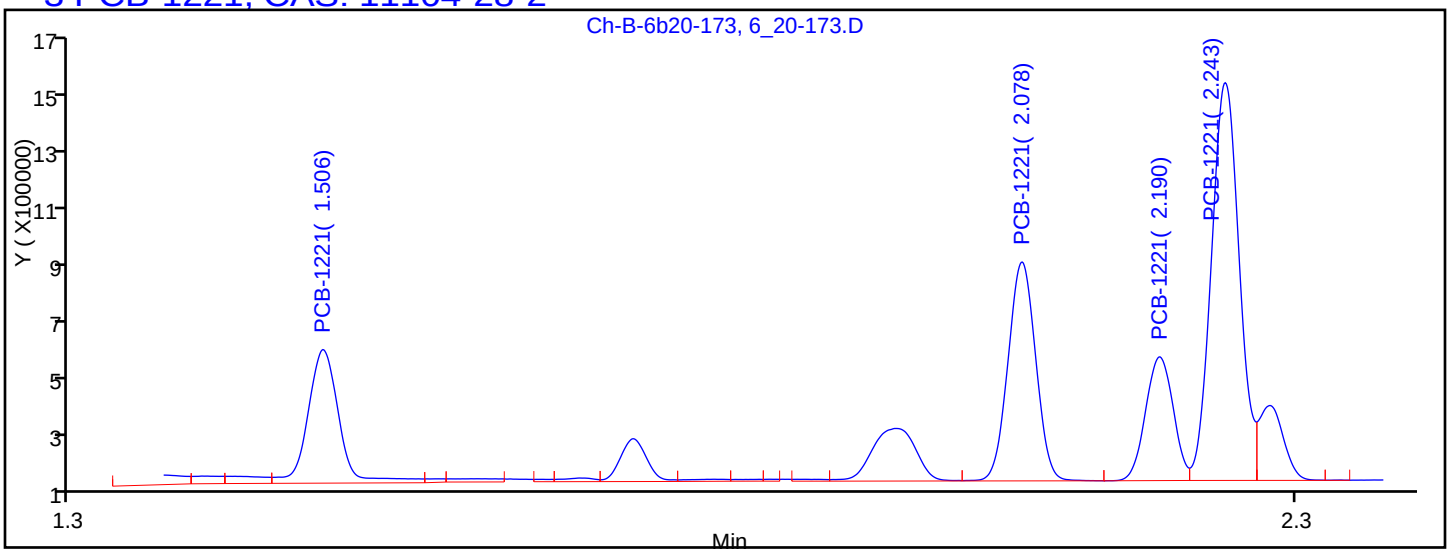
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

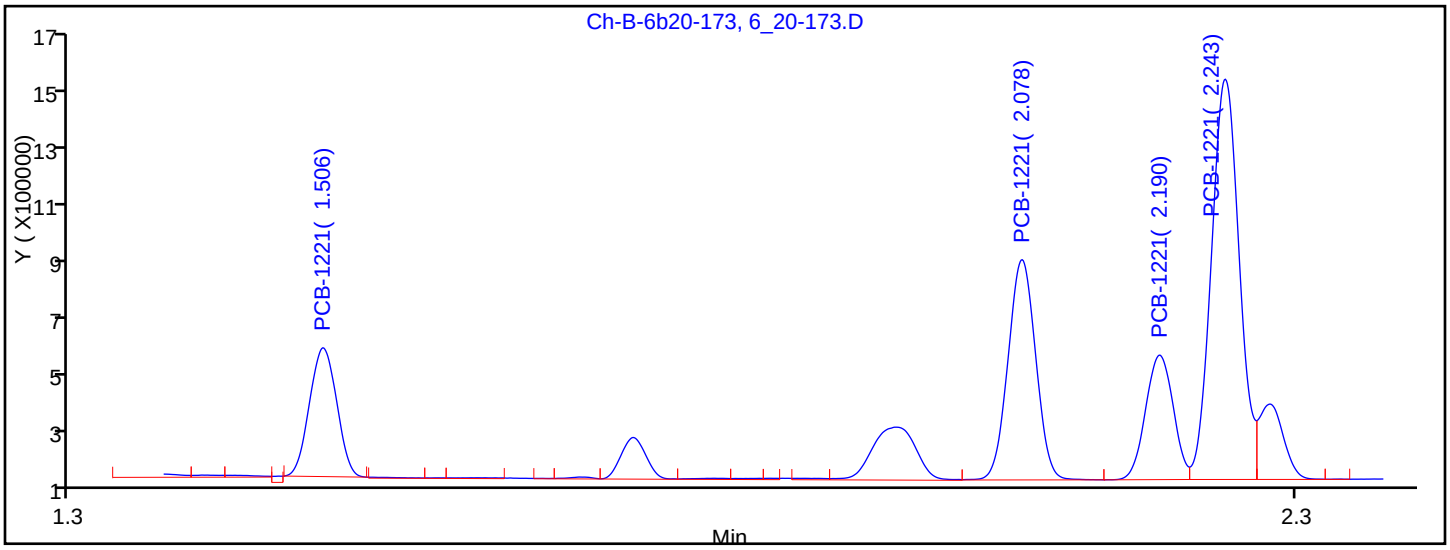
Column: Detector Ch-B-7b136

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.506	Response = 776823
2.078	Response = 1132670
2.190	Response = 640803
2.243	Response = 2081702



Manual Integration Results

1.506	Response = 651063	M
2.078	Response = 1132670	
2.190	Response = 640803	
2.243	Response = 2081702	

Reviewer: owenj, 23-Feb-2017 12:51:56

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-174.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Feb-2017 04:45:13 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:36:54 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 12:45:01

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.047	1.047	0.000	7363507	0.5000	0.5000	
2	1.143	1.143	0.000	109902579	0.5000	0.5000	M
						RPD = 0.00	
3 PCB-1221							M
1	1.514	1.514	0.000	2176	0.0200	0.0196	
1	2.116	2.116	0.000	3021	0.0200	0.0206	
1	2.192	2.192	0.000	1958	0.0200	0.0202	
1	2.240	2.240	0.000	7432	0.0200	0.0203	
		Average of Peak Amounts =				0.0201	
2	1.506	1.506	0.000	95399	0.0200	0.0185	M
2	2.078	2.078	0.000	96211	0.0200	0.0188	M
2	2.188	2.188	0.000	38438	0.0200	0.0181	M
2	2.243	2.243	0.000	140327	0.0200	0.0187	M
		Average of Peak Amounts =				0.0185	
						RPD = 8.35	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							M
1	3.890	3.890	0.000	15285	0.0200	0.0210	
1	4.190	4.190	0.000	17145	0.0200	0.0212	
1	4.384	4.384	0.000	17807	0.0200	0.0211	
1	4.606	4.606	0.000	10236	0.0200	0.0212	
1	4.787	4.787	0.000	12405	0.0200	0.0211	
		Average of Peak Amounts =				0.0211	
2	3.744	3.744	0.000	201725	0.0200	0.0204	M
2	3.826	3.826	0.000	191645	0.0200	0.0208	M
2	4.225	4.225	0.000	247119	0.0200	0.0242	M
2	4.353	4.353	0.000	302935	0.0200	0.0211	M
2	4.793	4.793	0.000	180109	0.0200	0.0212	M
		Average of Peak Amounts =				0.0215	
						RPD = 1.98	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00005 Amount Added: 0.25 Units: mL

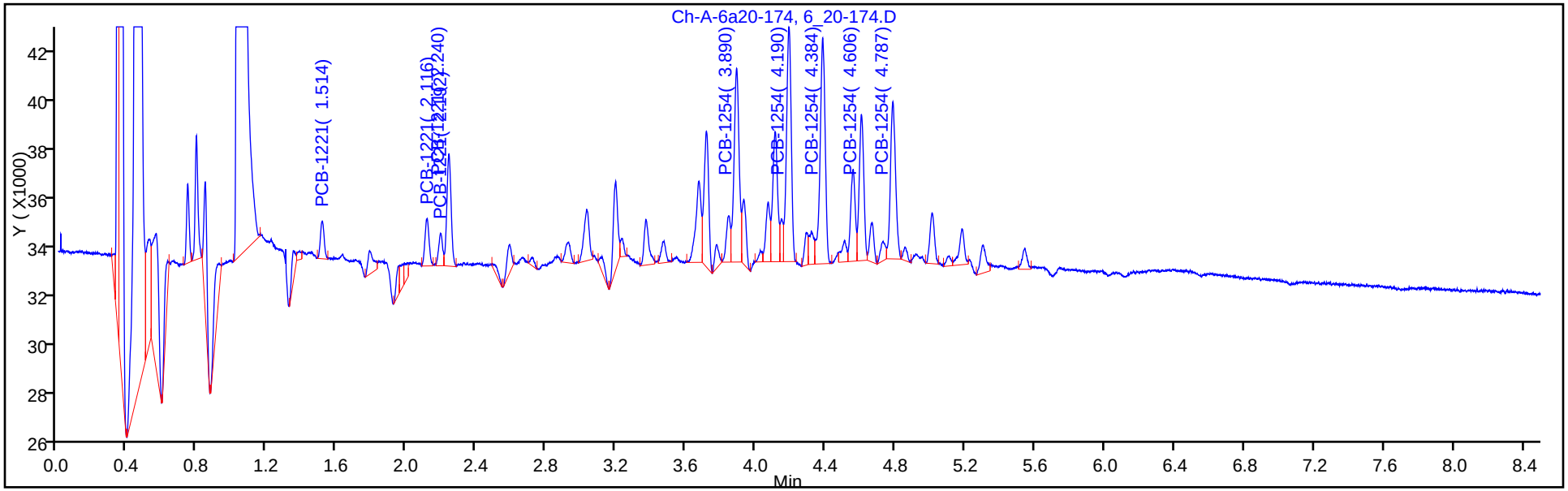
Report Date: 24-Feb-2017 10:36:55 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

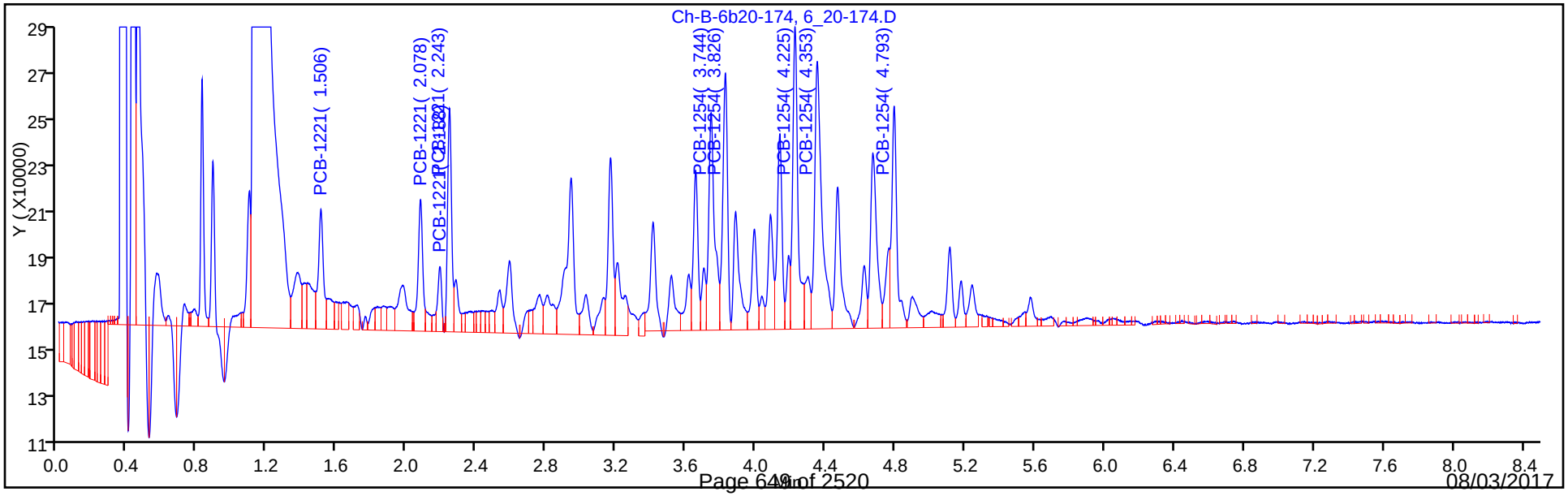
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-174.D

Injection Date:	23-Feb-2017 04:45:13	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

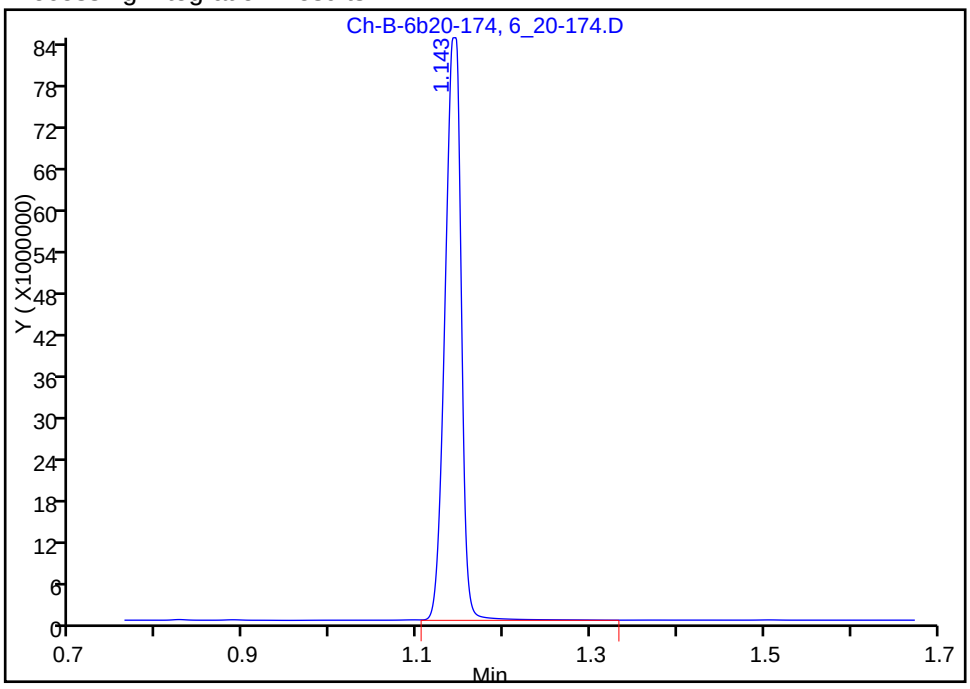
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-174.D
Injection Date: 23-Feb-2017 04:45:13 Instrument ID: HP6890-6
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

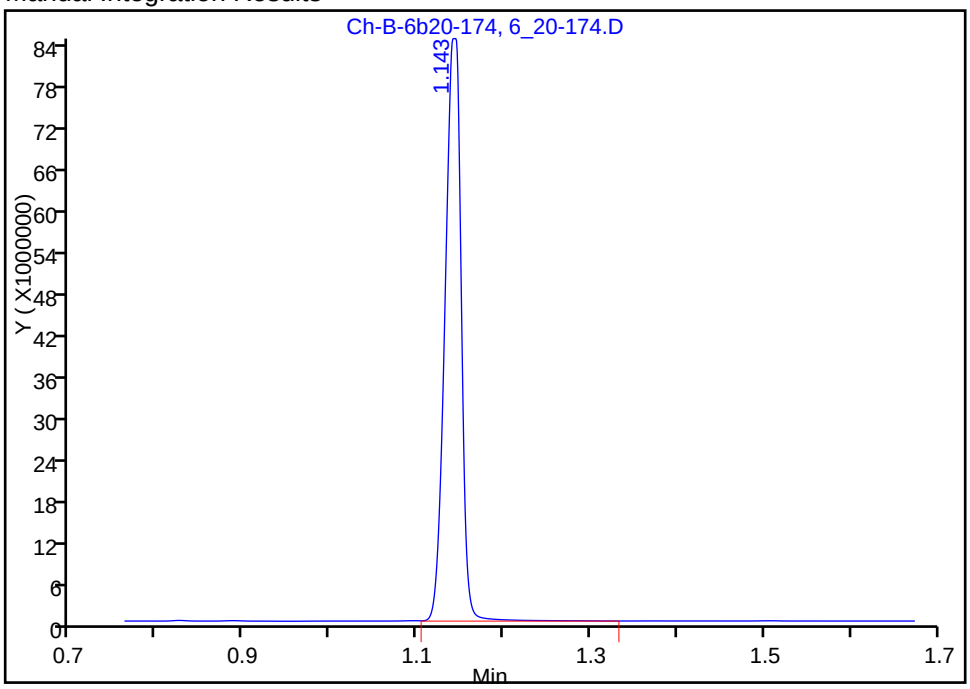
Processing Integration Results

RT: 1.14
Area: 110103982
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.14
Area: 109902579
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 23-Feb-2017 12:51:01
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 24-Feb-2017 10:36:55 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-174.D

Injection Date: 23-Feb-2017 04:45:13 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

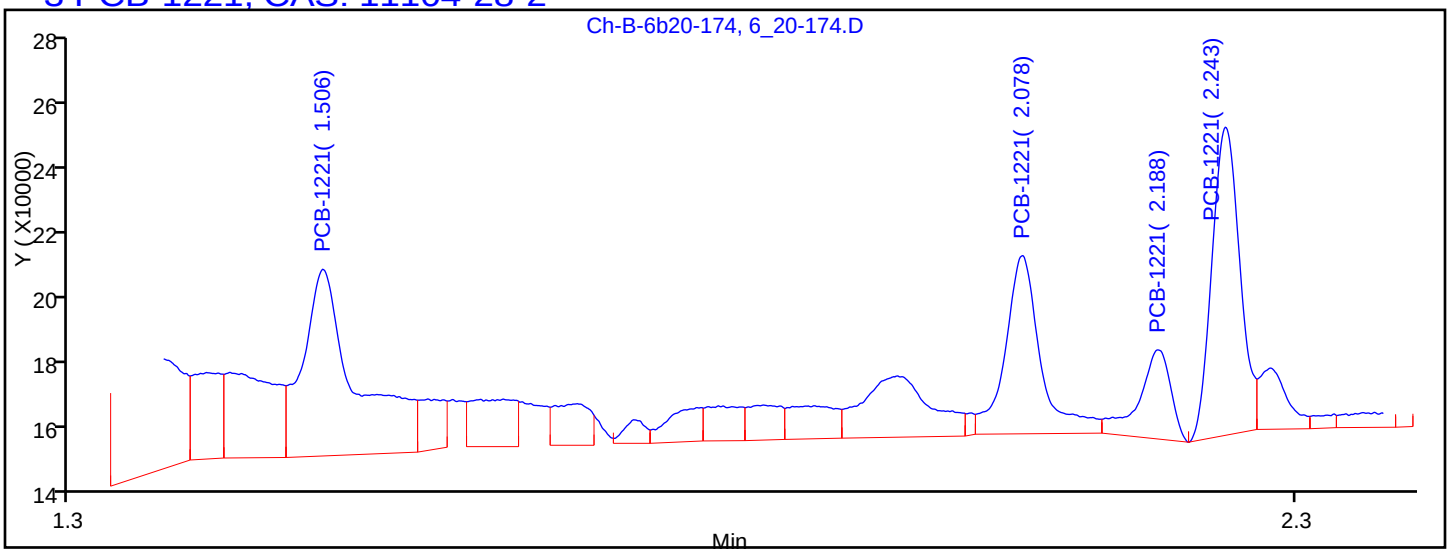
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

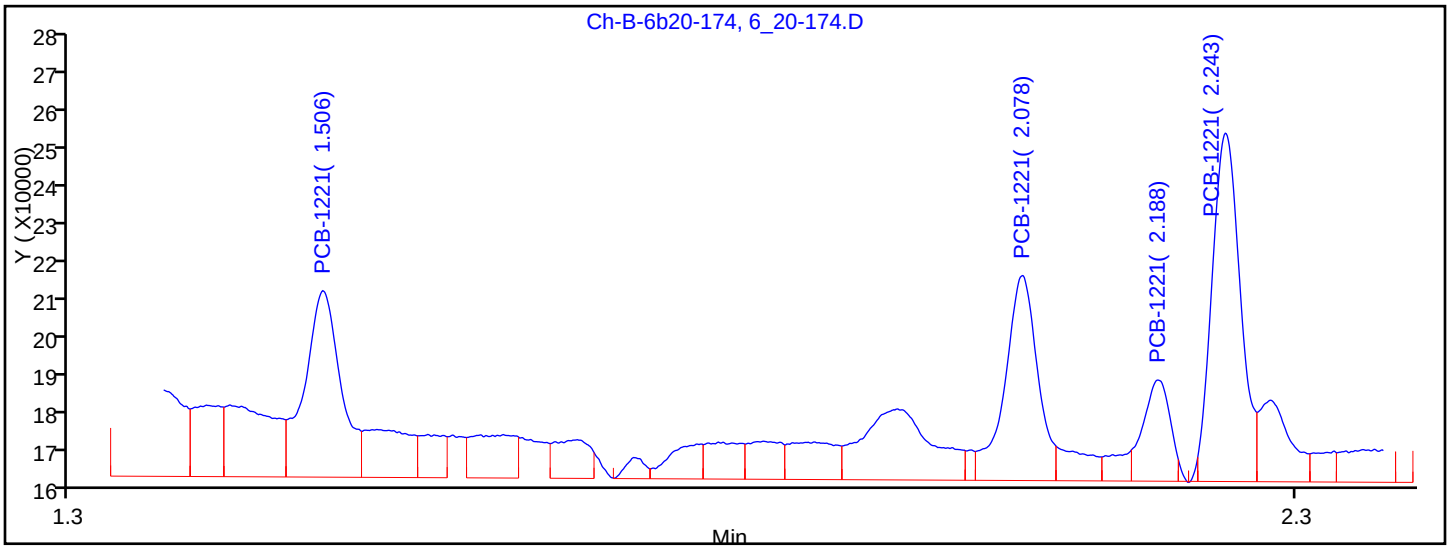
Column: Detector Ch-B-7b136

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.506	Response = 157726
2.078	Response = 99968
2.188	Response = 44791
2.243	Response = 135969



Manual Integration Results

1.506	Response = 95399	M
2.078	Response = 96211	M
2.188	Response = 38438	M
2.243	Response = 140327	M

Reviewer: owenj, 23-Feb-2017 12:51:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

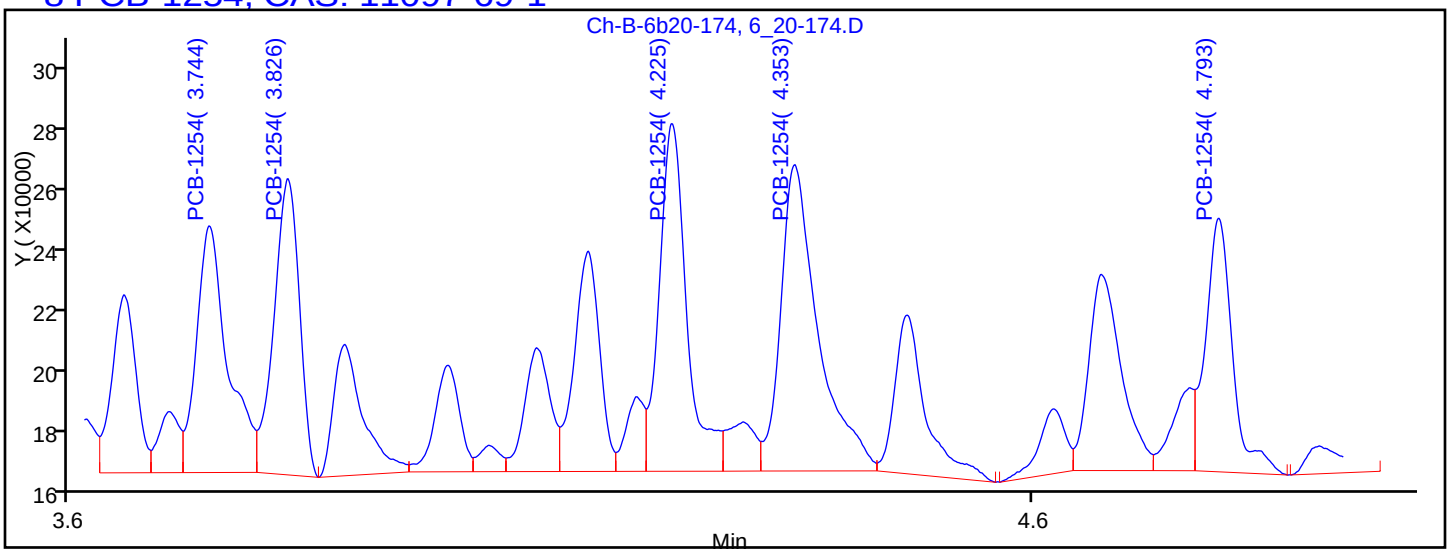
Report Date: 24-Feb-2017 10:36:55 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-174.D

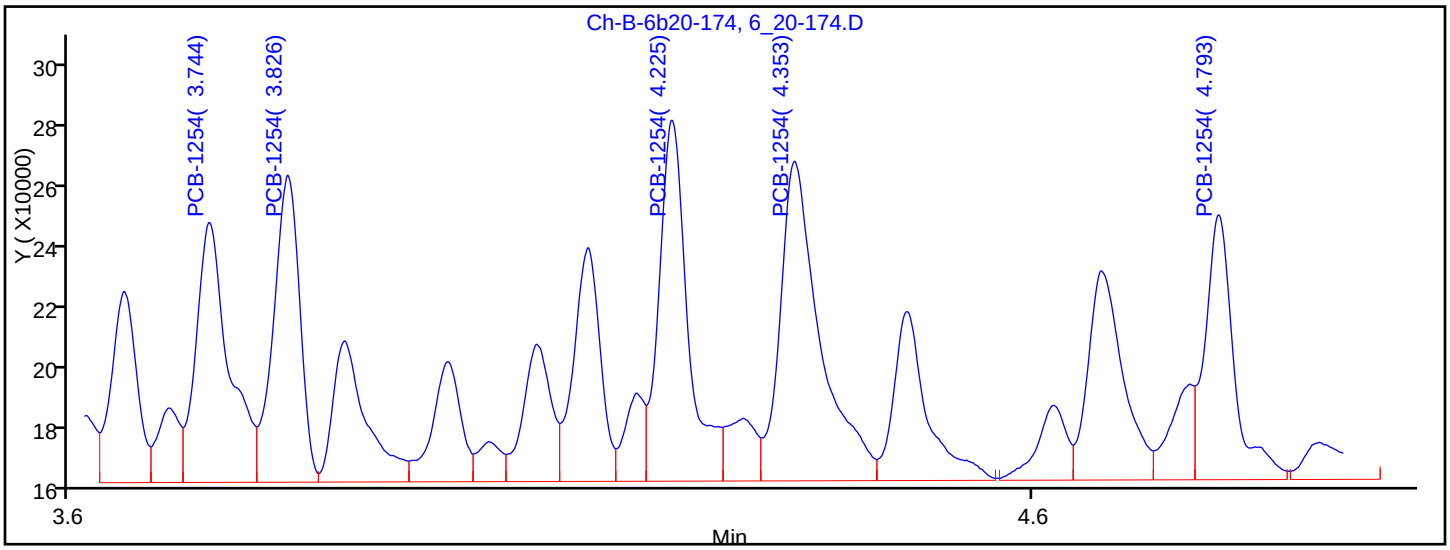
Injection Date:	23-Feb-2017 04:45:13	Instrument ID:	HP6890-6		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

8 PCB-1254, CAS: 11097-69-1



Processing Integration Results

3.744	Response = 181368
3.826	Response = 177818
4.225	Response = 225871
4.353	Response = 270962
4.793	Response = 160472



Manual Integration Results

3.744	Response = 201725	M
3.826	Response = 191645	M
4.225	Response = 247119	M
4.353	Response = 302935	M
4.793	Response = 180109	M

Reviewer: owenj, 23-Feb-2017 12:57:07

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 05:17 Calibration End Date: 02/23/2017 05:49 Calibration ID: 29817

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/22	6_20-178.D
Level 2	IC 480-345014/21	6_20-177.D
Level 3	IC 480-345014/20	6_20-176.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	0.0215	0.0183	0.0180			Lin1	0.0001	0.0180							1.0000		0.9900
PCB-1232 Peak 2	0.0087	0.0092	0.0091			Lin1	0	0.0091							1.0000		0.9900
PCB-1232 Peak 3	0.0352	0.0319	0.0336			Ave		0.0336				4.9		20.0			
PCB-1232 Peak 4	0.0184	0.0121	0.0120			Lin1	0.0001	0.0119							1.0000		0.9900
PCB-1232 Peak 5	0.0095	0.0080	0.0080			Ave		0.0085				10.5		20.0			
PCB-1262 Peak 1	0.0536	0.0482	0.0508			Ave		0.0509				5.3		20.0			
PCB-1262 Peak 2	0.0381	0.0361	0.0384			Ave		0.0375				3.3		20.0			
PCB-1262 Peak 3	0.0858	0.0882	0.0948			Ave		0.0896				5.2		20.0			
PCB-1262 Peak 4	0.0335	0.0309	0.0336			Ave		0.0327				4.7		20.0			
PCB-1262 Peak 5	0.0325	0.0320	0.0339			Ave		0.0328				3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 05:17 Calibration End Date: 02/23/2017 05:49 Calibration ID: 29817

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/22	6_20-178.D
Level 2	IC 480-345014/21	6_20-177.D
Level 3	IC 480-345014/20	6_20-176.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	6384	140050	545579			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	2584	69892	275542			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Ave	10461	243776	1019885			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	5478	92766	363848			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Ave	2832	60915	243266			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Ave	15918	368353	1543642			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Ave	11305	275777	1167640			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Ave	25469	673806	2880415			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Ave	9961	236183	1020261			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Ave	9636	244104	1029383			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-176.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Feb-2017 05:17:04 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:06 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 12:58:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.046	1.047	-0.001	7594401	0.5000	0.5000	
2	1.145	1.143	0.002	110601298	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.240	2.238	0.002	545579	2.00	1.99	M
1	2.720	2.720	0.000	275542	2.00	2.00	M
1	2.923	2.922	0.000	1019885	2.00	2.00	M
1	3.010	3.008	0.002	363848	2.00	2.00	M
1	3.073	3.073	-0.001	243266	2.00	1.88	M
		Average of Peak Amounts =				1.97	
2	2.243	2.244	-0.001	6228631	2.00	1.94	
2	2.583	2.583	0.001	6150304	2.00	1.95	
2	2.908	2.906	0.002	12537855	2.00	1.99	
2	3.028	3.027	0.001	4536560	2.00	1.72	
2	3.127	3.127	0.000	3108793	2.00	1.96	
		Average of Peak Amounts =				1.91	
						RPD = 3.15	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	4.913	4.913	0.000	1543642	2.00	2.00	M
1	5.103	5.103	0.000	1167640	2.00	2.05	M
1	5.302	5.303	-0.001	2880415	2.00	2.12	M
1	5.601	5.601	0.000	1020261	2.00	2.05	M
1	5.643	5.642	0.000	1029383	2.00	2.07	M
		Average of Peak Amounts =				2.06	
2	4.839	4.839	0.000	13895791	2.00	1.86	
2	5.107	5.107	0.000	11842919	2.00	1.85	
2	5.241	5.239	0.002	28331825	2.00	2.04	
2	5.536	5.535	0.001	9817133	2.00	1.87	
2	5.578	5.578	0.000	15274923	2.00	1.98	
		Average of Peak Amounts =				1.92	
						RPD = 6.81	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00005 Amount Added: 0.25 Units: mL

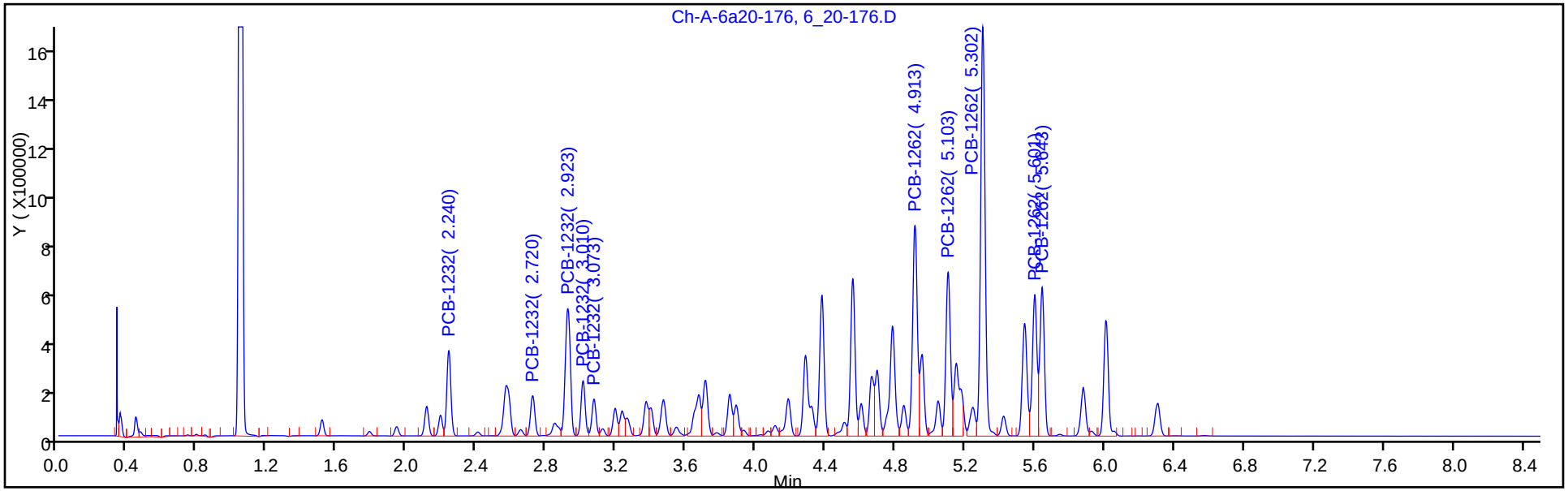
Report Date: 24-Feb-2017 10:37:07 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

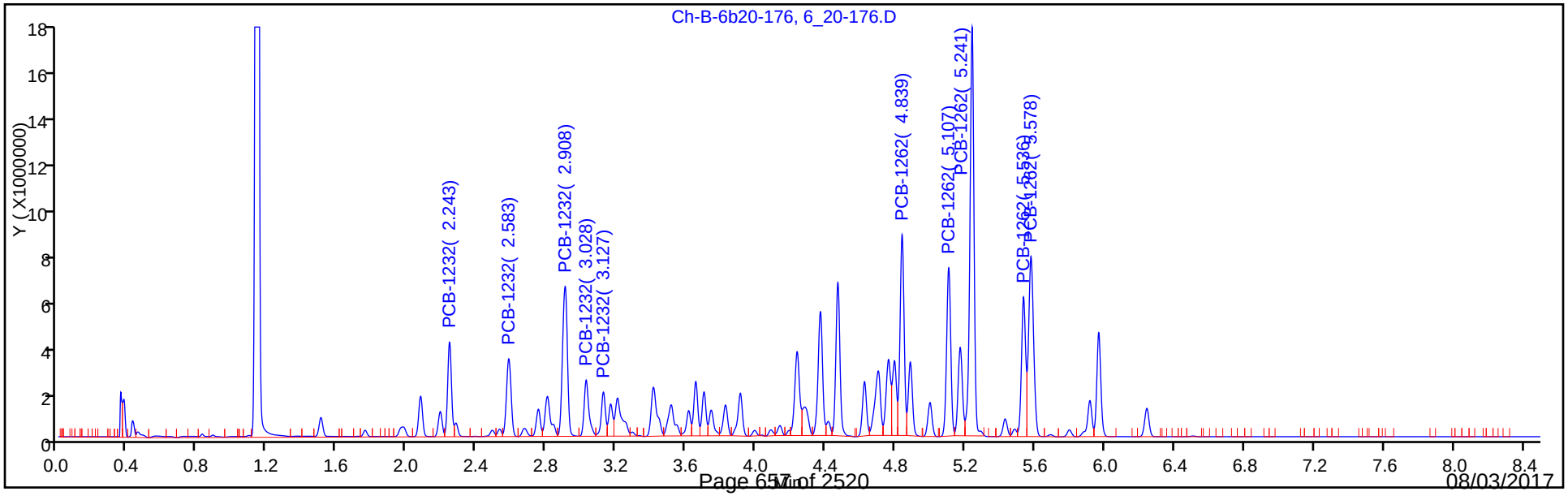
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-176.D

Injection Date:	23-Feb-2017 05:17:04	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 24-Feb-2017 10:37:07 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-176.D

Injection Date: 23-Feb-2017 05:17:04 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

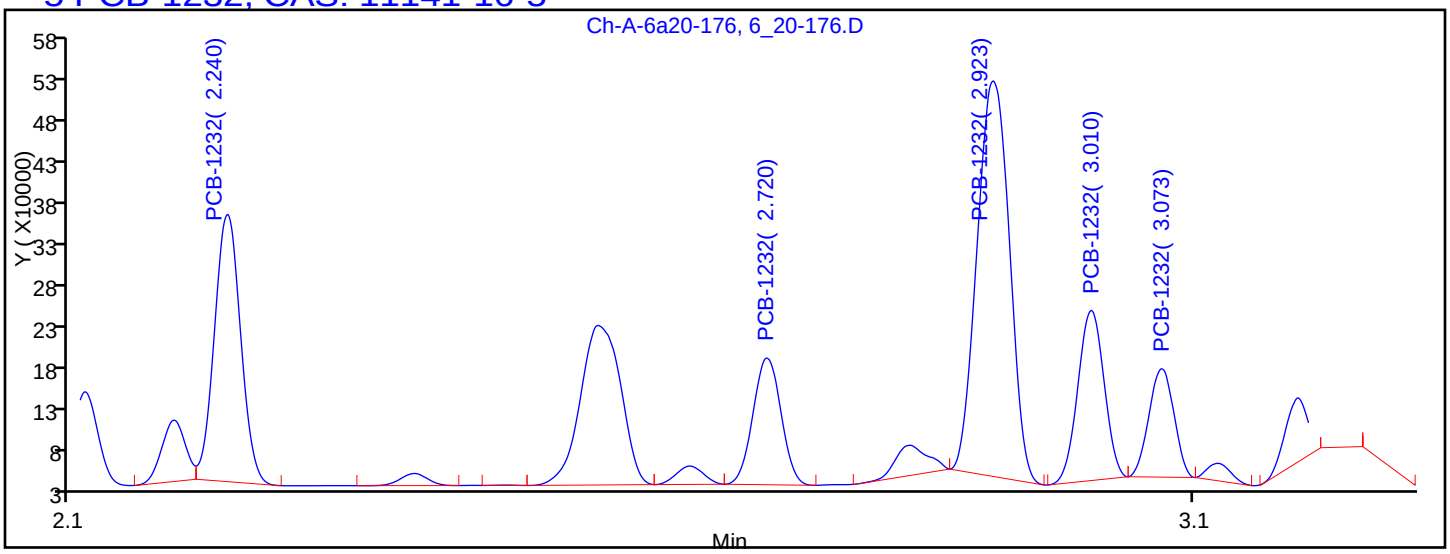
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

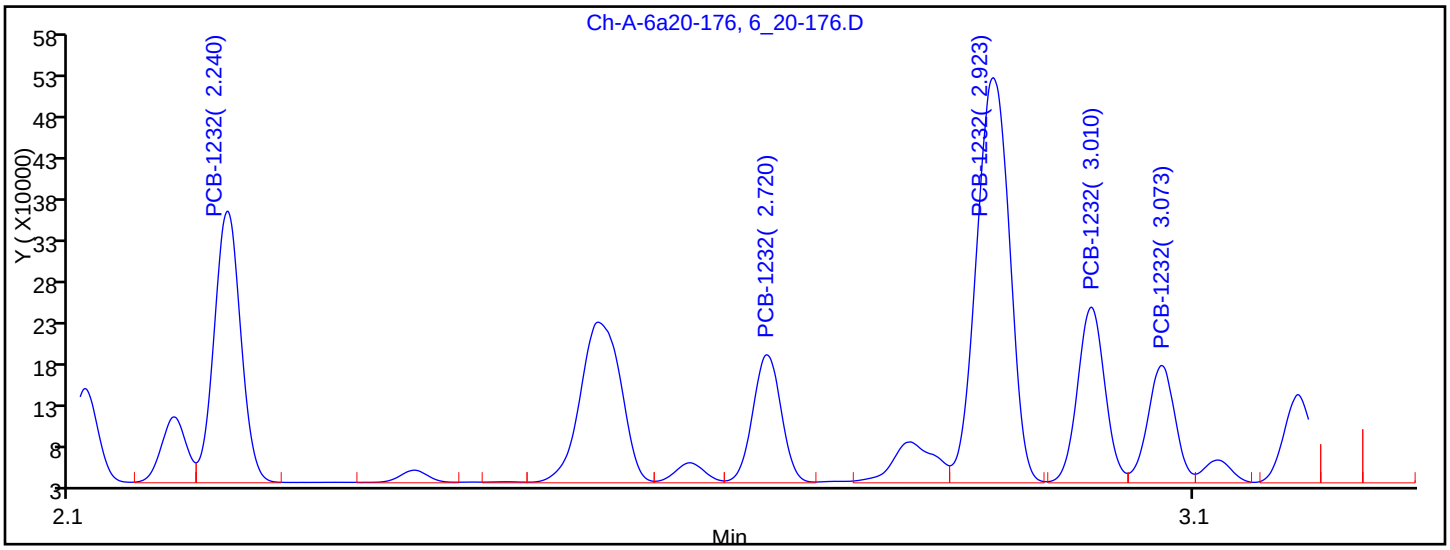
Column: Detector Ch-A-7A136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.240	Response = 525891
2.720	Response = 267607
2.923	Response = 964322
3.010	Response = 336432
3.073	Response = 203911



Manual Integration Results

2.240	Response = 545579	M
2.720	Response = 275542	M
2.923	Response = 1019885	M
3.010	Response = 363848	M
3.073	Response = 243266	M

Reviewer: owenj, 23-Feb-2017 12:58:58

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 24-Feb-2017 10:37:07 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-176.D

Injection Date: 23-Feb-2017 05:17:04 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

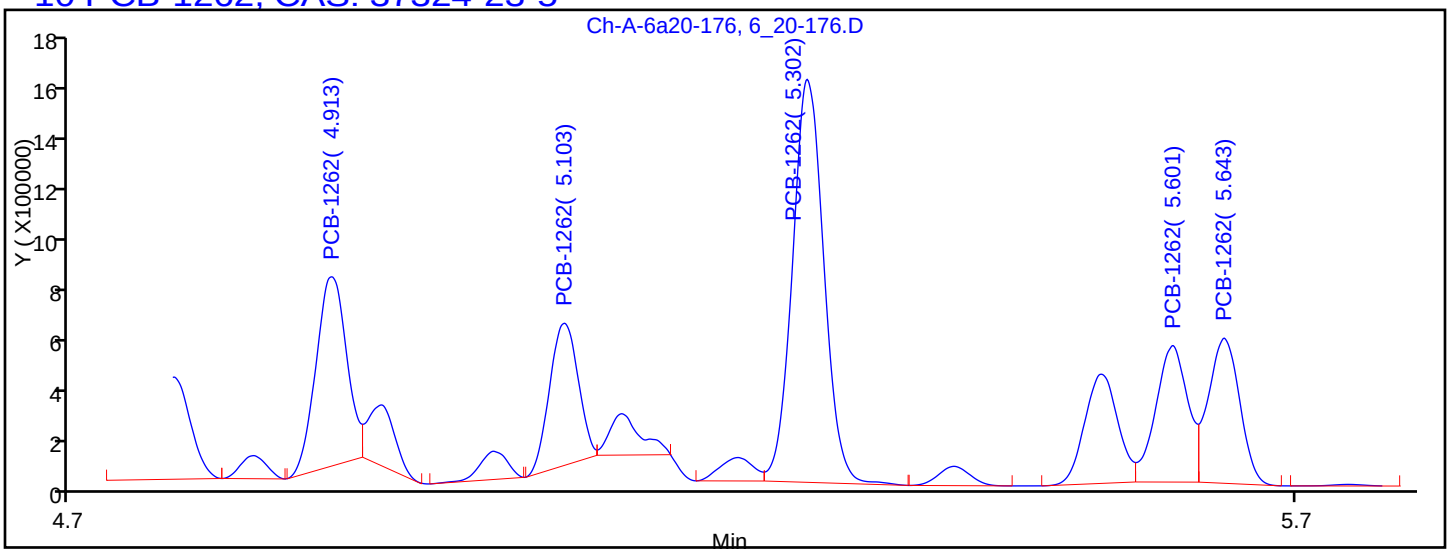
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

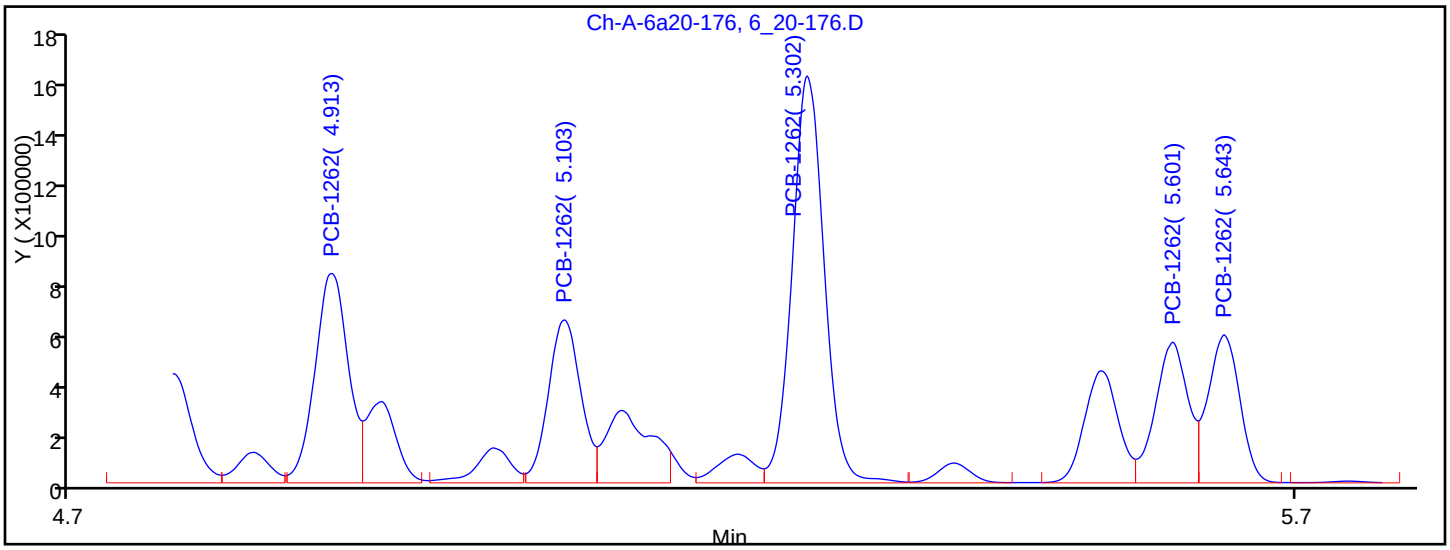
Column: Detector Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.913	Response = 1284335
5.103	Response = 898996
5.302	Response = 2800697
5.601	Response = 971010
5.643	Response = 995817



Manual Integration Results

4.913	Response = 1543642	M
5.103	Response = 1167640	M
5.302	Response = 2880415	M
5.601	Response = 1020261	M
5.643	Response = 1029383	M

Reviewer: owenj, 23-Feb-2017 12:58:58

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-177.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Feb-2017 05:33:05 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:11 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 12:59:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.047	0.000	7635217	0.5000	0.5000	
2	1.146	1.143	0.003	113401529	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.240	2.238	0.002	140050	0.5000	0.5061	
1	2.721	2.720	0.001	69892	0.5000	0.5041	
1	2.923	2.922	0.000	243776	0.5000	0.4754	
1	3.009	3.008	0.001	92766	0.5000	0.4992	
1	3.073	3.073	0.000	60915	0.5000	0.4689	
		Average of Peak Amounts =				0.4907	
2	2.245	2.244	0.001	1882645	0.5000	0.5618	M
2	2.584	2.583	0.002	1830879	0.5000	0.5536	M
2	2.906	2.906	0.000	3366050	0.5000	0.5092	M
2	3.028	3.027	0.001	1314649	0.5000	0.4875	M
2	3.127	3.127	0.000	888674	0.5000	0.5376	M
		Average of Peak Amounts =				0.5300	
						RPD = 7.68	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							
1	4.914	4.913	0.001	368353	0.5000	0.4740	
1	5.106	5.103	0.003	275777	0.5000	0.4810	
1	5.303	5.303	-0.001	673806	0.5000	0.4924	
1	5.602	5.601	0.001	236183	0.5000	0.4732	
1	5.644	5.642	0.002	244104	0.5000	0.4878	
		Average of Peak Amounts =				0.4817	
2	4.840	4.839	0.001	3322073	0.5000	0.4331	
2	5.106	5.107	-0.001	2869439	0.5000	0.4373	
2	5.239	5.239	0.000	6340012	0.5000	0.4456	
2	5.535	5.535	0.000	2375329	0.5000	0.4420	
2	5.578	5.578	0.000	3551671	0.5000	0.4497	
		Average of Peak Amounts =				0.4416	
						RPD = 8.69	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00008 Amount Added: 0.25 Units: mL

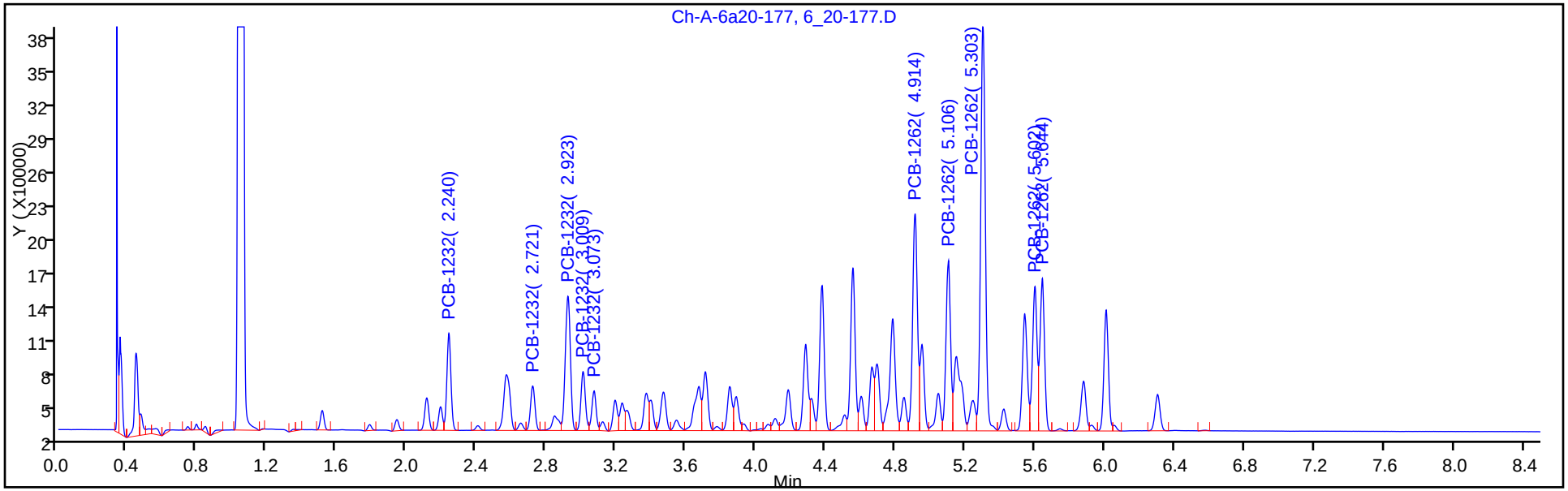
Report Date: 24-Feb-2017 10:37:11 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

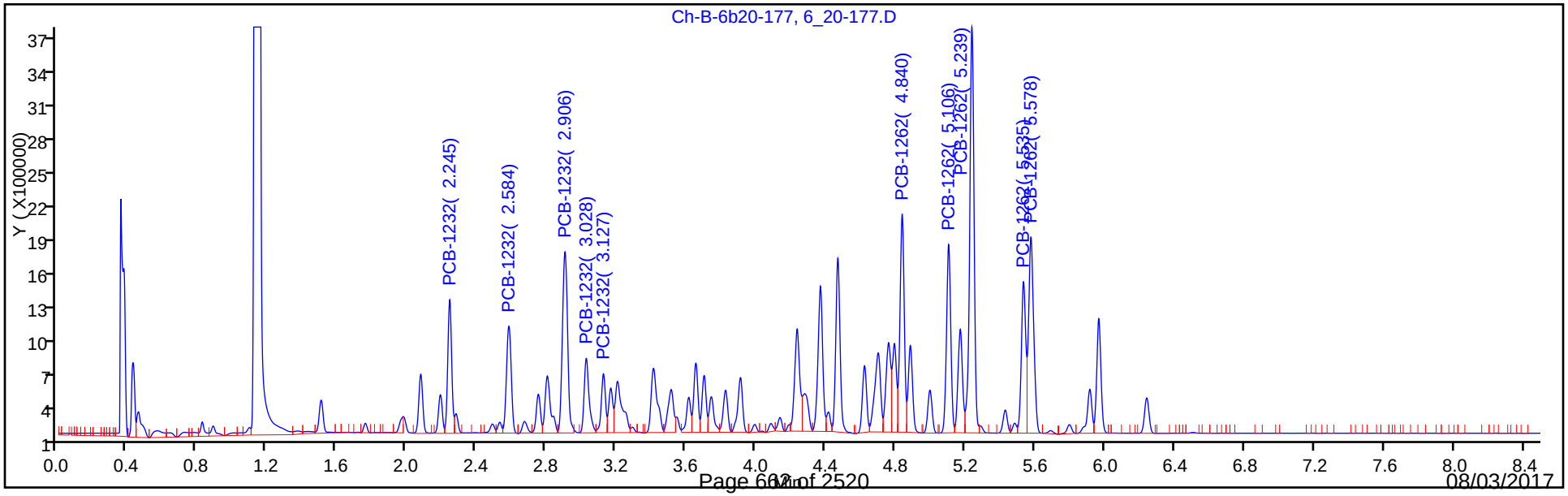
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-177.D

Injection Date:	23-Feb-2017 05:33:05	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-178.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Feb-2017 05:49:00 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:14 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 13:06:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.046	1.046	0.000	7423429	0.5000	0.5000	
2	1.144	1.144	0.000	110248955	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.238	2.238	0.000	6384	0.0200	0.0198	
1	2.720	2.720	0.000	2584	0.0200	0.0199	M
1	2.922	2.922	0.000	10461	0.0200	0.0210	M
1	3.008	3.008	0.000	5478	0.0200	0.0200	M
1	3.073	3.073	0.000	2832	0.0200	0.0224	M
		Average of Peak Amounts =				0.0206	
2	2.244	2.244	0.000	103059	0.0200	0.0181	M
2	2.583	2.583	0.000	109816	0.0200	0.0184	M
2	2.906	2.906	0.000	224807	0.0200	0.0197	M
2	3.027	3.027	0.000	60963	0.0200	0.0233	M
2	3.127	3.127	0.000	50931	0.0200	0.0189	M
		Average of Peak Amounts =				0.0197	
						RPD = 4.75	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	4.913	4.913	0.000	15918	0.0200	0.0211	M
1	5.103	5.103	0.000	11305	0.0200	0.0203	M
1	5.303	5.303	0.000	25469	0.0200	0.0191	M
1	5.601	5.601	0.000	9961	0.0200	0.0205	M
1	5.642	5.642	0.000	9636	0.0200	0.0198	M
		Average of Peak Amounts =				0.0202	
2	4.839	4.839	0.000	179692	0.0200	0.0241	M
2	5.107	5.107	0.000	153101	0.0200	0.0240	M
2	5.239	5.239	0.000	300896	0.0200	0.0218	M
2	5.535	5.535	0.000	123221	0.0200	0.0236	M
2	5.578	5.578	0.000	170300	0.0200	0.0222	M
		Average of Peak Amounts =				0.0231	
						RPD = 13.67	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00005 Amount Added: 0.25 Units: mL

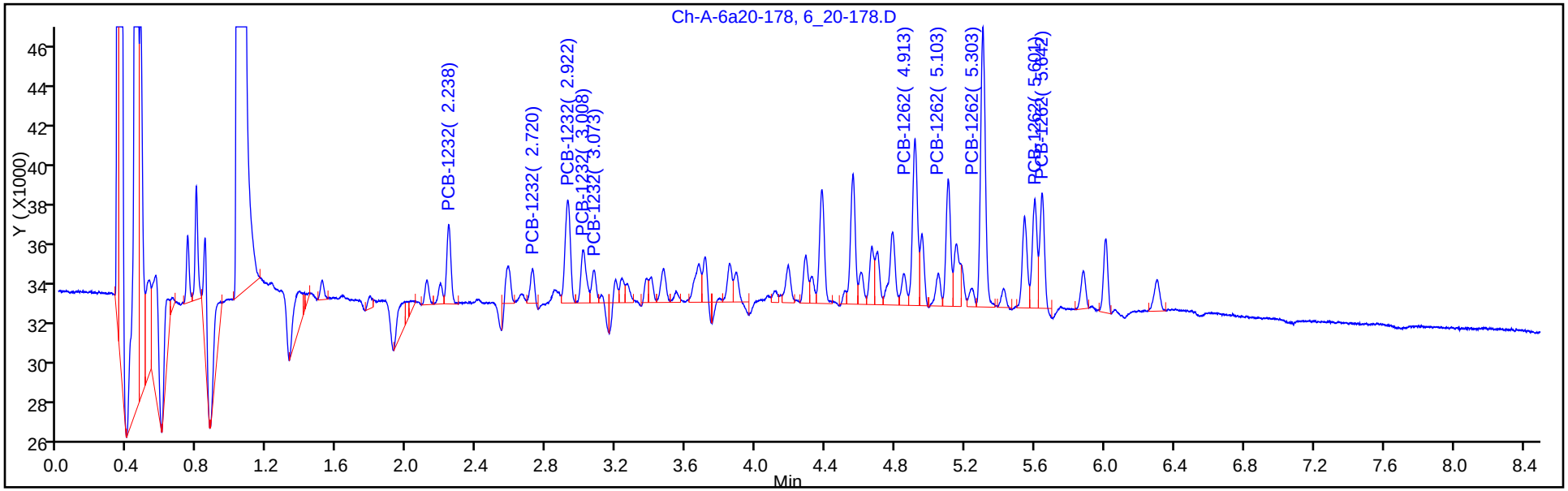
Report Date: 24-Feb-2017 10:37:15 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

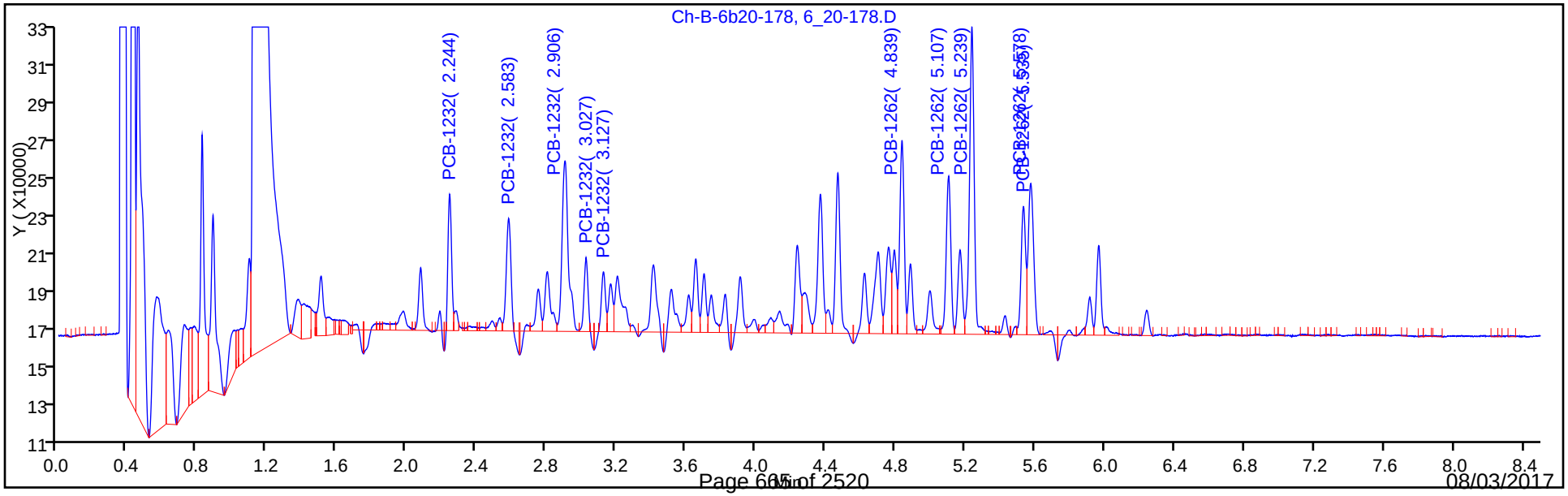
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-178.D

Injection Date:	23-Feb-2017 05:49:00	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 24-Feb-2017 10:37:15 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-178.D

Injection Date: 23-Feb-2017 05:49:00 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

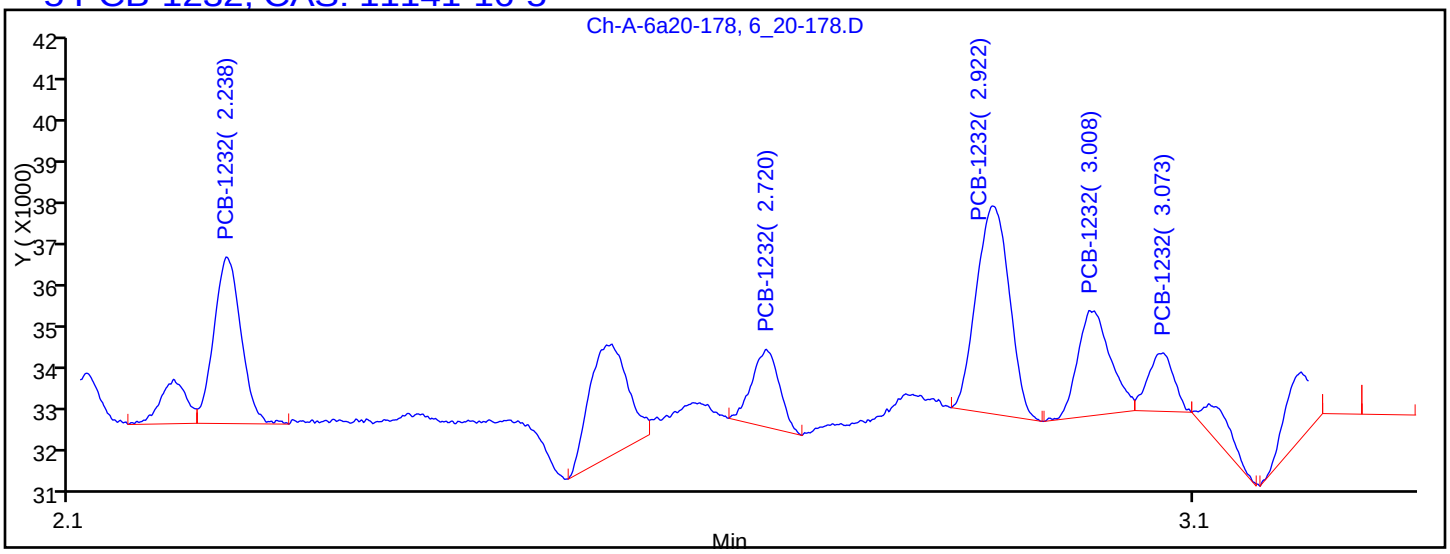
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

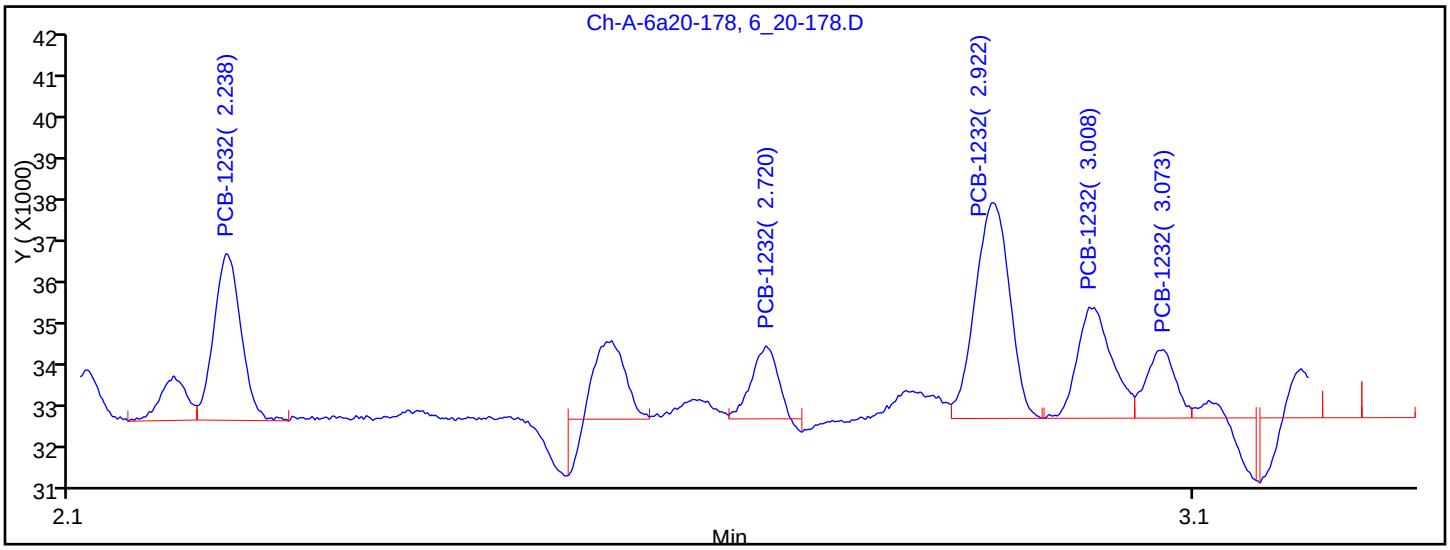
Column: Detector Ch-A-7A136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.238	Response = 6384
2.720	Response = 2999
2.922	Response = 9676
3.008	Response = 4872
3.073	Response = 2144



Manual Integration Results

2.238	Response = 6384	
2.720	Response = 2584	M
2.922	Response = 10461	M
3.008	Response = 5478	M
3.073	Response = 2832	M

Reviewer: owenj, 23-Feb-2017 13:06:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 24-Feb-2017 10:37:15 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-178.D

Injection Date: 23-Feb-2017 05:49:00 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

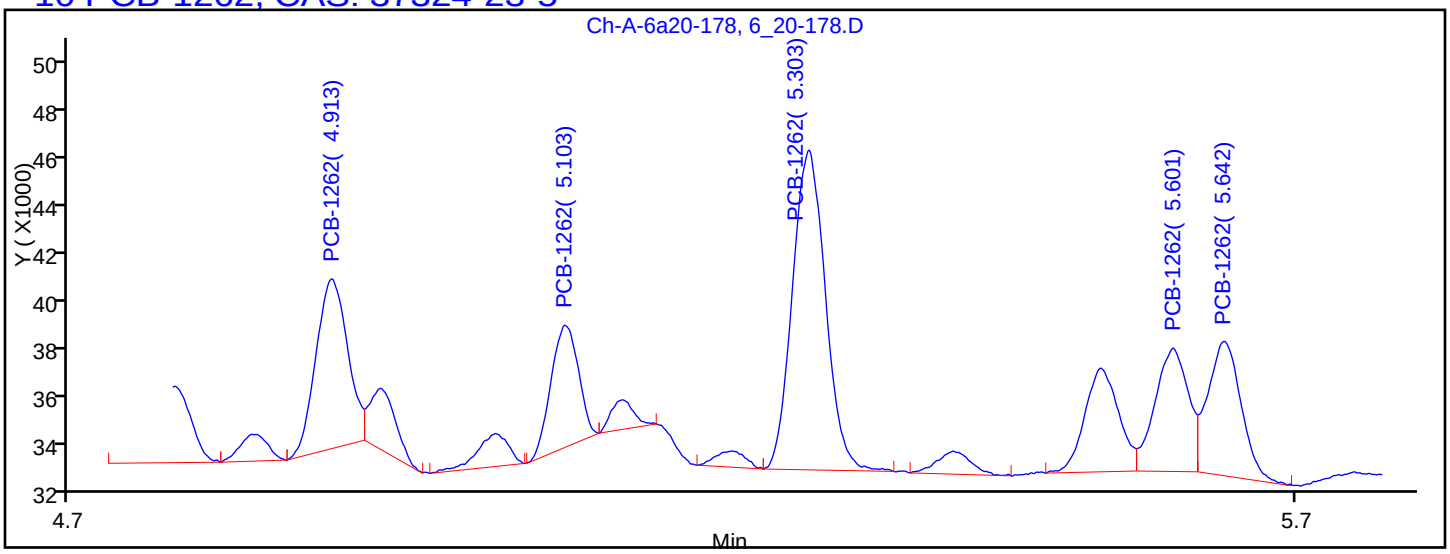
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

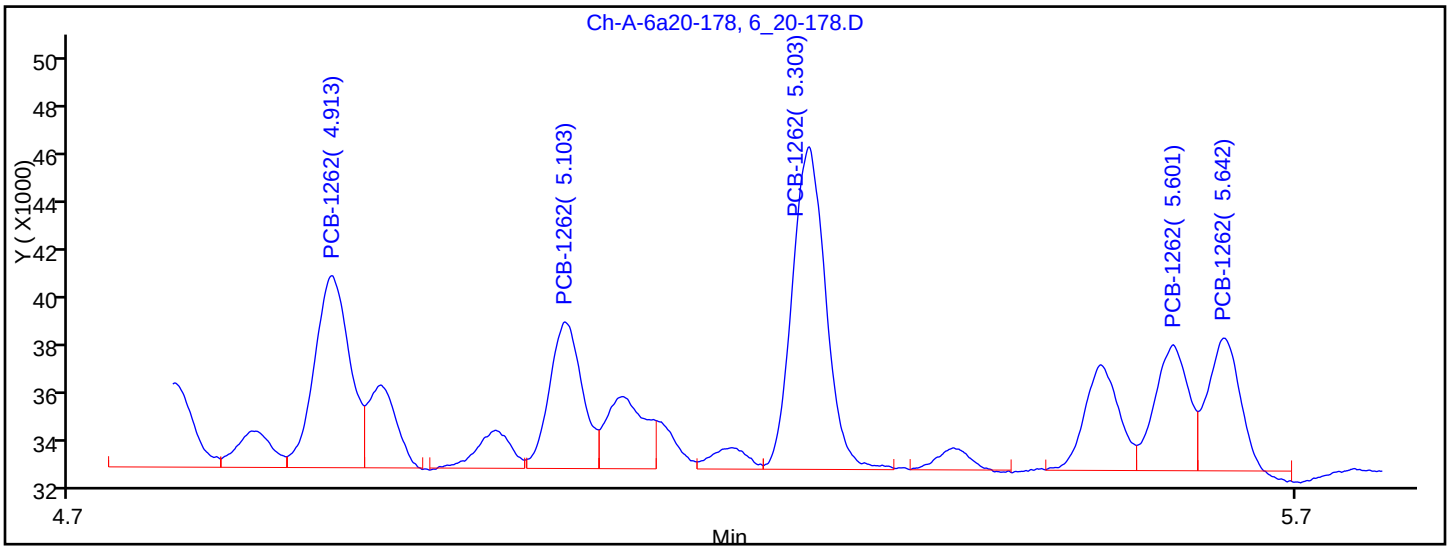
Column: Detector Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.913	Response = 12659
5.103	Response = 7866
5.303	Response = 24803
5.601	Response = 9646
5.642	Response = 10498



Manual Integration Results

4.913	Response = 15918	M
5.103	Response = 11305	M
5.303	Response = 25469	M
5.601	Response = 9961	M
5.642	Response = 9636	M

Reviewer: owenj, 23-Feb-2017 13:06:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 05:17 Calibration End Date: 02/23/2017 05:49 Calibration ID: 29818

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/22	6_20-178.D
Level 2	IC 480-345014/21	6_20-177.D
Level 3	IC 480-345014/20	6_20-176.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	0.0234	0.0166	0.0141			Lin1	0.0002	0.0144							0.9960		0.9900
PCB-1232 Peak 2	0.0249	0.0161	0.0139			Lin1	0.0002	0.0142							0.9970		0.9900
PCB-1232 Peak 3	0.0510	0.0297	0.0283			Lin1	0.0005	0.0282							1.0000		0.9900
PCB-1232 Peak 4	0.0138	0.0116	0.0103			Ave		0.0119				15.2		20.0			
PCB-1232 Peak 5	0.0115	0.0078	0.0070			Lin1	0.0001	0.0071							0.9980		0.9900
PCB-1262 Peak 1	0.0407	0.0293	0.0314			Ave		0.0338				18.0		20.0			
PCB-1262 Peak 2	0.0347	0.0253	0.0268			Ave		0.0289				17.5		20.0			
PCB-1262 Peak 3	0.0682	0.0559	0.0640			Ave		0.0627				10.0		20.0			
PCB-1262 Peak 4	0.0279	0.0209	0.0222			Ave		0.0237				15.8		20.0			
PCB-1262 Peak 5	0.0386	0.0313	0.0345			Ave		0.0348				10.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 05:17 Calibration End Date: 02/23/2017 05:49 Calibration ID: 29818

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/22	6_20-178.D
Level 2	IC 480-345014/21	6_20-177.D
Level 3	IC 480-345014/20	6_20-176.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	103059	1882645	6228631			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	109816	1830879	6150304			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	224807	3366050	12537855			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Ave	60963	1314649	4536560			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	50931	888674	3108793			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Ave	179692	3322073	13895791			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Ave	153101	2869439	11842919			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Ave	300896	6340012	28331825			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Ave	123221	2375329	9817133			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Ave	170300	3551671	15274923			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-176.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Feb-2017 05:17:04 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:06 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 12:58:58

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.046	1.047	-0.001	7594401	0.5000	0.5000	
2	1.145	1.143	0.002	110601298	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.240	2.238	0.002	545579	2.00	1.99	M
1	2.720	2.720	0.000	275542	2.00	2.00	M
1	2.923	2.922	0.000	1019885	2.00	2.00	M
1	3.010	3.008	0.002	363848	2.00	2.00	M
1	3.073	3.073	-0.001	243266	2.00	1.88	M
		Average of Peak Amounts =				1.97	
2	2.243	2.244	-0.001	6228631	2.00	1.94	
2	2.583	2.583	0.001	6150304	2.00	1.95	
2	2.908	2.906	0.002	12537855	2.00	1.99	
2	3.028	3.027	0.001	4536560	2.00	1.72	
2	3.127	3.127	0.000	3108793	2.00	1.96	
		Average of Peak Amounts =				1.91	
						RPD = 3.15	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	4.913	4.913	0.000	1543642	2.00	2.00	M
1	5.103	5.103	0.000	1167640	2.00	2.05	M
1	5.302	5.303	-0.001	2880415	2.00	2.12	M
1	5.601	5.601	0.000	1020261	2.00	2.05	M
1	5.643	5.642	0.000	1029383	2.00	2.07	M
		Average of Peak Amounts =				2.06	
2	4.839	4.839	0.000	13895791	2.00	1.86	
2	5.107	5.107	0.000	11842919	2.00	1.85	
2	5.241	5.239	0.002	28331825	2.00	2.04	
2	5.536	5.535	0.001	9817133	2.00	1.87	
2	5.578	5.578	0.000	15274923	2.00	1.98	
		Average of Peak Amounts =				1.92	
						RPD = 6.81	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00005 Amount Added: 0.25 Units: mL

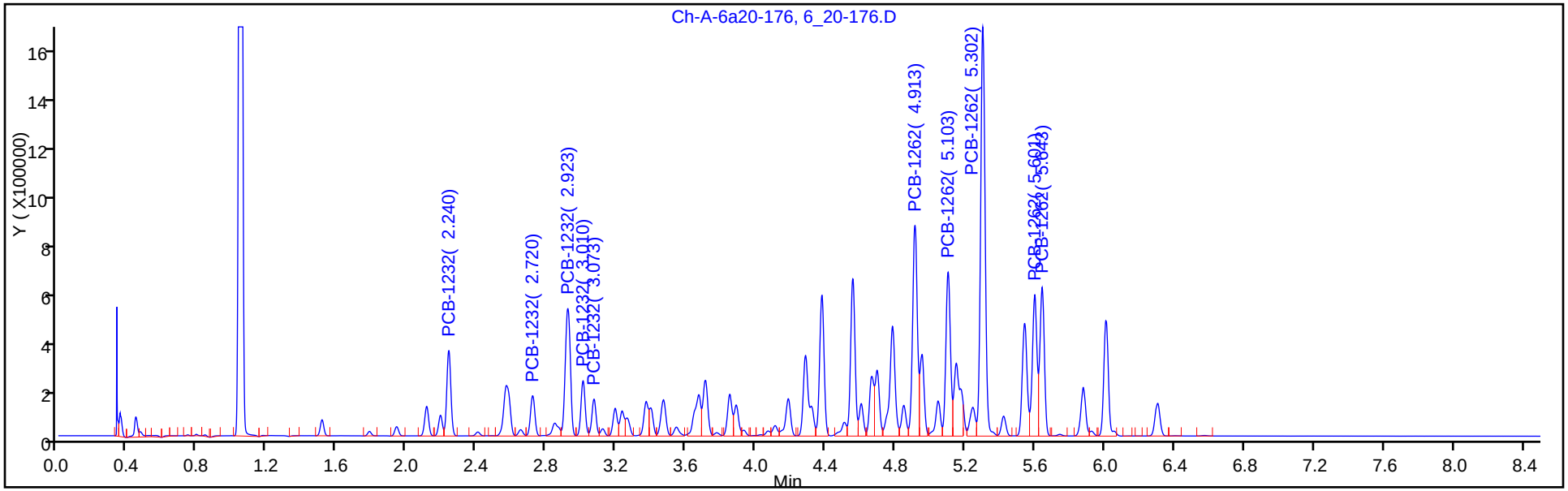
Report Date: 24-Feb-2017 10:37:07 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

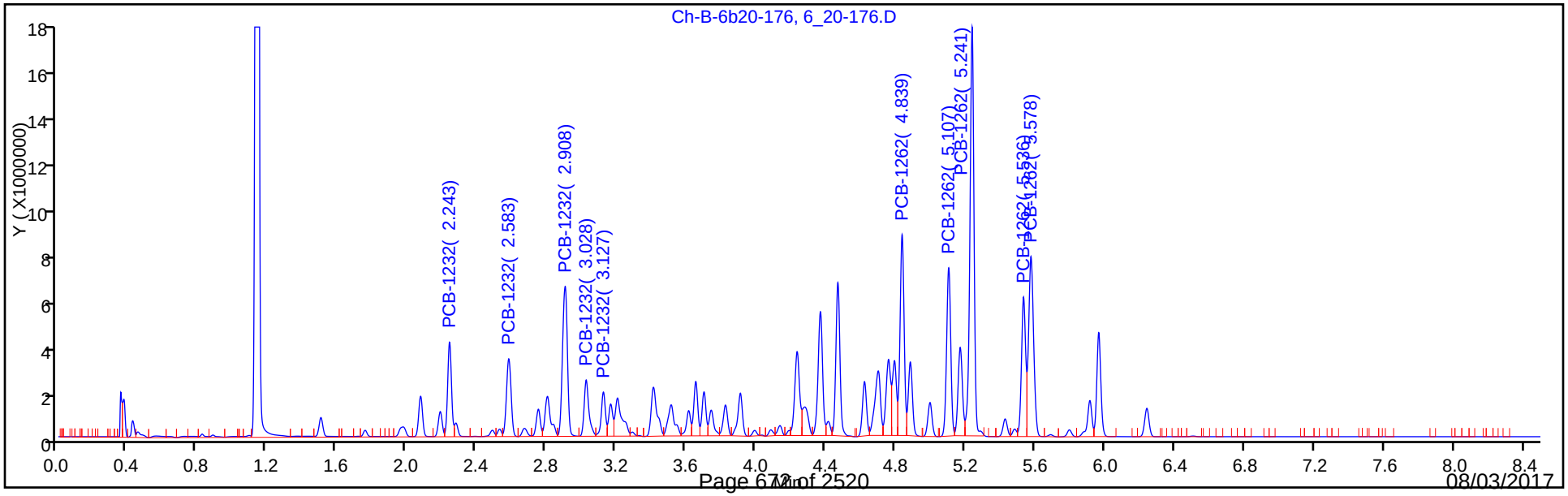
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-176.D

Injection Date:	23-Feb-2017 05:17:04	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-177.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Feb-2017 05:33:05 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:11 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 12:59:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.047	0.000	7635217	0.5000	0.5000	
2	1.146	1.143	0.003	113401529	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.240	2.238	0.002	140050	0.5000	0.5061	
1	2.721	2.720	0.001	69892	0.5000	0.5041	
1	2.923	2.922	0.000	243776	0.5000	0.4754	
1	3.009	3.008	0.001	92766	0.5000	0.4992	
1	3.073	3.073	0.000	60915	0.5000	0.4689	
		Average of Peak Amounts =				0.4907	
2	2.245	2.244	0.001	1882645	0.5000	0.5618	M
2	2.584	2.583	0.002	1830879	0.5000	0.5536	M
2	2.906	2.906	0.000	3366050	0.5000	0.5092	M
2	3.028	3.027	0.001	1314649	0.5000	0.4875	M
2	3.127	3.127	0.000	888674	0.5000	0.5376	M
		Average of Peak Amounts =				0.5300	
						RPD = 7.68	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							
1	4.914	4.913	0.001	368353	0.5000	0.4740	
1	5.106	5.103	0.003	275777	0.5000	0.4810	
1	5.303	5.303	-0.001	673806	0.5000	0.4924	
1	5.602	5.601	0.001	236183	0.5000	0.4732	
1	5.644	5.642	0.002	244104	0.5000	0.4878	
		Average of Peak Amounts =				0.4817	
2	4.840	4.839	0.001	3322073	0.5000	0.4331	
2	5.106	5.107	-0.001	2869439	0.5000	0.4373	
2	5.239	5.239	0.000	6340012	0.5000	0.4456	
2	5.535	5.535	0.000	2375329	0.5000	0.4420	
2	5.578	5.578	0.000	3551671	0.5000	0.4497	
		Average of Peak Amounts =				0.4416	
						RPD = 8.69	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00008 Amount Added: 0.25 Units: mL

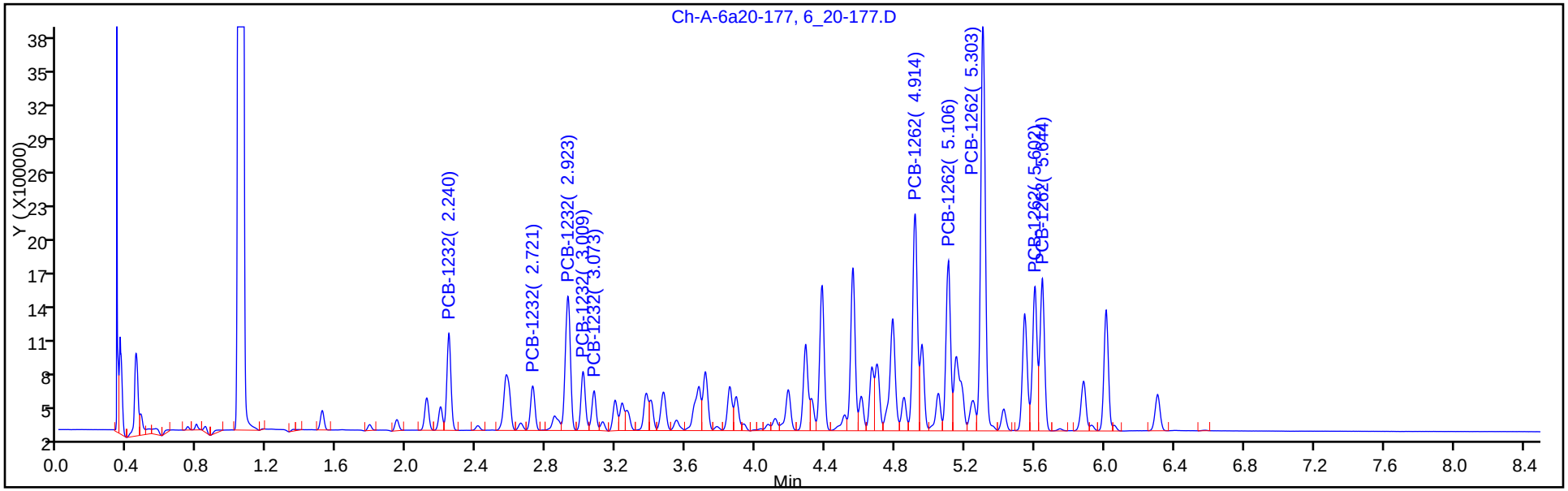
Report Date: 24-Feb-2017 10:37:12 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

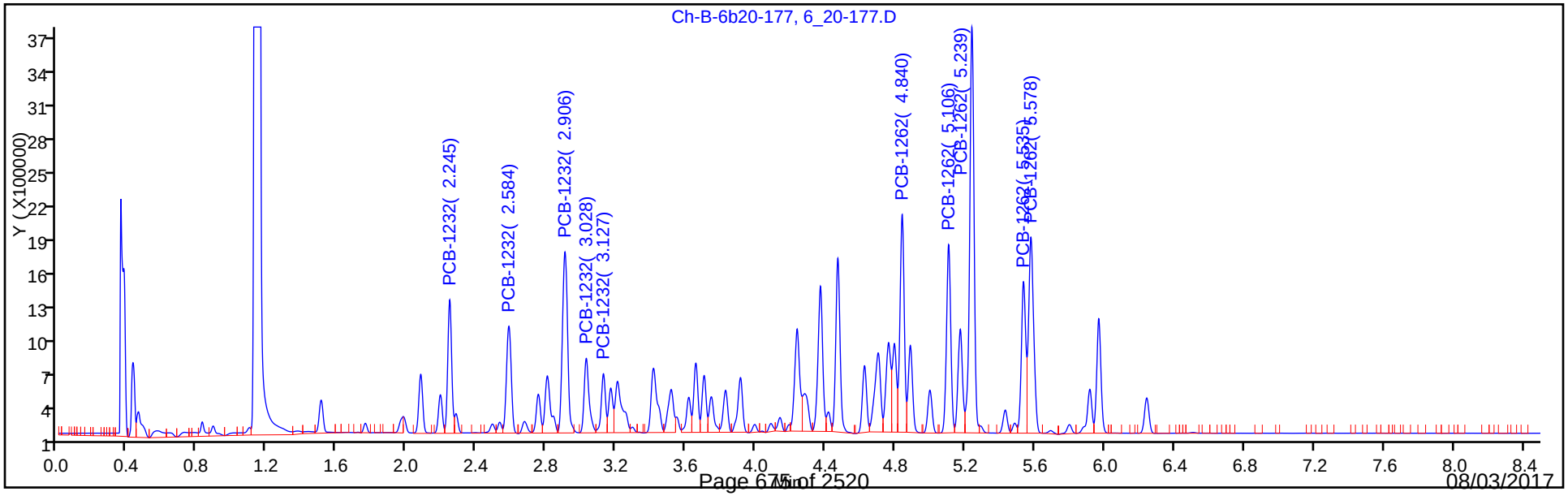
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-177.D

Injection Date:	23-Feb-2017 05:33:05	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 24-Feb-2017 10:37:12 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-177.D

Injection Date: 23-Feb-2017 05:33:05 Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

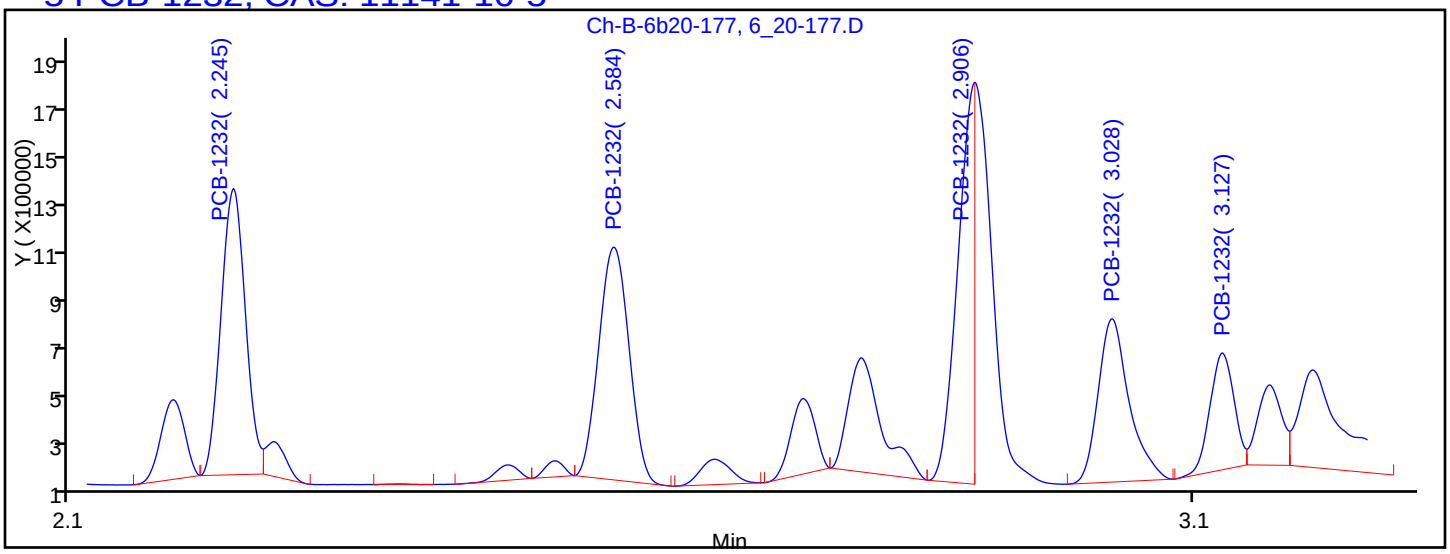
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

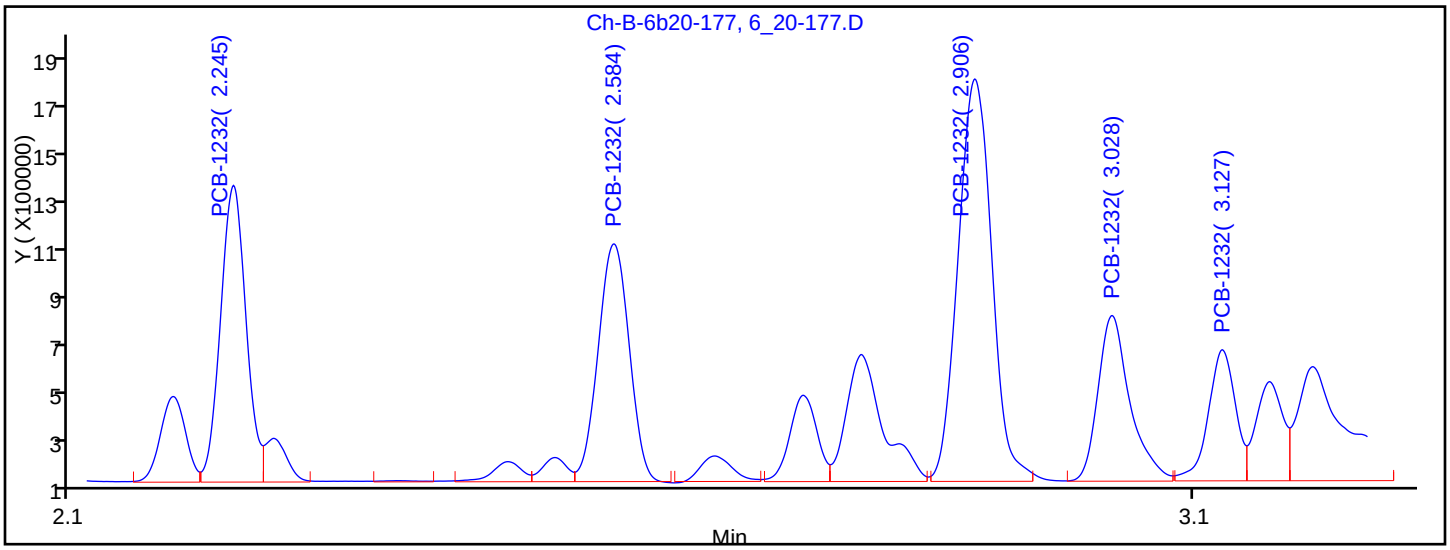
Column: Detector Ch-B-7b136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.245	Response = 1740865
2.584	Response = 1748775
2.906	Response = 1623641
3.028	Response = 1252078
3.127	Response = 702324



Manual Integration Results

2.245	Response = 1882645	M
2.584	Response = 1830879	M
2.906	Response = 3366050	M
3.028	Response = 1314649	M
3.127	Response = 888674	M

Reviewer: owenj, 23-Feb-2017 12:59:38

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-178.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Feb-2017 05:49:00 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:14 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 23-Feb-2017 13:06:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.046	1.046	0.000	7423429	0.5000	0.5000	
2	1.144	1.144	0.000	110248955	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.238	2.238	0.000	6384	0.0200	0.0198	
1	2.720	2.720	0.000	2584	0.0200	0.0199	M
1	2.922	2.922	0.000	10461	0.0200	0.0210	M
1	3.008	3.008	0.000	5478	0.0200	0.0200	M
1	3.073	3.073	0.000	2832	0.0200	0.0224	M
		Average of Peak Amounts =				0.0206	
2	2.244	2.244	0.000	103059	0.0200	0.0181	M
2	2.583	2.583	0.000	109816	0.0200	0.0184	M
2	2.906	2.906	0.000	224807	0.0200	0.0197	M
2	3.027	3.027	0.000	60963	0.0200	0.0233	M
2	3.127	3.127	0.000	50931	0.0200	0.0189	M
		Average of Peak Amounts =				0.0197	
						RPD = 4.75	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	4.913	4.913	0.000	15918	0.0200	0.0211	M
1	5.103	5.103	0.000	11305	0.0200	0.0203	M
1	5.303	5.303	0.000	25469	0.0200	0.0191	M
1	5.601	5.601	0.000	9961	0.0200	0.0205	M
1	5.642	5.642	0.000	9636	0.0200	0.0198	M
		Average of Peak Amounts =				0.0202	
2	4.839	4.839	0.000	179692	0.0200	0.0241	M
2	5.107	5.107	0.000	153101	0.0200	0.0240	M
2	5.239	5.239	0.000	300896	0.0200	0.0218	M
2	5.535	5.535	0.000	123221	0.0200	0.0236	M
2	5.578	5.578	0.000	170300	0.0200	0.0222	M
		Average of Peak Amounts =				0.0231	
						RPD = 13.67	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00005 Amount Added: 0.25 Units: mL

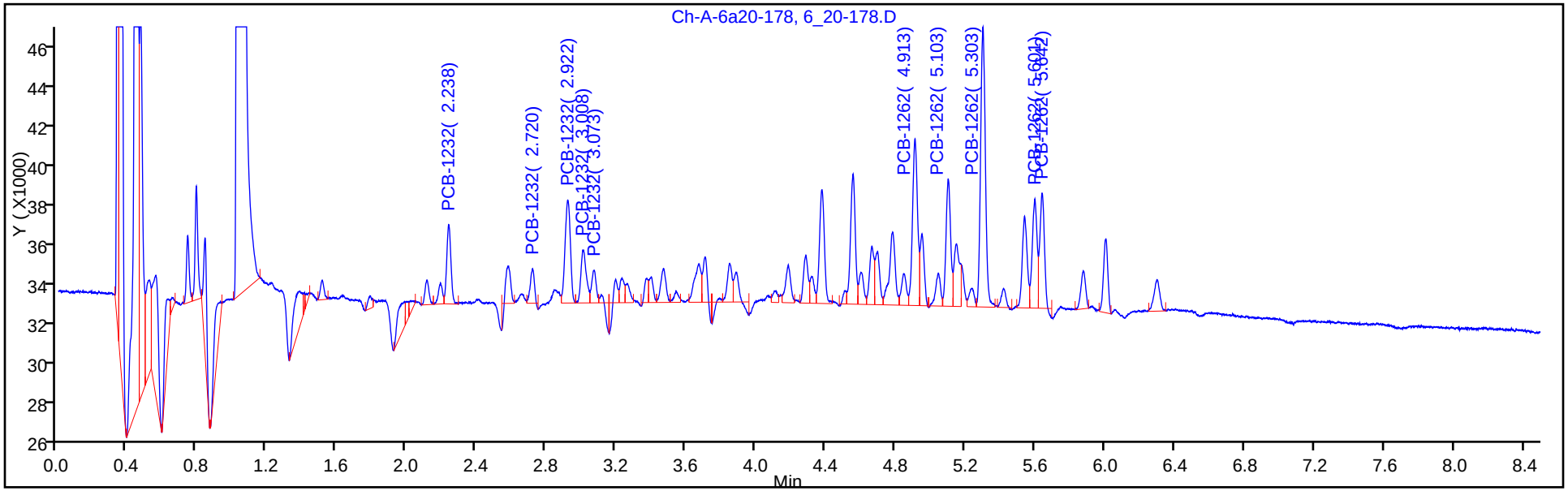
Report Date: 24-Feb-2017 10:37:15 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

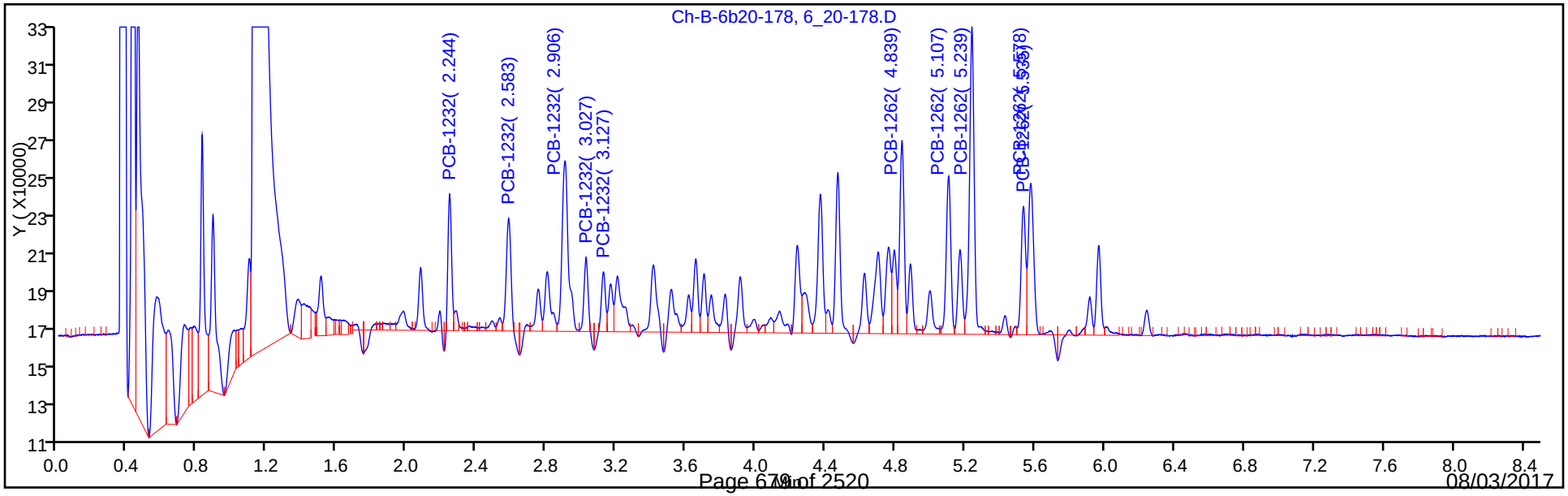
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-178.D

Injection Date:	23-Feb-2017 05:49:00	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 24-Feb-2017 10:37:15 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-178.D

Injection Date: 23-Feb-2017 05:49:00 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

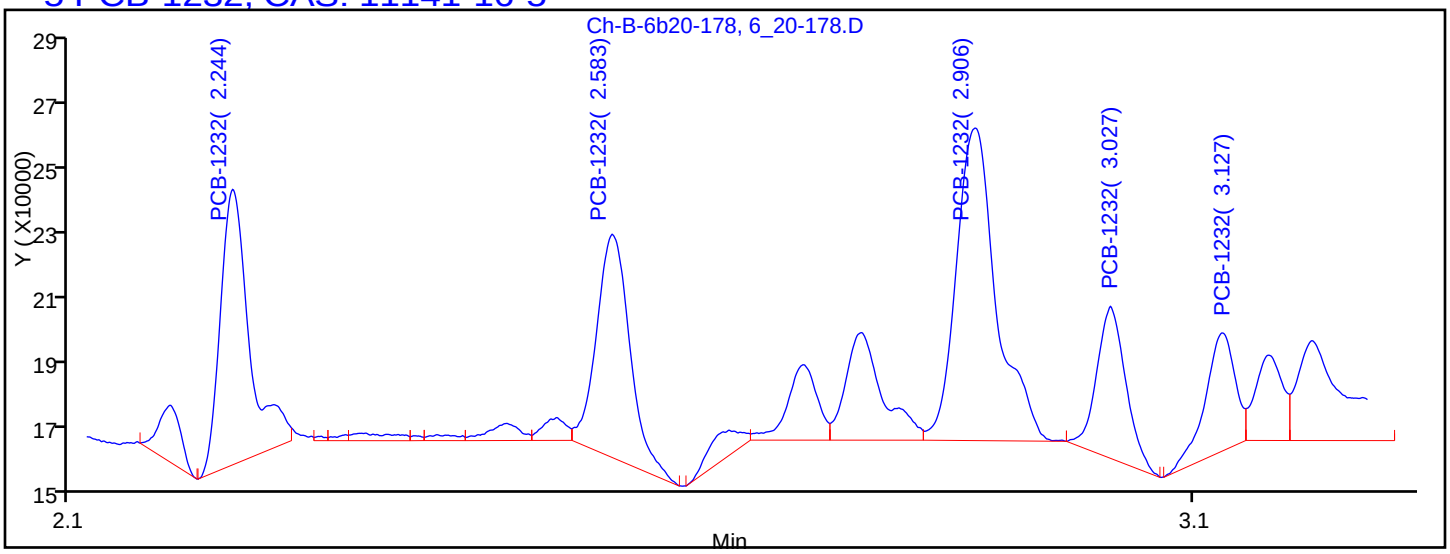
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

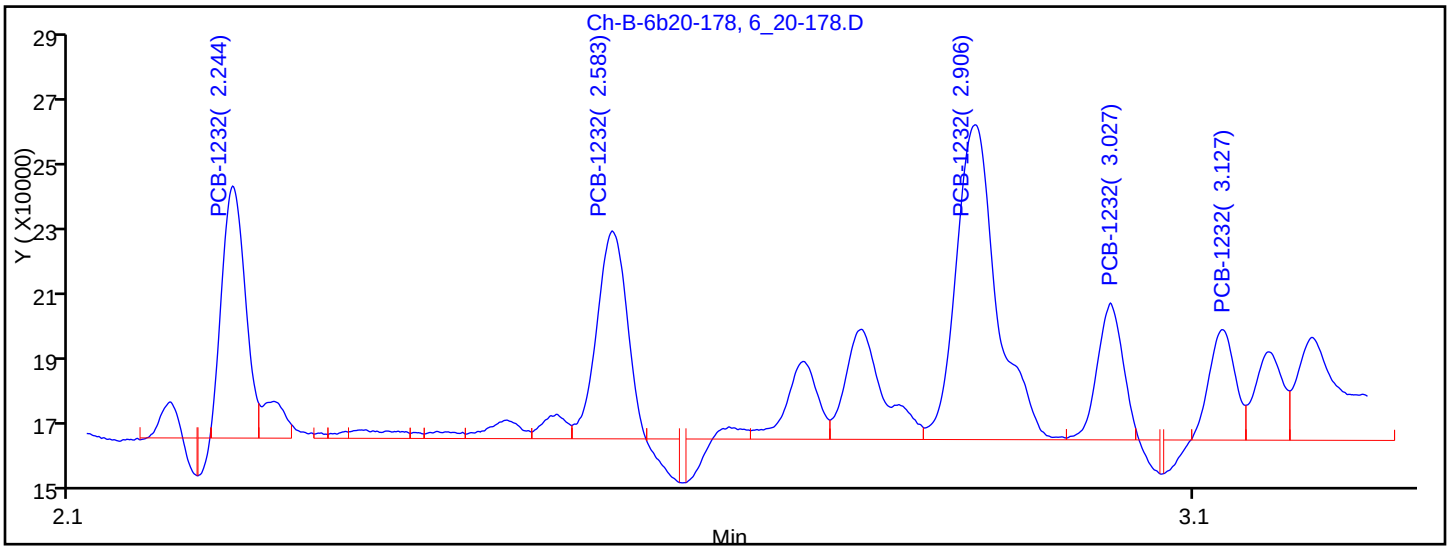
Column: Detector Ch-B-7b136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.244	Response = 139630
2.583	Response = 131134
2.906	Response = 220164
3.027	Response = 77545
3.127	Response = 62443



Manual Integration Results

2.244	Response = 103059	M
2.583	Response = 109816	M
2.906	Response = 224807	M
3.027	Response = 60963	M
3.127	Response = 50931	M

Reviewer: owenj, 23-Feb-2017 13:06:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 24-Feb-2017 10:37:15 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-178.D

Injection Date: 23-Feb-2017 05:49:00 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

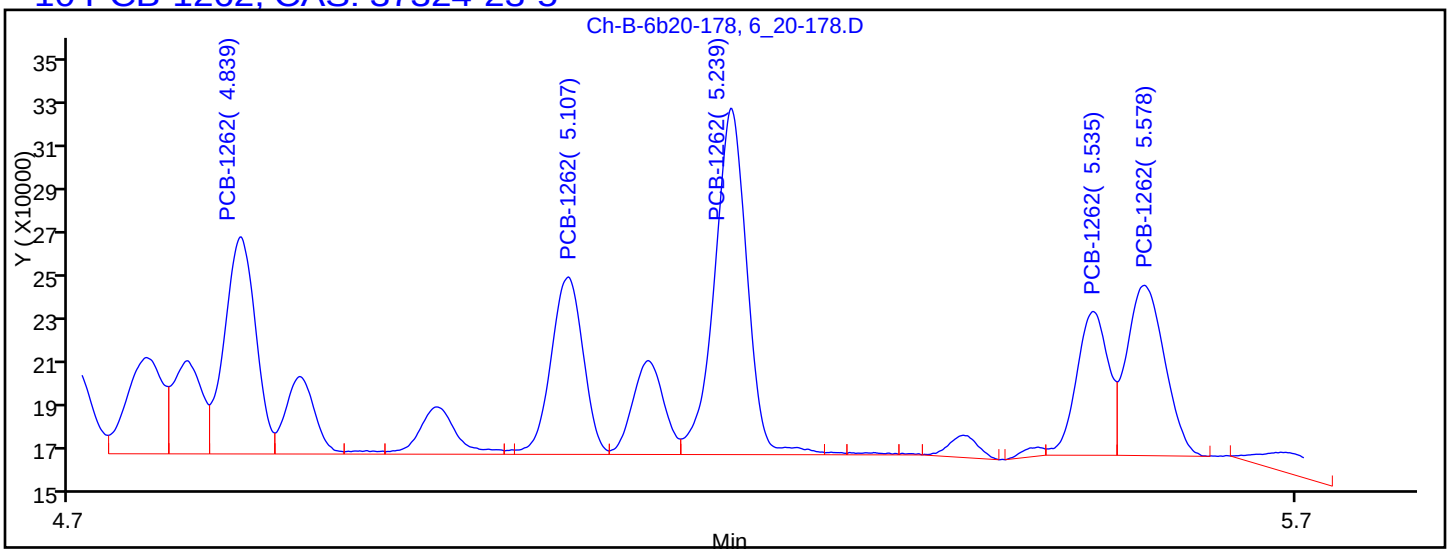
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

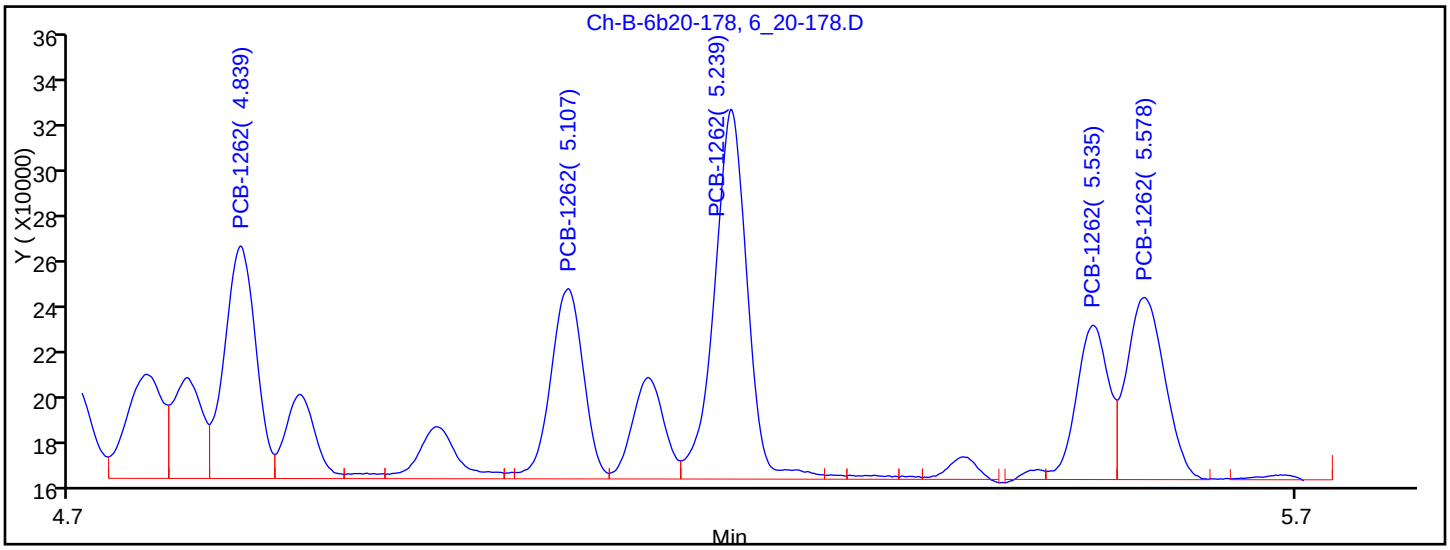
Column: Detector Ch-B-7b136

10 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.839	Response = 177199
5.107	Response = 149625
5.239	Response = 295697
5.535	Response = 121029
5.578	Response = 168502



Manual Integration Results

4.839	Response = 179692	M
5.107	Response = 153101	M
5.239	Response = 300896	M
5.535	Response = 123221	M
5.578	Response = 170300	M

Reviewer: owenj, 23-Feb-2017 13:06:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 06:20 Calibration End Date: 02/23/2017 06:52 Calibration ID: 29823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/26	6_20-182.D
Level 2	IC 480-345014/25	6_20-181.D
Level 3	IC 480-345014/24	6_20-180.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	0.0556	0.0596	0.0625			Lin1	0	0.0620							1.0000		0.9900
PCB-1242 Peak 2	0.0299	0.0215	0.0219			Lin1	0.0002	0.0217							1.0000		0.9900
PCB-1242 Peak 3	0.0198	0.0192	0.0198			Lin1	0	0.0197							1.0000		0.9900
PCB-1242 Peak 4	0.0219	0.0198	0.0207			Ave		0.0208				4.9		20.0			
PCB-1242 Peak 5	0.0197	0.0194	0.0203			Lin1	0	0.0202							1.0000		0.9900
PCB-1268 Peak 1	0.0907	0.0974	0.1049			Ave		0.0976				7.3		20.0			
PCB-1268 Peak 2	0.0823	0.0859	0.0953			Ave		0.0878				7.6		20.0			
PCB-1268 Peak 3	0.0664	0.0695	0.0764			Ave		0.0708				7.2		20.0			
PCB-1268 Peak 4	0.0227	0.0282	0.0305			Lin1	0	0.0302							0.9990		0.9900
PCB-1268 Peak 5	0.2025	0.2303	0.2562			Ave		0.2297				11.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 06:20 Calibration End Date: 02/23/2017 06:52 Calibration ID: 29823

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/26	6_20-182.D
Level 2	IC 480-345014/25	6_20-181.D
Level 3	IC 480-345014/24	6_20-180.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	16871	440486	1873013			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	9070	158561	655431			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	6013	141893	595051			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Ave	6629	146547	622289			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	5976	143379	609944			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Ave	27499	719545	3144519			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Ave	24955	634460	2857694			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Ave	20139	513473	2290526			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Lin1	6894	208635	913481			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Ave	61406	1701324	7683748			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-180.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Feb-2017 06:20:56 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:25 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.046	1.046	0.000	7497535	0.5000	0.5000	
2	1.145	1.144	0.001	110938763	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							
1	2.923	2.923	0.001	1873013	2.00	2.02	
1	3.009	3.010	-0.001	655431	2.00	2.01	
1	3.471	3.470	0.001	595051	2.00	2.01	
1	3.708	3.708	0.000	622289	2.00	1.99	
1	3.852	3.850	0.002	609944	2.00	2.02	
		Average of Peak Amounts =				2.01	
2	2.906	2.906	0.000	22921469	2.00	2.00	
2	3.028	3.028	0.000	7968352	2.00	1.97	
2	3.413	3.413	0.000	9638288	2.00	1.98	
2	3.656	3.656	0.000	7684620	2.00	1.99	
2	3.912	3.911	0.001	7108582	2.00	1.99	
		Average of Peak Amounts =				1.99	
						RPD = 1.17	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							
1	5.600	5.601	-0.001	3144519	2.00	2.15	
1	5.641	5.642	-0.001	2857694	2.00	2.17	
1	5.866	5.866	0.000	2290526	2.00	2.16	
1	6.008	6.007	0.001	913481	2.00	2.03	
1	6.303	6.303	-0.001	7683748	2.00	2.23	
		Average of Peak Amounts =				2.15	
2	5.535	5.533	0.002	27543232	2.00	2.10	
2	5.573	5.573	0.001	25165494	2.00	2.07	
2	5.798	5.798	0.000	19121533	2.00	1.97	
2	5.966	5.966	0.000	7671381	2.00	1.99	
2	6.243	6.243	0.001	65873885	2.00	2.27	
		Average of Peak Amounts =				2.08	
						RPD = 3.05	

Reagents:

42-68w/IS@2.0_00005 Amount Added: 0.25 Units: mL

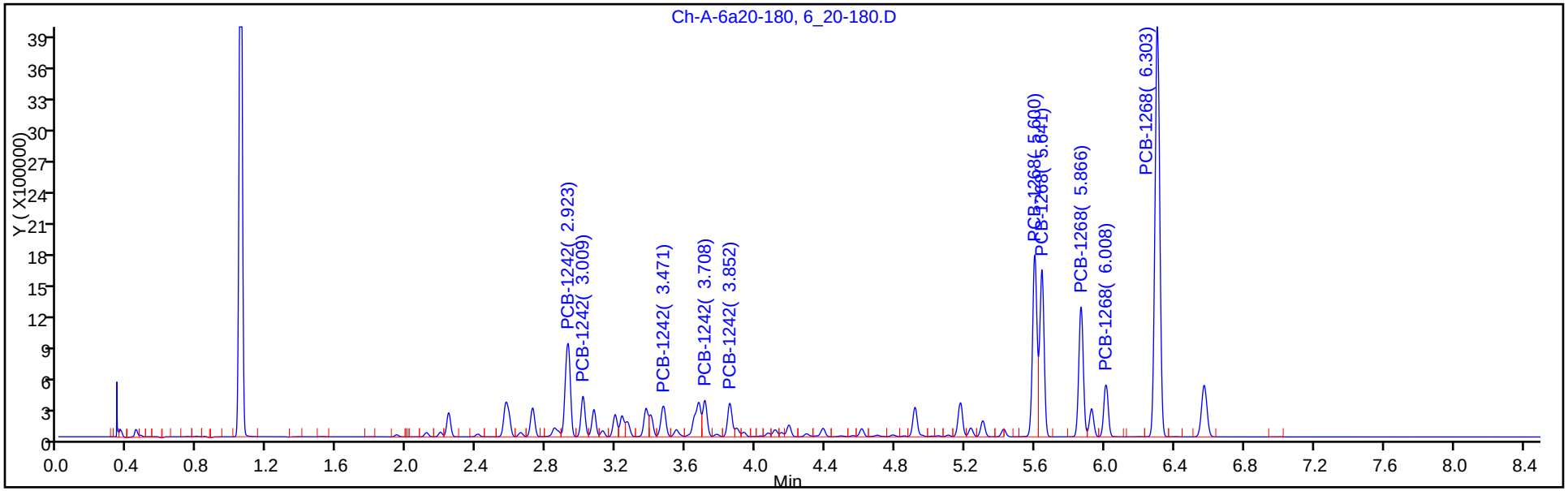
Report Date: 24-Feb-2017 10:37:25 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

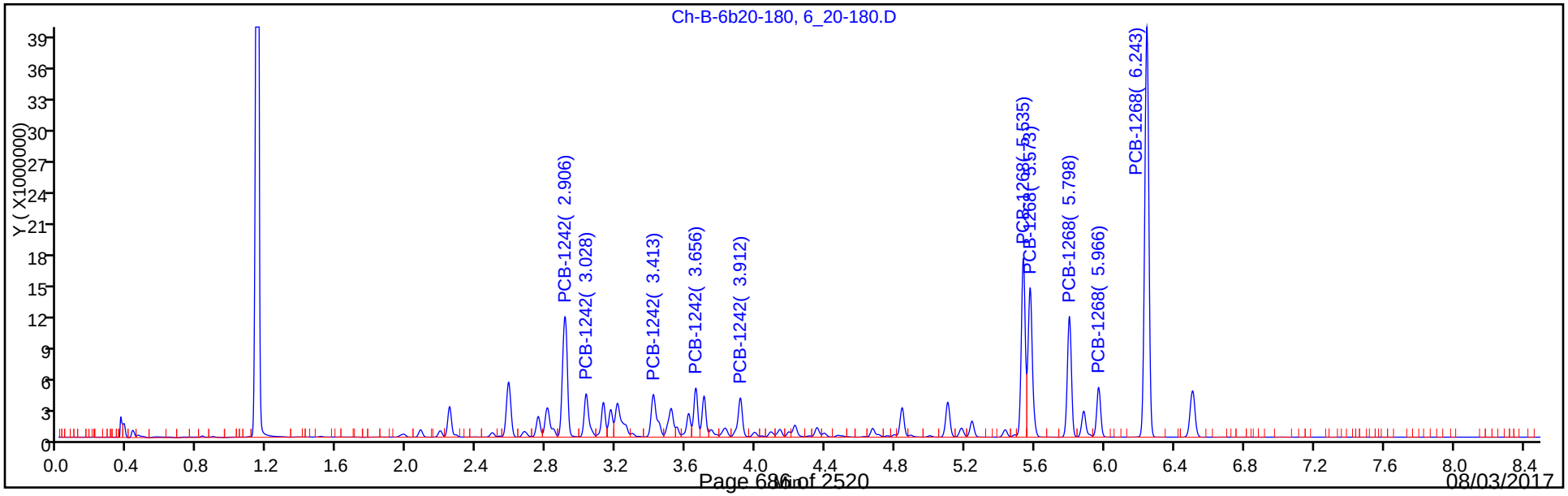
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-180.D

Injection Date:	23-Feb-2017 06:20:56	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-181.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Feb-2017 06:36:41 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:27 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.046	0.002	7388710	0.5000	0.5000	
2	1.146	1.144	0.002	110200089	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							
1	2.924	2.923	0.002	440486	0.5000	0.4831	
1	3.010	3.010	0.000	158561	0.5000	0.4883	
1	3.472	3.470	0.002	141893	0.5000	0.4872	
1	3.709	3.708	0.001	146547	0.5000	0.4764	
1	3.852	3.850	0.002	143379	0.5000	0.4820	
		Average of Peak Amounts =				0.4834	
2	2.907	2.906	0.001	5736014	0.5000	0.4960	
2	3.028	3.028	0.000	2177018	0.5000	0.5339	
2	3.413	3.413	0.000	2577866	0.5000	0.5206	
2	3.657	3.656	0.001	1961304	0.5000	0.5065	
2	3.912	3.911	0.001	1843882	0.5000	0.5109	
		Average of Peak Amounts =				0.5136	
						RPD = 6.05	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							
1	5.600	5.601	-0.001	719545	0.5000	0.4987	
1	5.641	5.642	-0.001	634460	0.5000	0.4889	
1	5.866	5.866	0.000	513473	0.5000	0.4910	
1	6.009	6.007	0.002	208635	0.5000	0.4738	
1	6.304	6.303	0.001	1701324	0.5000	0.5013	
		Average of Peak Amounts =				0.4907	
2	5.534	5.533	0.001	6002728	0.5000	0.4600	
2	5.573	5.573	0.001	5566116	0.5000	0.4619	
2	5.798	5.798	0.000	4273292	0.5000	0.4443	
2	5.967	5.966	0.001	1798031	0.5000	0.4697	
2	6.243	6.243	0.000	13663530	0.5000	0.4749	
		Average of Peak Amounts =				0.4622	
						RPD = 6.00	

Reagents:

42-68w/IS@0.5_00008 Amount Added: 0.25 Units: mL

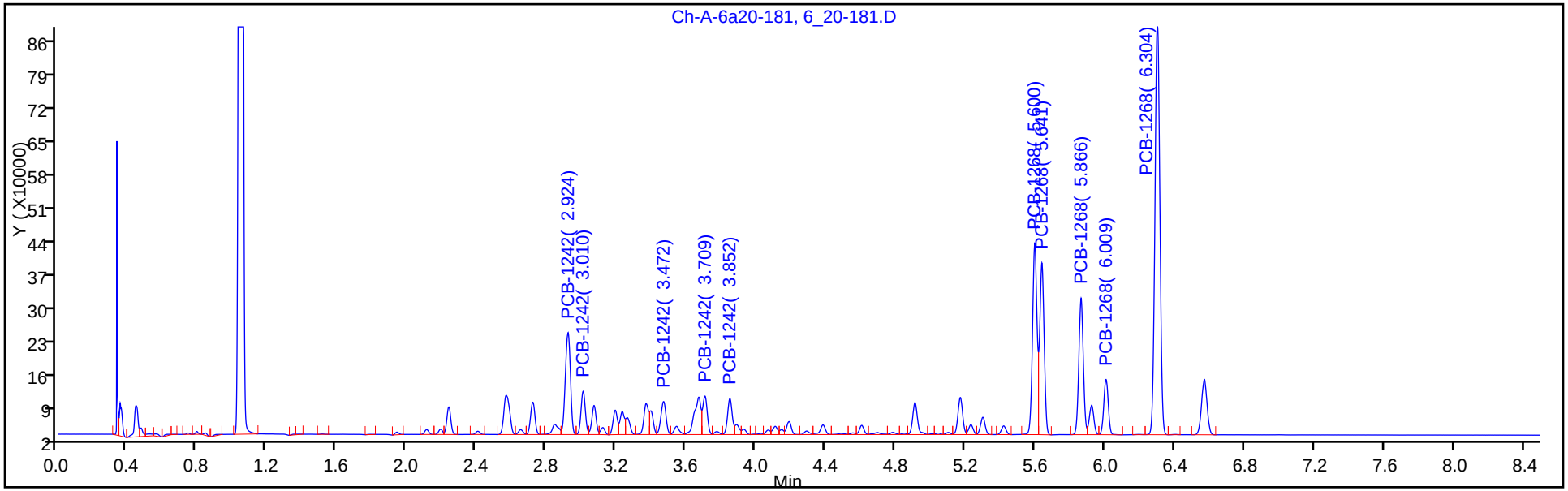
Report Date: 24-Feb-2017 10:37:28 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

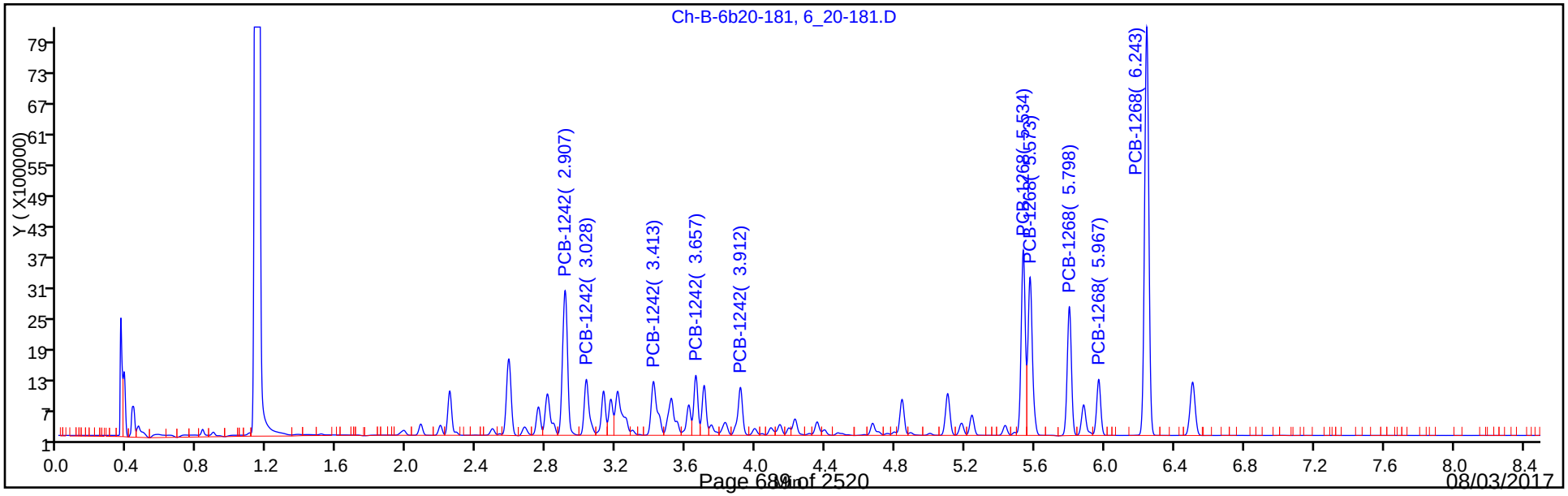
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-181.D

Injection Date:	23-Feb-2017 06:36:41	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-182.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Feb-2017 06:52:44 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:31 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	7580318	0.5000	0.5000	
2	1.146	1.146	0.000	113067294	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							
1	2.923	2.923	0.000	16871	0.0200	0.0205	
1	3.010	3.010	0.000	9070	0.0200	0.0204	
1	3.470	3.470	0.000	6013	0.0200	0.0204	
1	3.708	3.708	0.000	6629	0.0200	0.0210	
1	3.850	3.850	0.000	5976	0.0200	0.0205	
		Average of Peak Amounts =				0.0206	
2	2.906	2.906	0.000	370206	0.0200	0.0201	
2	3.028	3.028	0.000	118364	0.0200	0.0190	
2	3.413	3.413	0.000	180018	0.0200	0.0194	
2	3.656	3.656	0.000	107827	0.0200	0.0198	
2	3.911	3.911	0.000	113507	0.0200	0.0197	
		Average of Peak Amounts =				0.0196	
						RPD = 4.84	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							
1	5.601	5.601	0.000	27499	0.0200	0.0186	
1	5.642	5.642	0.000	24955	0.0200	0.0187	
1	5.866	5.866	0.000	20139	0.0200	0.0188	
1	6.007	6.007	0.000	6894	0.0200	0.0208	
1	6.303	6.303	0.000	61406	0.0200	0.0176	
		Average of Peak Amounts =				0.0189	
2	5.533	5.533	0.000	276222	0.0200	0.0206	
2	5.573	5.573	0.000	257000	0.0200	0.0208	
2	5.798	5.798	0.000	221831	0.0200	0.0225	
2	5.966	5.966	0.000	83696	0.0200	0.0213	
2	6.243	6.243	0.000	538976	0.0200	0.0183	
		Average of Peak Amounts =				0.0207	
						RPD = 9.03	

Reagents:

42-68w/IS@.02_00005 Amount Added: 0.25 Units: mL

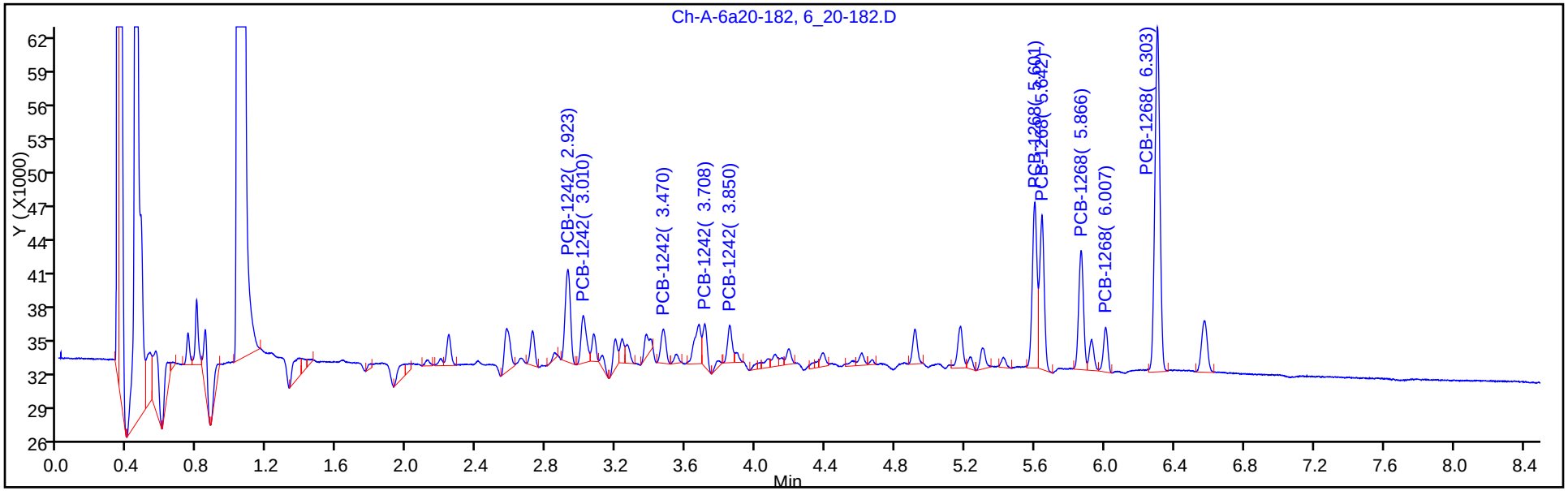
Report Date: 24-Feb-2017 10:37:31 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

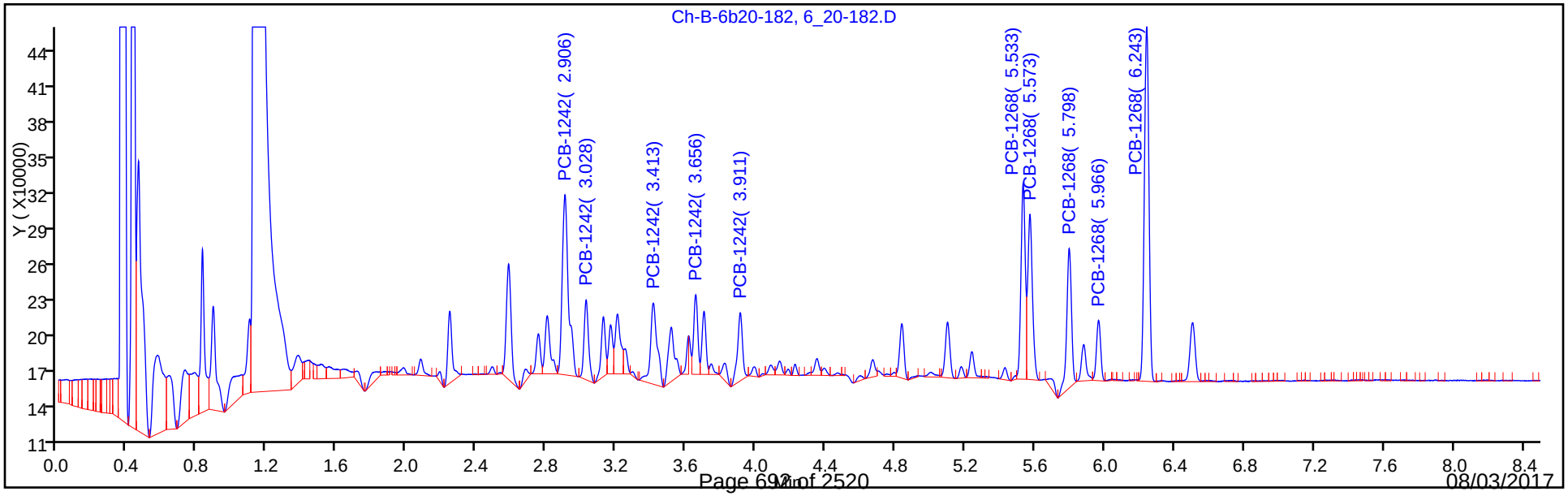
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-182.D

Injection Date:	23-Feb-2017 06:52:44	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 06:20 Calibration End Date: 02/23/2017 06:52 Calibration ID: 29824

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/26	6_20-182.D
Level 2	IC 480-345014/25	6_20-181.D
Level 3	IC 480-345014/24	6_20-180.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	0.0819	0.0521	0.0517			Lin1	0.0006	0.0513							1.0000		0.9900
PCB-1242 Peak 2	0.0262	0.0198	0.0180			Lin1	0.0002	0.0182							0.9990		0.9900
PCB-1242 Peak 3	0.0398	0.0234	0.0217			Lin1	0.0004	0.0217							1.0000		0.9900
PCB-1242 Peak 4	0.0238	0.0178	0.0173			Lin1	0.0001	0.0173							1.0000		0.9900
PCB-1242 Peak 5	0.0251	0.0167	0.0160			Lin1	0.0002	0.0160							1.0000		0.9900
PCB-1268 Peak 1	0.0611	0.0545	0.0621			Ave		0.0592				7.0		20.0			
PCB-1268 Peak 2	0.0568	0.0505	0.0567			Ave		0.0547				6.6		20.0			
PCB-1268 Peak 3	0.0490	0.0388	0.0431			Ave		0.0436				11.8		20.0			
PCB-1268 Peak 4	0.0185	0.0163	0.0173			Ave		0.0174				6.3		20.0			
PCB-1268 Peak 5	0.1192	0.1240	0.1484			Ave		0.1305				12.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 06:20 Calibration End Date: 02/23/2017 06:52 Calibration ID: 29824

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/26	6_20-182.D
Level 2	IC 480-345014/25	6_20-181.D
Level 3	IC 480-345014/24	6_20-180.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	370206	5736014	22921469			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	118364	2177018	7968352			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	180018	2577866	9638288			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	107827	1961304	7684620			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	113507	1843882	7108582			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Ave	276222	6002728	27543232			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Ave	257000	5566116	25165494			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Ave	221831	4273292	19121533			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Ave	83696	1798031	7671381			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Ave	538976	13663530	65873885			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-180.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Feb-2017 06:20:56 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:25 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.046	1.046	0.000	7497535	0.5000	0.5000	
2	1.145	1.144	0.001	110938763	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							
1	2.923	2.923	0.001	1873013	2.00	2.02	
1	3.009	3.010	-0.001	655431	2.00	2.01	
1	3.471	3.470	0.001	595051	2.00	2.01	
1	3.708	3.708	0.000	622289	2.00	1.99	
1	3.852	3.850	0.002	609944	2.00	2.02	
		Average of Peak Amounts =				2.01	
2	2.906	2.906	0.000	22921469	2.00	2.00	
2	3.028	3.028	0.000	7968352	2.00	1.97	
2	3.413	3.413	0.000	9638288	2.00	1.98	
2	3.656	3.656	0.000	7684620	2.00	1.99	
2	3.912	3.911	0.001	7108582	2.00	1.99	
		Average of Peak Amounts =				1.99	
						RPD = 1.17	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							
1	5.600	5.601	-0.001	3144519	2.00	2.15	
1	5.641	5.642	-0.001	2857694	2.00	2.17	
1	5.866	5.866	0.000	2290526	2.00	2.16	
1	6.008	6.007	0.001	913481	2.00	2.03	
1	6.303	6.303	-0.001	7683748	2.00	2.23	
		Average of Peak Amounts =				2.15	
2	5.535	5.533	0.002	27543232	2.00	2.10	
2	5.573	5.573	0.001	25165494	2.00	2.07	
2	5.798	5.798	0.000	19121533	2.00	1.97	
2	5.966	5.966	0.000	7671381	2.00	1.99	
2	6.243	6.243	0.001	65873885	2.00	2.27	
		Average of Peak Amounts =				2.08	
						RPD = 3.05	

Reagents:

42-68w/IS@2.0_00005 Amount Added: 0.25 Units: mL

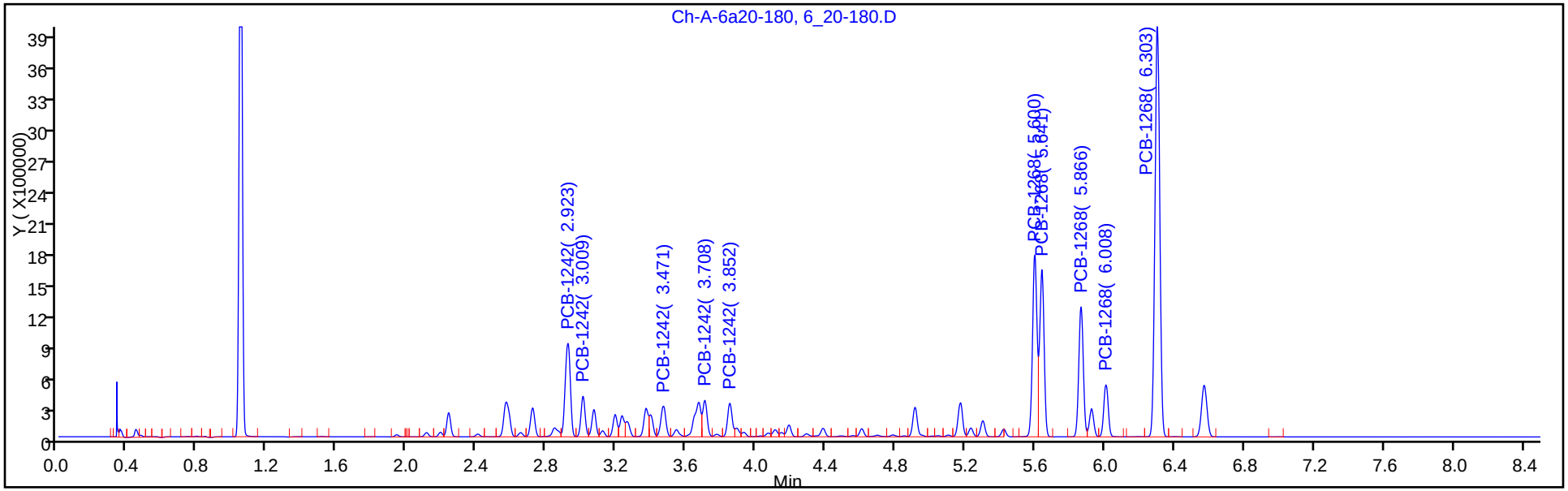
Report Date: 24-Feb-2017 10:37:25 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

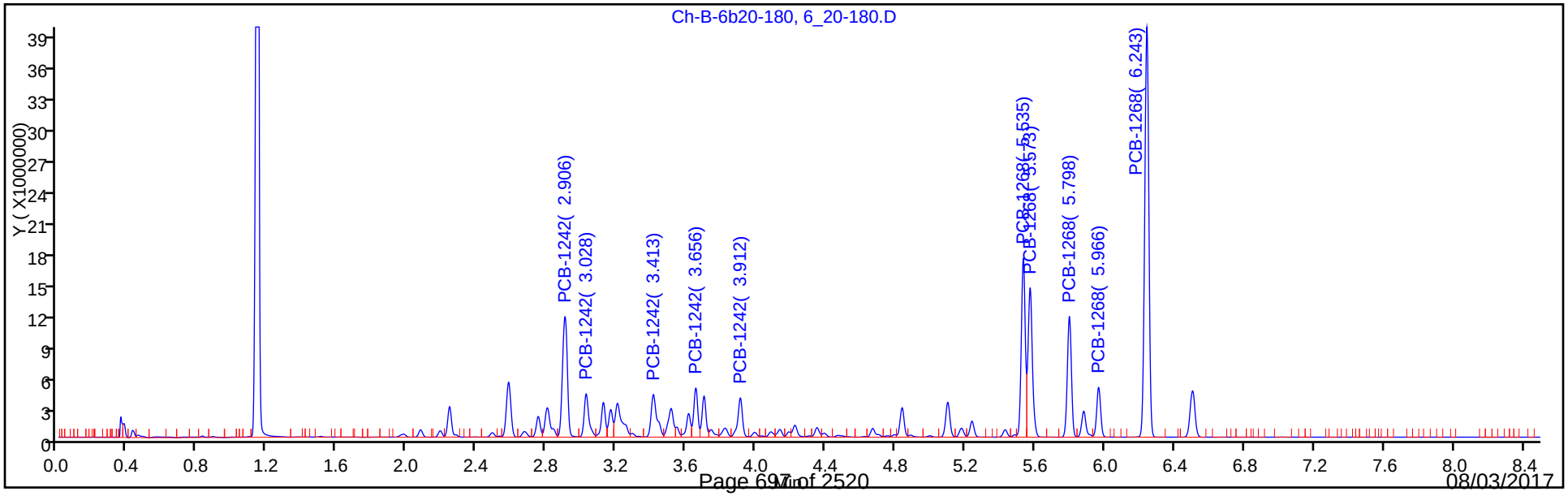
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-180.D

Injection Date:	23-Feb-2017 06:20:56	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-181.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Feb-2017 06:36:41 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:27 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.046	0.002	7388710	0.5000	0.5000	
2	1.146	1.144	0.002	110200089	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							
1	2.924	2.923	0.002	440486	0.5000	0.4831	
1	3.010	3.010	0.000	158561	0.5000	0.4883	
1	3.472	3.470	0.002	141893	0.5000	0.4872	
1	3.709	3.708	0.001	146547	0.5000	0.4764	
1	3.852	3.850	0.002	143379	0.5000	0.4820	
		Average of Peak Amounts =				0.4834	
2	2.907	2.906	0.001	5736014	0.5000	0.4960	
2	3.028	3.028	0.000	2177018	0.5000	0.5339	
2	3.413	3.413	0.000	2577866	0.5000	0.5206	
2	3.657	3.656	0.001	1961304	0.5000	0.5065	
2	3.912	3.911	0.001	1843882	0.5000	0.5109	
		Average of Peak Amounts =				0.5136	
						RPD = 6.05	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							
1	5.600	5.601	-0.001	719545	0.5000	0.4987	
1	5.641	5.642	-0.001	634460	0.5000	0.4889	
1	5.866	5.866	0.000	513473	0.5000	0.4910	
1	6.009	6.007	0.002	208635	0.5000	0.4738	
1	6.304	6.303	0.001	1701324	0.5000	0.5013	
		Average of Peak Amounts =				0.4907	
2	5.534	5.533	0.001	6002728	0.5000	0.4600	
2	5.573	5.573	0.001	5566116	0.5000	0.4619	
2	5.798	5.798	0.000	4273292	0.5000	0.4443	
2	5.967	5.966	0.001	1798031	0.5000	0.4697	
2	6.243	6.243	0.000	13663530	0.5000	0.4749	
		Average of Peak Amounts =				0.4622	
						RPD = 6.00	

Reagents:

42-68w/IS@0.5_00008 Amount Added: 0.25 Units: mL

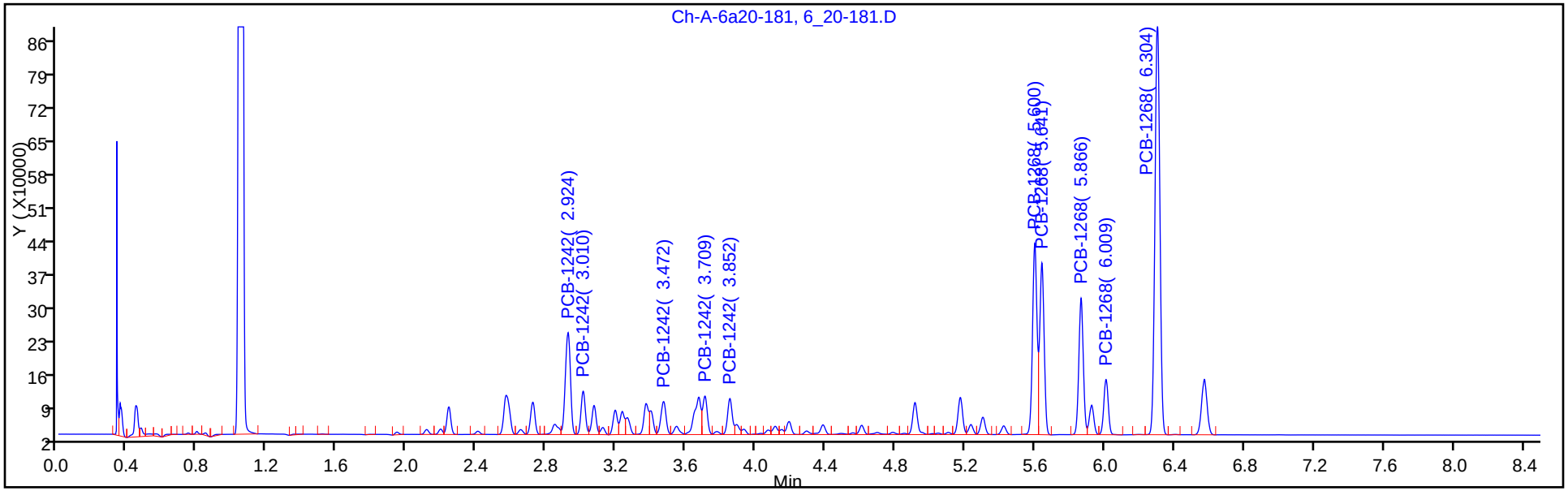
Report Date: 24-Feb-2017 10:37:28 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

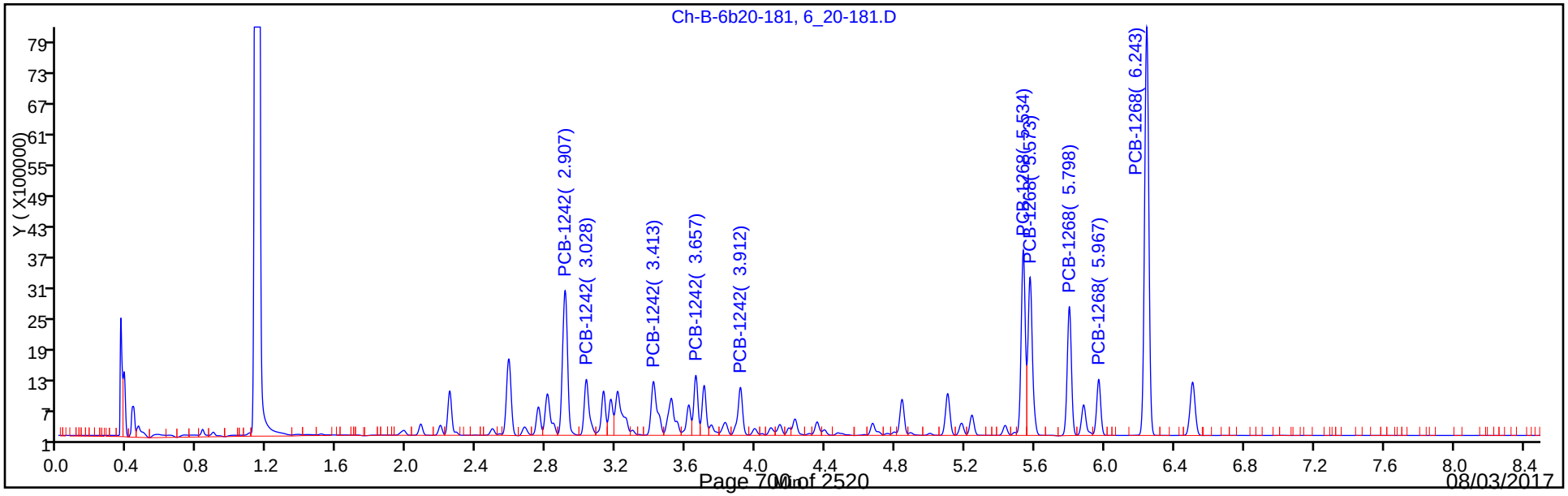
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-181.D

Injection Date:	23-Feb-2017 06:36:41	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-182.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Feb-2017 06:52:44 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:31 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.048	1.048	0.000	7580318	0.5000	0.5000	
2	1.146	1.146	0.000	113067294	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							
1	2.923	2.923	0.000	16871	0.0200	0.0205	
1	3.010	3.010	0.000	9070	0.0200	0.0204	
1	3.470	3.470	0.000	6013	0.0200	0.0204	
1	3.708	3.708	0.000	6629	0.0200	0.0210	
1	3.850	3.850	0.000	5976	0.0200	0.0205	
		Average of Peak Amounts =				0.0206	
2	2.906	2.906	0.000	370206	0.0200	0.0201	
2	3.028	3.028	0.000	118364	0.0200	0.0190	
2	3.413	3.413	0.000	180018	0.0200	0.0194	
2	3.656	3.656	0.000	107827	0.0200	0.0198	
2	3.911	3.911	0.000	113507	0.0200	0.0197	
		Average of Peak Amounts =				0.0196	
						RPD = 4.84	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							
1	5.601	5.601	0.000	27499	0.0200	0.0186	
1	5.642	5.642	0.000	24955	0.0200	0.0187	
1	5.866	5.866	0.000	20139	0.0200	0.0188	
1	6.007	6.007	0.000	6894	0.0200	0.0208	
1	6.303	6.303	0.000	61406	0.0200	0.0176	
		Average of Peak Amounts =				0.0189	
2	5.533	5.533	0.000	276222	0.0200	0.0206	
2	5.573	5.573	0.000	257000	0.0200	0.0208	
2	5.798	5.798	0.000	221831	0.0200	0.0225	
2	5.966	5.966	0.000	83696	0.0200	0.0213	
2	6.243	6.243	0.000	538976	0.0200	0.0183	
		Average of Peak Amounts =				0.0207	
						RPD = 9.03	

Reagents:

42-68w/IS@.02_00005 Amount Added: 0.25 Units: mL

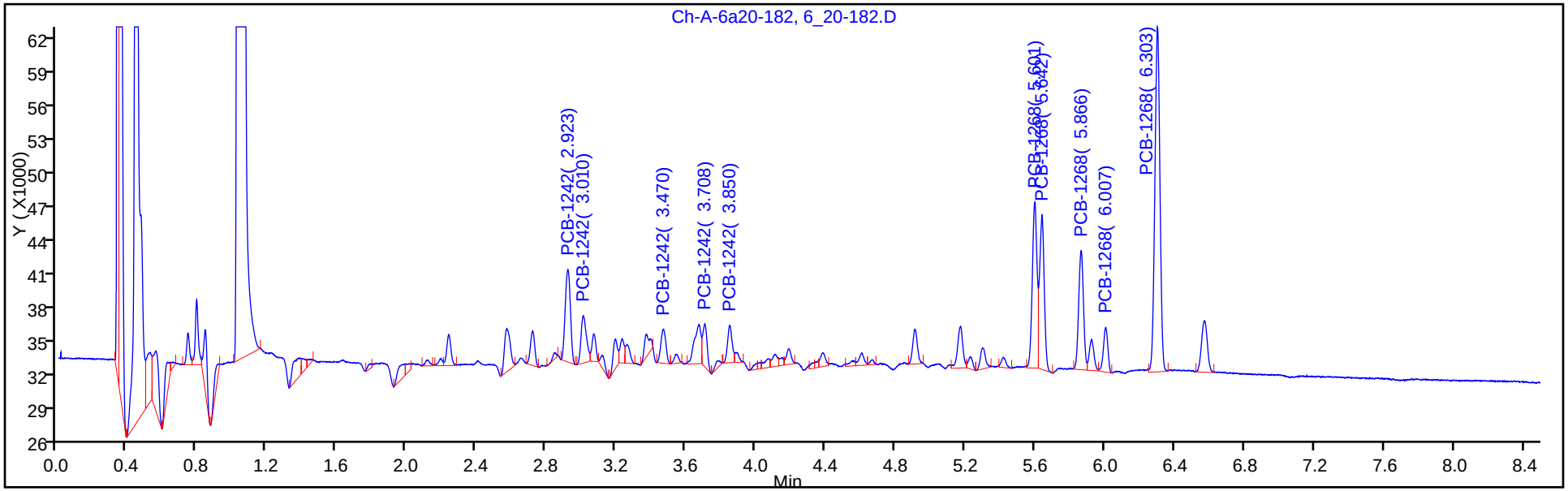
Report Date: 24-Feb-2017 10:37:31 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

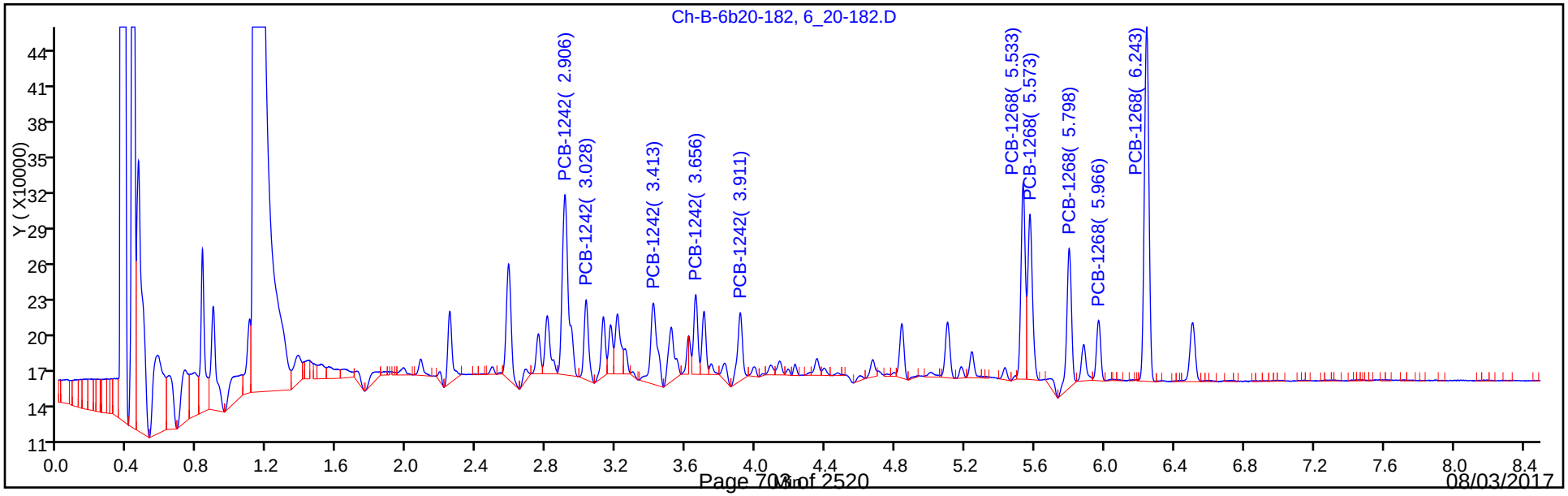
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-182.D

Injection Date:	23-Feb-2017 06:52:44	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	26
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 07:24 Calibration End Date: 02/23/2017 07:56 Calibration ID: 29829

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/30	6_20-186.D
Level 2	IC 480-345014/29	6_20-185.D
Level 3	IC 480-345014/28	6_20-184.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	0.0233	0.0221	0.0238			Lin1	0	0.0235							0.9990		0.9900
PCB-1248 Peak 2	0.0345	0.0291	0.0314			Ave		0.0317				8.5		20.0			
PCB-1248 Peak 3	0.0559	0.0483	0.0523			Ave		0.0522				7.2		20.0			
PCB-1248 Peak 4	0.0342	0.0348	0.0389			Ave		0.0360				7.1		20.0			
PCB-1248 Peak 5	0.0357	0.0300	0.0327			Ave		0.0328				8.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 07:24 Calibration End Date: 02/23/2017 07:56 Calibration ID: 29829

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/30	6_20-186.D
Level 2	IC 480-345014/29	6_20-185.D
Level 3	IC 480-345014/28	6_20-184.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	6942	151414	687445			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Ave	10250	199120	906996			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Ave	16615	330712	1509214			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Ave	10176	238478	1123528			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Ave	10614	205038	943650			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-184.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Feb-2017 07:24:31 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:39 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.048	-0.001	7215325	0.5000	0.5000	
2	1.145	1.146	-0.001	105299391	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							
1	3.193	3.196	-0.003	687445	2.00	2.03	
1	3.469	3.470	-0.001	906996	2.00	1.99	
1	3.672	3.672	0.000	1509214	2.00	2.01	
1	3.708	3.708	0.000	1123528	2.00	2.16	
1	3.850	3.851	-0.001	943650	2.00	2.00	
		Average of Peak Amounts =				2.04	
2	3.168	3.168	0.000	7974841	2.00	2.00	
2	3.413	3.410	0.002	13155803	2.00	1.99	
2	3.657	3.656	0.001	13261751	2.00	1.81	
2	3.703	3.703	0.001	9905146	2.00	1.82	
2	3.912	3.910	0.002	11552581	2.00	2.01	
		Average of Peak Amounts =				1.93	
						RPD = 5.51	

Reagents:

1248w/IS@ 2.0_00005 Amount Added: 0.25 Units: mL

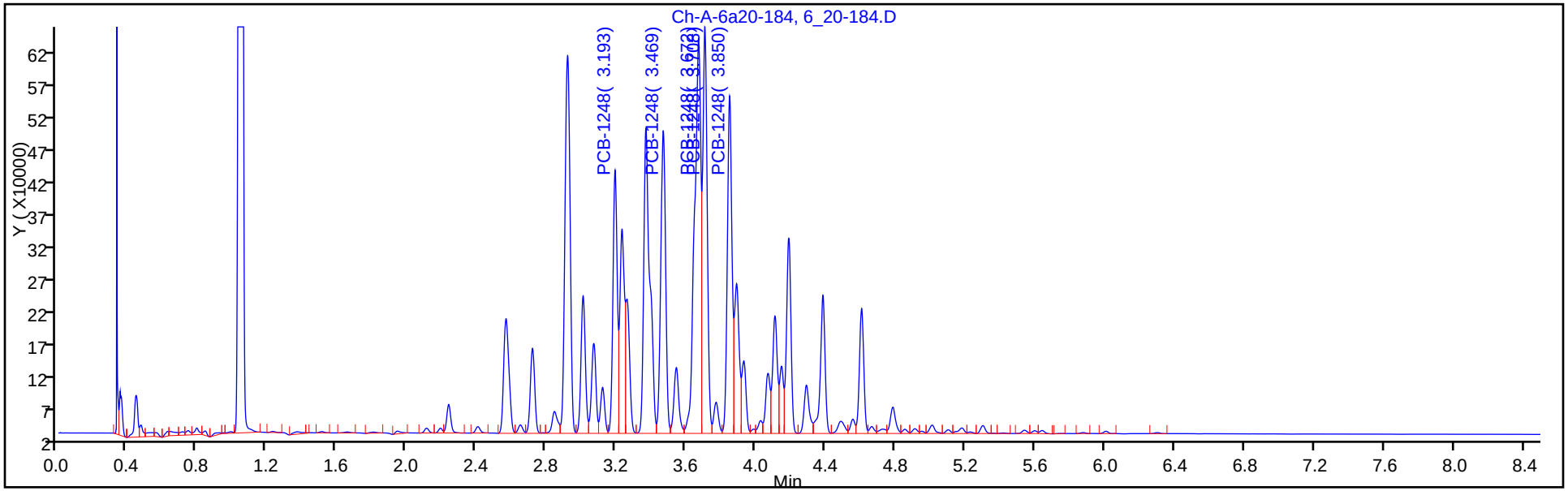
Report Date: 24-Feb-2017 10:37:40 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

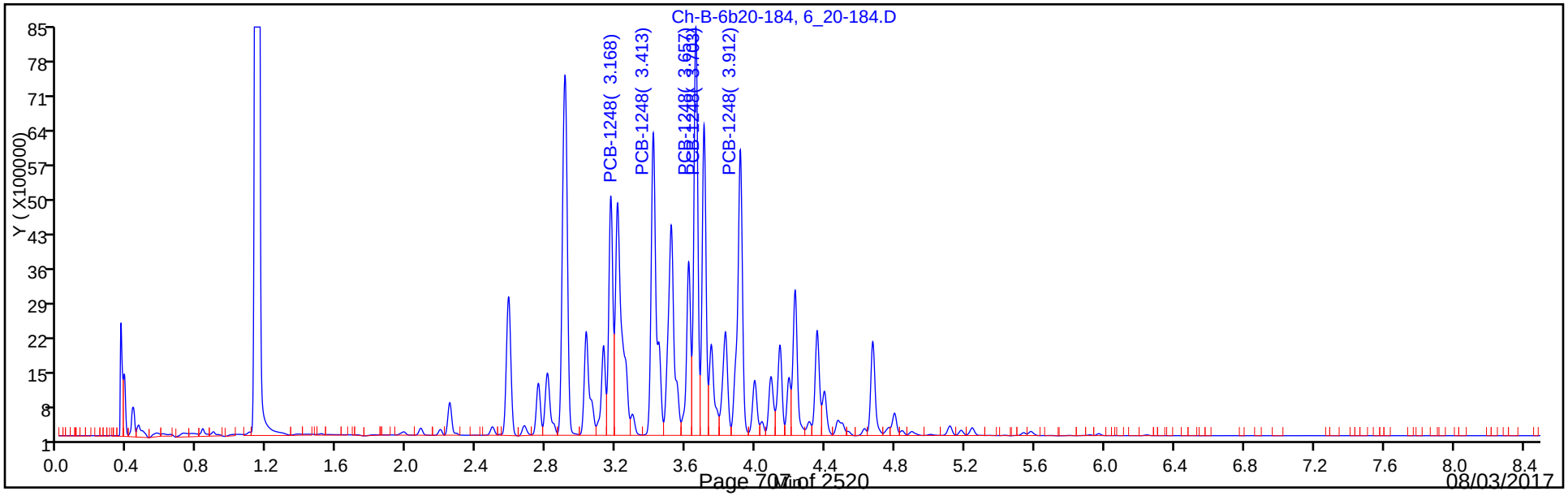
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-184.D

Injection Date:	23-Feb-2017 07:24:31	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-185.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Feb-2017 07:40:26 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:43 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.045	1.048	-0.003	6844669	0.5000	0.5000	
2	1.142	1.146	-0.004	99572873	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							
1	3.193	3.196	-0.003	151414	0.5000	0.4715	
1	3.469	3.470	-0.001	199120	0.5000	0.4595	
1	3.672	3.672	0.000	330712	0.5000	0.4632	
1	3.708	3.708	0.000	238478	0.5000	0.4840	
1	3.850	3.851	-0.001	205038	0.5000	0.4570	
		Average of Peak Amounts =				0.4670	
2	3.168	3.168	0.000	1935836	0.5000	0.5038	
2	3.412	3.410	0.002	3197779	0.5000	0.5066	
2	3.656	3.656	0.000	3033980	0.5000	0.4377	
2	3.703	3.703	0.001	2286462	0.5000	0.4442	
2	3.912	3.910	0.002	2669544	0.5000	0.4879	
		Average of Peak Amounts =				0.4761	
						RPD = 1.91	

Reagents:

1248w/IS@ 0.5_00008 Amount Added: 0.25 Units: mL

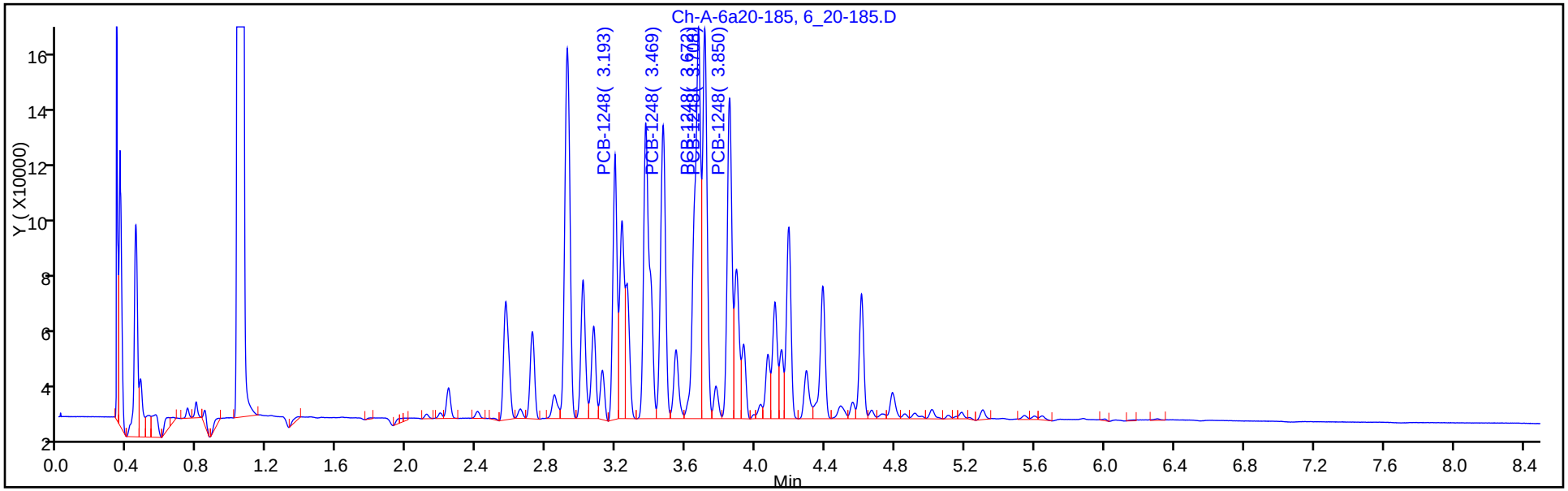
Report Date: 24-Feb-2017 10:37:43 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

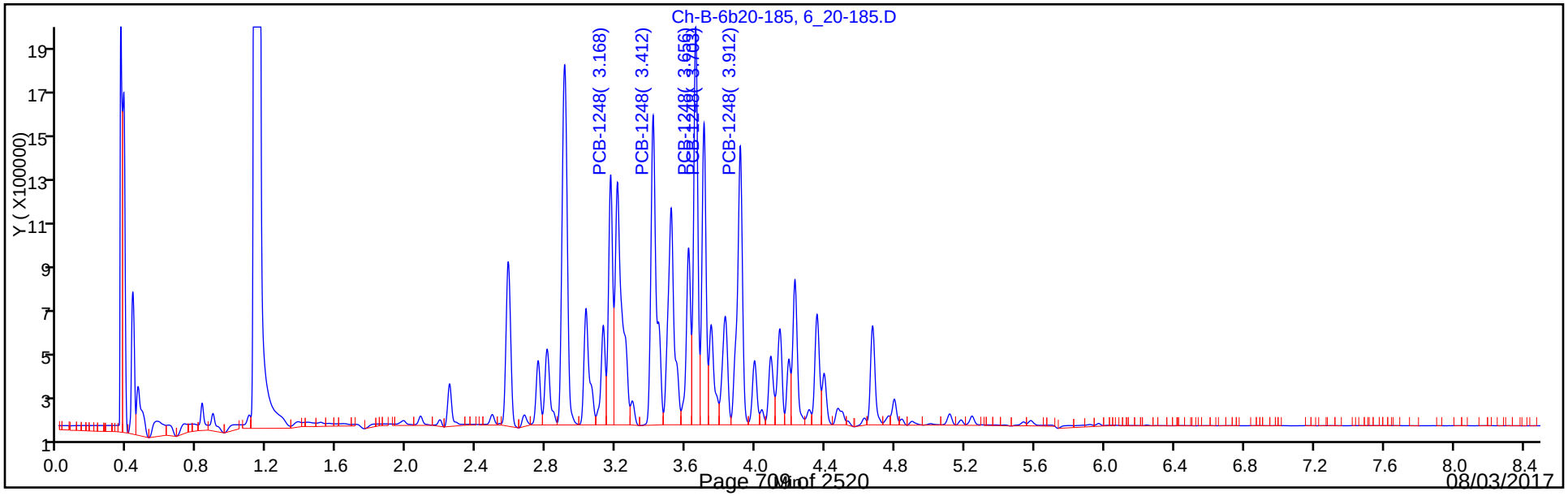
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-185.D

Injection Date:	23-Feb-2017 07:40:26	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Feb-2017 07:56:25 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:46 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 24-Feb-2017 10:34:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.047	0.000	7436977	0.5000	0.5000	
2	1.144	1.144	0.000	110253025	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							M
1	3.196	3.196	0.000	6942	0.0200	0.0209	M
1	3.470	3.470	0.000	10250	0.0200	0.0218	M
1	3.672	3.672	0.000	16615	0.0200	0.0214	M
1	3.708	3.708	0.000	10176	0.0200	0.0190	M
1	3.851	3.851	0.000	10614	0.0200	0.0218	M
		Average of Peak Amounts =				0.0210	
2	3.168	3.168	0.000	131326	0.0200	0.0199	M
2	3.410	3.410	0.000	190136	0.0200	0.0198	M
2	3.656	3.656	0.000	187302	0.0200	0.0244	M
2	3.703	3.703	0.000	136955	0.0200	0.0240	M
2	3.910	3.910	0.000	151152	0.0200	0.0204	M
		Average of Peak Amounts =				0.0217	
						RPD = 3.43	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00005 Amount Added: 0.25 Units: mL

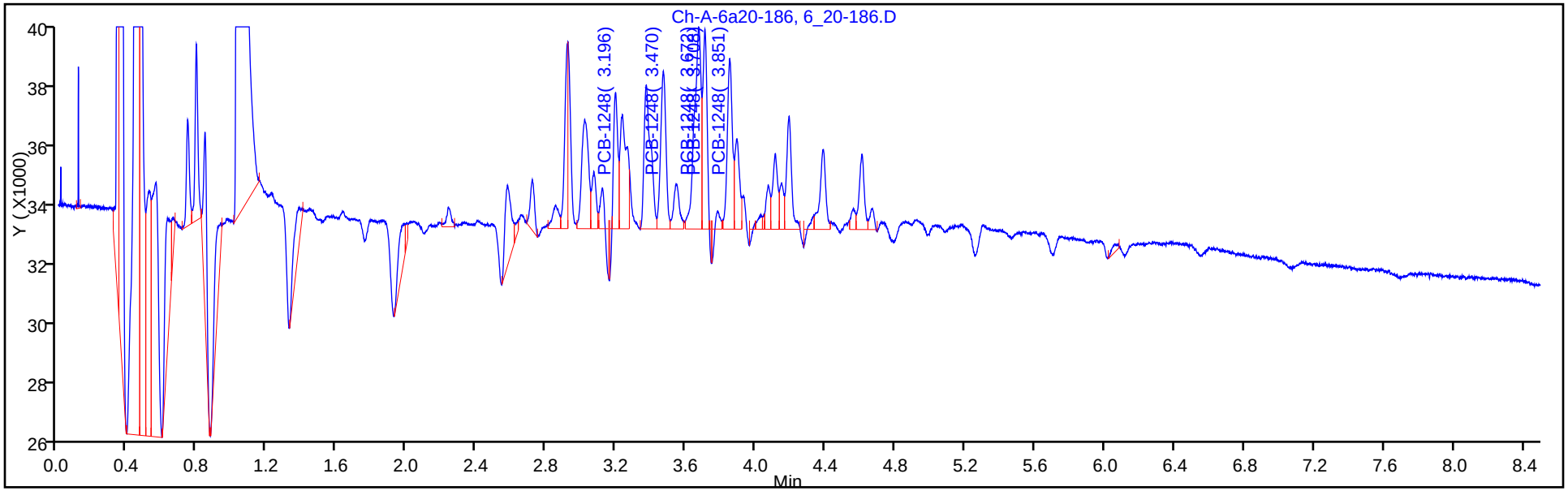
Report Date: 24-Feb-2017 10:37:46 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

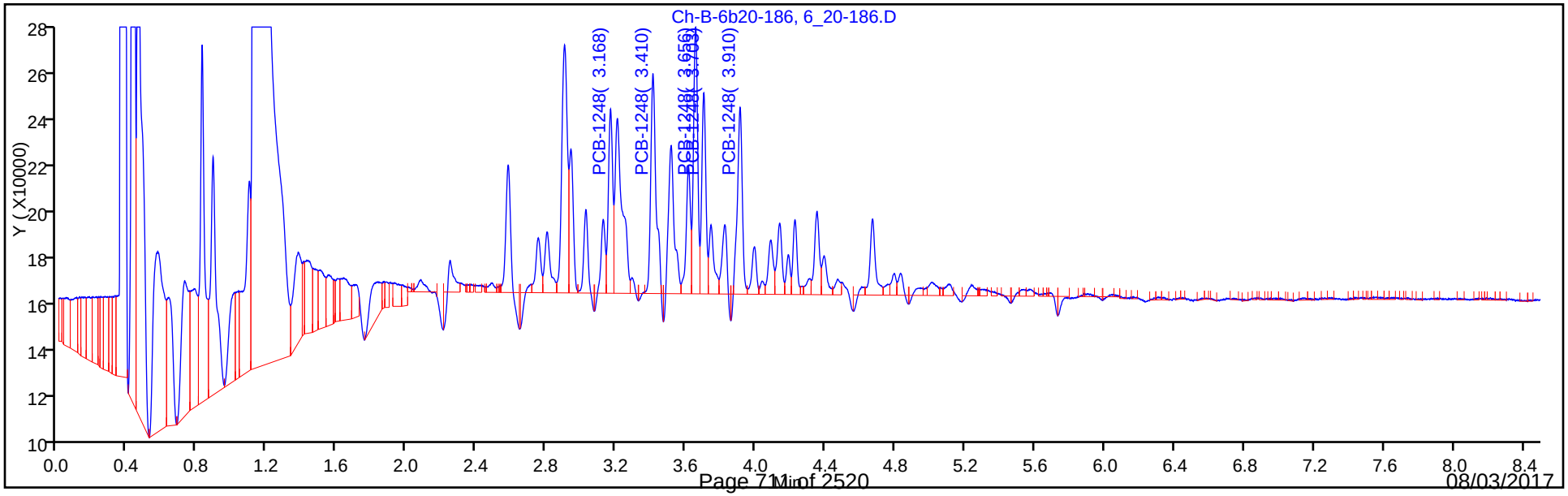
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Injection Date:	23-Feb-2017 07:56:25	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 24-Feb-2017 10:37:46 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Injection Date: 23-Feb-2017 07:56:25 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

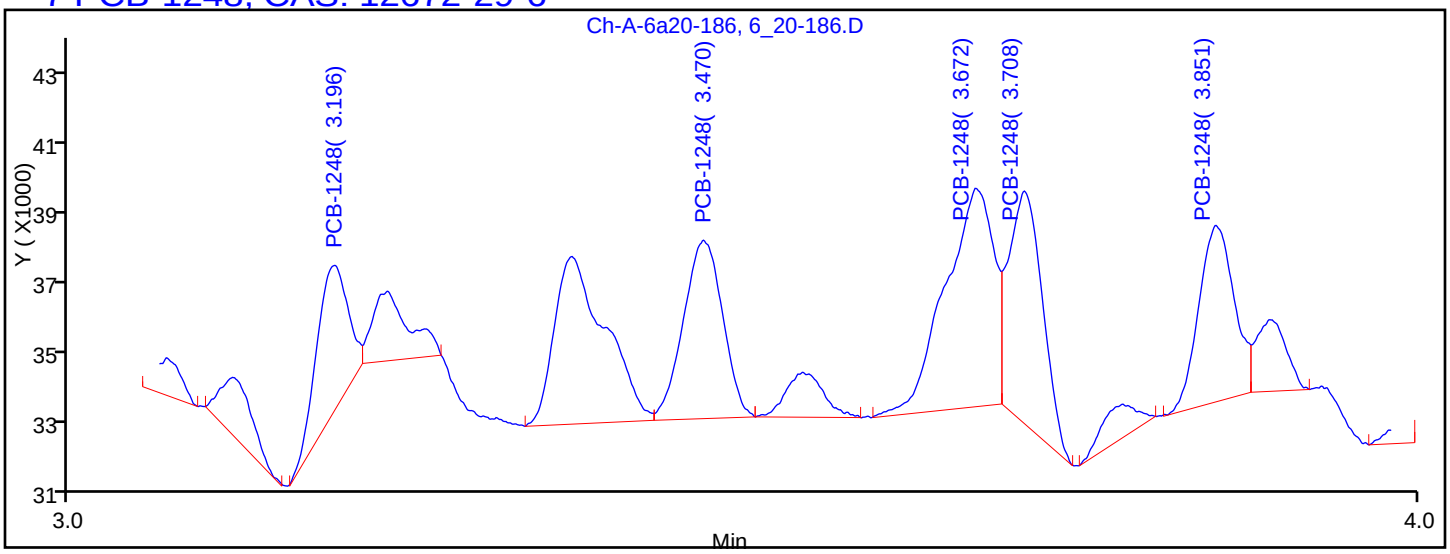
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 30

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

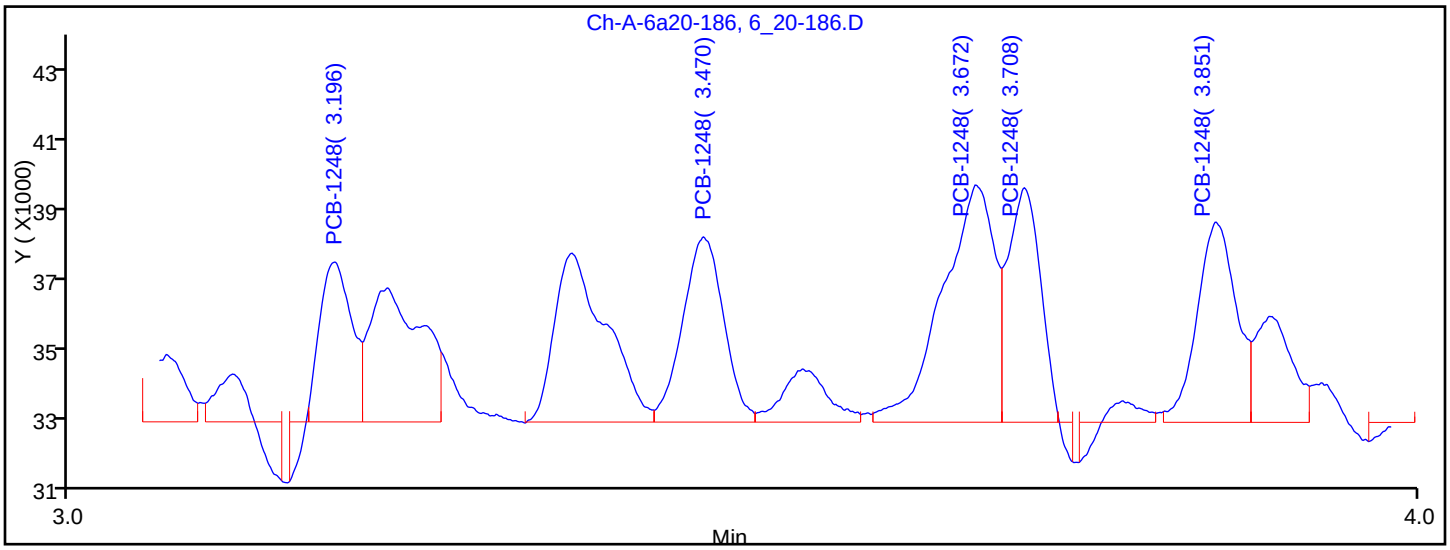
Column: Detector Ch-A-7A136

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.196	Response = 6243
3.470	Response = 9453
3.672	Response = 14410
3.708	Response = 10566
3.851	Response = 8444



Manual Integration Results

3.196	Response = 6942	M
3.470	Response = 10250	M
3.672	Response = 16615	M
3.708	Response = 10176	M
3.851	Response = 10614	M

Reviewer: owenj, 24-Feb-2017 10:34:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 07:24 Calibration End Date: 02/23/2017 07:56 Calibration ID: 29830

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/30	6_20-186.D
Level 2	IC 480-345014/29	6_20-185.D
Level 3	IC 480-345014/28	6_20-184.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	0.0298	0.0194	0.0189			Lin1	0.0002	0.0189							1.0000		0.9900
PCB-1248 Peak 2	0.0431	0.0321	0.0312			Lin1	0.0002	0.0312							1.0000		0.9900
PCB-1248 Peak 3	0.0425	0.0305	0.0315			Ave		0.0348				19.1		20.0			
PCB-1248 Peak 4	0.0311	0.0230	0.0235			Ave		0.0258				17.5		20.0			
PCB-1248 Peak 5	0.0343	0.0268	0.0274			Lin1	0.0001	0.0272							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 345014

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2017 07:24 Calibration End Date: 02/23/2017 07:56 Calibration ID: 29830

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-345014/30	6_20-186.D
Level 2	IC 480-345014/29	6_20-185.D
Level 3	IC 480-345014/28	6_20-184.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	131326	1935836	7974841			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Lin1	190136	3197779	13155803			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Ave	187302	3033980	13261751			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Ave	136955	2286462	9905146			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Lin1	151152	2669544	11552581			0.0200	0.500	2.00		

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-184.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Feb-2017 07:24:31 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:39 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.048	-0.001	7215325	0.5000	0.5000	
2	1.145	1.146	-0.001	105299391	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							
1	3.193	3.196	-0.003	687445	2.00	2.03	
1	3.469	3.470	-0.001	906996	2.00	1.99	
1	3.672	3.672	0.000	1509214	2.00	2.01	
1	3.708	3.708	0.000	1123528	2.00	2.16	
1	3.850	3.851	-0.001	943650	2.00	2.00	
		Average of Peak Amounts =				2.04	
2	3.168	3.168	0.000	7974841	2.00	2.00	
2	3.413	3.410	0.002	13155803	2.00	1.99	
2	3.657	3.656	0.001	13261751	2.00	1.81	
2	3.703	3.703	0.001	9905146	2.00	1.82	
2	3.912	3.910	0.002	11552581	2.00	2.01	
		Average of Peak Amounts =				1.93	
						RPD = 5.51	

Reagents:

1248w/IS@ 2.0_00005 Amount Added: 0.25 Units: mL

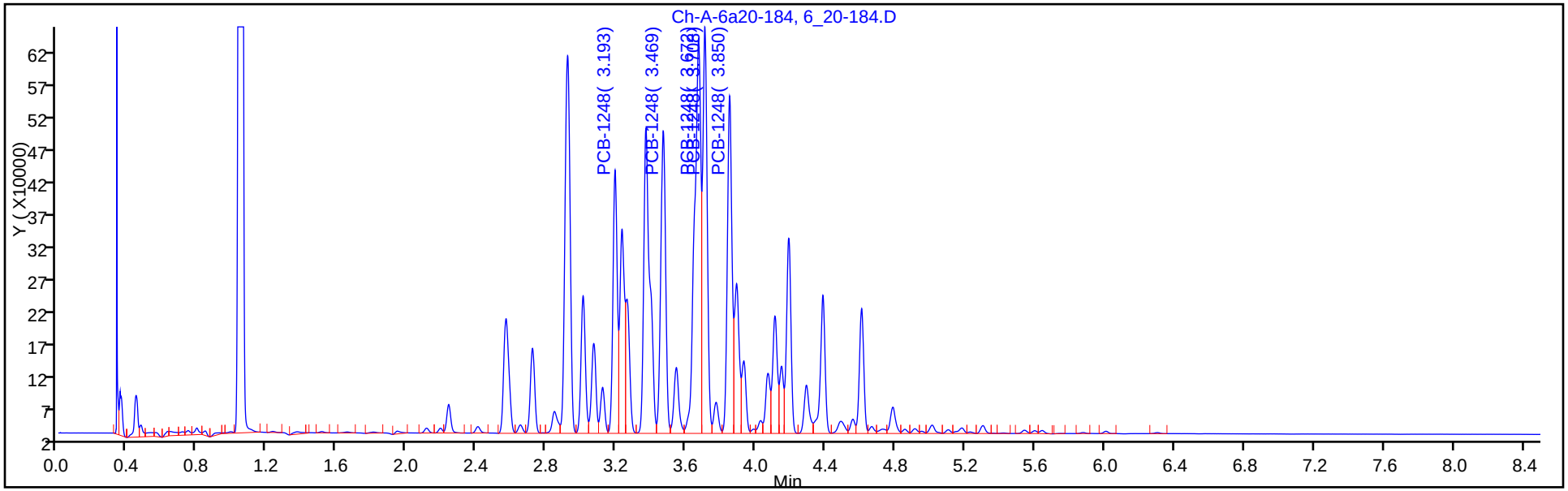
Report Date: 24-Feb-2017 10:37:40 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

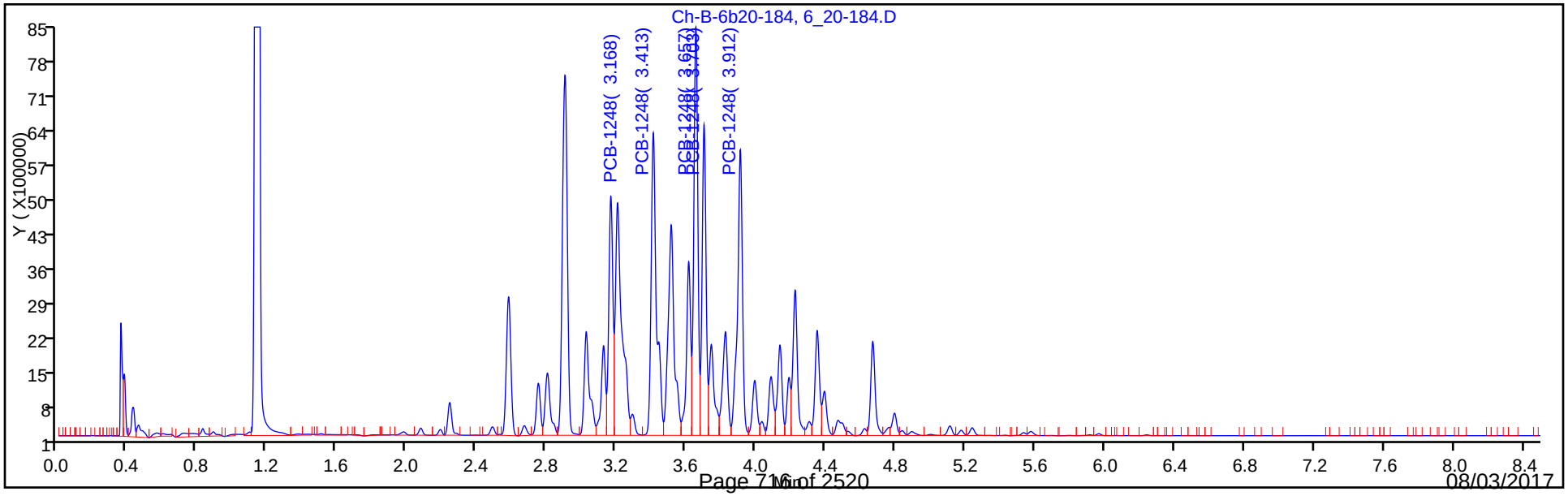
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-184.D

Injection Date:	23-Feb-2017 07:24:31	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-185.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Feb-2017 07:40:26 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:43 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.045	1.048	-0.003	6844669	0.5000	0.5000	
2	1.142	1.146	-0.004	99572873	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							
1	3.193	3.196	-0.003	151414	0.5000	0.4715	
1	3.469	3.470	-0.001	199120	0.5000	0.4595	
1	3.672	3.672	0.000	330712	0.5000	0.4632	
1	3.708	3.708	0.000	238478	0.5000	0.4840	
1	3.850	3.851	-0.001	205038	0.5000	0.4570	
		Average of Peak Amounts =				0.4670	
2	3.168	3.168	0.000	1935836	0.5000	0.5038	
2	3.412	3.410	0.002	3197779	0.5000	0.5066	
2	3.656	3.656	0.000	3033980	0.5000	0.4377	
2	3.703	3.703	0.001	2286462	0.5000	0.4442	
2	3.912	3.910	0.002	2669544	0.5000	0.4879	
		Average of Peak Amounts =				0.4761	
						RPD = 1.91	

Reagents:

1248w/IS@ 0.5_00008 Amount Added: 0.25 Units: mL

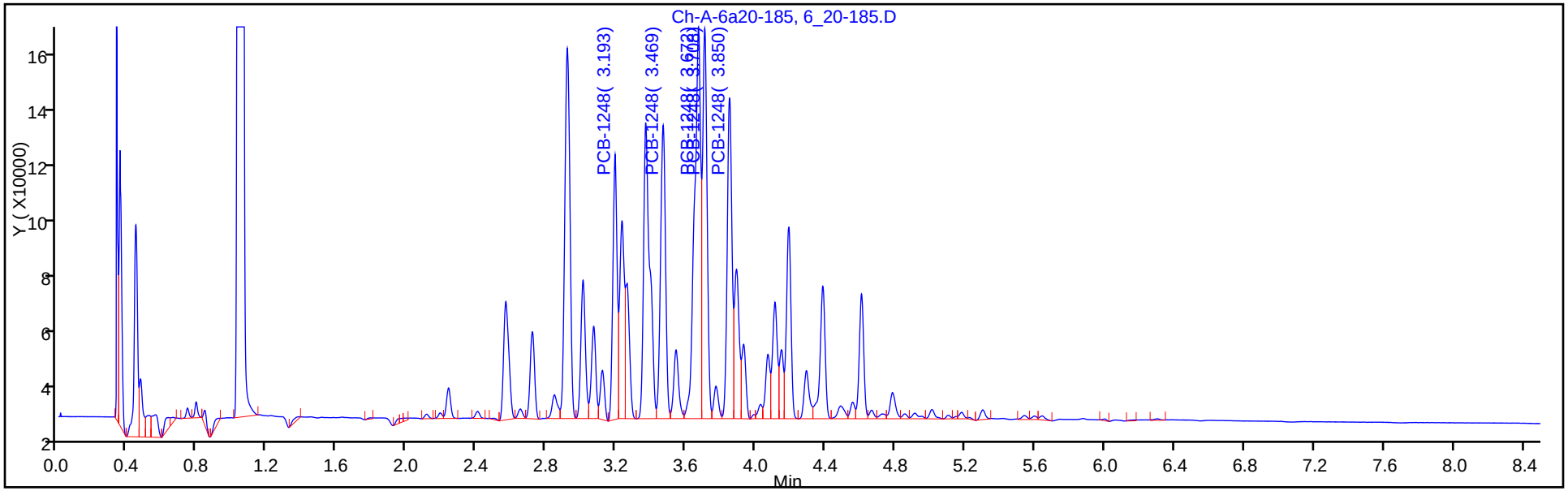
Report Date: 24-Feb-2017 10:37:44 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

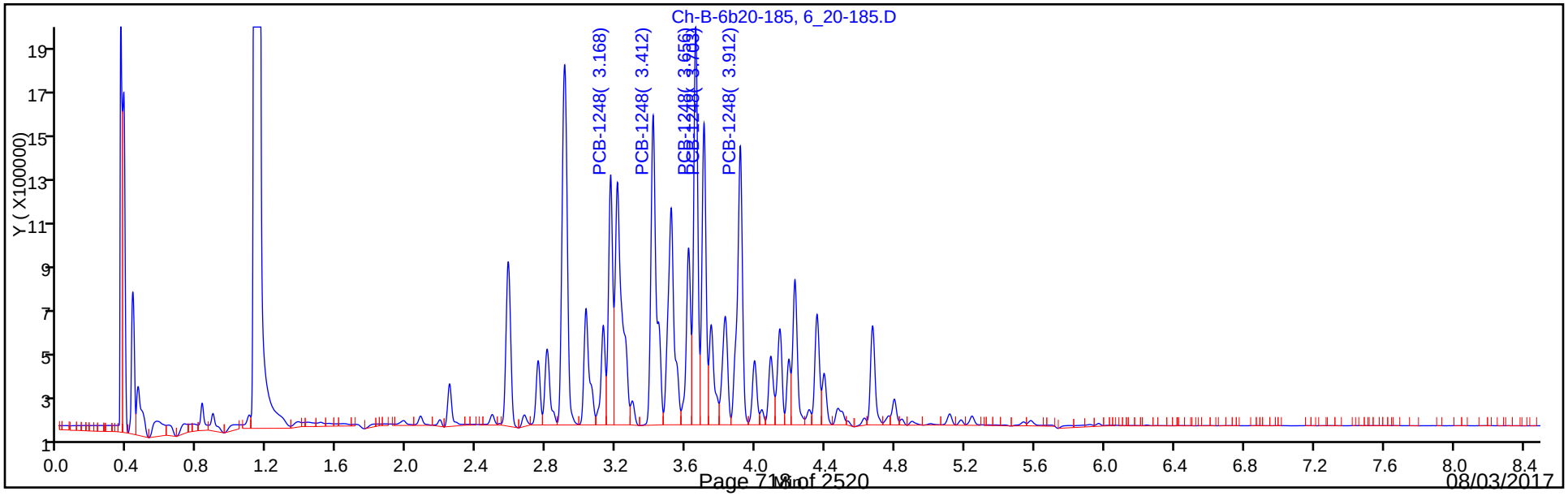
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-185.D

Injection Date:	23-Feb-2017 07:40:26	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Feb-2017 07:56:25 ALS Bottle#: 0 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 24-Feb-2017 10:37:46 Calib Date: 23-Feb-2017 07:56:25
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK032

First Level Reviewer: owenj Date: 24-Feb-2017 10:34:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.047	1.047	0.000	7436977	0.5000	0.5000	
2	1.144	1.144	0.000	110253025	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							M
1	3.196	3.196	0.000	6942	0.0200	0.0209	M
1	3.470	3.470	0.000	10250	0.0200	0.0218	M
1	3.672	3.672	0.000	16615	0.0200	0.0214	M
1	3.708	3.708	0.000	10176	0.0200	0.0190	M
1	3.851	3.851	0.000	10614	0.0200	0.0218	M
		Average of Peak Amounts =				0.0210	
2	3.168	3.168	0.000	131326	0.0200	0.0199	M
2	3.410	3.410	0.000	190136	0.0200	0.0198	M
2	3.656	3.656	0.000	187302	0.0200	0.0244	M
2	3.703	3.703	0.000	136955	0.0200	0.0240	M
2	3.910	3.910	0.000	151152	0.0200	0.0204	M
		Average of Peak Amounts =				0.0217	
						RPD = 3.43	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00005 Amount Added: 0.25 Units: mL

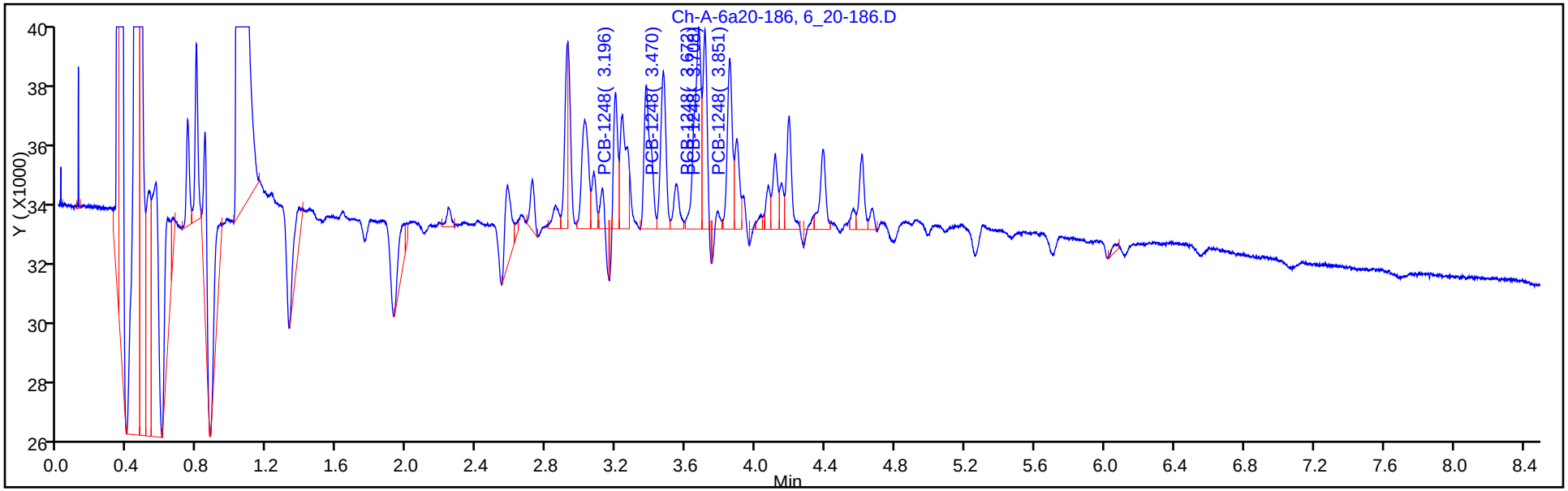
Report Date: 24-Feb-2017 10:37:46 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

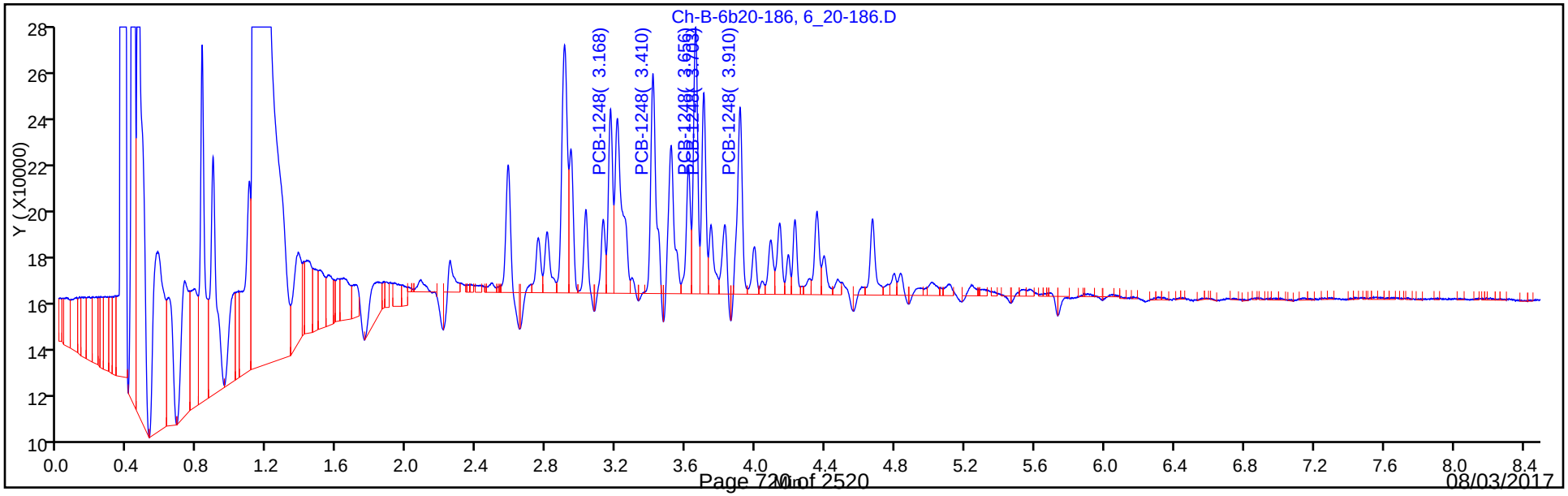
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Injection Date:	23-Feb-2017 07:56:25	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	30
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 24-Feb-2017 10:37:47 Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170222-60593.b\6_20-186.D

Injection Date: 23-Feb-2017 07:56:25 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

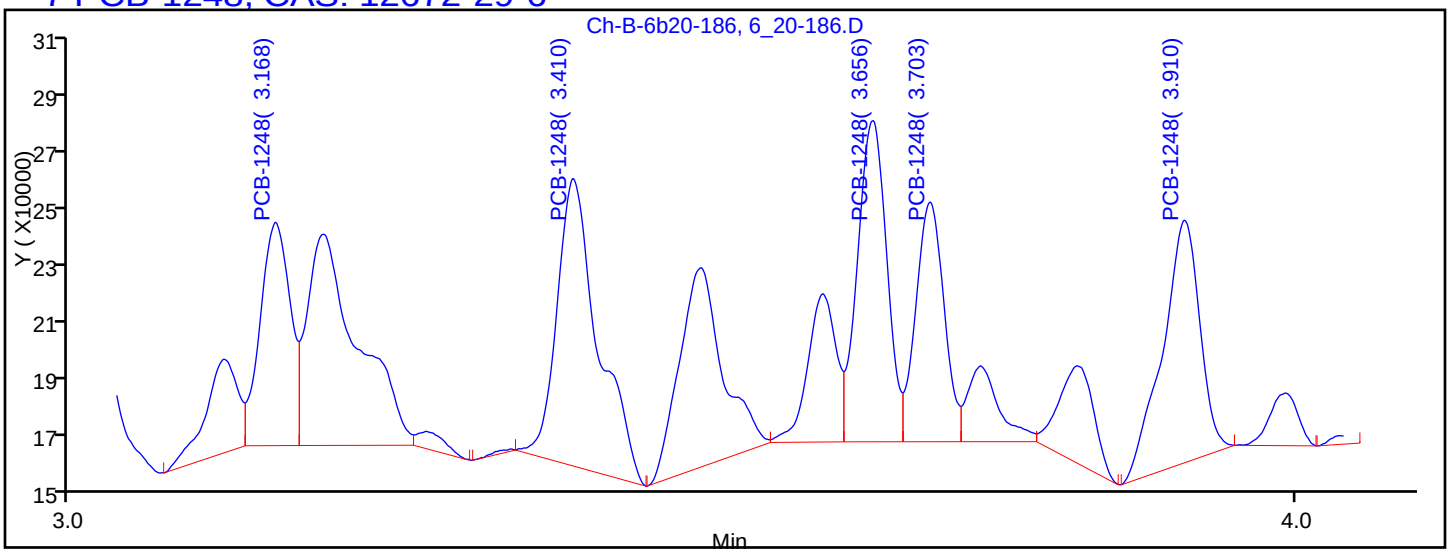
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 30

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

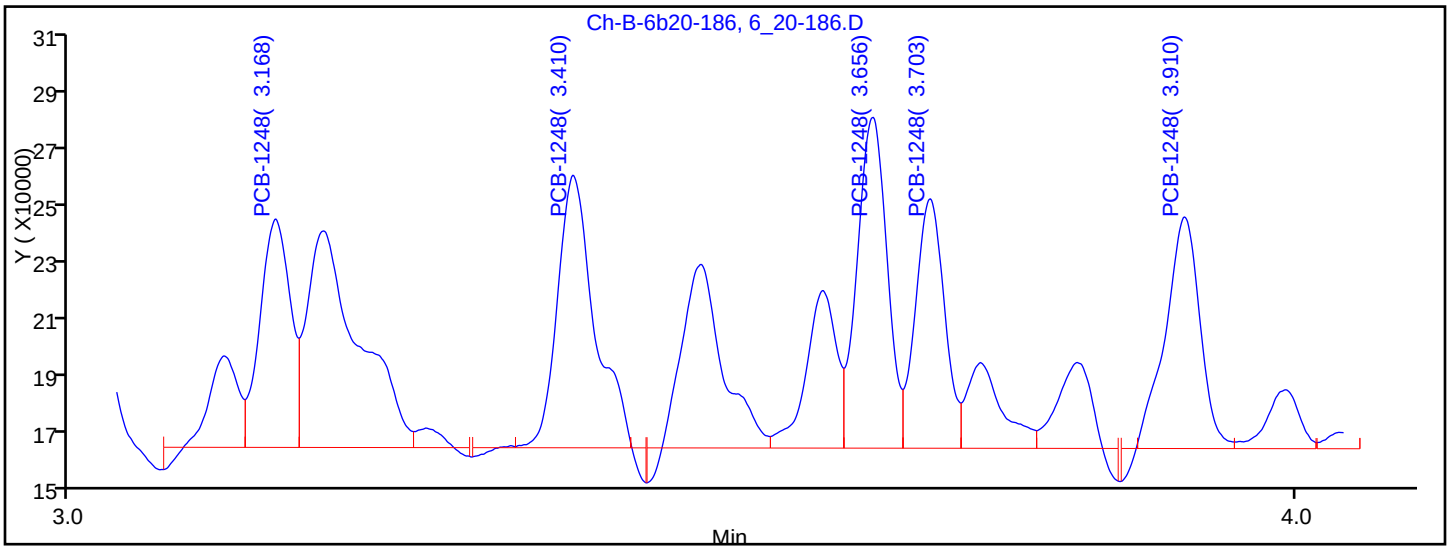
Column: Detector Ch-B-7b136

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.168	Response = 126896
3.410	Response = 221157
3.656	Response = 178046
3.703	Response = 127716
3.910	Response = 170615



Manual Integration Results

3.168	Response = 131326	M
3.410	Response = 190136	M
3.656	Response = 187302	M
3.703	Response = 136955	M
3.910	Response = 151152	M

Reviewer: owenj, 24-Feb-2017 10:34:24

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 363130

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2017 11:38 Calibration End Date: 06/21/2017 13:13 Calibration ID: 30751

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-363130/10	6_27-054.D
Level 2	IC 480-363130/9	6_27-053.D
Level 3	IC 480-363130/8	6_27-052.D
Level 4	IC 480-363130/7	6_27-051.D
Level 5	ICIS 480-363130/6	6_27-050.D
Level 6	IC 480-363130/5	6_27-049.D
Level 7	IC 480-363130/4	6_27-048.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0303 0.0257	0.0257 0.0250	0.0250	0.0247	0.0267	Ave		0.0262				7.4		20.0			
PCB-1016 Peak 2	0.0283 0.0169	0.0200 0.0166	0.0176	0.0172	0.0177	Lin1	0.0002	0.0166							0.9990		0.9900
PCB-1016 Peak 3	0.0841 0.0626	0.0648 0.0648	0.0613	0.0619	0.0649	Lin1	0.0002	0.0638							0.9990		0.9900
PCB-1016 Peak 4	0.0388 0.0226	0.0277 0.0227	0.0238	0.0232	0.0236	Lin1	0.0003	0.0225							1.0000		0.9900
PCB-1016 Peak 5	0.0263 0.0154	0.0190 0.0156	0.0162	0.0156	0.0159	Lin1	0.0002	0.0153							1.0000		0.9900
PCB-1260 Peak 1	0.0630 0.0464	0.0556 0.0488	0.0507	0.0489	0.0508	Lin1	0.0003	0.0481							0.9990		0.9900
PCB-1260 Peak 2	0.0392 0.0253	0.0334 0.0261	0.0293	0.0276	0.0281	Ave		0.0299				16.4		20.0			
PCB-1260 Peak 3	0.0306 0.0219	0.0286 0.0228	0.0259	0.0241	0.0243	Lin1	0.0002	0.0226							0.9990		0.9900
PCB-1260 Peak 4	0.0743 0.0626	0.0719 0.0668	0.0673	0.0645	0.0671	Lin1	0.0002	0.0654							0.9990		0.9900
PCB-1260 Peak 5	0.0351 0.0275	0.0356 0.0284	0.0316	0.0296	0.0301	Lin1	0.0002	0.0283							0.9990		0.9900
Tetrachloro-m-xylene	1.0338 0.8569	0.7849 0.8724	0.7632	0.7902	0.8681	Lin1	0	0.8618							0.9990		0.9900
DCB Decachlorobiphenyl	0.5417 0.4408	0.4644 0.4386	0.4584	0.4482	0.4658	Lin1	0	0.4411							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 363130

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2017 11:38 Calibration End Date: 06/21/2017 13:13 Calibration ID: 30751

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-363130/10	6_27-054.D
Level 2	IC 480-363130/9	6_27-053.D
Level 3	IC 480-363130/8	6_27-052.D
Level 4	IC 480-363130/7	6_27-051.D
Level 5	ICIS 480-363130/6	6_27-050.D
Level 6	IC 480-363130/5	6_27-049.D
Level 7	IC 480-363130/4	6_27-048.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	14855 735956	35701 1394204	68344	139382	367113	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	13858 483566	27795 928158	48077	97155	244159	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	41226 1794001	89882 3616039	167813	349268	893816	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	19023 647363	38461 1267957	65251	130990	325425	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	12913 439910	26415 868006	44395	88073	219328	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	30884 1328881	77041 2718583	138714	275524	698790	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Ave	19210 723212	46379 1457742	80101	155691	386848	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	14992 627853	39725 1272927	71008	135835	334464	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	36421 1791898	99655 3723892	184361	363959	922965	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	17208 788786	49361 1583696	86595	167198	413752	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	12673 613559	27210 1216177	52240	111418	298711	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	6641 315616	16098 611413	31377	63195	160277	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 21-Jun-2017 11:38:17 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:49:40 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 12:24:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.017	1.018	-0.001	13940175	0.5000	0.5000	M
2	1.121	1.121	0.000	183999624	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.918	1.919	-0.001	1216177	0.0500	0.0506	M
2	1.750	1.751	-0.001	17603071	0.0500	0.0486	M
						RPD = 4.20	
6 PCB-1016							M
1	2.515	2.516	-0.001	1394204	2.00	1.91	M
1	2.664	2.666	-0.002	928158	2.00	1.99	M
1	2.866	2.867	-0.001	3616039	2.00	2.03	M
1	2.952	2.954	-0.002	1267957	2.00	2.01	M
1	3.013	3.018	-0.005	868006	2.00	2.02	M
		Average of Peak Amounts =				1.99	
2	2.523	2.524	-0.001	19165519	2.00	1.87	M
2	2.846	2.846	0.000	50124397	2.00	2.00	M
2	2.966	2.967	-0.001	16642975	2.00	1.91	M
2	3.107	3.108	-0.001	9286549	2.00	1.92	M
2	3.349	3.352	-0.003	18853567	2.00	1.91	M
		Average of Peak Amounts =				1.92	
						RPD = 3.52	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.722	4.723	0.000	2718583	2.00	2.02	M
1	4.848	4.852	-0.004	1457742	2.00	1.75	M
1	5.039	5.043	-0.003	1272927	2.00	2.01	M
1	5.240	5.241	-0.001	3723892	2.00	2.04	M
1	5.478	5.482	-0.004	1583696	2.00	2.00	M
		Average of Peak Amounts =				1.96	
2	4.731	4.733	-0.001	18978956	2.00	1.99	M
2	4.775	4.777	-0.002	13708307	2.00	1.98	M
2	5.042	5.043	-0.001	13697710	2.00	1.98	M
2	5.176	5.178	-0.002	36635213	2.00	2.03	M
2	5.513	5.515	-0.003	18882696	2.00	2.00	M
		Average of Peak Amounts =				2.00	
						RPD = 1.61	
$ 15 DCB Decachlorobiphenyl							M
1	6.495	6.496	-0.001	611413	0.0500	0.0496	M
2	6.428	6.430	-0.002	5002733	0.0500	0.0474	M
						RPD = 4.62	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00006 Amount Added: 1.00 Units: mL

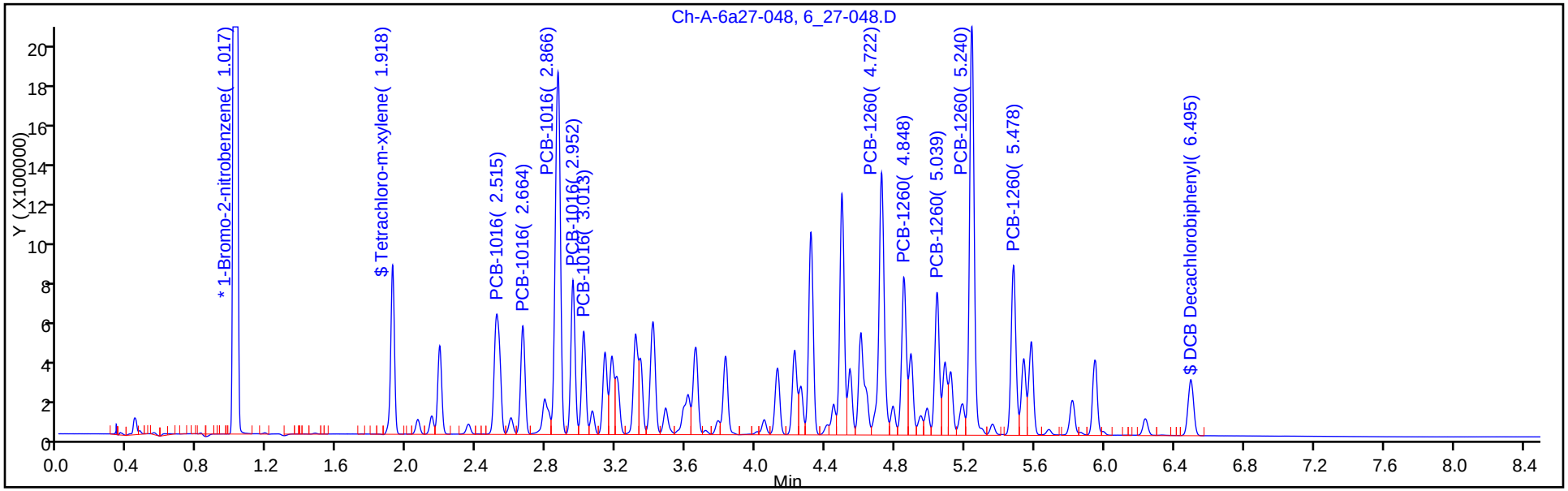
Report Date: 21-Jun-2017 17:49:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

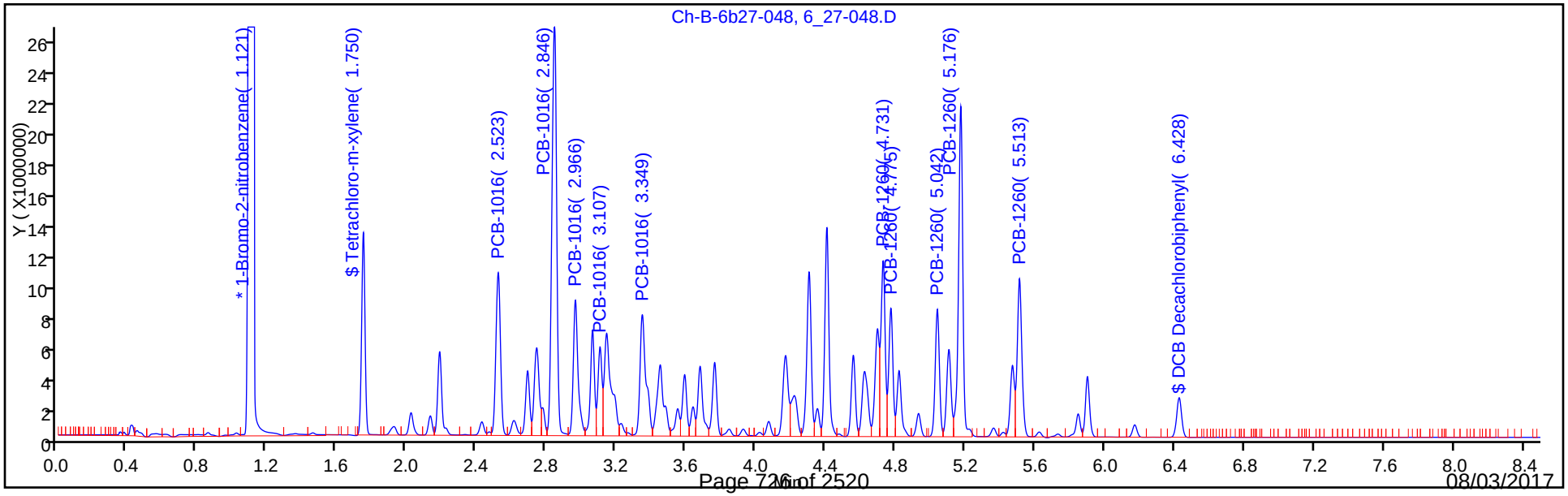
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D

Injection Date:	21-Jun-2017 11:38:17	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

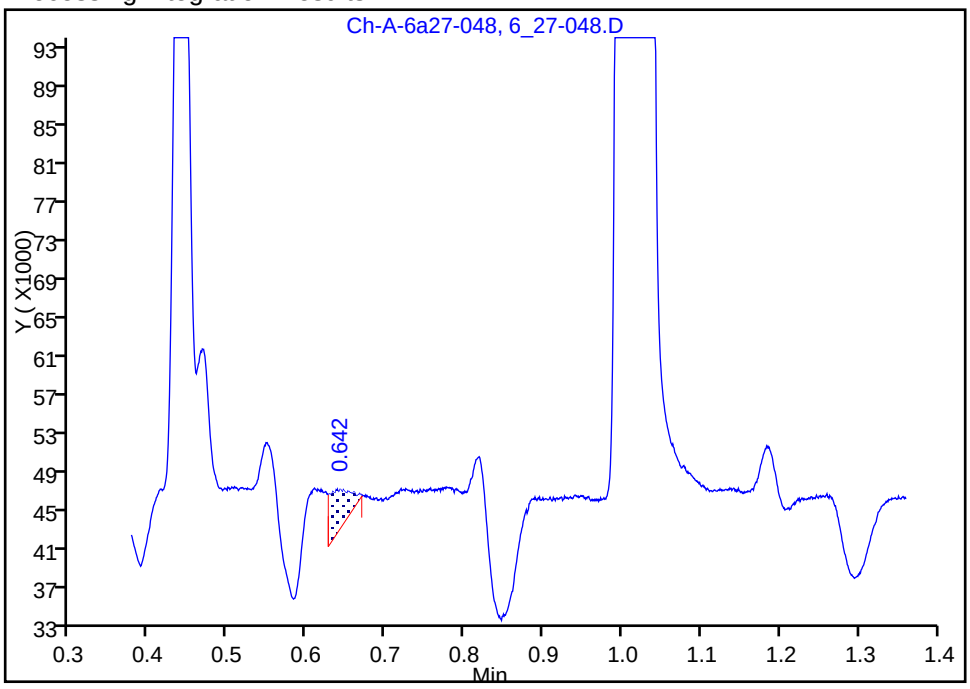
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D
Injection Date: 21-Jun-2017 11:38:17 Instrument ID: HP6890-6
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

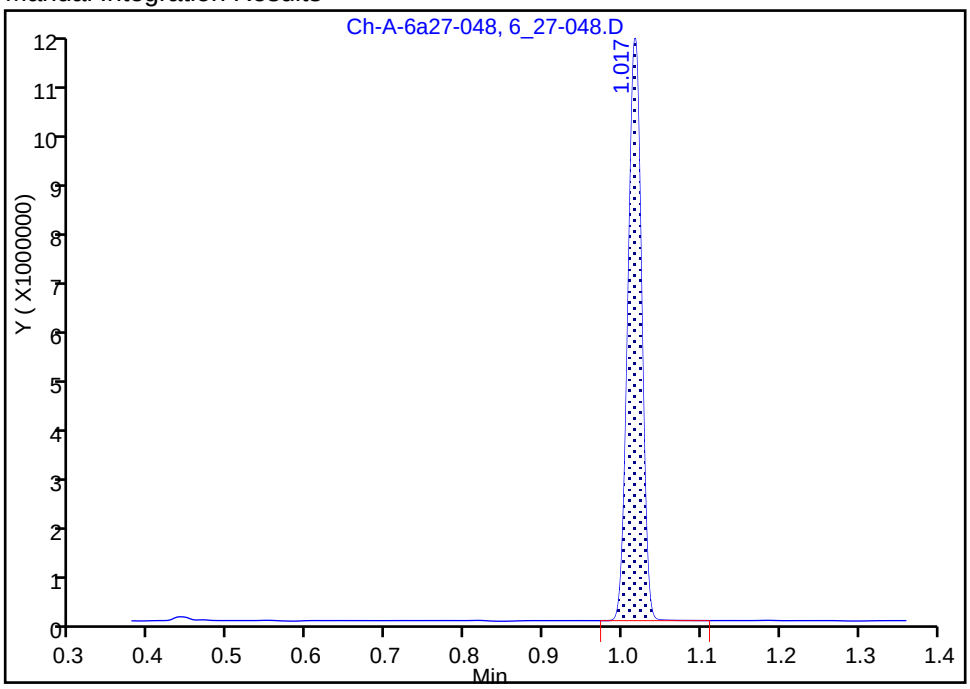
Processing Integration Results

RT: 0.64
Area: 7541
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.02
Area: 13940175
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 12:23:52
Audit Action: Assigned Compound ID Audit Reason:

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

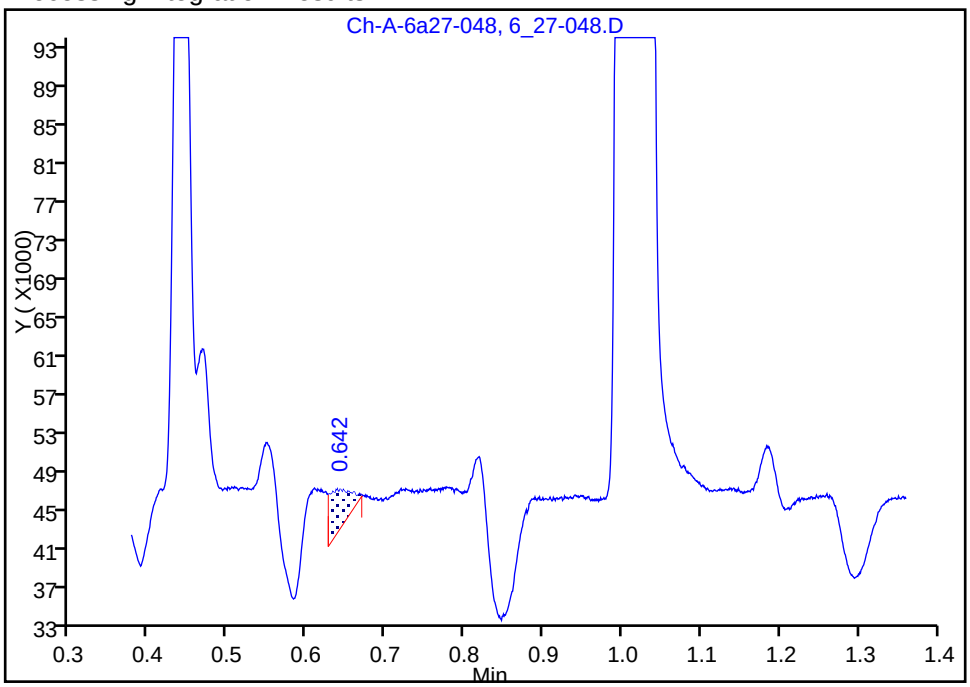
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D
Injection Date: 21-Jun-2017 11:38:17 Instrument ID: HP6890-6
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

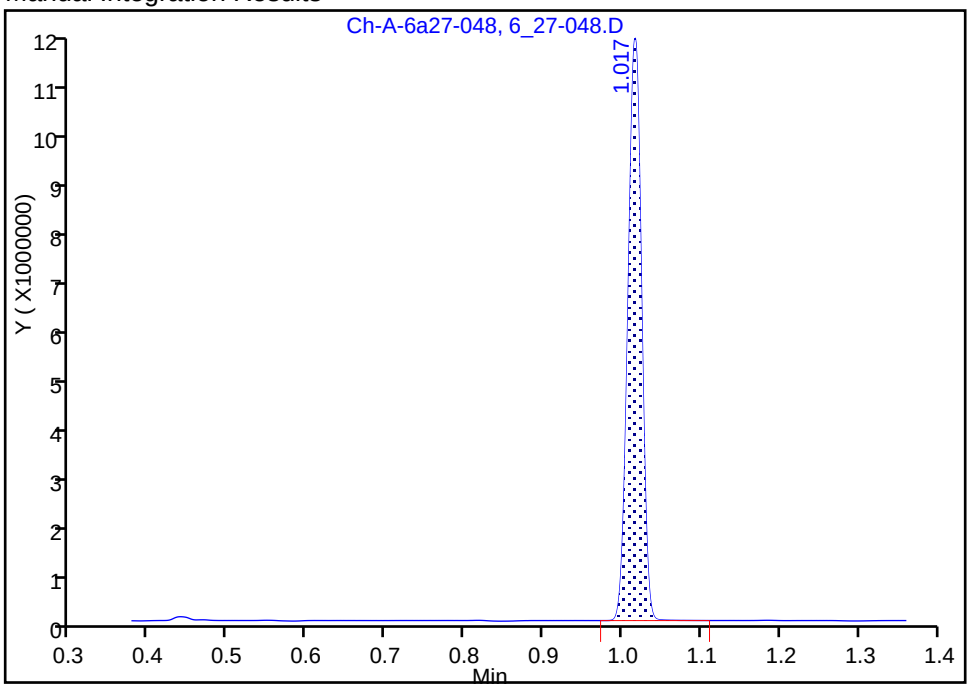
Processing Integration Results

RT: 0.64
Area: 7541
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.02
Area: 13940175
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 17:33:11
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

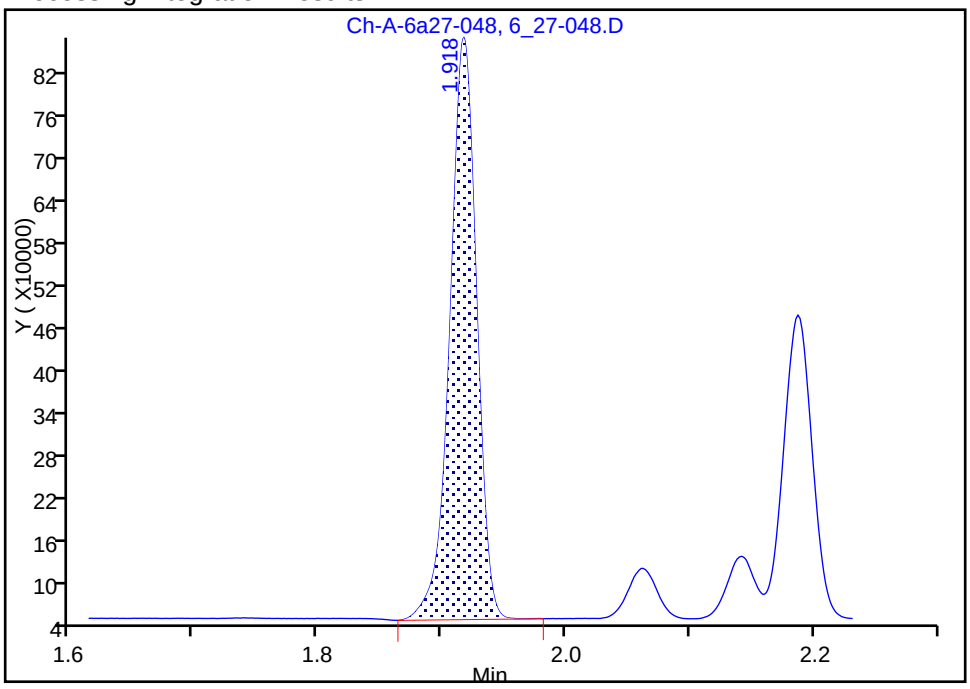
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D
Injection Date: 21-Jun-2017 11:38:17 Instrument ID: HP6890-6
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

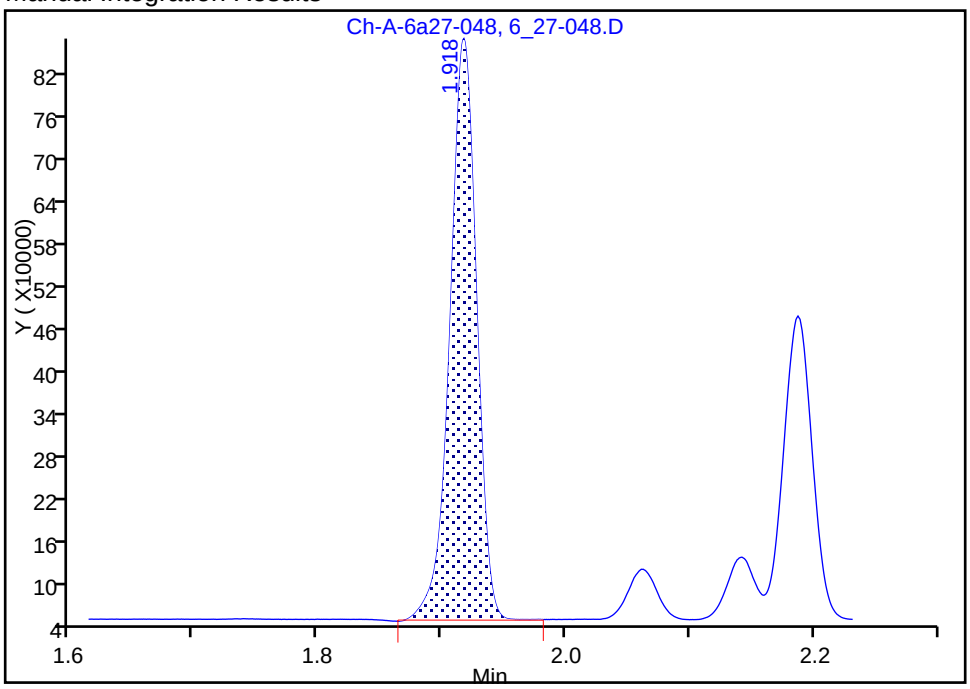
Processing Integration Results

RT: 1.92
Area: 1219356
Amount: 0.050643
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 1216177
Amount: 0.050639
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:10:35
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D

Injection Date: 21-Jun-2017 11:38:17 Instrument ID: HP6890-6

Lims ID: IC 7

Client ID:

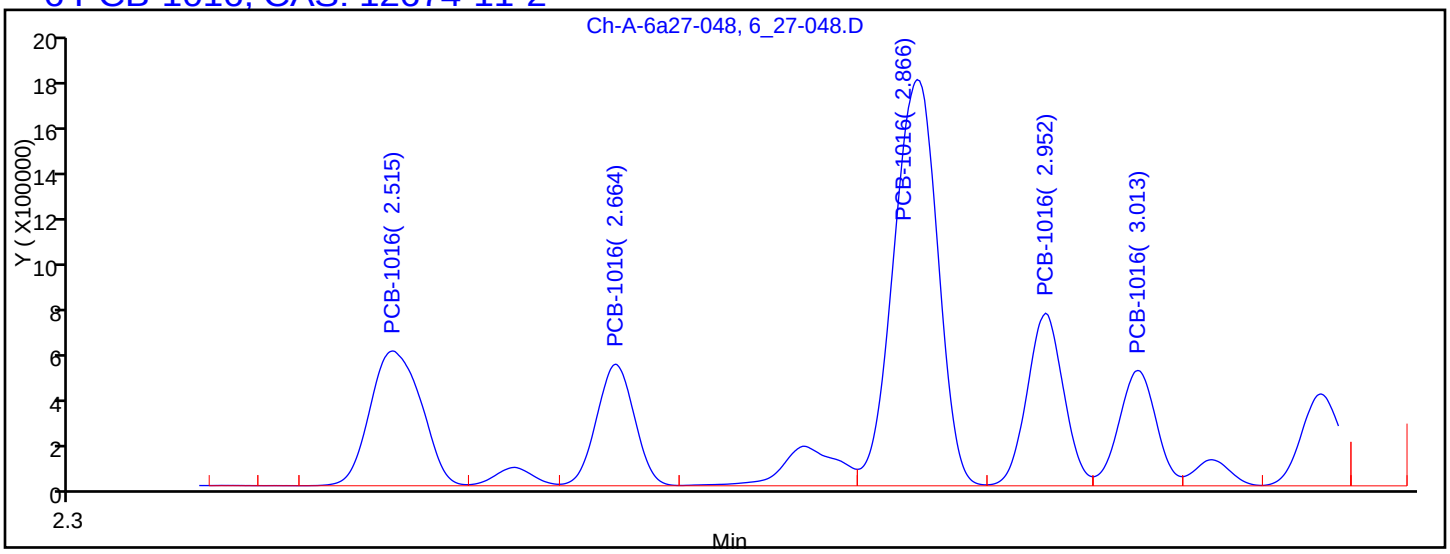
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

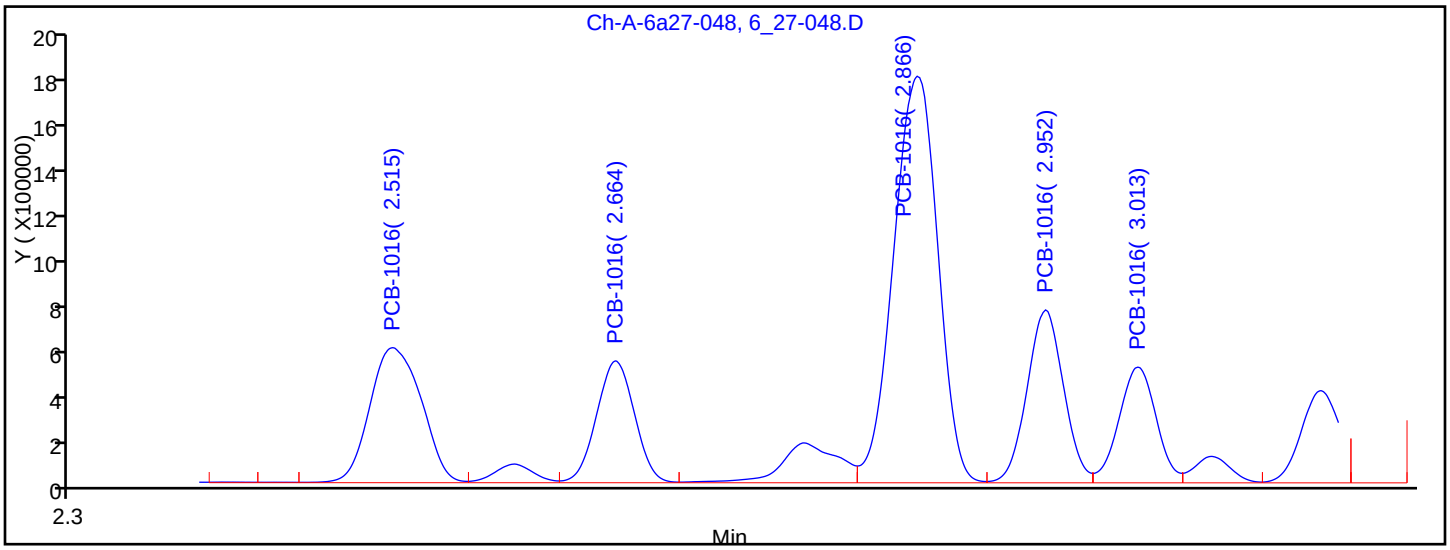
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.515	Response = 1386826
2.664	Response = 922540
2.866	Response = 3609390
2.952	Response = 1262342
3.013	Response = 863124



Manual Integration Results

2.515	Response = 1394204	M
2.664	Response = 928158	M
2.866	Response = 3616039	M
2.952	Response = 1267957	M
3.013	Response = 868006	M

Reviewer: owenj, 21-Jun-2017 16:10:35

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D

Injection Date: 21-Jun-2017 11:38:17 Instrument ID: HP6890-6

Lims ID: IC 7

Client ID:

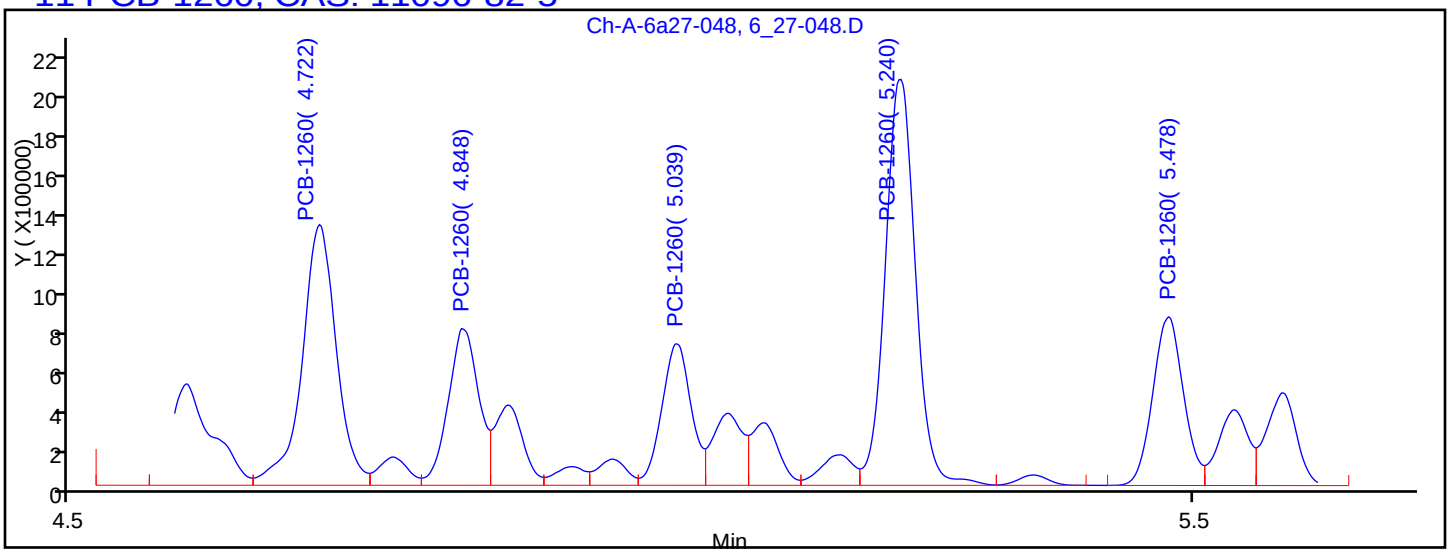
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

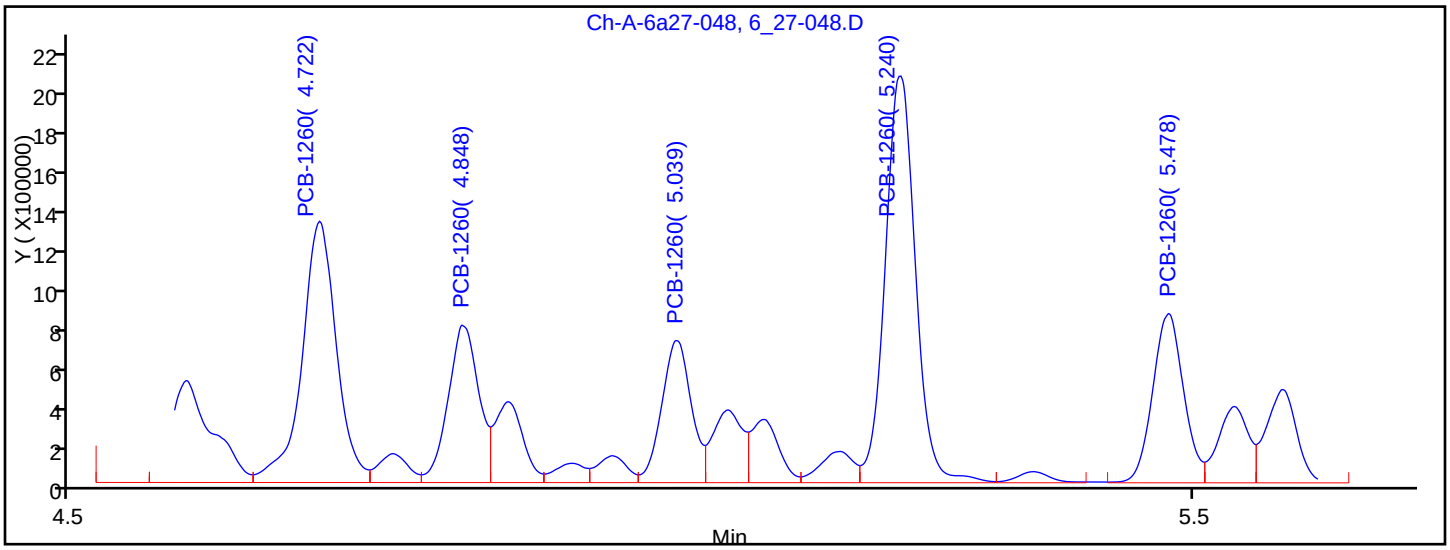
Column: Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.722	Response = 2700033
4.848	Response = 1446180
5.039	Response = 1260828
5.240	Response = 3697317
5.478	Response = 1566705



Manual Integration Results

4.722	Response = 2718583	M
4.848	Response = 1457742	M
5.039	Response = 1272927	M
5.240	Response = 3723892	M
5.478	Response = 1583696	M

Reviewer: owenj, 21-Jun-2017 17:45:06

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

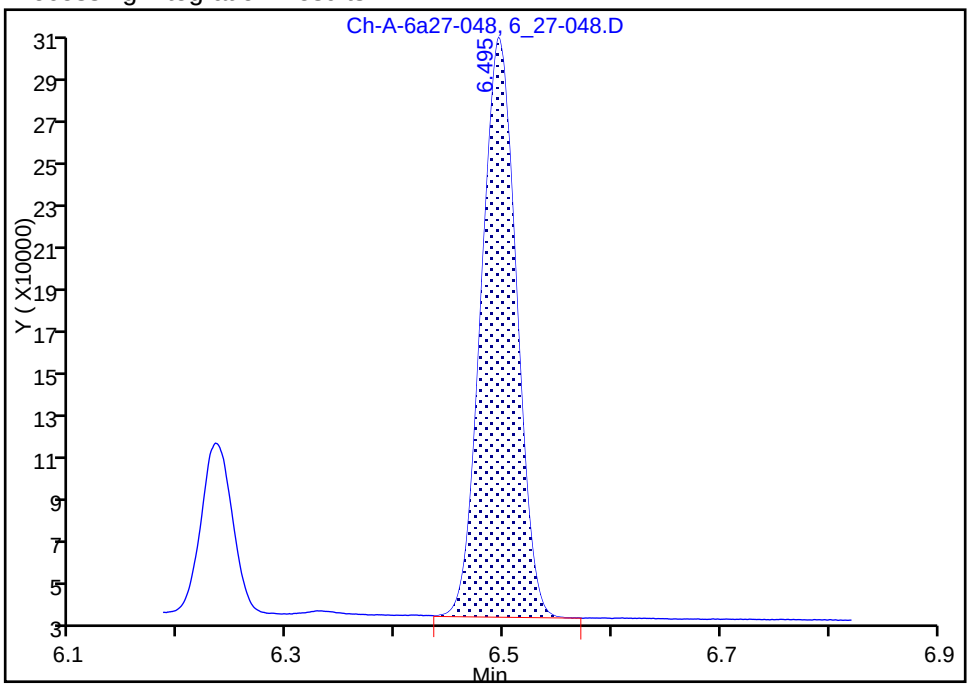
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D
Injection Date: 21-Jun-2017 11:38:17 Instrument ID: HP6890-6
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

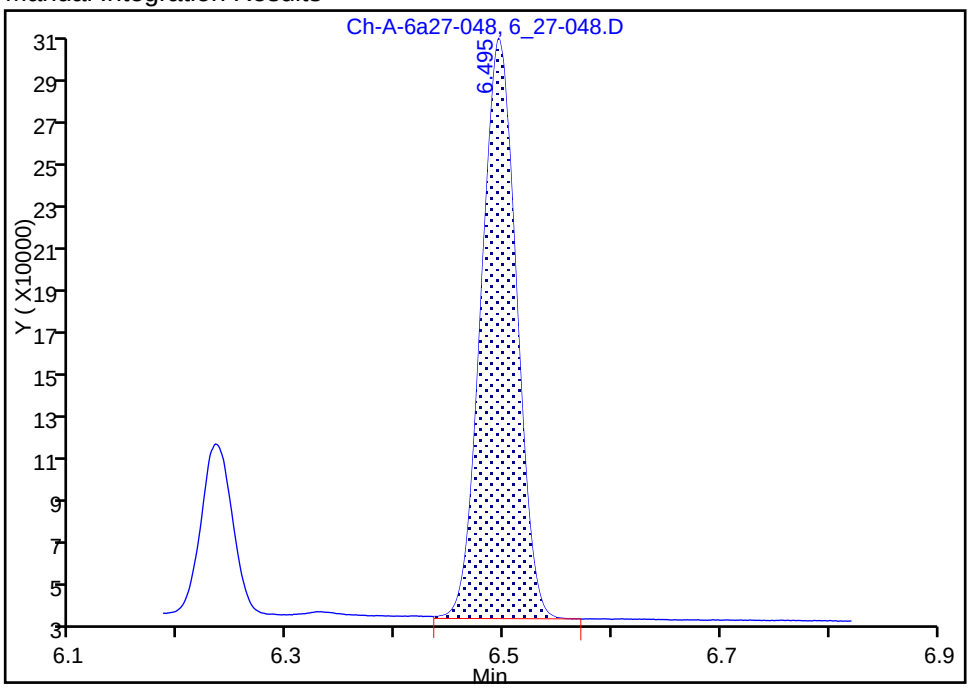
Processing Integration Results

RT: 6.50
Area: 609677
Amount: 0.049722
Amount Units: ng/uL



Manual Integration Results

RT: 6.50
Area: 611413
Amount: 0.049611
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 17:45:06
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 21-Jun-2017 11:54:18 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:49:44 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 12:24:52

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.015	1.018	-0.003	14320970	0.5000	0.5000	M
2	1.119	1.121	-0.002	177579963	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.917	1.919	-0.002	613559	0.0250	0.0249	M
2	1.749	1.751	-0.002	9045416	0.0250	0.0257	M
						RPD = 3.24	
6 PCB-1016							M
1	2.514	2.516	-0.002	735956	1.00	0.9824	M
1	2.665	2.666	-0.001	483566	1.00	1.00	M
1	2.866	2.867	-0.001	1794001	1.00	0.9789	M
1	2.953	2.954	-0.002	647363	1.00	0.99	M
1	3.014	3.018	-0.004	439910	1.00	0.9890	M
		Average of Peak Amounts =				0.9889	
2	2.523	2.524	-0.001	10501473	1.00	1.05	M
2	2.845	2.846	-0.001	24467023	1.00	1.00	M
2	2.966	2.967	-0.001	8769474	1.00	1.03	M
2	3.108	3.108	0.000	4823283	1.00	1.02	M
2	3.350	3.352	-0.002	9802883	1.00	1.02	M
		Average of Peak Amounts =				1.02	
						RPD = 3.40	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.723	4.723	0.000	1328881	1.00	0.9589	M
1	4.851	4.852	-0.001	723212	1.00	0.8458	M
1	5.042	5.043	0.000	627853	1.00	0.9584	M
1	5.240	5.241	-0.001	1791898	1.00	0.9539	M
1	5.478	5.482	-0.004	788786	1.00	0.9666	M
		Average of Peak Amounts =				0.9367	
2	4.732	4.733	0.000	9385624	1.00	1.01	M
2	4.777	4.777	0.000	6773657	1.00	1.00	M
2	5.043	5.043	-0.001	6711652	1.00	1.00	M
2	5.178	5.178	0.000	17282478	1.00	0.99	M
2	5.513	5.515	-0.002	9228291	1.00	1.01	M
		Average of Peak Amounts =				1.00	
						RPD = 6.69	
$ 15 DCB Decachlorobiphenyl							M
1	6.496	6.496	0.000	315616	0.0250	0.0249	M
2	6.430	6.430	0.000	2685743	0.0250	0.0260	M
						RPD = 4.41	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00007 Amount Added: 1.00 Units: mL

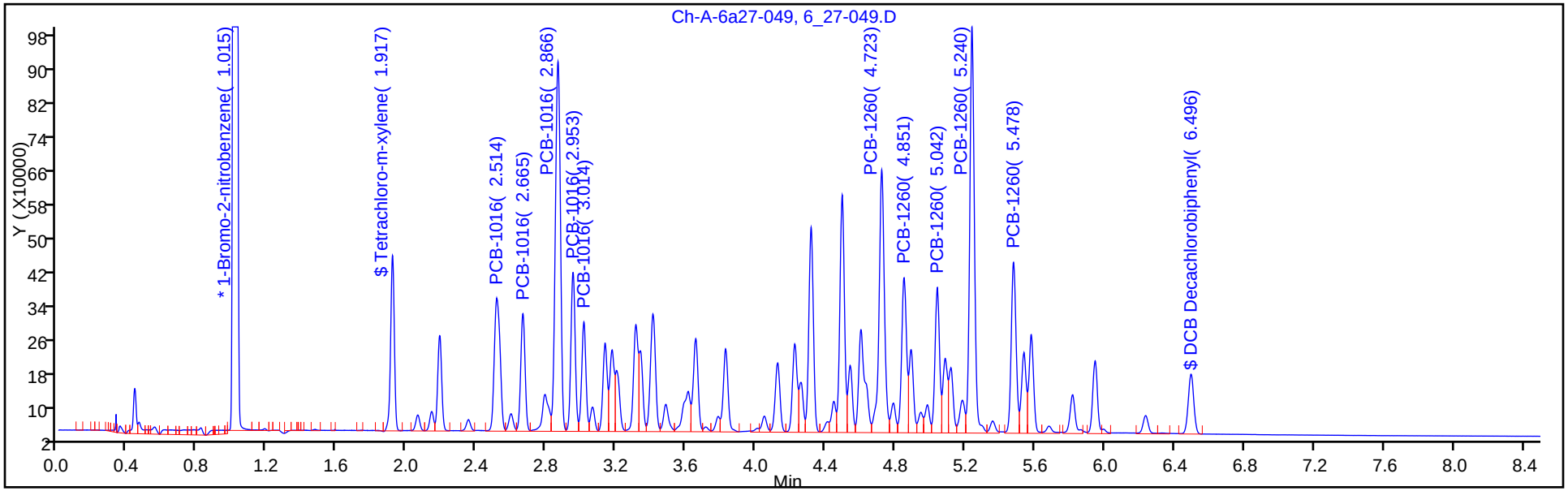
Report Date: 21-Jun-2017 17:49:44 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

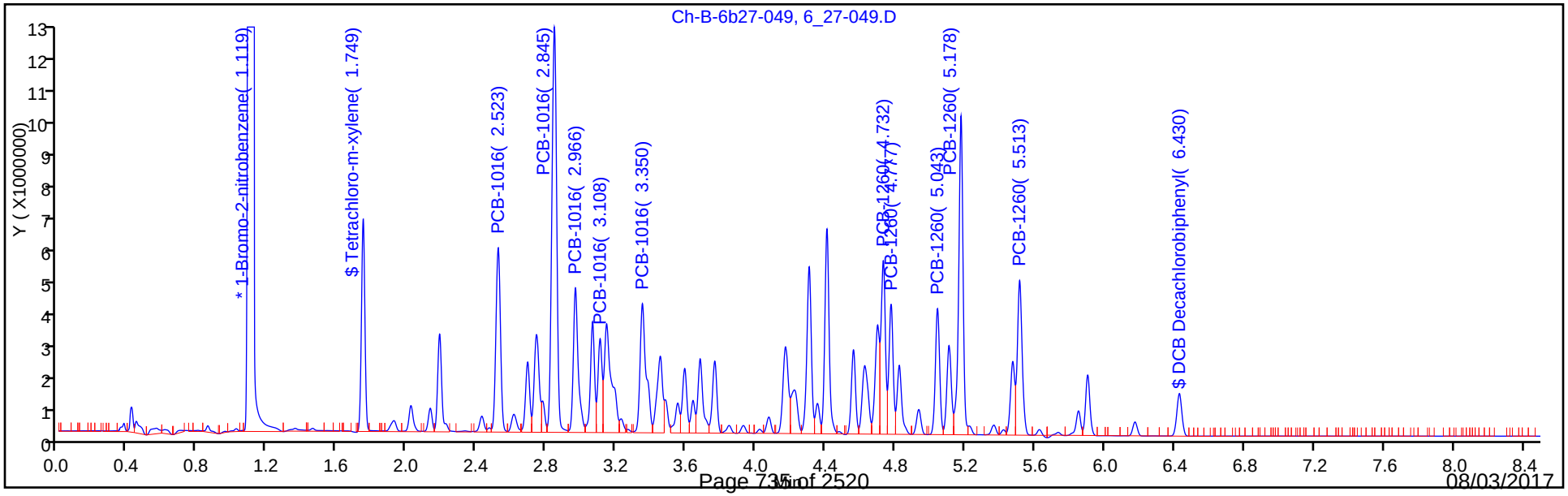
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D

Injection Date:	21-Jun-2017 11:54:18	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

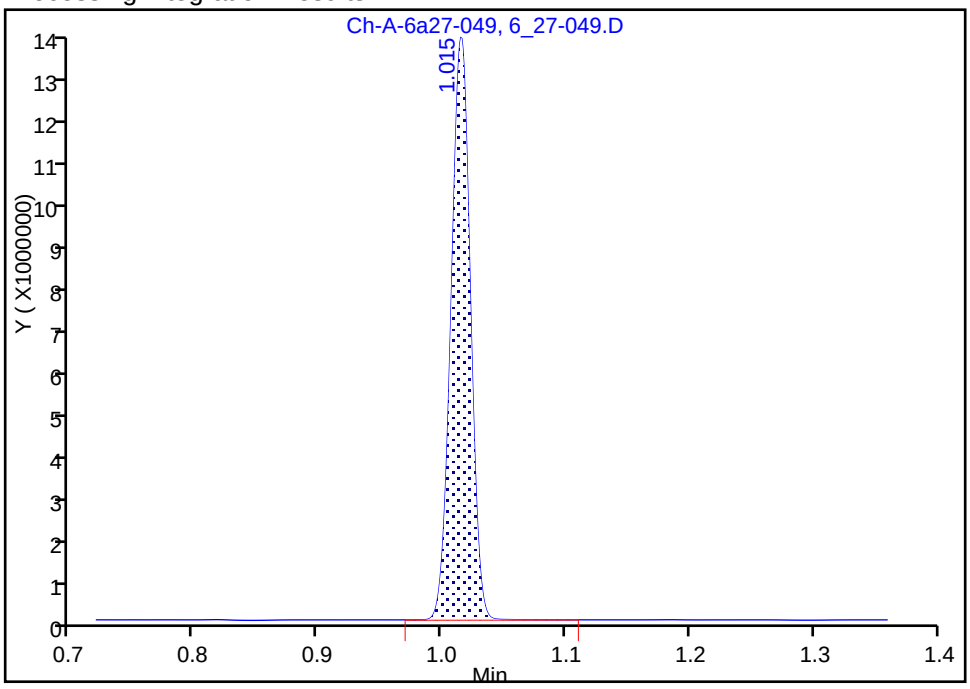
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D
Injection Date: 21-Jun-2017 11:54:18 Instrument ID: HP6890-6
Lims ID: IC 6
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

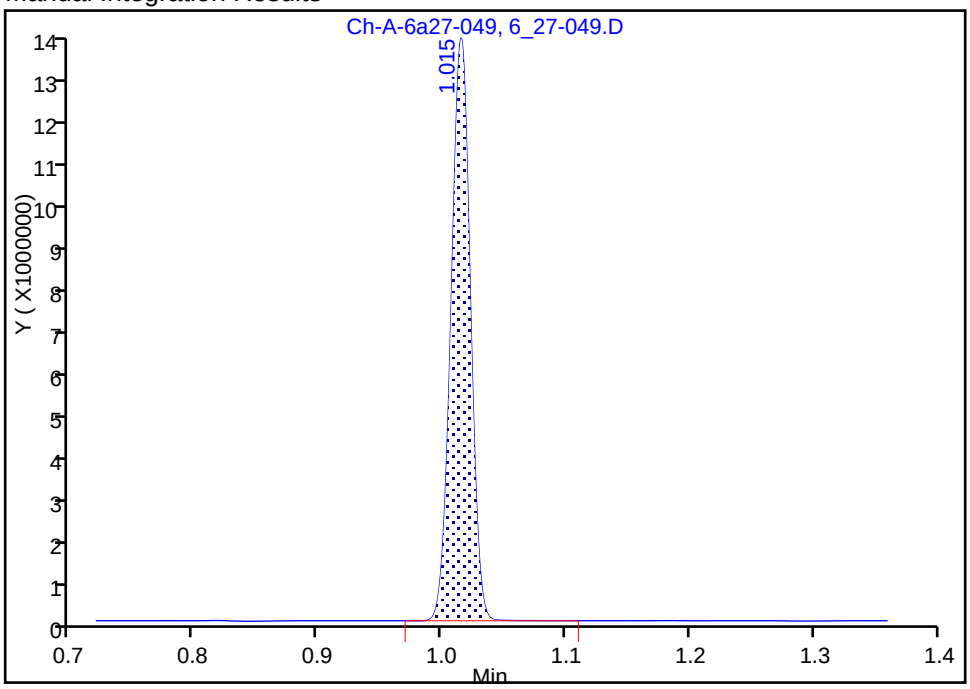
Processing Integration Results

RT: 1.02
Area: 14372815
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.02
Area: 14320970
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:09:57
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

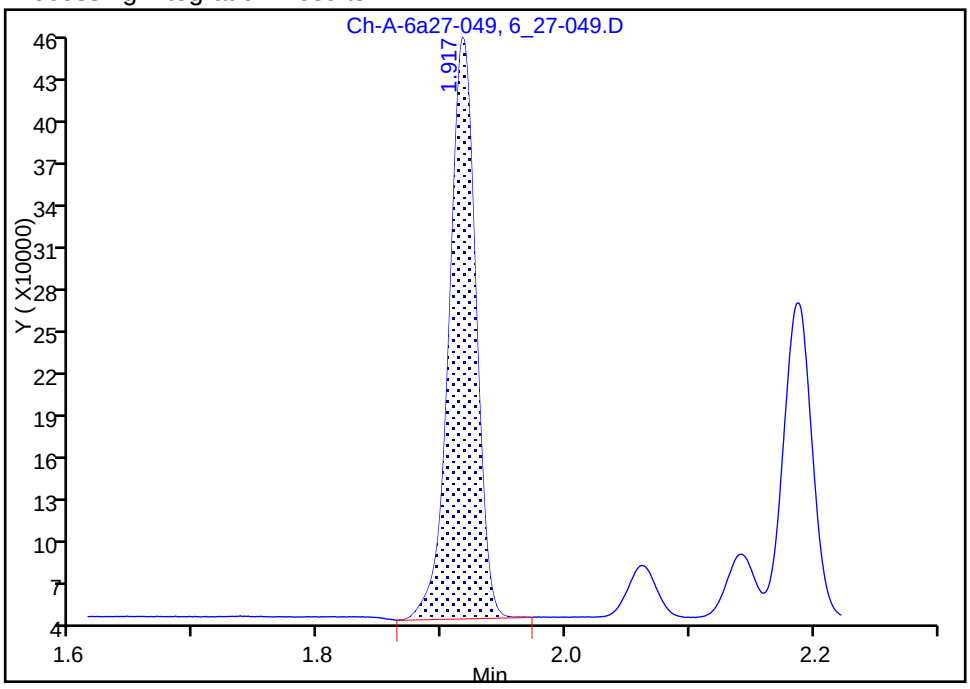
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D
Injection Date: 21-Jun-2017 11:54:18 Instrument ID: HP6890-6
Lims ID: IC 6
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

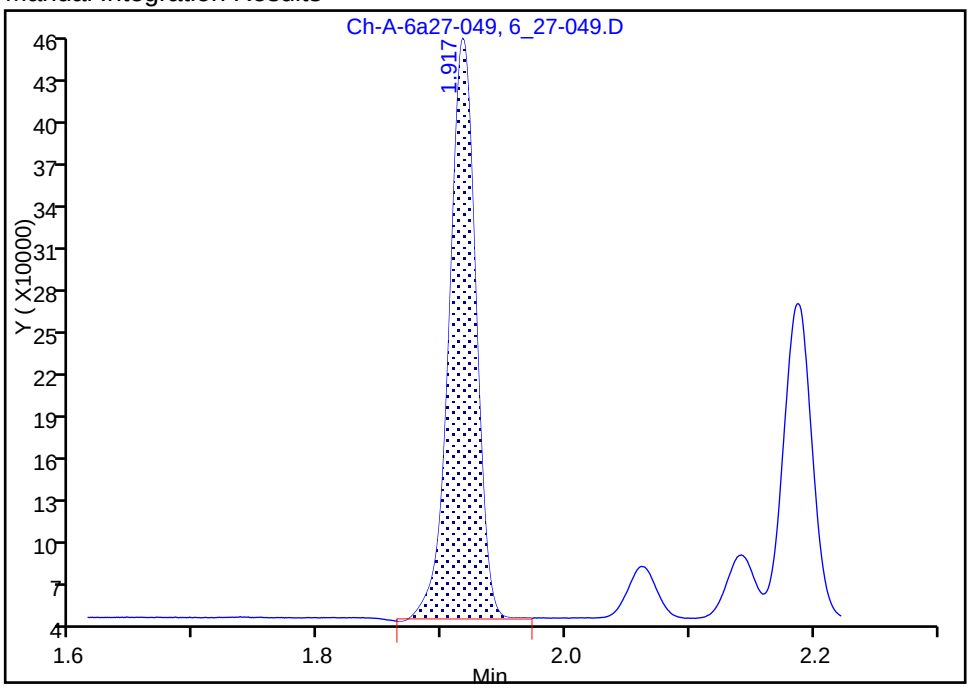
Processing Integration Results

RT: 1.92
Area: 617299
Amount: 0.024730
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 613559
Amount: 0.024879
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:09:57
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D

Injection Date: 21-Jun-2017 11:54:18 Instrument ID: HP6890-6

Lims ID: IC 6

Client ID:

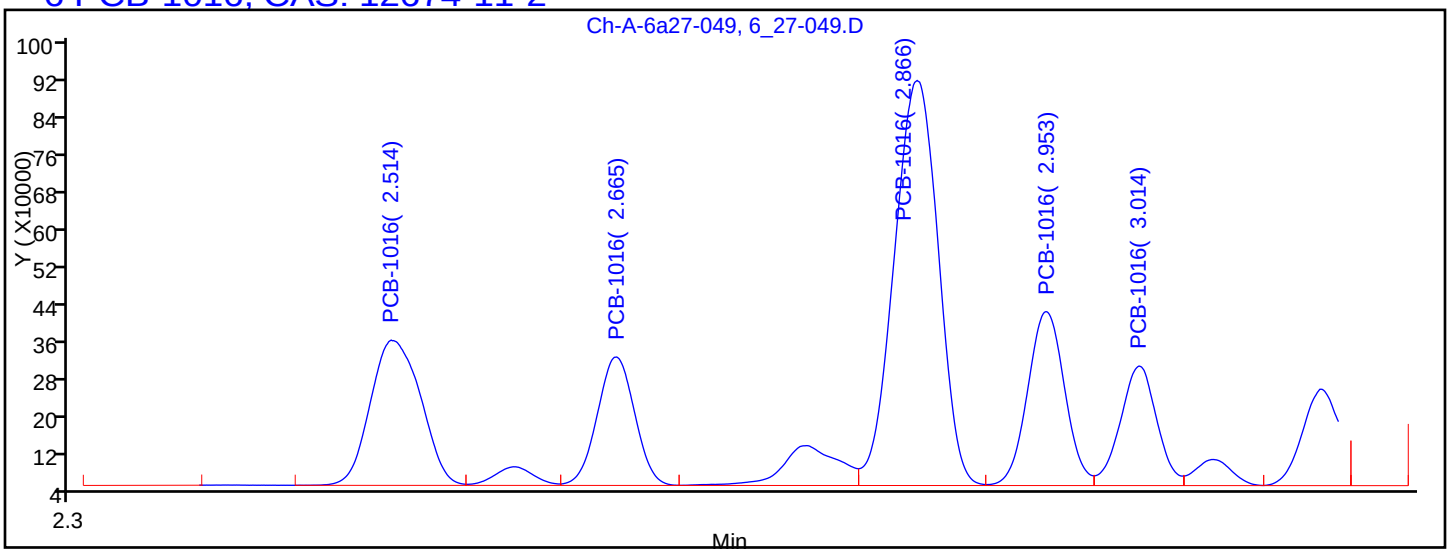
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

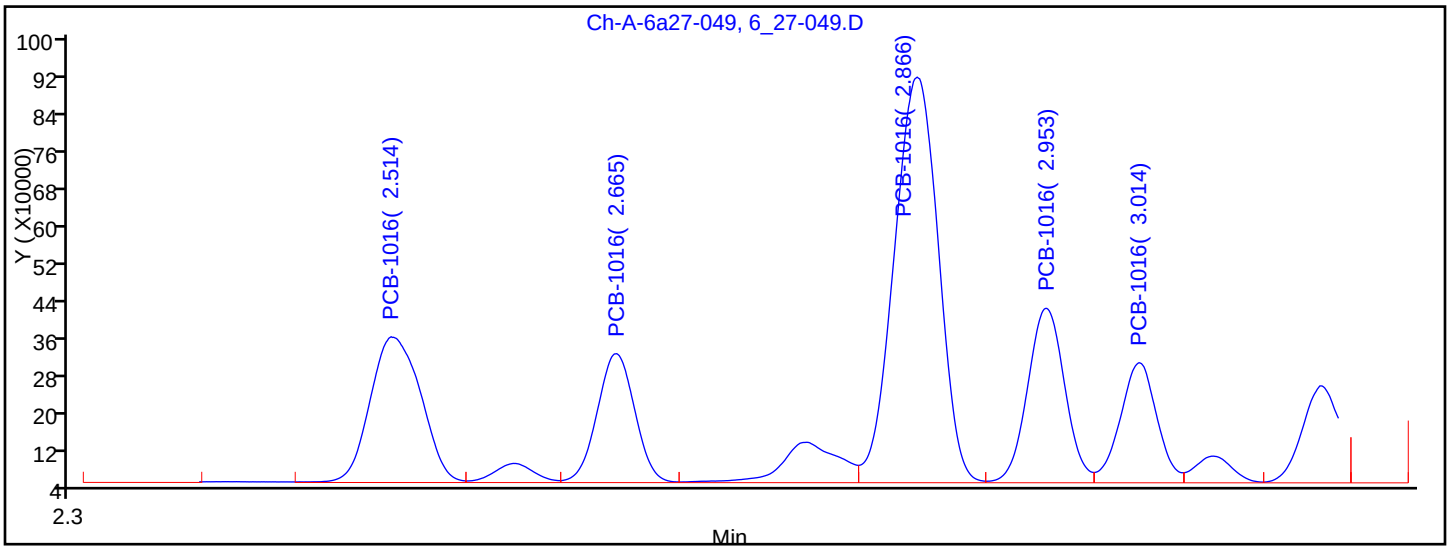
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.514	Response = 728517
2.665	Response = 478235
2.866	Response = 1788060
2.953	Response = 642223
3.014	Response = 435608



Manual Integration Results

2.514	Response = 735956	M
2.665	Response = 483566	M
2.866	Response = 1794001	M
2.953	Response = 647363	M
3.014	Response = 439910	M

Reviewer: owenj, 21-Jun-2017 16:09:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

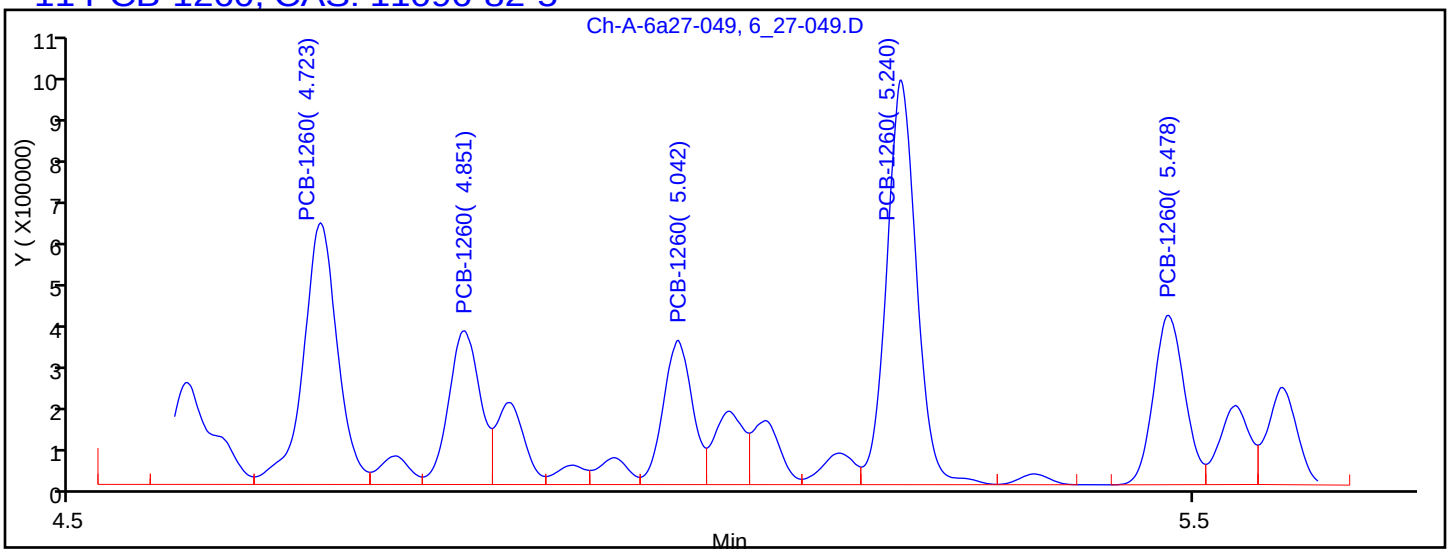
Report Date: 21-Jun-2017 17:49:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D

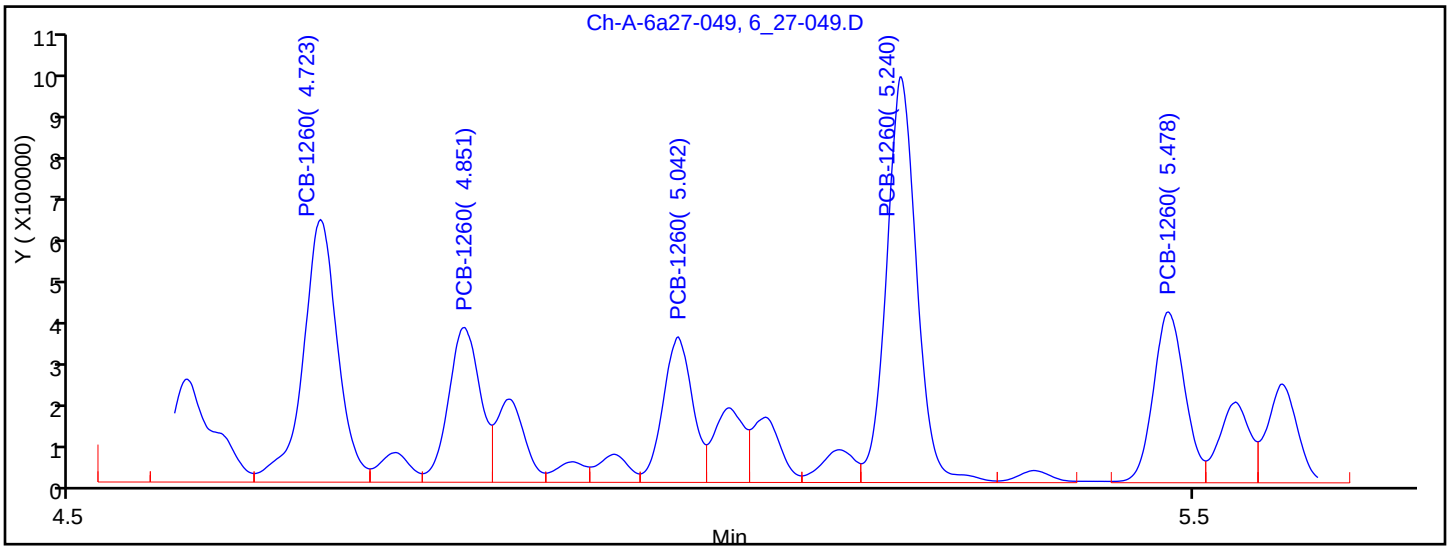
Injection Date:	21-Jun-2017 11:54:18	Instrument ID:	HP6890-6		
Lims ID:	IC 6				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.723	Response = 1313087
4.851	Response = 713226
5.042	Response = 617790
5.240	Response = 1769724
5.478	Response = 772194



Manual Integration Results

4.723	Response = 1328881	M
4.851	Response = 723212	M
5.042	Response = 627853	M
5.240	Response = 1791898	M
5.478	Response = 788786	M

Reviewer: owenj, 21-Jun-2017 17:45:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

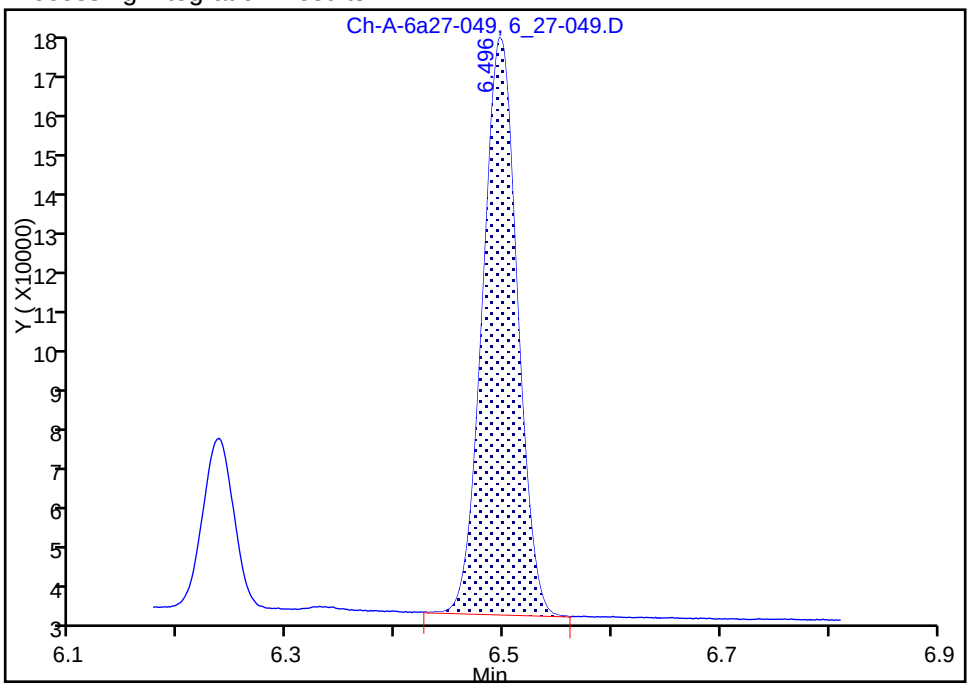
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D
Injection Date: 21-Jun-2017 11:54:18 Instrument ID: HP6890-6
Lims ID: IC 6
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

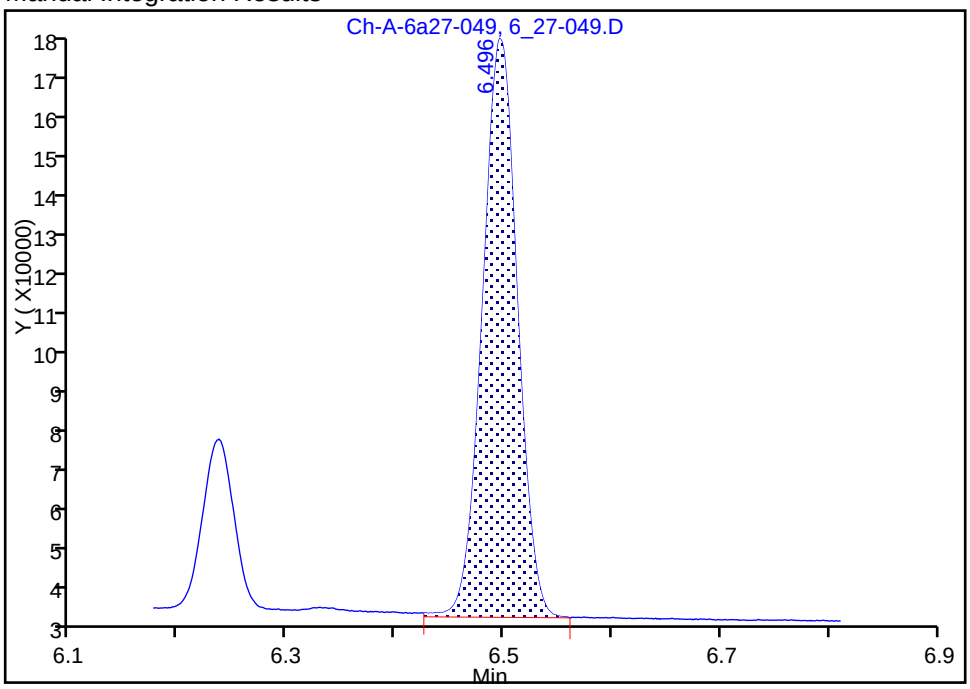
Processing Integration Results

RT: 6.50
Area: 312554
Amount: 0.024686
Amount Units: ng/uL



Manual Integration Results

RT: 6.50
Area: 315616
Amount: 0.024874
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 17:45:25
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 21-Jun-2017 12:10:09 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:49:48 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 16:04:09

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.017	1.017	0.000	13763753	0.5000	0.5000	
2	1.121	1.121	0.000	183595035	0.5000	0.5000	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	298711	0.0125	0.0126	M
2	1.749	1.749	0.000	4824342	0.0125	0.0131	M
						RPD = 3.75	
6 PCB-1016							M
1	2.516	2.516	0.000	367113	0.5000	0.5099	M
1	2.666	2.666	0.000	244159	0.5000	0.5209	M
1	2.868	2.868	0.000	893816	0.5000	0.5059	M
1	2.953	2.953	0.000	325425	0.5000	0.5126	M
1	3.015	3.015	0.000	219328	0.5000	0.5071	M
		Average of Peak Amounts =				0.5113	
2	2.523	2.523	0.000	5909200	0.5000	0.5529	M
2	2.845	2.845	0.000	12665351	0.5000	0.4943	M
2	2.966	2.966	0.000	4822591	0.5000	0.5344	M
2	3.108	3.108	0.000	2674791	0.5000	0.5333	M
2	3.351	3.351	0.000	5449823	0.5000	0.5328	M
		Average of Peak Amounts =				0.5295	
						RPD = 3.51	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.723	4.723	0.000	698790	0.5000	0.5217	M
1	4.851	4.851	0.000	386848	0.5000	0.4707	M
1	5.041	5.041	0.000	334464	0.5000	0.5268	M
1	5.241	5.241	0.000	922965	0.5000	0.5099	M
1	5.478	5.478	0.000	413752	0.5000	0.5239	M
		Average of Peak Amounts =				0.5106	
2	4.732	4.732	0.000	4778229	0.5000	0.4915	M
2	4.776	4.776	0.000	3594361	0.5000	0.5043	M
2	5.042	5.042	0.000	3573999	0.5000	0.5037	M
2	5.177	5.177	0.000	8838477	0.5000	0.4863	M
2	5.513	5.513	0.000	4763052	0.5000	0.4951	M
		Average of Peak Amounts =				0.4962	
						RPD = 2.86	
$ 15 DCB Decachlorobiphenyl							M
1	6.497	6.497	0.000	160277	0.0125	0.0131	M
2	6.428	6.428	0.000	1474140	0.0125	0.0134	
						RPD = 2.51	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00006 Amount Added: 1.00 Units: mL

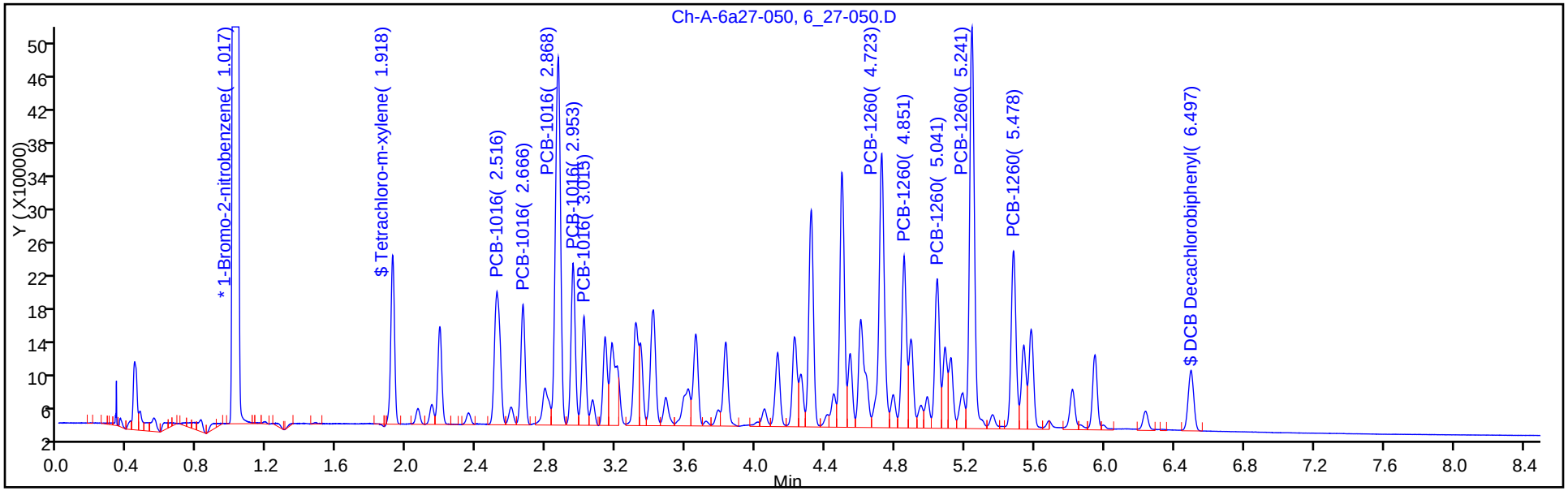
Report Date: 21-Jun-2017 17:49:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

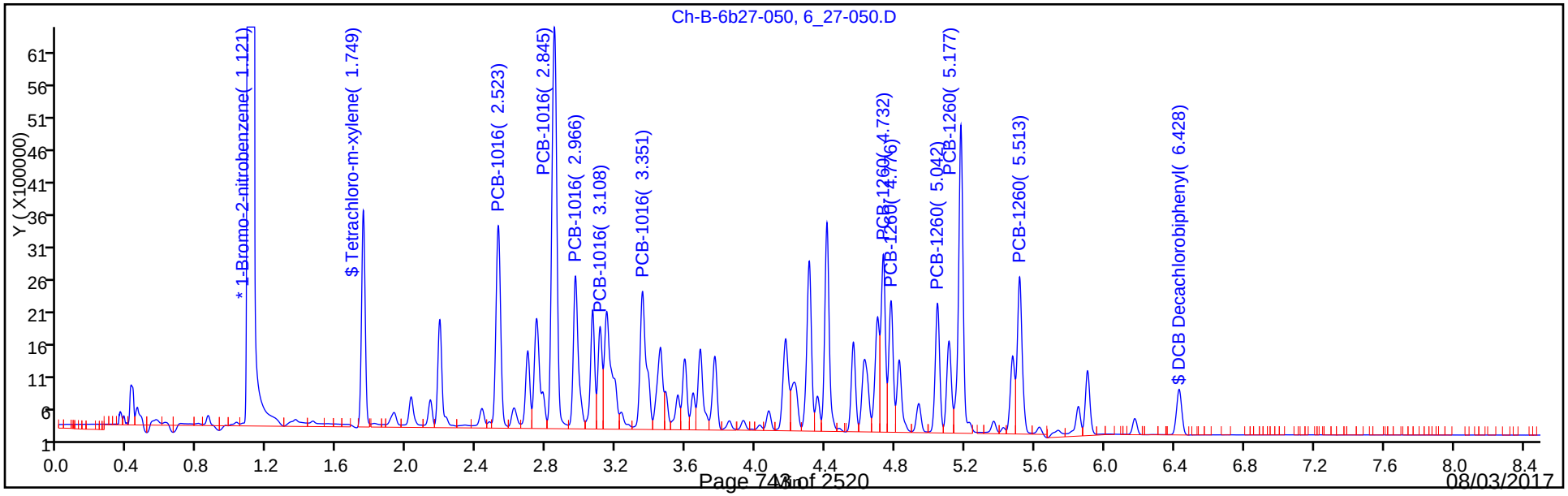
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D

Injection Date:	21-Jun-2017 12:10:09	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

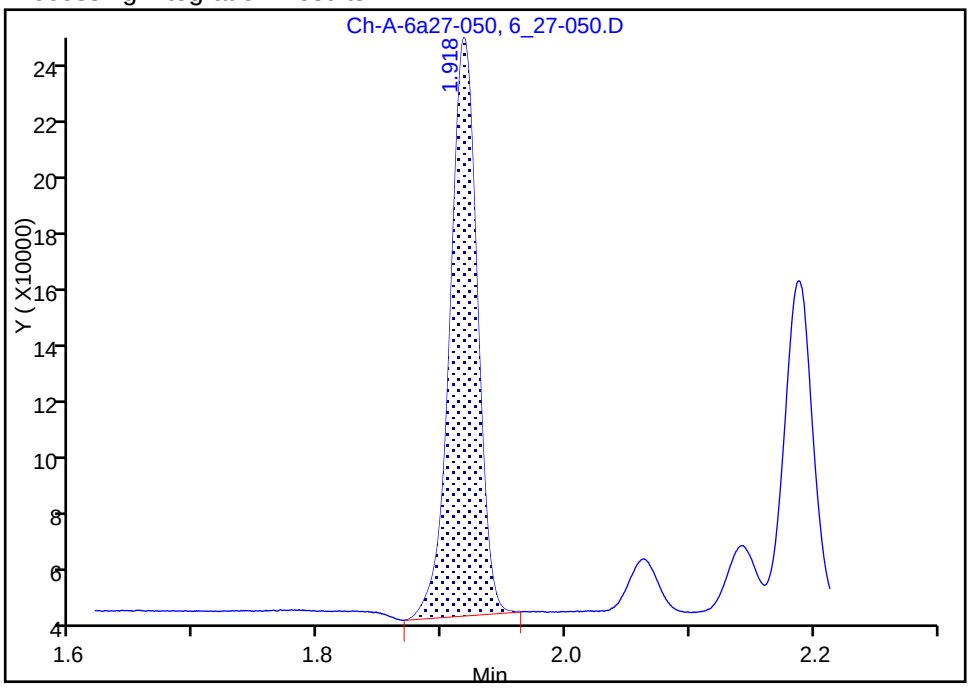
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D
Injection Date: 21-Jun-2017 12:10:09 Instrument ID: HP6890-6
Lims ID: ICIS 5
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

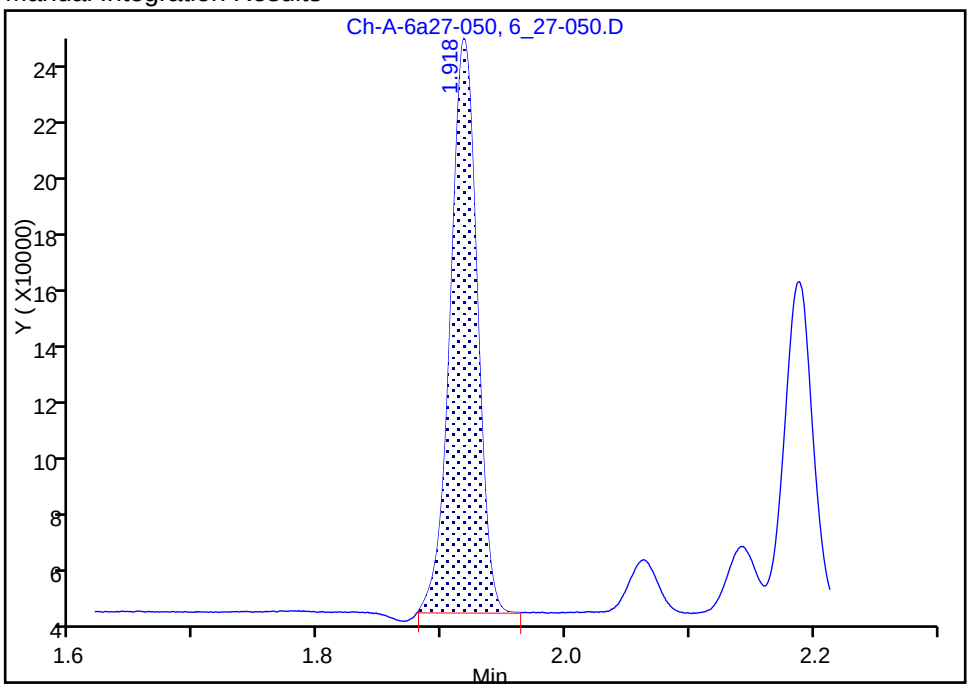
Processing Integration Results

RT: 1.92
Area: 305364
Amount: 0.012542
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 298711
Amount: 0.012613
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:09:28
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D

Injection Date: 21-Jun-2017 12:10:09 Instrument ID: HP6890-6

Lims ID: ICIS 5

Client ID:

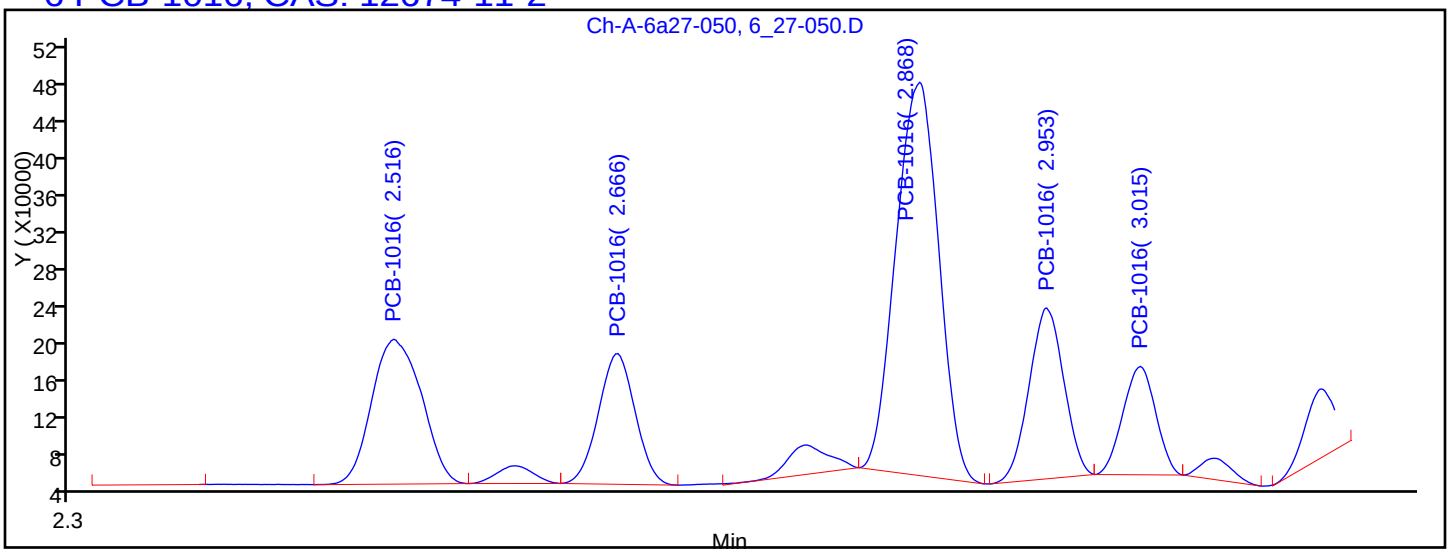
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

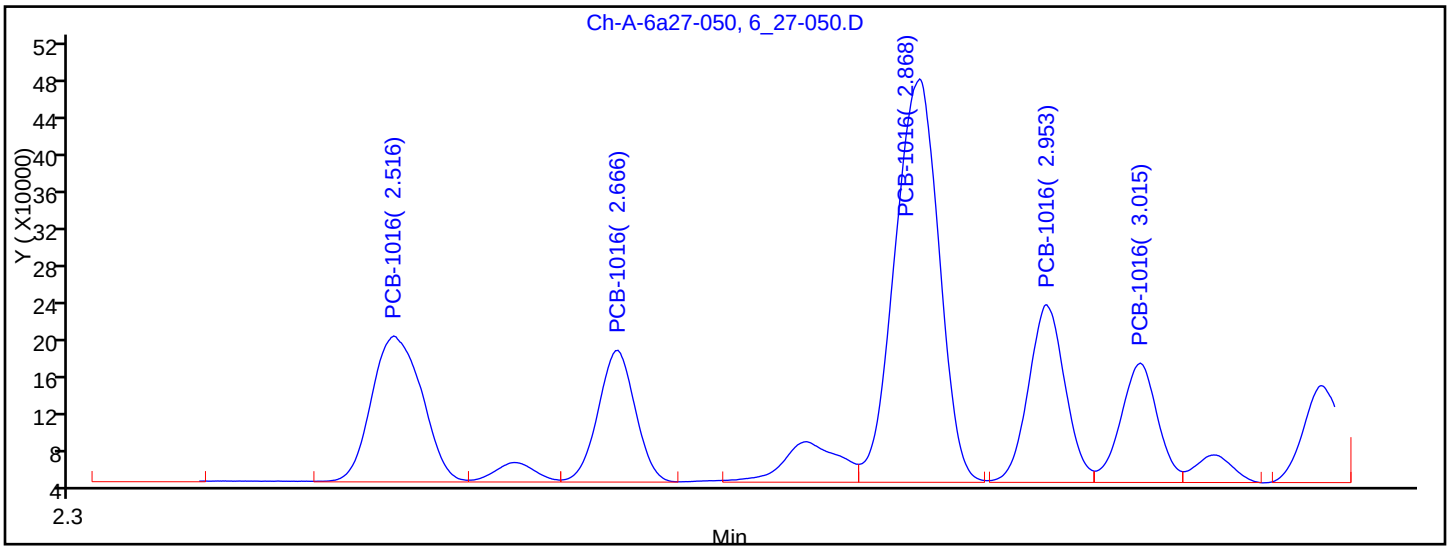
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.516	Response = 360064
2.666	Response = 238864
2.868	Response = 840910
2.953	Response = 296544
3.015	Response = 177509



Manual Integration Results

2.516	Response = 367113	M
2.666	Response = 244159	M
2.868	Response = 893816	M
2.953	Response = 325425	M
3.015	Response = 219328	M

Reviewer: owenj, 21-Jun-2017 16:09:28

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

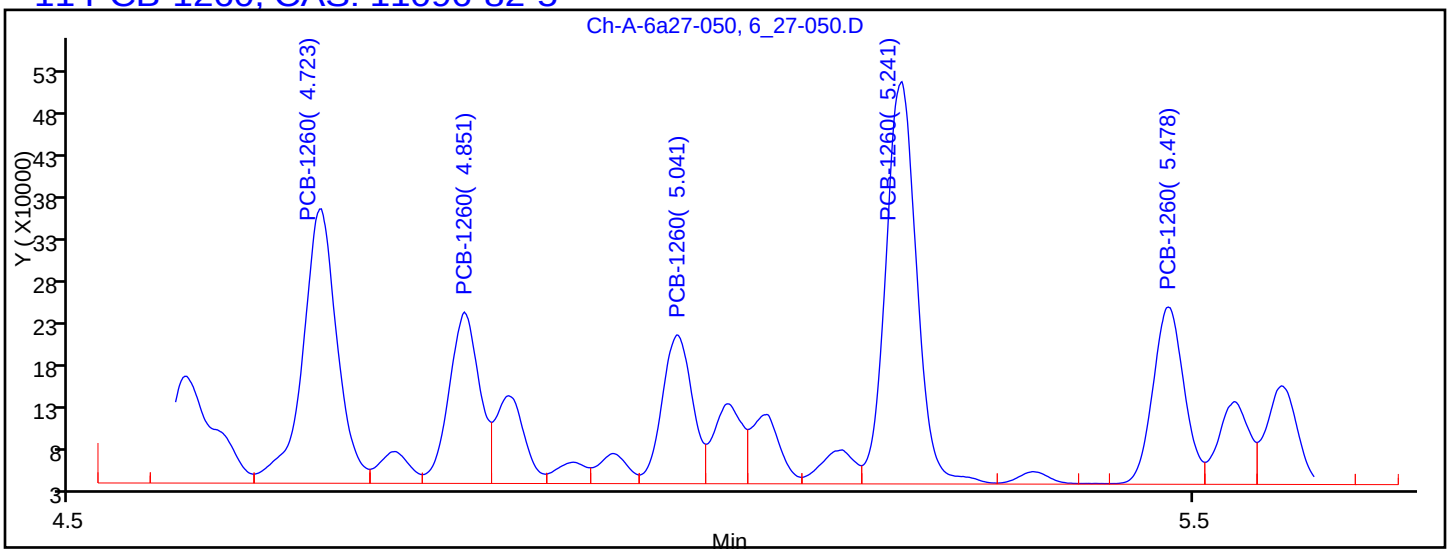
Report Date: 21-Jun-2017 17:49:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D

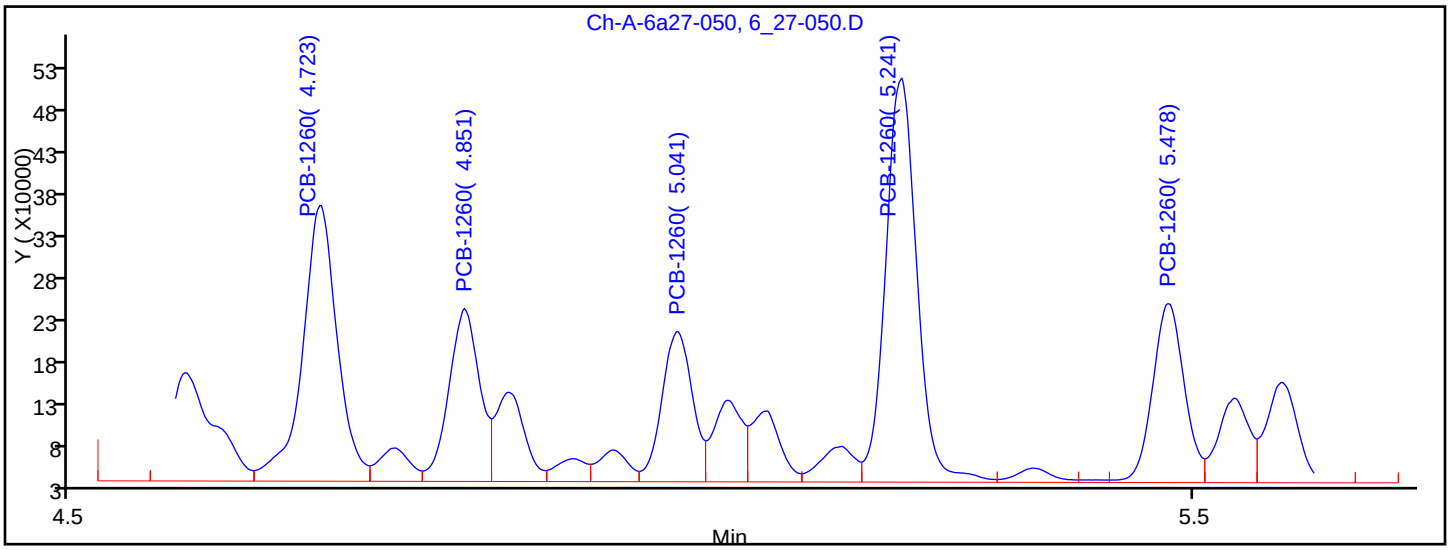
Injection Date:	21-Jun-2017 12:10:09	Instrument ID:	HP6890-6		
Lims ID:	ICIS 5				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.723	Response = 688014
4.851	Response = 380173
5.041	Response = 327716
5.241	Response = 908335
5.478	Response = 402935



Manual Integration Results

4.723	Response = 698790	M
4.851	Response = 386848	M
5.041	Response = 334464	M
5.241	Response = 922965	M
5.478	Response = 413752	M

Reviewer: owenj, 21-Jun-2017 17:45:46

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

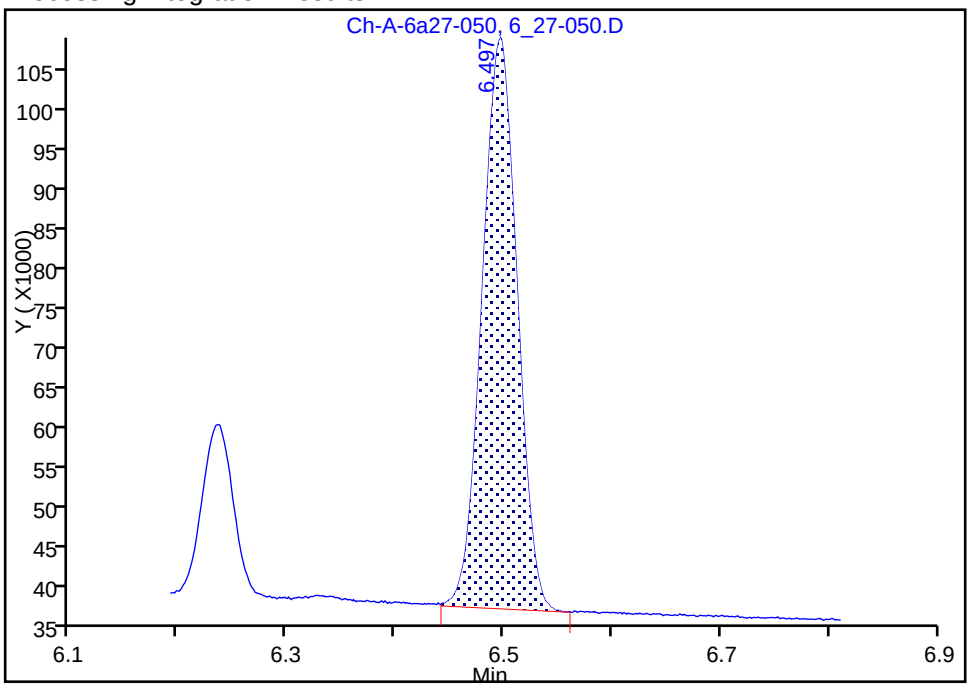
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D
Injection Date: 21-Jun-2017 12:10:09 Instrument ID: HP6890-6
Lims ID: ICIS 5
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

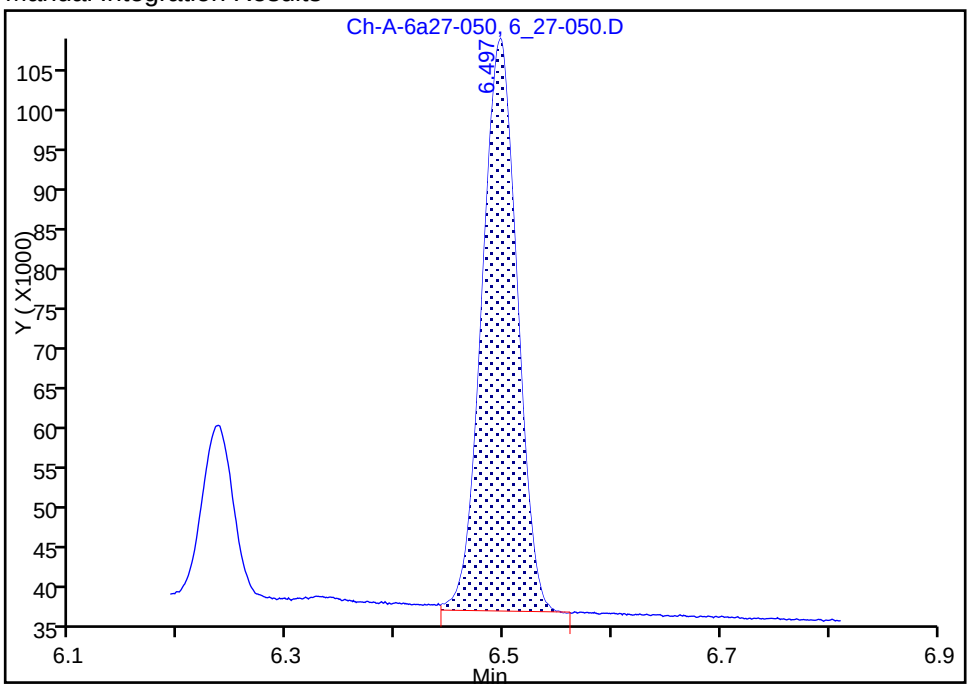
Processing Integration Results

RT: 6.50
Area: 159287
Amount: 0.013021
Amount Units: ng/uL



Manual Integration Results

RT: 6.50
Area: 160277
Amount: 0.013092
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 17:45:46
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-Jun-2017 12:25:58 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:49:53 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 13:40:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.017	1.017	0.000	14100191	0.5000	0.5000	M
2	1.121	1.121	0.000	181326251	0.5000	0.5000	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	111418	0.005000	0.004605	M
2	1.749	1.749	0.000	1952426	0.005000	0.005169	M
						RPD = 11.53	
6 PCB-1016							M
1	2.515	2.516	-0.001	139382	0.2000	0.1890	M
1	2.666	2.666	0.000	97155	0.2000	0.1949	M
1	2.867	2.868	-0.001	349268	0.2000	0.1910	M
1	2.952	2.953	0.000	130990	0.2000	0.1938	M
1	3.014	3.015	-0.001	88073	0.2000	0.1913	M
		Average of Peak Amounts =				0.1920	
2	2.523	2.523	0.000	2615675	0.2000	0.2280	M
2	2.845	2.845	0.000	5309741	0.2000	0.2001	M
2	2.966	2.966	0.000	2108872	0.2000	0.2212	M
2	3.107	3.108	-0.001	1175608	0.2000	0.2210	M
2	3.349	3.351	-0.002	2446979	0.2000	0.2259	M
		Average of Peak Amounts =				0.2192	
						RPD = 13.25	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.723	4.723	-0.001	275524	0.2000	0.1968	M
1	4.849	4.851	-0.002	155691	0.2000	0.1849	M
1	5.041	5.041	0.000	135835	0.2000	0.2029	M
1	5.239	5.241	-0.002	363959	0.2000	0.1945	M
1	5.478	5.478	0.000	167198	0.2000	0.2018	M
		Average of Peak Amounts =				0.1962	
2	4.732	4.732	0.000	2039725	0.2000	0.2041	M
2	4.775	4.776	-0.001	1563184	0.2000	0.2101	M
2	5.043	5.042	0.000	1575351	0.2000	0.2143	M
2	5.177	5.177	0.000	3566953	0.2000	0.1946	M
2	5.513	5.513	0.000	1975408	0.2000	0.1999	M
		Average of Peak Amounts =				0.2046	
						RPD = 4.21	
$ 15 DCB Decachlorobiphenyl							
1	6.497	6.497	0.000	63195	0.005000	0.004972	
2	6.428	6.428	0.000	666458	0.005000	0.005711	
						RPD = 13.84	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00006 Amount Added: 1.00 Units: mL

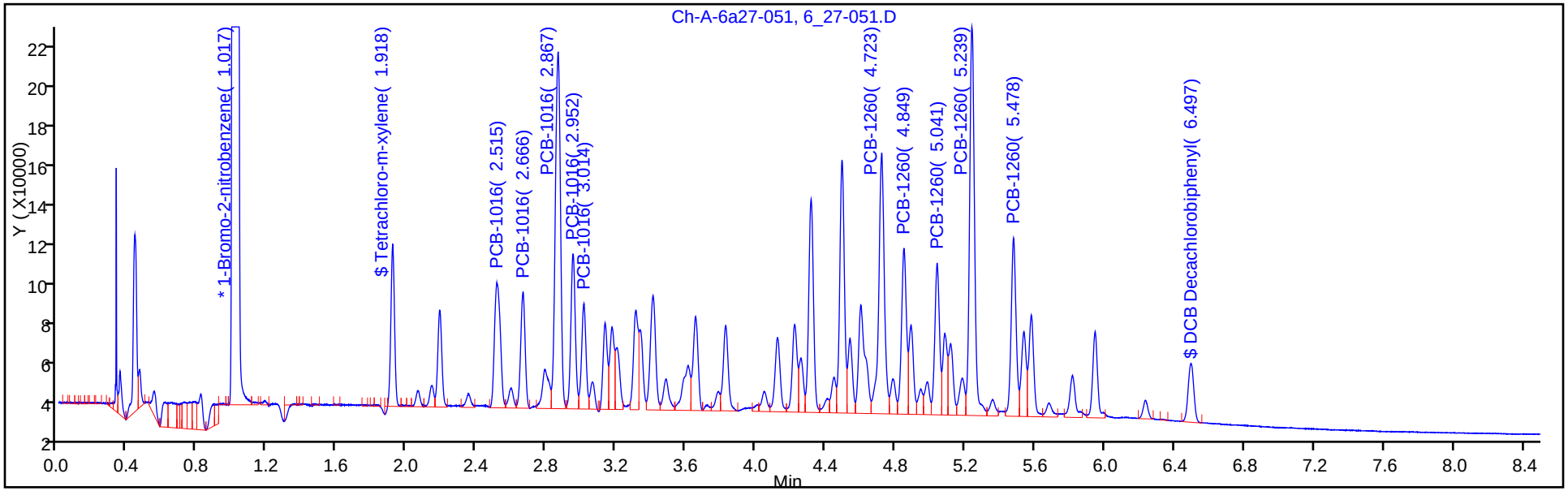
Report Date: 21-Jun-2017 17:49:53 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

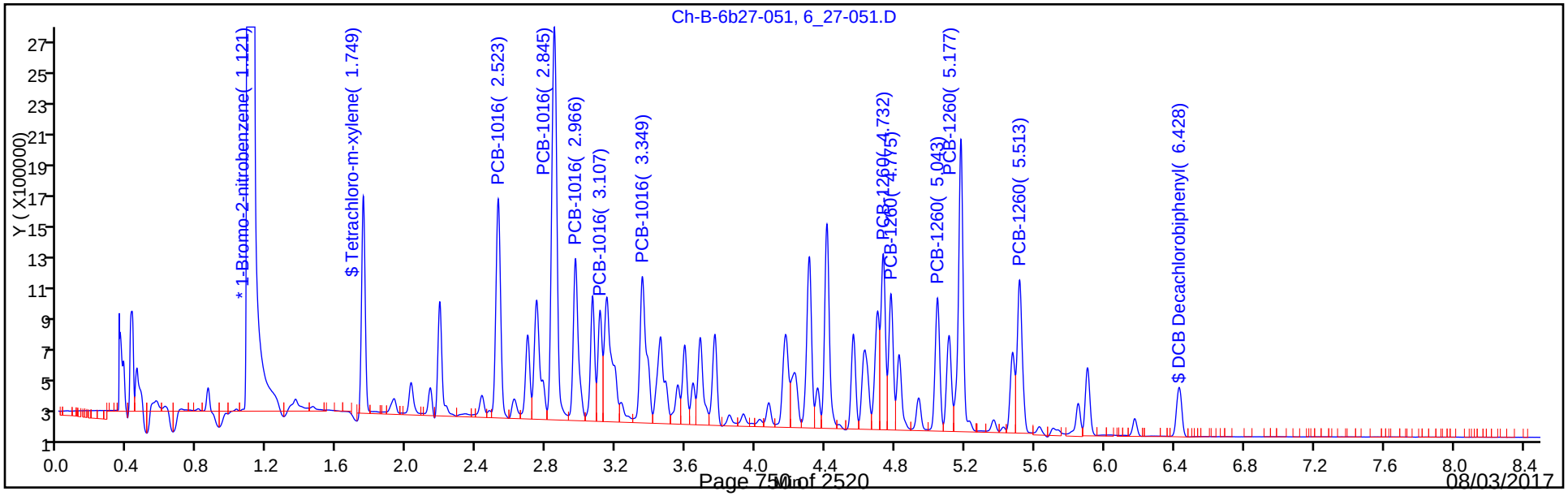
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D

Injection Date:	21-Jun-2017 12:25:58	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

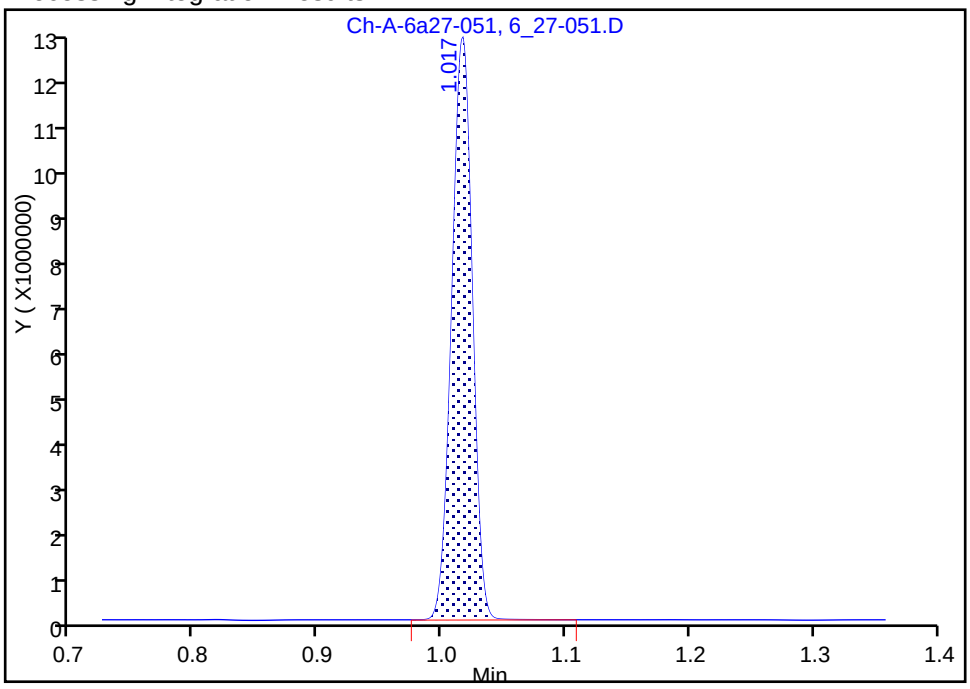
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D
Injection Date: 21-Jun-2017 12:25:58 Instrument ID: HP6890-6
Lims ID: IC 4
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

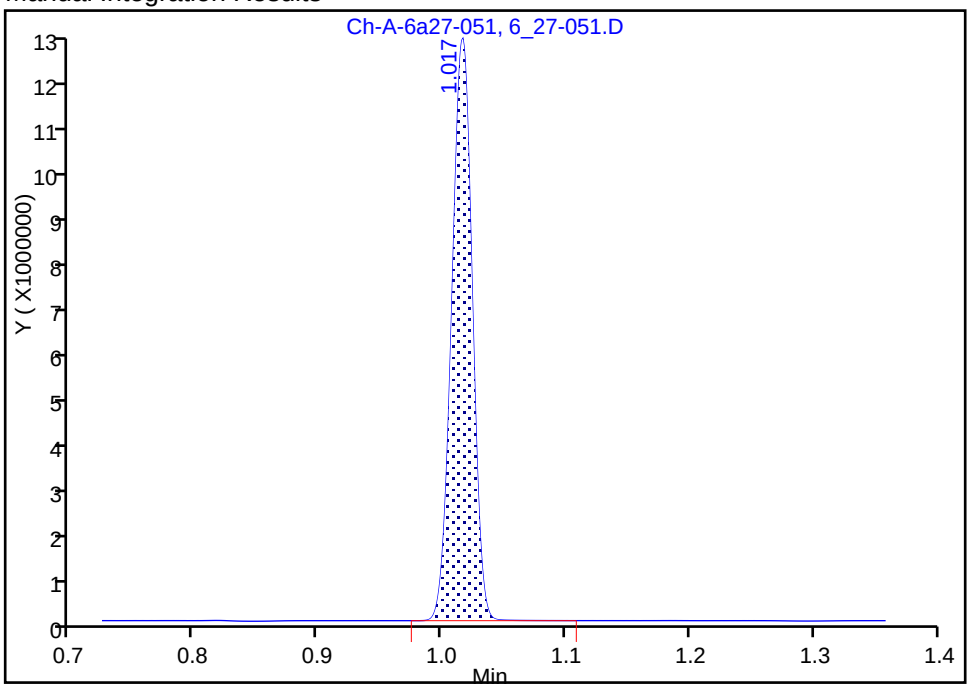
Processing Integration Results

RT: 1.02
Area: 14129143
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.02
Area: 14100191
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:04:26
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

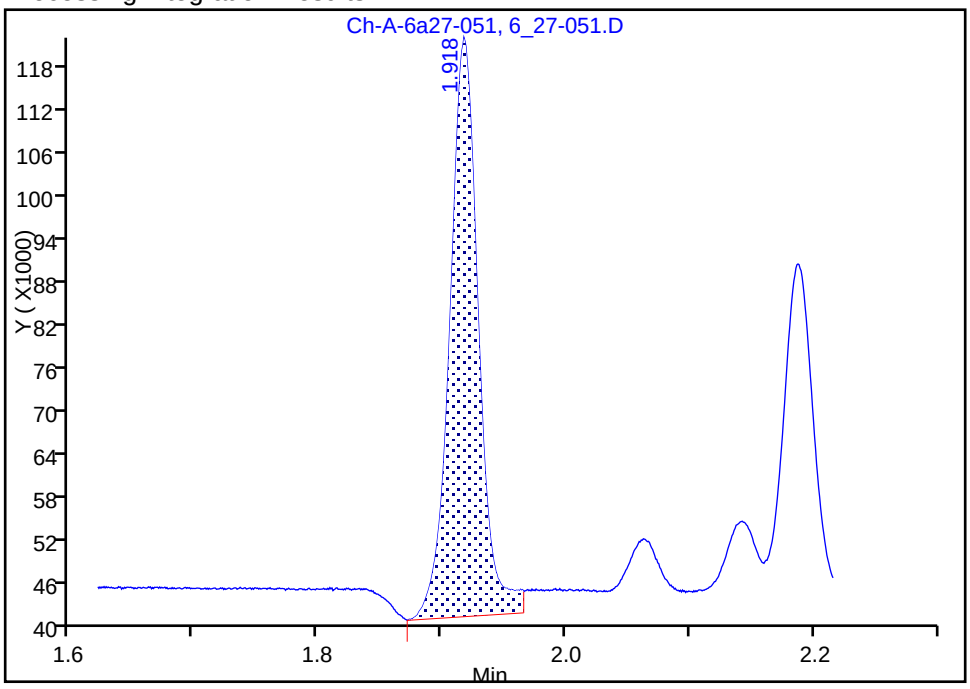
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D
Injection Date: 21-Jun-2017 12:25:58 Instrument ID: HP6890-6
Lims ID: IC 4
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

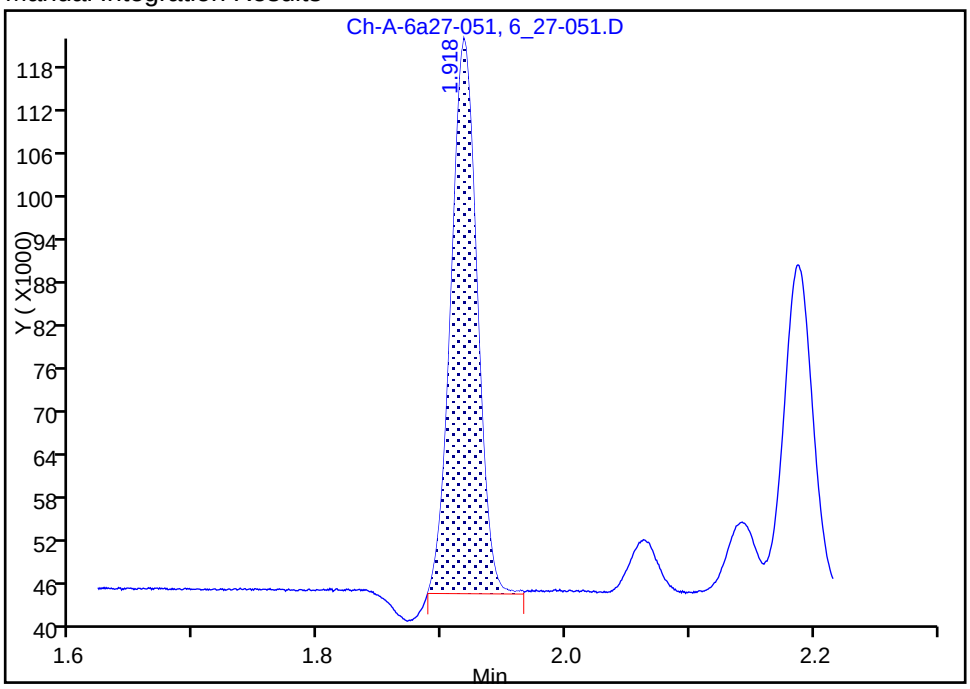
Processing Integration Results

RT: 1.92
Area: 127294
Amount: 0.004824
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 111418
Amount: 0.004605
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:24:26
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:53 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D

Injection Date: 21-Jun-2017 12:25:58 Instrument ID: HP6890-6

Lims ID: IC 4

Client ID:

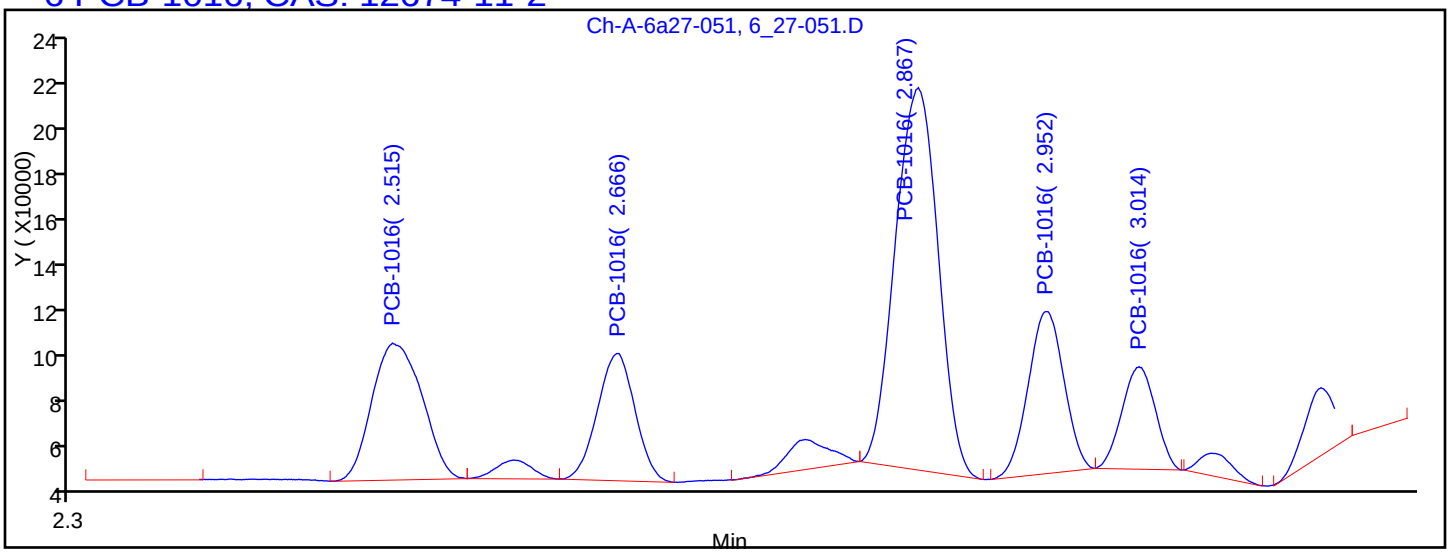
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

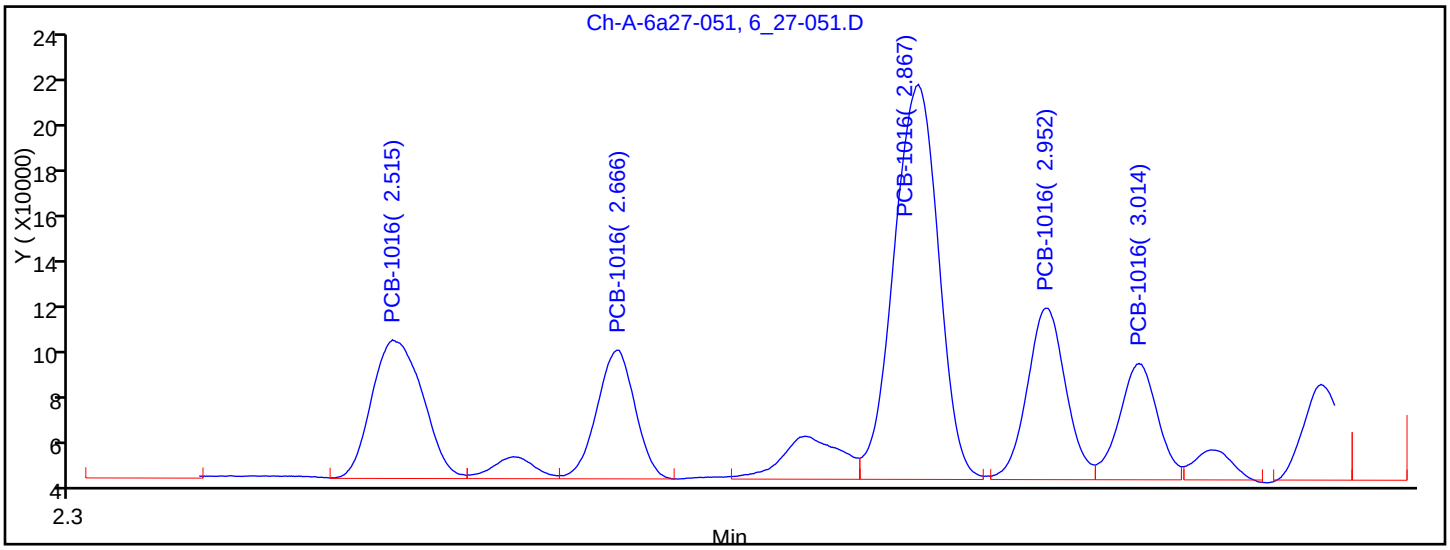
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.515	Response = 135199
2.666	Response = 94408
2.867	Response = 323689
2.952	Response = 115087
3.014	Response = 67718



Manual Integration Results

2.515	Response = 139382	M
2.666	Response = 97155	M
2.867	Response = 349268	M
2.952	Response = 130990	M
3.014	Response = 88073	M

Reviewer: owenj, 21-Jun-2017 16:24:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

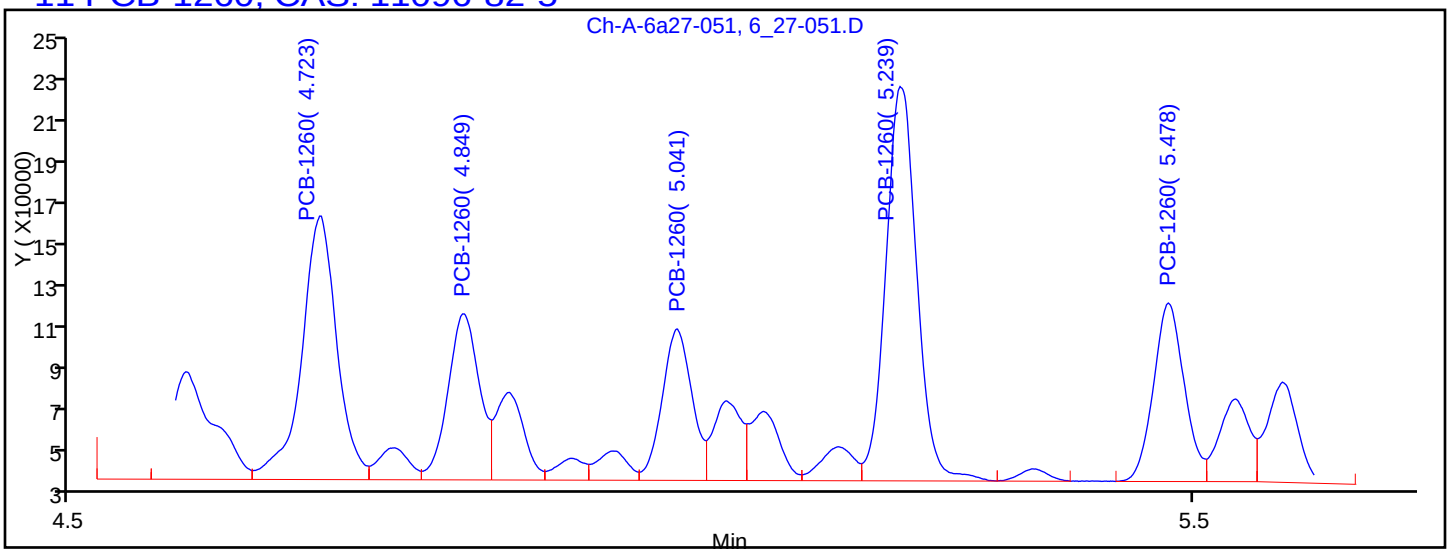
Report Date: 21-Jun-2017 17:49:53 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D

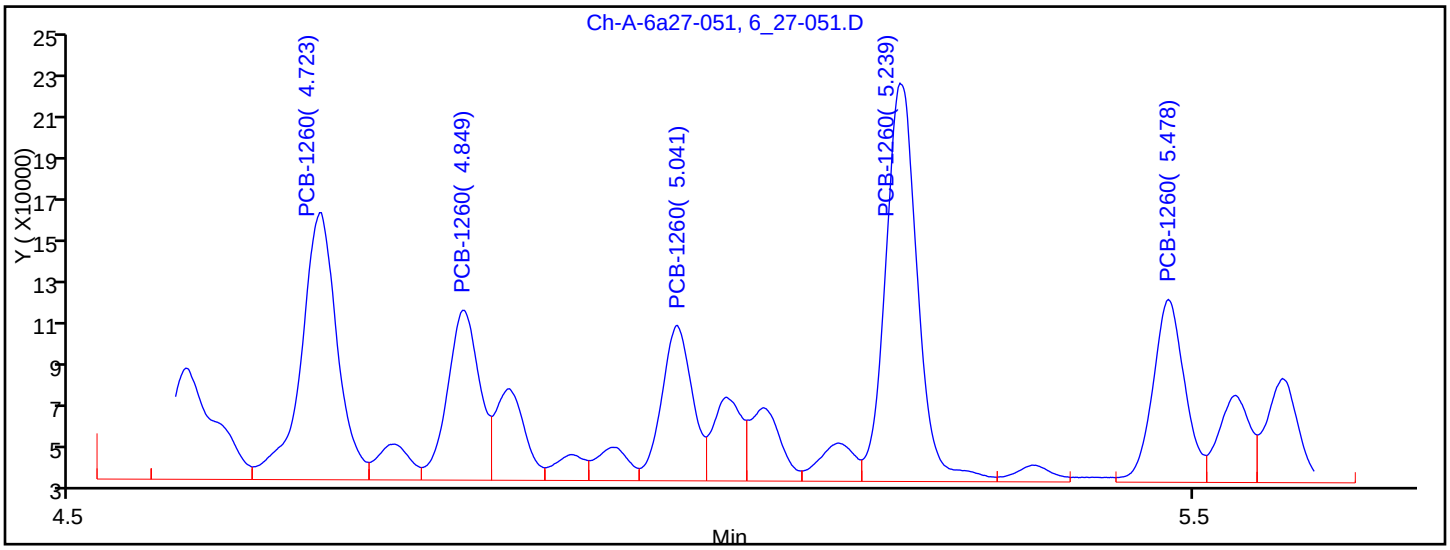
Injection Date:	21-Jun-2017 12:25:58	Instrument ID:	HP6890-6		
Lims ID:	IC 4				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.723	Response = 264411
4.849	Response = 148824
5.041	Response = 128962
5.239	Response = 349452
5.478	Response = 157214



Manual Integration Results

4.723	Response = 275524	M
4.849	Response = 155691	M
5.041	Response = 135835	M
5.239	Response = 363959	M
5.478	Response = 167198	M

Reviewer: owenj, 21-Jun-2017 17:46:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 21-Jun-2017 12:41:51 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:49:57 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 13:40:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.017	1.017	0.000	13689158	0.5000	0.5000	M
2	1.121	1.121	0.000	183299744	0.5000	0.5000	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	52240	0.002500	0.002235	M
2	1.749	1.749	0.000	1021361	0.002500	0.002514	M
						RPD = 11.76	
6 PCB-1016							M
1	2.518	2.516	0.002	68344	0.1000	0.0954	M
1	2.664	2.666	-0.002	48077	0.1000	0.0934	M
1	2.865	2.868	-0.003	167813	0.1000	0.0929	M
1	2.952	2.953	0.000	65251	0.1000	0.0933	M
1	3.015	3.015	0.000	44395	0.1000	0.0934	M
		Average of Peak Amounts =				0.0937	
2	2.523	2.523	-0.001	1455185	0.1000	0.1094	M
2	2.846	2.845	0.001	2849445	0.1000	0.0983	M
2	2.967	2.966	0.001	1182495	0.1000	0.1104	M
2	3.108	3.108	0.000	654695	0.1000	0.1085	M
2	3.350	3.351	-0.001	1377773	0.1000	0.1125	M
		Average of Peak Amounts =				0.1078	
						RPD = 14.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.722	4.723	-0.001	138714	0.1000	0.0989	M
1	4.851	4.851	0.000	80101	0.1000	0.0980	M
1	5.042	5.041	0.001	71008	0.1000	0.1047	M
1	5.240	5.241	-0.001	184361	0.1000	0.1001	M
1	5.480	5.478	0.002	86595	0.1000	0.1039	M
		Average of Peak Amounts =				0.1011	
2	4.732	4.732	0.000	1060909	0.1000	0.0979	M
2	4.776	4.776	0.000	844546	0.1000	0.1023	M
2	5.042	5.042	0.000	839547	0.1000	0.1040	M
2	5.177	5.177	0.000	1768177	0.1000	0.0919	M
2	5.513	5.513	0.000	1030757	0.1000	0.0965	M
		Average of Peak Amounts =				0.0985	
						RPD = 2.58	
$ 15 DCB Decachlorobiphenyl							
1	6.498	6.497	0.001	31377	0.002500	0.002489	
2	6.428	6.428	0.000	364197	0.002500	0.002719	
						RPD = 8.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00007 Amount Added: 1.00 Units: mL

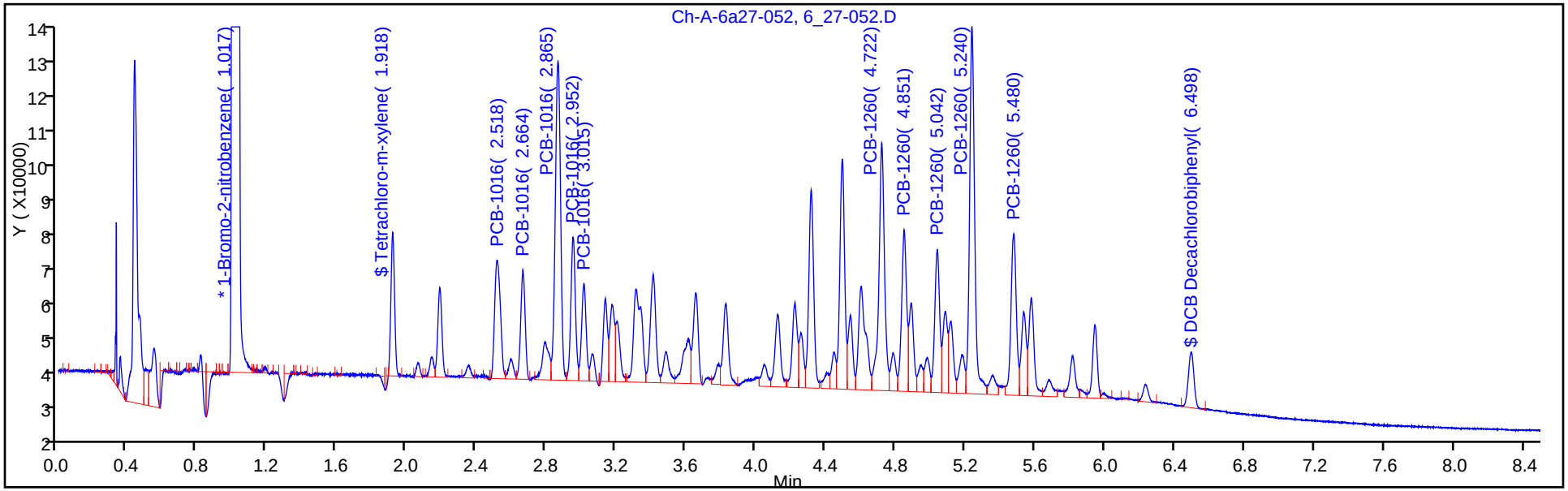
Report Date: 21-Jun-2017 17:49:58 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

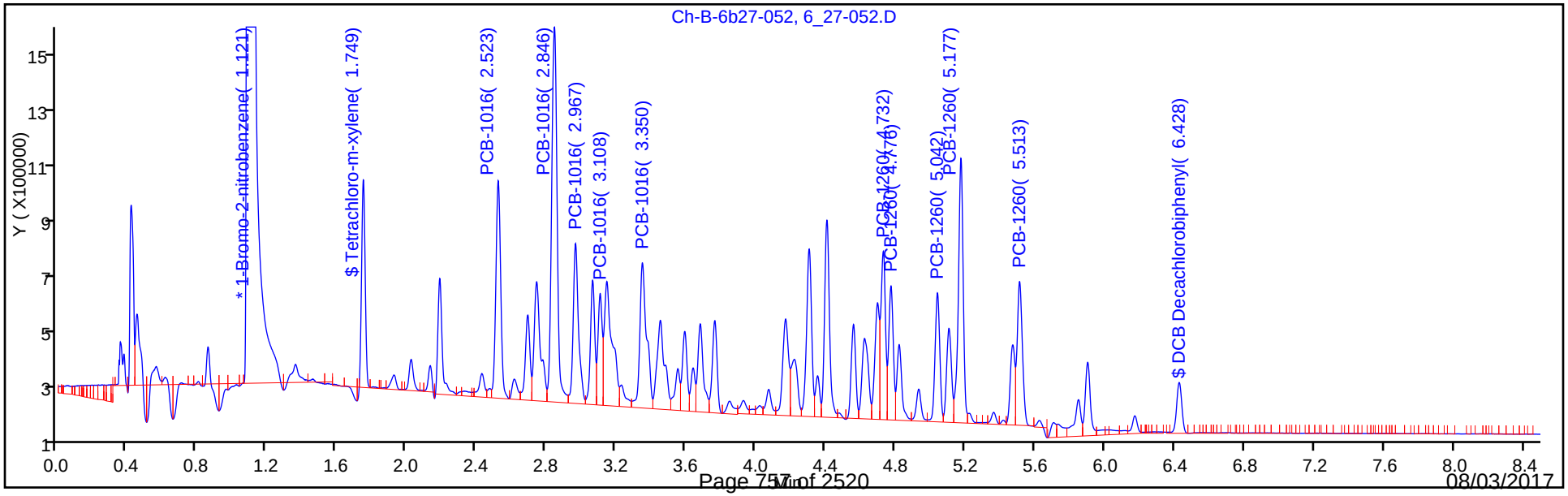
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D

Injection Date:	21-Jun-2017 12:41:51	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

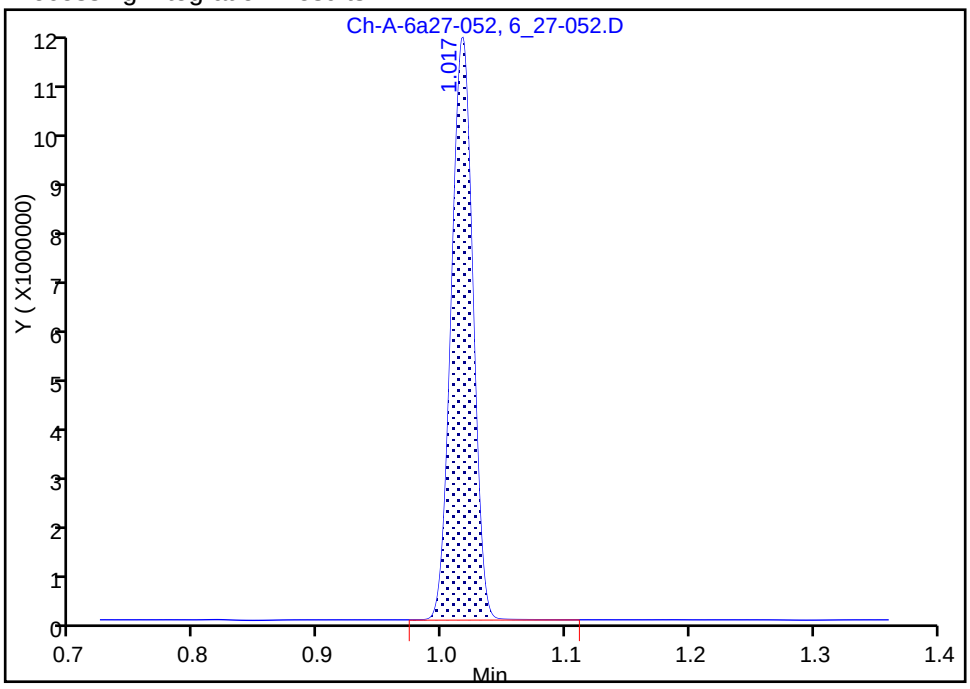
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D
Injection Date: 21-Jun-2017 12:41:51 Instrument ID: HP6890-6
Lims ID: IC 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

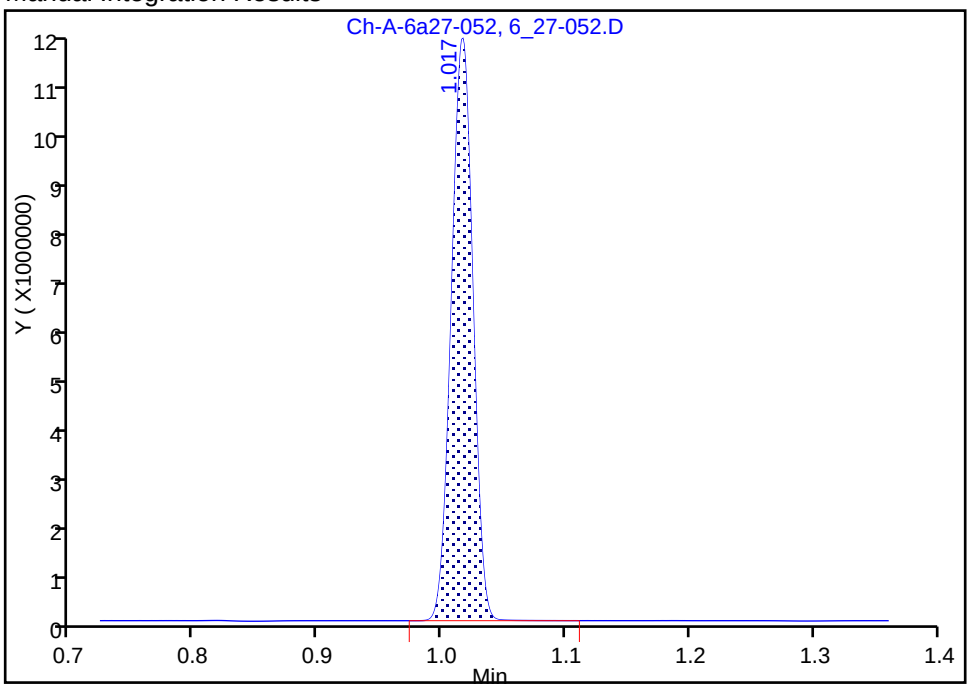
Processing Integration Results

RT: 1.02
Area: 13730544
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.02
Area: 13689158
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:05:59
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

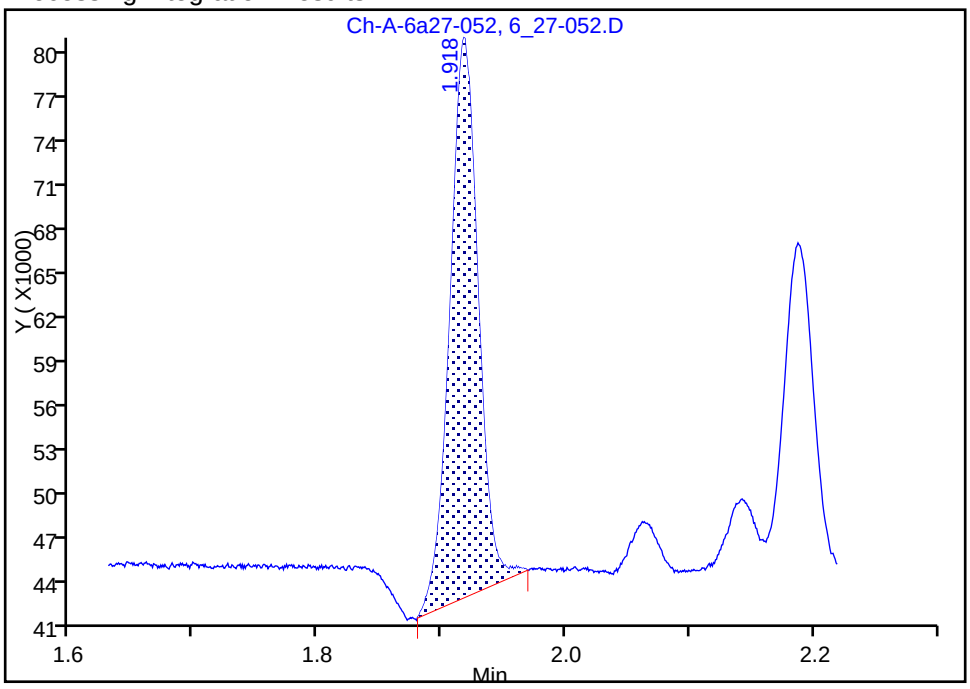
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D
Injection Date: 21-Jun-2017 12:41:51 Instrument ID: HP6890-6
Lims ID: IC 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

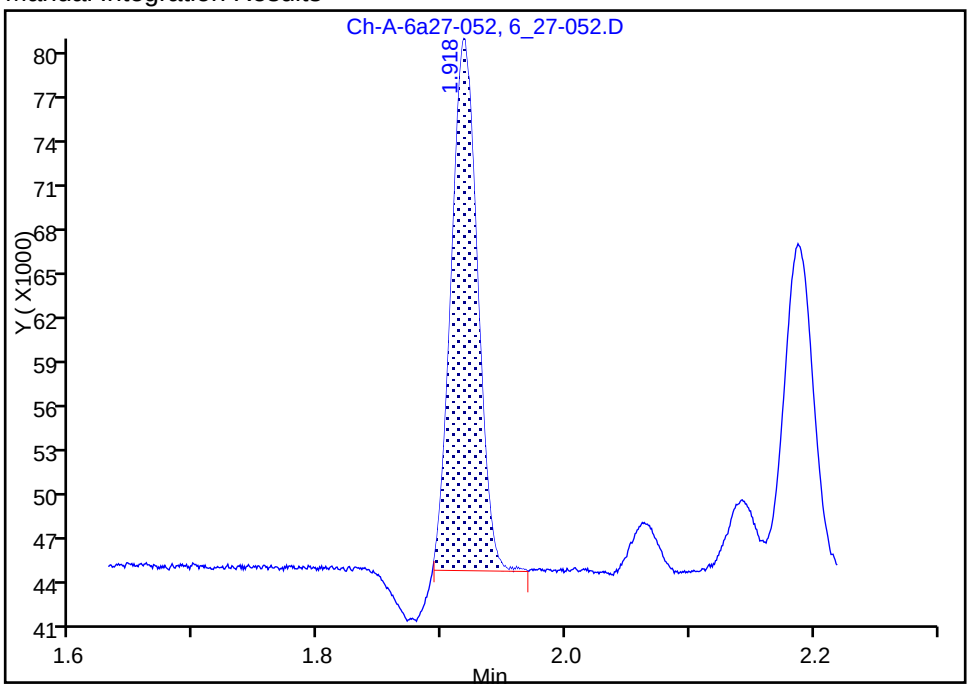
Processing Integration Results

RT: 1.92
Area: 59523
Amount: 0.002108
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 52240
Amount: 0.002235
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:08:30
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:58 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D

Injection Date: 21-Jun-2017 12:41:51 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

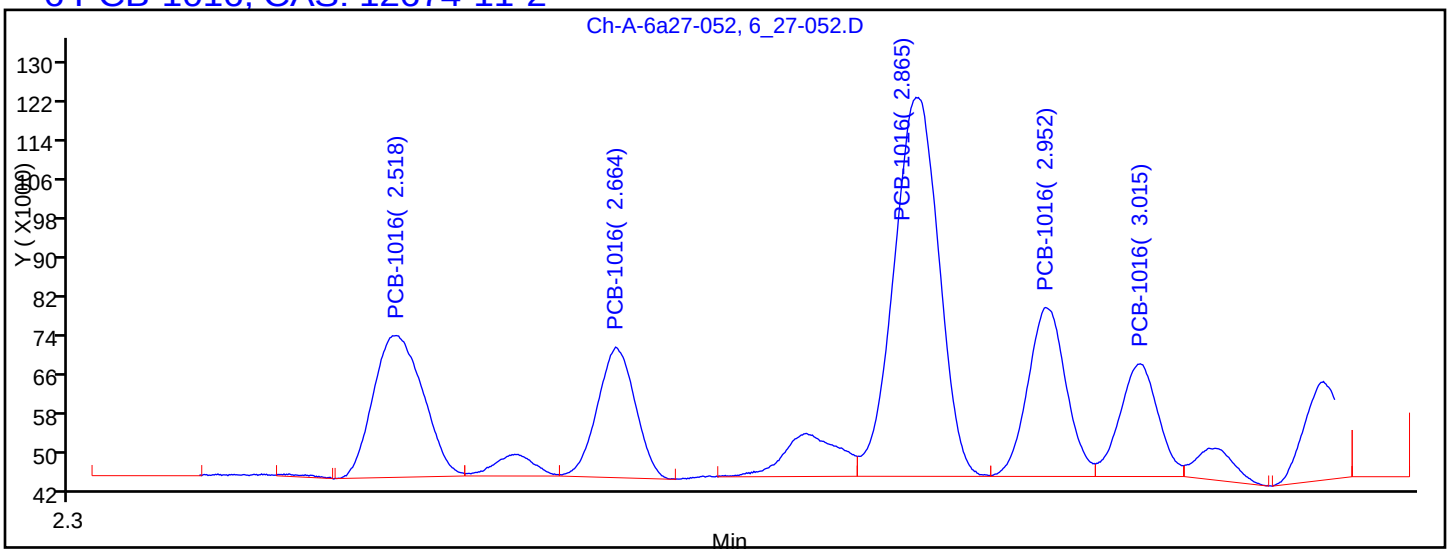
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

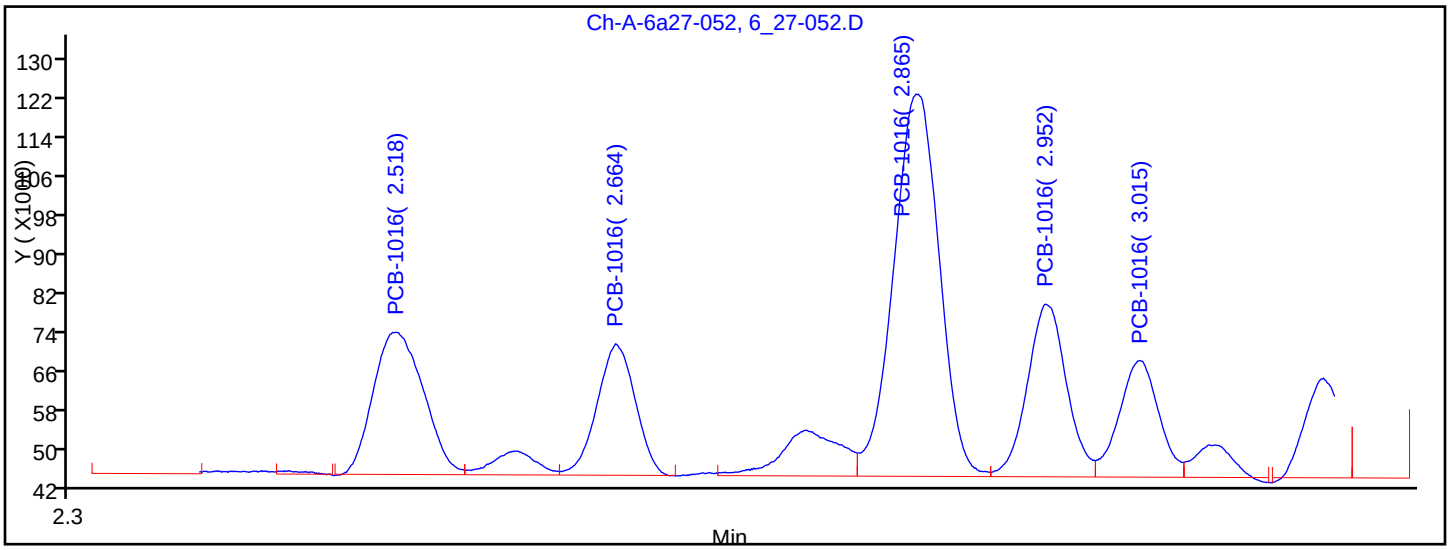
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.518	Response = 67813
2.664	Response = 47268
2.865	Response = 164153
2.952	Response = 62092
3.015	Response = 41529



Manual Integration Results

2.518	Response = 68344	M
2.664	Response = 48077	M
2.865	Response = 167813	M
2.952	Response = 65251	M
3.015	Response = 44395	M

Reviewer: owenj, 21-Jun-2017 16:08:30

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

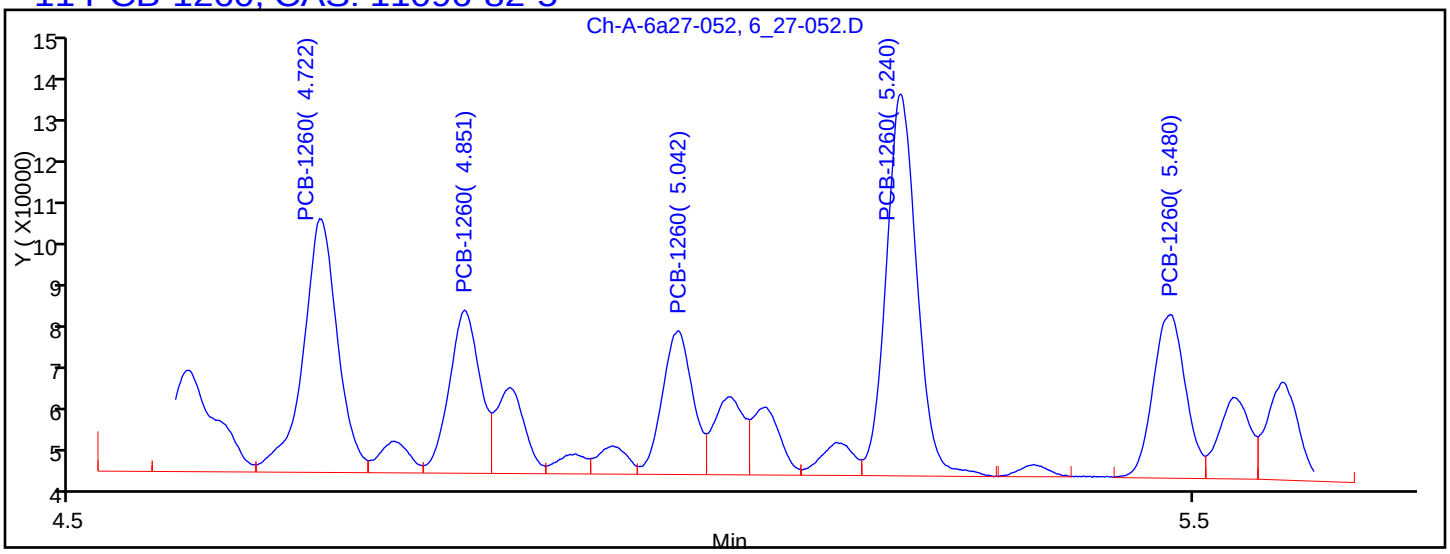
Report Date: 21-Jun-2017 17:49:58 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D

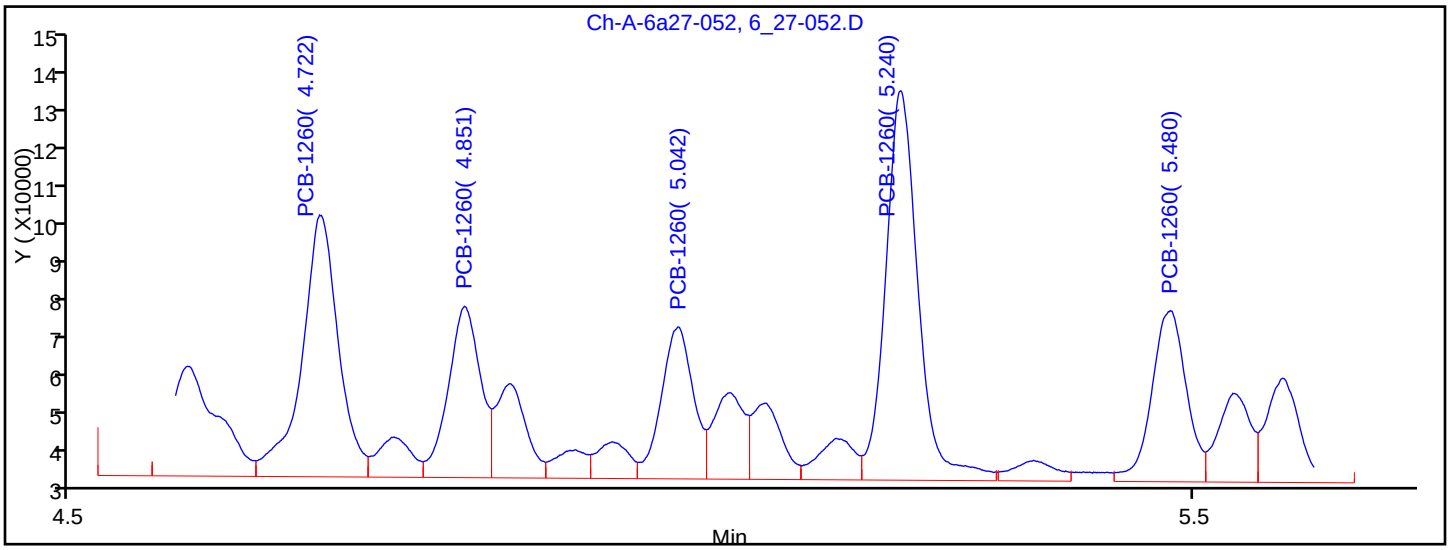
Injection Date:	21-Jun-2017 12:41:51	Instrument ID:	HP6890-6		
Lims ID:	IC 3				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.722	Response = 126783
4.851	Response = 72839
5.042	Response = 63636
5.240	Response = 170249
5.480	Response = 77694



Manual Integration Results

4.722	Response = 138714	M
4.851	Response = 80101	M
5.042	Response = 71008	M
5.240	Response = 184361	M
5.480	Response = 86595	M

Reviewer: owenj, 21-Jun-2017 17:46:16

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-053.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Jun-2017 12:57:58 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:50:02 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 16:08:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.017	1.017	0.000	13866688	0.5000	0.5000	
2	1.121	1.121	0.000	179853658	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.919	1.918	0.001	27210	0.001250	0.001159	M
2	1.750	1.749	0.001	563122	0.001250	0.001266	M
						RPD = 8.84	
6 PCB-1016							M
1	2.518	2.516	0.002	35701	0.0500	0.0492	M
1	2.665	2.666	-0.001	27795	0.0500	0.0481	M
1	2.867	2.868	-0.001	89882	0.0500	0.0476	M
1	2.953	2.953	0.000	38461	0.0500	0.0491	M
1	3.015	3.015	0.000	26415	0.0500	0.0498	M
		Average of Peak Amounts =				0.0488	
2	2.523	2.523	-0.001	850486	0.0500	0.0506	M
2	2.846	2.845	0.001	1666987	0.0500	0.0518	M
2	2.967	2.966	0.001	688474	0.0500	0.0543	M
2	3.108	3.108	0.000	389363	0.0500	0.0542	M
2	3.351	3.351	0.000	845397	0.0500	0.0591	M
		Average of Peak Amounts =				0.0540	
						RPD = 10.23	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.725	4.723	0.002	77041	0.0500	0.0513	M
1	4.853	4.851	0.001	46379	0.0500	0.0560	M
1	5.044	5.041	0.003	39725	0.0500	0.0534	M
1	5.241	5.241	0.000	99655	0.0500	0.0521	M
1	5.479	5.478	0.001	49361	0.0500	0.0549	M
		Average of Peak Amounts =				0.0535	
2	4.732	4.732	0.000	623338	0.0500	0.0528	M
2	4.777	4.776	0.001	504996	0.0500	0.0540	M
2	5.044	5.042	0.002	511819	0.0500	0.0574	M
2	5.179	5.177	0.002	1051807	0.0500	0.0530	M
2	5.514	5.513	0.001	632418	0.0500	0.0552	M
		Average of Peak Amounts =				0.0545	
						RPD = 1.74	
$ 15 DCB Decachlorobiphenyl							
1	6.499	6.497	0.002	16098	0.001250	0.001207	
2	6.431	6.428	0.003	195253	0.001250	0.001122	
						RPD = 7.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00006 Amount Added: 1.00 Units: mL

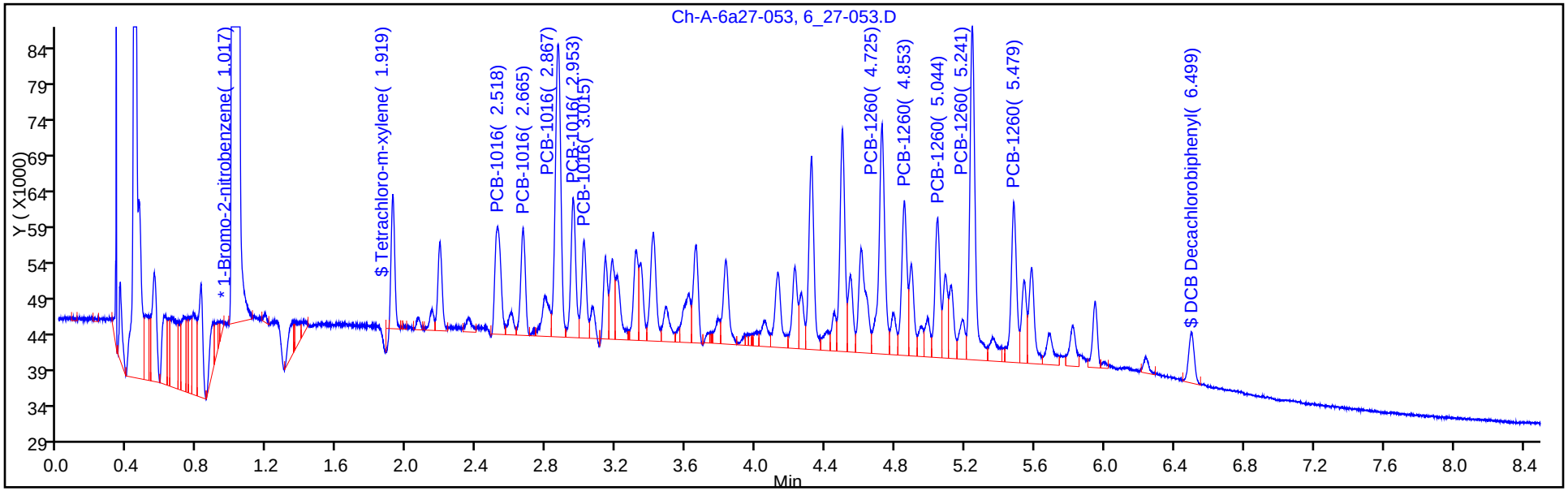
Report Date: 21-Jun-2017 17:50:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

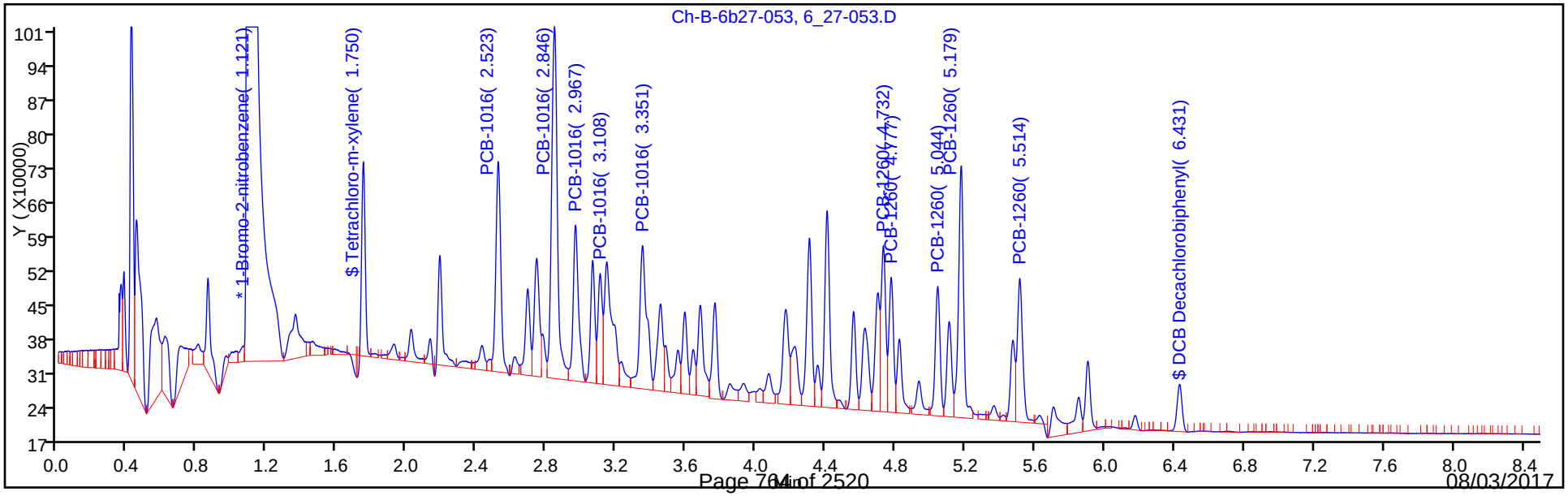
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-053.D

Injection Date:	21-Jun-2017 12:57:58	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

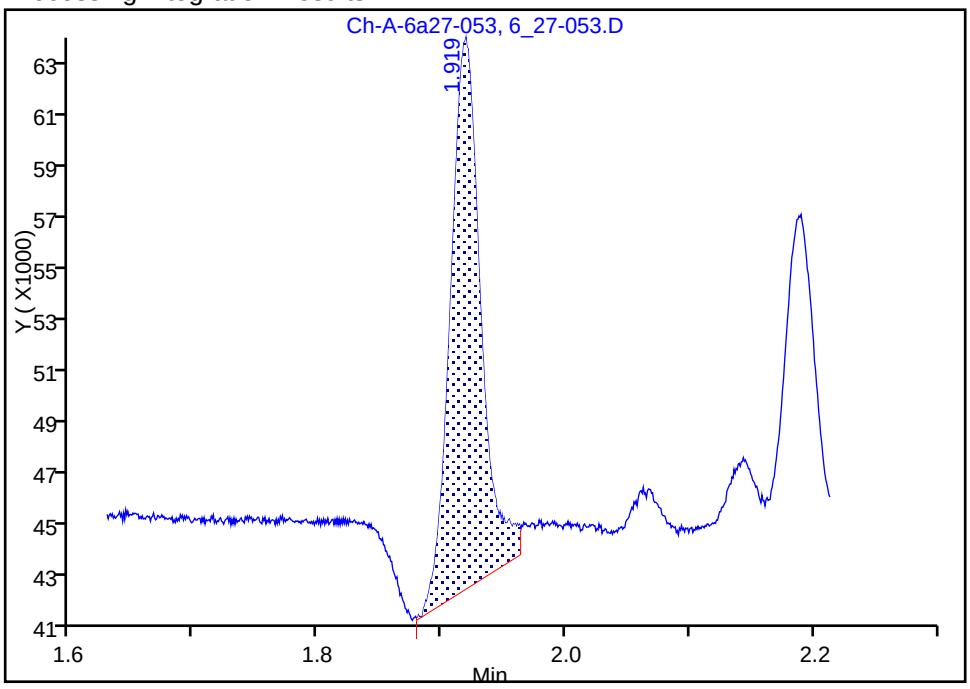
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-053.D
Injection Date: 21-Jun-2017 12:57:58 Instrument ID: HP6890-6
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

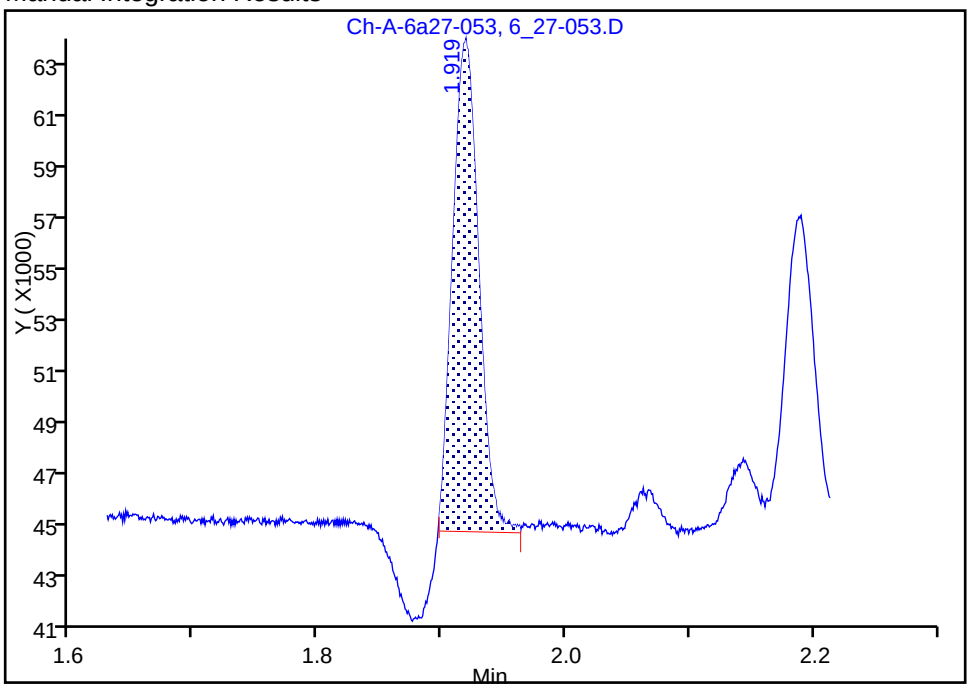
Processing Integration Results

RT: 1.92
Area: 35676
Amount: 0.001461
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 27210
Amount: 0.001159
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:07:41
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

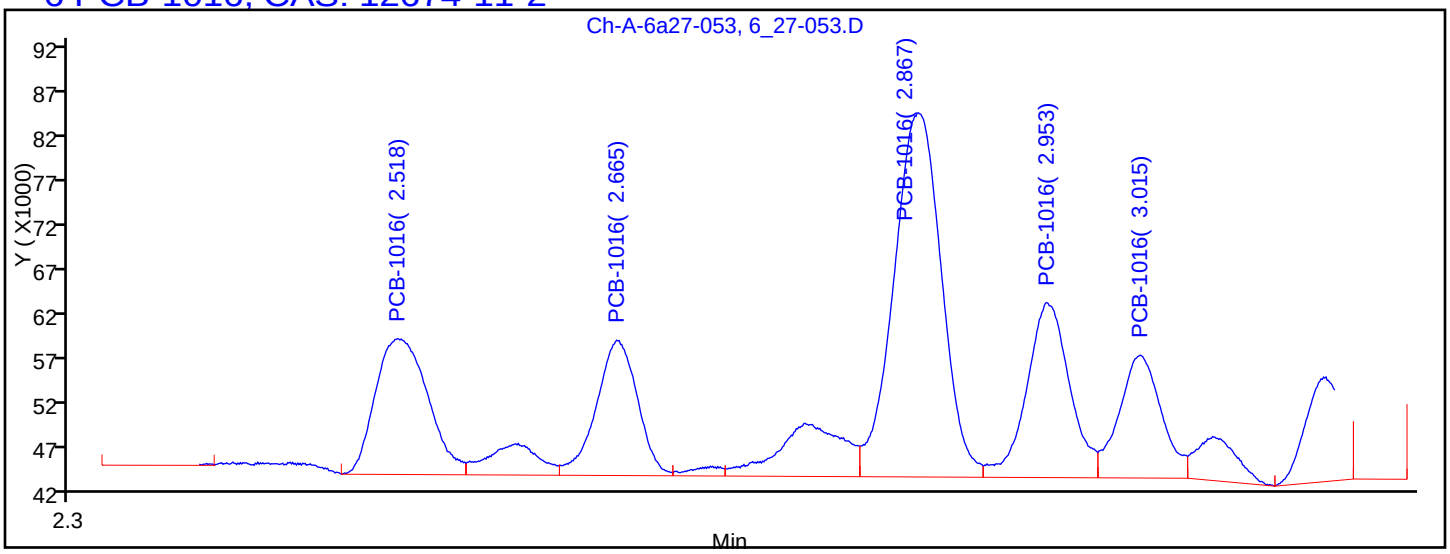
Report Date: 21-Jun-2017 17:50:03 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-053.D

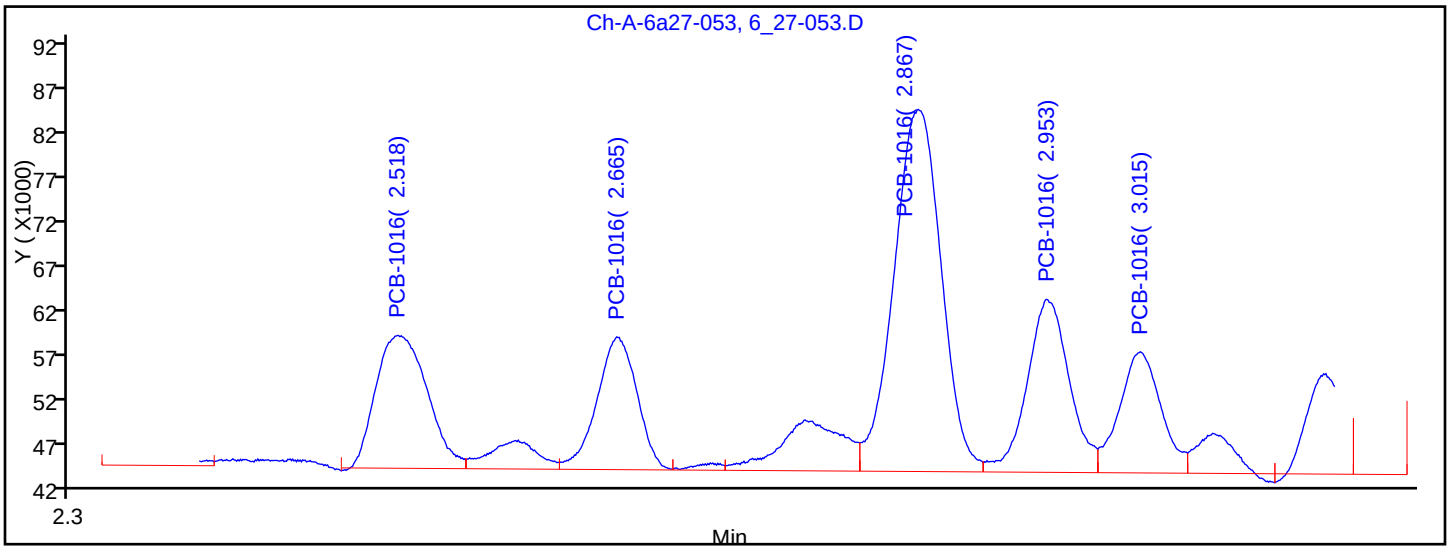
Injection Date:	21-Jun-2017 12:57:58	Instrument ID:	HP6890-6		
Lims ID:	IC 2				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.518	Response = 37351
2.665	Response = 29130
2.867	Response = 91077
2.953	Response = 39475
3.015	Response = 27144



Manual Integration Results

2.518	Response = 35701	M
2.665	Response = 27795	M
2.867	Response = 89882	M
2.953	Response = 38461	M
3.015	Response = 26415	M

Reviewer: owenj, 21-Jun-2017 16:21:58

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:50:03 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-053.D

Injection Date: 21-Jun-2017 12:57:58 Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

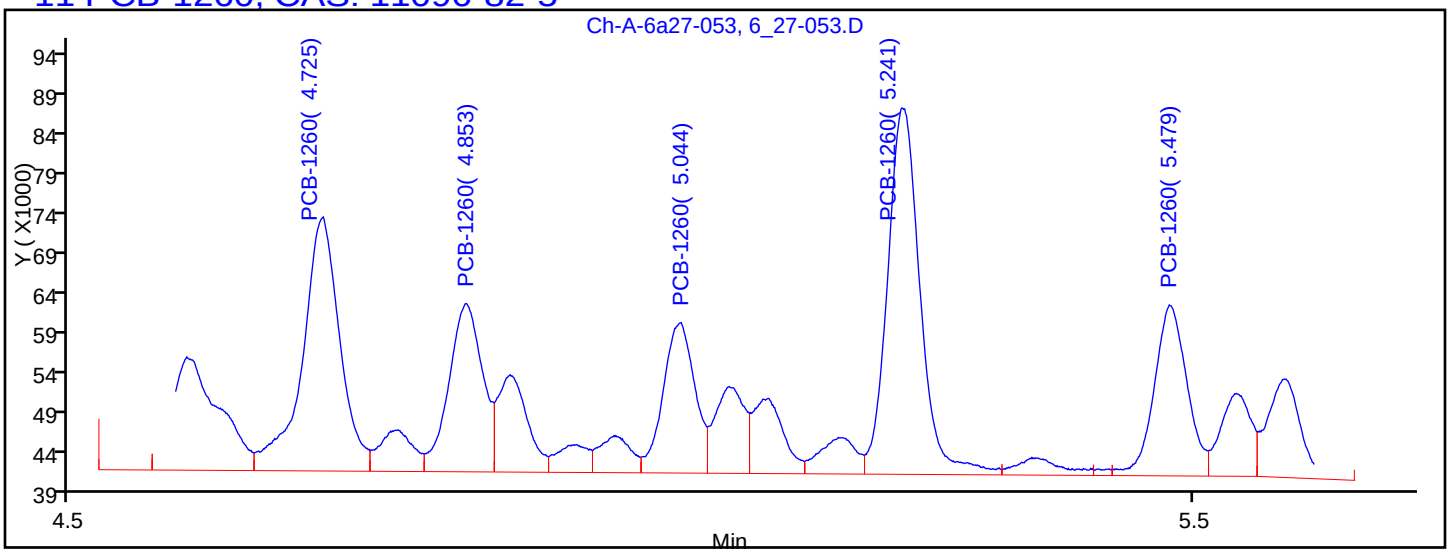
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

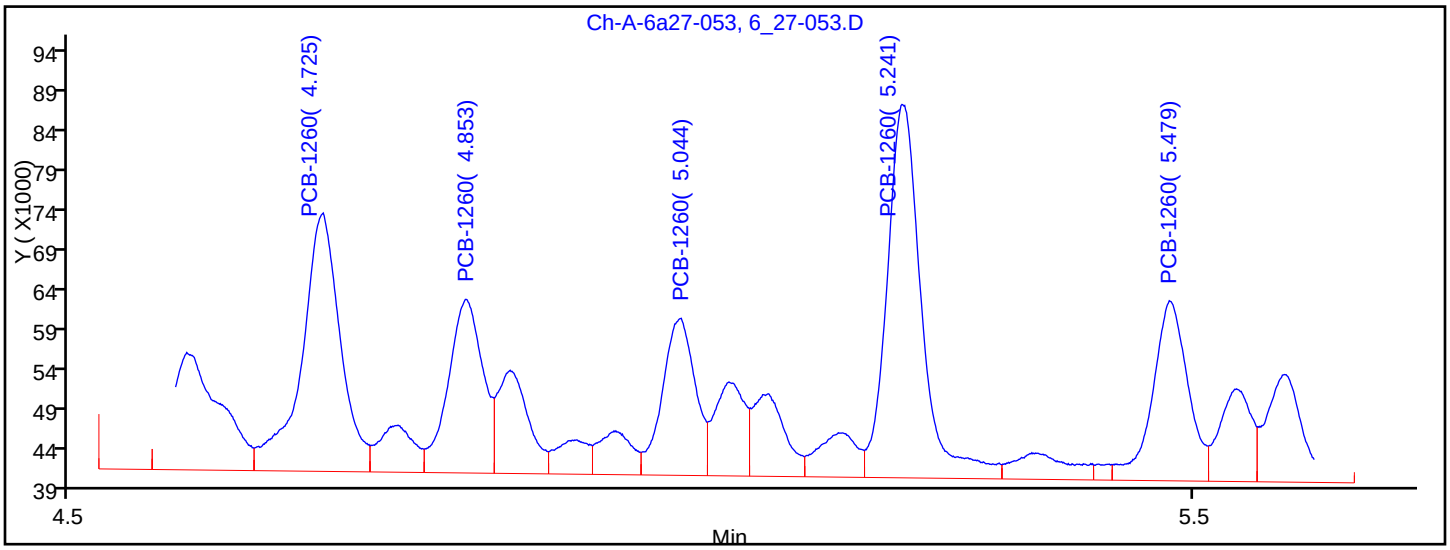
Column: Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.725	Response = 73033
4.853	Response = 43587
5.044	Response = 36574
5.241	Response = 91867
5.479	Response = 43127



Manual Integration Results

4.725	Response = 77041	M
4.853	Response = 46379	M
5.044	Response = 39725	M
5.241	Response = 99655	M
5.479	Response = 49361	M

Reviewer: owenj, 21-Jun-2017 17:46:30

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Jun-2017 13:13:48 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:50:07 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 16:07:25

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.017	1.017	0.000	12258499	0.5000	0.5000	M
2	1.119	1.119	0.000	173099841	0.5000	0.5000	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	12673	0.000500	0.000620	M
2	1.750	1.750	0.000	265630	0.000500	0.000450	M
						RPD = 31.74	
6 PCB-1016							M
1	2.521	2.521	0.000	14855	0.0200	0.0232	M
1	2.665	2.665	0.000	13858	0.0200	0.0218	M
1	2.867	2.867	0.000	41226	0.0200	0.0232	M
1	2.954	2.954	0.000	19023	0.0200	0.0219	M
1	3.014	3.014	0.000	12913	0.0200	0.0220	M
		Average of Peak Amounts =				0.0224	
2	2.523	2.523	0.000	465801	0.0200	0.0133	M
2	2.845	2.845	0.000	855563	0.0200	0.0197	M
2	2.966	2.966	0.000	329187	0.0200	0.0131	M
2	3.108	3.108	0.000	192743	0.0200	0.0136	M
2	3.350	3.350	0.000	369375	0.0200	0.0105	M
		Average of Peak Amounts =				0.0140	
						RPD = 45.95	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.723	4.723	0.000	30884	0.0200	0.0197	M
1	4.853	4.853	0.000	19210	0.0200	0.0262	M
1	5.043	5.043	0.000	14992	0.0200	0.0171	M
1	5.240	5.240	0.000	36421	0.0200	0.0198	M
1	5.480	5.480	0.000	17208	0.0200	0.0168	M
		Average of Peak Amounts =				0.0199	
2	4.732	4.732	0.000	299772	0.0200	0.0191	M
2	4.775	4.775	0.000	247226	0.0200	0.0169	M
2	5.042	5.042	0.000	218663	0.0200	0.0149	M
2	5.178	5.178	0.000	477239	0.0200	0.0214	M
2	5.513	5.513	0.000	286595	0.0200	0.0187	M
		Average of Peak Amounts =				0.0182	
						RPD = 9.14	
$ 15 DCB Decachlorobiphenyl							
1	6.496	6.496	0.000	6641	0.000500	0.000505	
2	6.430	6.430	0.000	117888	0.000500	0.000406	
						RPD = 21.85	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00006 Amount Added: 1.00 Units: mL

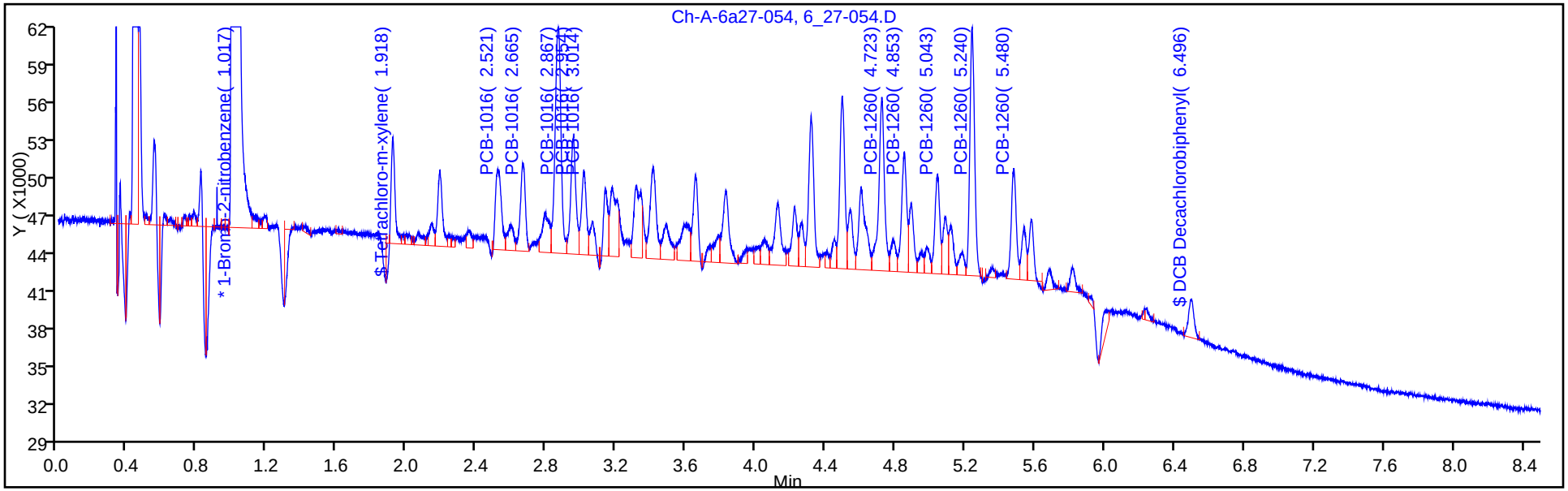
Report Date: 21-Jun-2017 17:50:07 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

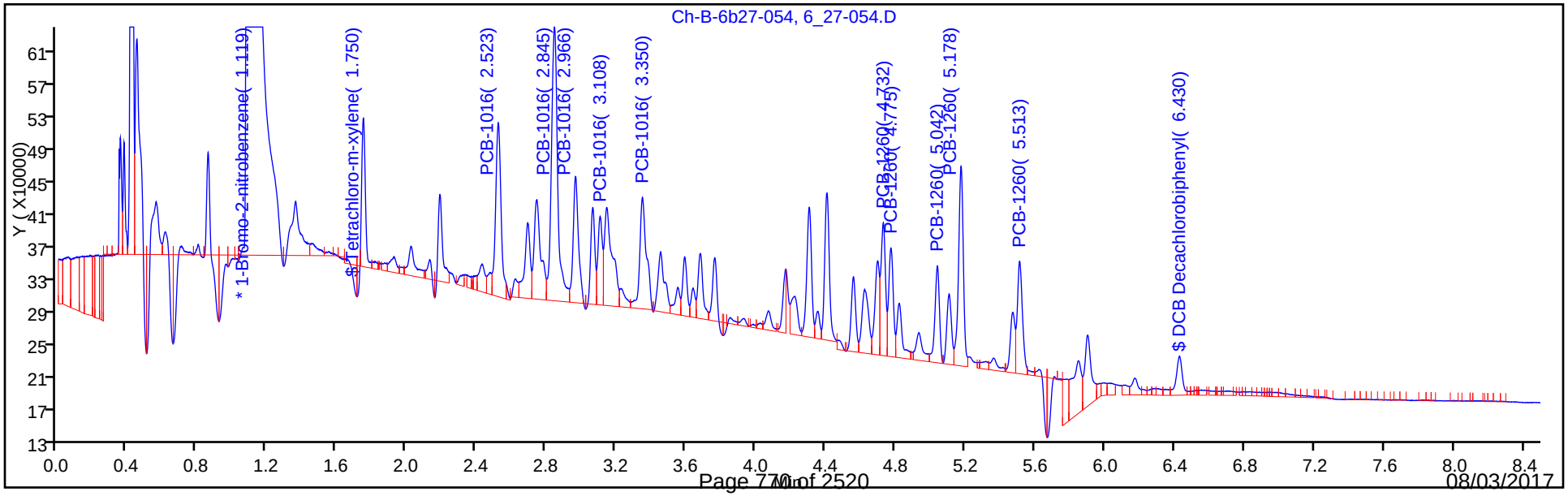
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Injection Date:	21-Jun-2017 13:13:48	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

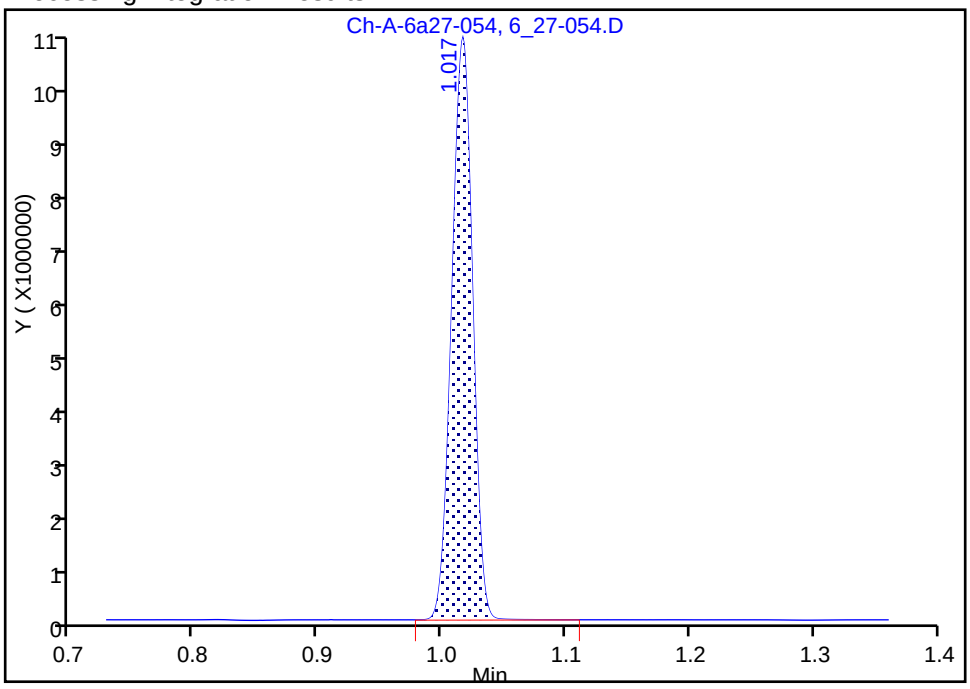
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D
Injection Date: 21-Jun-2017 13:13:48 Instrument ID: HP6890-6
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

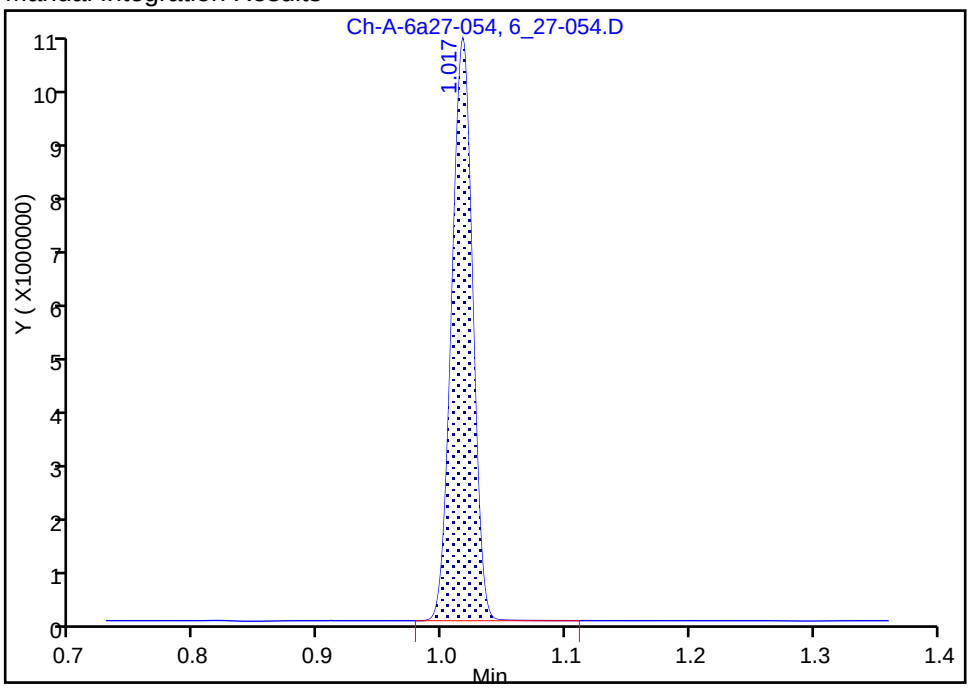
Processing Integration Results

RT: 1.02
Area: 12291217
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.02
Area: 12258499
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:07:19
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

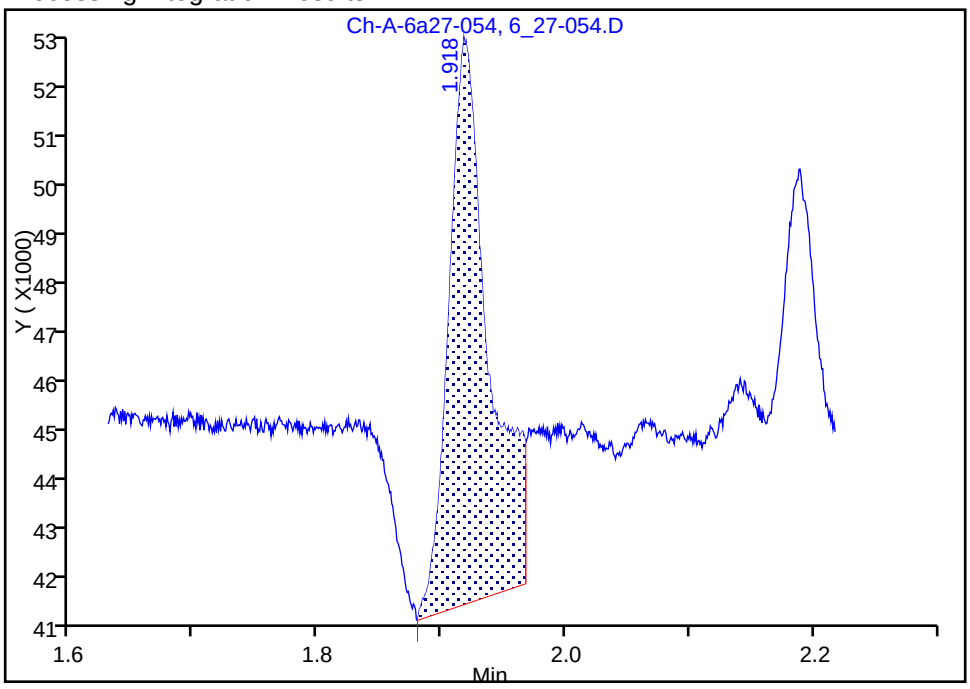
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D
Injection Date: 21-Jun-2017 13:13:48 Instrument ID: HP6890-6
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

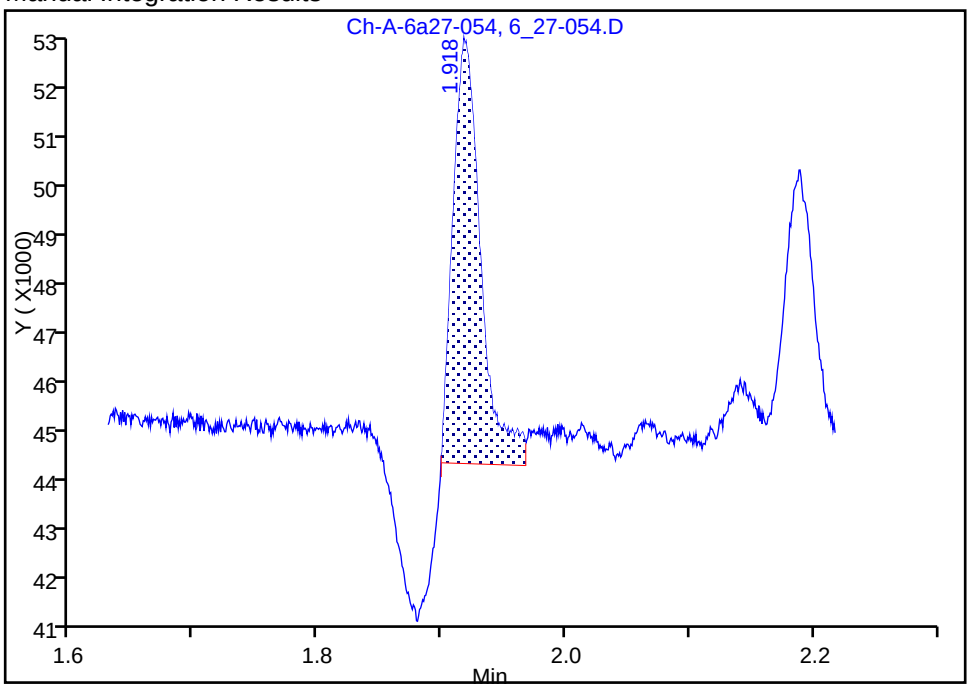
Processing Integration Results

RT: 1.92
Area: 24532
Amount: 0.000756
Amount Units: ng/uL



Manual Integration Results

RT: 1.92
Area: 12673
Amount: 0.000620
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 17:35:11
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

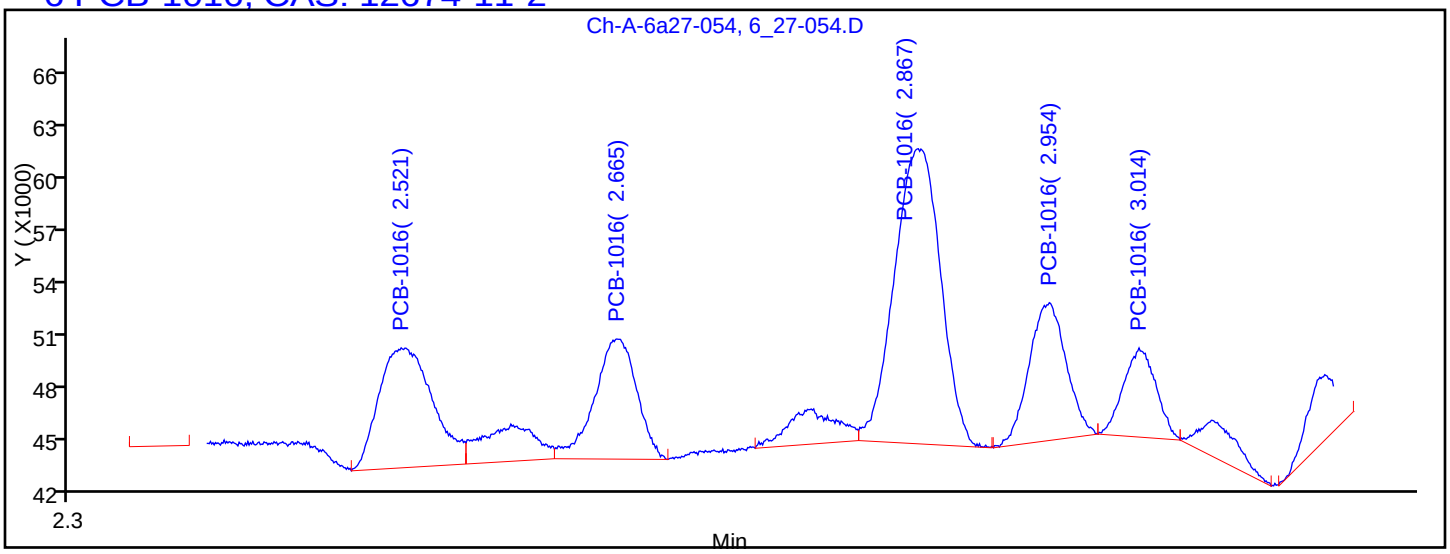
Report Date: 21-Jun-2017 17:50:07 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

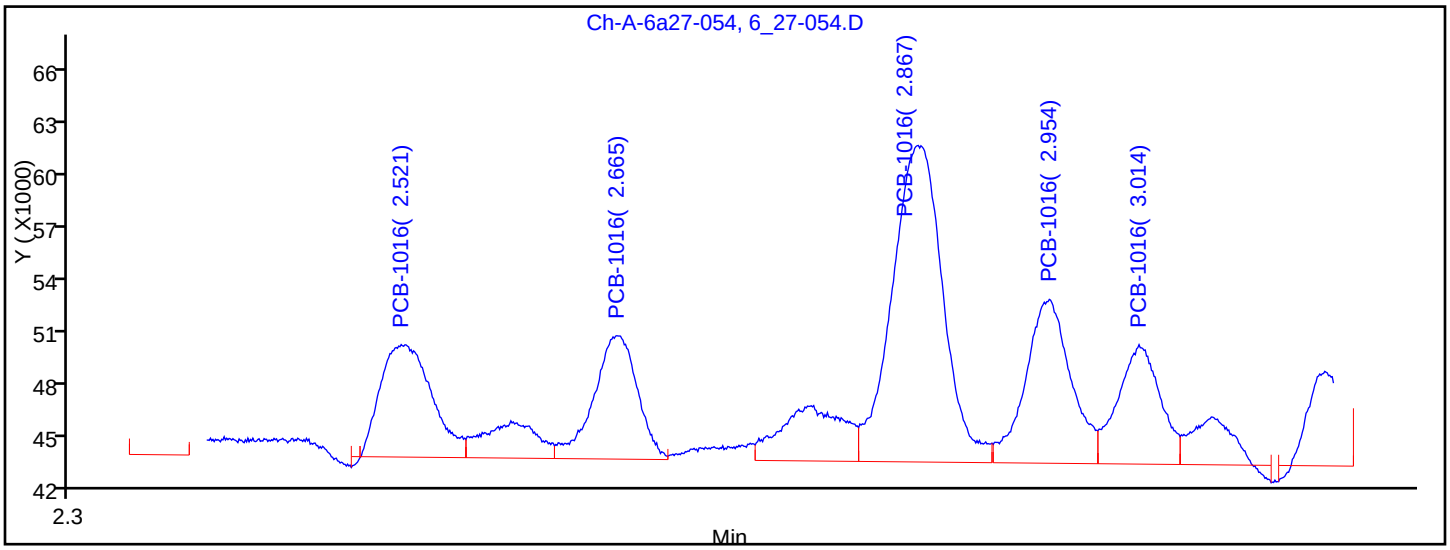
Injection Date:	21-Jun-2017 13:13:48	Instrument ID:	HP6890-6		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.521	Response = 16500
2.665	Response = 13041
2.867	Response = 35004
2.954	Response = 13124
3.014	Response = 7411



Manual Integration Results

2.521	Response = 14855	M
2.665	Response = 13858	M
2.867	Response = 41226	M
2.954	Response = 19023	M
3.014	Response = 12913	M

Reviewer: owenj, 21-Jun-2017 17:35:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

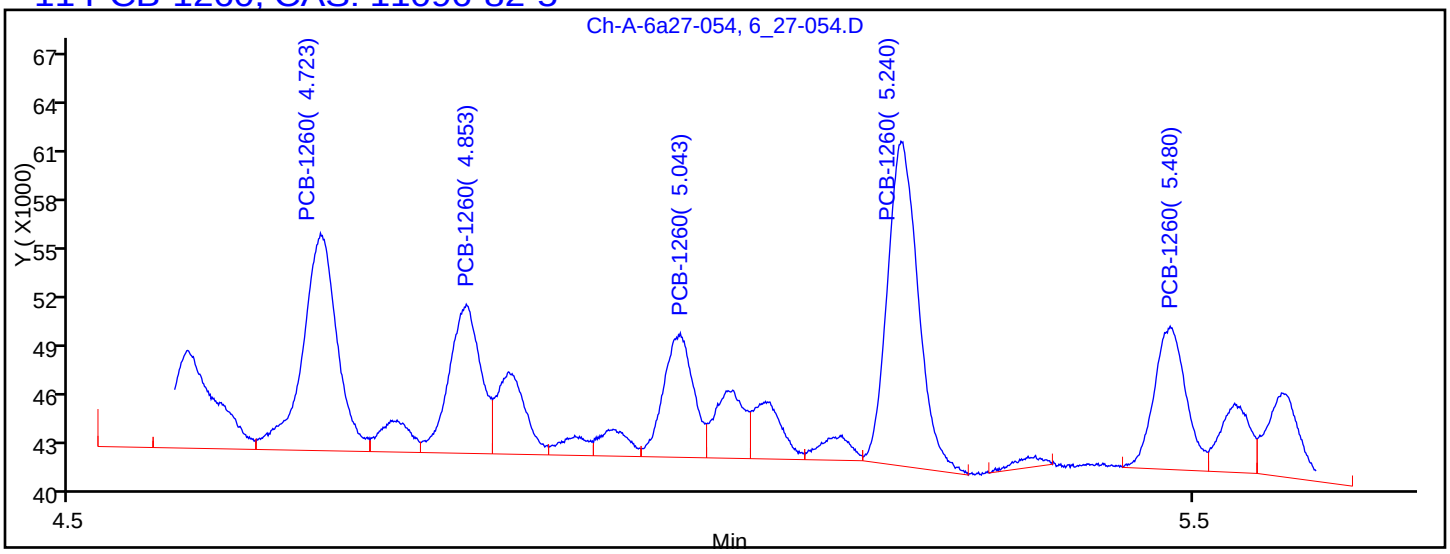
Report Date: 21-Jun-2017 17:50:07 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

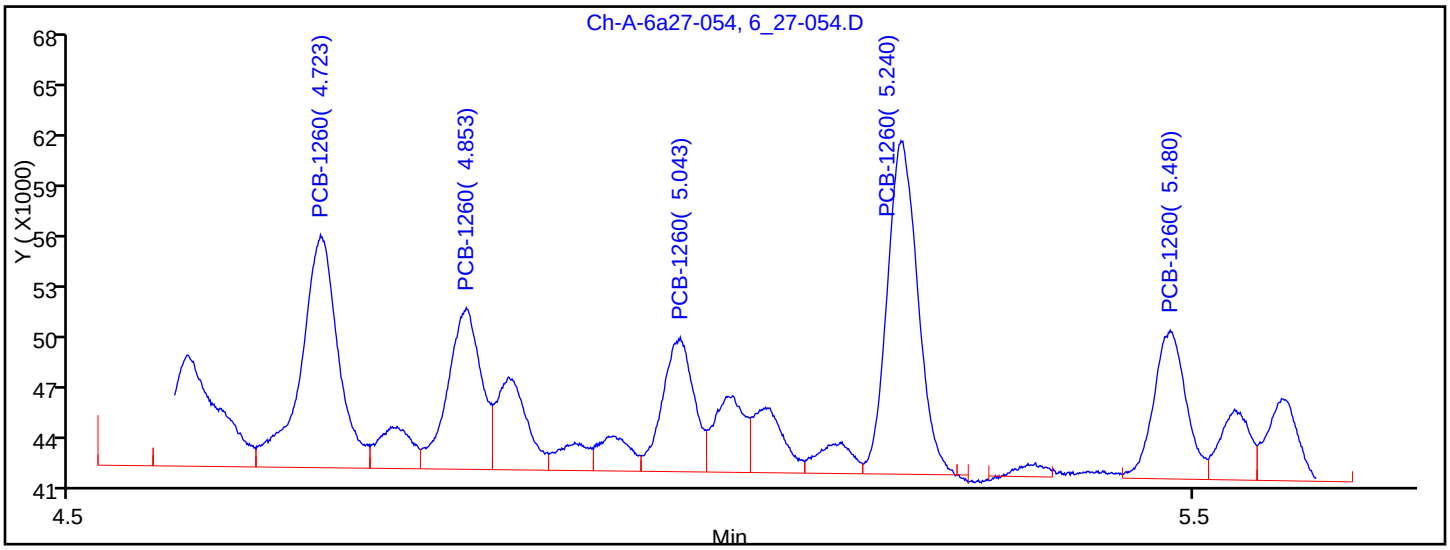
Injection Date:	21-Jun-2017 13:13:48	Instrument ID:	HP6890-6		
Lims ID:	IC 1				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.723	Response = 27407
4.853	Response = 17262
5.043	Response = 13564
5.240	Response = 36673
5.480	Response = 16709



Manual Integration Results

4.723	Response = 30884	M
4.853	Response = 19210	M
5.043	Response = 14992	M
5.240	Response = 36421	M
5.480	Response = 17208	M

Reviewer: owenj, 21-Jun-2017 16:20:37

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 363130

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2017 11:38 Calibration End Date: 06/21/2017 13:13 Calibration ID: 30752

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-363130/10	6_27-054.D
Level 2	IC 480-363130/9	6_27-053.D
Level 3	IC 480-363130/8	6_27-052.D
Level 4	IC 480-363130/7	6_27-051.D
Level 5	ICIS 480-363130/6	6_27-050.D
Level 6	IC 480-363130/5	6_27-049.D
Level 7	IC 480-363130/4	6_27-048.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0673 0.0296	0.0473 0.0260	0.0397	0.0361	0.0322	Lin1	0.0010	0.0273							0.9930		0.9900
PCB-1016 Peak 2	0.1236 0.0689	0.0927 0.0681	0.0777	0.0732	0.0690	Lin1	0.0011	0.0675							1.0000		0.9900
PCB-1016 Peak 3	0.0475 0.0247	0.0383 0.0226	0.0323	0.0291	0.0263	Lin1	0.0006	0.0234							0.9960		0.9900
PCB-1016 Peak 4	0.0278 0.0136	0.0216 0.0126	0.0179	0.0162	0.0146	Lin1	0.0004	0.0129							0.9970		0.9900
PCB-1016 Peak 5	0.0533 0.0276	0.0470 0.0256	0.0376	0.0337	0.0297	Lin1	0.0008	0.0264							0.9950		0.9900
PCB-1260 Peak 1	0.0433 0.0264	0.0347 0.0258	0.0289	0.0281	0.0260	Lin1	0.0004	0.0257							1.0000		0.9900
PCB-1260 Peak 2	0.0357 0.0191	0.0281 0.0186	0.0230	0.0216	0.0196	Lin1	0.0004	0.0186							1.0000		0.9900
PCB-1260 Peak 3	0.0316 0.0189	0.0285 0.0186	0.0229	0.0217	0.0195	Lin1	0.0004	0.0186							0.9990		0.9900
PCB-1260 Peak 4	0.0689 0.0487	0.0585 0.0498	0.0482	0.0492	0.0481	Lin1	0.0003	0.0488							0.9990		0.9900
PCB-1260 Peak 5	0.0414 0.0260	0.0352 0.0257	0.0281	0.0272	0.0259	Lin1	0.0004	0.0255							1.0000		0.9900
Tetrachloro-m-xylene	1.5345 1.0187	1.2524 0.9567	1.1144	1.0767	1.0511	Lin1	0.0003	0.9784							0.9990		0.9900
DCB Decachlorobiphenyl	0.6810 0.3025	0.4342 0.2719	0.3974	0.3675	0.3212	Lin1	0.0002	0.2822							0.9950		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 363130

SDG No.:

Instrument ID: HP6890-6 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2017 11:38 Calibration End Date: 06/21/2017 13:13 Calibration ID: 30752

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-363130/10	6_27-054.D
Level 2	IC 480-363130/9	6_27-053.D
Level 3	IC 480-363130/8	6_27-052.D
Level 4	IC 480-363130/7	6_27-051.D
Level 5	ICIS 480-363130/6	6_27-050.D
Level 6	IC 480-363130/5	6_27-049.D
Level 7	IC 480-363130/4	6_27-048.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	465801 10501473	850486 19165519	1455185	2615675	5909200	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	855563 24467023	1666987 50124397	2849445	5309741	12665351	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	329187 8769474	688474 16642975	1182495	2108872	4822591	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	192743 4823283	389363 9286549	654695	1175608	2674791	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	369375 9802883	845397 18853567	1377773	2446979	5449823	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	299772 9385624	623338 18978956	1060909	2039725	4778229	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	247226 6773657	504996 13708307	844546	1563184	3594361	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	218663 6711652	511819 13697710	839547	1575351	3573999	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	477239 17282478	1051807 36635213	1768177	3566953	8838477	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	286595 9228291	632418 18882696	1030757	1975408	4763052	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	265630 9045416	563122 17603071	1021361	1952426	4824342	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	117888 2685743	195253 5002733	364197	666458	1474140	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 21-Jun-2017 11:38:17 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:49:40 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 12:24:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.017	1.018	-0.001	13940175	0.5000	0.5000	M
2	1.121	1.121	0.000	183999624	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.918	1.919	-0.001	1216177	0.0500	0.0506	M
2	1.750	1.751	-0.001	17603071	0.0500	0.0486	M
						RPD = 4.20	
6 PCB-1016							M
1	2.515	2.516	-0.001	1394204	2.00	1.91	M
1	2.664	2.666	-0.002	928158	2.00	1.99	M
1	2.866	2.867	-0.001	3616039	2.00	2.03	M
1	2.952	2.954	-0.002	1267957	2.00	2.01	M
1	3.013	3.018	-0.005	868006	2.00	2.02	M
		Average of Peak Amounts =				1.99	
2	2.523	2.524	-0.001	19165519	2.00	1.87	M
2	2.846	2.846	0.000	50124397	2.00	2.00	M
2	2.966	2.967	-0.001	16642975	2.00	1.91	M
2	3.107	3.108	-0.001	9286549	2.00	1.92	M
2	3.349	3.352	-0.003	18853567	2.00	1.91	M
		Average of Peak Amounts =				1.92	
						RPD = 3.52	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.722	4.723	0.000	2718583	2.00	2.02	M
1	4.848	4.852	-0.004	1457742	2.00	1.75	M
1	5.039	5.043	-0.003	1272927	2.00	2.01	M
1	5.240	5.241	-0.001	3723892	2.00	2.04	M
1	5.478	5.482	-0.004	1583696	2.00	2.00	M
		Average of Peak Amounts =				1.96	
2	4.731	4.733	-0.001	18978956	2.00	1.99	M
2	4.775	4.777	-0.002	13708307	2.00	1.98	M
2	5.042	5.043	-0.001	13697710	2.00	1.98	M
2	5.176	5.178	-0.002	36635213	2.00	2.03	M
2	5.513	5.515	-0.003	18882696	2.00	2.00	M
		Average of Peak Amounts =				2.00	
						RPD = 1.61	
$ 15 DCB Decachlorobiphenyl							M
1	6.495	6.496	-0.001	611413	0.0500	0.0496	M
2	6.428	6.430	-0.002	5002733	0.0500	0.0474	M
						RPD = 4.62	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00006 Amount Added: 1.00 Units: mL

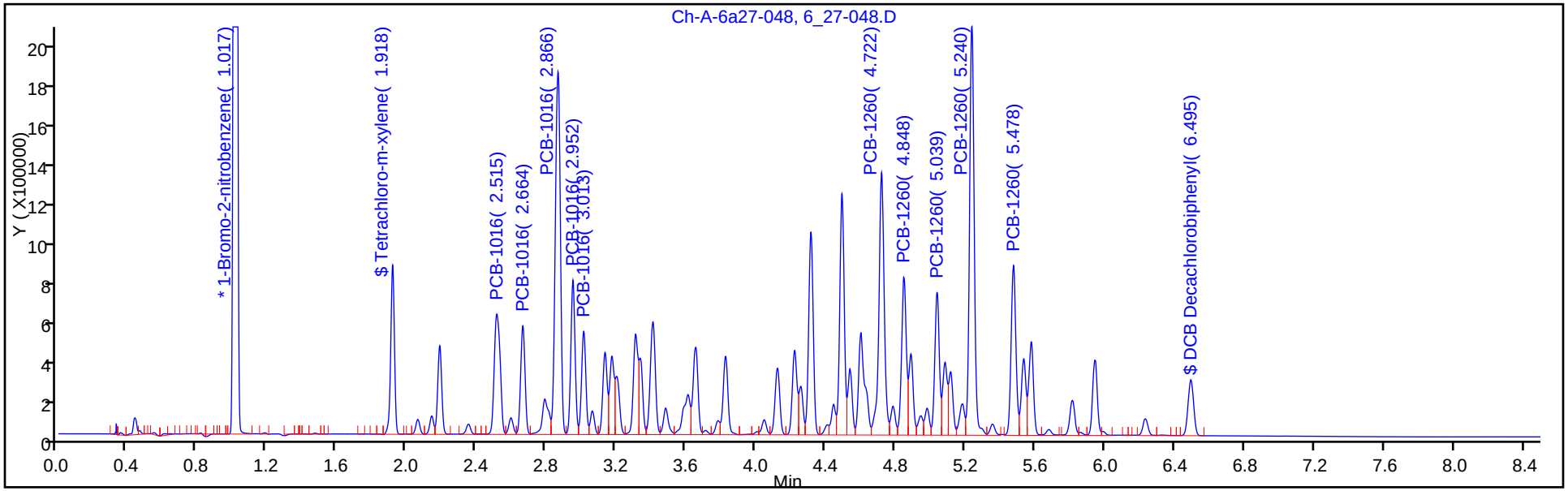
Report Date: 21-Jun-2017 17:49:41 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

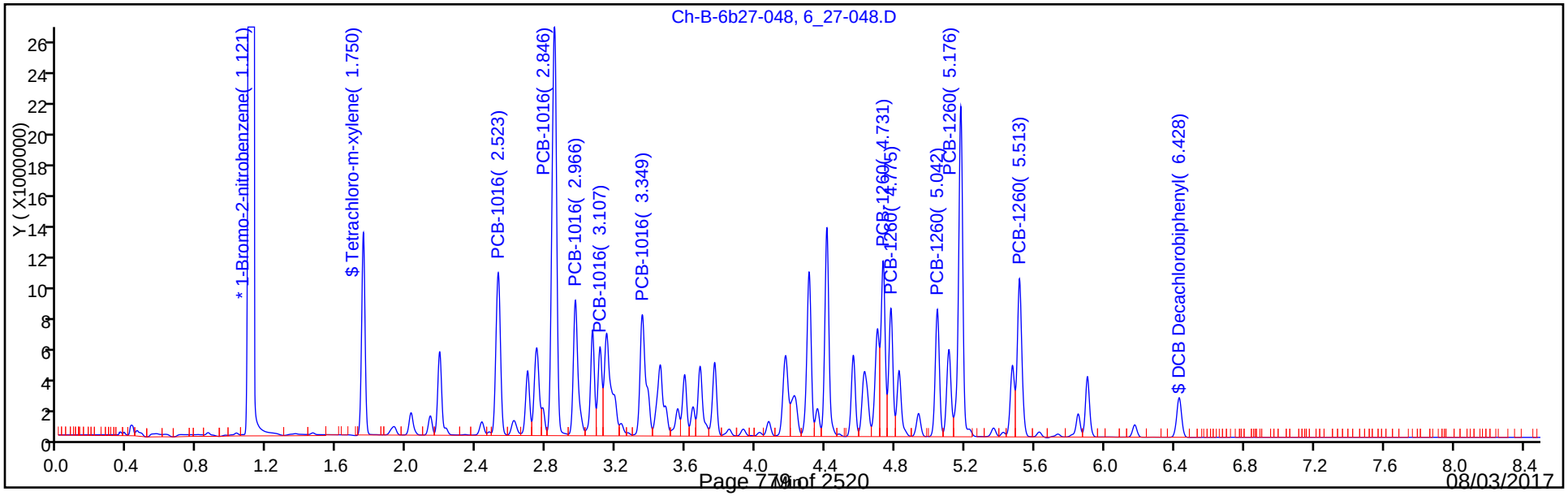
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D

Injection Date:	21-Jun-2017 11:38:17	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

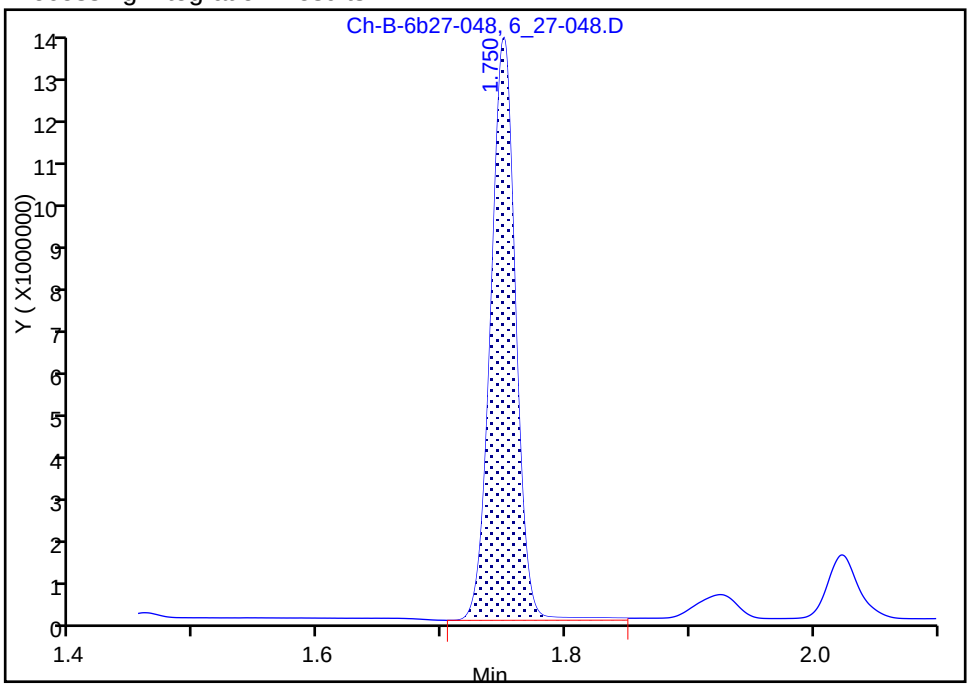
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D
Injection Date: 21-Jun-2017 11:38:17 Instrument ID: HP6890-6
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

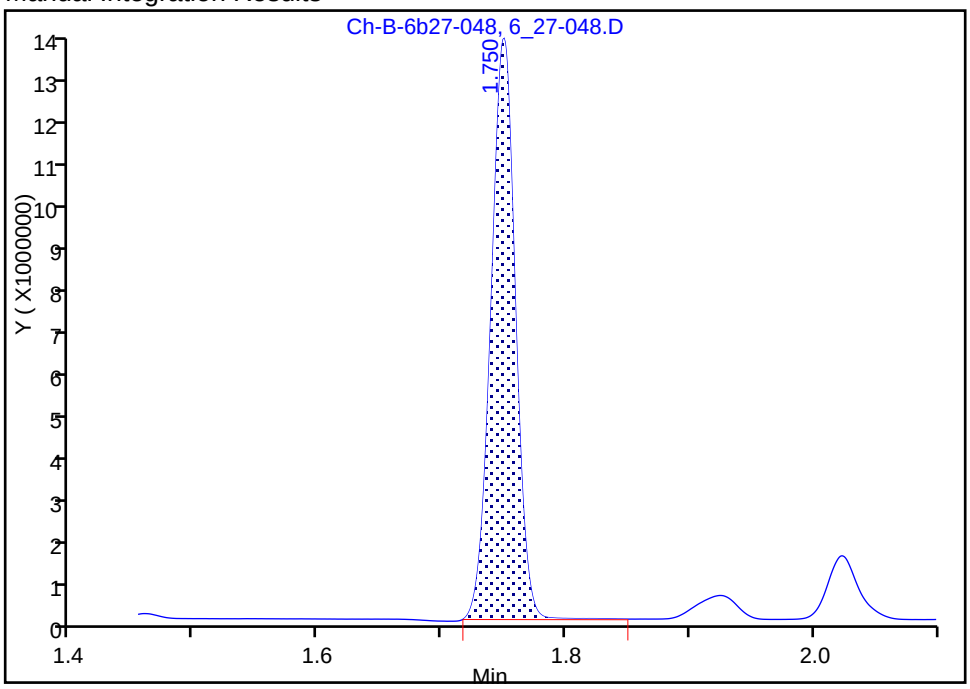
Processing Integration Results

RT: 1.75
Area: 17872525
Amount: 0.048798
Amount Units: ng/uL



Manual Integration Results

RT: 1.75
Area: 17603071
Amount: 0.048558
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 17:33:38
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Report Date: 21-Jun-2017 17:49:41 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D

Injection Date: 21-Jun-2017 11:38:17 Instrument ID: HP6890-6

Lims ID: IC 7

Client ID:

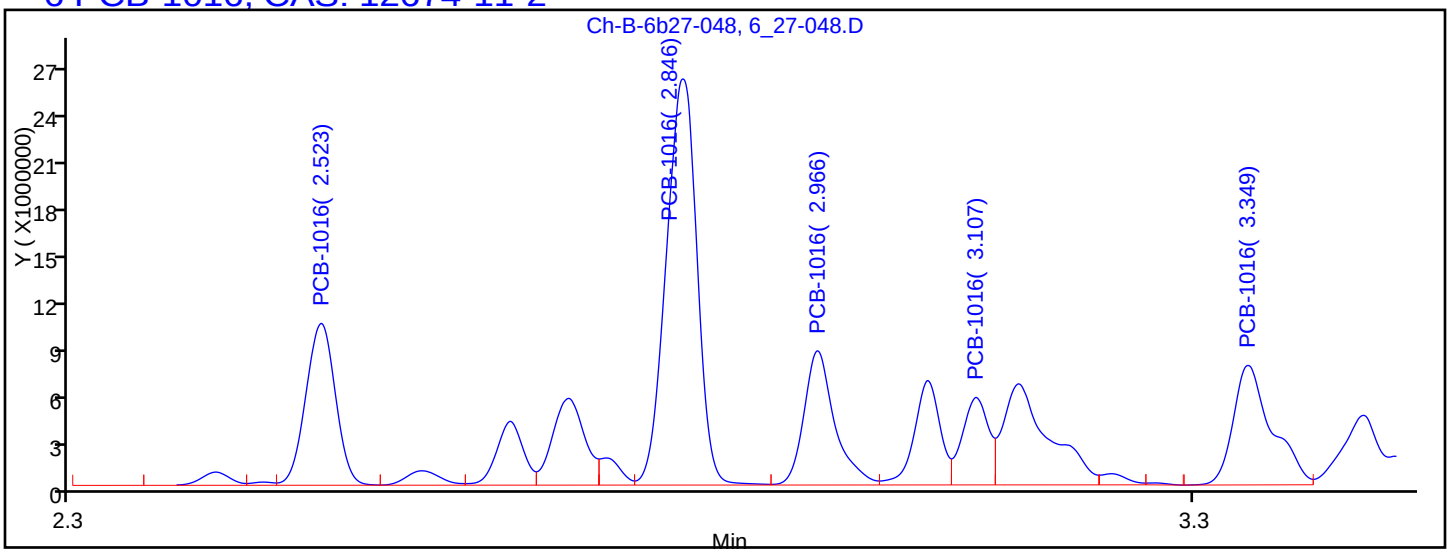
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

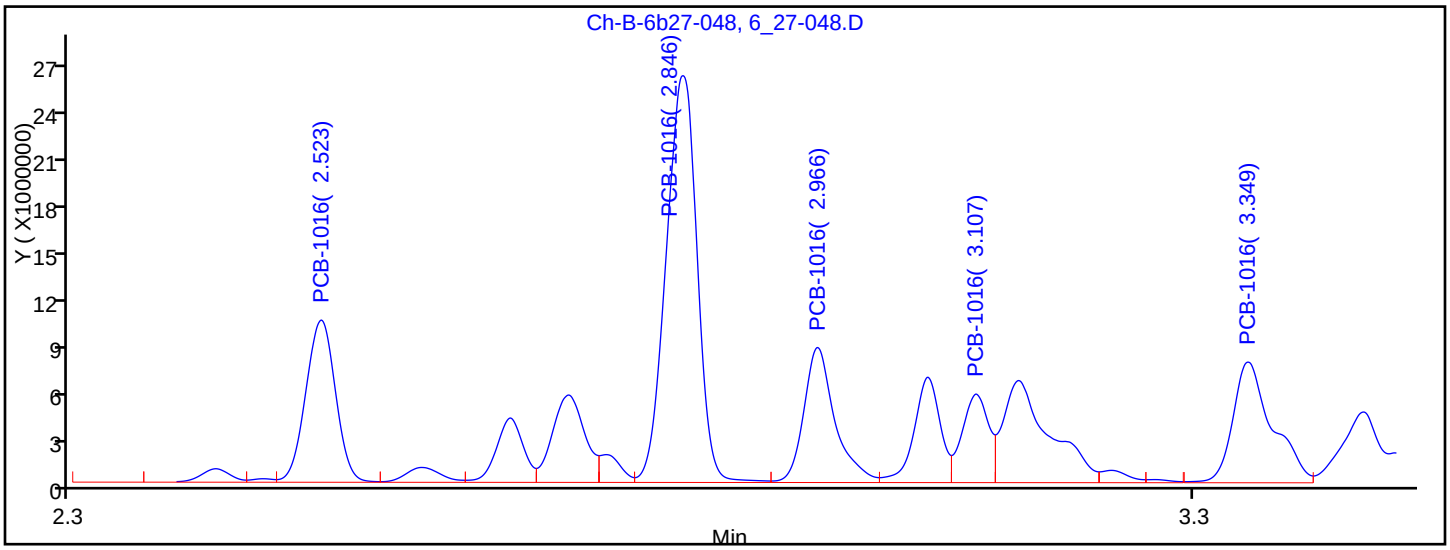
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.523	Response = 19032022
2.846	Response = 49769756
2.966	Response = 16316882
3.107	Response = 9127538
3.349	Response = 18326265



Manual Integration Results

2.523	Response = 19165519	M
2.846	Response = 50124397	M
2.966	Response = 16642975	M
3.107	Response = 9286549	M
3.349	Response = 18853567	M

Reviewer: owenj, 21-Jun-2017 16:10:45

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:41 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D

Injection Date: 21-Jun-2017 11:38:17 Instrument ID: HP6890-6

Lims ID: IC 7

Client ID:

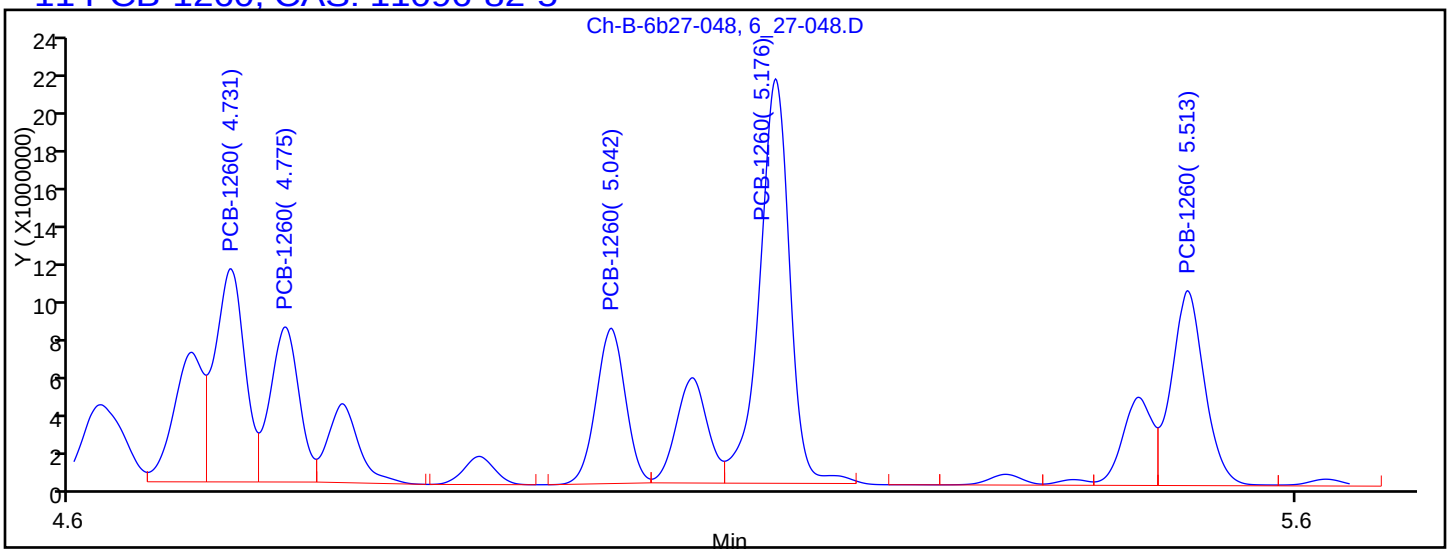
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

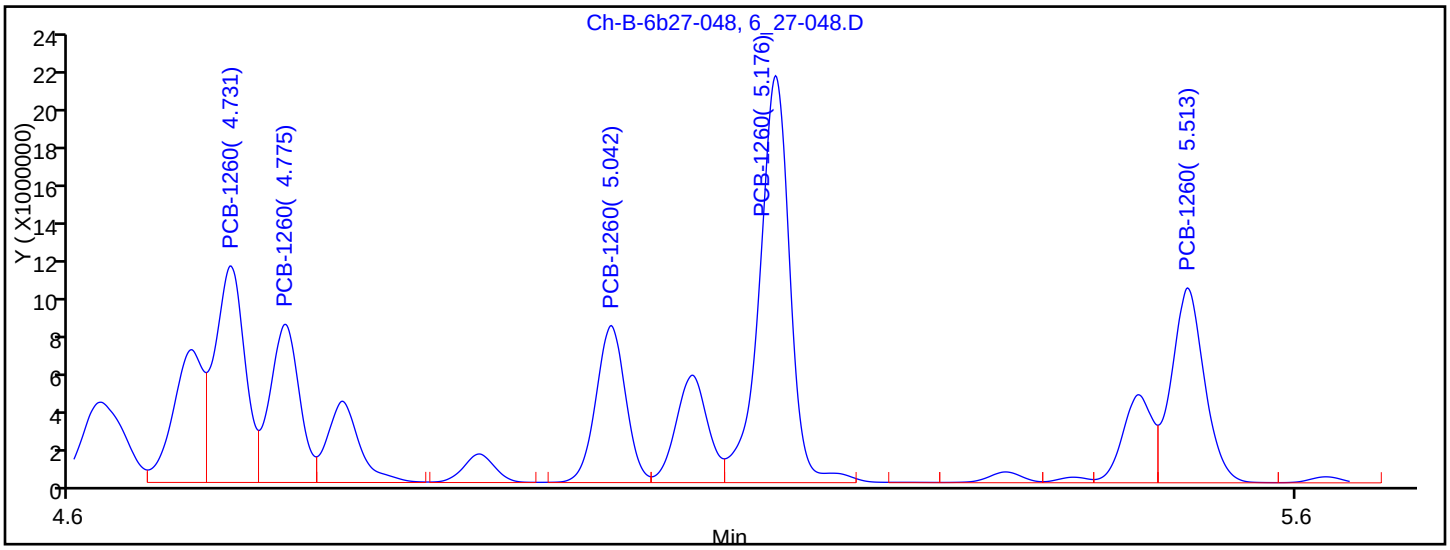
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.731	Response = 18595482
4.775	Response = 13289630
5.042	Response = 13390470
5.176	Response = 36071532
5.513	Response = 19032553



Manual Integration Results

4.731	Response = 18978956	M
4.775	Response = 13708307	M
5.042	Response = 13697710	M
5.176	Response = 36635213	M
5.513	Response = 18882696	M

Reviewer: owenj, 21-Jun-2017 17:33:32

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

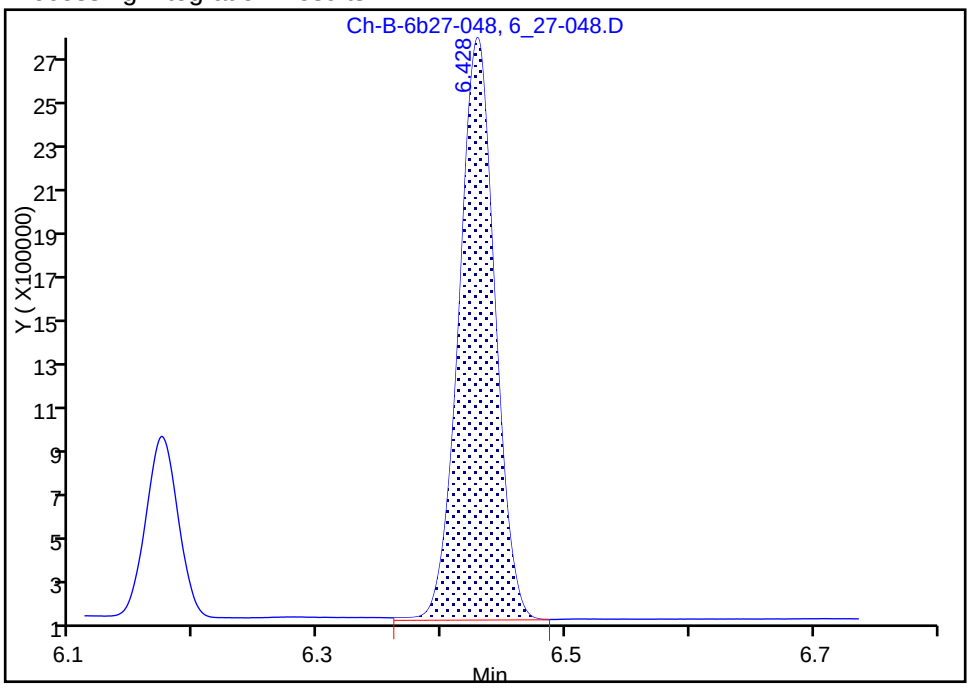
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-048.D
Injection Date: 21-Jun-2017 11:38:17 Instrument ID: HP6890-6
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

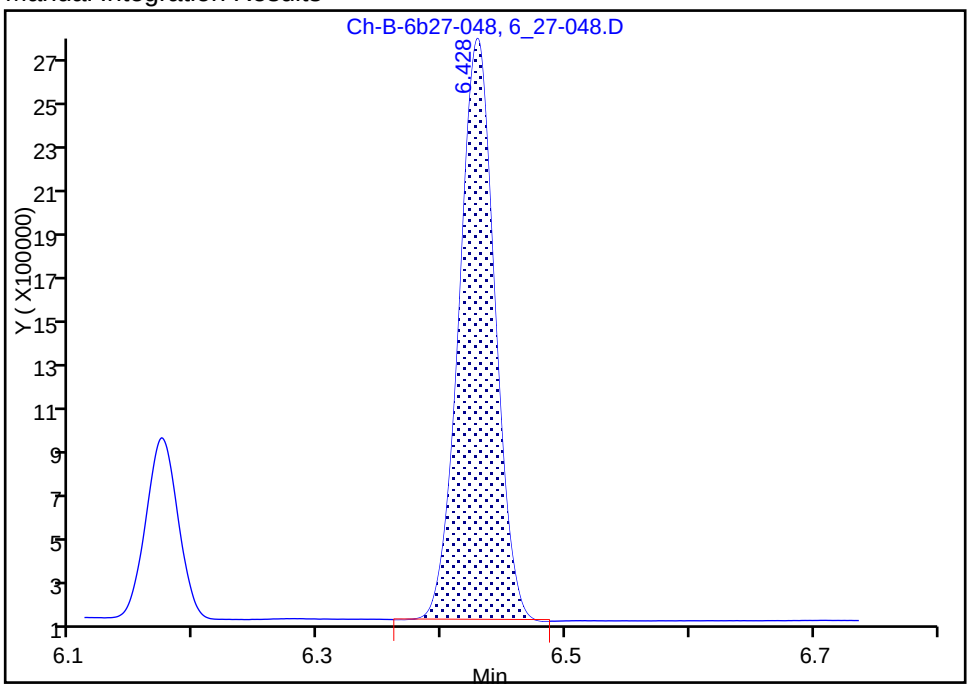
Processing Integration Results

RT: 6.43
Area: 5085587
Amount: 0.047742
Amount Units: ng/uL



Manual Integration Results

RT: 6.43
Area: 5002733
Amount: 0.047371
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 17:33:32
Audit Action: Assigned New Baseline Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 21-Jun-2017 11:54:18 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:49:44 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 12:24:52

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.015	1.018	-0.003	14320970	0.5000	0.5000	M
2	1.119	1.121	-0.002	177579963	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.917	1.919	-0.002	613559	0.0250	0.0249	M
2	1.749	1.751	-0.002	9045416	0.0250	0.0257	M
						RPD = 3.24	
6 PCB-1016							M
1	2.514	2.516	-0.002	735956	1.00	0.9824	M
1	2.665	2.666	-0.001	483566	1.00	1.00	M
1	2.866	2.867	-0.001	1794001	1.00	0.9789	M
1	2.953	2.954	-0.002	647363	1.00	0.99	M
1	3.014	3.018	-0.004	439910	1.00	0.9890	M
		Average of Peak Amounts =				0.9889	
2	2.523	2.524	-0.001	10501473	1.00	1.05	M
2	2.845	2.846	-0.001	24467023	1.00	1.00	M
2	2.966	2.967	-0.001	8769474	1.00	1.03	M
2	3.108	3.108	0.000	4823283	1.00	1.02	M
2	3.350	3.352	-0.002	9802883	1.00	1.02	M
		Average of Peak Amounts =				1.02	
						RPD = 3.40	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.723	4.723	0.000	1328881	1.00	0.9589	M
1	4.851	4.852	-0.001	723212	1.00	0.8458	M
1	5.042	5.043	0.000	627853	1.00	0.9584	M
1	5.240	5.241	-0.001	1791898	1.00	0.9539	M
1	5.478	5.482	-0.004	788786	1.00	0.9666	M
		Average of Peak Amounts =				0.9367	
2	4.732	4.733	0.000	9385624	1.00	1.01	M
2	4.777	4.777	0.000	6773657	1.00	1.00	M
2	5.043	5.043	-0.001	6711652	1.00	1.00	M
2	5.178	5.178	0.000	17282478	1.00	0.99	M
2	5.513	5.515	-0.002	9228291	1.00	1.01	M
		Average of Peak Amounts =				1.00	
						RPD = 6.69	
$ 15 DCB Decachlorobiphenyl							M
1	6.496	6.496	0.000	315616	0.0250	0.0249	M
2	6.430	6.430	0.000	2685743	0.0250	0.0260	M
						RPD = 4.41	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00007 Amount Added: 1.00 Units: mL

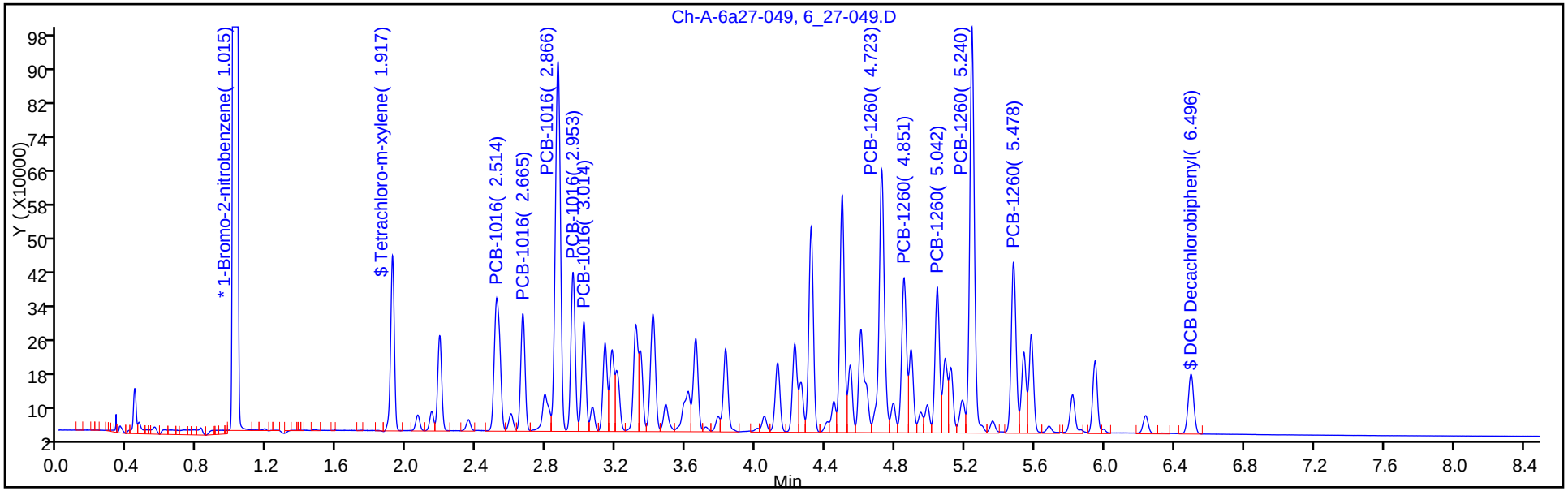
Report Date: 21-Jun-2017 17:49:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

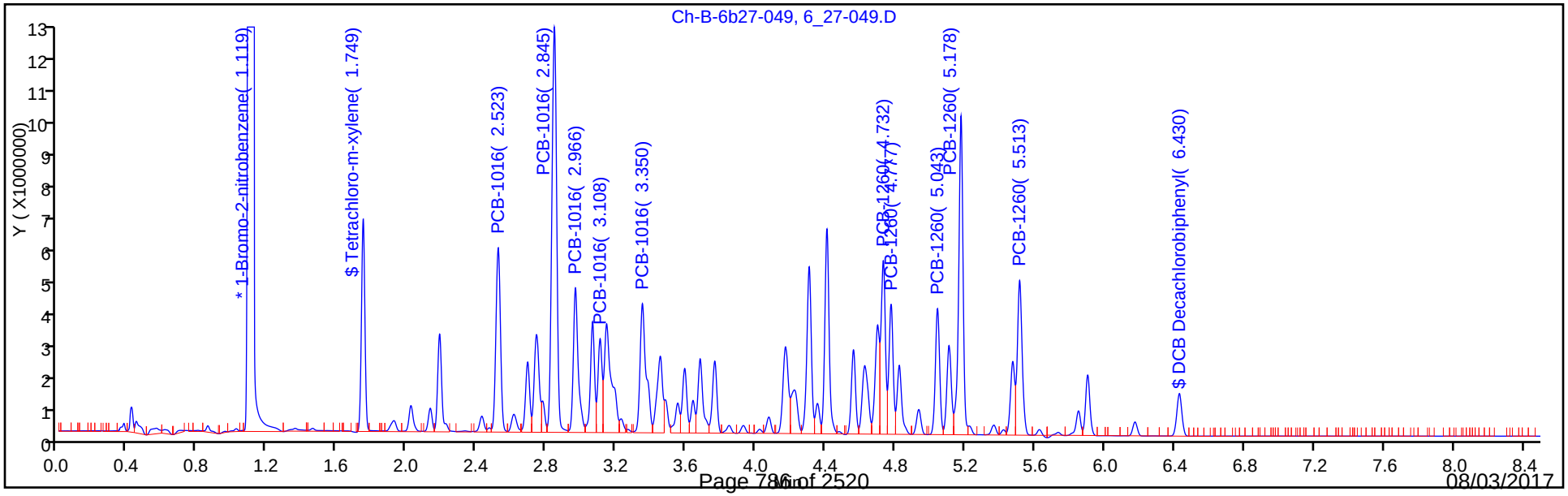
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D

Injection Date:	21-Jun-2017 11:54:18	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

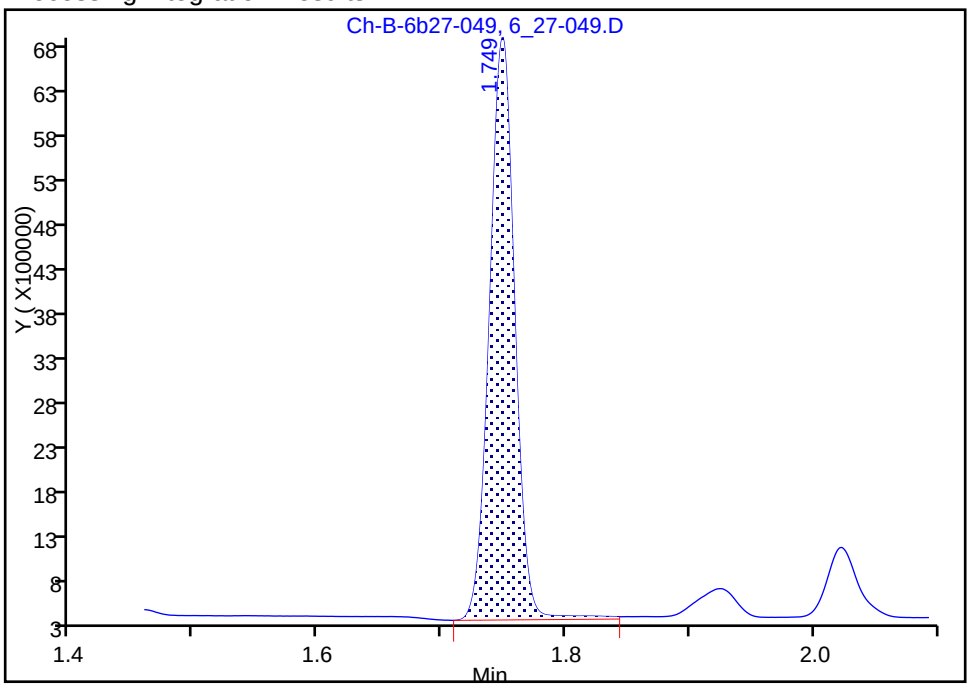
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D
Injection Date: 21-Jun-2017 11:54:18 Instrument ID: HP6890-6
Lims ID: IC 6
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

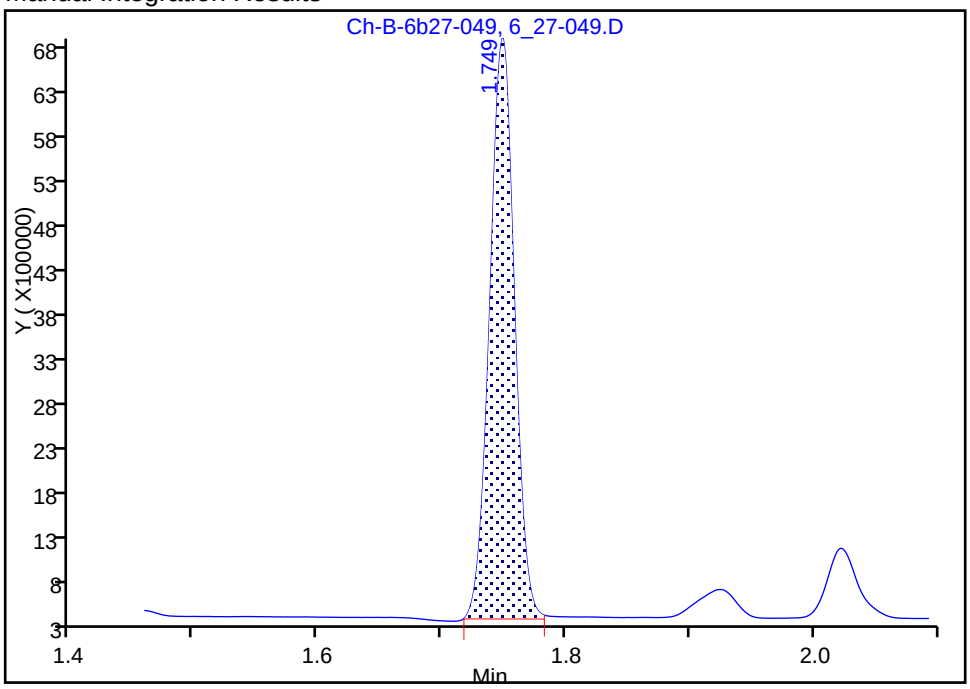
Processing Integration Results

RT: 1.75
Area: 9265230
Amount: 0.025451
Amount Units: ng/uL



Manual Integration Results

RT: 1.75
Area: 9045416
Amount: 0.025698
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:10:09
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D

Injection Date: 21-Jun-2017 11:54:18 Instrument ID: HP6890-6

Lims ID: IC 6

Client ID:

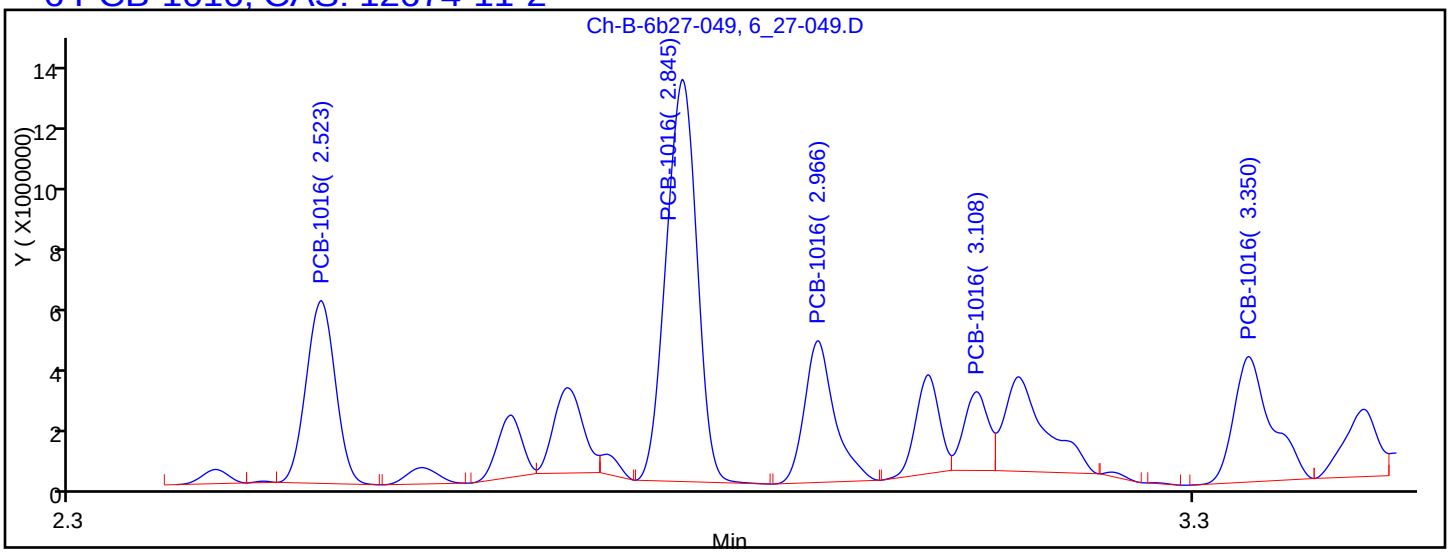
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

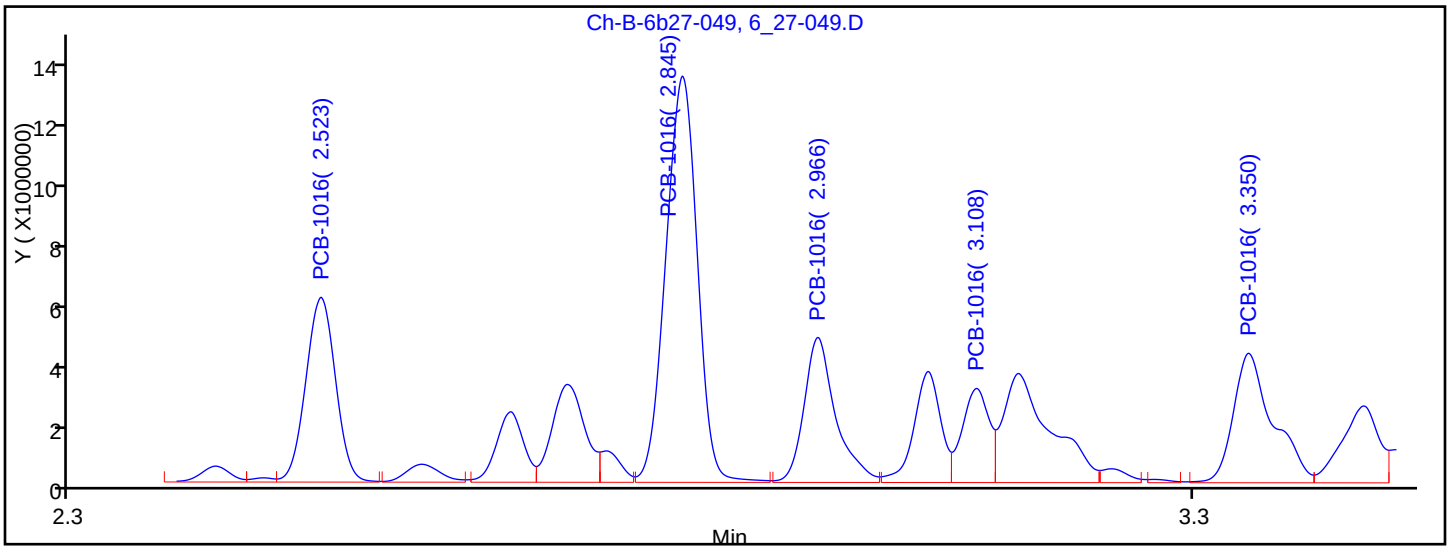
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.523	Response = 10186031
2.845	Response = 23674479
2.966	Response = 8131200
3.108	Response = 3704291
3.350	Response = 8931015



Manual Integration Results

2.523	Response = 10501473	M
2.845	Response = 24467023	M
2.966	Response = 8769474	M
3.108	Response = 4823283	M
3.350	Response = 9802883	M

Reviewer: owenj, 21-Jun-2017 16:10:09

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D

Injection Date: 21-Jun-2017 11:54:18 Instrument ID: HP6890-6

Lims ID: IC 6

Client ID:

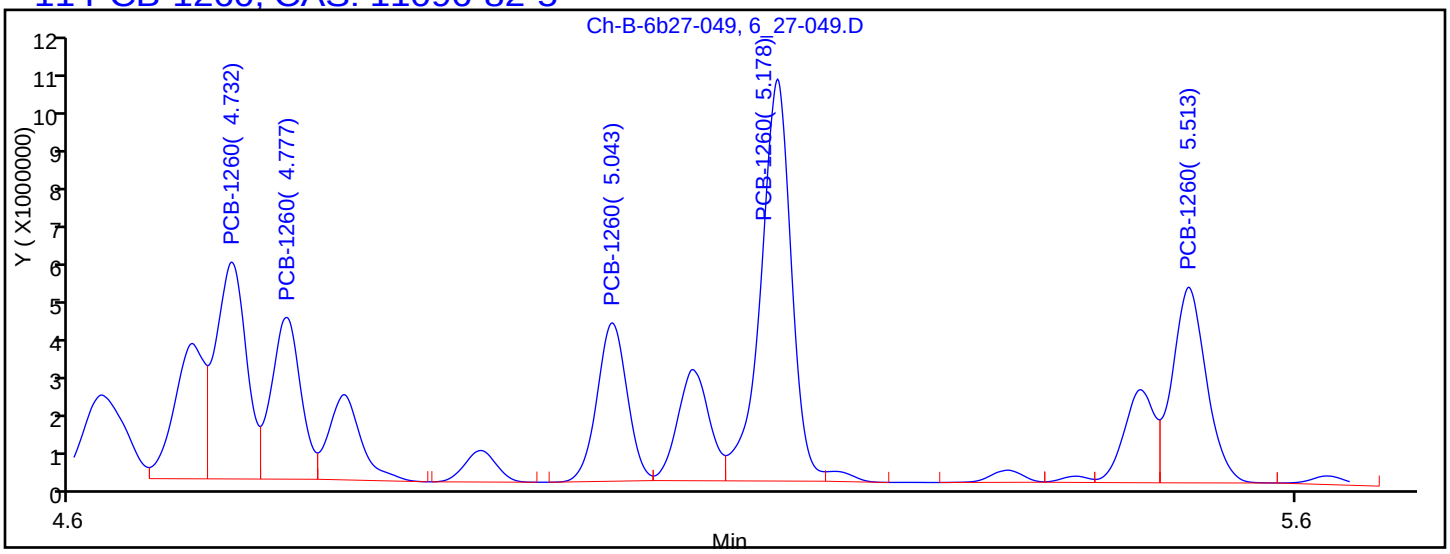
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

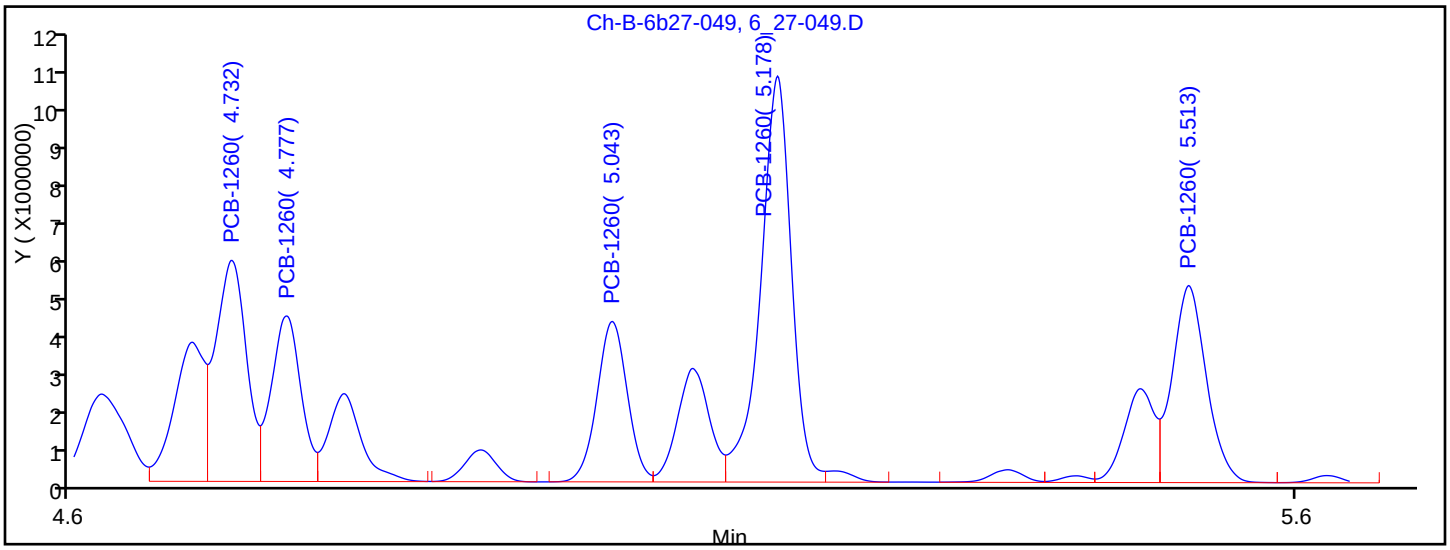
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.732	Response = 9208691
4.777	Response = 6592826
5.043	Response = 6612212
5.178	Response = 17116154
5.513	Response = 9217024



Manual Integration Results

4.732	Response = 9385624	M
4.777	Response = 6773657	M
5.043	Response = 6711652	M
5.178	Response = 17282478	M
5.513	Response = 9228291	M

Reviewer: owenj, 21-Jun-2017 16:10:06

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

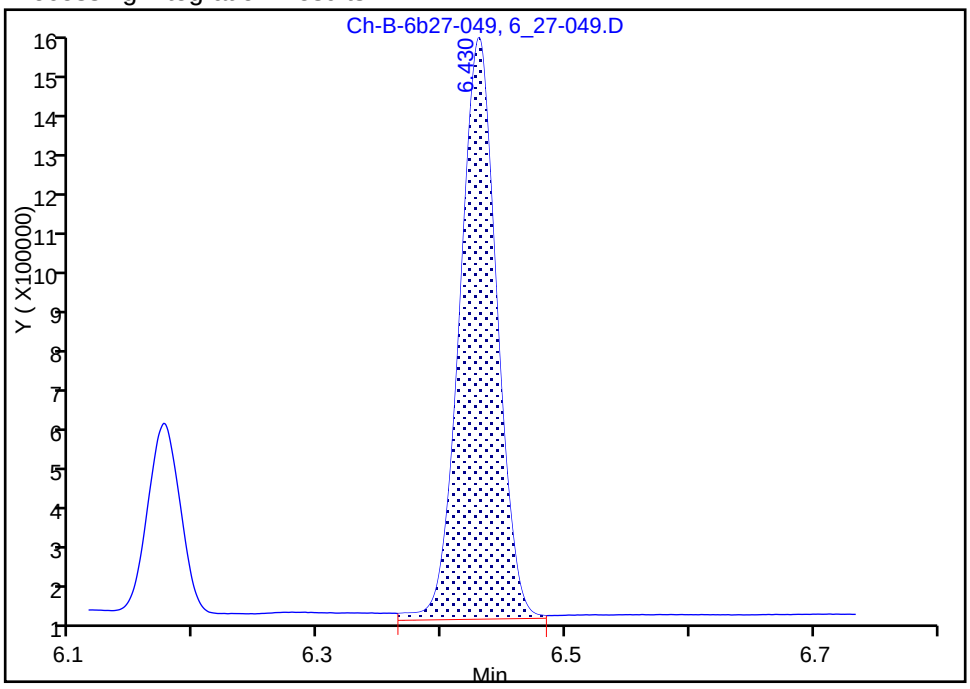
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-049.D
Injection Date: 21-Jun-2017 11:54:18 Instrument ID: HP6890-6
Lims ID: IC 6
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

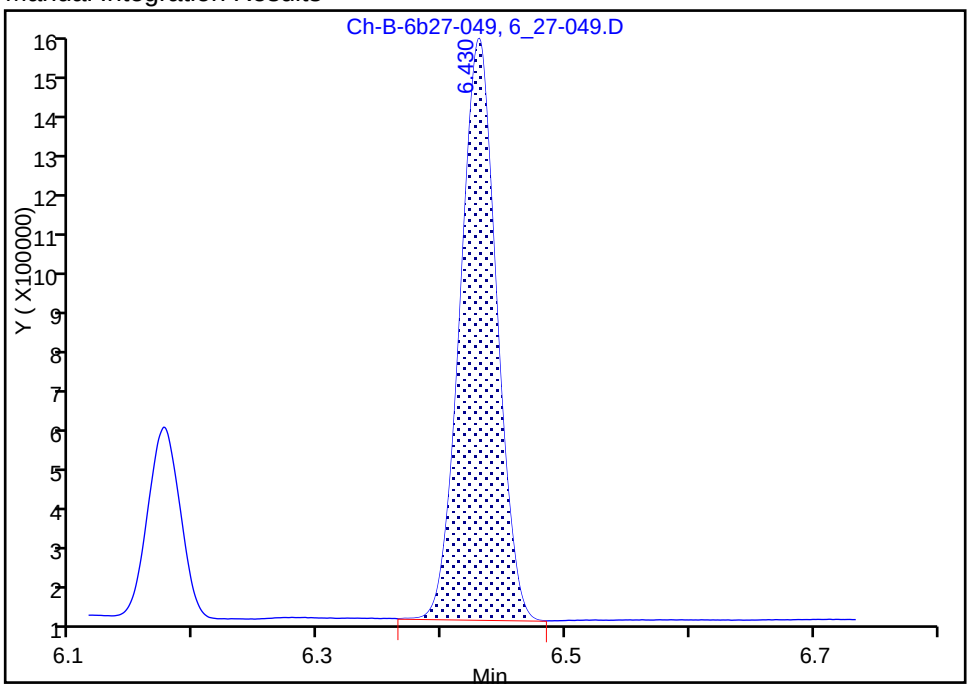
Processing Integration Results

RT: 6.43
Area: 2756810
Amount: 0.026302
Amount Units: ng/uL



Manual Integration Results

RT: 6.43
Area: 2685743
Amount: 0.025996
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:02:26
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 21-Jun-2017 12:10:09 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:49:48 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 16:04:09

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.017	1.017	0.000	13763753	0.5000	0.5000	
2	1.121	1.121	0.000	183595035	0.5000	0.5000	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	298711	0.0125	0.0126	M
2	1.749	1.749	0.000	4824342	0.0125	0.0131	M
						RPD = 3.75	
6 PCB-1016							M
1	2.516	2.516	0.000	367113	0.5000	0.5099	M
1	2.666	2.666	0.000	244159	0.5000	0.5209	M
1	2.868	2.868	0.000	893816	0.5000	0.5059	M
1	2.953	2.953	0.000	325425	0.5000	0.5126	M
1	3.015	3.015	0.000	219328	0.5000	0.5071	M
		Average of Peak Amounts =				0.5113	
2	2.523	2.523	0.000	5909200	0.5000	0.5529	M
2	2.845	2.845	0.000	12665351	0.5000	0.4943	M
2	2.966	2.966	0.000	4822591	0.5000	0.5344	M
2	3.108	3.108	0.000	2674791	0.5000	0.5333	M
2	3.351	3.351	0.000	5449823	0.5000	0.5328	M
		Average of Peak Amounts =				0.5295	
						RPD = 3.51	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.723	4.723	0.000	698790	0.5000	0.5217	M
1	4.851	4.851	0.000	386848	0.5000	0.4707	M
1	5.041	5.041	0.000	334464	0.5000	0.5268	M
1	5.241	5.241	0.000	922965	0.5000	0.5099	M
1	5.478	5.478	0.000	413752	0.5000	0.5239	M
		Average of Peak Amounts =				0.5106	
2	4.732	4.732	0.000	4778229	0.5000	0.4915	M
2	4.776	4.776	0.000	3594361	0.5000	0.5043	M
2	5.042	5.042	0.000	3573999	0.5000	0.5037	M
2	5.177	5.177	0.000	8838477	0.5000	0.4863	M
2	5.513	5.513	0.000	4763052	0.5000	0.4951	M
		Average of Peak Amounts =				0.4962	
						RPD = 2.86	
$ 15 DCB Decachlorobiphenyl							M
1	6.497	6.497	0.000	160277	0.0125	0.0131	M
2	6.428	6.428	0.000	1474140	0.0125	0.0134	
						RPD = 2.51	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00006 Amount Added: 1.00 Units: mL

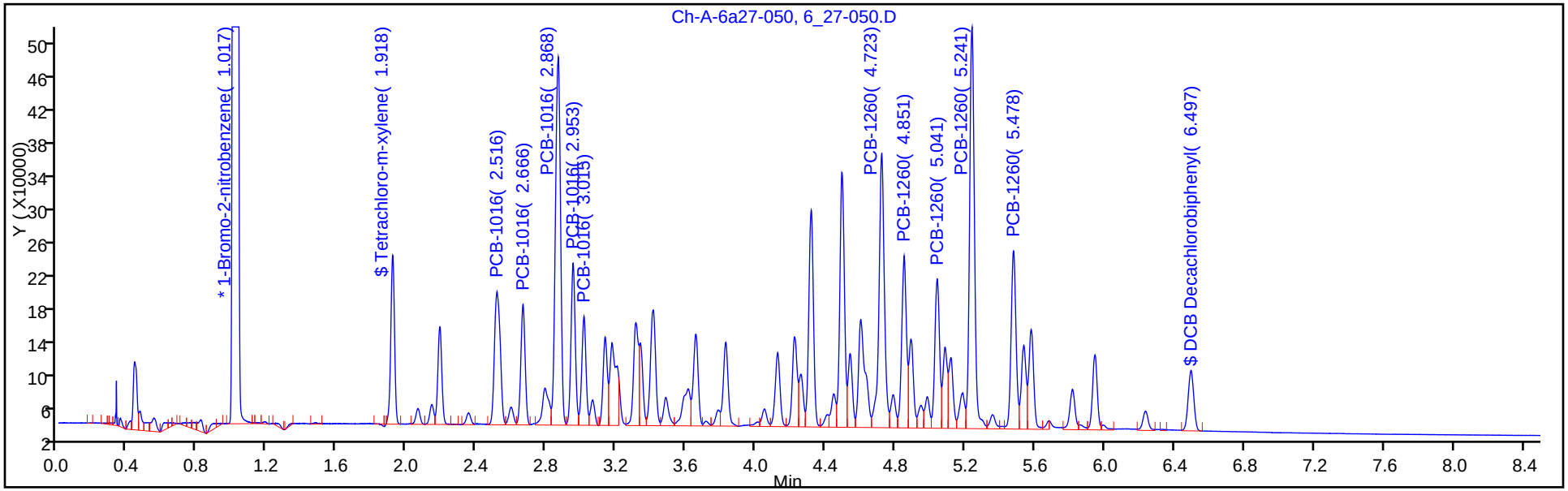
Report Date: 21-Jun-2017 17:49:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

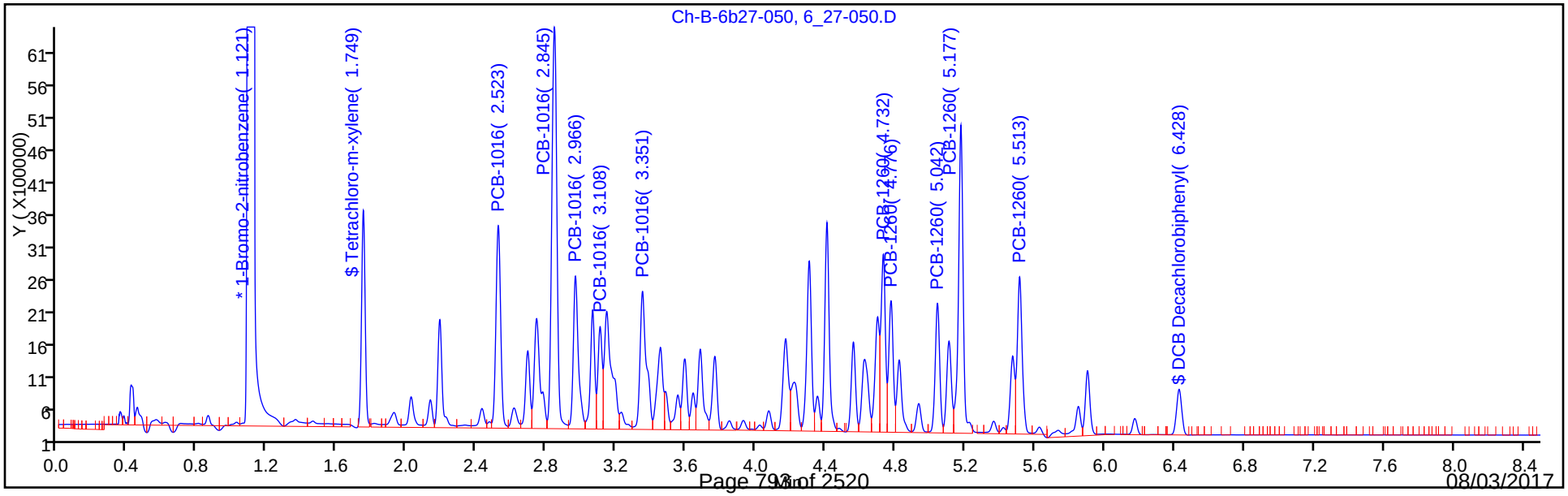
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D

Injection Date:	21-Jun-2017 12:10:09	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

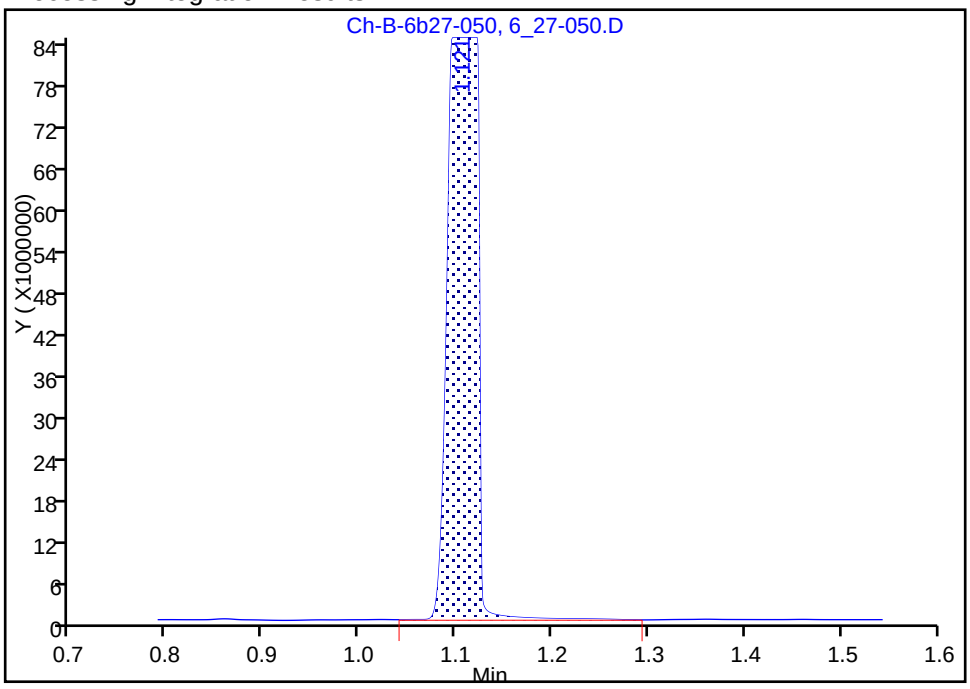
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D
Injection Date: 21-Jun-2017 12:10:09 Instrument ID: HP6890-6
Lims ID: ICIS 5
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

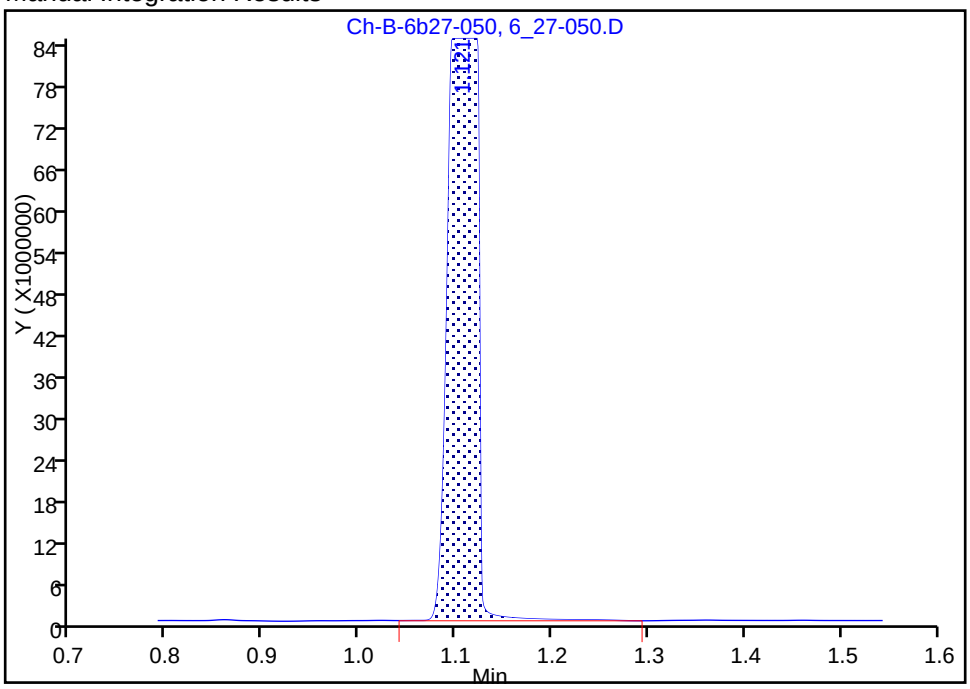
Processing Integration Results

RT: 1.12
Area: 184280890
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.12
Area: 183595035
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:09:37
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

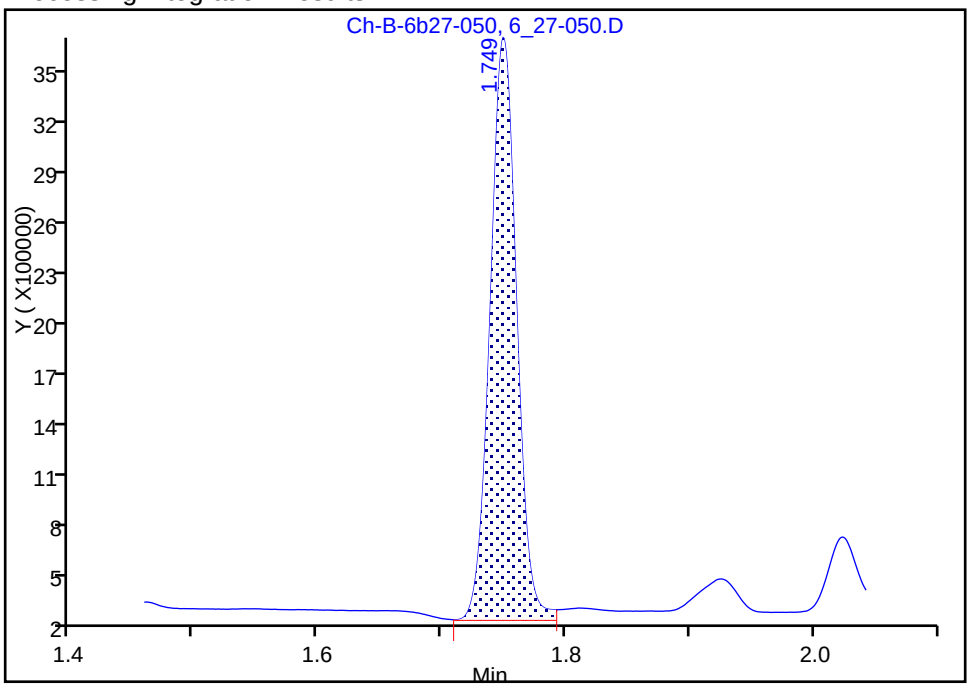
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D
Injection Date: 21-Jun-2017 12:10:09 Instrument ID: HP6890-6
Lims ID: ICIS 5
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

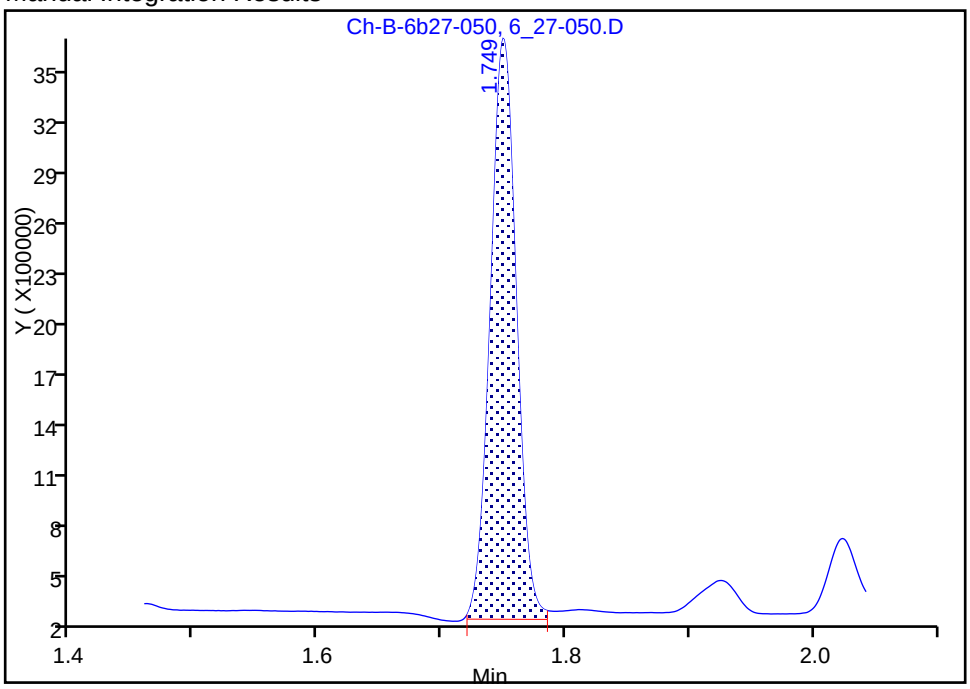
Processing Integration Results

RT: 1.75
Area: 4919357
Amount: 0.012739
Amount Units: ng/uL



Manual Integration Results

RT: 1.75
Area: 4824342
Amount: 0.013095
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:09:37
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D

Injection Date: 21-Jun-2017 12:10:09 Instrument ID: HP6890-6

Lims ID: ICIS 5

Client ID:

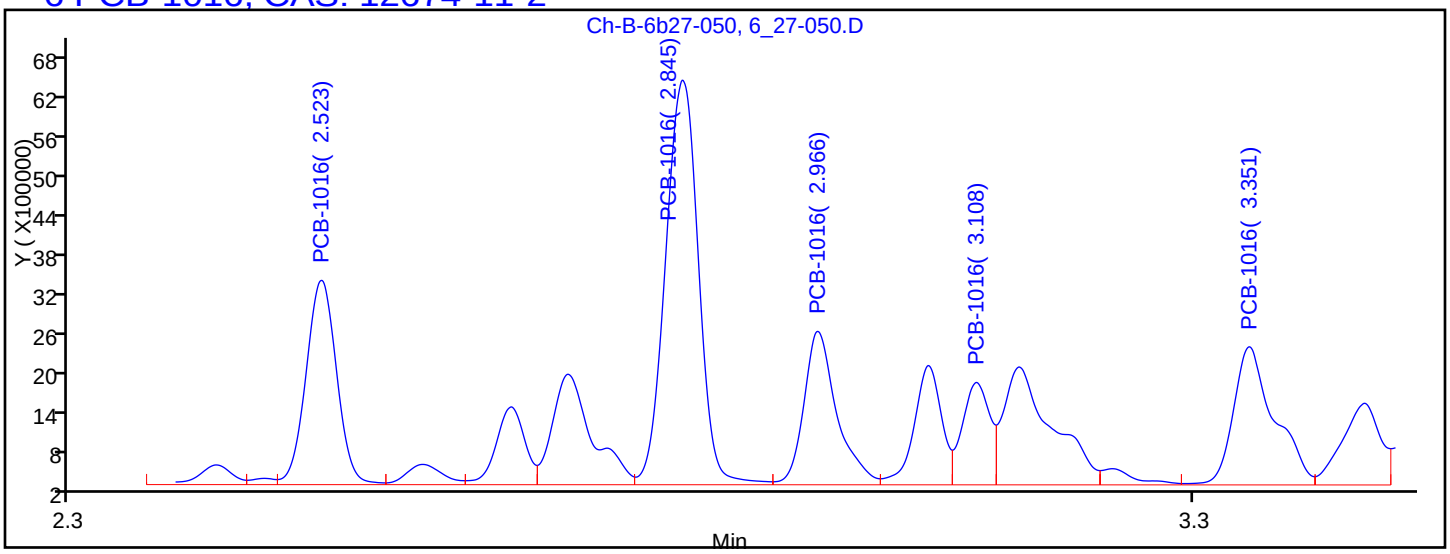
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

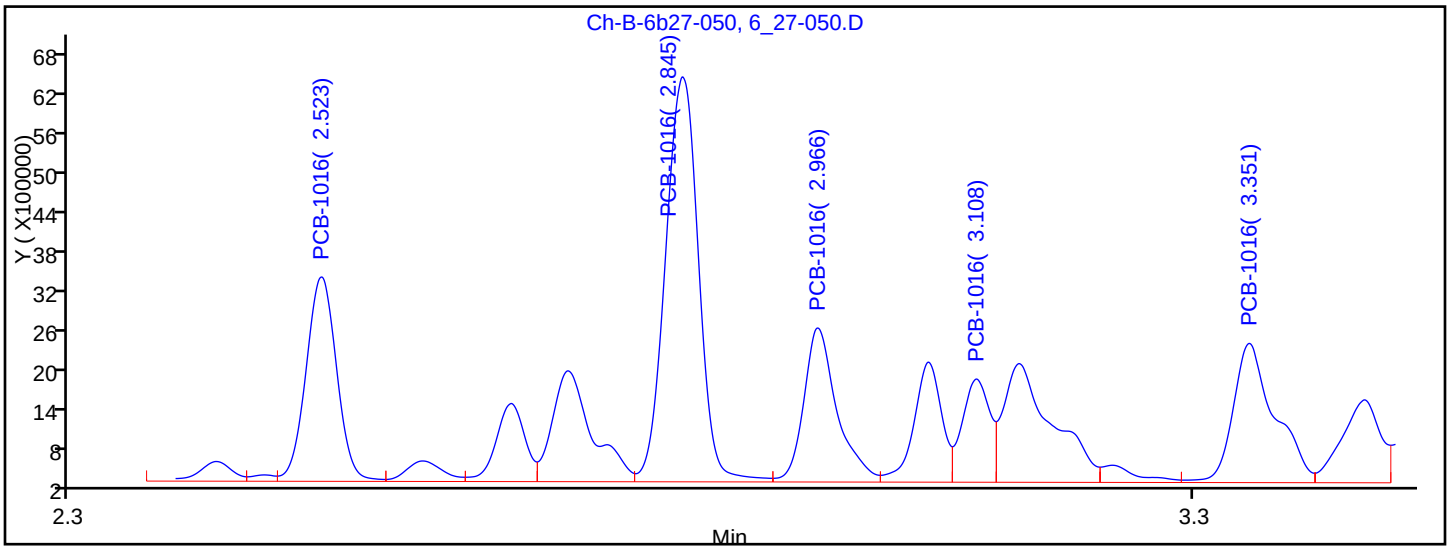
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.523	Response = 5896310
2.845	Response = 12601882
2.966	Response = 4761618
3.108	Response = 2644744
3.351	Response = 5325102



Manual Integration Results

2.523	Response = 5909200	M
2.845	Response = 12665351	M
2.966	Response = 4822591	M
3.108	Response = 2674791	M
3.351	Response = 5449823	M

Reviewer: owenj, 21-Jun-2017 16:09:37

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-050.D

Injection Date: 21-Jun-2017 12:10:09 Instrument ID: HP6890-6

Lims ID: ICIS 5

Client ID:

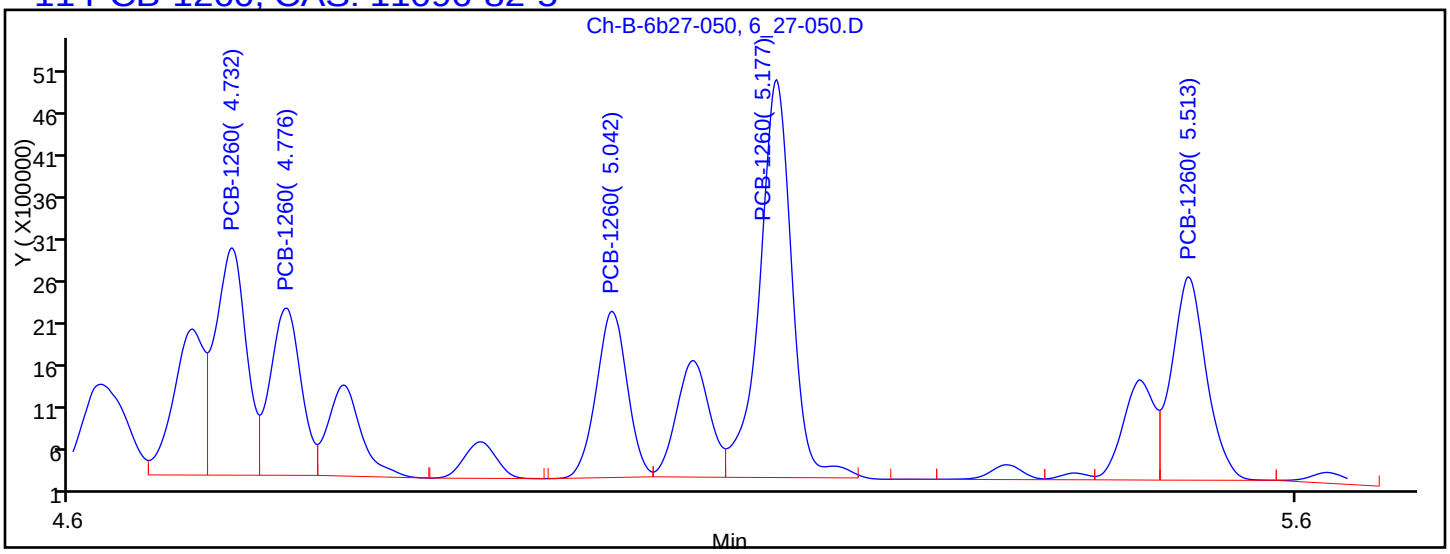
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

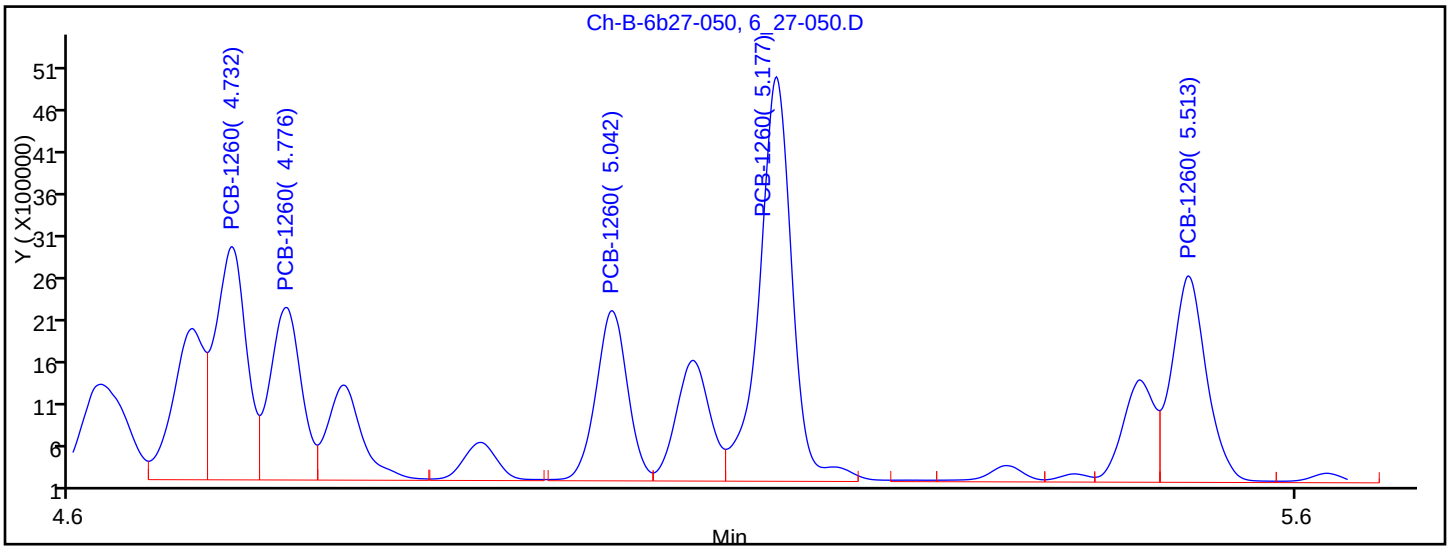
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.732	Response = 4664745
4.776	Response = 3467797
5.042	Response = 3442880
5.177	Response = 8626720
5.513	Response = 4679042



Manual Integration Results

4.732	Response = 4778229	M
4.776	Response = 3594361	M
5.042	Response = 3573999	M
5.177	Response = 8838477	M
5.513	Response = 4763052	M

Reviewer: owenj, 21-Jun-2017 16:09:33

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-Jun-2017 12:25:58 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:49:53 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 13:40:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.017	1.017	0.000	14100191	0.5000	0.5000	M
2	1.121	1.121	0.000	181326251	0.5000	0.5000	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	111418	0.005000	0.004605	M
2	1.749	1.749	0.000	1952426	0.005000	0.005169	M
						RPD = 11.53	
6 PCB-1016							M
1	2.515	2.516	-0.001	139382	0.2000	0.1890	M
1	2.666	2.666	0.000	97155	0.2000	0.1949	M
1	2.867	2.868	-0.001	349268	0.2000	0.1910	M
1	2.952	2.953	0.000	130990	0.2000	0.1938	M
1	3.014	3.015	-0.001	88073	0.2000	0.1913	M
		Average of Peak Amounts =				0.1920	
2	2.523	2.523	0.000	2615675	0.2000	0.2280	M
2	2.845	2.845	0.000	5309741	0.2000	0.2001	M
2	2.966	2.966	0.000	2108872	0.2000	0.2212	M
2	3.107	3.108	-0.001	1175608	0.2000	0.2210	M
2	3.349	3.351	-0.002	2446979	0.2000	0.2259	M
		Average of Peak Amounts =				0.2192	
						RPD = 13.25	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.723	4.723	-0.001	275524	0.2000	0.1968	M
1	4.849	4.851	-0.002	155691	0.2000	0.1849	M
1	5.041	5.041	0.000	135835	0.2000	0.2029	M
1	5.239	5.241	-0.002	363959	0.2000	0.1945	M
1	5.478	5.478	0.000	167198	0.2000	0.2018	M
		Average of Peak Amounts =				0.1962	
2	4.732	4.732	0.000	2039725	0.2000	0.2041	M
2	4.775	4.776	-0.001	1563184	0.2000	0.2101	M
2	5.043	5.042	0.000	1575351	0.2000	0.2143	M
2	5.177	5.177	0.000	3566953	0.2000	0.1946	M
2	5.513	5.513	0.000	1975408	0.2000	0.1999	M
		Average of Peak Amounts =				0.2046	
						RPD = 4.21	
$ 15 DCB Decachlorobiphenyl							
1	6.497	6.497	0.000	63195	0.005000	0.004972	
2	6.428	6.428	0.000	666458	0.005000	0.005711	
						RPD = 13.84	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00006 Amount Added: 1.00 Units: mL

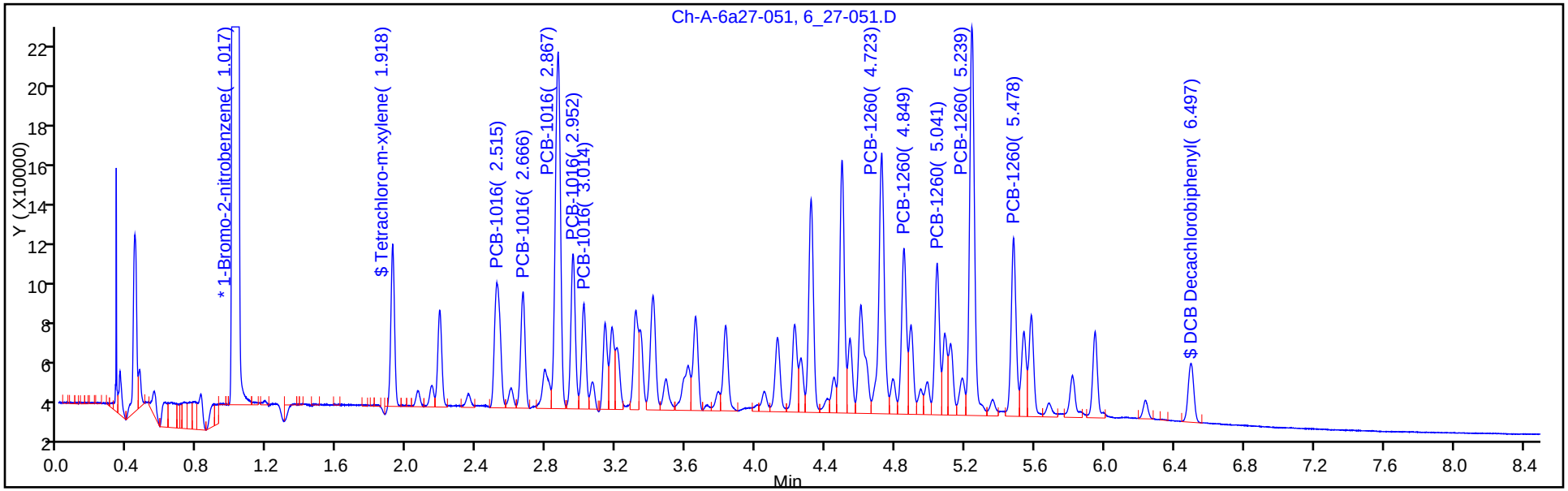
Report Date: 21-Jun-2017 17:49:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

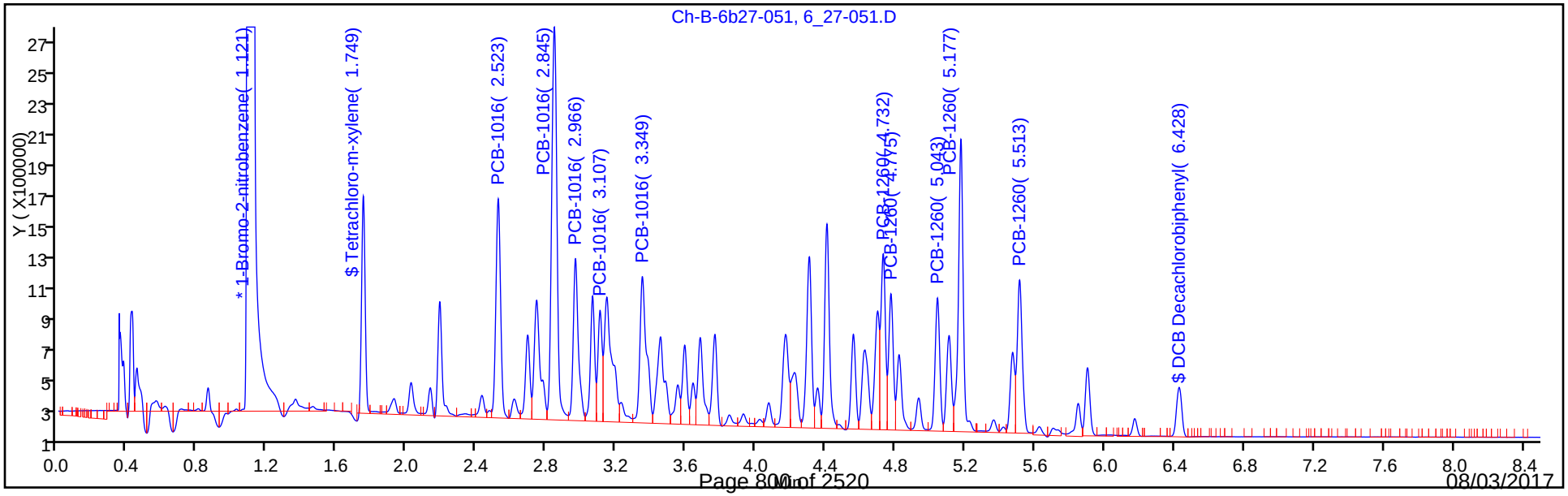
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D

Injection Date:	21-Jun-2017 12:25:58	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

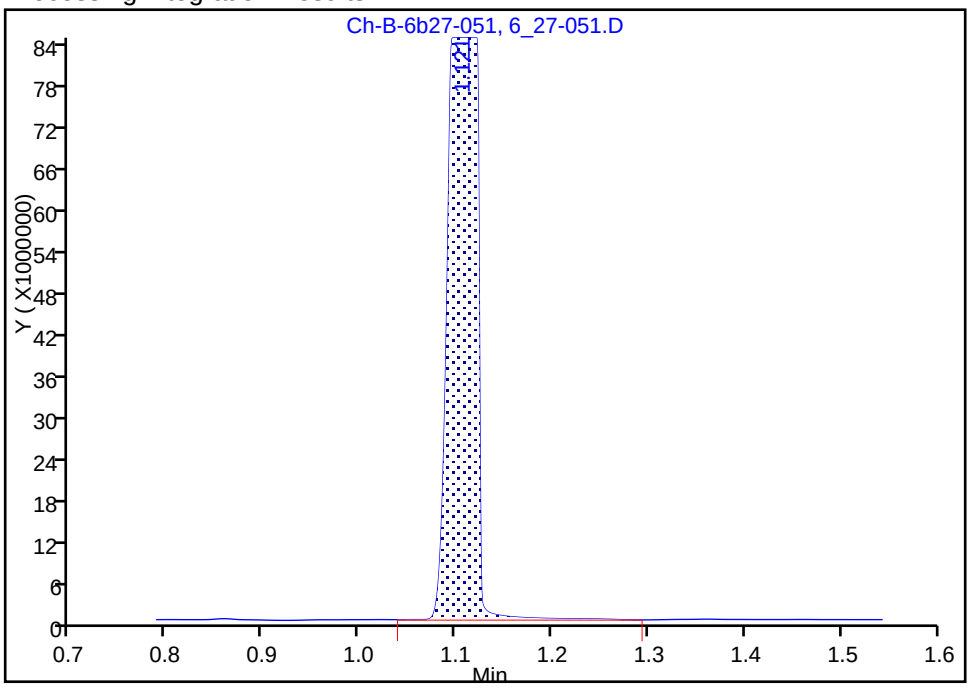
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D
Injection Date: 21-Jun-2017 12:25:58 Instrument ID: HP6890-6
Lims ID: IC 4
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

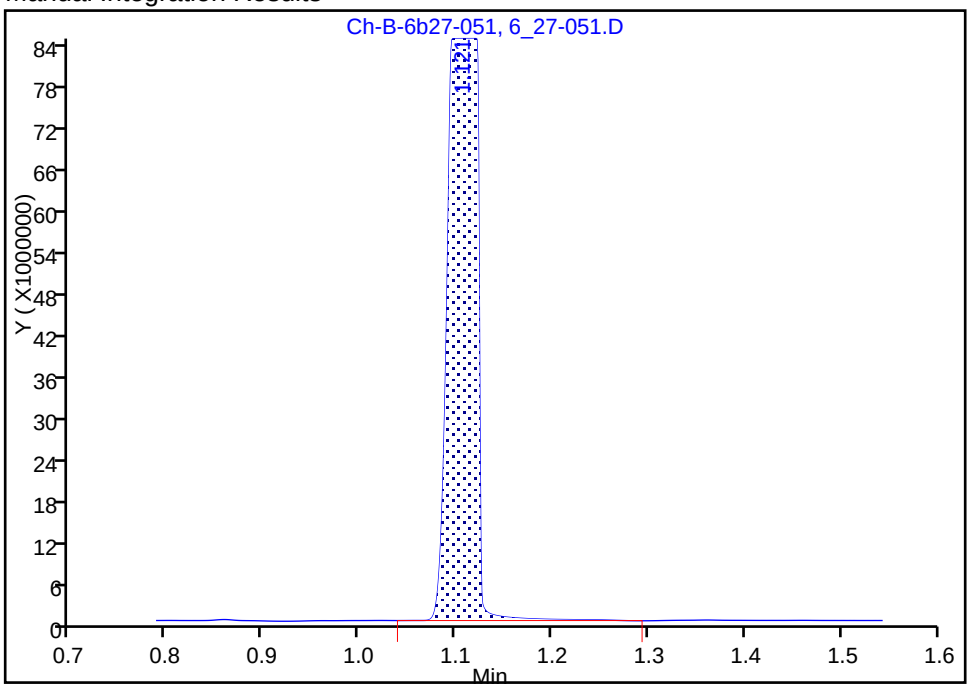
Processing Integration Results

RT: 1.12
Area: 182300299
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.12
Area: 181326251
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:09:04
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

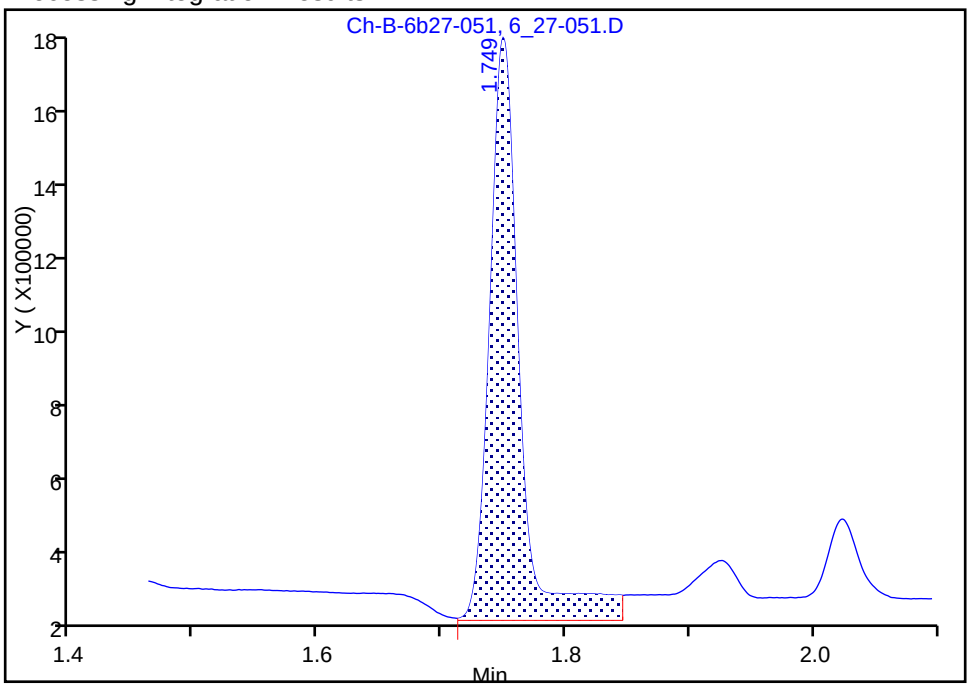
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D
Injection Date: 21-Jun-2017 12:25:58 Instrument ID: HP6890-6
Lims ID: IC 4
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

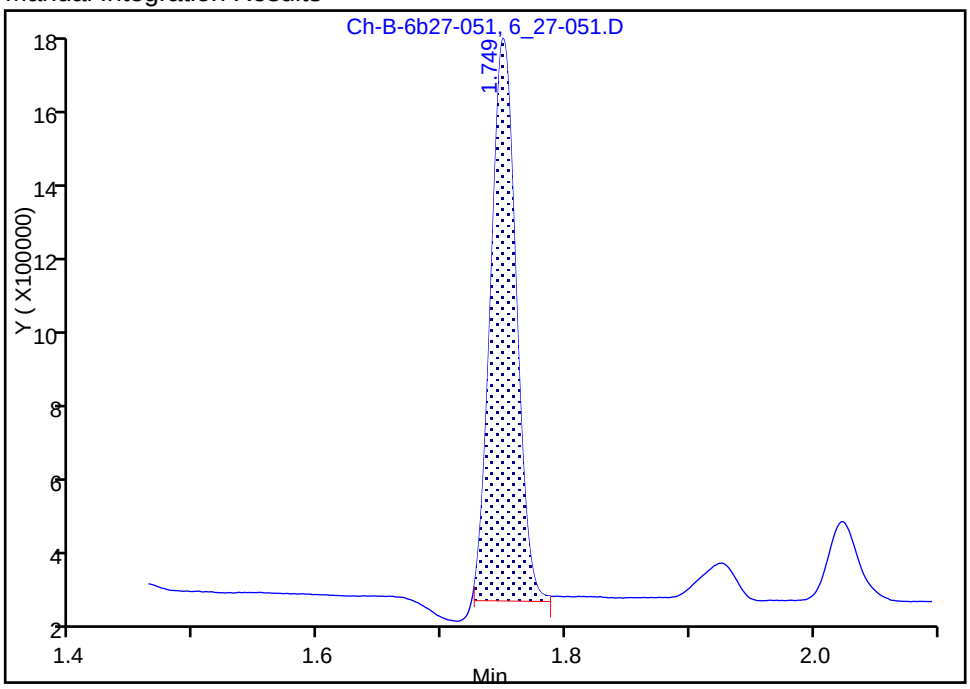
Processing Integration Results

RT: 1.75
Area: 2397097
Amount: 0.005917
Amount Units: ng/uL



Manual Integration Results

RT: 1.75
Area: 1952426
Amount: 0.005169
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:09:01
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D

Injection Date: 21-Jun-2017 12:25:58 Instrument ID: HP6890-6

Lims ID: IC 4

Client ID:

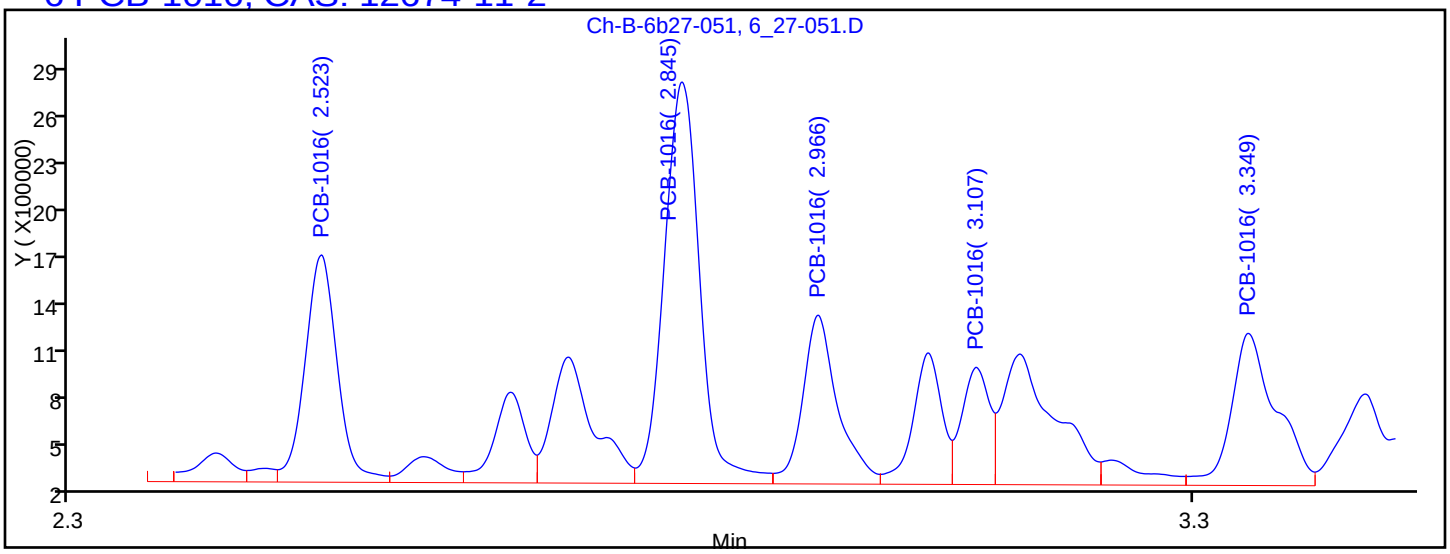
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

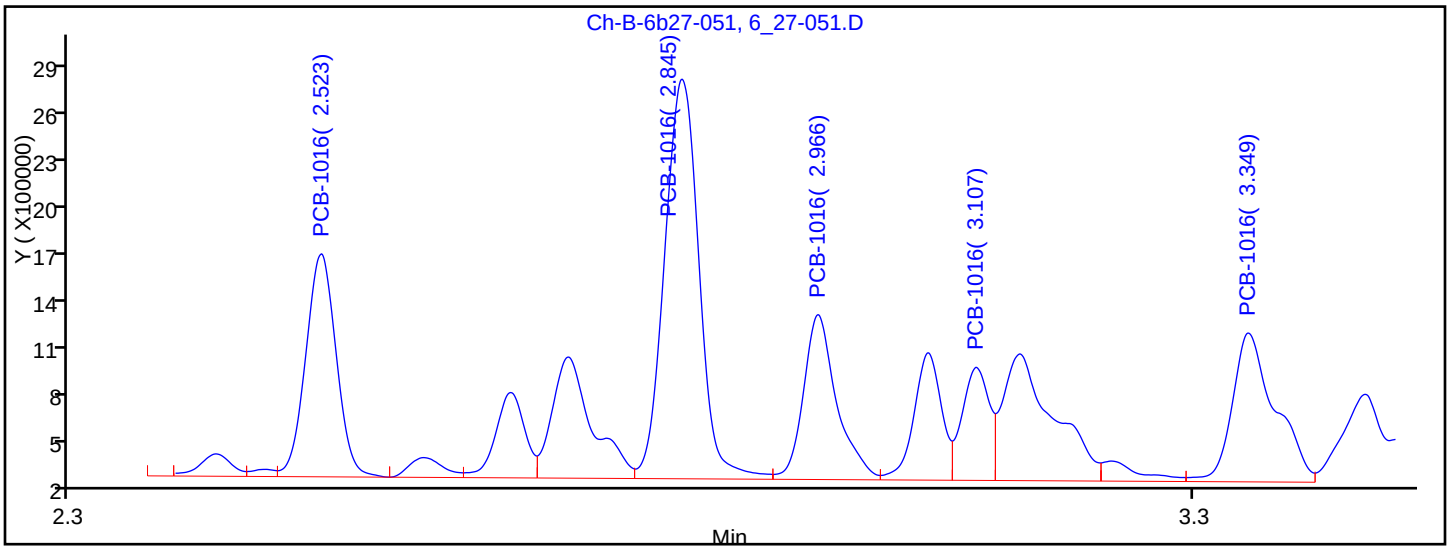
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.523	Response = 2856899
2.845	Response = 5575982
2.966	Response = 2307679
3.107	Response = 1251265
3.349	Response = 2652157



Manual Integration Results

2.523	Response = 2615675	M
2.845	Response = 5309741	M
2.966	Response = 2108872	M
3.107	Response = 1175608	M
3.349	Response = 2446979	M

Reviewer: owenj, 21-Jun-2017 16:09:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-051.D

Injection Date: 21-Jun-2017 12:25:58 Instrument ID: HP6890-6

Lims ID: IC 4

Client ID:

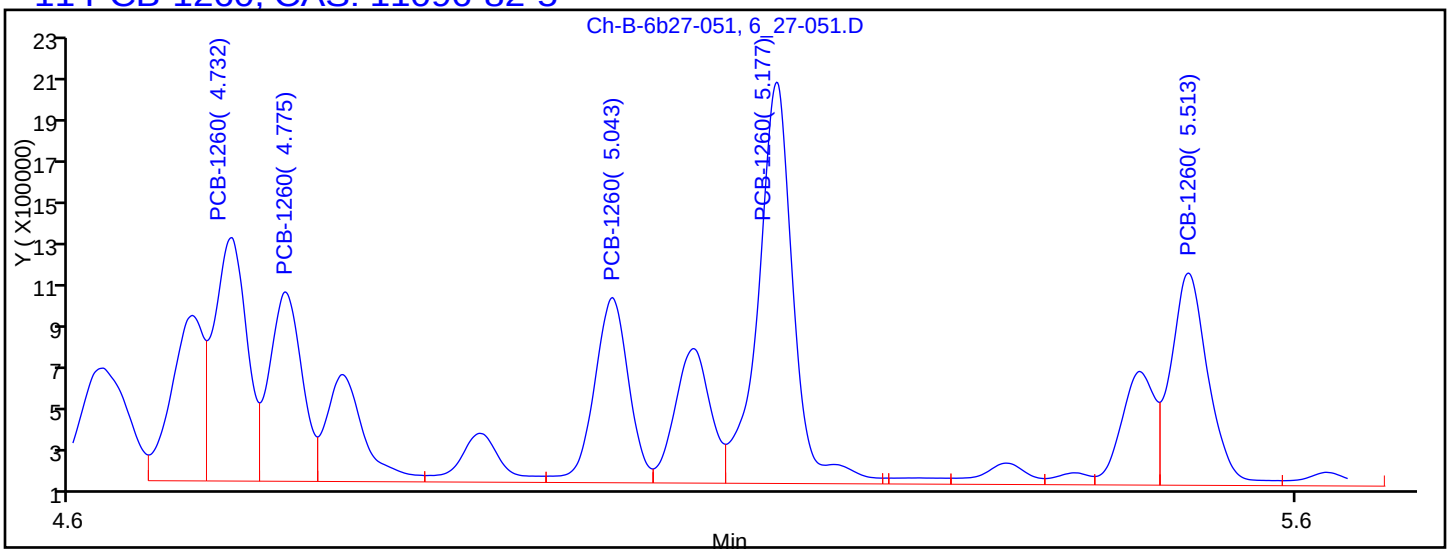
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

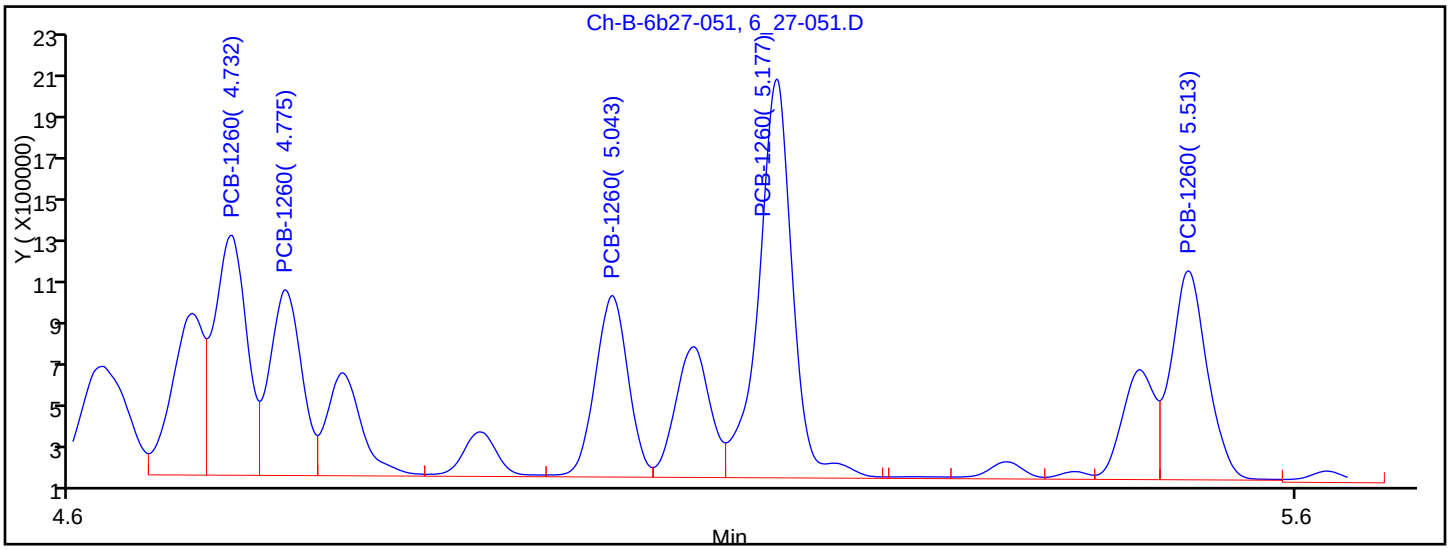
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.732	Response = 2095150
4.775	Response = 1623688
5.043	Response = 1684246
5.177	Response = 3724191
5.513	Response = 2094007



Manual Integration Results

4.732	Response = 2039725	M
4.775	Response = 1563184	M
5.043	Response = 1575351	M
5.177	Response = 3566953	M
5.513	Response = 1975408	M

Reviewer: owenj, 21-Jun-2017 16:08:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 21-Jun-2017 12:41:51 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:49:57 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 13:40:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.017	1.017	0.000	13689158	0.5000	0.5000	M
2	1.121	1.121	0.000	183299744	0.5000	0.5000	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	52240	0.002500	0.002235	M
2	1.749	1.749	0.000	1021361	0.002500	0.002514	M
						RPD = 11.76	
6 PCB-1016							M
1	2.518	2.516	0.002	68344	0.1000	0.0954	M
1	2.664	2.666	-0.002	48077	0.1000	0.0934	M
1	2.865	2.868	-0.003	167813	0.1000	0.0929	M
1	2.952	2.953	0.000	65251	0.1000	0.0933	M
1	3.015	3.015	0.000	44395	0.1000	0.0934	M
		Average of Peak Amounts =				0.0937	
2	2.523	2.523	-0.001	1455185	0.1000	0.1094	M
2	2.846	2.845	0.001	2849445	0.1000	0.0983	M
2	2.967	2.966	0.001	1182495	0.1000	0.1104	M
2	3.108	3.108	0.000	654695	0.1000	0.1085	M
2	3.350	3.351	-0.001	1377773	0.1000	0.1125	M
		Average of Peak Amounts =				0.1078	
						RPD = 14.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.722	4.723	-0.001	138714	0.1000	0.0989	M
1	4.851	4.851	0.000	80101	0.1000	0.0980	M
1	5.042	5.041	0.001	71008	0.1000	0.1047	M
1	5.240	5.241	-0.001	184361	0.1000	0.1001	M
1	5.480	5.478	0.002	86595	0.1000	0.1039	M
		Average of Peak Amounts =				0.1011	
2	4.732	4.732	0.000	1060909	0.1000	0.0979	M
2	4.776	4.776	0.000	844546	0.1000	0.1023	M
2	5.042	5.042	0.000	839547	0.1000	0.1040	M
2	5.177	5.177	0.000	1768177	0.1000	0.0919	M
2	5.513	5.513	0.000	1030757	0.1000	0.0965	M
		Average of Peak Amounts =				0.0985	
						RPD = 2.58	
$ 15 DCB Decachlorobiphenyl							
1	6.498	6.497	0.001	31377	0.002500	0.002489	
2	6.428	6.428	0.000	364197	0.002500	0.002719	
						RPD = 8.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00007 Amount Added: 1.00 Units: mL

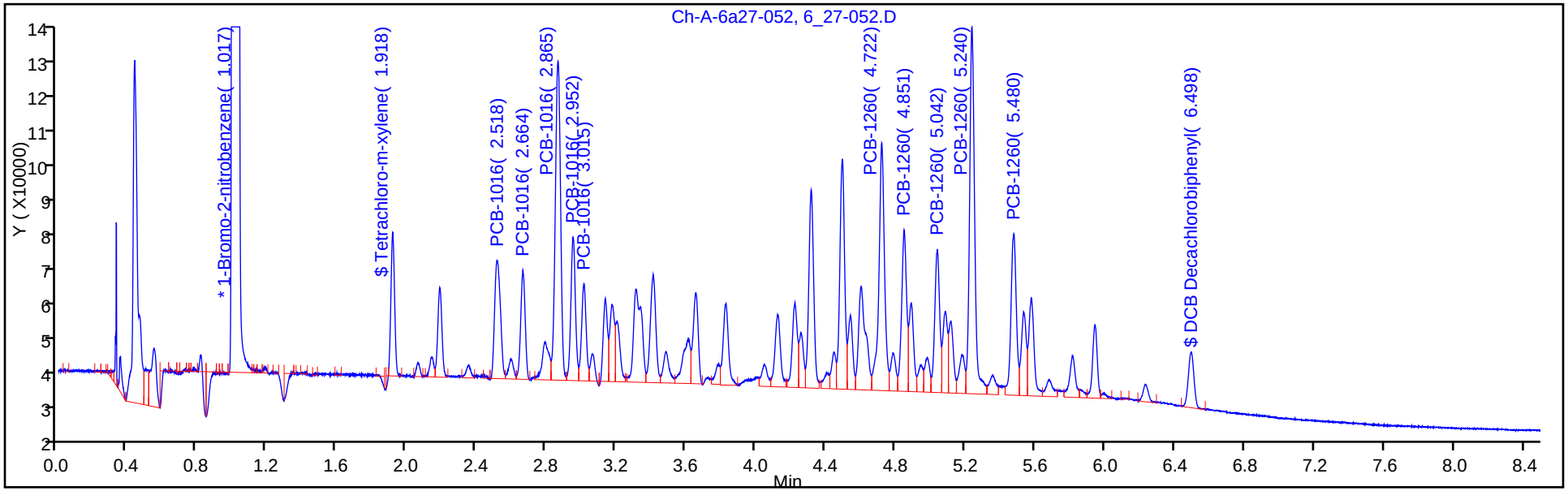
Report Date: 21-Jun-2017 17:49:58 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

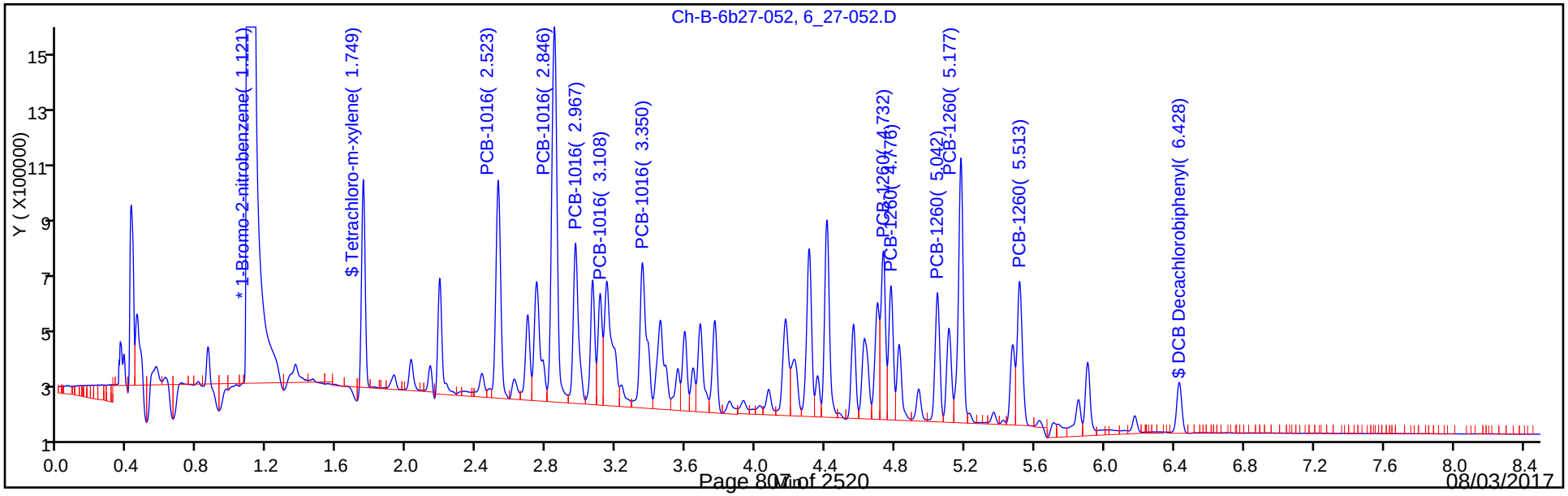
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D

Injection Date:	21-Jun-2017 12:41:51	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

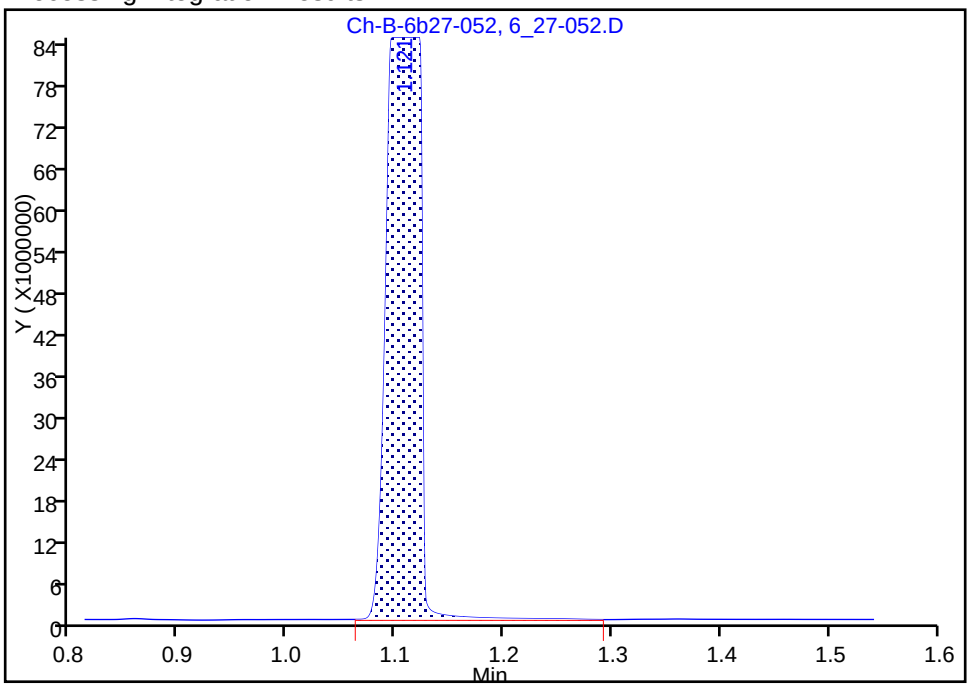
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D
Injection Date: 21-Jun-2017 12:41:51 Instrument ID: HP6890-6
Lims ID: IC 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

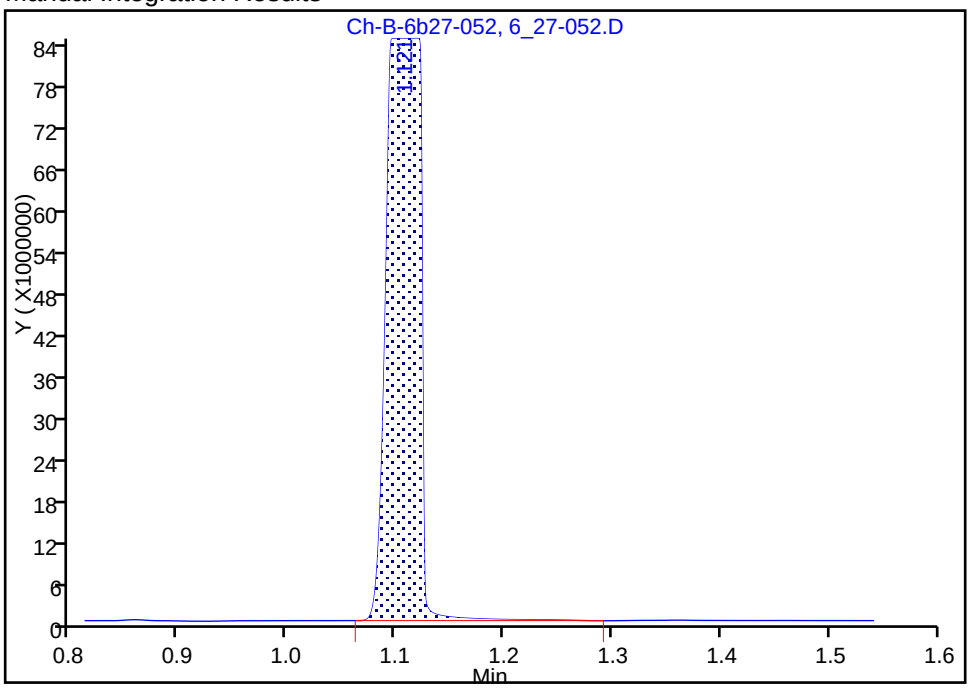
Processing Integration Results

RT: 1.12
Area: 185159631
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.12
Area: 183299744
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:08:36
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

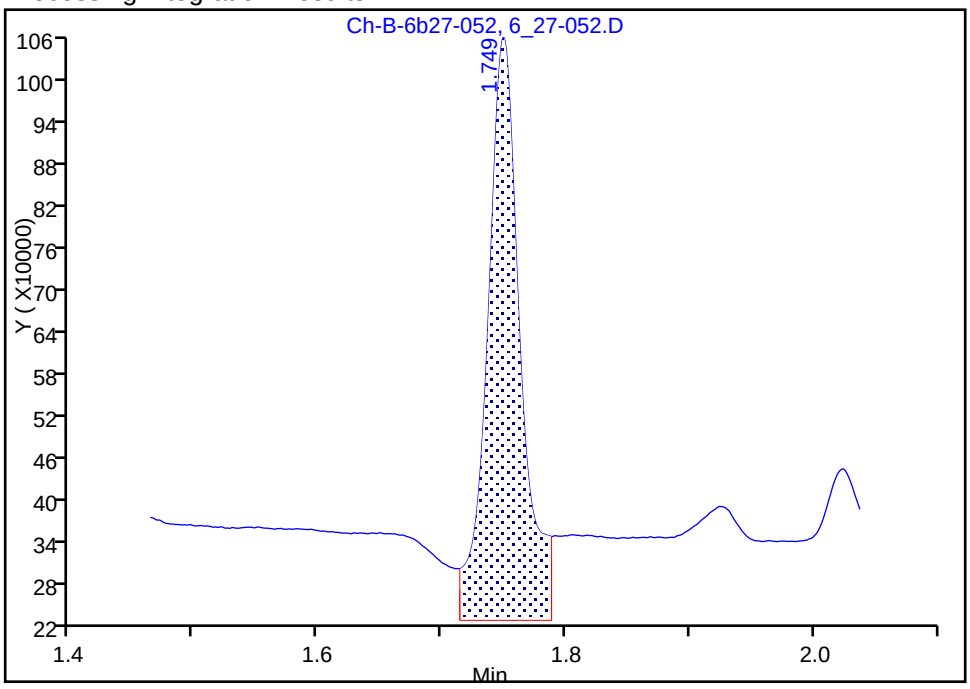
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D
Injection Date: 21-Jun-2017 12:41:51 Instrument ID: HP6890-6
Lims ID: IC 3
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

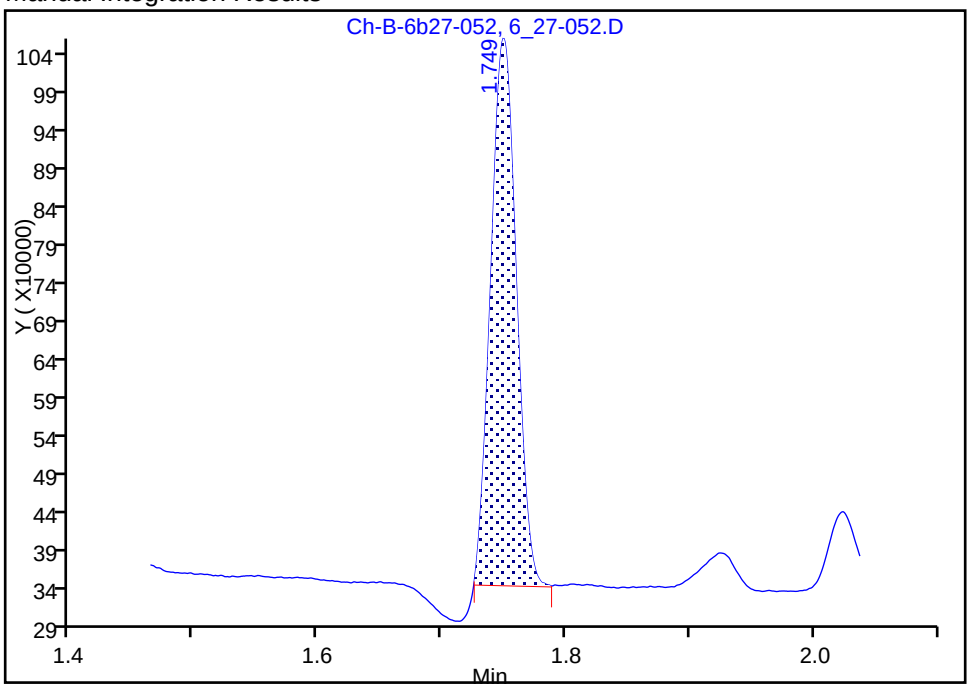
Processing Integration Results

RT: 1.75
Area: 1533209
Amount: 0.003537
Amount Units: ng/uL



Manual Integration Results

RT: 1.75
Area: 1021361
Amount: 0.002514
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:05:40
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:59 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D

Injection Date: 21-Jun-2017 12:41:51 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

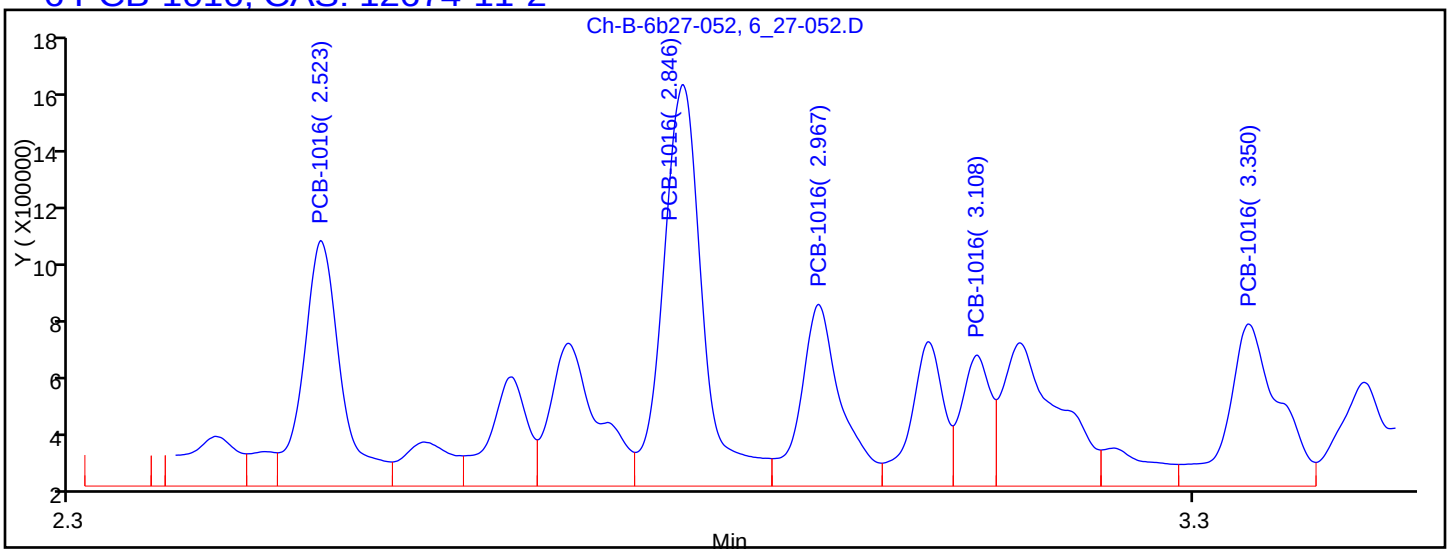
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

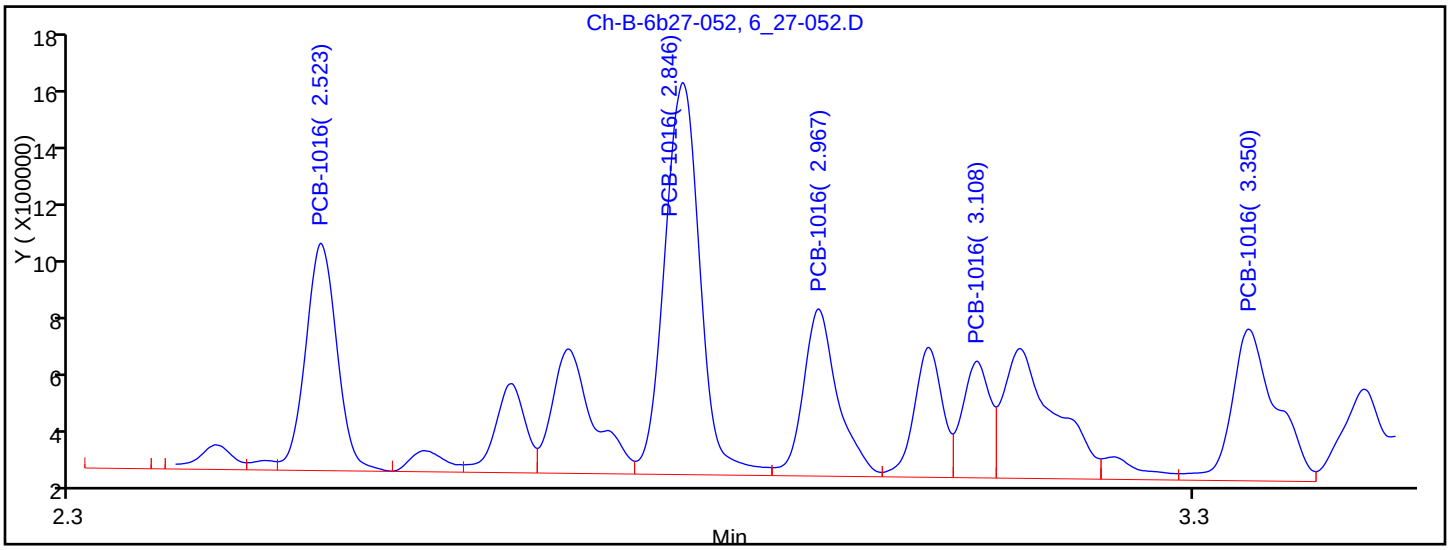
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.523	Response = 1964737
2.846	Response = 3360872
2.967	Response = 1566694
3.108	Response = 792227
3.350	Response = 1745104



Manual Integration Results

2.523	Response = 1455185	M
2.846	Response = 2849445	M
2.967	Response = 1182495	M
3.108	Response = 654695	M
3.350	Response = 1377773	M

Reviewer: owenj, 21-Jun-2017 16:23:43

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:49:59 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-052.D

Injection Date: 21-Jun-2017 12:41:51 Instrument ID: HP6890-6

Lims ID: IC 3

Client ID:

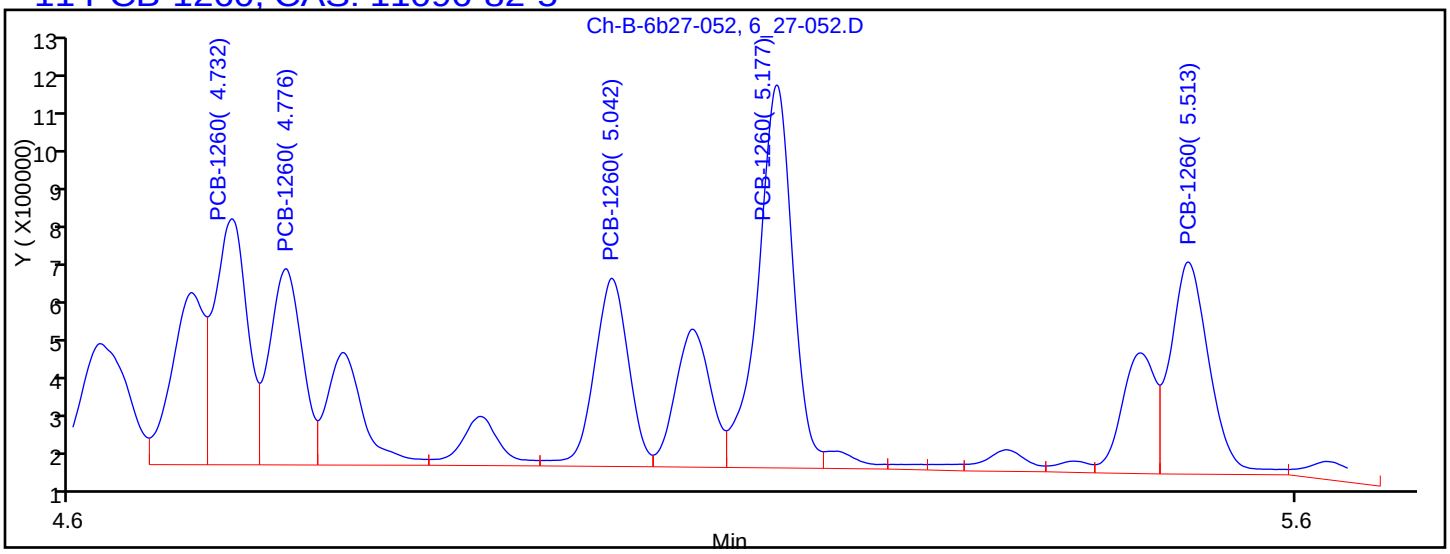
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

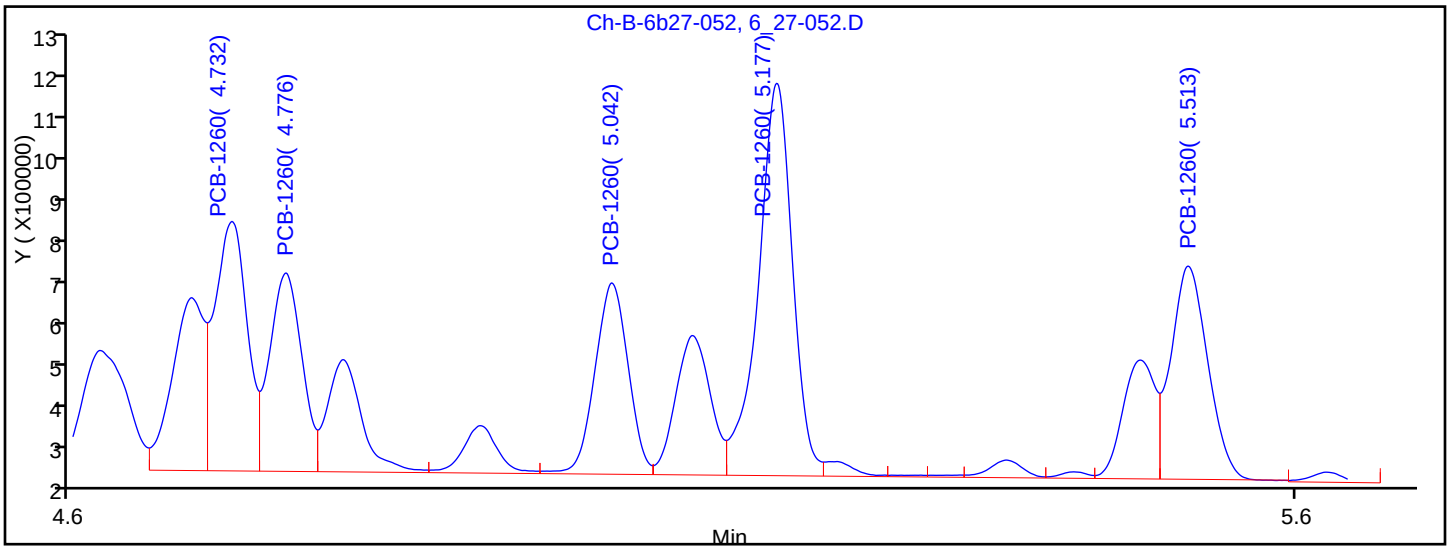
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.732	Response = 1088720
4.776	Response = 873429
5.042	Response = 879698
5.177	Response = 1803313
5.513	Response = 1117328



Manual Integration Results

4.732	Response = 1060909	M
4.776	Response = 844546	M
5.042	Response = 839547	M
5.177	Response = 1768177	M
5.513	Response = 1030757	M

Reviewer: owenj, 21-Jun-2017 16:23:39

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-053.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Jun-2017 12:57:58 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:50:02 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 16:08:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.017	1.017	0.000	13866688	0.5000	0.5000	
2	1.121	1.121	0.000	179853658	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.919	1.918	0.001	27210	0.001250	0.001159	M
2	1.750	1.749	0.001	563122	0.001250	0.001266	M
						RPD = 8.84	
6 PCB-1016							M
1	2.518	2.516	0.002	35701	0.0500	0.0492	M
1	2.665	2.666	-0.001	27795	0.0500	0.0481	M
1	2.867	2.868	-0.001	89882	0.0500	0.0476	M
1	2.953	2.953	0.000	38461	0.0500	0.0491	M
1	3.015	3.015	0.000	26415	0.0500	0.0498	M
		Average of Peak Amounts =				0.0488	
2	2.523	2.523	-0.001	850486	0.0500	0.0506	M
2	2.846	2.845	0.001	1666987	0.0500	0.0518	M
2	2.967	2.966	0.001	688474	0.0500	0.0543	M
2	3.108	3.108	0.000	389363	0.0500	0.0542	M
2	3.351	3.351	0.000	845397	0.0500	0.0591	M
		Average of Peak Amounts =				0.0540	
						RPD = 10.23	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.725	4.723	0.002	77041	0.0500	0.0513	M
1	4.853	4.851	0.001	46379	0.0500	0.0560	M
1	5.044	5.041	0.003	39725	0.0500	0.0534	M
1	5.241	5.241	0.000	99655	0.0500	0.0521	M
1	5.479	5.478	0.001	49361	0.0500	0.0549	M
		Average of Peak Amounts =				0.0535	
2	4.732	4.732	0.000	623338	0.0500	0.0528	M
2	4.777	4.776	0.001	504996	0.0500	0.0540	M
2	5.044	5.042	0.002	511819	0.0500	0.0574	M
2	5.179	5.177	0.002	1051807	0.0500	0.0530	M
2	5.514	5.513	0.001	632418	0.0500	0.0552	M
		Average of Peak Amounts =				0.0545	
						RPD = 1.74	
$ 15 DCB Decachlorobiphenyl							
1	6.499	6.497	0.002	16098	0.001250	0.001207	
2	6.431	6.428	0.003	195253	0.001250	0.001122	
						RPD = 7.26	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00006 Amount Added: 1.00 Units: mL

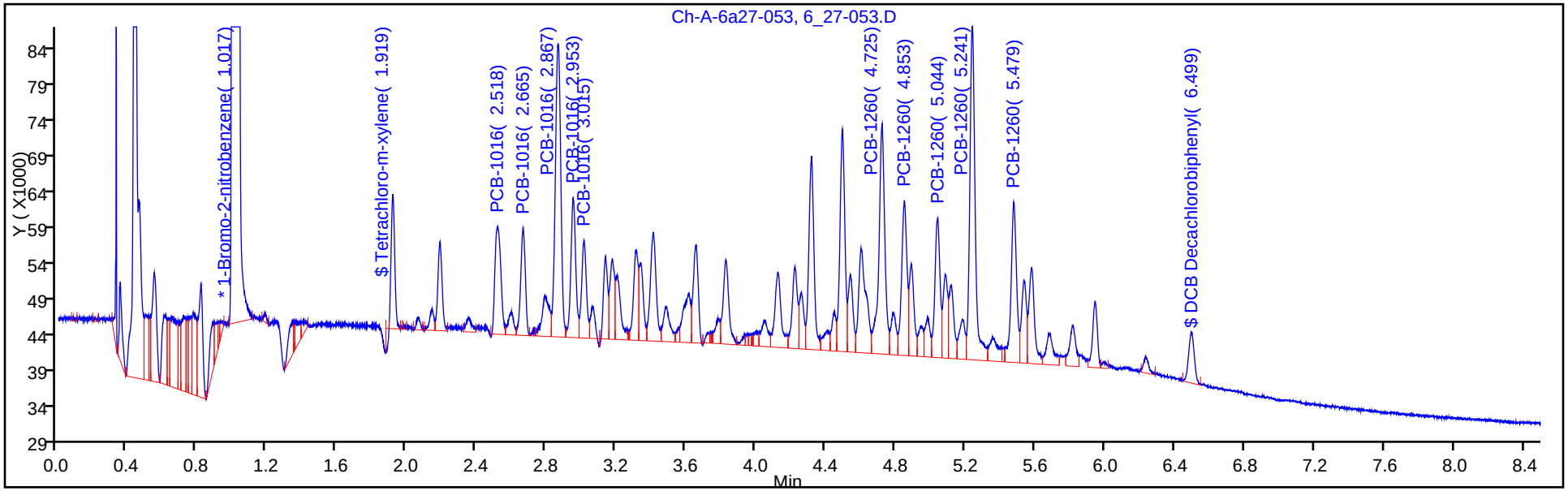
Report Date: 21-Jun-2017 17:50:03 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

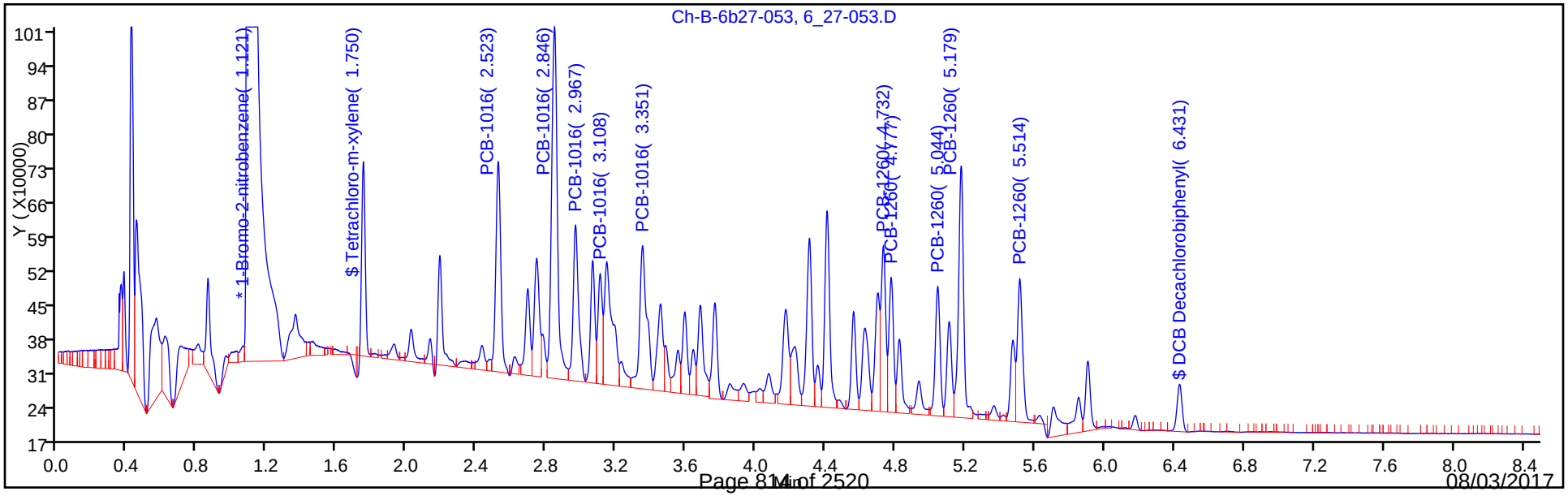
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-053.D

Injection Date:	21-Jun-2017 12:57:58	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

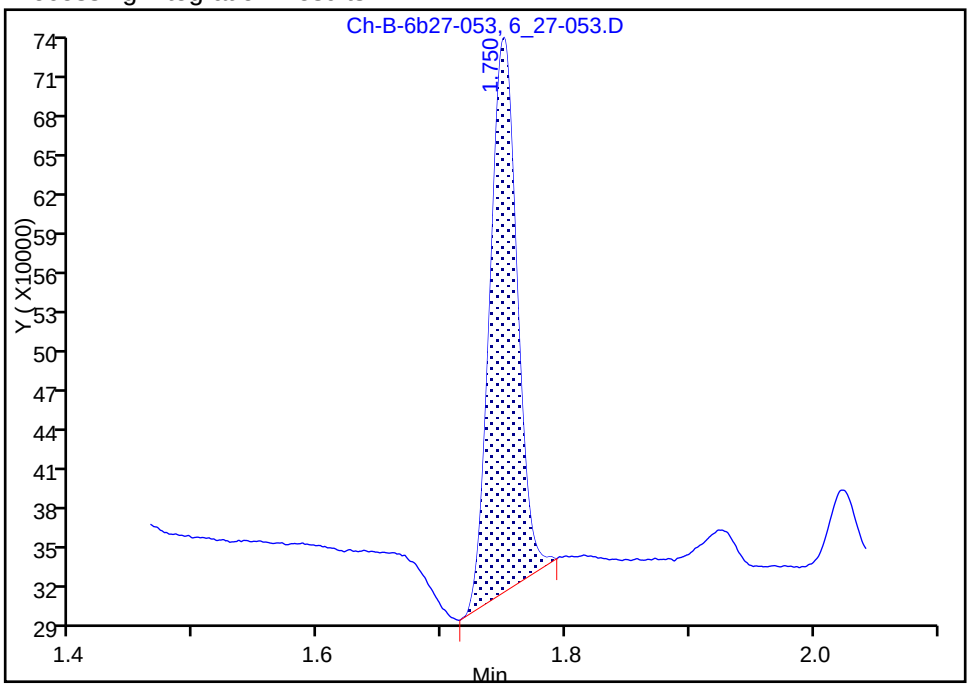
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-053.D
Injection Date: 21-Jun-2017 12:57:58 Instrument ID: HP6890-6
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

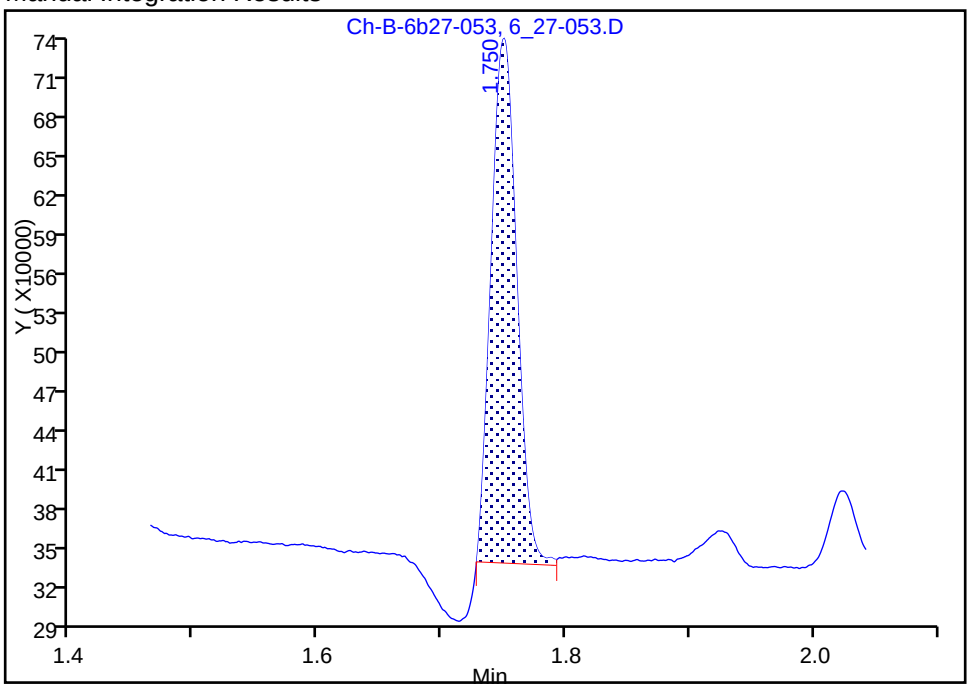
Processing Integration Results

RT: 1.75
Area: 632766
Amount: 0.001484
Amount Units: ng/uL



Manual Integration Results

RT: 1.75
Area: 563122
Amount: 0.001266
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:22:26
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:50:03 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-053.D

Injection Date: 21-Jun-2017 12:57:58 Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

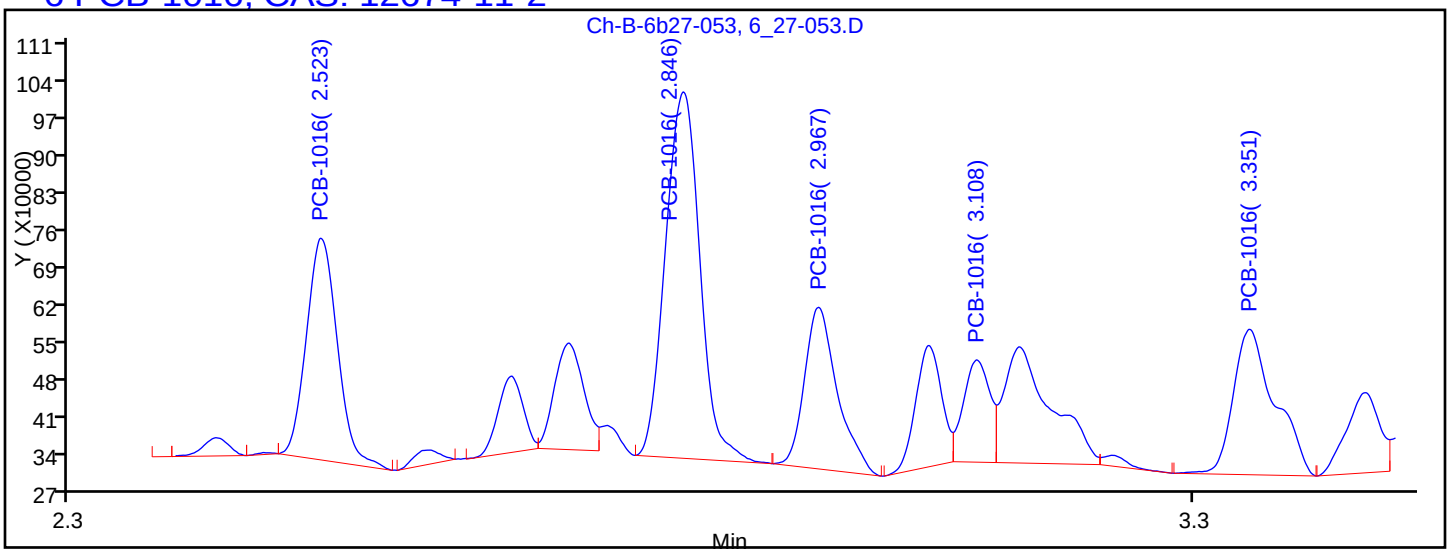
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

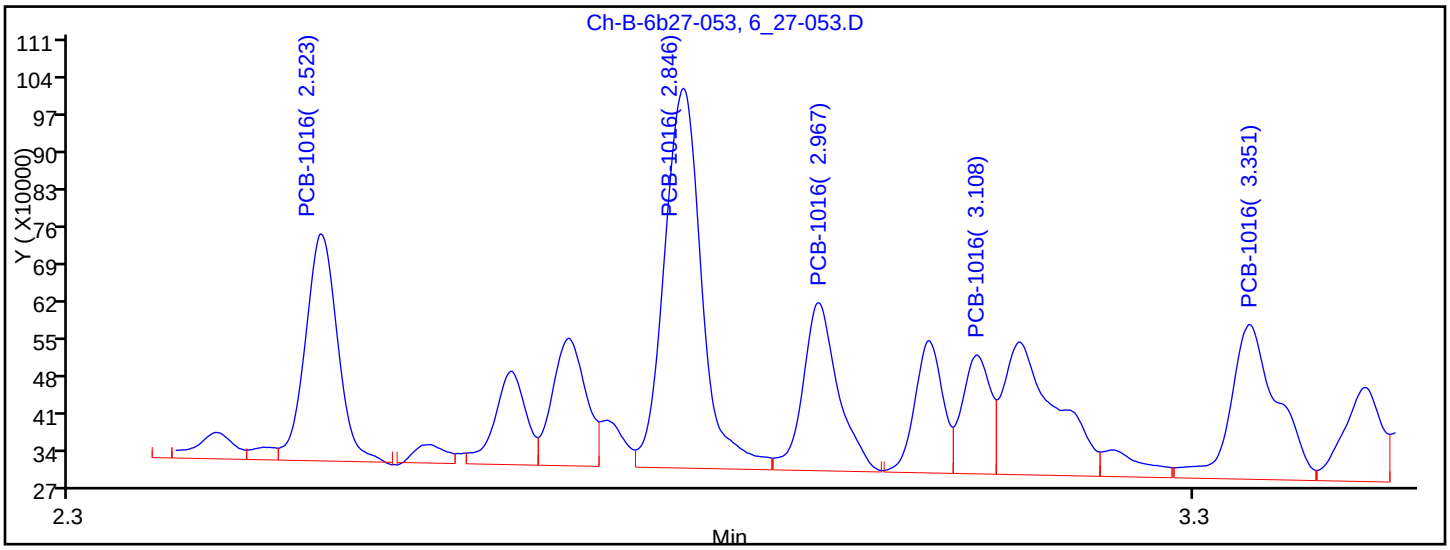
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.523	Response = 797767
2.846	Response = 1469500
2.967	Response = 617586
3.108	Response = 315098
3.351	Response = 701693



Manual Integration Results

2.523	Response = 850486	M
2.846	Response = 1666987	M
2.967	Response = 688474	M
3.108	Response = 389363	M
3.351	Response = 845397	M

Reviewer: owenj, 21-Jun-2017 16:22:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:50:03 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-053.D

Injection Date: 21-Jun-2017 12:57:58 Instrument ID: HP6890-6

Lims ID: IC 2

Client ID:

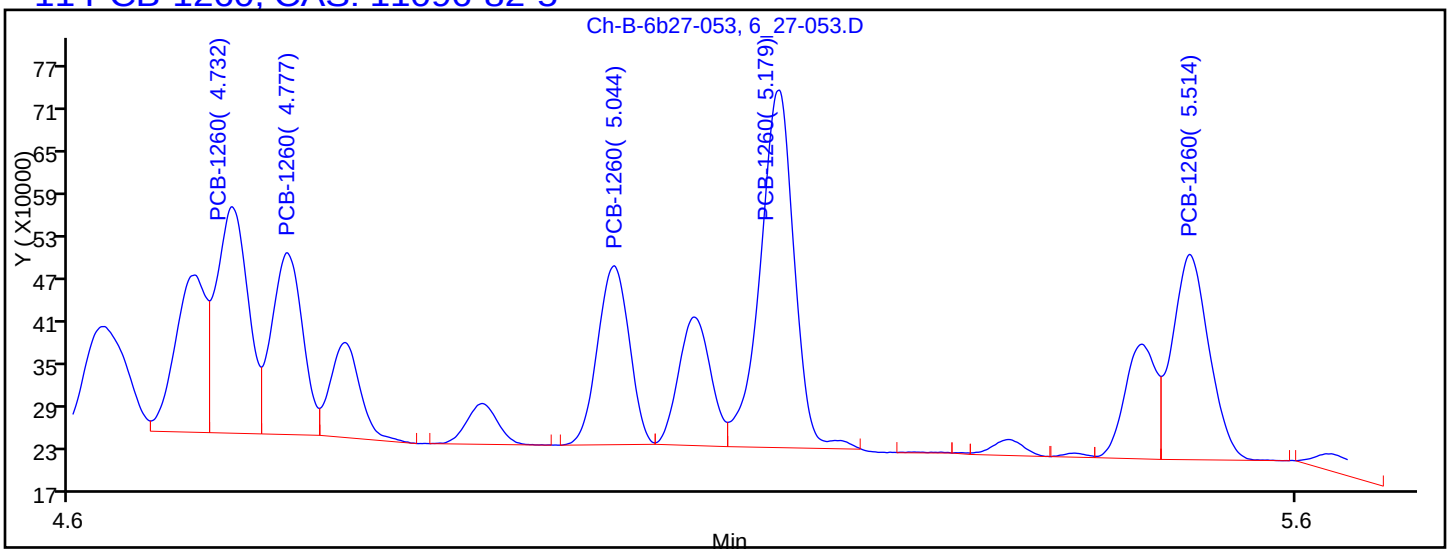
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

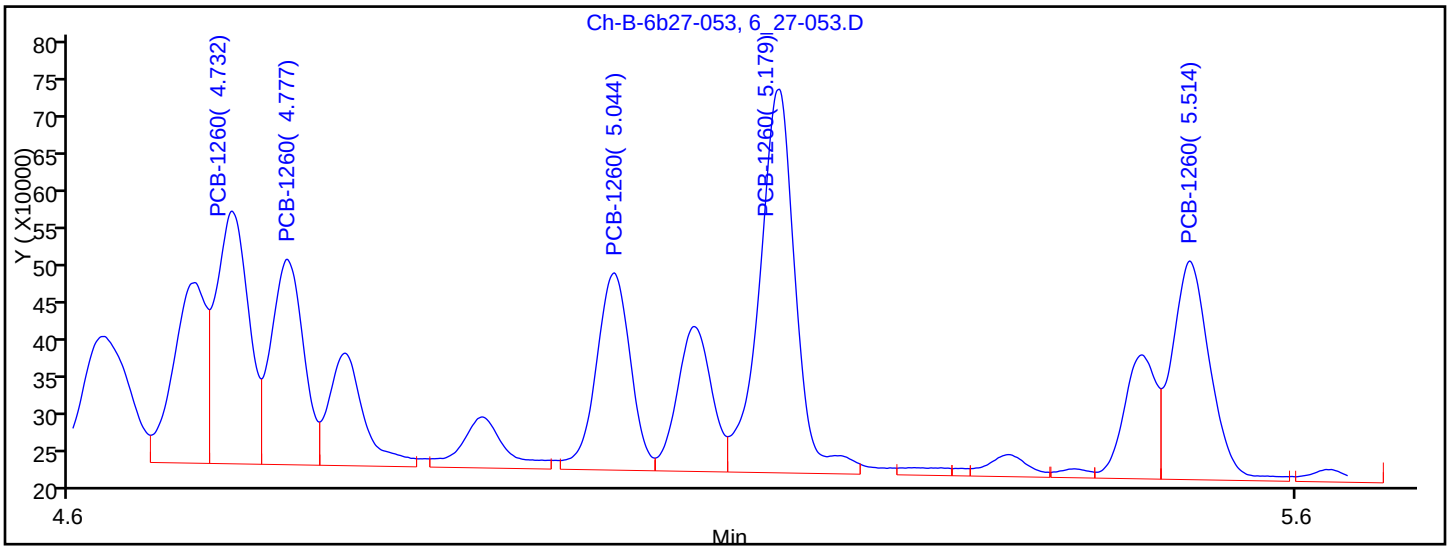
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.732	Response = 569665
4.777	Response = 446899
5.044	Response = 450156
5.179	Response = 967534
5.514	Response = 597633



Manual Integration Results

4.732	Response = 623338	M
4.777	Response = 504996	M
5.044	Response = 511819	M
5.179	Response = 1051807	M
5.514	Response = 632418	M

Reviewer: owenj, 21-Jun-2017 16:22:31

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Jun-2017 13:13:48 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: #:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 21-Jun-2017 17:50:07 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK007

First Level Reviewer: owenj Date: 21-Jun-2017 16:07:25

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.017	1.017	0.000	12258499	0.5000	0.5000	M
2	1.119	1.119	0.000	173099841	0.5000	0.5000	M
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.918	1.918	0.000	12673	0.000500	0.000620	M
2	1.750	1.750	0.000	265630	0.000500	0.000450	M
						RPD = 31.74	
6 PCB-1016							M
1	2.521	2.521	0.000	14855	0.0200	0.0232	M
1	2.665	2.665	0.000	13858	0.0200	0.0218	M
1	2.867	2.867	0.000	41226	0.0200	0.0232	M
1	2.954	2.954	0.000	19023	0.0200	0.0219	M
1	3.014	3.014	0.000	12913	0.0200	0.0220	M
		Average of Peak Amounts =				0.0224	
2	2.523	2.523	0.000	465801	0.0200	0.0133	M
2	2.845	2.845	0.000	855563	0.0200	0.0197	M
2	2.966	2.966	0.000	329187	0.0200	0.0131	M
2	3.108	3.108	0.000	192743	0.0200	0.0136	M
2	3.350	3.350	0.000	369375	0.0200	0.0105	M
		Average of Peak Amounts =				0.0140	
						RPD = 45.95	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.723	4.723	0.000	30884	0.0200	0.0197	M
1	4.853	4.853	0.000	19210	0.0200	0.0262	M
1	5.043	5.043	0.000	14992	0.0200	0.0171	M
1	5.240	5.240	0.000	36421	0.0200	0.0198	M
1	5.480	5.480	0.000	17208	0.0200	0.0168	M
		Average of Peak Amounts =				0.0199	
2	4.732	4.732	0.000	299772	0.0200	0.0191	M
2	4.775	4.775	0.000	247226	0.0200	0.0169	M
2	5.042	5.042	0.000	218663	0.0200	0.0149	M
2	5.178	5.178	0.000	477239	0.0200	0.0214	M
2	5.513	5.513	0.000	286595	0.0200	0.0187	M
		Average of Peak Amounts =				0.0182	
						RPD = 9.14	
$ 15 DCB Decachlorobiphenyl							
1	6.496	6.496	0.000	6641	0.000500	0.000505	
2	6.430	6.430	0.000	117888	0.000500	0.000406	
						RPD = 21.85	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00006 Amount Added: 1.00 Units: mL

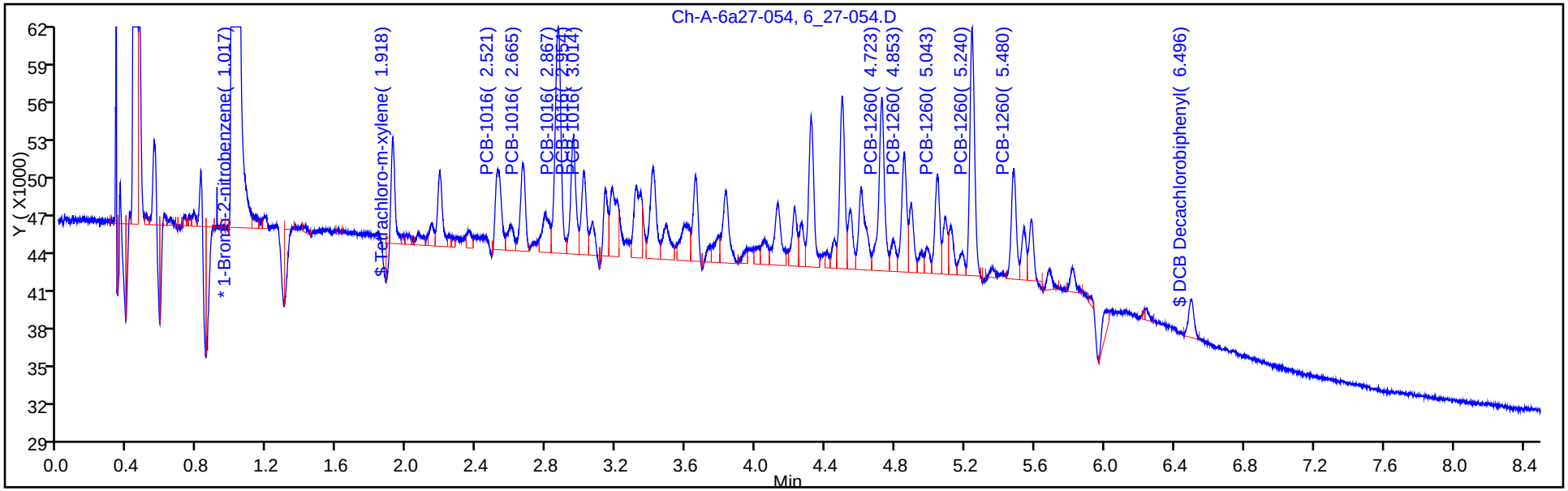
Report Date: 21-Jun-2017 17:50:08 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

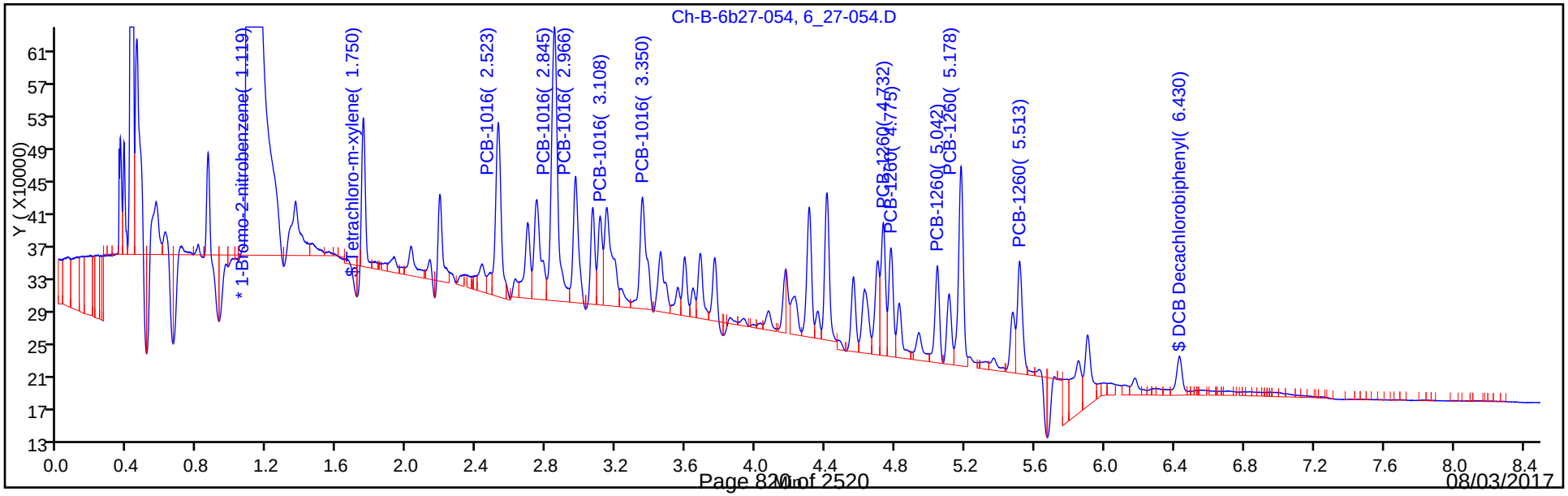
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Injection Date:	21-Jun-2017 13:13:48	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

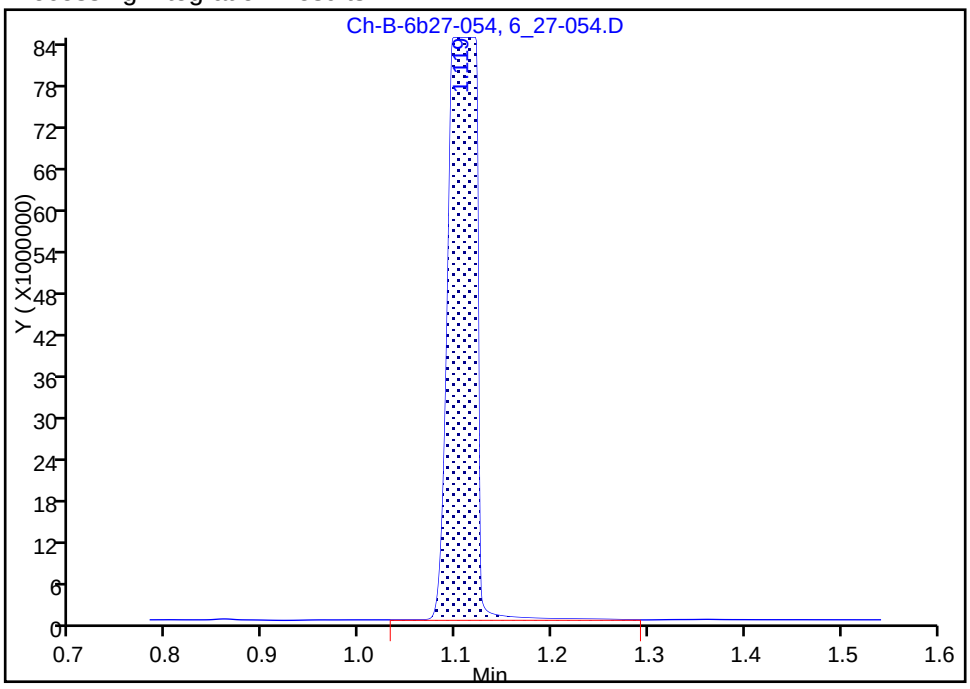
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D
Injection Date: 21-Jun-2017 13:13:48 Instrument ID: HP6890-6
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

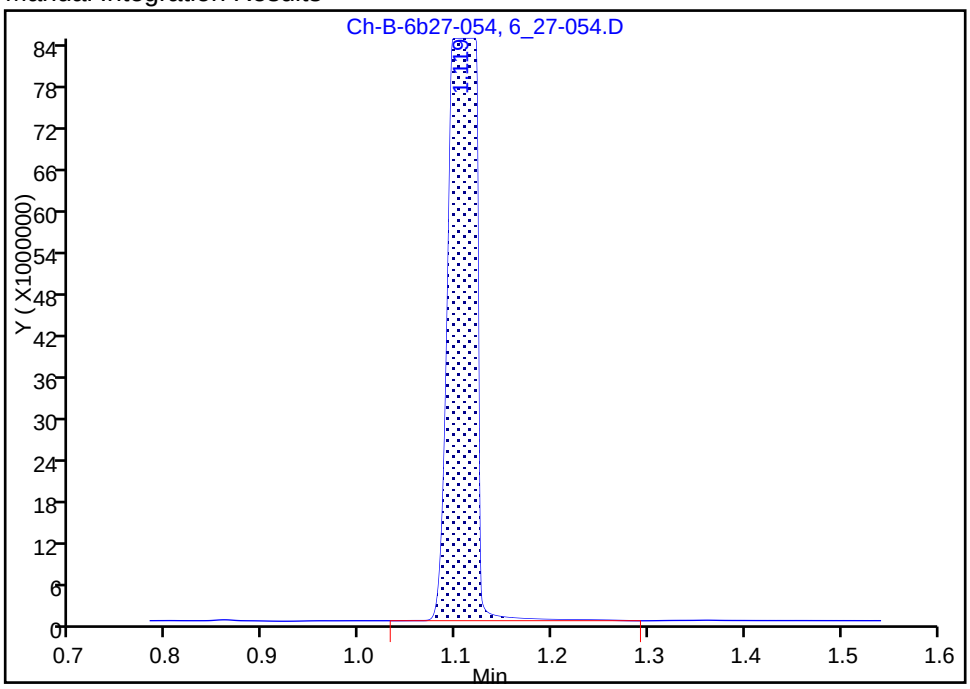
Processing Integration Results

RT: 1.12
Area: 174236356
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.12
Area: 173099841
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 16:07:12
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

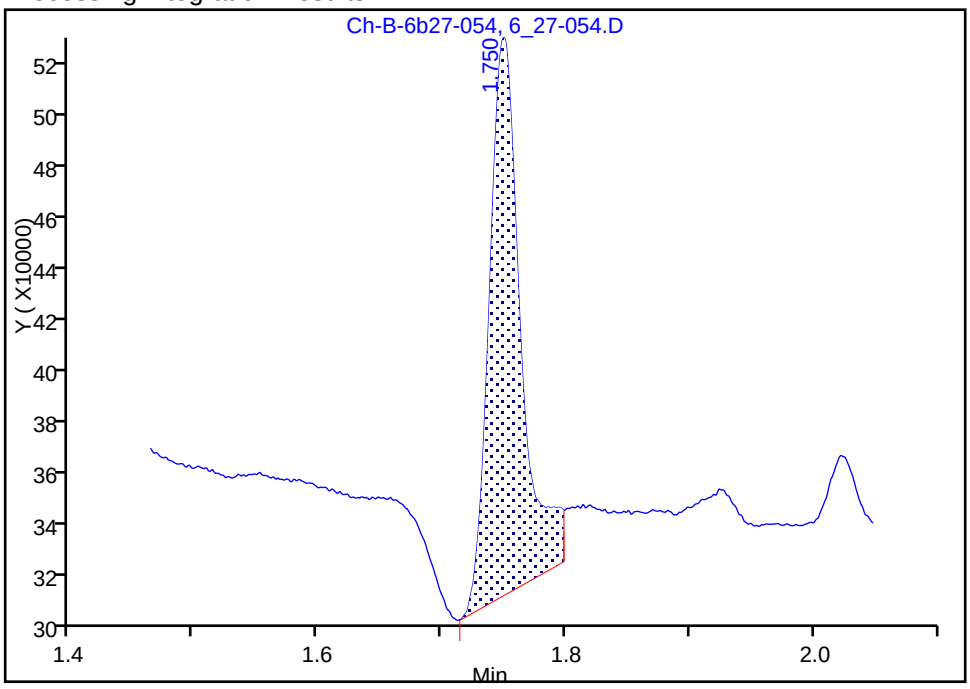
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D
Injection Date: 21-Jun-2017 13:13:48 Instrument ID: HP6890-6
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

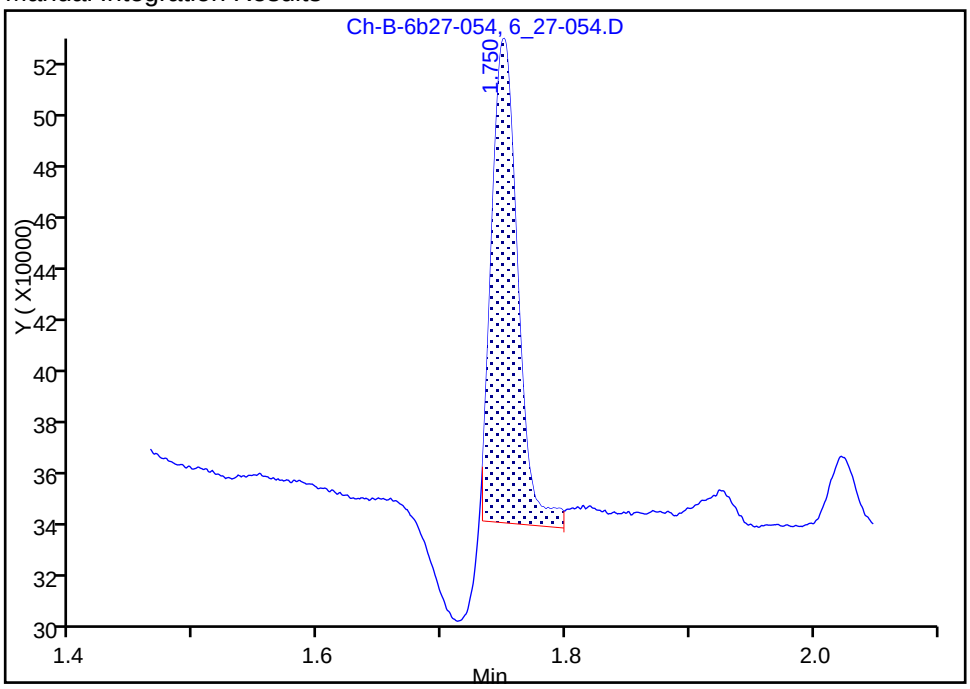
Processing Integration Results

RT: 1.75
Area: 372152
Amount: 0.000541
Amount Units: ng/uL



Manual Integration Results

RT: 1.75
Area: 265630
Amount: 0.000450
Amount Units: ng/uL



Reviewer: owenj, 21-Jun-2017 17:35:22
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:50:08 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Injection Date: 21-Jun-2017 13:13:48 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

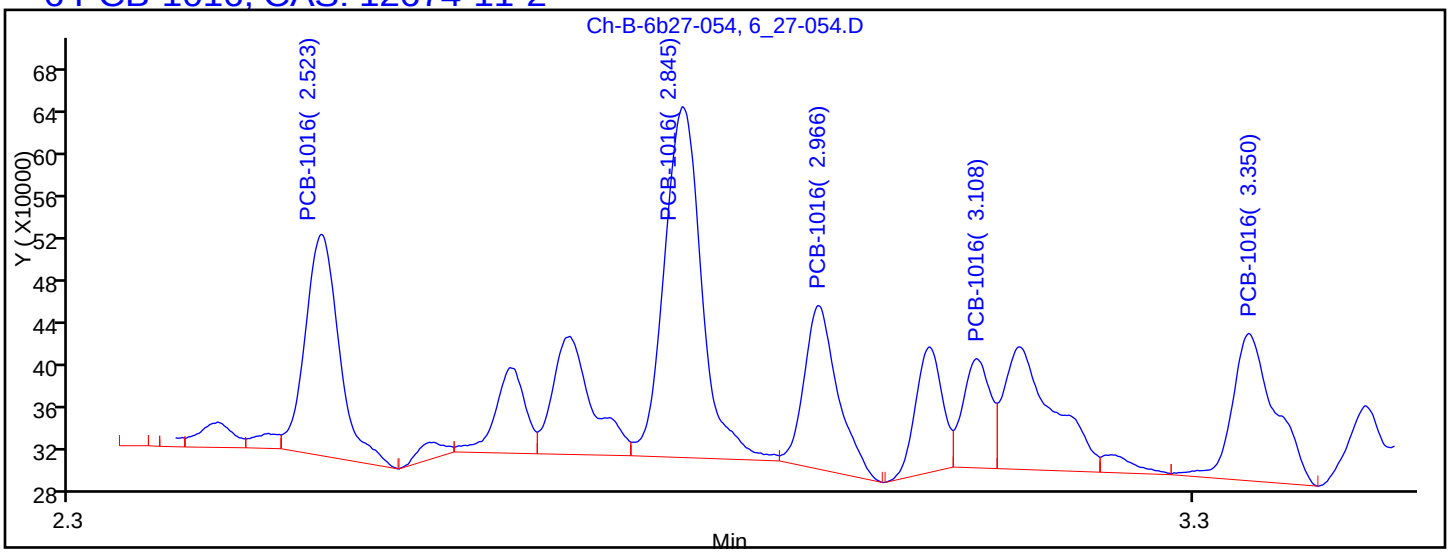
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

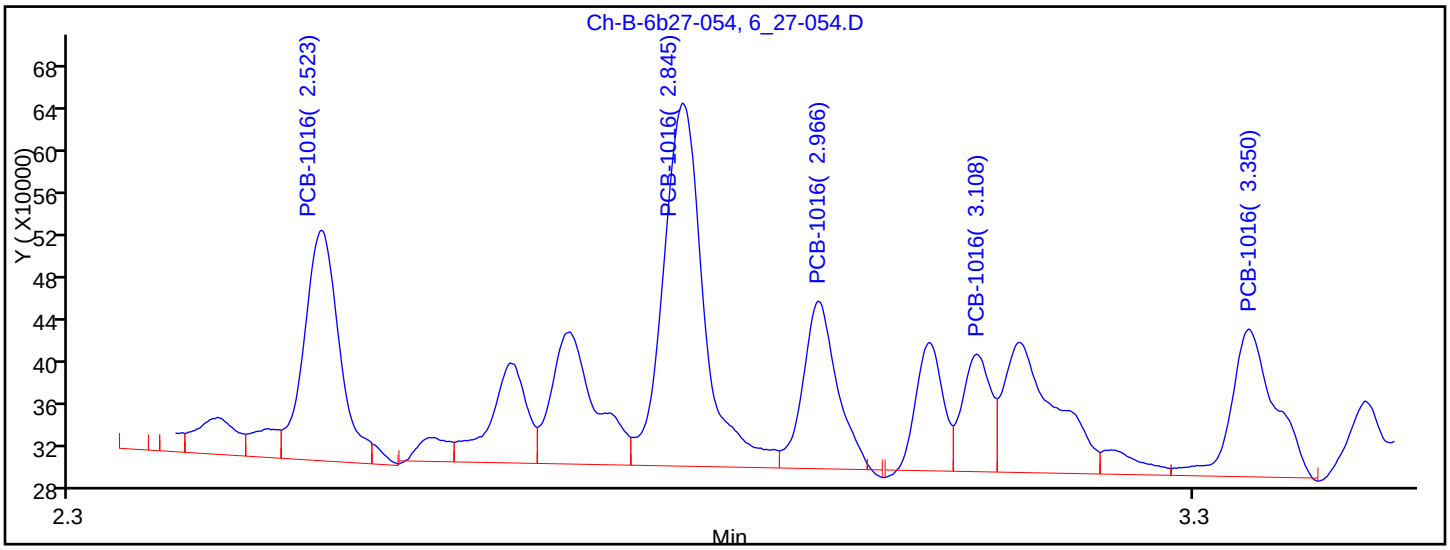
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.523	Response = 432845
2.845	Response = 758668
2.966	Response = 316255
3.108	Response = 173643
3.350	Response = 360167



Manual Integration Results

2.523	Response = 465801	M
2.845	Response = 855563	M
2.966	Response = 329187	M
3.108	Response = 192743	M
3.350	Response = 369375	M

Reviewer: owenj, 21-Jun-2017 17:39:21

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 21-Jun-2017 17:50:08 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Injection Date: 21-Jun-2017 13:13:48 Instrument ID: HP6890-6

Lims ID: IC 1

Client ID:

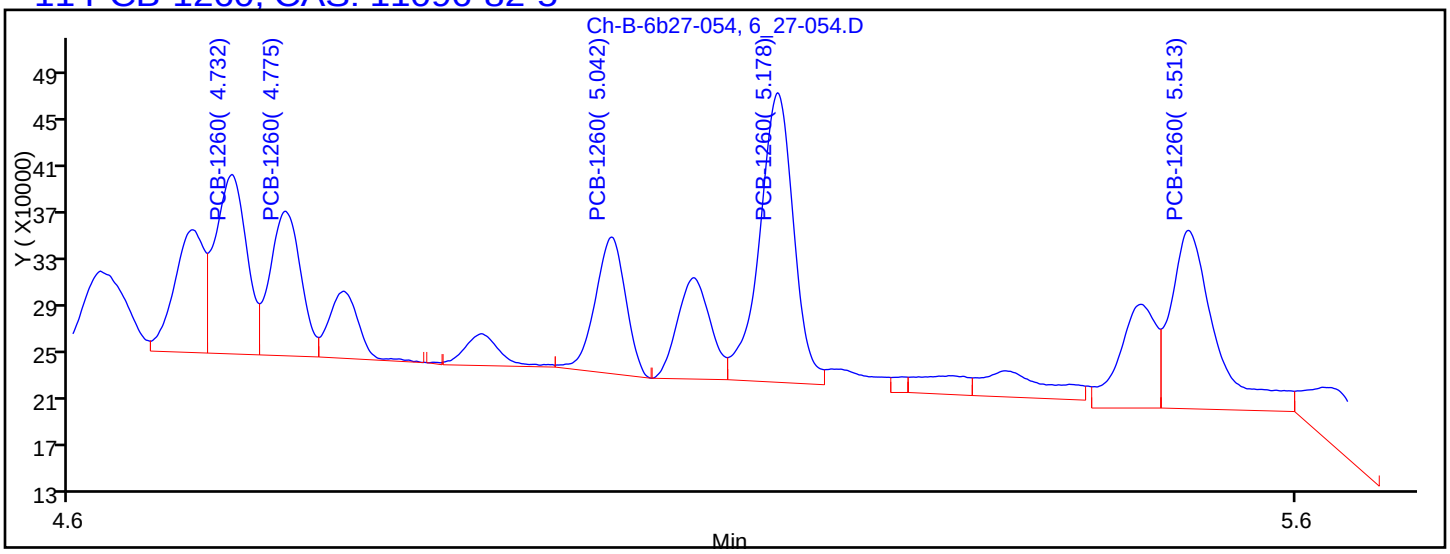
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

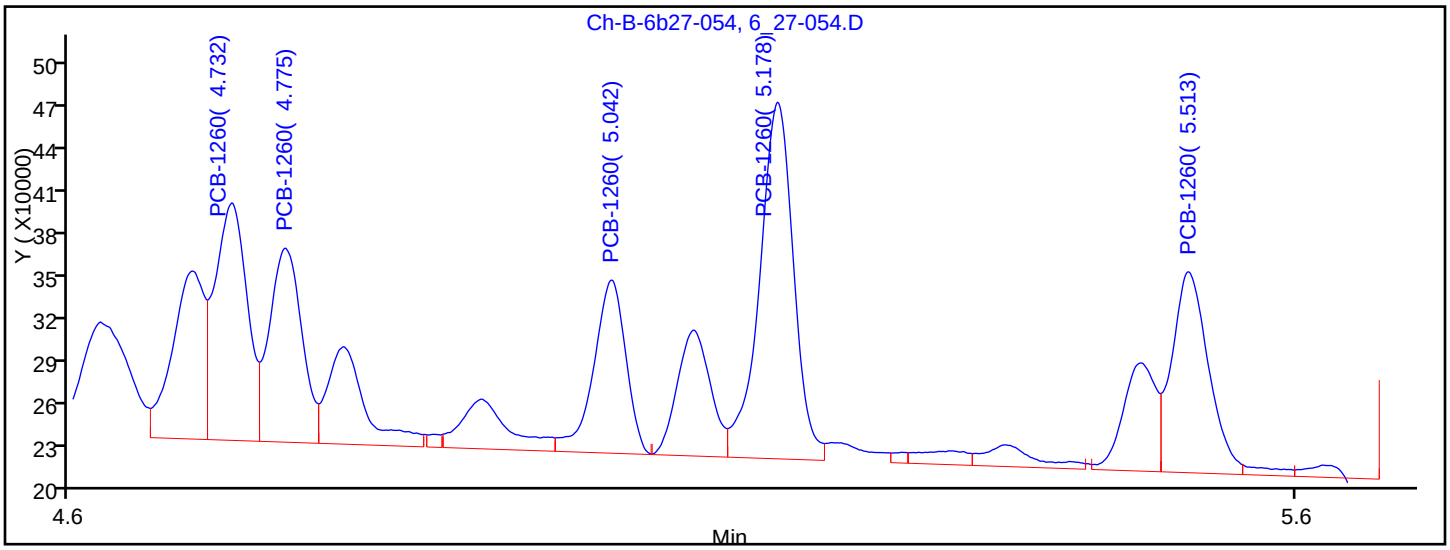
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.732	Response = 271093
4.775	Response = 215657
5.042	Response = 199992
5.178	Response = 477674
5.513	Response = 384008



Manual Integration Results

4.732	Response = 299772	M
4.775	Response = 247226	M
5.042	Response = 218663	M
5.178	Response = 477239	M
5.513	Response = 286595	M

Reviewer: owenj, 21-Jun-2017 17:35:18

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30036

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0727 0.0377	0.0494 0.0361	0.0465	0.0424	0.0394	Lin1	0.0008	0.0365							0.9990		0.9900
PCB-1016 Peak 2	0.0585 0.0232	0.0298 0.0223	0.0283	0.0258	0.0242	Lin1	0.0006	0.0222							0.9990		0.9900
PCB-1016 Peak 3	0.1077 0.0804	0.0925 0.0789	0.0895	0.0843	0.0825	Lin1	0.0007	0.0794							1.0000		0.9900
PCB-1016 Peak 4	0.0511 0.0299	0.0386 0.0293	0.0358	0.0325	0.0310	Lin1	0.0005	0.0293							1.0000		0.9900
PCB-1016 Peak 5	0.0291 0.0206	0.0253 0.0204	0.0242	0.0220	0.0213	Lin1	0.0002	0.0205							1.0000		0.9900
PCB-1260 Peak 1	0.0967 0.0619	0.0726 0.0627	0.0693	0.0646	0.0627	Lin1	0.0006	0.0619							1.0000		0.9900
PCB-1260 Peak 2	0.0510 0.0347	0.0421 0.0351	0.0401	0.0371	0.0351	Lin1	0.0004	0.0348							1.0000		0.9900
PCB-1260 Peak 3	0.0488 0.0327	0.0400 0.0332	0.0377	0.0351	0.0333	Lin1	0.0003	0.0328							1.0000		0.9900
PCB-1260 Peak 4	0.1164 0.0835	0.0939 0.0834	0.0883	0.0855	0.0833	Lin1	0.0006	0.0829							1.0000		0.9900
PCB-1260 Peak 5	0.0612 0.0390	0.0474 0.0395	0.0445	0.0418	0.0393	Lin1	0.0004	0.0390							1.0000		0.9900
Tetrachloro-m-xylene	2.3376 1.2380	1.5476 1.1922	1.4647	1.3455	1.2499	Lin1	0.0006	1.1960							1.0000		0.9900
DCB Decachlorobiphenyl	1.7081 0.7011	0.9136 0.6860	0.8692	0.8076	0.7337	Lin1	0.0005	0.6816							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30036

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	40090 1069406	70180 1990674	131166	240440	559237	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	32281 657284	42348 1229448	79759	146148	343391	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	59419 2281855	131470 4351045	252373	477683	1171814	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	28193 847778	54848 1614519	101002	183983	439612	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	16055 585173	35957 1125851	68213	124672	302019	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	53350 1757860	103183 3456088	195331	366134	889920	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	28146 985992	59743 1936068	113127	209980	497820	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	26897 928651	56806 1828525	106177	198801	472274	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	64230 2370953	133445 4599282	248968	484581	1182397	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	33766 1105773	67285 2179578	125509	236680	558396	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	32243 878514	54964 1643301	103225	190560	443674	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	23559 497557	32445 945567	61259	114381	260424	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Mar-2017 12:44:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:37 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 13:28:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13783622	0.5000	0.5000	
2	1.050	1.049	0.001	25196320	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.091	0.000	1643301	0.0500	0.0494	M
2	1.630	1.630	0.000	2759910	0.0500	0.0493	
						RPD = 0.19	
9 PCB-1016							M
1	2.680	2.680	0.000	1990674	2.00	1.96	
1	2.833	2.833	0.000	1229448	2.00	1.98	
1	3.038	3.038	0.000	4351045	2.00	1.98	
1	3.124	3.124	0.000	1614519	2.00	1.98	
1	3.188	3.188	0.000	1125851	2.00	1.98	
		Average of Peak Amounts =				1.98	
2	2.323	2.322	0.000	3225340	2.00	1.95	M
2	2.630	2.629	0.001	6960596	2.00	1.97	M
2	2.741	2.740	0.001	2614031	2.00	1.96	M
2	2.833	2.832	0.000	1765496	2.00	1.97	M
2	3.108	3.108	0.000	3029614	2.00	1.96	M
		Average of Peak Amounts =				1.96	
						RPD = 0.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	3456088	2.00	2.02	
1	5.049	5.050	-0.001	1936068	2.00	2.01	
1	5.243	5.241	0.001	1828525	2.00	2.01	
1	5.448	5.448	0.000	4599282	2.00	2.01	
1	5.705	5.704	0.001	2179578	2.00	2.02	
		Average of Peak Amounts =				2.01	
2	4.474	4.473	0.001	3578378	2.00	2.00	M
2	4.526	4.525	0.001	3267180	2.00	2.00	M
2	4.852	4.850	0.002	2555055	2.00	2.00	M
2	4.926	4.925	0.001	8387014	2.00	2.03	M
2	5.256	5.256	0.000	5066416	2.00	2.03	M
		Average of Peak Amounts =				2.01	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							M
1	7.176	7.173	0.003	945567	0.0500	0.0496	
2	6.309	6.309	0.000	1802857	0.0500	0.0500	M
						RPD = 0.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00005 Amount Added: 1.00 Units: mL

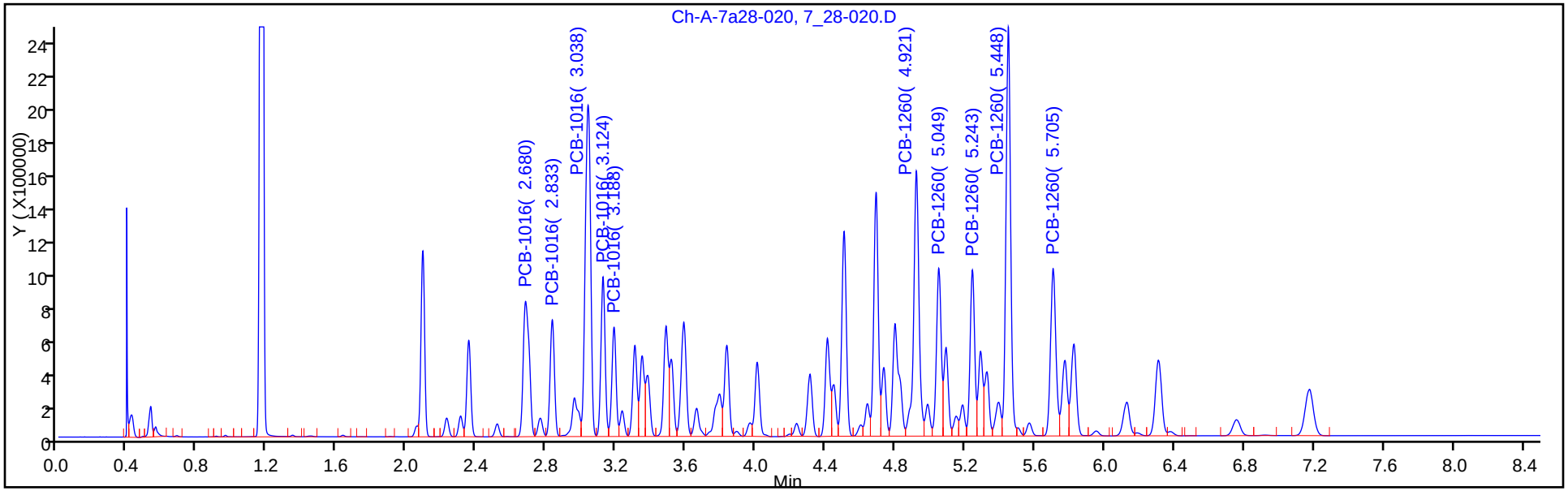
Report Date: 29-Mar-2017 10:53:38 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

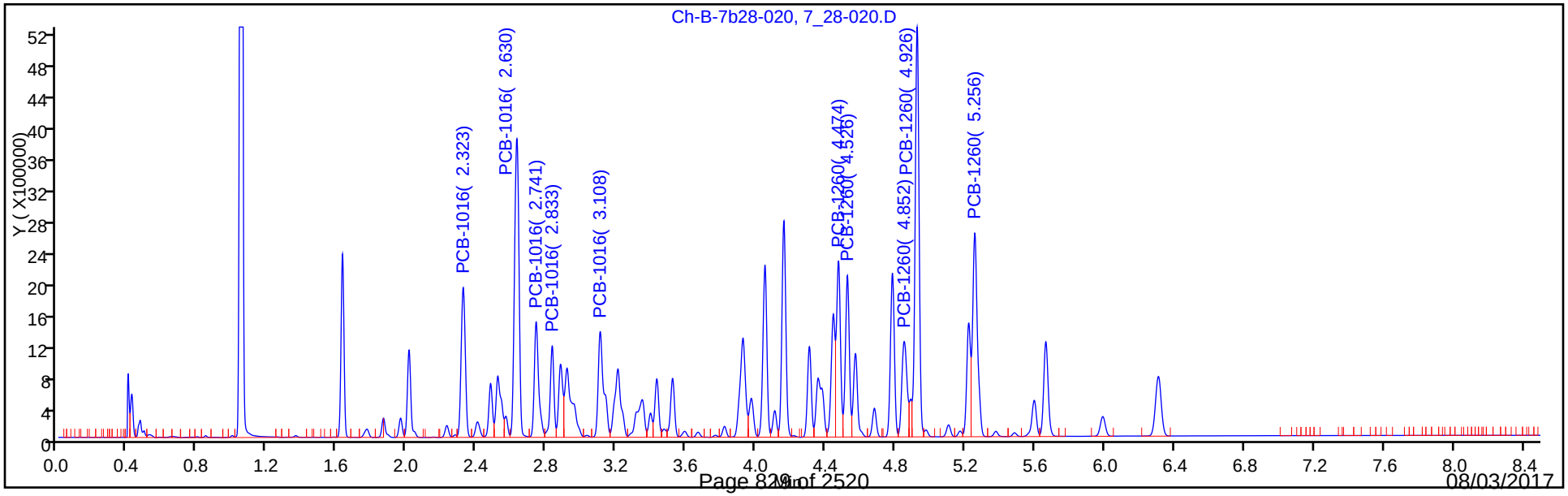
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date:	28-Mar-2017 12:44:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

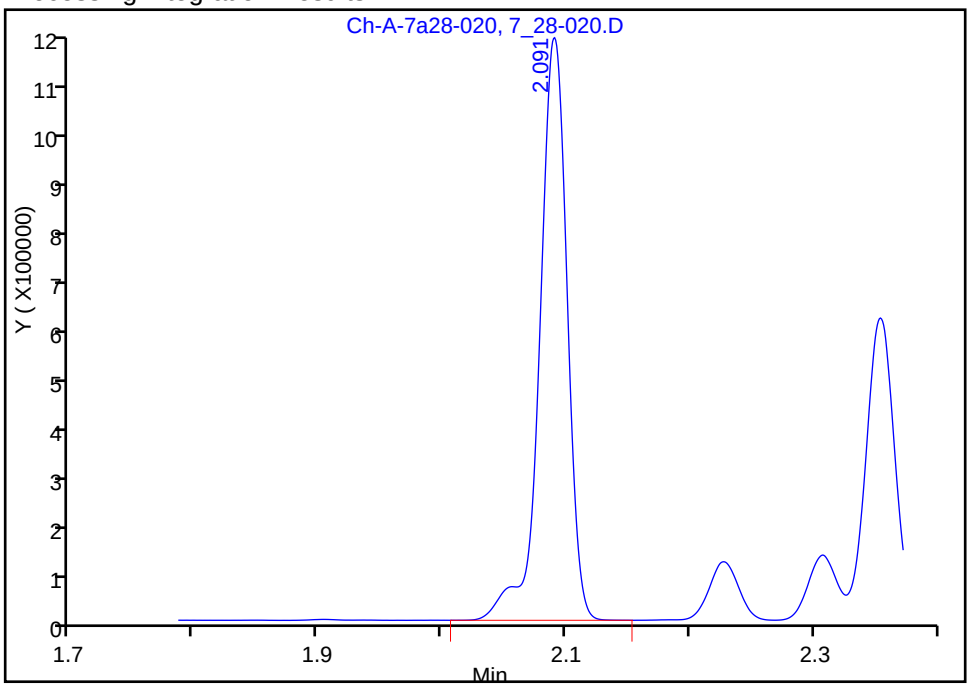
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

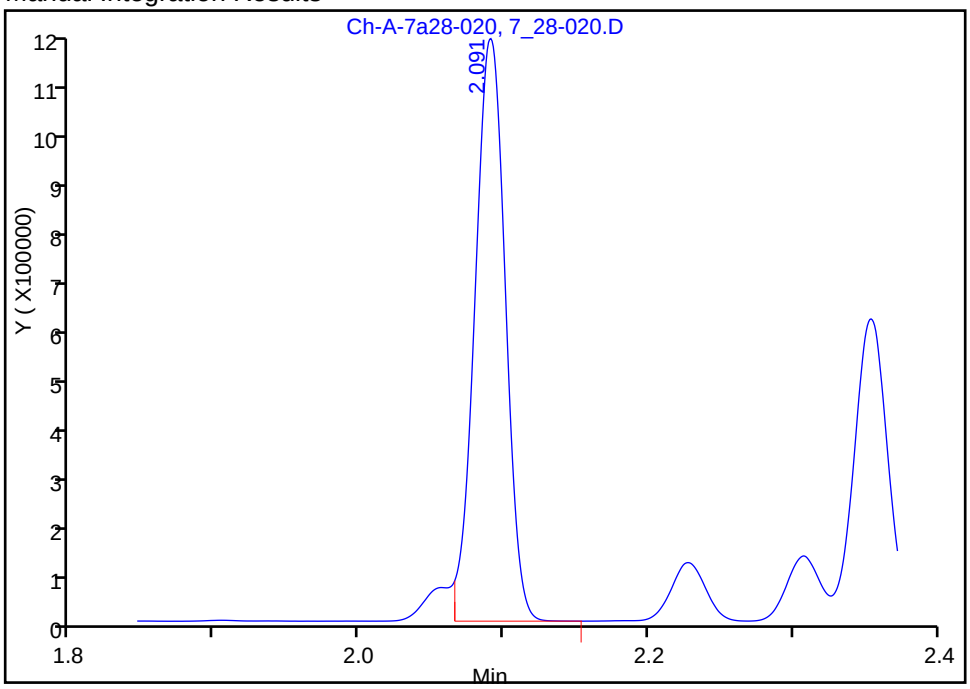
Processing Integration Results

RT: 2.09
Area: 1735709
Amount: 0.050426
Amount Units: ng/uL



Manual Integration Results

RT: 2.09
Area: 1643301
Amount: 0.049368
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 13:28:05
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Mar-2017 13:00:25 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:41 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	14192996	0.5000	0.5000	
2	1.051	1.049	0.002	25860623	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.091	2.091	0.000	878514	0.0250	0.0254	
2	1.630	1.630	0.000	1443081	0.0250	0.0250	
						RPD = 1.51	
9 PCB-1016							M
1	2.680	2.680	0.000	1069406	1.00	1.01	
1	2.833	2.833	0.000	657284	1.00	1.01	
1	3.037	3.038	-0.001	2281855	1.00	1.00	
1	3.124	3.124	0.000	847778	1.00	1.00	
1	3.188	3.188	0.000	585173	1.00	1.00	
		Average of Peak Amounts =				1.01	
2	2.322	2.322	0.000	1750650	1.00	1.02	M
2	2.630	2.629	0.001	3648843	1.00	1.00	M
2	2.740	2.740	0.000	1382864	1.00	1.00	M
2	2.833	2.832	0.000	930174	1.00	1.00	M
2	3.108	3.108	0.000	1590176	1.00	1.00	M
		Average of Peak Amounts =				1.01	
						RPD = 0.01	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	1757860	1.00	0.99	
1	5.049	5.050	-0.001	985992	1.00	0.9889	
1	5.243	5.241	0.001	928651	1.00	0.9864	
1	5.448	5.448	0.000	2370953	1.00	1.00	
1	5.705	5.704	0.001	1105773	1.00	0.9872	
		Average of Peak Amounts =				0.99	
2	4.475	4.473	0.002	1832024	1.00	0.99	M
2	4.526	4.525	0.001	1681113	1.00	1.00	M
2	4.853	4.850	0.002	1316272	1.00	1.00	M
2	4.926	4.925	0.001	4197806	1.00	0.9885	M
2	5.256	5.256	0.000	2530850	1.00	0.9857	M
		Average of Peak Amounts =				0.99	
						RPD = 0.22	
$ 15 DCB Decachlorobiphenyl							
1	7.176	7.173	0.003	497557	0.0250	0.0250	
2	6.310	6.309	0.001	932252	0.0250	0.0250	
						RPD = 0.14	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00006 Amount Added: 1.00 Units: mL

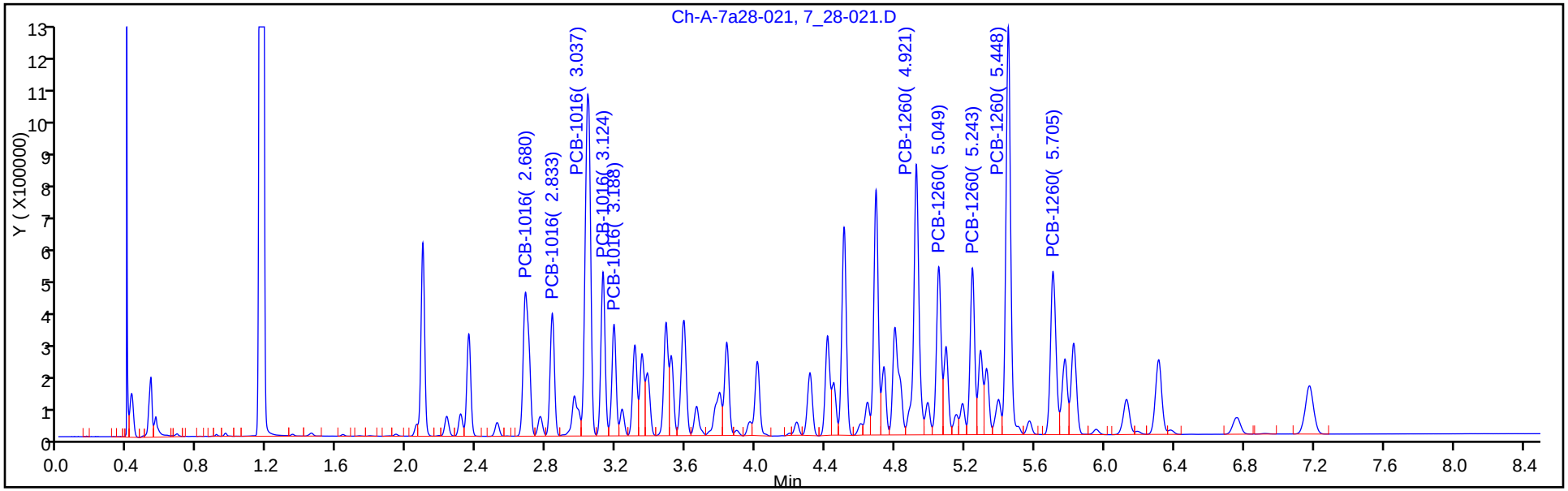
Report Date: 29-Mar-2017 10:53:41 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

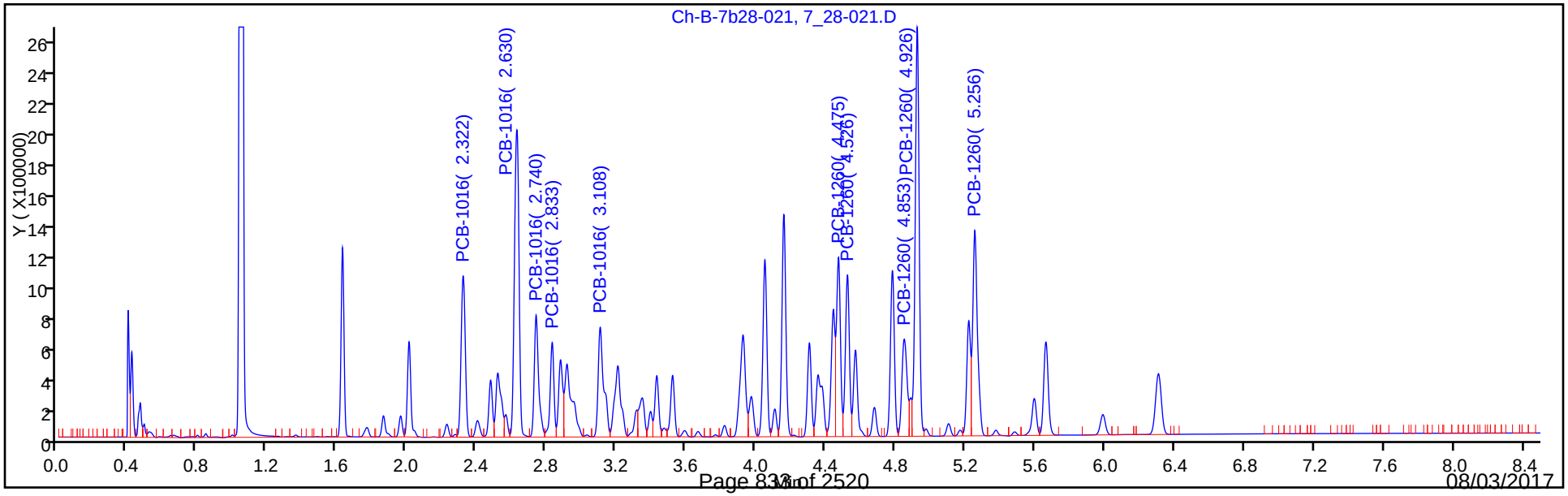
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date:	28-Mar-2017 13:00:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-Mar-2017 13:16:37 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:26

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14198667	0.5000	0.5000	
2	1.050	1.050	0.000	25919091	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.092	2.092	0.000	443674	0.0125	0.0126	
2	1.629	1.629	0.000	736370	0.0125	0.0127	
						RPD = 0.55	
9 PCB-1016							M
1	2.681	2.681	0.000	559237	0.5000	0.5184	
1	2.834	2.834	0.000	343391	0.5000	0.5153	
1	3.038	3.038	0.000	1171814	0.5000	0.5111	
1	3.126	3.126	0.000	439612	0.5000	0.5111	
1	3.188	3.188	0.000	302019	0.5000	0.5088	
		Average of Peak Amounts =				0.5129	
2	2.322	2.322	0.000	924630	0.5000	0.5229	M
2	2.631	2.631	0.000	1883383	0.5000	0.5098	M
2	2.741	2.741	0.000	717244	0.5000	0.5121	M
2	2.833	2.833	0.000	478556	0.5000	0.5090	M
2	3.108	3.108	0.000	824152	0.5000	0.5114	M
		Average of Peak Amounts =				0.5131	
						RPD = 0.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	889920	0.5000	0.4959	
1	5.051	5.051	0.000	497820	0.5000	0.4940	
1	5.243	5.243	0.000	472274	0.5000	0.4962	
1	5.449	5.449	0.000	1182397	0.5000	0.4951	
1	5.706	5.706	0.000	558396	0.5000	0.4927	
		Average of Peak Amounts =				0.4948	
2	4.474	4.474	0.000	937560	0.5000	0.5023	M
2	4.526	4.526	0.000	846078	0.5000	0.4970	M
2	4.850	4.850	0.000	654832	0.5000	0.4930	M
2	4.926	4.926	0.000	2070270	0.5000	0.4860	M
2	5.256	5.256	0.000	1260909	0.5000	0.4890	M
		Average of Peak Amounts =				0.4935	
						RPD = 0.26	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.000	260424	0.0125	0.0128	
2	6.310	6.310	0.000	476855	0.0125	0.0126	
						RPD = 1.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00005 Amount Added: 1.00 Units: mL

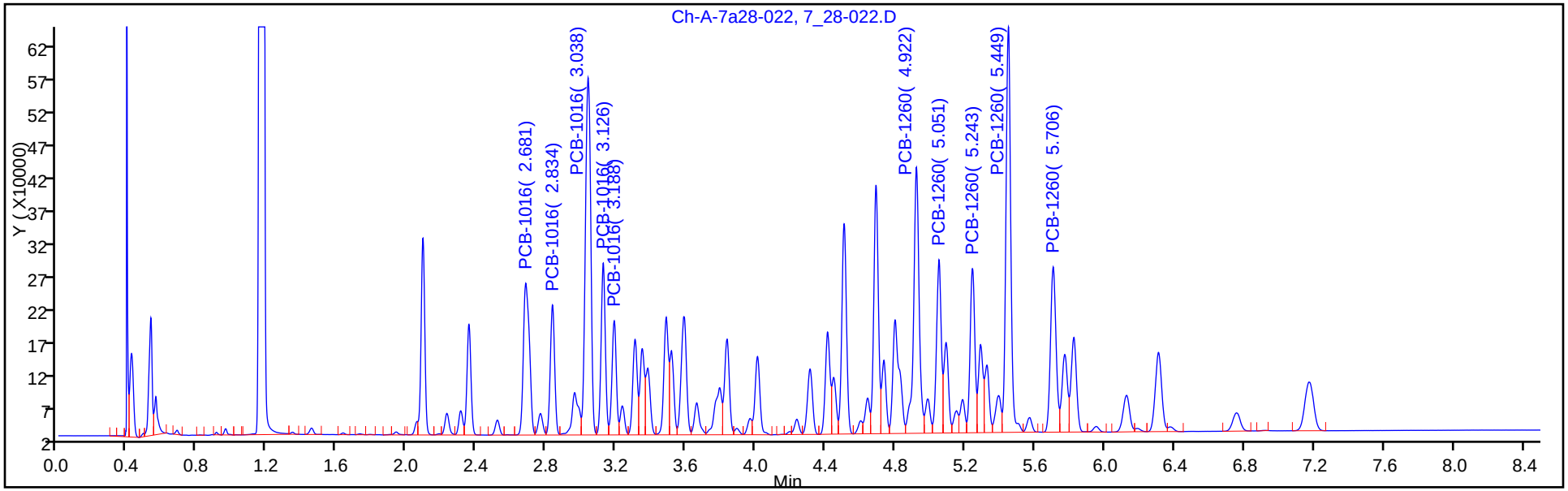
Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

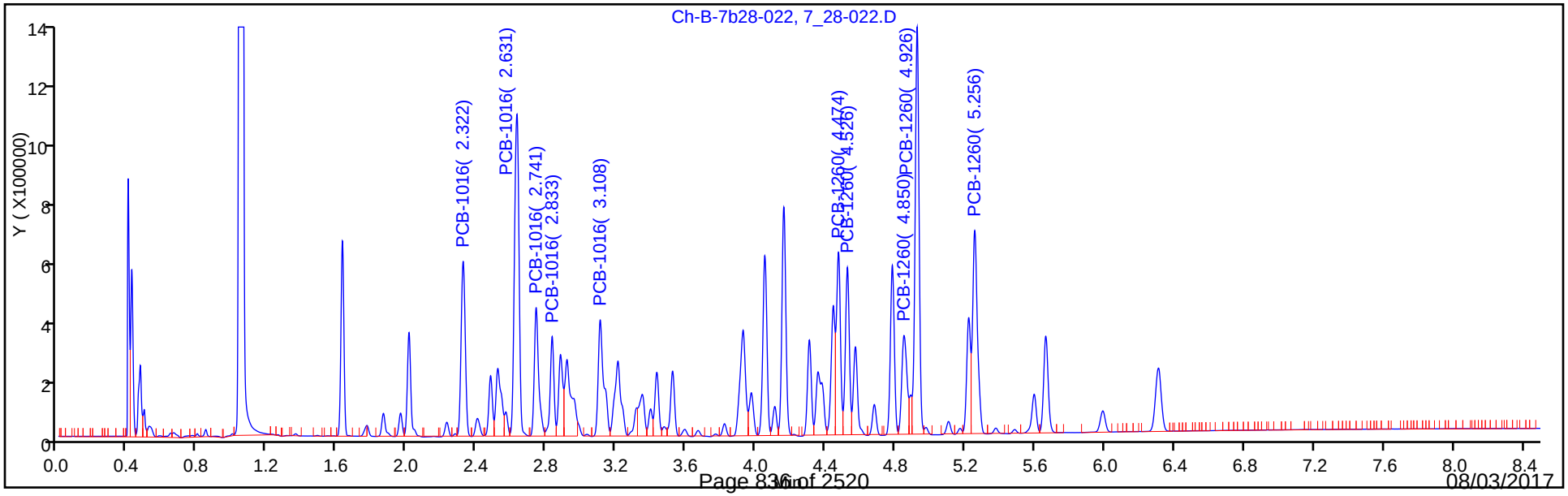
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date:	28-Mar-2017 13:16:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Mar-2017 13:32:29 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14162788	0.5000	0.5000	
2	1.050	1.050	0.000	25970868	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	190560	0.005000	0.005152	
2	1.629	1.629	0.000	314174	0.005000	0.005296	
						RPD = 2.77	
9 PCB-1016							M
1	2.679	2.681	-0.002	240440	0.2000	0.2113	
1	2.833	2.834	-0.001	146148	0.2000	0.2034	
1	3.038	3.038	0.000	477683	0.2000	0.2038	
1	3.124	3.126	-0.002	183983	0.2000	0.2049	
1	3.187	3.188	-0.001	124672	0.2000	0.2042	
		Average of Peak Amounts =				0.2055	
2	2.322	2.322	0.000	407072	0.2000	0.2144	M
2	2.630	2.631	-0.001	801927	0.2000	0.2095	M
2	2.740	2.741	-0.001	312839	0.2000	0.2140	M
2	2.832	2.833	0.000	208461	0.2000	0.2145	M
2	3.107	3.108	-0.001	357784	0.2000	0.2152	M
		Average of Peak Amounts =				0.2135	
						RPD = 3.82	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.922	-0.001	366134	0.2000	0.1984	
1	5.050	5.051	-0.001	209980	0.2000	0.2029	
1	5.242	5.243	0.000	198801	0.2000	0.2032	
1	5.447	5.449	-0.002	484581	0.2000	0.1990	
1	5.704	5.706	-0.002	236680	0.2000	0.2027	
		Average of Peak Amounts =				0.2013	
2	4.473	4.474	-0.001	388118	0.2000	0.2015	M
2	4.525	4.526	-0.001	355175	0.2000	0.2037	M
2	4.851	4.850	0.001	278936	0.2000	0.2064	M
2	4.925	4.926	-0.001	839381	0.2000	0.1962	M
2	5.255	5.256	-0.001	513815	0.2000	0.1978	M
		Average of Peak Amounts =				0.2011	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.001	114381	0.005000	0.005241	
2	6.309	6.310	-0.001	197094	0.005000	0.004970	
						RPD = 5.30	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00005 Amount Added: 1.00 Units: mL

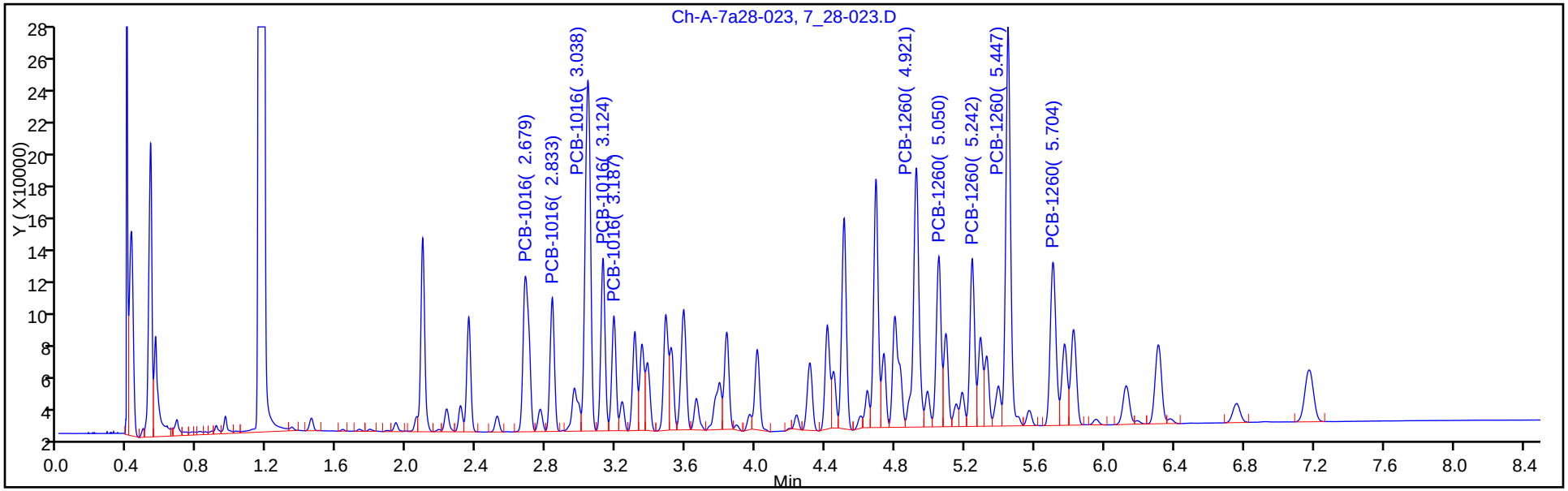
Report Date: 29-Mar-2017 10:53:48 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

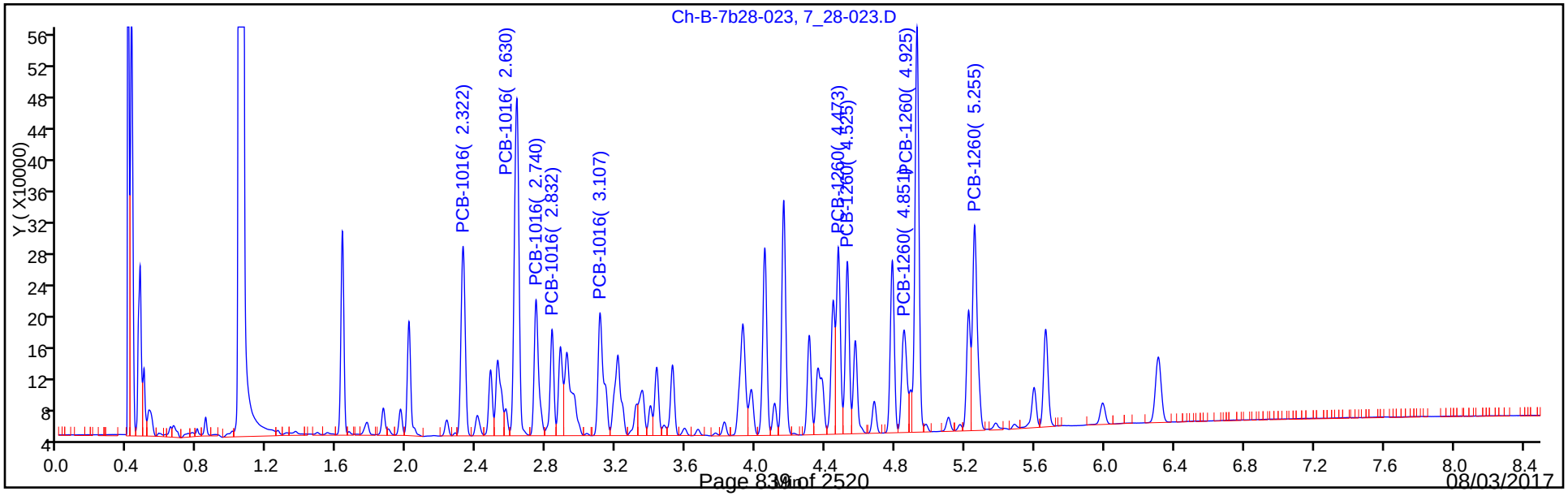
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date:	28-Mar-2017 13:32:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 13:48:24 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:51 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:15

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14095092	0.5000	0.5000	
2	1.051	1.050	0.001	25666794	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	103225	0.002500	0.002588	
2	1.629	1.629	0.000	165536	0.002500	0.002747	
						RPD = 5.96	
9 PCB-1016							
1	2.680	2.681	-0.001	131166	0.1000	0.1062	
1	2.833	2.834	-0.002	79759	0.1000	0.0986	
1	3.038	3.038	0.000	252373	0.1000	0.1042	
1	3.123	3.126	-0.003	101002	0.1000	0.1056	
1	3.187	3.188	-0.001	68213	0.1000	0.1074	
		Average of Peak Amounts =				0.1044	
2	2.322	2.322	0.000	221184	0.1000	0.1056	
2	2.629	2.631	-0.002	427950	0.1000	0.1075	
2	2.740	2.741	-0.001	168178	0.1000	0.1092	
2	2.832	2.833	0.000	111933	0.1000	0.1110	
2	3.108	3.108	0.000	191892	0.1000	0.1117	
		Average of Peak Amounts =				0.1090	
						RPD = 4.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.922	-0.002	195331	0.1000	0.1015	
1	5.048	5.051	-0.003	113127	0.1000	0.1051	
1	5.242	5.243	0.000	106177	0.1000	0.1041	
1	5.447	5.449	-0.002	248968	0.1000	0.0992	
1	5.705	5.706	-0.001	125509	0.1000	0.1027	
		Average of Peak Amounts =				0.1025	
2	4.474	4.474	0.000	203046	0.1000	0.1018	M
2	4.525	4.526	-0.001	186861	0.1000	0.1048	M
2	4.850	4.850	0.000	145043	0.1000	0.1059	M
2	4.924	4.926	-0.002	425544	0.1000	0.1003	M
2	5.255	5.256	-0.001	256997	0.1000	0.0992	M
		Average of Peak Amounts =				0.1024	
						RPD = 0.11	
$ 15 DCB Decachlorobiphenyl							
1	7.175	7.173	0.003	61259	0.002500	0.002505	
2	6.309	6.310	-0.001	105526	0.002500	0.002523	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00006 Amount Added: 1.00 Units: mL

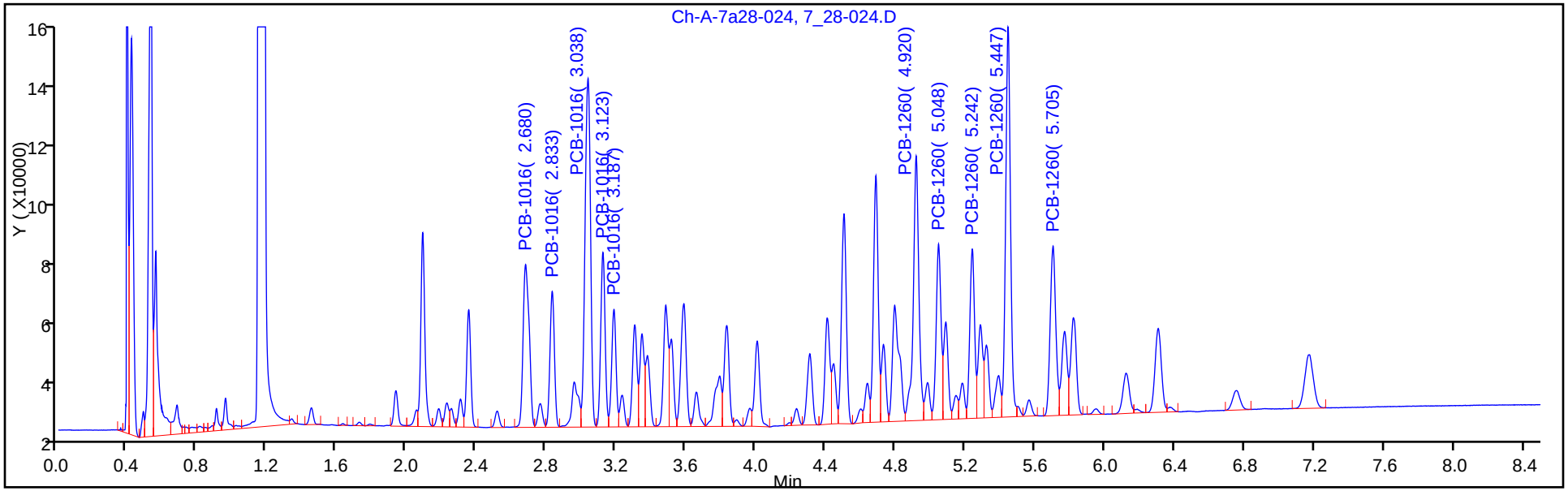
Report Date: 29-Mar-2017 10:53:52 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

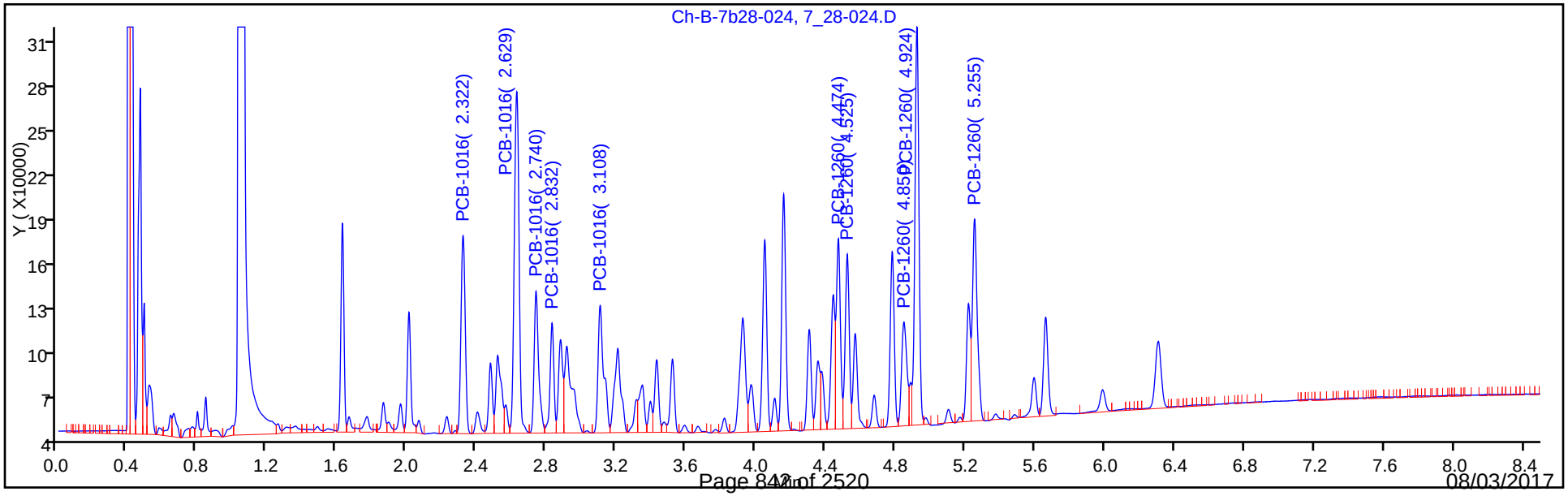
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D

Injection Date:	28-Mar-2017 13:48:24	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 14:04:23 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:55 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 14:59:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14205944	0.5000	0.5000	
2	1.051	1.050	0.001	25850188	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.092	-0.001	54964	0.001250	0.001144	M
2	1.630	1.629	0.001	88309	0.001250	0.001378	M
						RPD = 18.55	
9 PCB-1016							M
1	2.679	2.681	-0.002	70180	0.0500	0.0464	M
1	2.833	2.834	-0.001	42348	0.0500	0.0384	M
1	3.039	3.038	0.001	131470	0.0500	0.0497	M
1	3.123	3.126	-0.003	54848	0.0500	0.0493	M
1	3.188	3.188	0.000	35957	0.0500	0.0510	M
		Average of Peak Amounts =				0.0470	
2	2.322	2.322	0.000	119218	0.0500	0.0438	M
2	2.630	2.631	-0.001	231069	0.0500	0.0519	M
2	2.741	2.741	0.000	89547	0.0500	0.0503	M
2	2.833	2.833	0.000	58550	0.0500	0.0519	M
2	3.108	3.108	0.000	99815	0.0500	0.0523	M
		Average of Peak Amounts =				0.0500	
						RPD = 6.32	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	103183	0.0500	0.0482	
1	5.049	5.051	-0.002	59743	0.0500	0.0501	
1	5.243	5.243	0.000	56806	0.0500	0.0503	
1	5.448	5.449	-0.001	133445	0.0500	0.0493	
1	5.706	5.706	0.000	67285	0.0500	0.0492	
		Average of Peak Amounts =				0.0494	
2	4.474	4.474	0.000	107037	0.0500	0.0484	M
2	4.526	4.526	0.000	97606	0.0500	0.0506	M
2	4.850	4.850	0.000	75849	0.0500	0.0523	M
2	4.926	4.926	0.000	218116	0.0500	0.0507	M
2	5.255	5.256	-0.001	134029	0.0500	0.0505	M
		Average of Peak Amounts =				0.0505	
						RPD = 2.12	
$ 15 DCB Decachlorobiphenyl							
1	7.174	7.173	0.002	32445	0.001250	0.000992	
2	6.310	6.310	0.000	57089	0.001250	0.001184	
						RPD = 17.63	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00005 Amount Added: 1.00 Units: mL

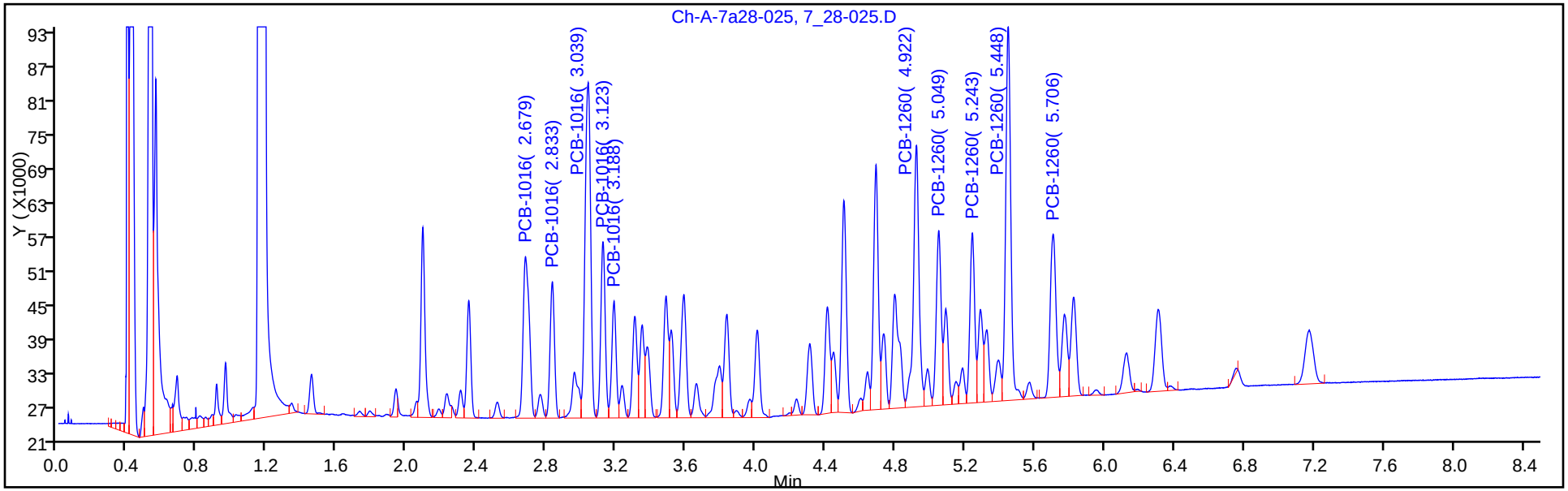
Report Date: 29-Mar-2017 10:53:55 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

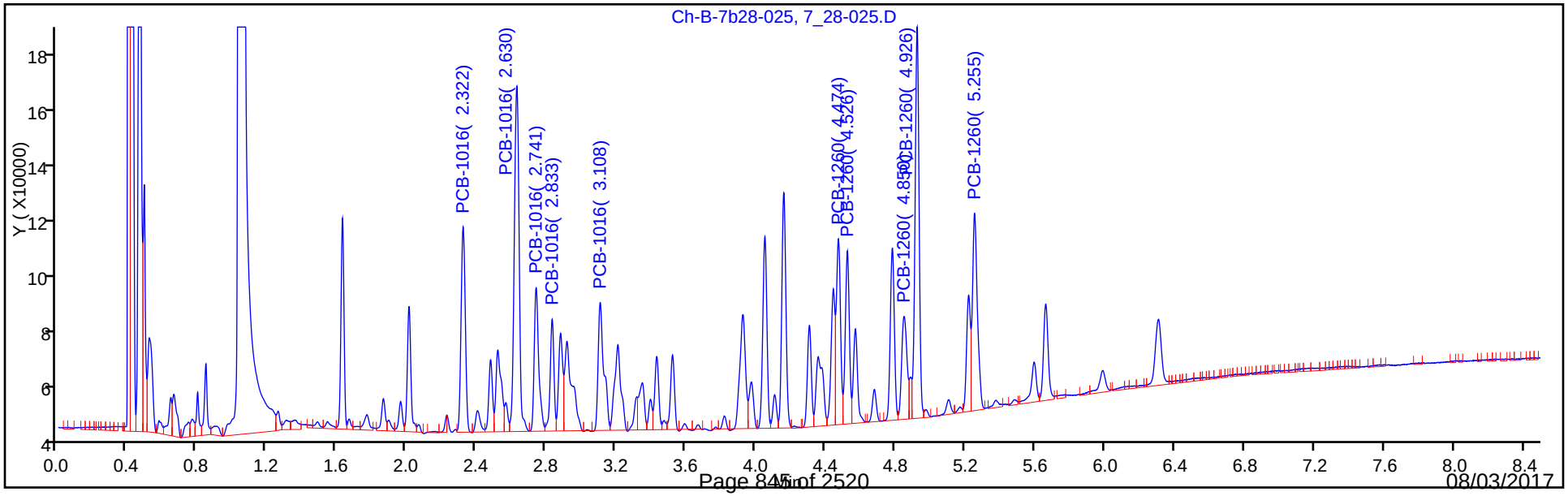
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date:	28-Mar-2017 14:04:23	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

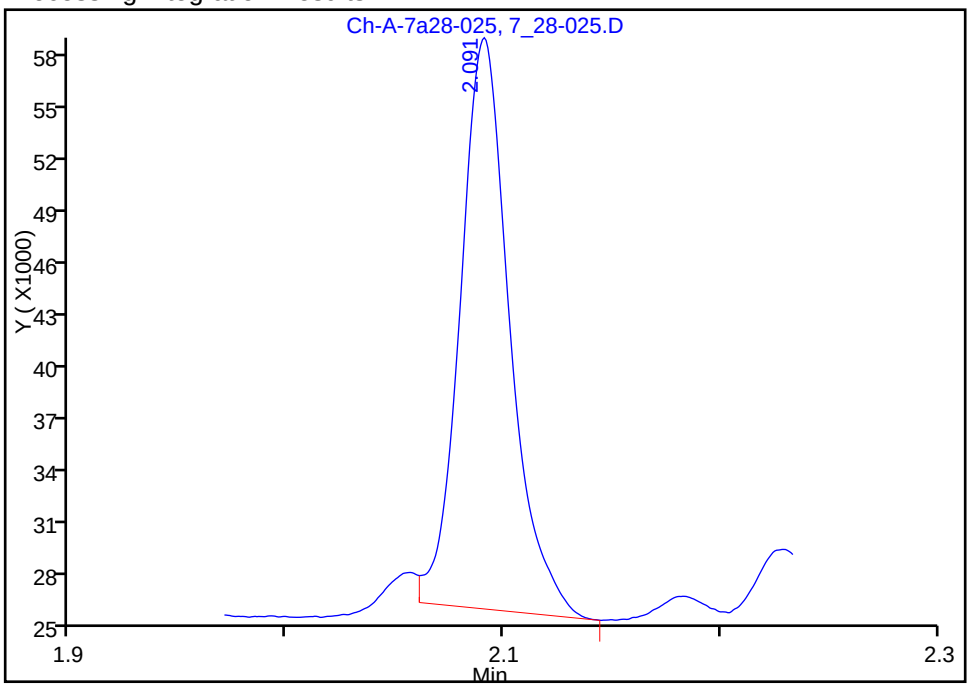
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

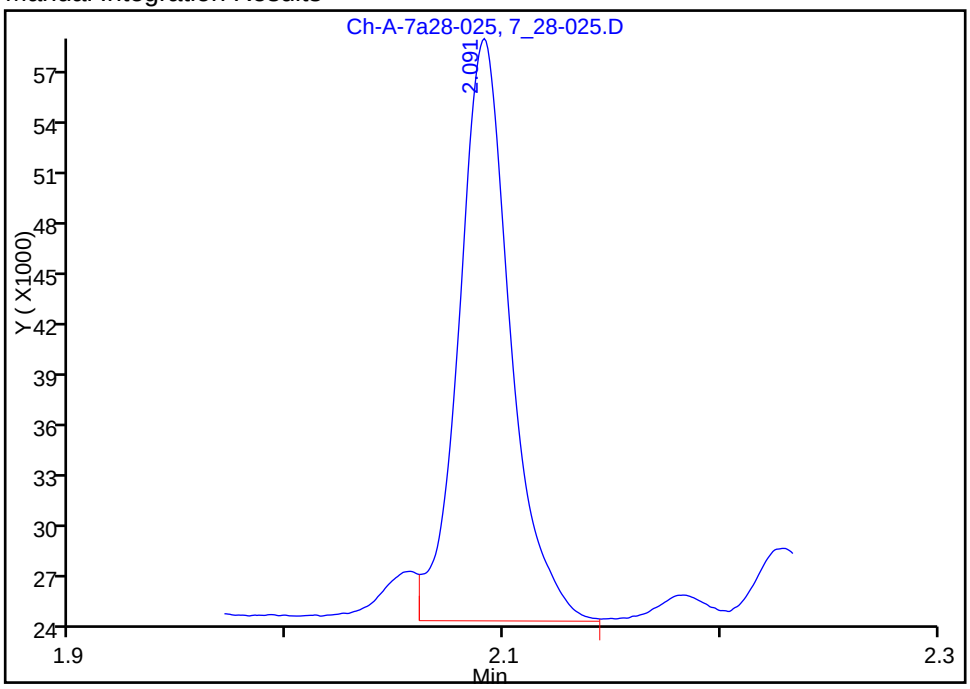
Processing Integration Results

RT: 2.09
Area: 51887
Amount: 0.001075
Amount Units: ng/uL



Manual Integration Results

RT: 2.09
Area: 54964
Amount: 0.001144
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:39:46
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:55 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

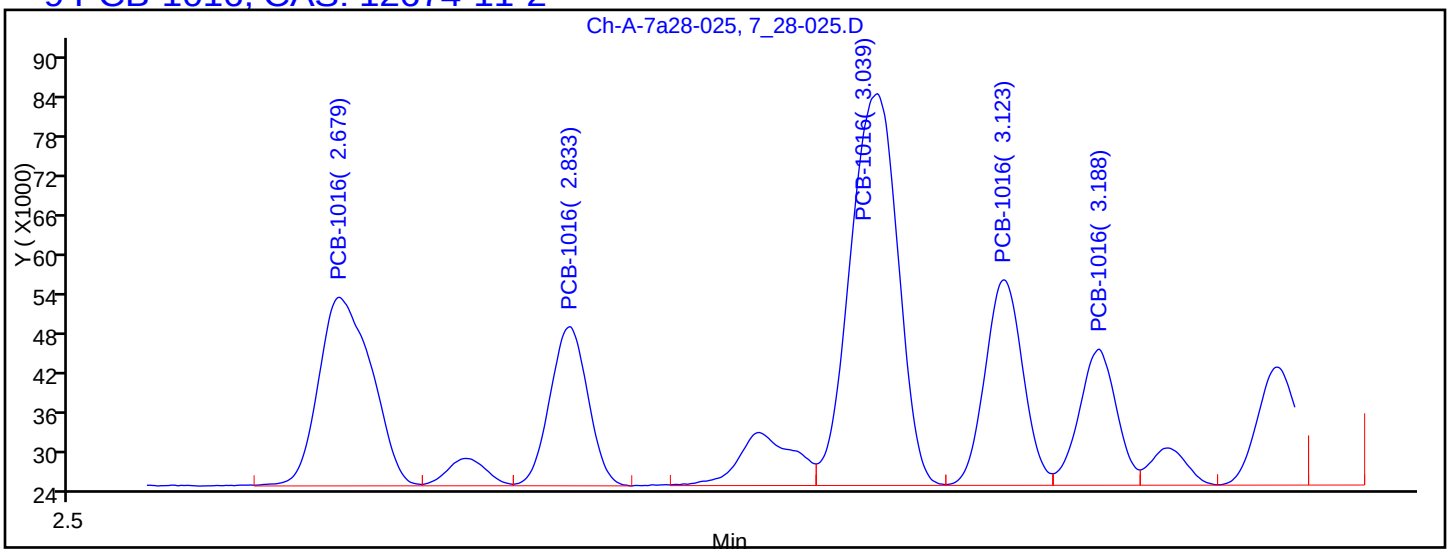
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

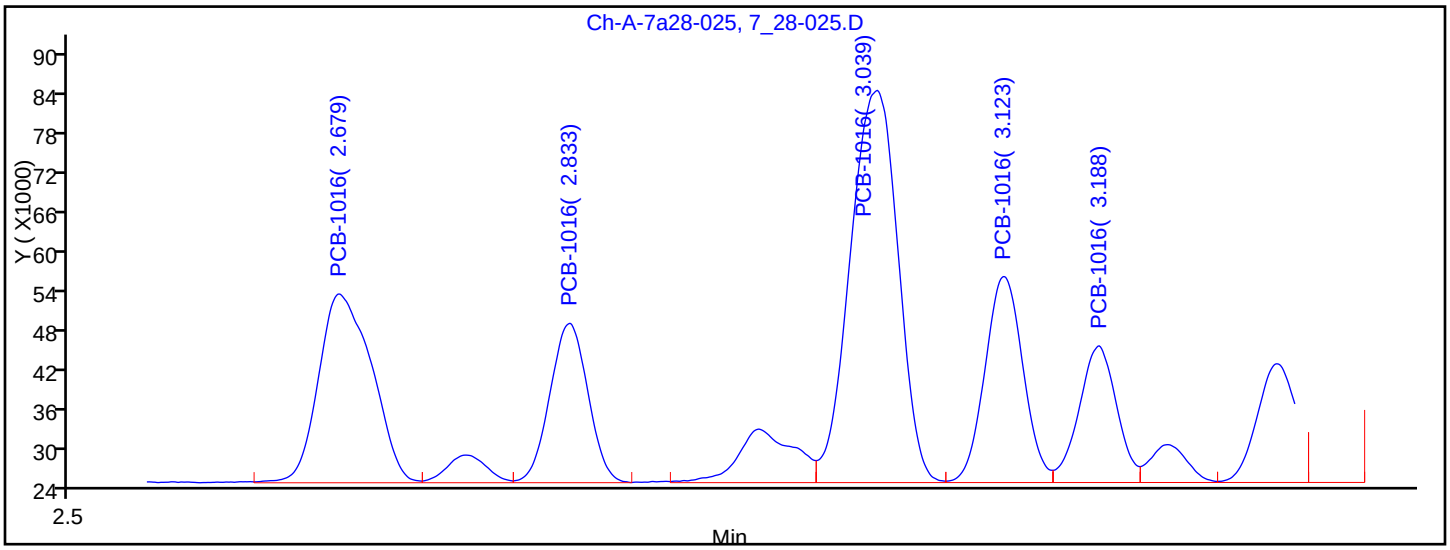
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.679	Response = 69947
2.833	Response = 42180
3.039	Response = 131067
3.123	Response = 54474
3.188	Response = 35626



Manual Integration Results

2.679	Response = 70180	M
2.833	Response = 42348	M
3.039	Response = 131470	M
3.123	Response = 54848	M
3.188	Response = 35957	M

Reviewer: owenj, 28-Mar-2017 15:39:45

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 14:20:25 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:06:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.166	0.000	13792920	0.5000	0.5000	
2	1.049	1.049	0.000	24913854	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.092	2.092	0.000	32243	0.000500	0.000504	
2	1.628	1.628	0.000	29453	0.000500	0.000370	M
						RPD = 30.68	
9 PCB-1016							M
1	2.678	2.678	0.000	40090	0.0200	0.0185	M
1	2.833	2.833	0.000	32281	0.0200	0.0240	M
1	3.038	3.038	0.000	59419	0.0200	0.0186	M
1	3.124	3.124	0.000	28193	0.0200	0.0184	M
1	3.187	3.187	0.000	16055	0.0200	0.0176	M
		Average of Peak Amounts =				0.0194	
2	2.320	2.320	0.000	75232	0.0200	0.0192	M
2	2.629	2.629	0.000	100551	0.0200	0.0166	M
2	2.741	2.741	0.000	42091	0.0200	0.0164	M
2	2.832	2.832	0.000	24350	0.0200	0.0155	M
2	3.108	3.108	0.000	39819	0.0200	0.0151	M
		Average of Peak Amounts =				0.0166	
						RPD = 15.66	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.920	0.000	53350	0.0200	0.0208	M
1	5.050	5.050	0.000	28146	0.0200	0.0190	M
1	5.243	5.243	0.000	26897	0.0200	0.0191	M
1	5.448	5.448	0.000	64230	0.0200	0.0207	M
1	5.705	5.705	0.000	33766	0.0200	0.0199	M
		Average of Peak Amounts =				0.0199	
2	4.460	4.460	0.000	53484	0.0200	0.0201	M
2	4.525	4.525	0.000	42671	0.0200	0.0186	M
2	4.850	4.850	0.000	29246	0.0200	0.0176	M
2	4.925	4.925	0.000	87081	0.0200	0.0206	M
2	5.256	5.256	0.000	55612	0.0200	0.0207	M
		Average of Peak Amounts =				0.0195	
						RPD = 1.86	
$ 15 DCB Decachlorobiphenyl							M
1	7.180	7.180	0.000	23559	0.000500	0.000570	M
2	6.309	6.309	0.000	31563	0.000500	0.000522	M
						RPD = 8.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00005 Amount Added: 1.00 Units: mL

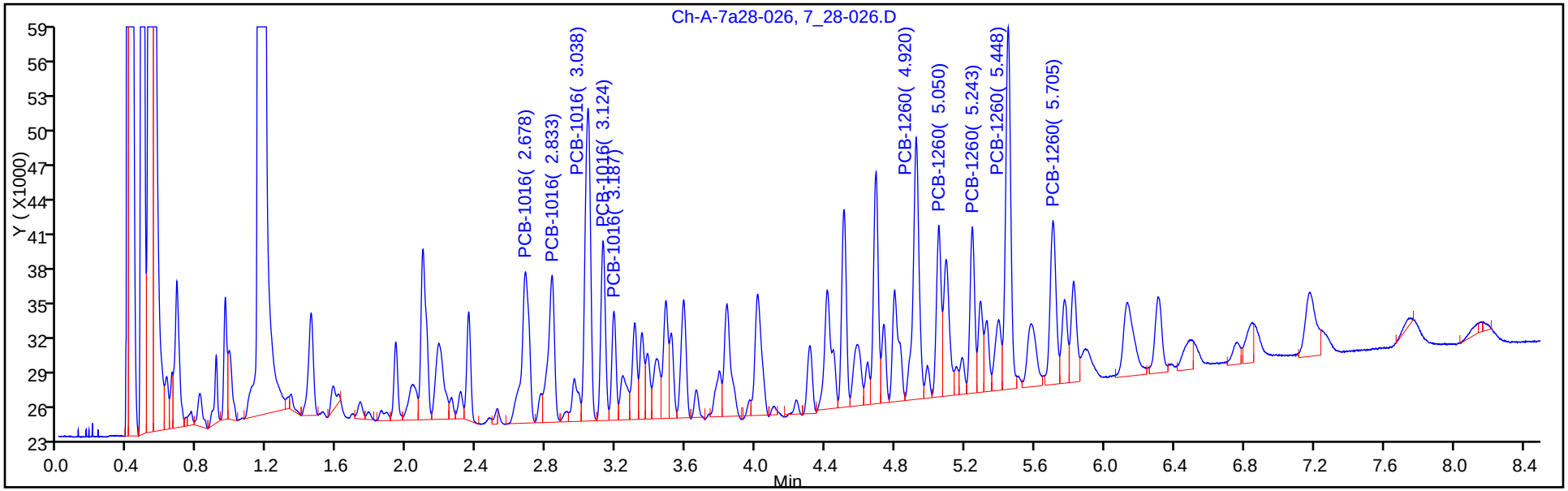
Report Date: 29-Mar-2017 10:53:59 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

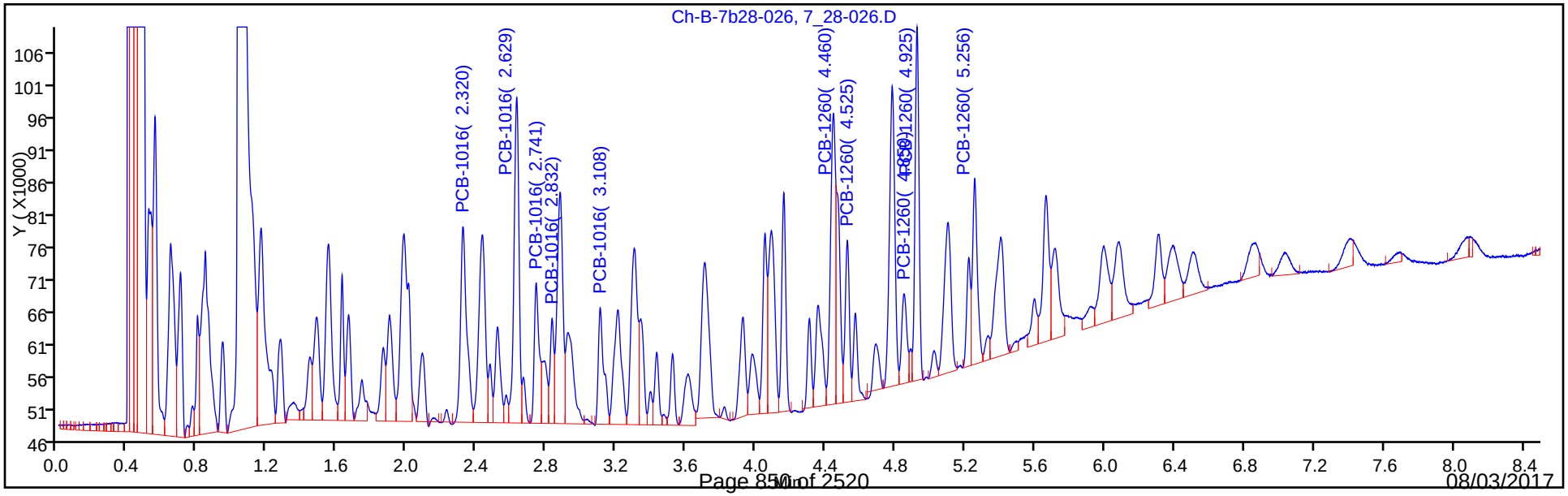
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date:	28-Mar-2017 14:20:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

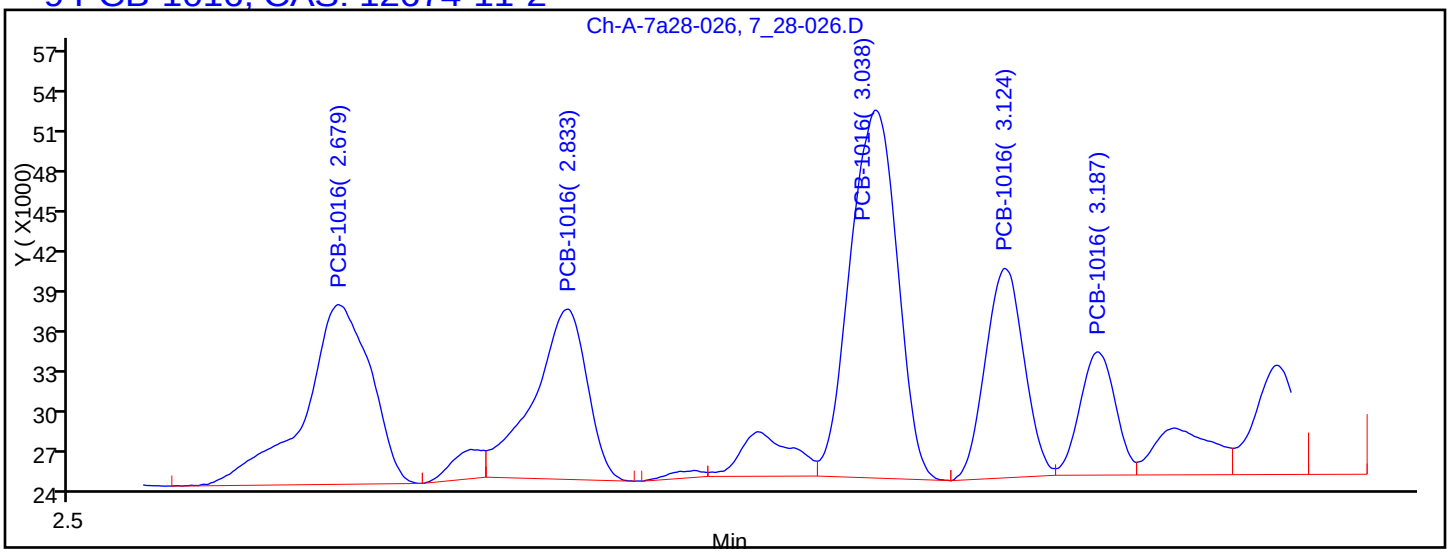
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

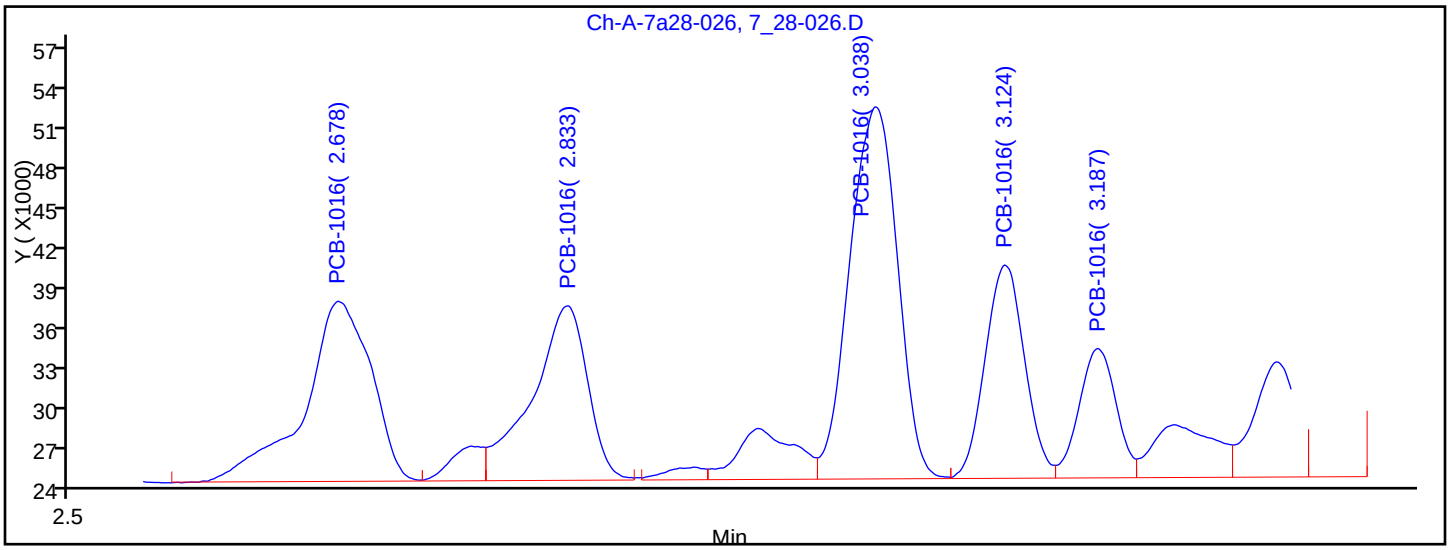
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.679	Response = 40025
2.833	Response = 30389
3.038	Response = 57961
3.124	Response = 27095
3.187	Response = 14643



Manual Integration Results

2.678	Response = 40090	M
2.833	Response = 32281	M
3.038	Response = 59419	M
3.124	Response = 28193	M
3.187	Response = 16055	M

Reviewer: owenj, 28-Mar-2017 15:41:06

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

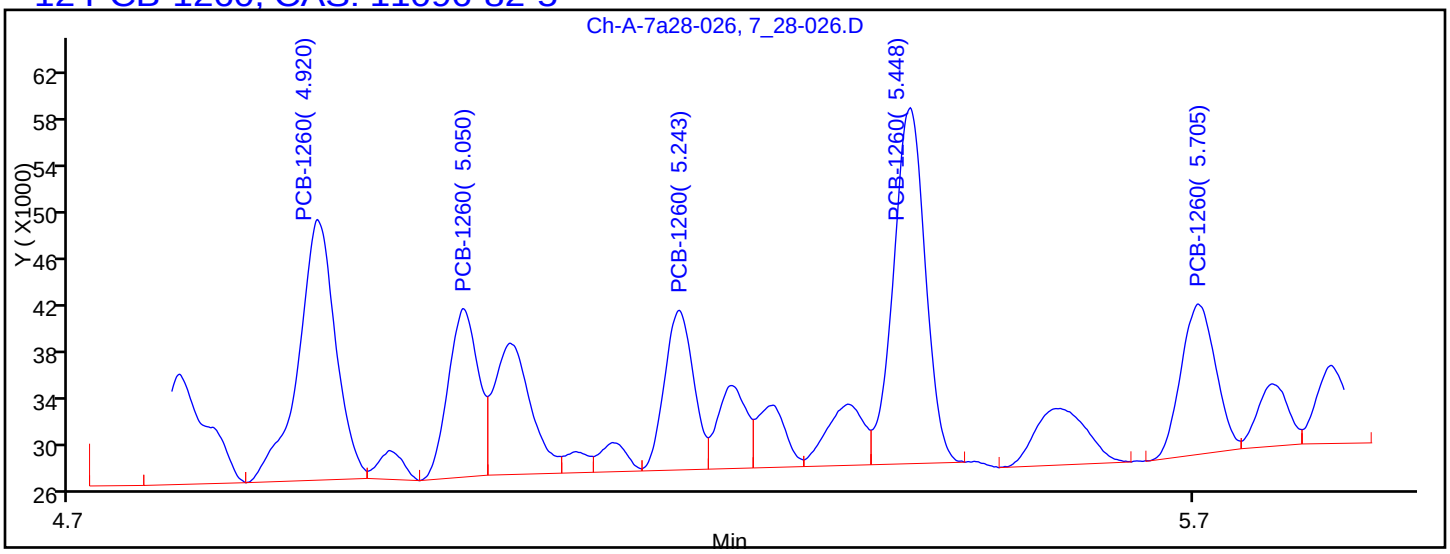
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

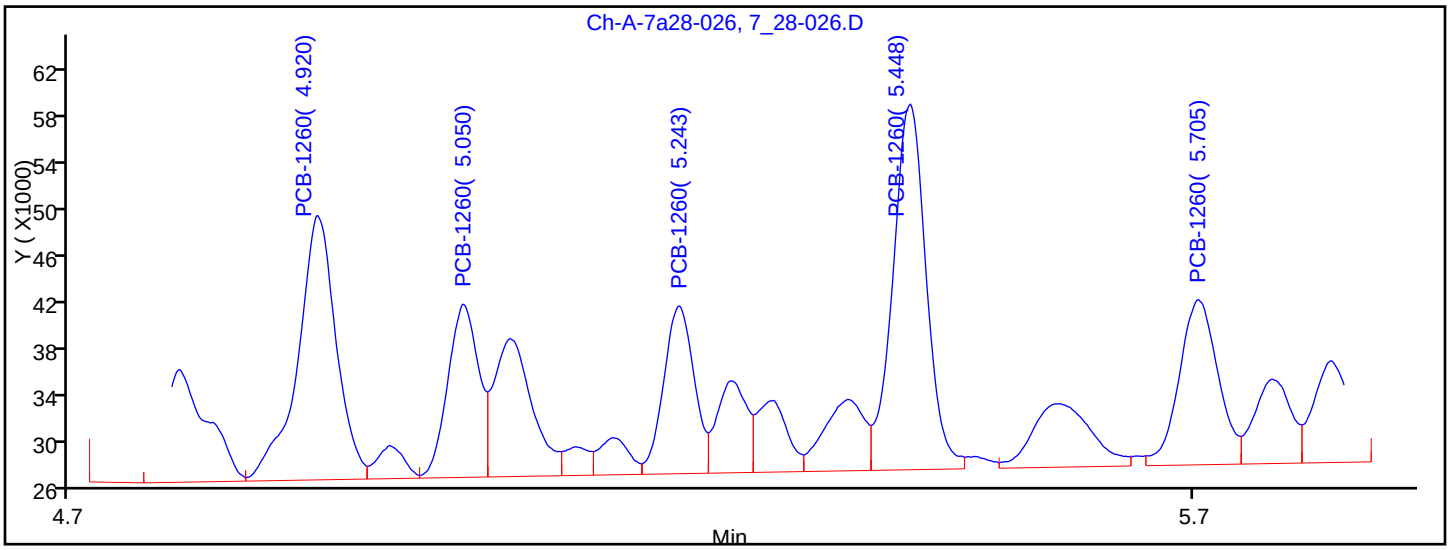
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.920	Response = 50860
5.050	Response = 26706
5.243	Response = 24295
5.448	Response = 59545
5.705	Response = 27397



Manual Integration Results

4.920	Response = 53350	M
5.050	Response = 28146	M
5.243	Response = 26897	M
5.448	Response = 64230	M
5.705	Response = 33766	M

Reviewer: owenj, 28-Mar-2017 15:41:03

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

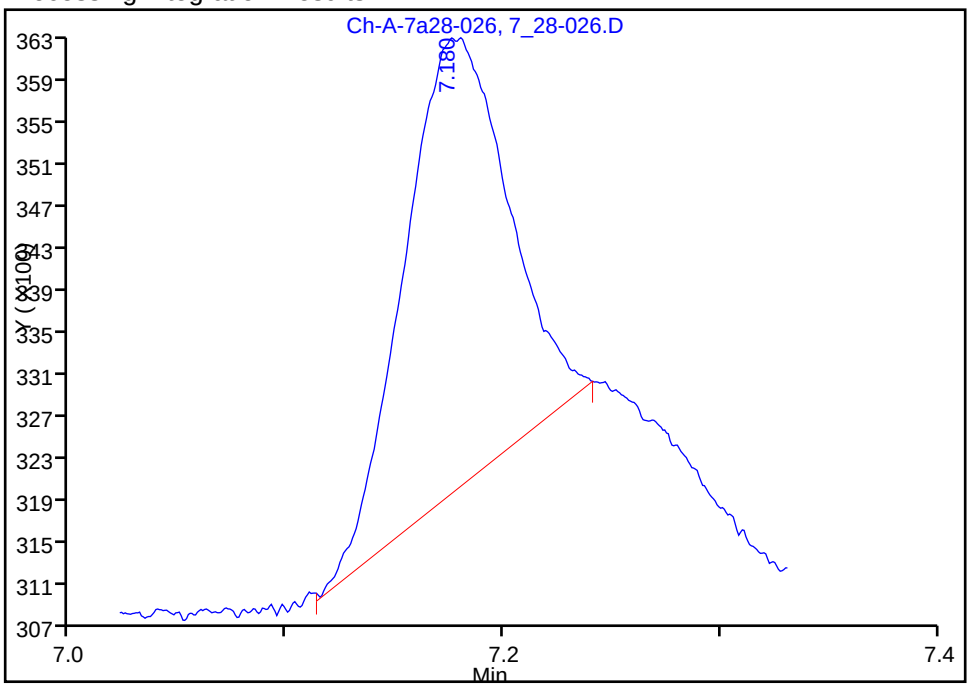
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

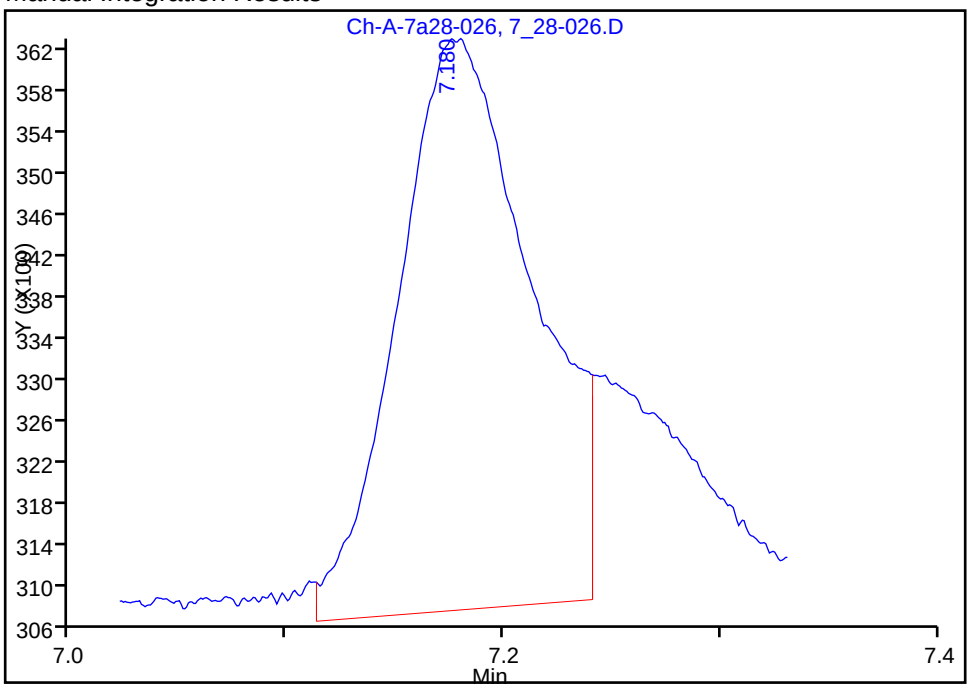
Processing Integration Results

RT: 7.18
Area: 14218
Amount: 0.000382
Amount Units: ng/uL



Manual Integration Results

RT: 7.18
Area: 23559
Amount: 0.000570
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:41:03
Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30037

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0755 0.0338	0.0461 0.0320	0.0431	0.0392	0.0357	Lin1	0.0009	0.0324							0.9990		0.9900
PCB-1016 Peak 2	0.1009 0.0705	0.0894 0.0691	0.0834	0.0772	0.0727	Lin1	0.0009	0.0696							0.9990		0.9900
PCB-1016 Peak 3	0.0422 0.0267	0.0346 0.0259	0.0328	0.0301	0.0277	Lin1	0.0004	0.0262							0.9990		0.9900
PCB-1016 Peak 4	0.0244 0.0180	0.0226 0.0175	0.0218	0.0201	0.0185	Lin1	0.0002	0.0177							0.9990		0.9900
PCB-1016 Peak 5	0.0400 0.0307	0.0386 0.0301	0.0374	0.0344	0.0318	Lin1	0.0003	0.0304							0.9990		0.9900
PCB-1260 Peak 1	0.0537 0.0354	0.0414 0.0355	0.0396	0.0374	0.0362	Lin1	0.0004	0.0353							1.0000		0.9900
PCB-1260 Peak 2	0.0428 0.0325	0.0378 0.0324	0.0364	0.0342	0.0326	Lin1	0.0003	0.0323							1.0000		0.9900
PCB-1260 Peak 3	0.0293 0.0254	0.0293 0.0254	0.0283	0.0269	0.0253	Lin1	0.0001	0.0253							1.0000		0.9900
PCB-1260 Peak 4	0.0874 0.0812	0.0844 0.0832	0.0829	0.0808	0.0799	Lin1	0.0001	0.0820							1.0000		0.9900
PCB-1260 Peak 5	0.0558 0.0489	0.0518 0.0503	0.0501	0.0495	0.0486	Lin1	0.0001	0.0495							1.0000		0.9900
Tetrachloro-m-xylene	1.1822 1.1160	1.3665 1.0954	1.2899	1.2097	1.1364	Lin1	0.0002	1.1078							0.9990		0.9900
DCB Decachlorobiphenyl	1.2669 0.7210	0.8834 0.7155	0.8223	0.7589	0.7359	Lin1	0.0003	0.7106							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30037

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	75232 1750650	119218 3225340	221184	407072	924630	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	100551 3648843	231069 6960596	427950	801927	1883383	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	42091 1382864	89547 2614031	168178	312839	717244	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	24350 930174	58550 1765496	111933	208461	478556	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	39819 1590176	99815 3029614	191892	357784	824152	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	53484 1832024	107037 3578378	203046	388118	937560	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	42671 1681113	97606 3267180	186861	355175	846078	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	29246 1316272	75849 2555055	145043	278936	654832	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	87081 4197806	218116 8387014	425544	839381	2070270	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	55612 2530850	134029 5066416	256997	513815	1260909	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	29453 1443081	88309 2759910	165536	314174	736370	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	31563 932252	57089 1802857	105526	197094	476855	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Mar-2017 12:44:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:37 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 13:28:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13783622	0.5000	0.5000	
2	1.050	1.049	0.001	25196320	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.091	0.000	1643301	0.0500	0.0494	M
2	1.630	1.630	0.000	2759910	0.0500	0.0493	
						RPD = 0.19	
9 PCB-1016							M
1	2.680	2.680	0.000	1990674	2.00	1.96	
1	2.833	2.833	0.000	1229448	2.00	1.98	
1	3.038	3.038	0.000	4351045	2.00	1.98	
1	3.124	3.124	0.000	1614519	2.00	1.98	
1	3.188	3.188	0.000	1125851	2.00	1.98	
		Average of Peak Amounts =				1.98	
2	2.323	2.322	0.000	3225340	2.00	1.95	M
2	2.630	2.629	0.001	6960596	2.00	1.97	M
2	2.741	2.740	0.001	2614031	2.00	1.96	M
2	2.833	2.832	0.000	1765496	2.00	1.97	M
2	3.108	3.108	0.000	3029614	2.00	1.96	M
		Average of Peak Amounts =				1.96	
						RPD = 0.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	3456088	2.00	2.02	
1	5.049	5.050	-0.001	1936068	2.00	2.01	
1	5.243	5.241	0.001	1828525	2.00	2.01	
1	5.448	5.448	0.000	4599282	2.00	2.01	
1	5.705	5.704	0.001	2179578	2.00	2.02	
		Average of Peak Amounts =				2.01	
2	4.474	4.473	0.001	3578378	2.00	2.00	M
2	4.526	4.525	0.001	3267180	2.00	2.00	M
2	4.852	4.850	0.002	2555055	2.00	2.00	M
2	4.926	4.925	0.001	8387014	2.00	2.03	M
2	5.256	5.256	0.000	5066416	2.00	2.03	M
		Average of Peak Amounts =				2.01	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							M
1	7.176	7.173	0.003	945567	0.0500	0.0496	
2	6.309	6.309	0.000	1802857	0.0500	0.0500	M
						RPD = 0.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00005 Amount Added: 1.00 Units: mL

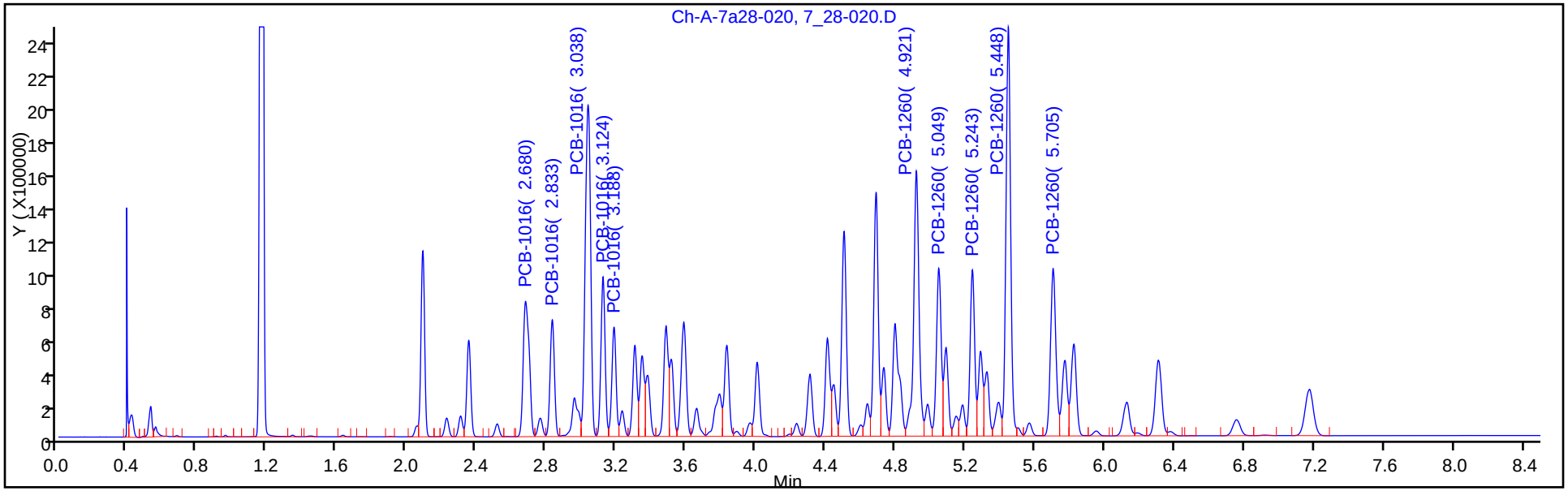
Report Date: 29-Mar-2017 10:53:38 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

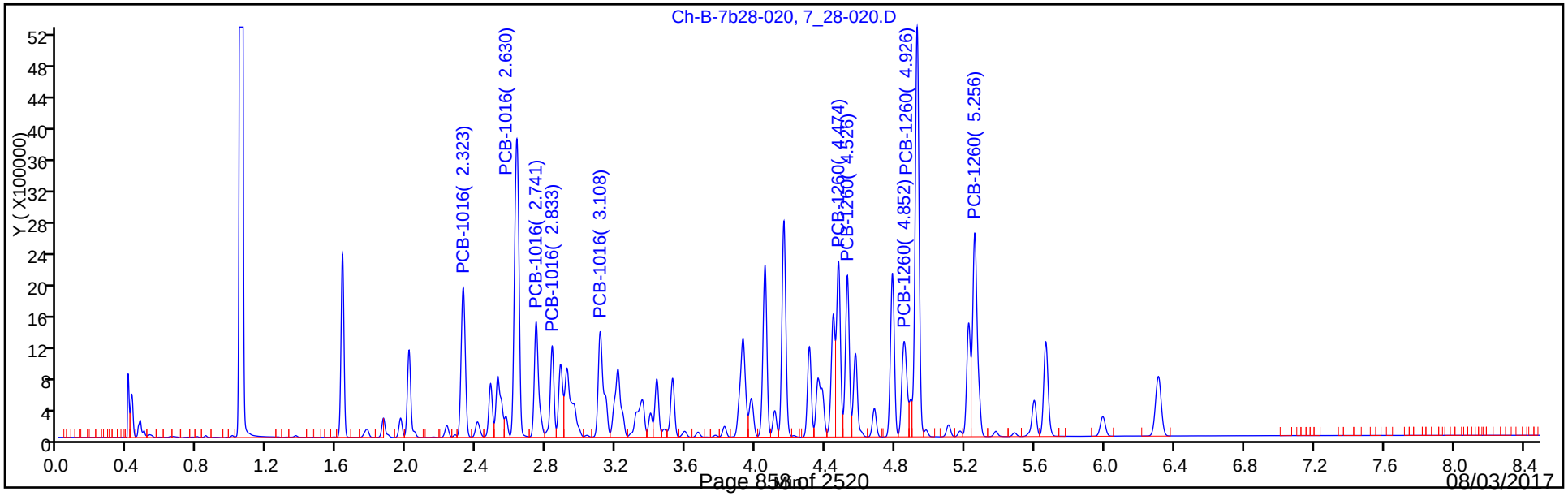
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date:	28-Mar-2017 12:44:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:39 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7

Lims ID: IC 7

Client ID:

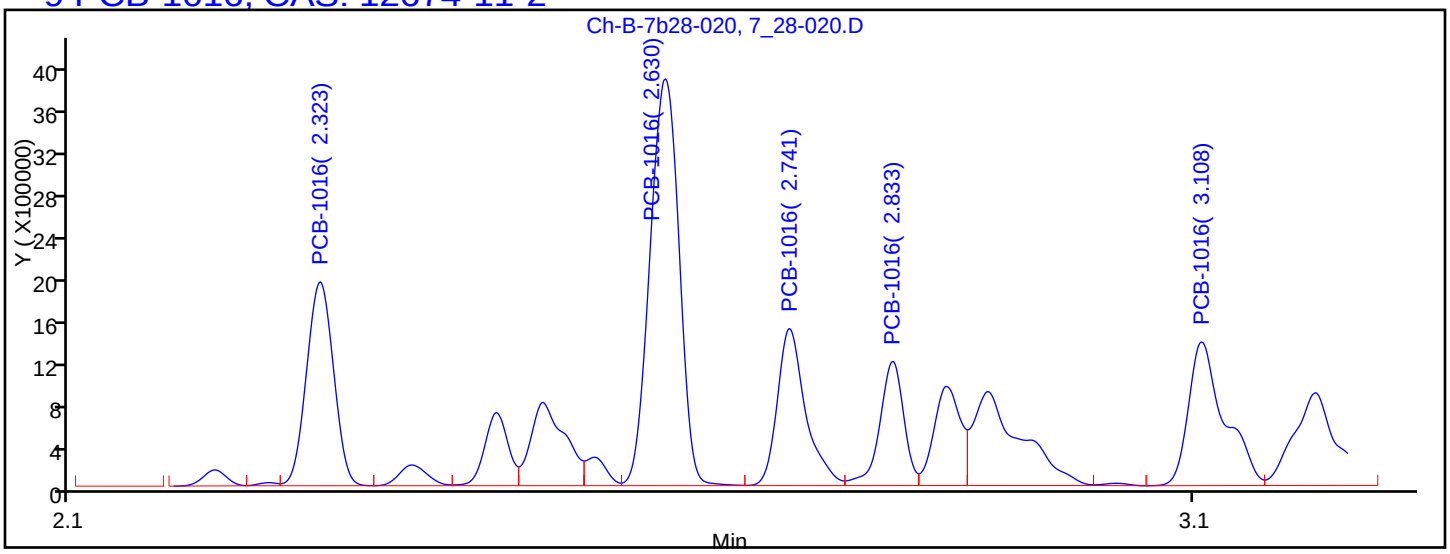
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

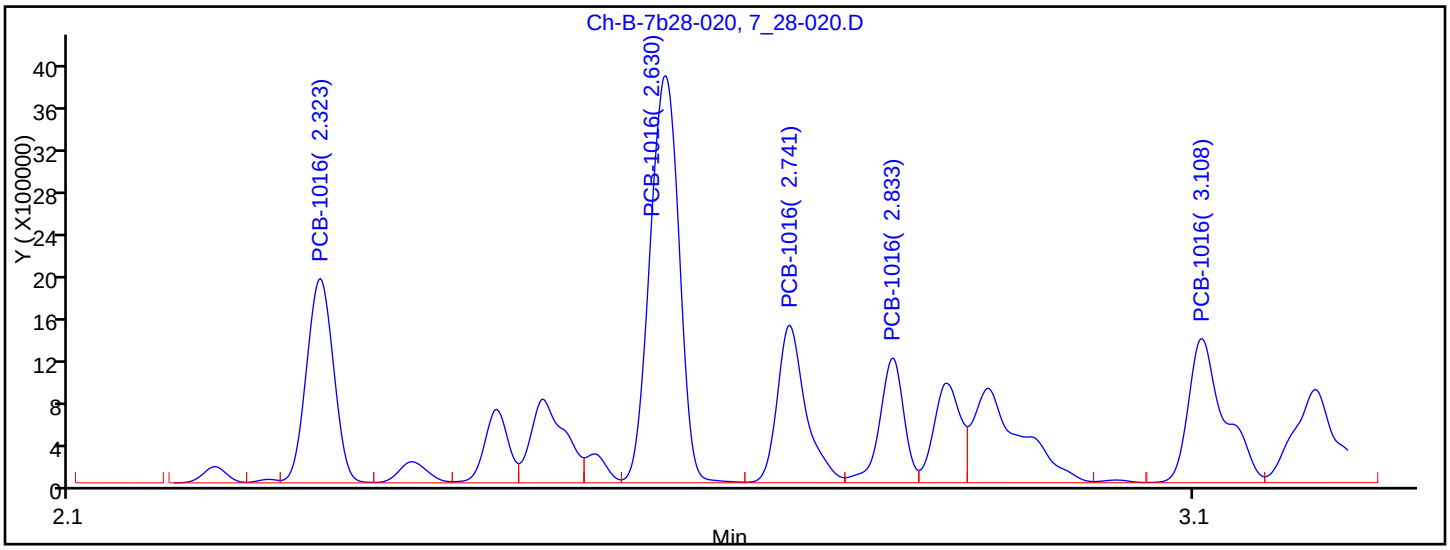
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.323	Response = 3208760
2.630	Response = 6935787
2.741	Response = 2593346
2.833	Response = 1749465
3.108	Response = 3009268



Manual Integration Results

2.323	Response = 3225340	M
2.630	Response = 6960596	M
2.741	Response = 2614031	M
2.833	Response = 1765496	M
3.108	Response = 3029614	M

Reviewer: owenj, 28-Mar-2017 15:09:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:39 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7

Lims ID: IC 7

Client ID:

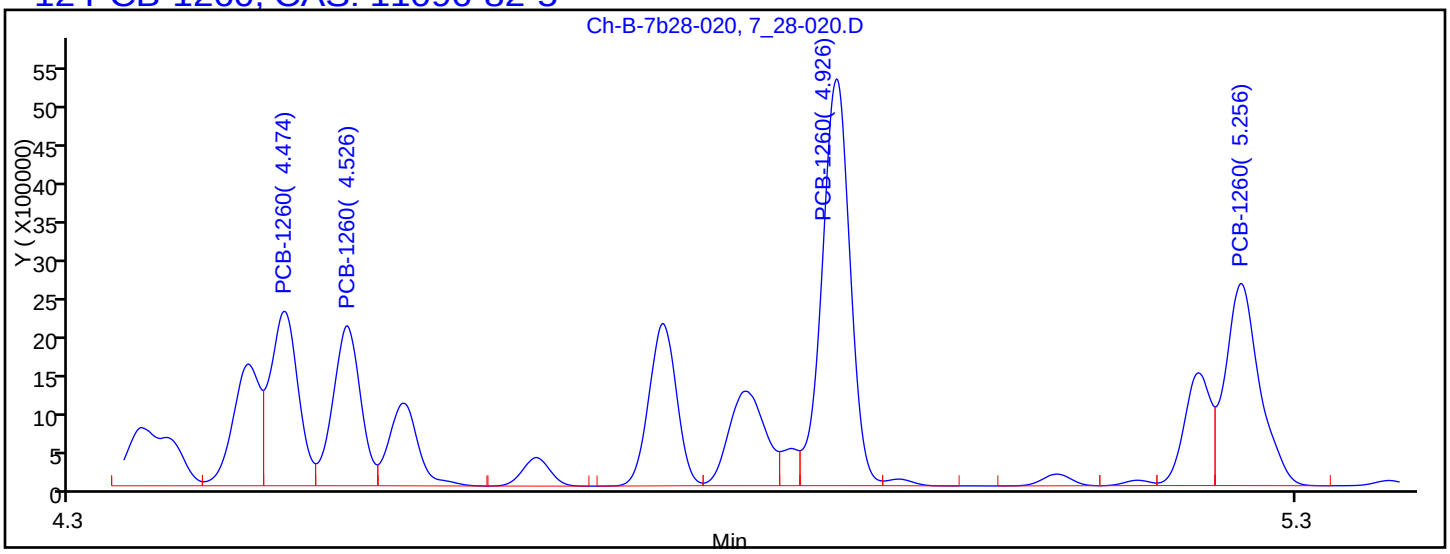
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

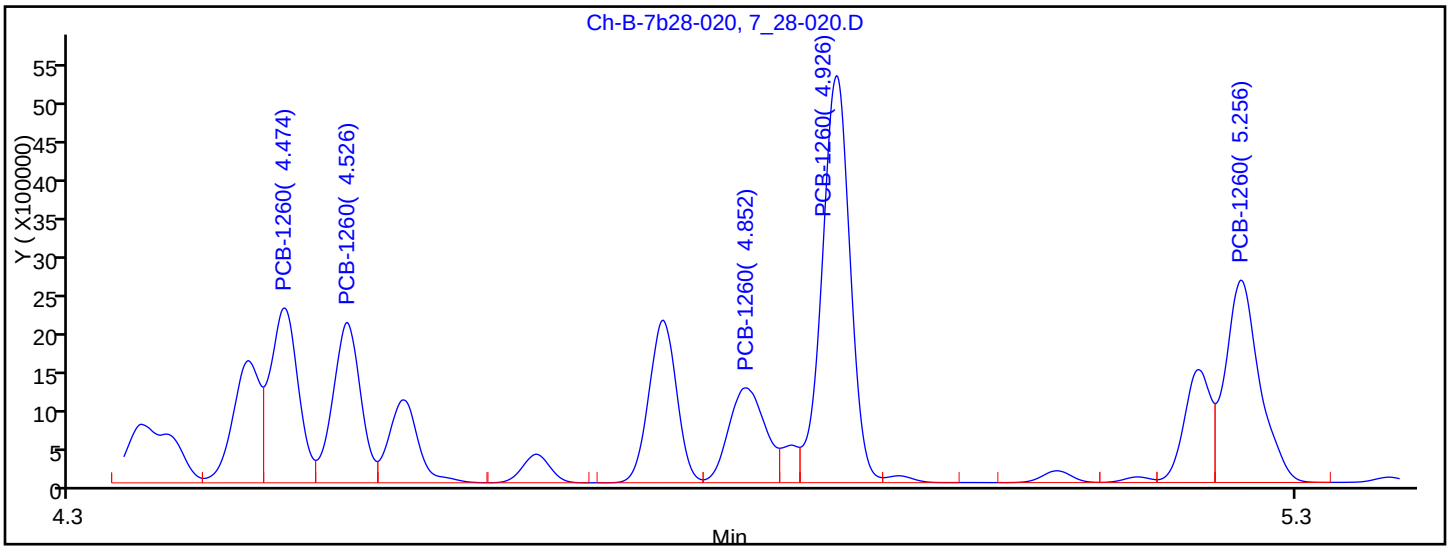
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 3565365
4.526	Response = 3251904
4.784	Response = 3298061
4.926	Response = 8369298
5.256	Response = 5052676



Manual Integration Results

4.474	Response = 3578378	M
4.526	Response = 3267180	M
4.852	Response = 2555055	M
4.926	Response = 8387014	M
5.256	Response = 5066416	M

Reviewer: owenj, 28-Mar-2017 15:47:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

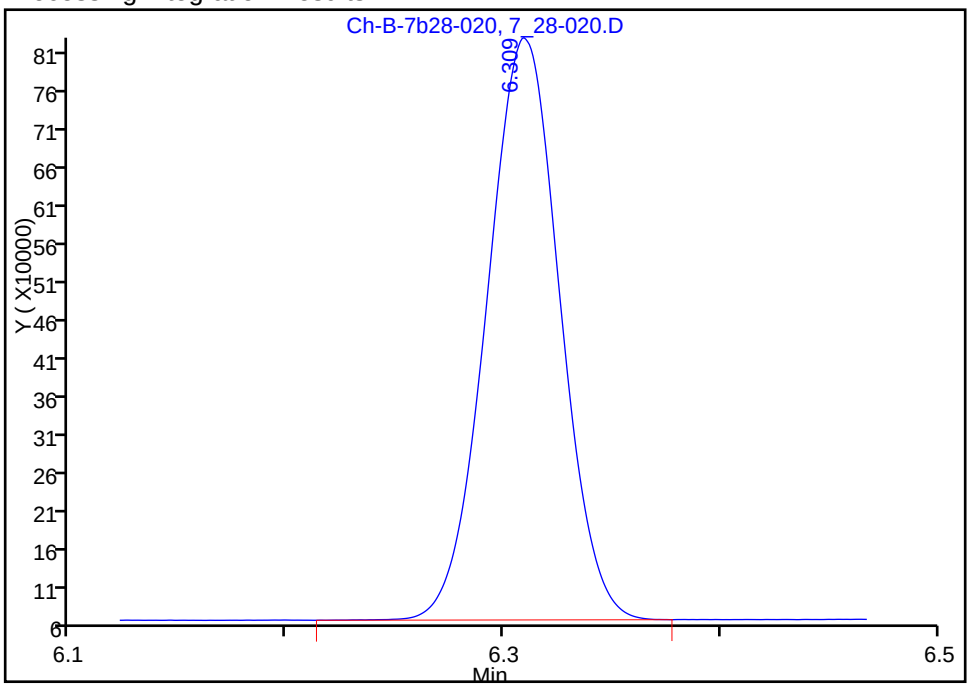
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

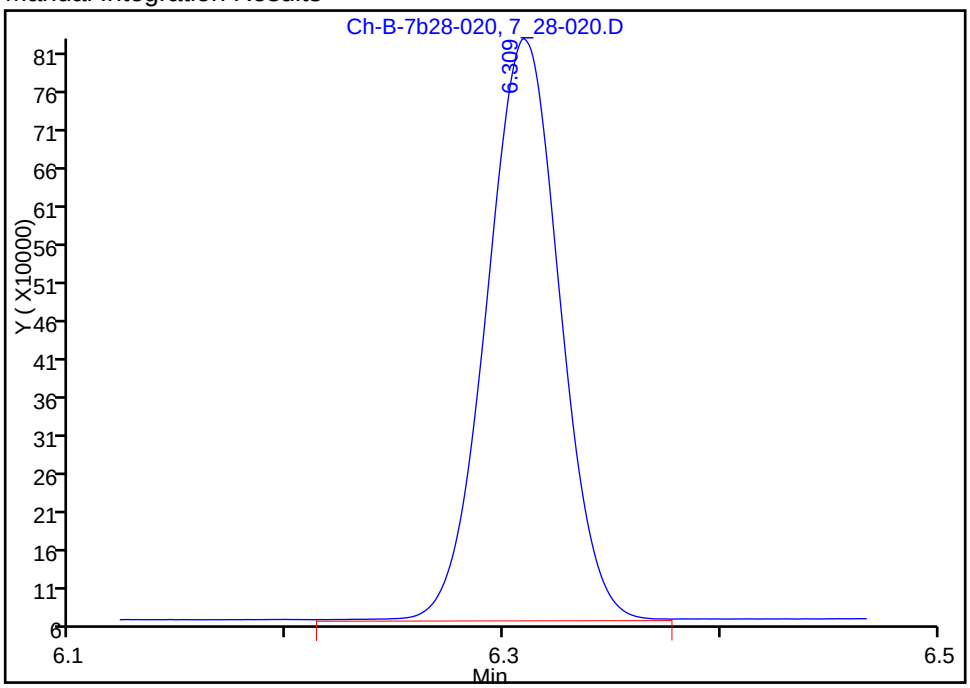
Processing Integration Results

RT: 6.31
Area: 1783192
Amount: 0.049410
Amount Units: ng/uL



Manual Integration Results

RT: 6.31
Area: 1802857
Amount: 0.049978
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:09:24
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Mar-2017 13:00:25 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:41 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	14192996	0.5000	0.5000	
2	1.051	1.049	0.002	25860623	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.091	2.091	0.000	878514	0.0250	0.0254	
2	1.630	1.630	0.000	1443081	0.0250	0.0250	
						RPD = 1.51	
9 PCB-1016							M
1	2.680	2.680	0.000	1069406	1.00	1.01	
1	2.833	2.833	0.000	657284	1.00	1.01	
1	3.037	3.038	-0.001	2281855	1.00	1.00	
1	3.124	3.124	0.000	847778	1.00	1.00	
1	3.188	3.188	0.000	585173	1.00	1.00	
		Average of Peak Amounts =				1.01	
2	2.322	2.322	0.000	1750650	1.00	1.02	M
2	2.630	2.629	0.001	3648843	1.00	1.00	M
2	2.740	2.740	0.000	1382864	1.00	1.00	M
2	2.833	2.832	0.000	930174	1.00	1.00	M
2	3.108	3.108	0.000	1590176	1.00	1.00	M
		Average of Peak Amounts =				1.01	
						RPD = 0.01	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	1757860	1.00	0.99	
1	5.049	5.050	-0.001	985992	1.00	0.9889	
1	5.243	5.241	0.001	928651	1.00	0.9864	
1	5.448	5.448	0.000	2370953	1.00	1.00	
1	5.705	5.704	0.001	1105773	1.00	0.9872	
		Average of Peak Amounts =				0.99	
2	4.475	4.473	0.002	1832024	1.00	0.99	M
2	4.526	4.525	0.001	1681113	1.00	1.00	M
2	4.853	4.850	0.002	1316272	1.00	1.00	M
2	4.926	4.925	0.001	4197806	1.00	0.9885	M
2	5.256	5.256	0.000	2530850	1.00	0.9857	M
		Average of Peak Amounts =				0.99	
						RPD = 0.22	
$ 15 DCB Decachlorobiphenyl							
1	7.176	7.173	0.003	497557	0.0250	0.0250	
2	6.310	6.309	0.001	932252	0.0250	0.0250	
						RPD = 0.14	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00006 Amount Added: 1.00 Units: mL

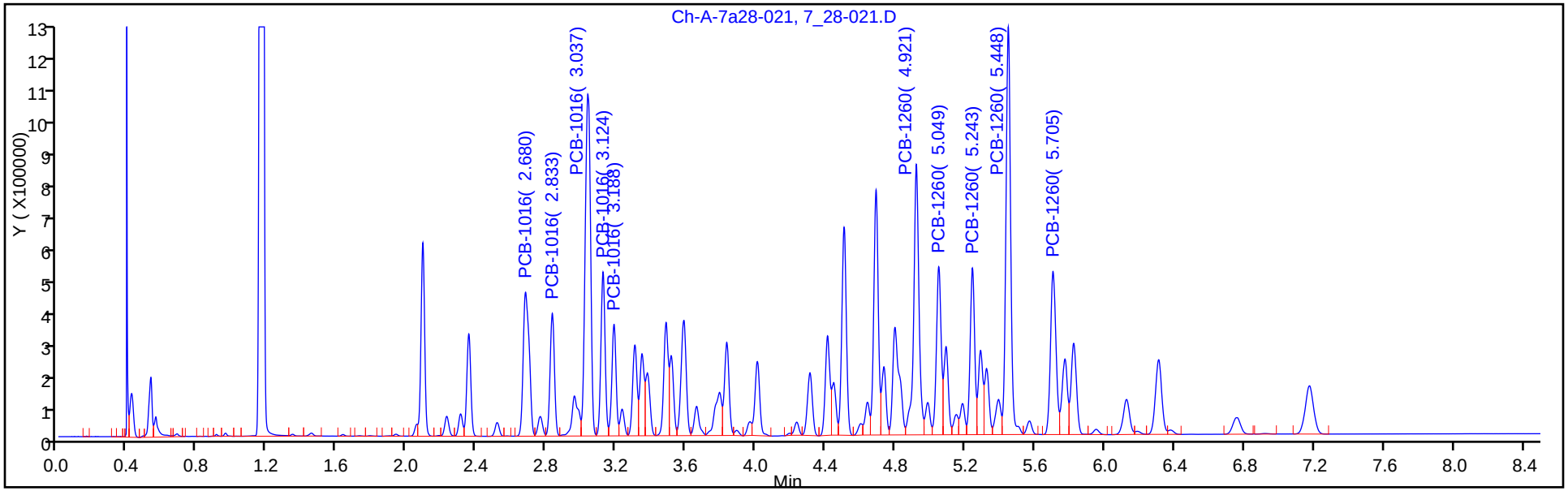
Report Date: 29-Mar-2017 10:53:42 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

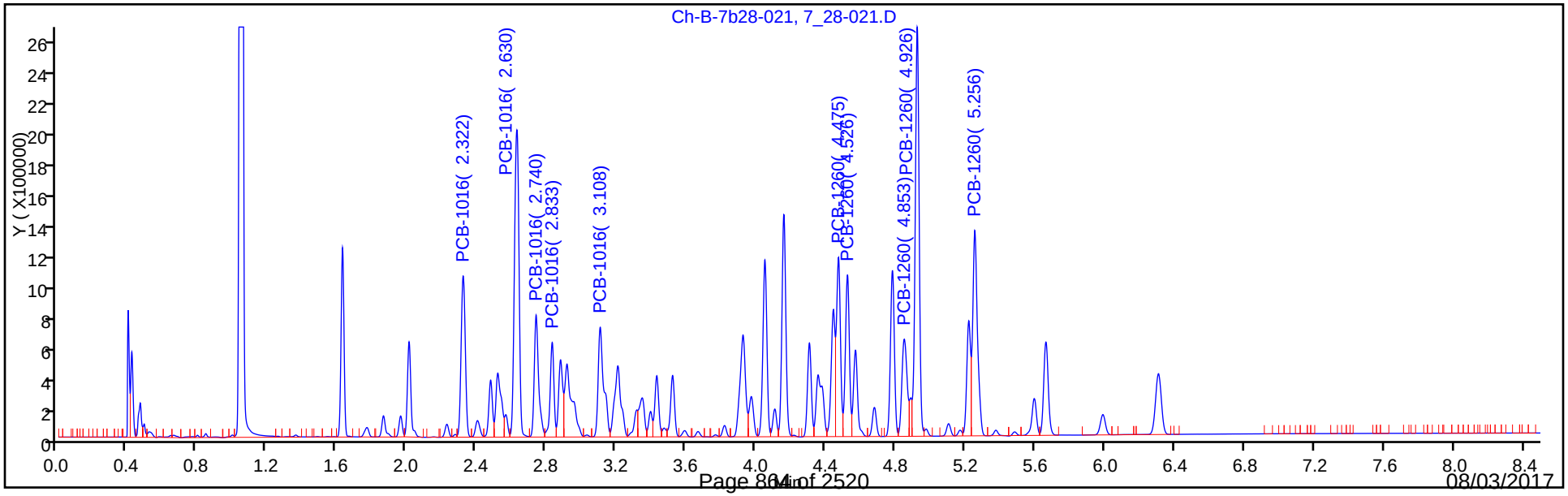
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date:	28-Mar-2017 13:00:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:42 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date: 28-Mar-2017 13:00:25 Instrument ID: HP6890-7

Lims ID: IC 6

Client ID:

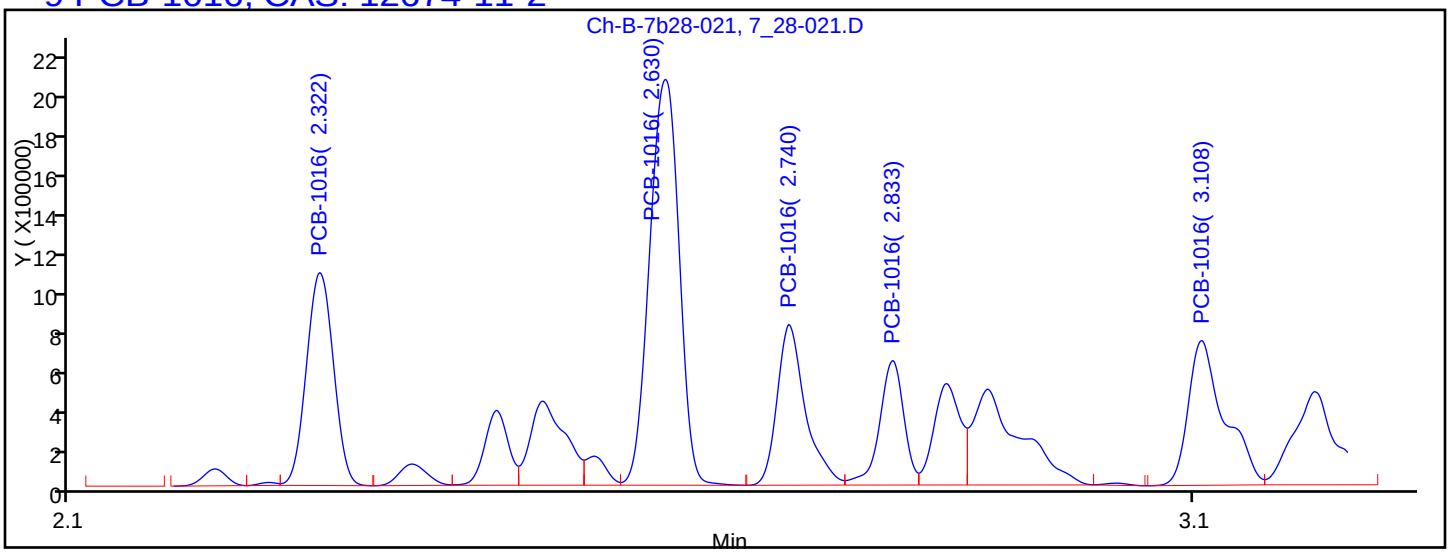
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

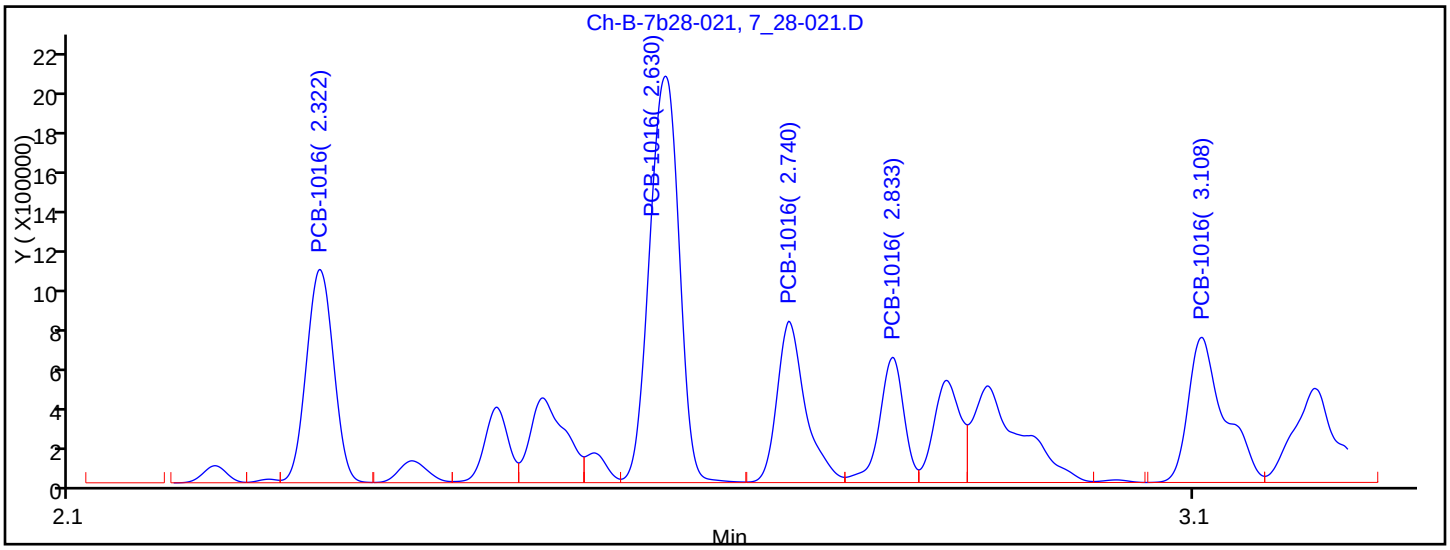
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 1739471
2.630	Response = 3627671
2.740	Response = 1365841
2.833	Response = 915091
3.108	Response = 1576973



Manual Integration Results

2.322	Response = 1750650	M
2.630	Response = 3648843	M
2.740	Response = 1382864	M
2.833	Response = 930174	M
3.108	Response = 1590176	M

Reviewer: owenj, 28-Mar-2017 15:37:47

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:42 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date: 28-Mar-2017 13:00:25 Instrument ID: HP6890-7

Lims ID: IC 6

Client ID:

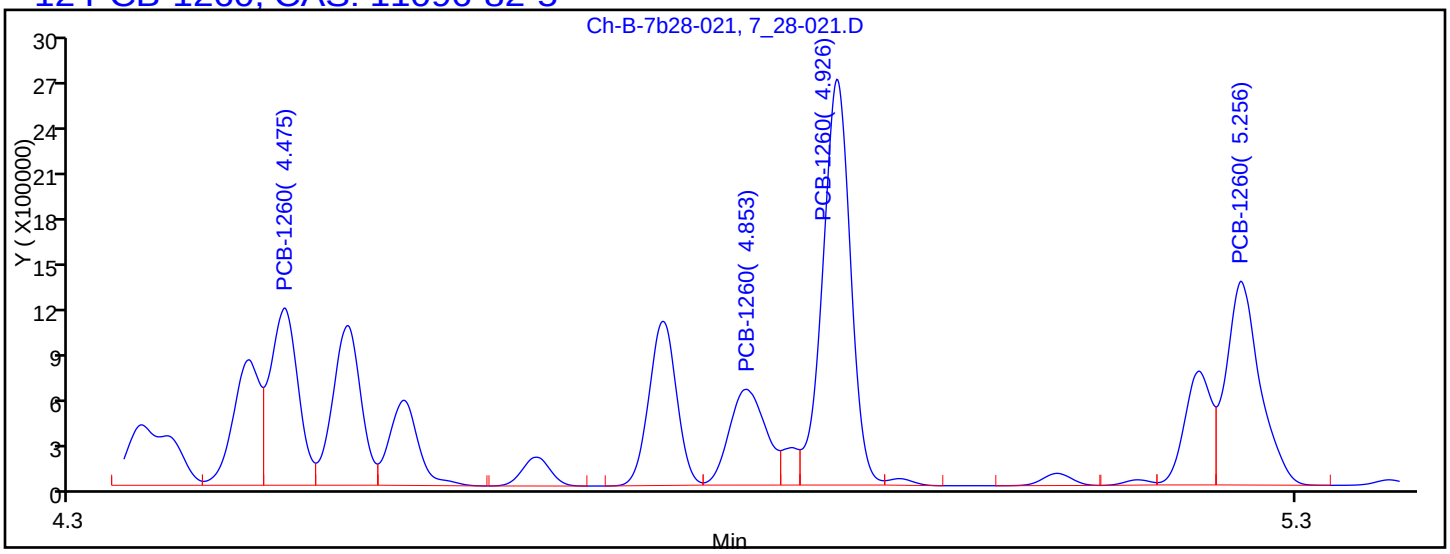
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

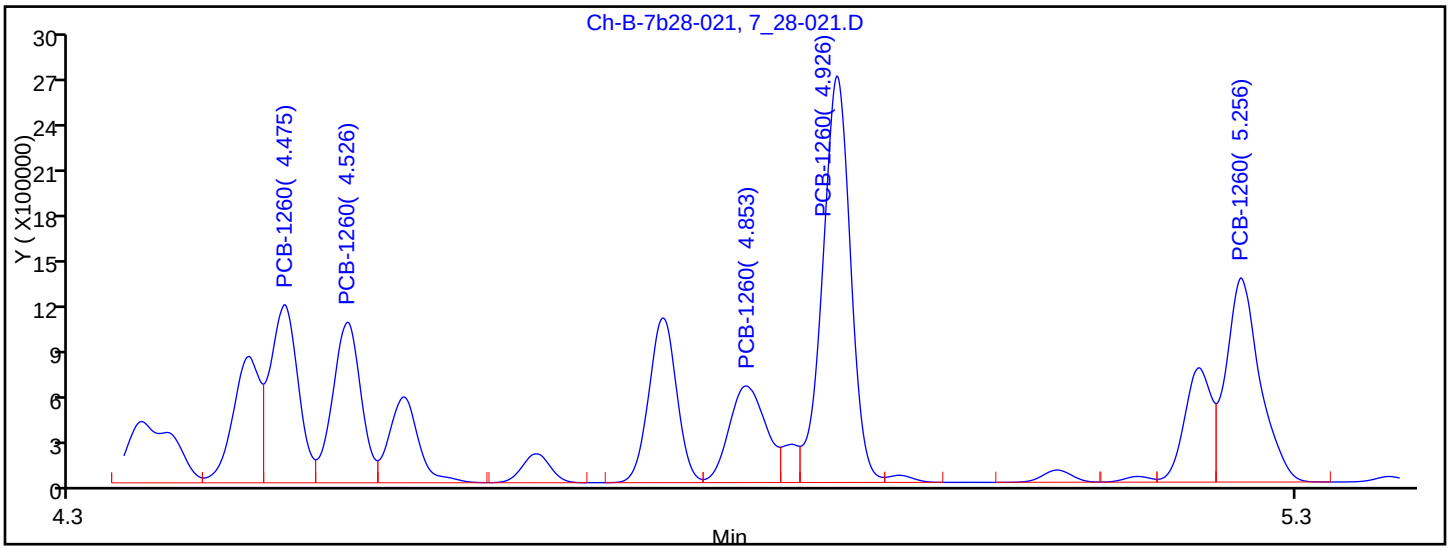
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.475	Response = 1816865
4.784	Response = 1674827
4.853	Response = 1296082
4.926	Response = 4177525
5.256	Response = 2522156



Manual Integration Results

4.475	Response = 1832024	M
4.526	Response = 1681113	M
4.853	Response = 1316272	M
4.926	Response = 4197806	M
5.256	Response = 2530850	M

Reviewer: owenj, 28-Mar-2017 15:47:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-Mar-2017 13:16:37 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:26

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14198667	0.5000	0.5000	
2	1.050	1.050	0.000	25919091	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.092	2.092	0.000	443674	0.0125	0.0126	
2	1.629	1.629	0.000	736370	0.0125	0.0127	
						RPD = 0.55	
9 PCB-1016							M
1	2.681	2.681	0.000	559237	0.5000	0.5184	
1	2.834	2.834	0.000	343391	0.5000	0.5153	
1	3.038	3.038	0.000	1171814	0.5000	0.5111	
1	3.126	3.126	0.000	439612	0.5000	0.5111	
1	3.188	3.188	0.000	302019	0.5000	0.5088	
		Average of Peak Amounts =				0.5129	
2	2.322	2.322	0.000	924630	0.5000	0.5229	M
2	2.631	2.631	0.000	1883383	0.5000	0.5098	M
2	2.741	2.741	0.000	717244	0.5000	0.5121	M
2	2.833	2.833	0.000	478556	0.5000	0.5090	M
2	3.108	3.108	0.000	824152	0.5000	0.5114	M
		Average of Peak Amounts =				0.5131	
						RPD = 0.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	889920	0.5000	0.4959	
1	5.051	5.051	0.000	497820	0.5000	0.4940	
1	5.243	5.243	0.000	472274	0.5000	0.4962	
1	5.449	5.449	0.000	1182397	0.5000	0.4951	
1	5.706	5.706	0.000	558396	0.5000	0.4927	
		Average of Peak Amounts =				0.4948	
2	4.474	4.474	0.000	937560	0.5000	0.5023	M
2	4.526	4.526	0.000	846078	0.5000	0.4970	M
2	4.850	4.850	0.000	654832	0.5000	0.4930	M
2	4.926	4.926	0.000	2070270	0.5000	0.4860	M
2	5.256	5.256	0.000	1260909	0.5000	0.4890	M
		Average of Peak Amounts =				0.4935	
						RPD = 0.26	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.000	260424	0.0125	0.0128	
2	6.310	6.310	0.000	476855	0.0125	0.0126	
						RPD = 1.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00005 Amount Added: 1.00 Units: mL

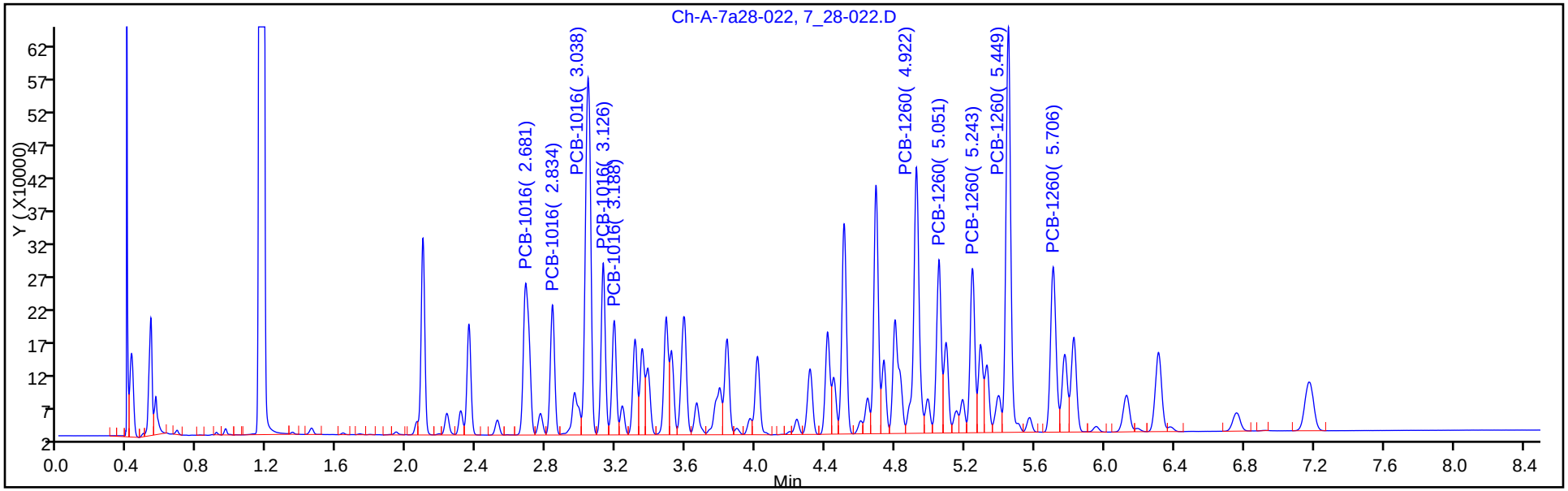
Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

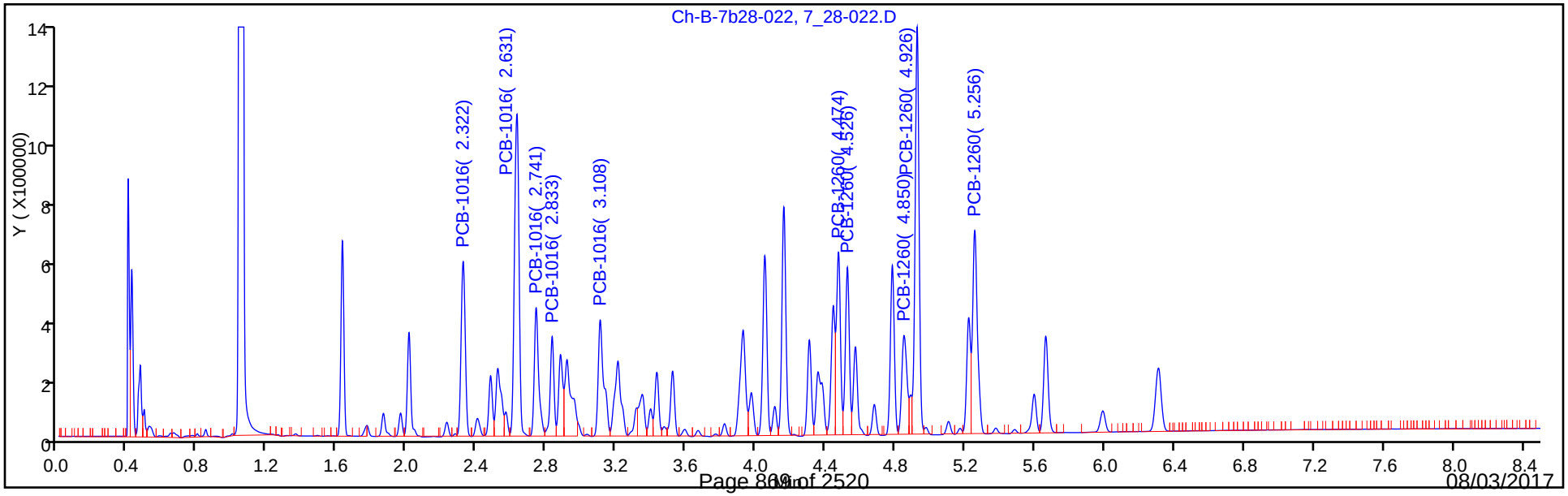
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date:	28-Mar-2017 13:16:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date: 28-Mar-2017 13:16:37 Instrument ID: HP6890-7

Lims ID: ICIS 5

Client ID:

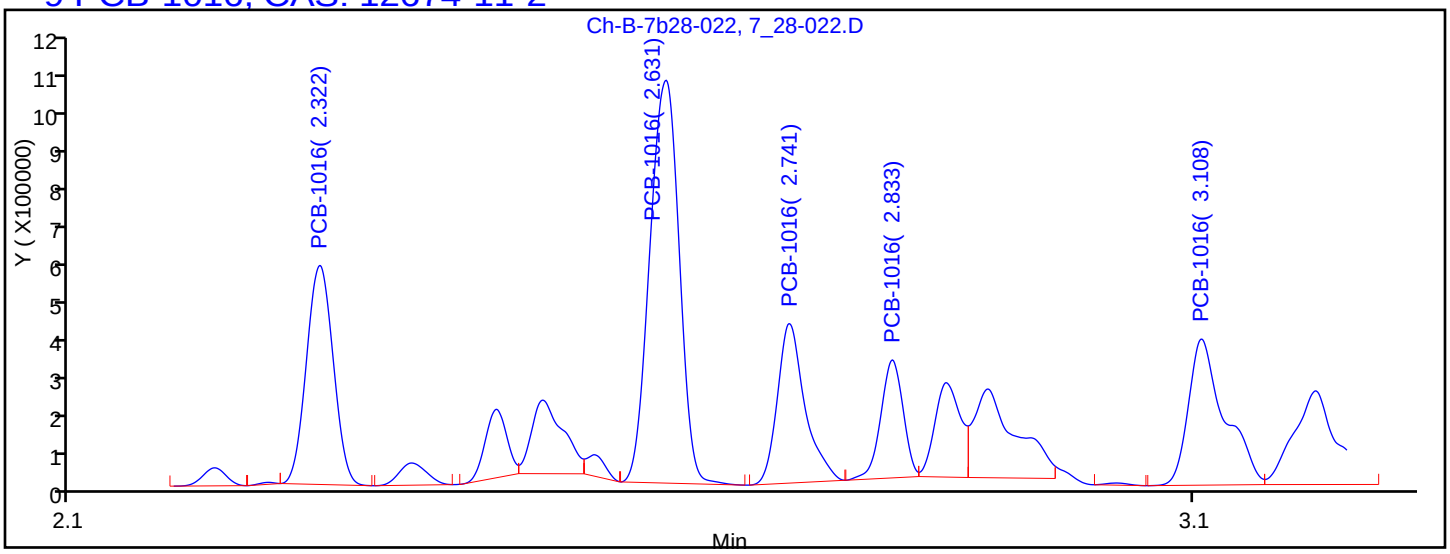
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

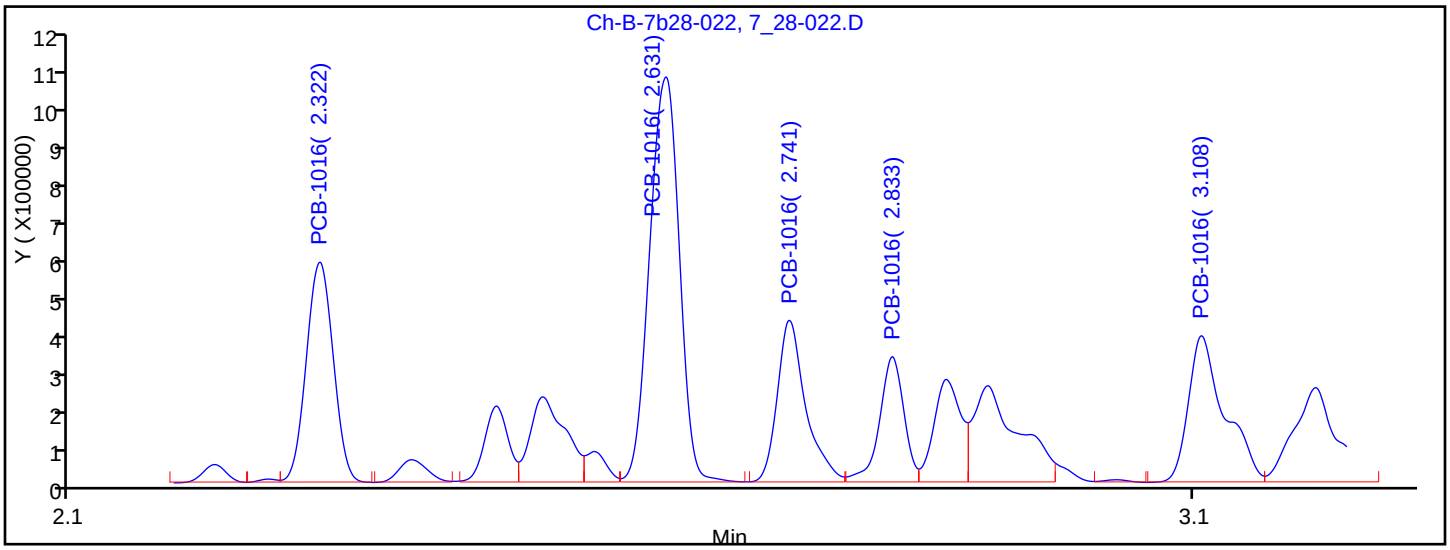
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 916437
2.631	Response = 1855048
2.741	Response = 685140
2.833	Response = 412040
3.108	Response = 823930



Manual Integration Results

2.322	Response = 924630	M
2.631	Response = 1883383	M
2.741	Response = 717244	M
2.833	Response = 478556	M
3.108	Response = 824152	M

Reviewer: owenj, 28-Mar-2017 15:38:19

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date: 28-Mar-2017 13:16:37 Instrument ID: HP6890-7

Lims ID: ICIS 5

Client ID:

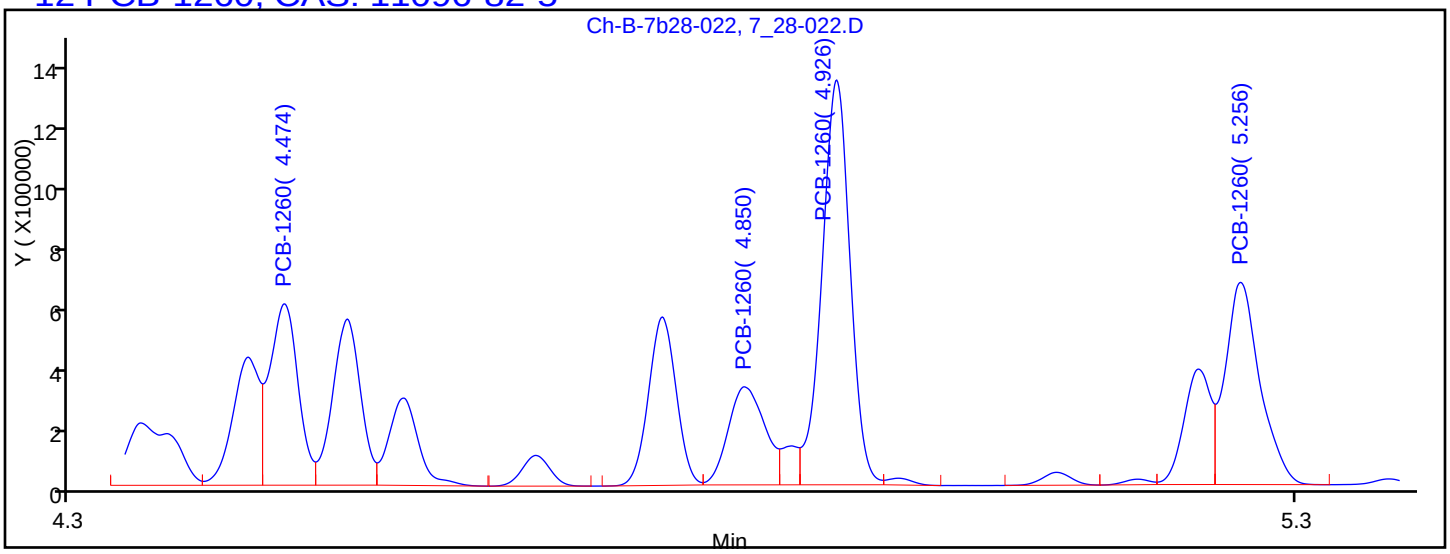
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

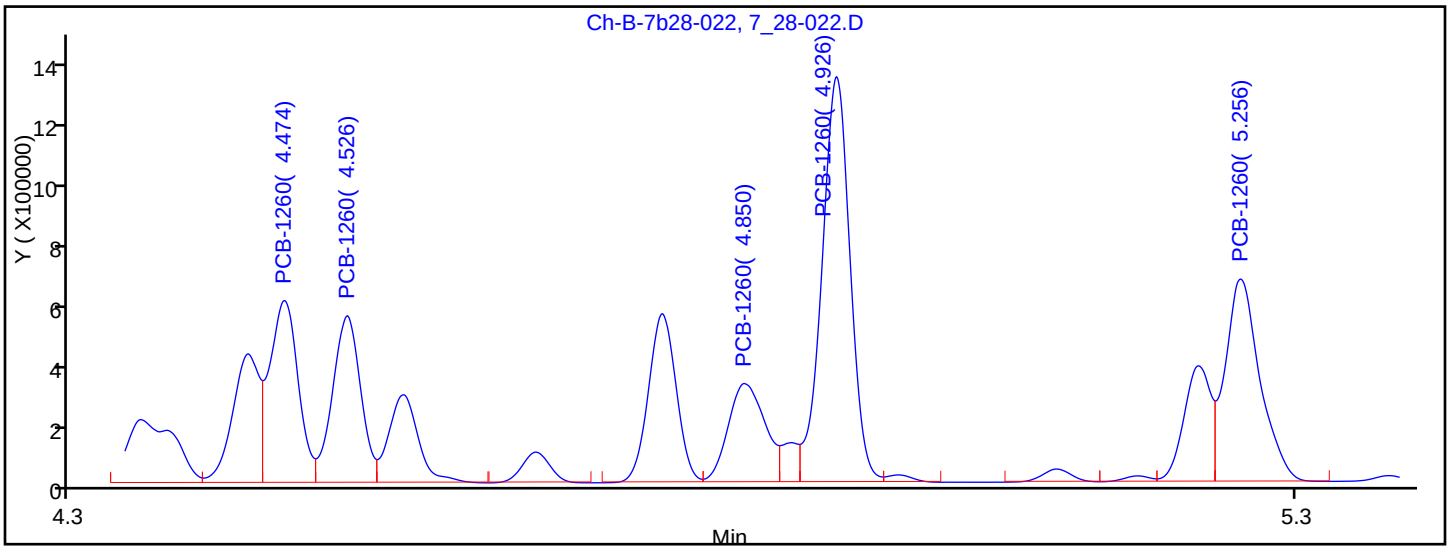
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 934165
4.783	Response = 844891
4.850	Response = 653626
4.926	Response = 2069392
5.256	Response = 1266604



Manual Integration Results

4.474	Response = 937560	M
4.526	Response = 846078	M
4.850	Response = 654832	M
4.926	Response = 2070270	M
5.256	Response = 1260909	M

Reviewer: owenj, 28-Mar-2017 15:38:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Mar-2017 13:32:29 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14162788	0.5000	0.5000	
2	1.050	1.050	0.000	25970868	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	190560	0.005000	0.005152	
2	1.629	1.629	0.000	314174	0.005000	0.005296	
						RPD = 2.77	
9 PCB-1016							M
1	2.679	2.681	-0.002	240440	0.2000	0.2113	
1	2.833	2.834	-0.001	146148	0.2000	0.2034	
1	3.038	3.038	0.000	477683	0.2000	0.2038	
1	3.124	3.126	-0.002	183983	0.2000	0.2049	
1	3.187	3.188	-0.001	124672	0.2000	0.2042	
		Average of Peak Amounts =				0.2055	
2	2.322	2.322	0.000	407072	0.2000	0.2144	M
2	2.630	2.631	-0.001	801927	0.2000	0.2095	M
2	2.740	2.741	-0.001	312839	0.2000	0.2140	M
2	2.832	2.833	0.000	208461	0.2000	0.2145	M
2	3.107	3.108	-0.001	357784	0.2000	0.2152	M
		Average of Peak Amounts =				0.2135	
						RPD = 3.82	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.922	-0.001	366134	0.2000	0.1984	
1	5.050	5.051	-0.001	209980	0.2000	0.2029	
1	5.242	5.243	0.000	198801	0.2000	0.2032	
1	5.447	5.449	-0.002	484581	0.2000	0.1990	
1	5.704	5.706	-0.002	236680	0.2000	0.2027	
		Average of Peak Amounts =				0.2013	
2	4.473	4.474	-0.001	388118	0.2000	0.2015	M
2	4.525	4.526	-0.001	355175	0.2000	0.2037	M
2	4.851	4.850	0.001	278936	0.2000	0.2064	M
2	4.925	4.926	-0.001	839381	0.2000	0.1962	M
2	5.255	5.256	-0.001	513815	0.2000	0.1978	M
		Average of Peak Amounts =				0.2011	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.001	114381	0.005000	0.005241	
2	6.309	6.310	-0.001	197094	0.005000	0.004970	
						RPD = 5.30	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00005 Amount Added: 1.00 Units: mL

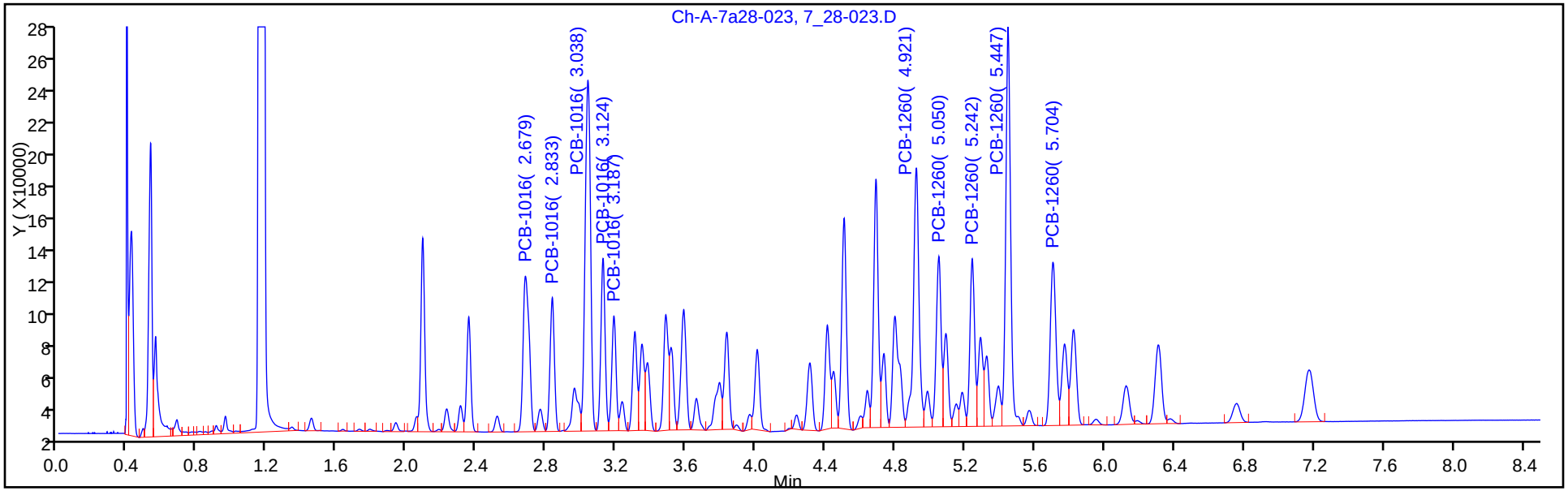
Report Date: 29-Mar-2017 10:53:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

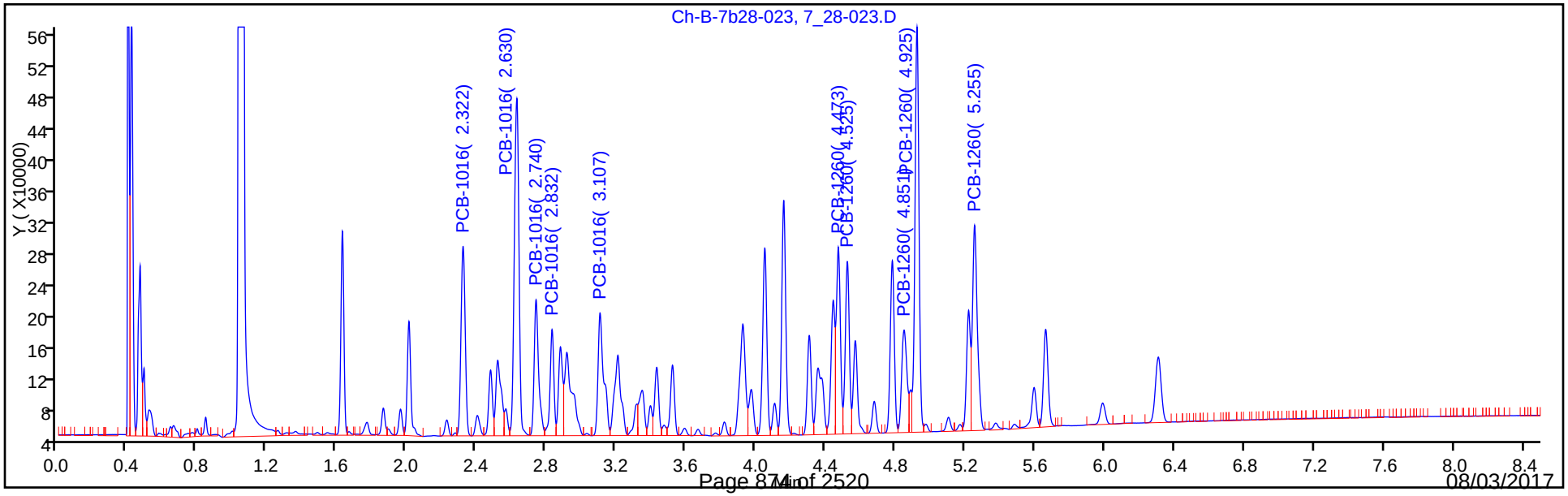
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date:	28-Mar-2017 13:32:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date: 28-Mar-2017 13:32:29 Instrument ID: HP6890-7

Lims ID: IC 4

Client ID:

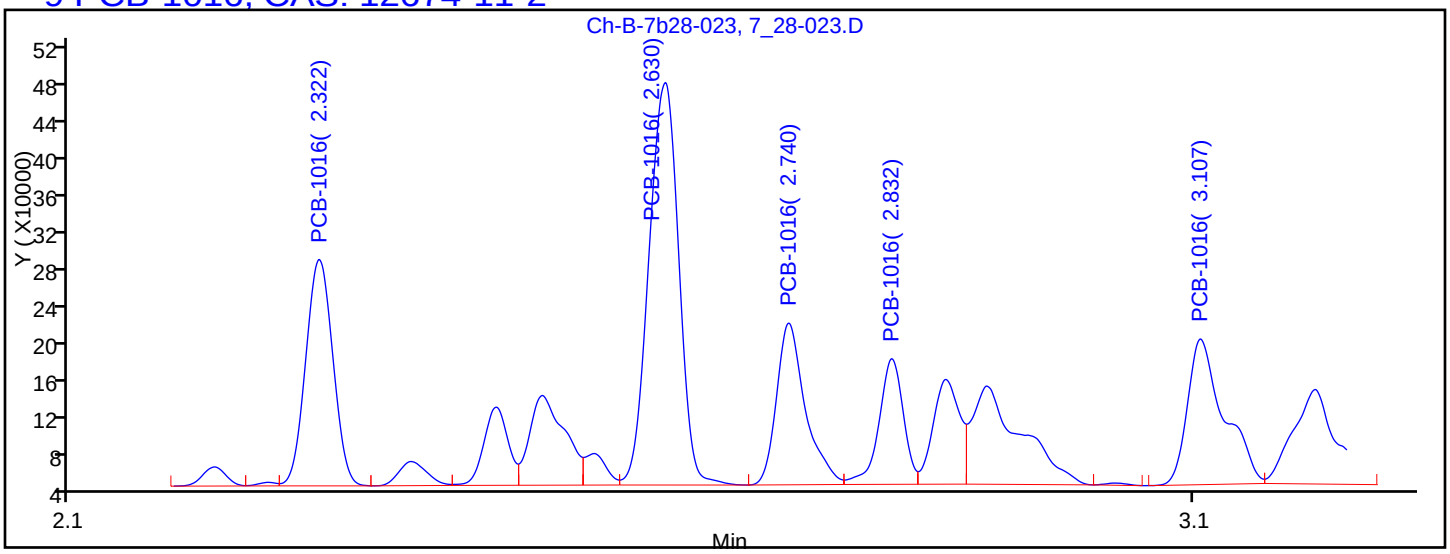
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

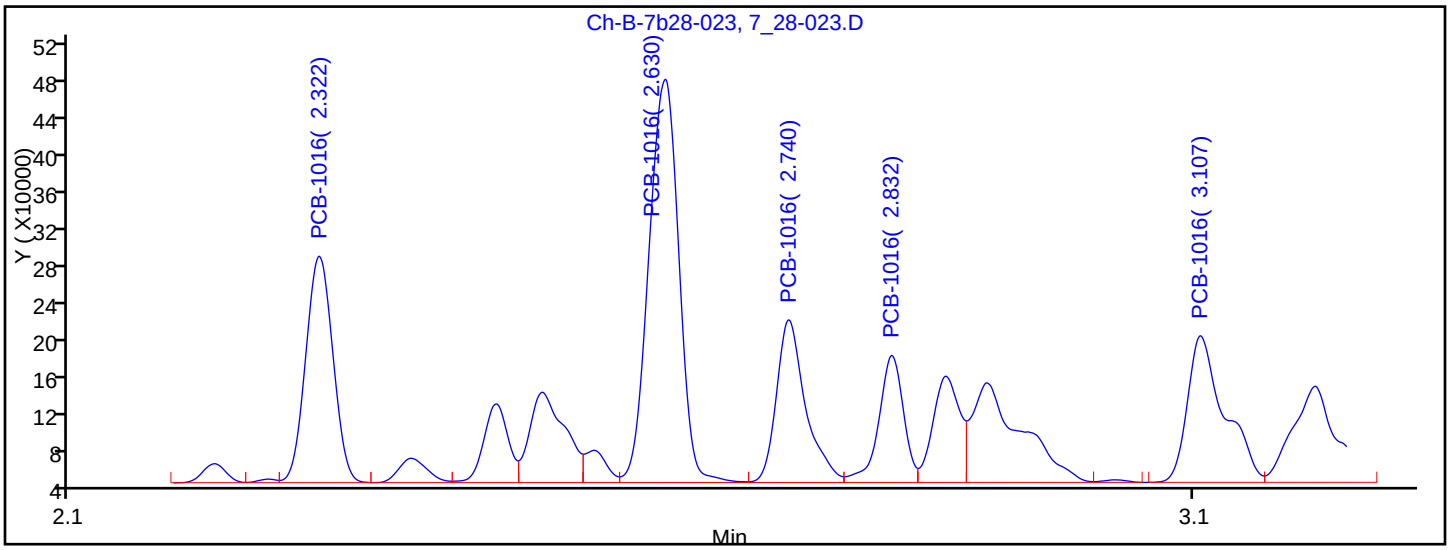
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 407180
2.630	Response = 796583
2.740	Response = 307654
2.832	Response = 202878
3.107	Response = 350998



Manual Integration Results

2.322	Response = 407072	M
2.630	Response = 801927	M
2.740	Response = 312839	M
2.832	Response = 208461	M
3.107	Response = 357784	M

Reviewer: owenj, 28-Mar-2017 15:38:51

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date: 28-Mar-2017 13:32:29 Instrument ID: HP6890-7

Lims ID: IC 4

Client ID:

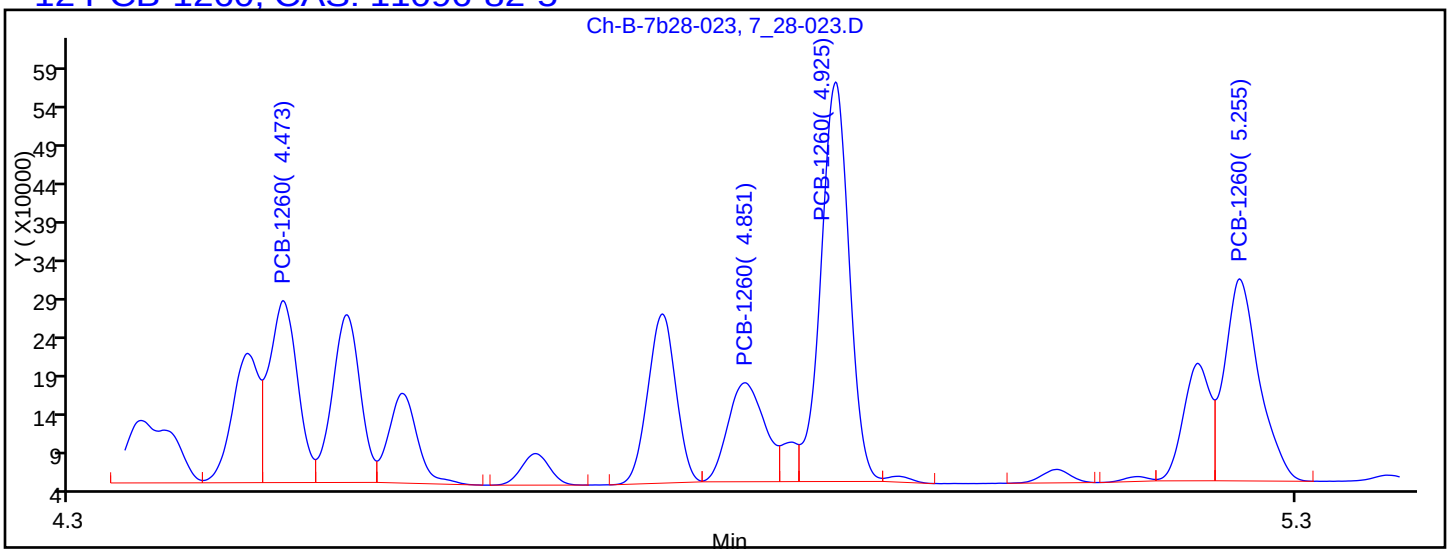
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

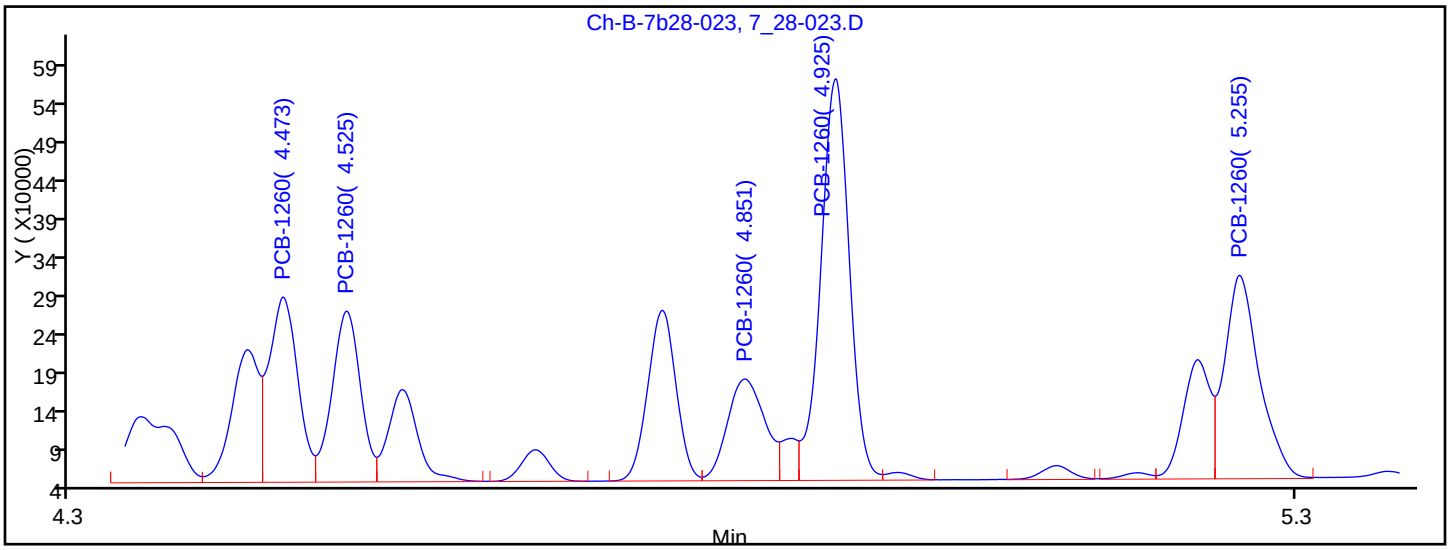
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.473	Response = 376487
4.783	Response = 345644
4.851	Response = 265575
4.925	Response = 825538
5.255	Response = 505120



Manual Integration Results

4.473	Response = 388118	M
4.525	Response = 355175	M
4.851	Response = 278936	M
4.925	Response = 839381	M
5.255	Response = 513815	M

Reviewer: owenj, 28-Mar-2017 15:46:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 13:48:24 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:51 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:15

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14095092	0.5000	0.5000	
2	1.051	1.050	0.001	25666794	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	103225	0.002500	0.002588	
2	1.629	1.629	0.000	165536	0.002500	0.002747	
						RPD = 5.96	
9 PCB-1016							
1	2.680	2.681	-0.001	131166	0.1000	0.1062	
1	2.833	2.834	-0.002	79759	0.1000	0.0986	
1	3.038	3.038	0.000	252373	0.1000	0.1042	
1	3.123	3.126	-0.003	101002	0.1000	0.1056	
1	3.187	3.188	-0.001	68213	0.1000	0.1074	
		Average of Peak Amounts =				0.1044	
2	2.322	2.322	0.000	221184	0.1000	0.1056	
2	2.629	2.631	-0.002	427950	0.1000	0.1075	
2	2.740	2.741	-0.001	168178	0.1000	0.1092	
2	2.832	2.833	0.000	111933	0.1000	0.1110	
2	3.108	3.108	0.000	191892	0.1000	0.1117	
		Average of Peak Amounts =				0.1090	
						RPD = 4.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.922	-0.002	195331	0.1000	0.1015	
1	5.048	5.051	-0.003	113127	0.1000	0.1051	
1	5.242	5.243	0.000	106177	0.1000	0.1041	
1	5.447	5.449	-0.002	248968	0.1000	0.0992	
1	5.705	5.706	-0.001	125509	0.1000	0.1027	
		Average of Peak Amounts =				0.1025	
2	4.474	4.474	0.000	203046	0.1000	0.1018	M
2	4.525	4.526	-0.001	186861	0.1000	0.1048	M
2	4.850	4.850	0.000	145043	0.1000	0.1059	M
2	4.924	4.926	-0.002	425544	0.1000	0.1003	M
2	5.255	5.256	-0.001	256997	0.1000	0.0992	M
		Average of Peak Amounts =				0.1024	
						RPD = 0.11	
$ 15 DCB Decachlorobiphenyl							
1	7.175	7.173	0.003	61259	0.002500	0.002505	
2	6.309	6.310	-0.001	105526	0.002500	0.002523	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00006 Amount Added: 1.00 Units: mL

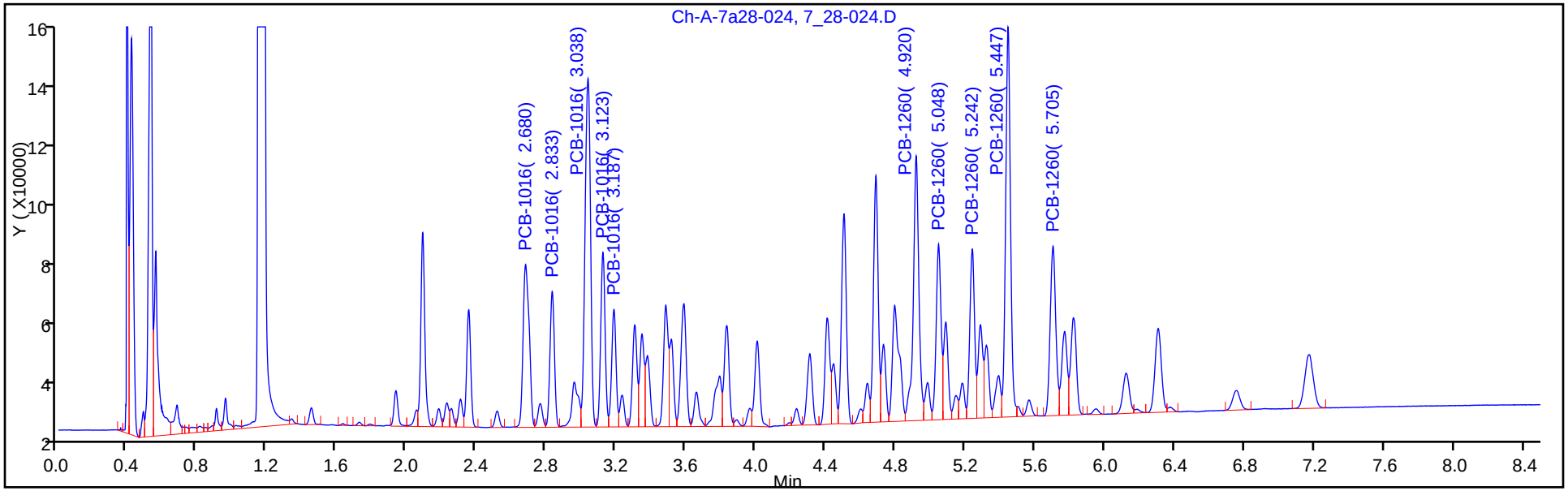
Report Date: 29-Mar-2017 10:53:52 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

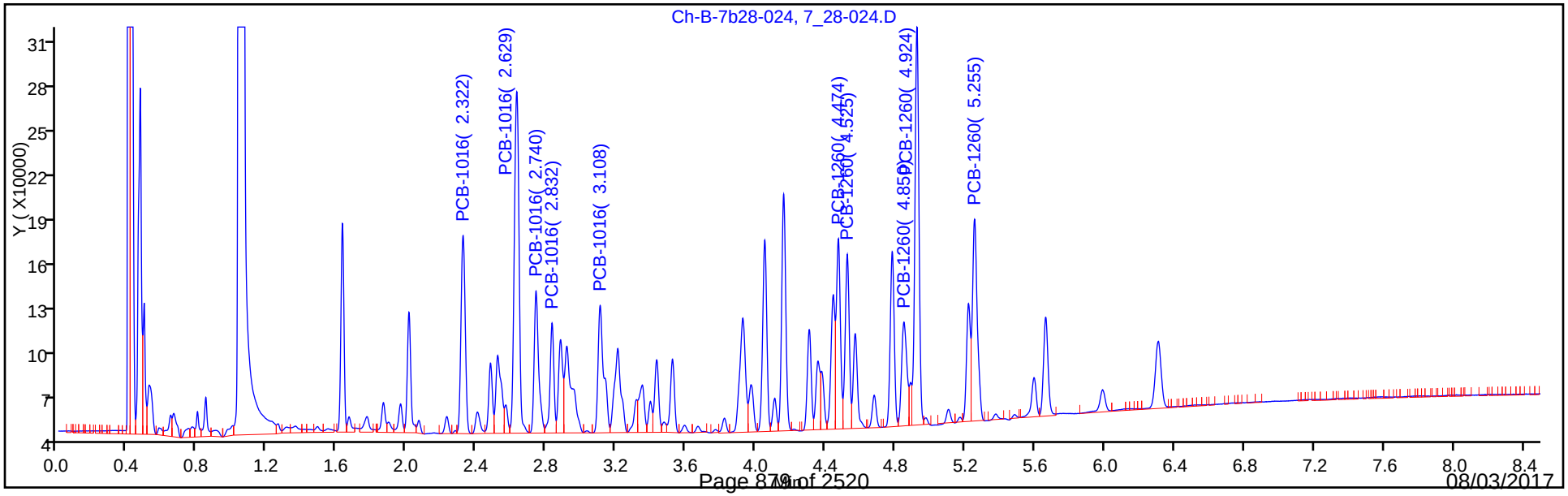
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D

Injection Date:	28-Mar-2017 13:48:24	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:52 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D

Injection Date: 28-Mar-2017 13:48:24 Instrument ID: HP6890-7

Lims ID: IC 3

Client ID:

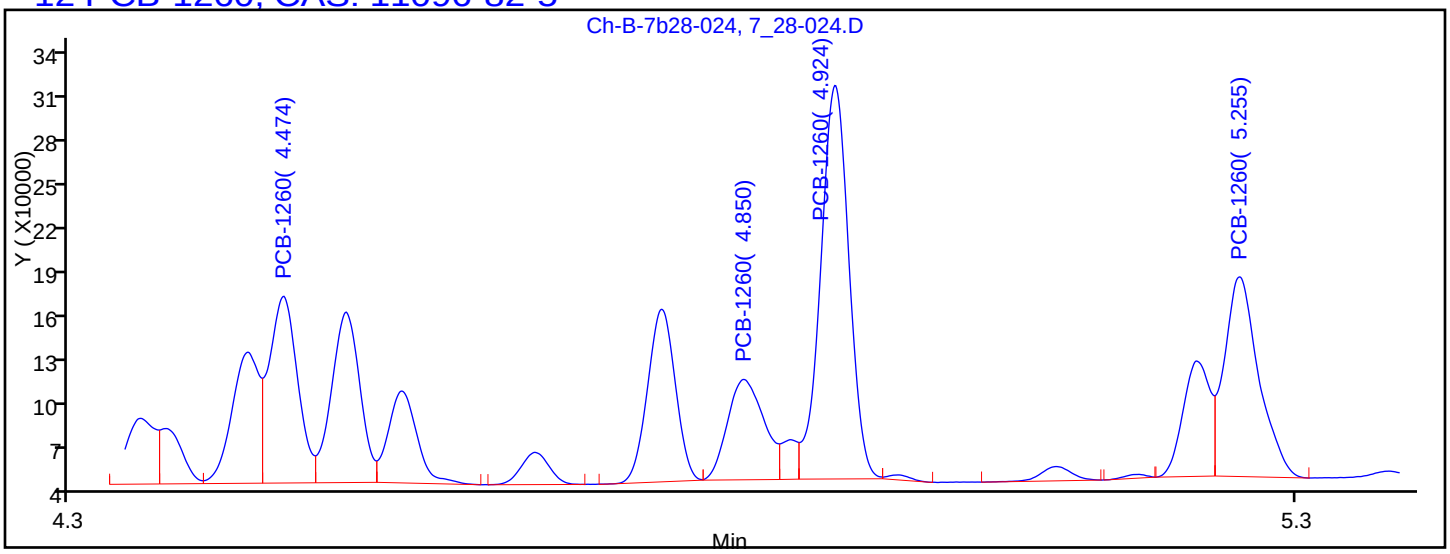
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

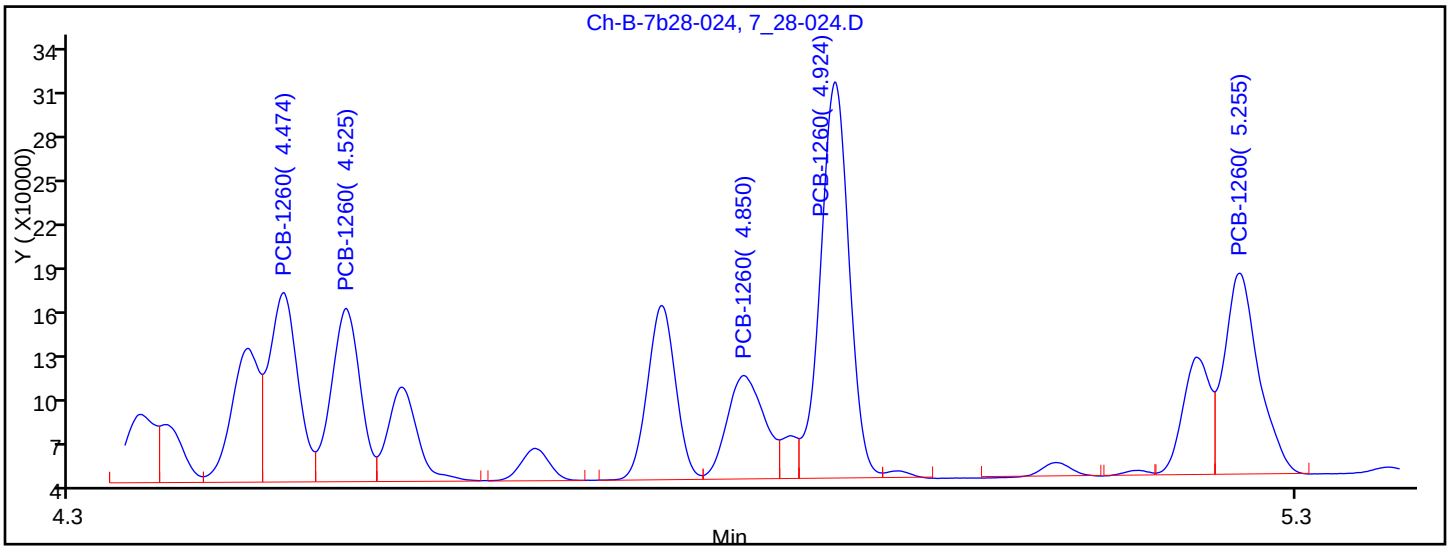
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 197840
4.783	Response = 178698
4.850	Response = 137219
4.924	Response = 417276
5.255	Response = 254451



Manual Integration Results

4.474	Response = 203046	M
4.525	Response = 186861	M
4.850	Response = 145043	M
4.924	Response = 425544	M
5.255	Response = 256997	M

Reviewer: owenj, 28-Mar-2017 15:45:50

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 14:04:23 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:55 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 14:59:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14205944	0.5000	0.5000	
2	1.051	1.050	0.001	25850188	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.092	-0.001	54964	0.001250	0.001144	M
2	1.630	1.629	0.001	88309	0.001250	0.001378	M
						RPD = 18.55	
9 PCB-1016							M
1	2.679	2.681	-0.002	70180	0.0500	0.0464	M
1	2.833	2.834	-0.001	42348	0.0500	0.0384	M
1	3.039	3.038	0.001	131470	0.0500	0.0497	M
1	3.123	3.126	-0.003	54848	0.0500	0.0493	M
1	3.188	3.188	0.000	35957	0.0500	0.0510	M
		Average of Peak Amounts =				0.0470	
2	2.322	2.322	0.000	119218	0.0500	0.0438	M
2	2.630	2.631	-0.001	231069	0.0500	0.0519	M
2	2.741	2.741	0.000	89547	0.0500	0.0503	M
2	2.833	2.833	0.000	58550	0.0500	0.0519	M
2	3.108	3.108	0.000	99815	0.0500	0.0523	M
		Average of Peak Amounts =				0.0500	
						RPD = 6.32	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	103183	0.0500	0.0482	
1	5.049	5.051	-0.002	59743	0.0500	0.0501	
1	5.243	5.243	0.000	56806	0.0500	0.0503	
1	5.448	5.449	-0.001	133445	0.0500	0.0493	
1	5.706	5.706	0.000	67285	0.0500	0.0492	
		Average of Peak Amounts =				0.0494	
2	4.474	4.474	0.000	107037	0.0500	0.0484	M
2	4.526	4.526	0.000	97606	0.0500	0.0506	M
2	4.850	4.850	0.000	75849	0.0500	0.0523	M
2	4.926	4.926	0.000	218116	0.0500	0.0507	M
2	5.255	5.256	-0.001	134029	0.0500	0.0505	M
		Average of Peak Amounts =				0.0505	
						RPD = 2.12	
$ 15 DCB Decachlorobiphenyl							
1	7.174	7.173	0.002	32445	0.001250	0.000992	
2	6.310	6.310	0.000	57089	0.001250	0.001184	
						RPD = 17.63	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00005 Amount Added: 1.00 Units: mL

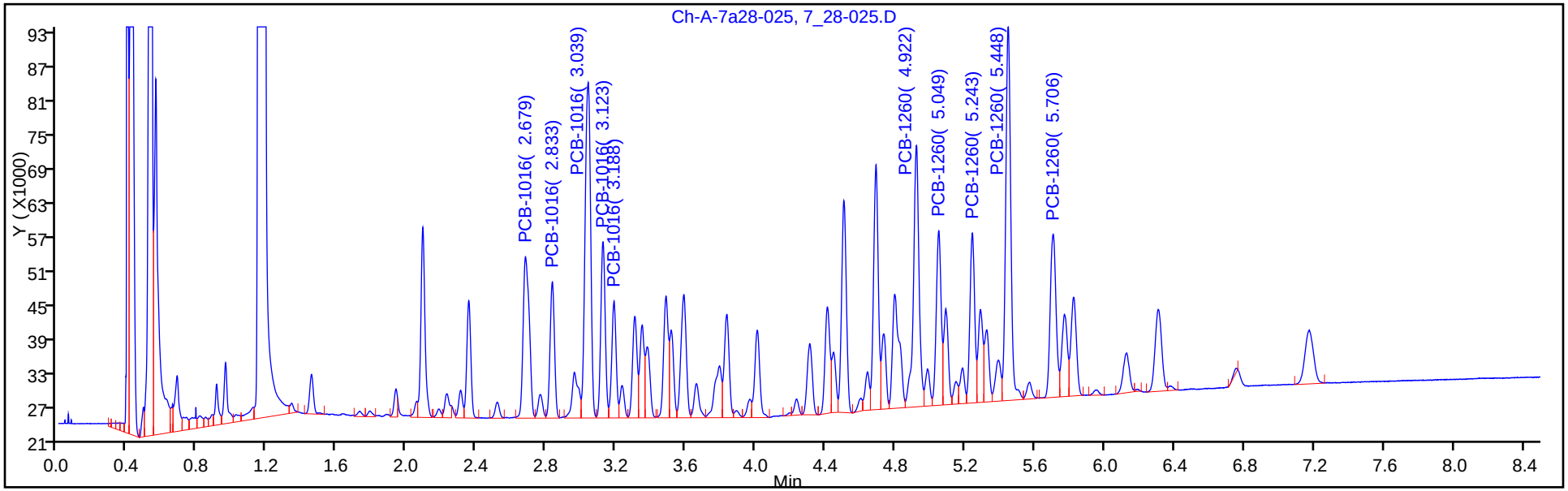
Report Date: 29-Mar-2017 10:53:56 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

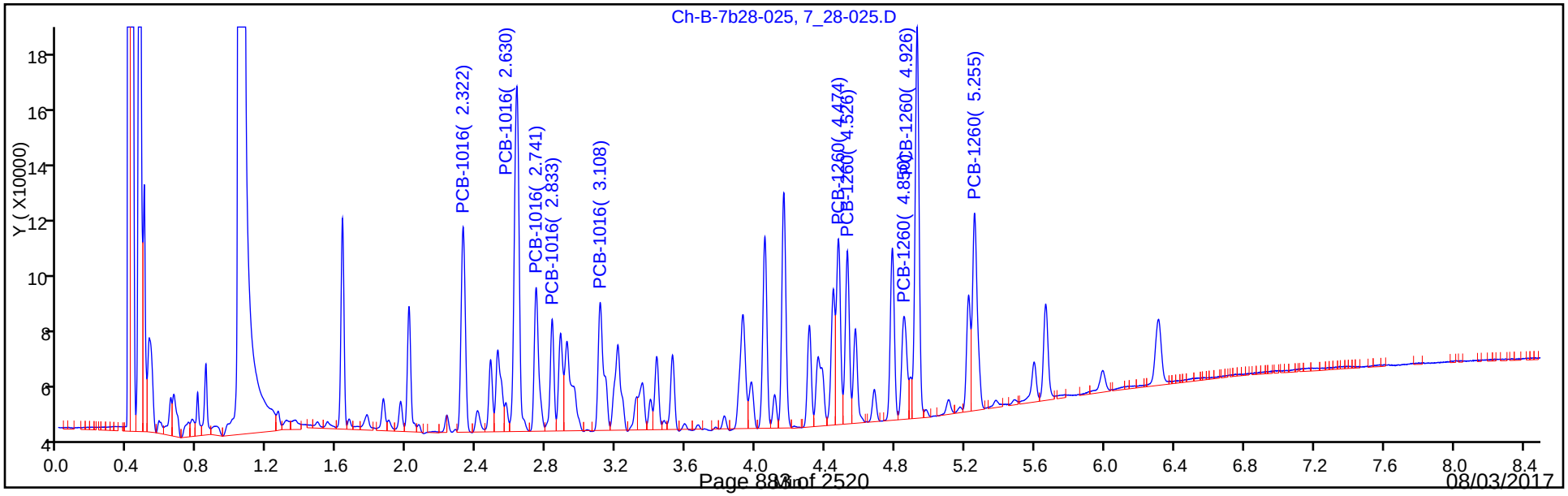
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date:	28-Mar-2017 14:04:23	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

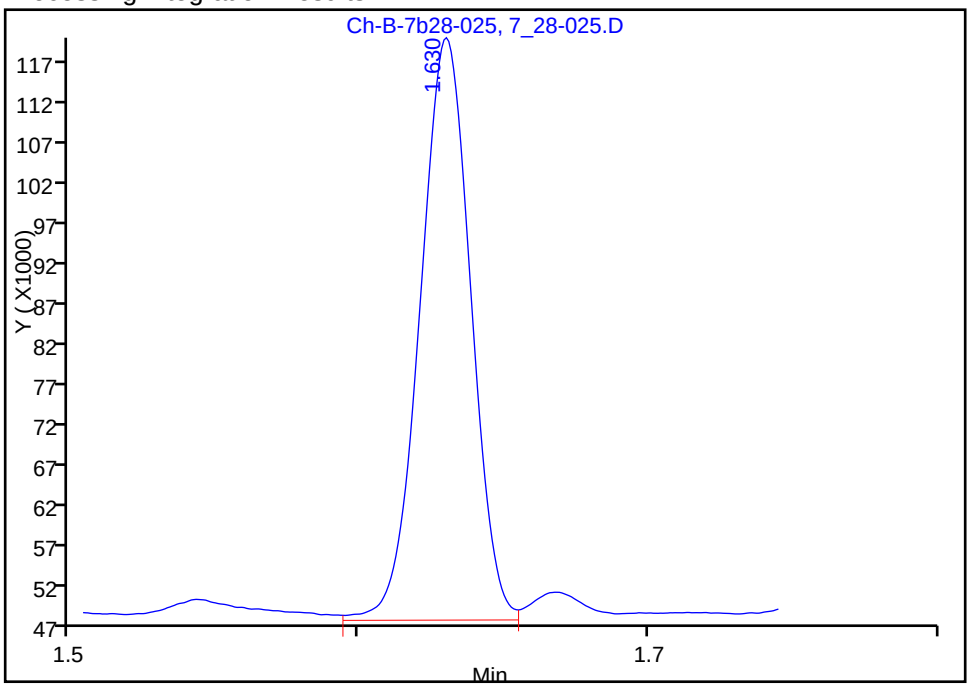
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

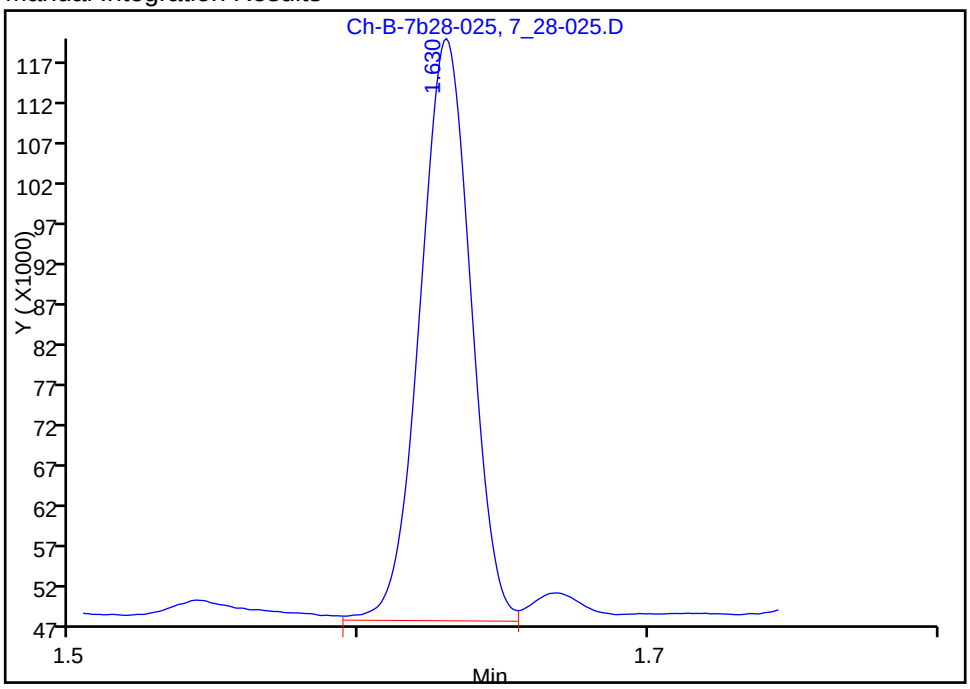
Processing Integration Results

RT: 1.63
Area: 88411
Amount: 0.001437
Amount Units: ng/uL



Manual Integration Results

RT: 1.63
Area: 88309
Amount: 0.001378
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:40:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:56 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

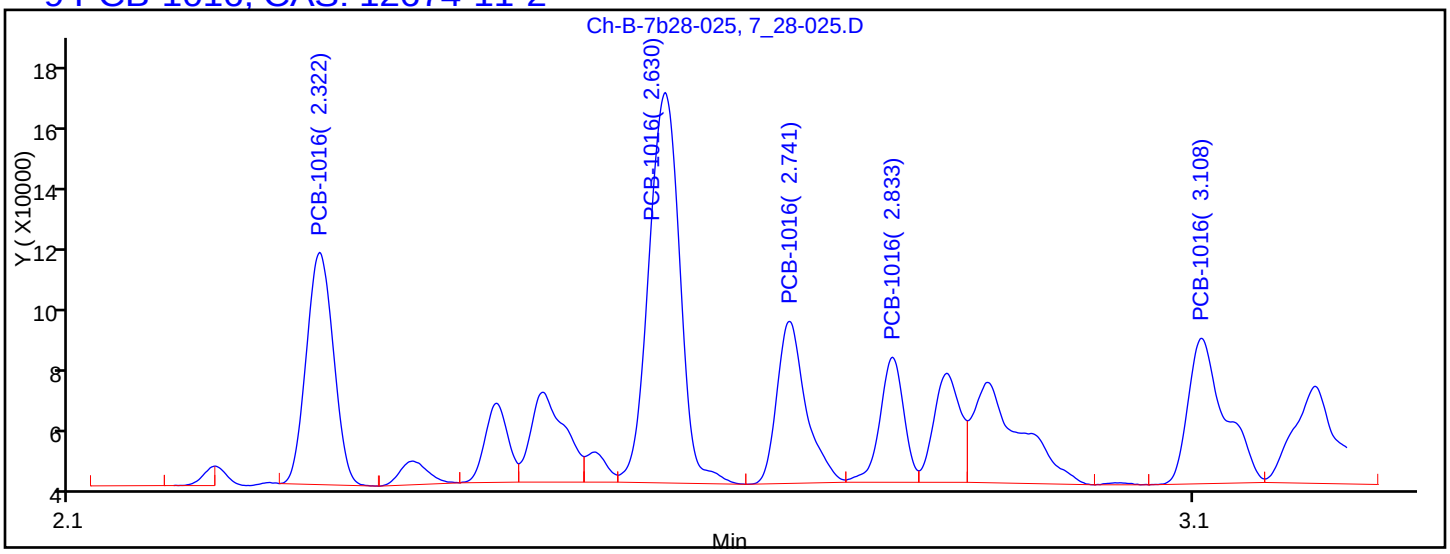
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

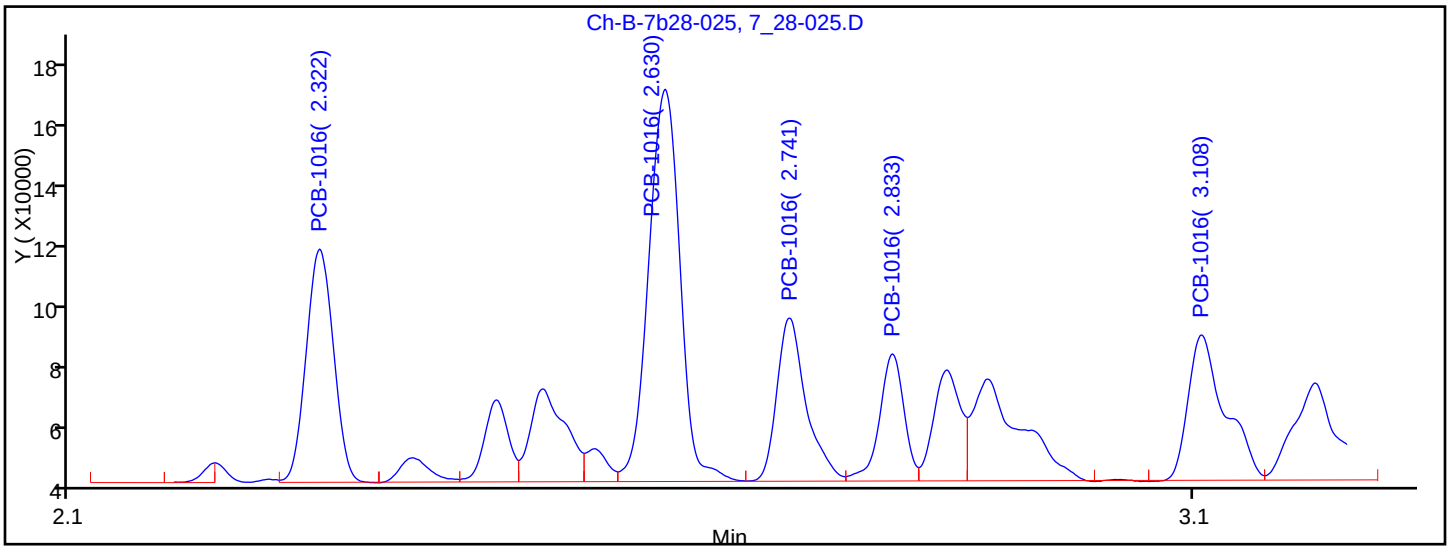
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 118084
2.630	Response = 227918
2.741	Response = 87580
2.833	Response = 56162
3.108	Response = 99973



Manual Integration Results

2.322	Response = 119218	M
2.630	Response = 231069	M
2.741	Response = 89547	M
2.833	Response = 58550	M
3.108	Response = 99815	M

Reviewer: owenj, 28-Mar-2017 15:40:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:56 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

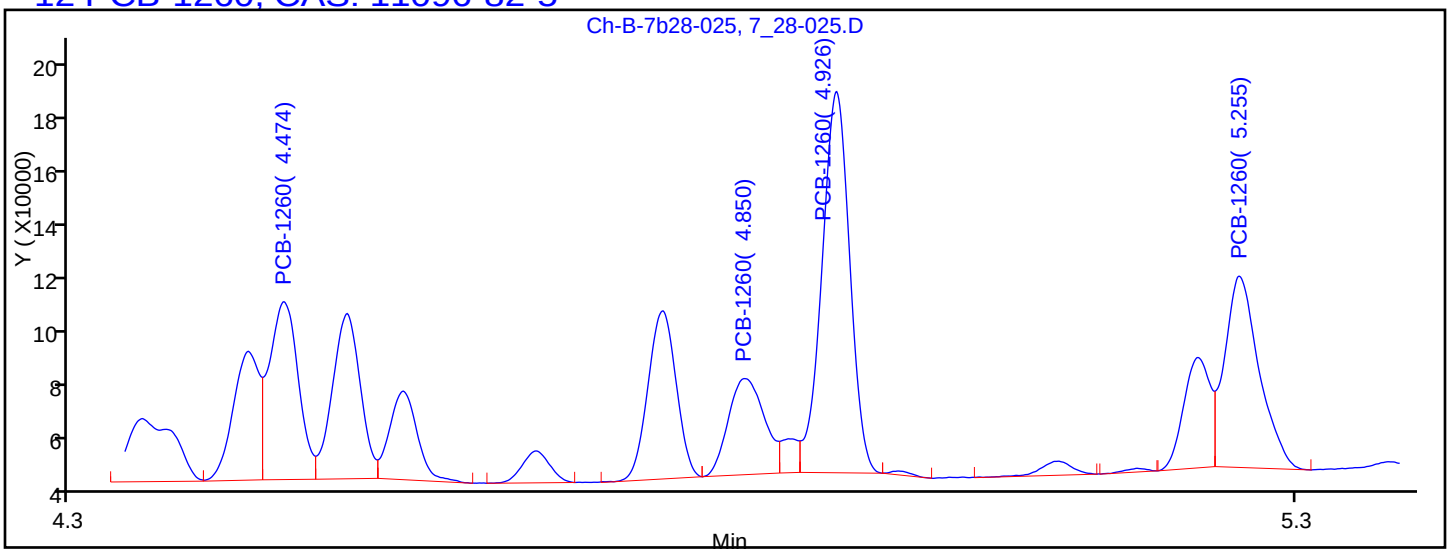
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

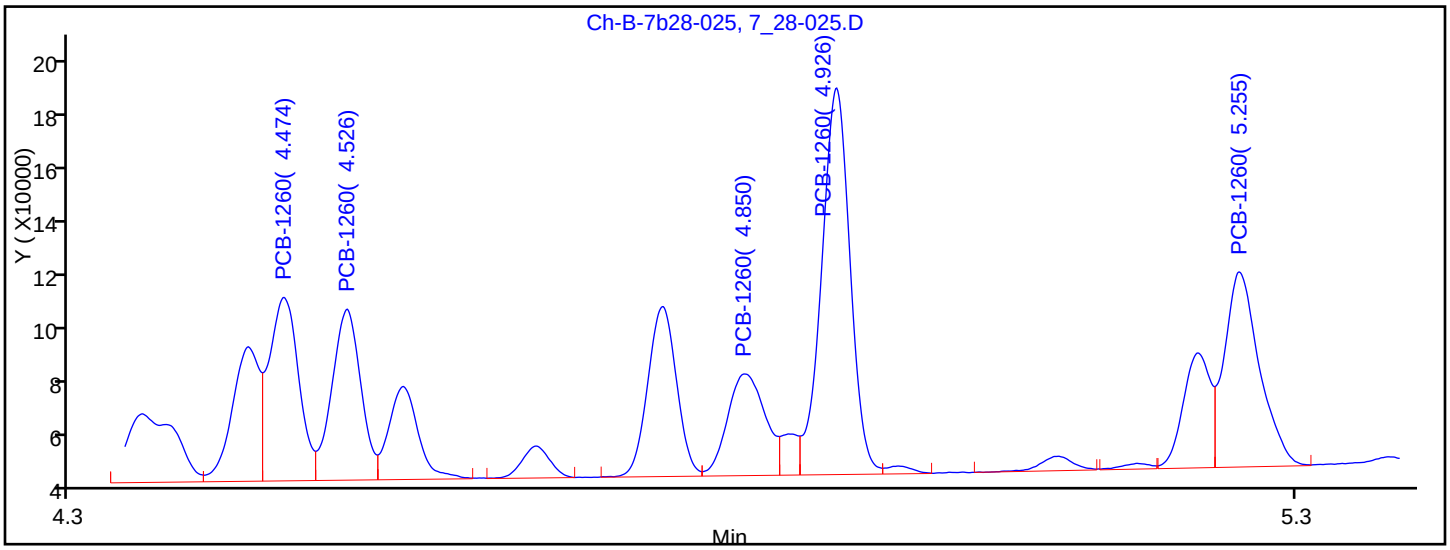
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 101360
4.783	Response = 93054
4.850	Response = 68237
4.926	Response = 208736
5.255	Response = 128774



Manual Integration Results

4.474	Response = 107037	M
4.526	Response = 97606	M
4.850	Response = 75849	M
4.926	Response = 218116	M
5.255	Response = 134029	M

Reviewer: owenj, 28-Mar-2017 15:45:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 14:20:25 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:06:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.166	0.000	13792920	0.5000	0.5000	
2	1.049	1.049	0.000	24913854	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.092	2.092	0.000	32243	0.000500	0.000504	
2	1.628	1.628	0.000	29453	0.000500	0.000370	M
						RPD = 30.68	
9 PCB-1016							M
1	2.678	2.678	0.000	40090	0.0200	0.0185	M
1	2.833	2.833	0.000	32281	0.0200	0.0240	M
1	3.038	3.038	0.000	59419	0.0200	0.0186	M
1	3.124	3.124	0.000	28193	0.0200	0.0184	M
1	3.187	3.187	0.000	16055	0.0200	0.0176	M
		Average of Peak Amounts =				0.0194	
2	2.320	2.320	0.000	75232	0.0200	0.0192	M
2	2.629	2.629	0.000	100551	0.0200	0.0166	M
2	2.741	2.741	0.000	42091	0.0200	0.0164	M
2	2.832	2.832	0.000	24350	0.0200	0.0155	M
2	3.108	3.108	0.000	39819	0.0200	0.0151	M
		Average of Peak Amounts =				0.0166	
						RPD = 15.66	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.920	0.000	53350	0.0200	0.0208	M
1	5.050	5.050	0.000	28146	0.0200	0.0190	M
1	5.243	5.243	0.000	26897	0.0200	0.0191	M
1	5.448	5.448	0.000	64230	0.0200	0.0207	M
1	5.705	5.705	0.000	33766	0.0200	0.0199	M
		Average of Peak Amounts =				0.0199	
2	4.460	4.460	0.000	53484	0.0200	0.0201	M
2	4.525	4.525	0.000	42671	0.0200	0.0186	M
2	4.850	4.850	0.000	29246	0.0200	0.0176	M
2	4.925	4.925	0.000	87081	0.0200	0.0206	M
2	5.256	5.256	0.000	55612	0.0200	0.0207	M
		Average of Peak Amounts =				0.0195	
						RPD = 1.86	
$ 15 DCB Decachlorobiphenyl							M
1	7.180	7.180	0.000	23559	0.000500	0.000570	M
2	6.309	6.309	0.000	31563	0.000500	0.000522	M
						RPD = 8.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00005 Amount Added: 1.00 Units: mL

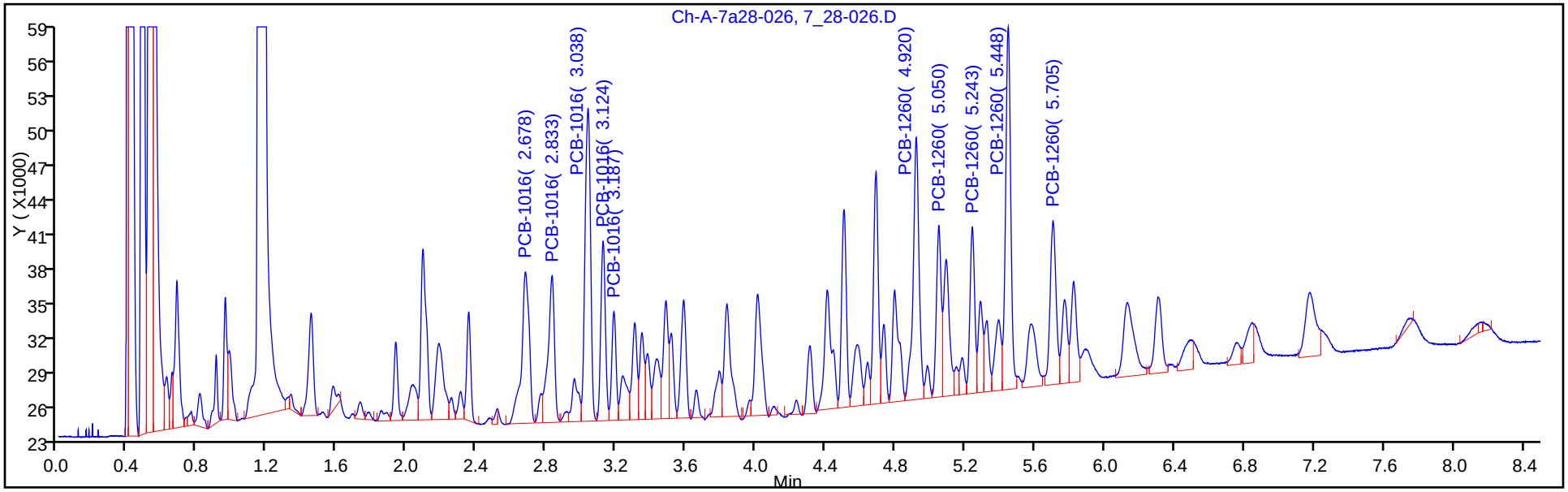
Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

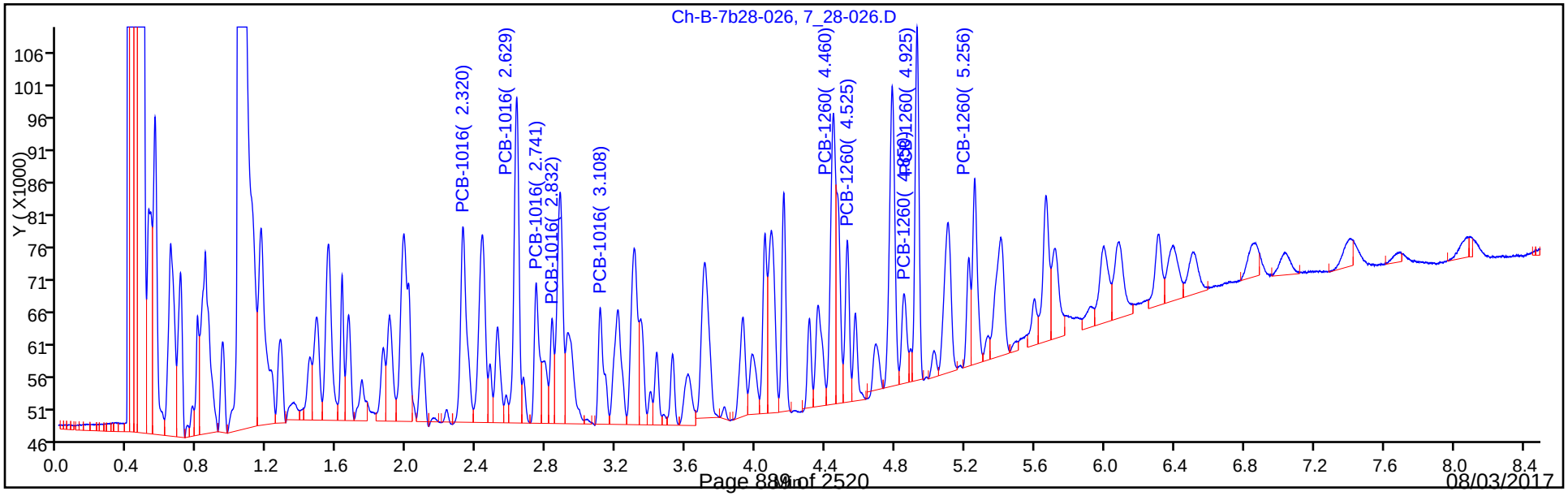
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date:	28-Mar-2017 14:20:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

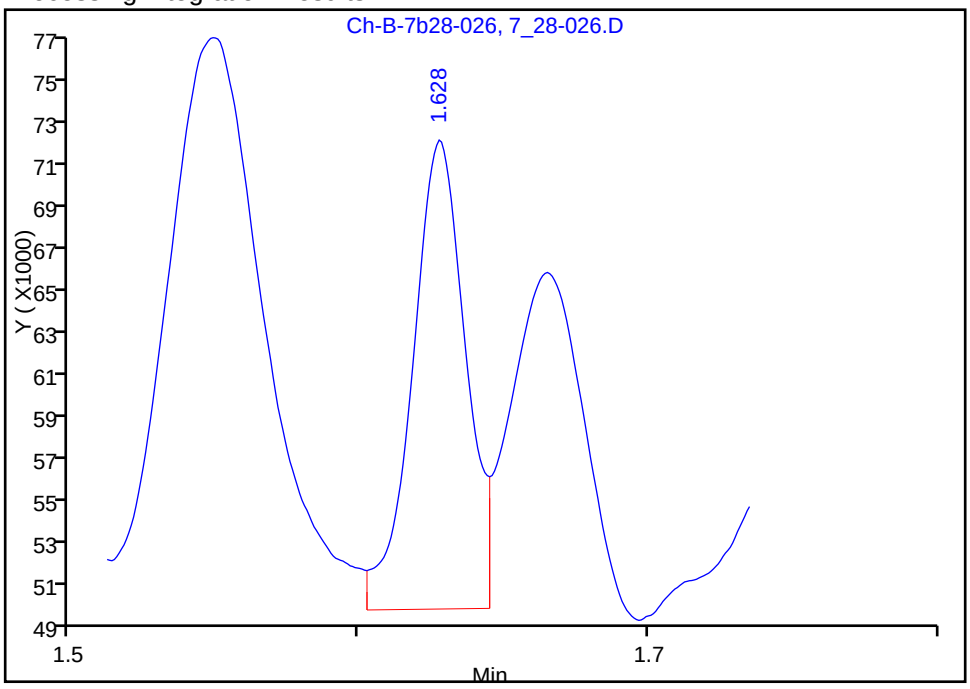
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

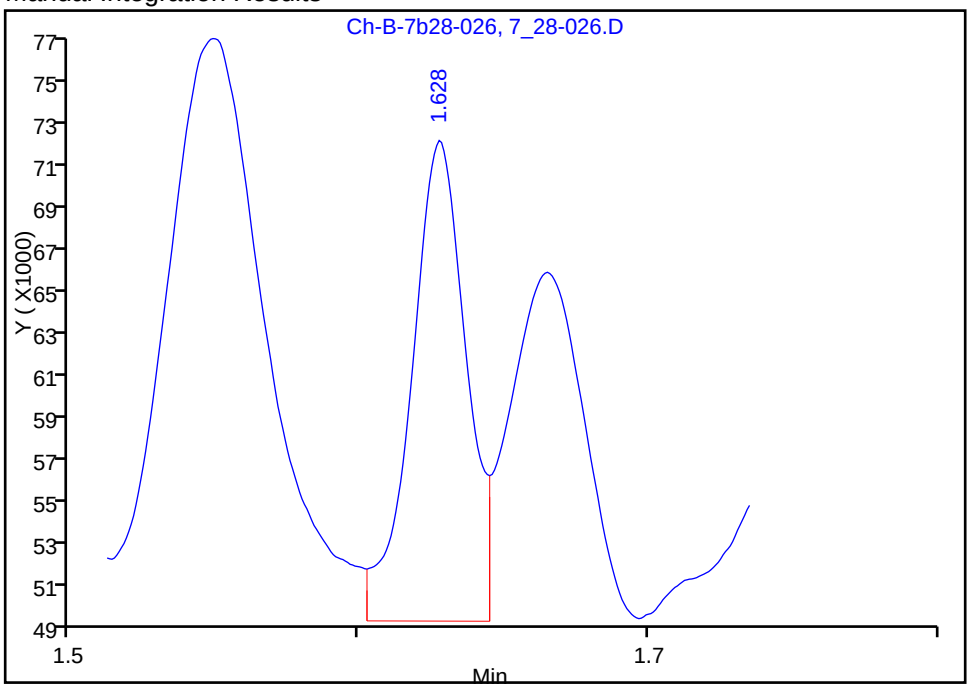
Processing Integration Results

RT: 1.63
Area: 27834
Amount: 0.000469
Amount Units: ng/uL



Manual Integration Results

RT: 1.63
Area: 29453
Amount: 0.000370
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:40:51
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

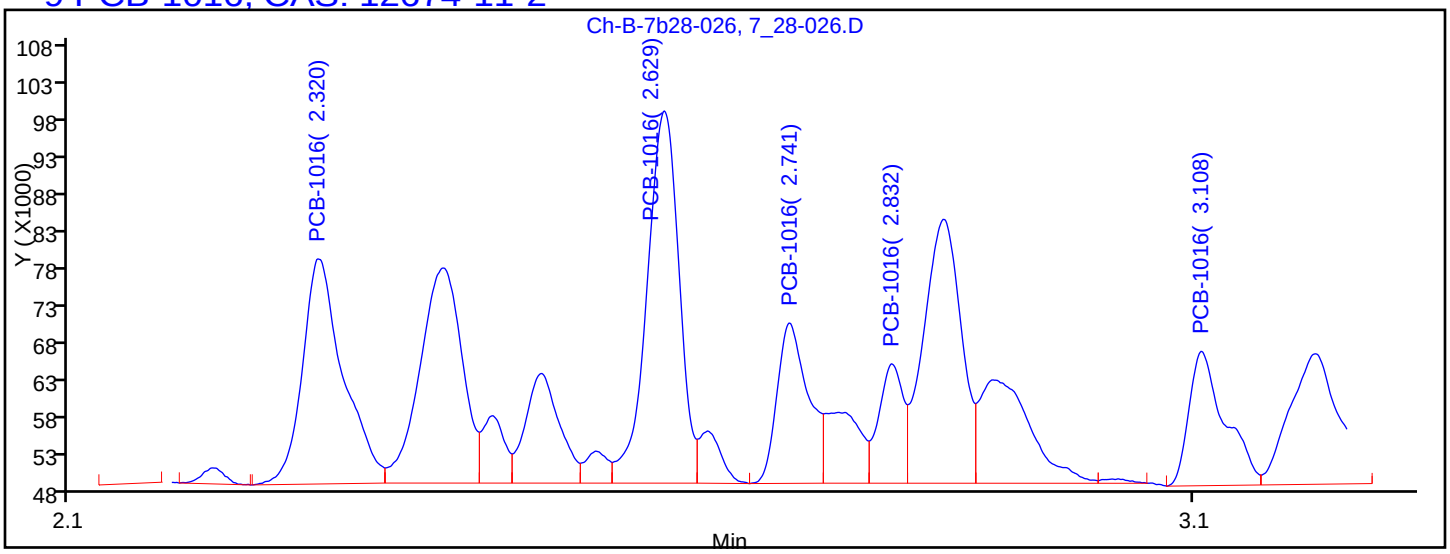
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

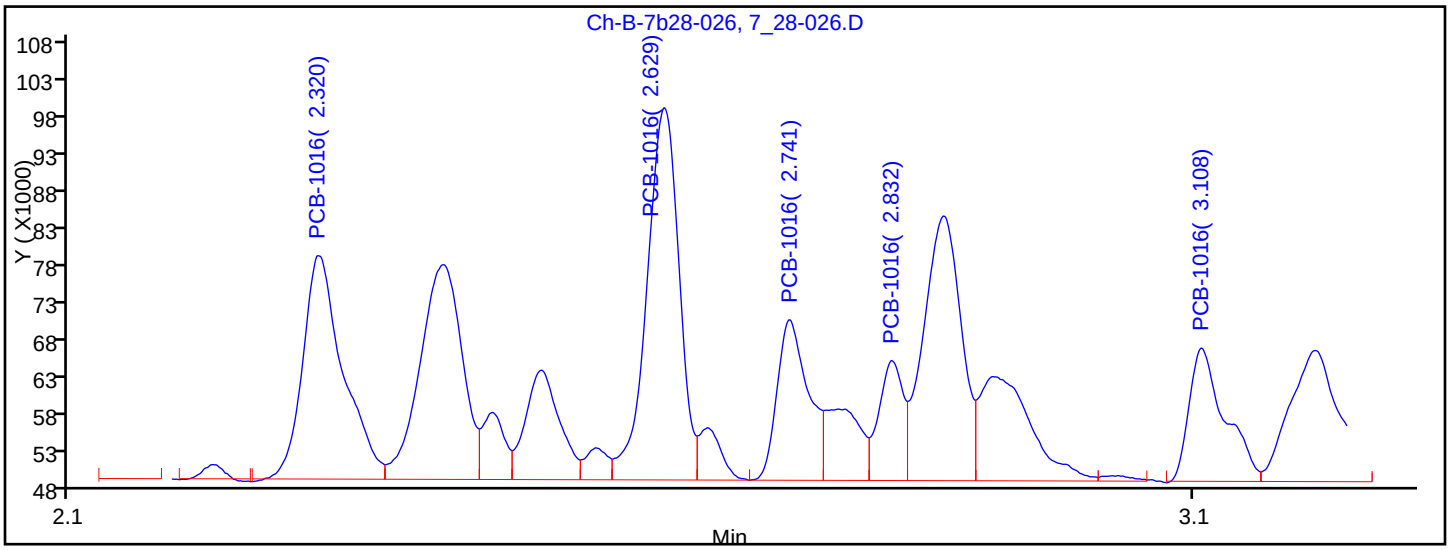
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.320	Response = 76804
2.629	Response = 100501
2.741	Response = 42000
2.832	Response = 24183
3.108	Response = 40448



Manual Integration Results

2.320	Response = 75232	M
2.629	Response = 100551	M
2.741	Response = 42091	M
2.832	Response = 24350	M
3.108	Response = 39819	M

Reviewer: owenj, 28-Mar-2017 15:40:51

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

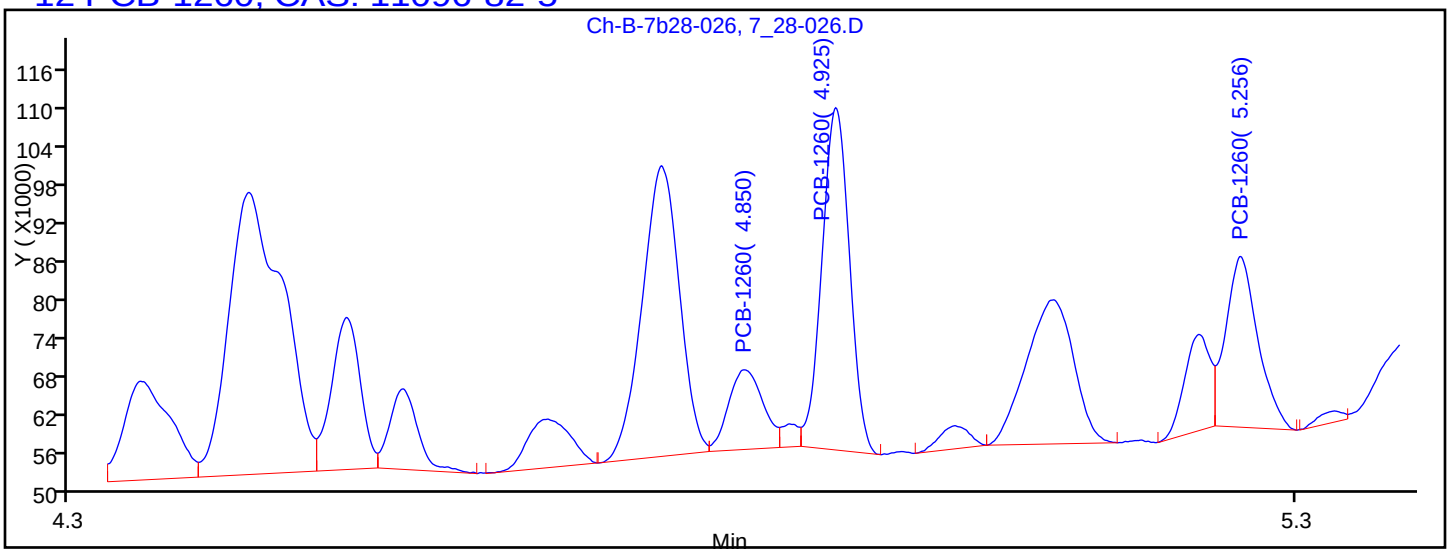
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

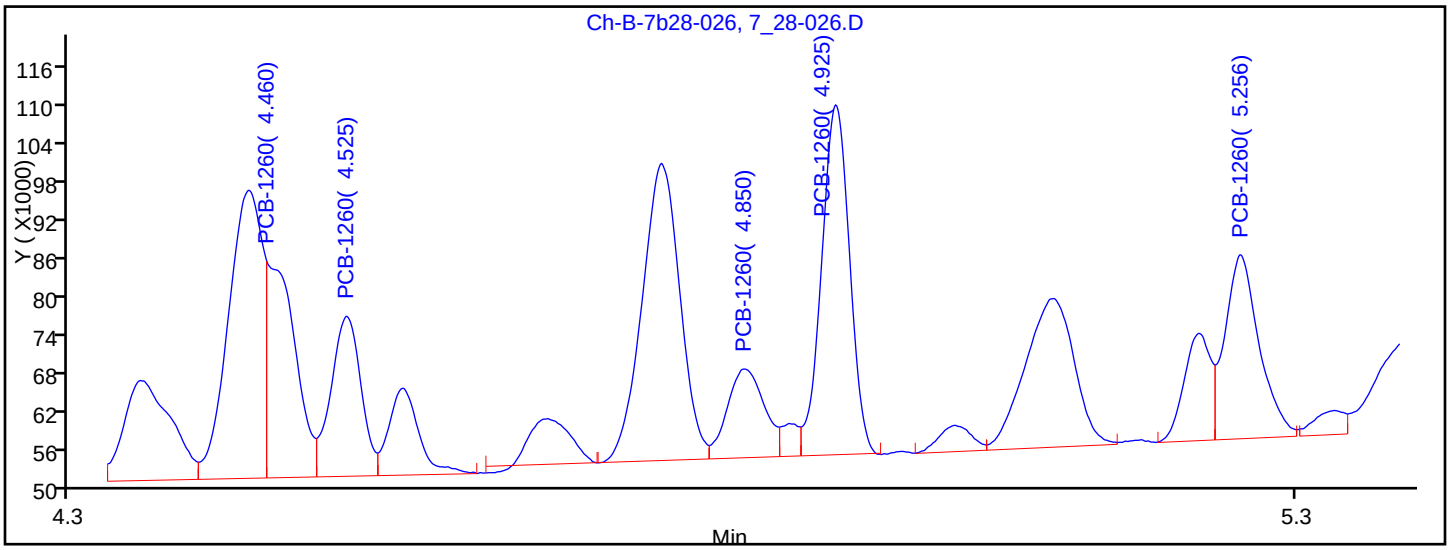
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.446	Response = 137214
4.783	Response = 96810
4.850	Response = 24679
4.925	Response = 84505
5.256	Response = 49098



Manual Integration Results

4.460	Response = 53484	M
4.525	Response = 42671	M
4.850	Response = 29246	M
4.925	Response = 87081	M
5.256	Response = 55612	M

Reviewer: owenj, 28-Mar-2017 15:40:45

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

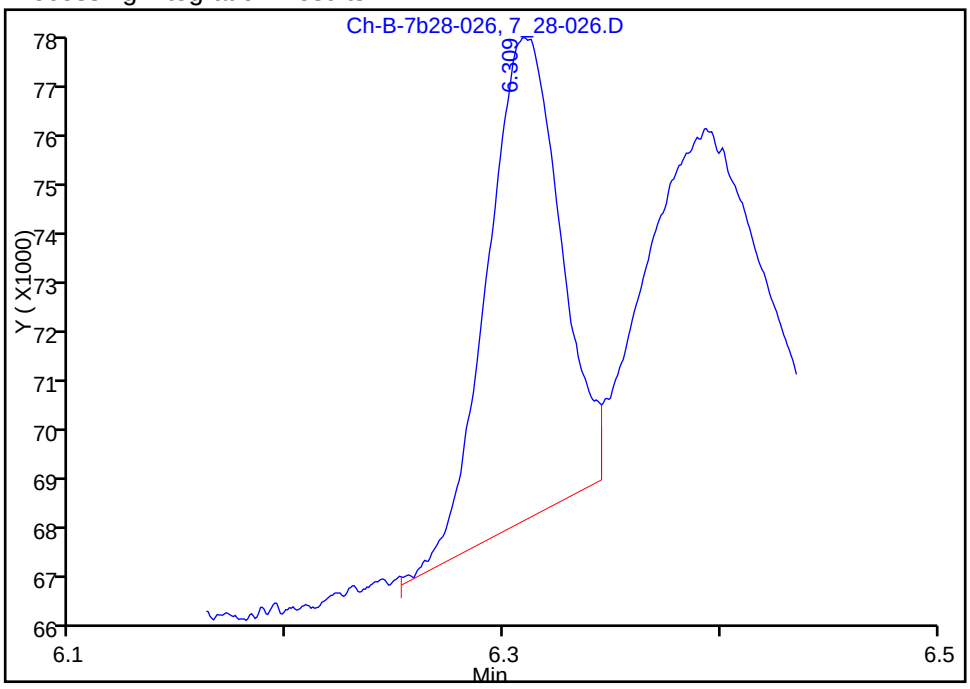
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

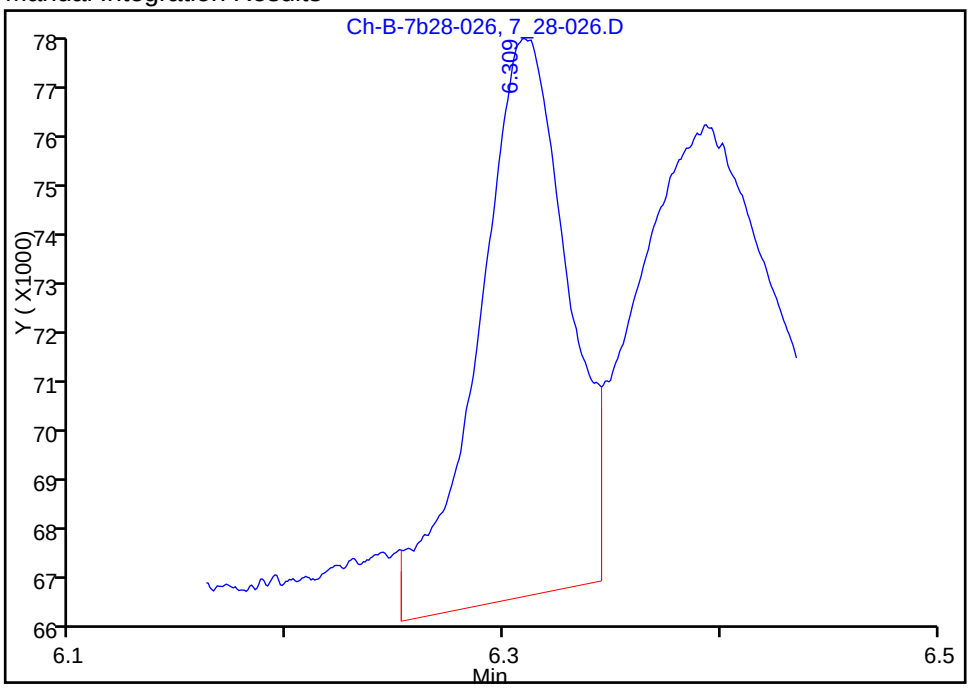
Processing Integration Results

RT: 6.31
Area: 21365
Amount: 0.000413
Amount Units: ng/uL



Manual Integration Results

RT: 6.31
Area: 31563
Amount: 0.000522
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:40:45
Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30042

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	0.0131	0.0076	0.0067			Lin1	0.0001	0.0068							0.9980		0.9900
PCB-1221 Peak 2	0.0177	0.0121	0.0108			Lin1	0.0001	0.0109							0.9980		0.9900
PCB-1221 Peak 3	0.0119	0.0075	0.0065			Lin1	0.0001	0.0066							0.9970		0.9900
PCB-1221 Peak 4	0.0392	0.0270	0.0241			Lin1	0.0003	0.0244							0.9980		0.9900
PCB-1254 Peak 1	0.0736	0.0524	0.0512			Lin1	0.0005	0.0510							1.0000		0.9900
PCB-1254 Peak 2	0.0477	0.0340	0.0336			Lin1	0.0003	0.0335							1.0000		0.9900
PCB-1254 Peak 3	0.0823	0.0618	0.0608			Lin1	0.0004	0.0607							1.0000		0.9900
PCB-1254 Peak 4	0.0829	0.0623	0.0618			Lin1	0.0004	0.0615							1.0000		0.9900
PCB-1254 Peak 5	0.0701	0.0525	0.0521			Lin1	0.0004	0.0519							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30042

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	7207	109077	382278			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	9757	173389	611505			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	6541	107292	367613			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	21621	386057	1369065			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	40540	749512	2903204			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	26297	486485	1907381			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Lin1	45353	884788	3451272			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Lin1	45692	891455	3503699			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	38628	751302	2953701			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 15:56:09 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:40 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:31:20

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14183474	0.5000	0.5000	
2	1.051	1.051	0.000	24751816	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.633	1.632	0.000	382278	2.00	1.96	a
1	2.229	2.230	-0.001	611505	2.00	1.96	a
1	2.307	2.307	0.000	367613	2.00	1.95	a
1	2.355	2.355	0.000	1369065	2.00	1.96	a
		Average of Peak Amounts =				1.96	
2	1.362	1.360	0.002	645413	2.00	1.94	a
2	1.865	1.863	0.002	1035449	2.00	1.96	a
2	1.963	1.963	0.000	628981	2.00	1.96	a
2	2.012	2.010	0.002	2021001	2.00	1.96	a
		Average of Peak Amounts =				1.95	
						RPD = 0.19	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	2903204	2.00	2.00	a
1	4.235	4.234	0.001	1907381	2.00	2.00	a
1	4.315	4.314	0.001	3451272	2.00	2.00	a
1	4.515	4.514	0.001	3503699	2.00	2.00	a
1	4.921	4.922	-0.001	2953701	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	3.523	3.522	0.001	3638829	2.00	2.00	
2	3.820	3.819	0.001	2685906	2.00	2.01	a
2	3.906	3.904	0.002	5834794	2.00	2.01	
2	4.040	4.040	0.000	5931372	2.00	2.01	
2	4.474	4.473	0.001	4993931	2.00	2.01	
		Average of Peak Amounts =				2.01	
						RPD = 0.42	

Reagents:

21-54w/IS@2.0_00006 Amount Added: 0.25 Units: mL

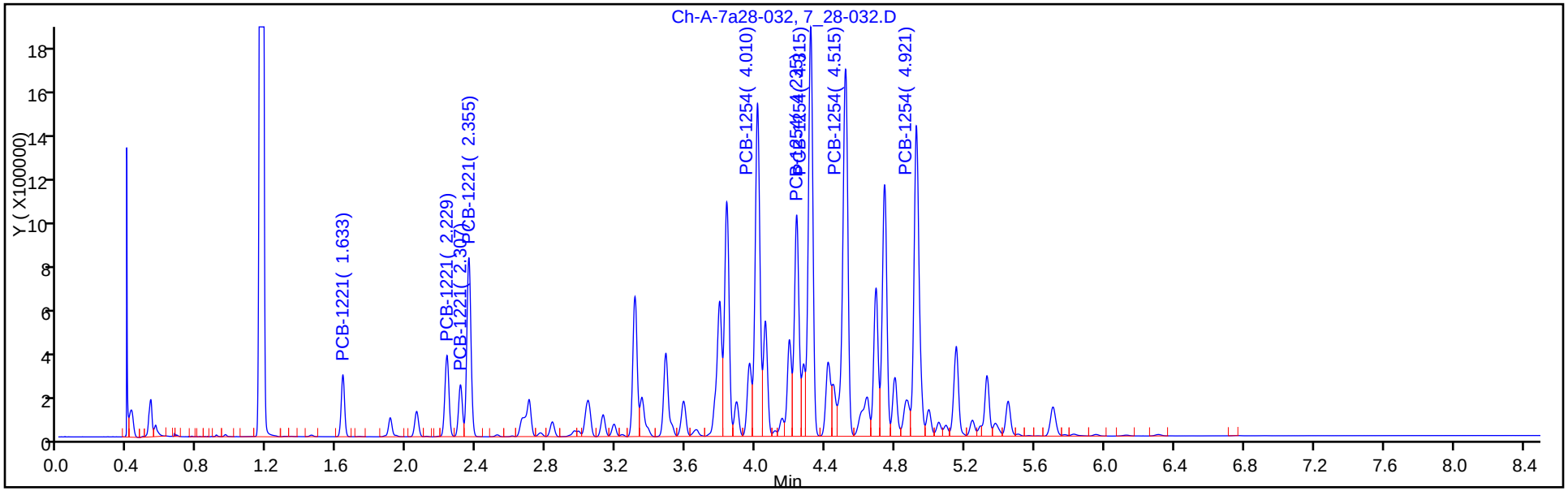
Report Date: 29-Mar-2017 10:54:40 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

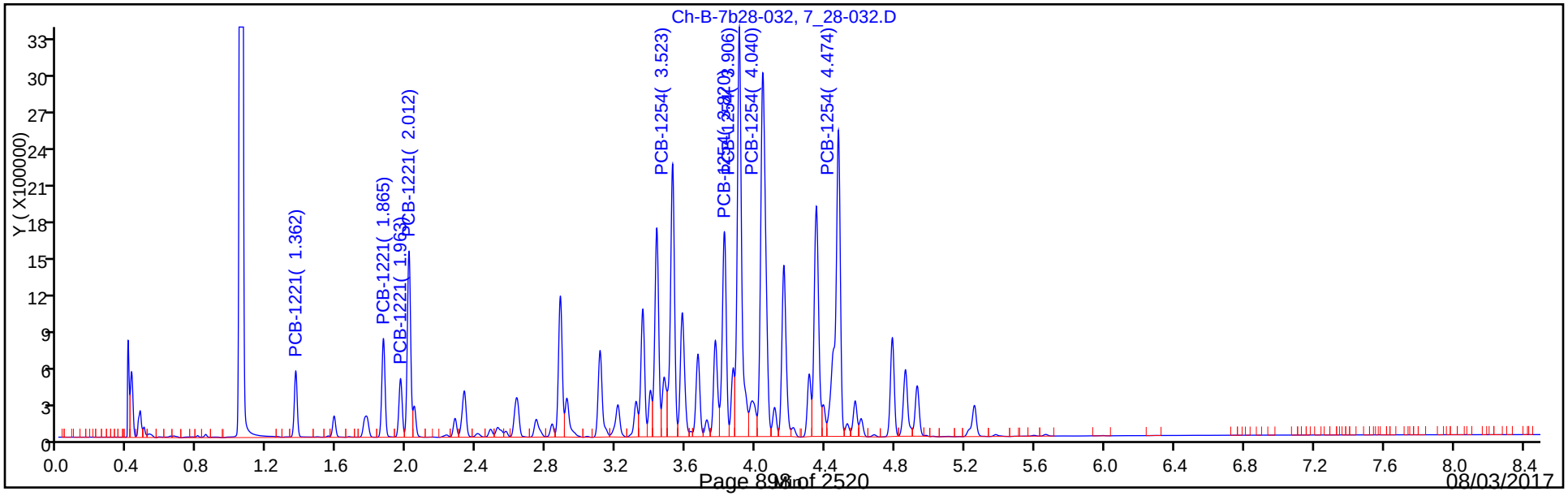
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D

Injection Date:	28-Mar-2017 15:56:09	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 16:12:05 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:40:52

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14308006	0.5000	0.5000	
2	1.050	1.051	-0.001	25593382	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	109077	0.5000	0.5405	M
1	2.229	2.230	-0.001	173389	0.5000	0.5411	
1	2.307	2.307	0.000	107292	0.5000	0.5516	
1	2.355	2.355	0.000	386057	0.5000	0.5389	
		Average of Peak Amounts =				0.5430	
2	1.361	1.360	0.001	201666	0.5000	0.5649	
2	1.864	1.863	0.001	301320	0.5000	0.5397	
2	1.963	1.963	0.000	183963	0.5000	0.5430	
2	2.011	2.010	0.001	585123	0.5000	0.5400	
		Average of Peak Amounts =				0.5469	
						RPD = 0.71	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	749512	0.5000	0.5041	
1	4.234	4.234	0.000	486485	0.5000	0.4995	
1	4.314	4.314	0.000	884788	0.5000	0.5023	
1	4.514	4.514	0.000	891455	0.5000	0.4994	
1	4.922	4.922	0.000	751302	0.5000	0.4992	
		Average of Peak Amounts =				0.5009	
2	3.523	3.522	0.000	952420	0.5000	0.5005	
2	3.820	3.819	0.001	690073	0.5000	0.4940	
2	3.905	3.904	0.001	1485783	0.5000	0.4911	
2	4.041	4.040	0.001	1504462	0.5000	0.4897	
2	4.474	4.473	0.001	1255166	0.5000	0.4856	
		Average of Peak Amounts =				0.4922	
						RPD = 1.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00008 Amount Added: 0.25 Units: mL

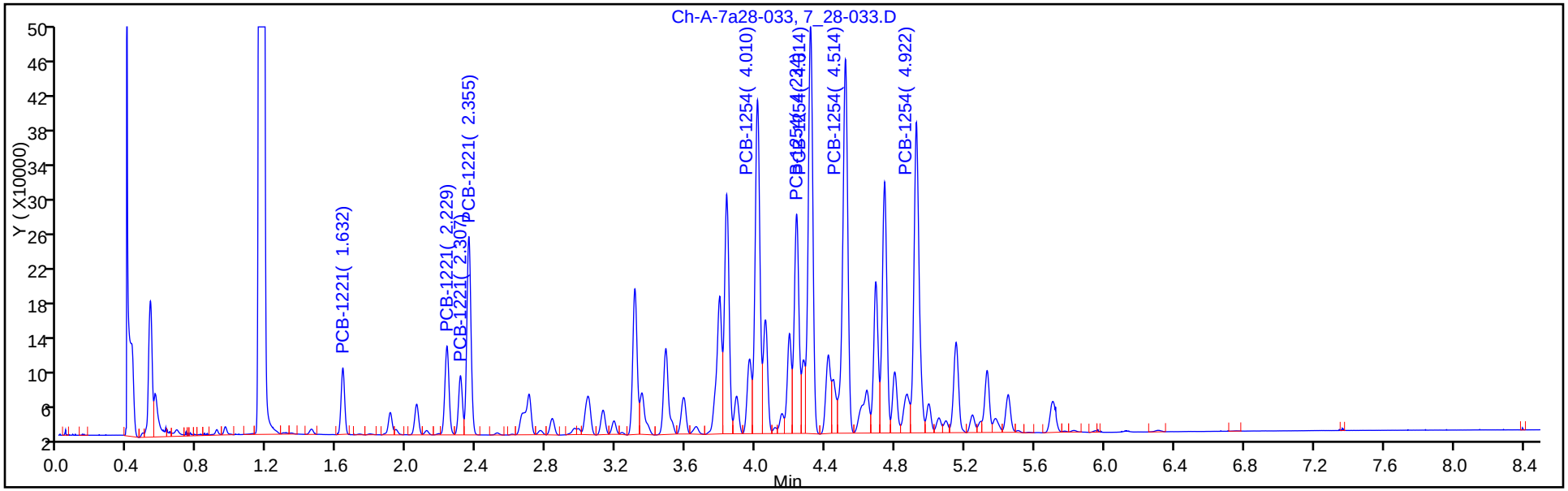
Report Date: 29-Mar-2017 10:54:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

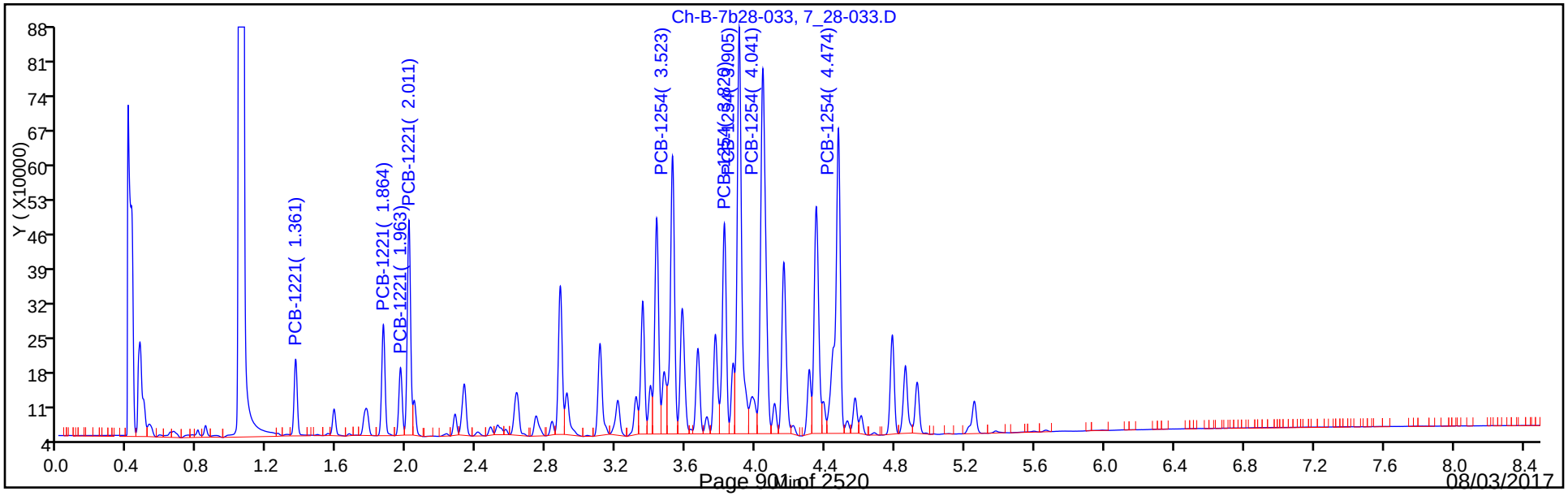
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D

Injection Date:	28-Mar-2017 16:12:05	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:54:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D

Injection Date: 28-Mar-2017 16:12:05 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

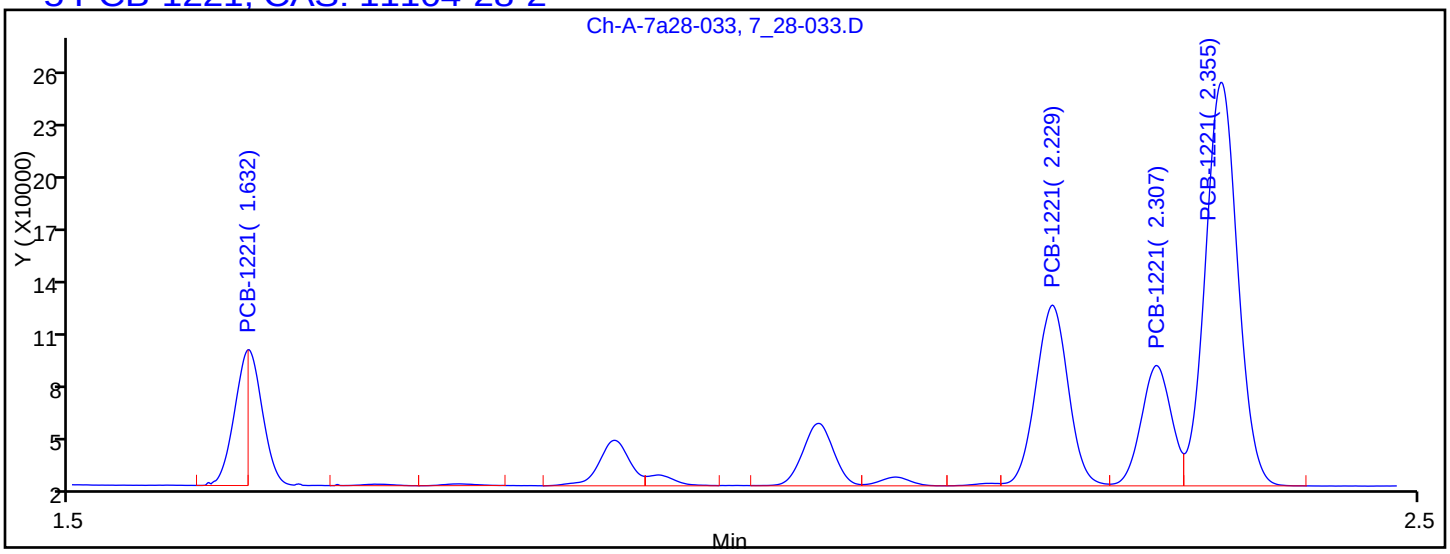
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

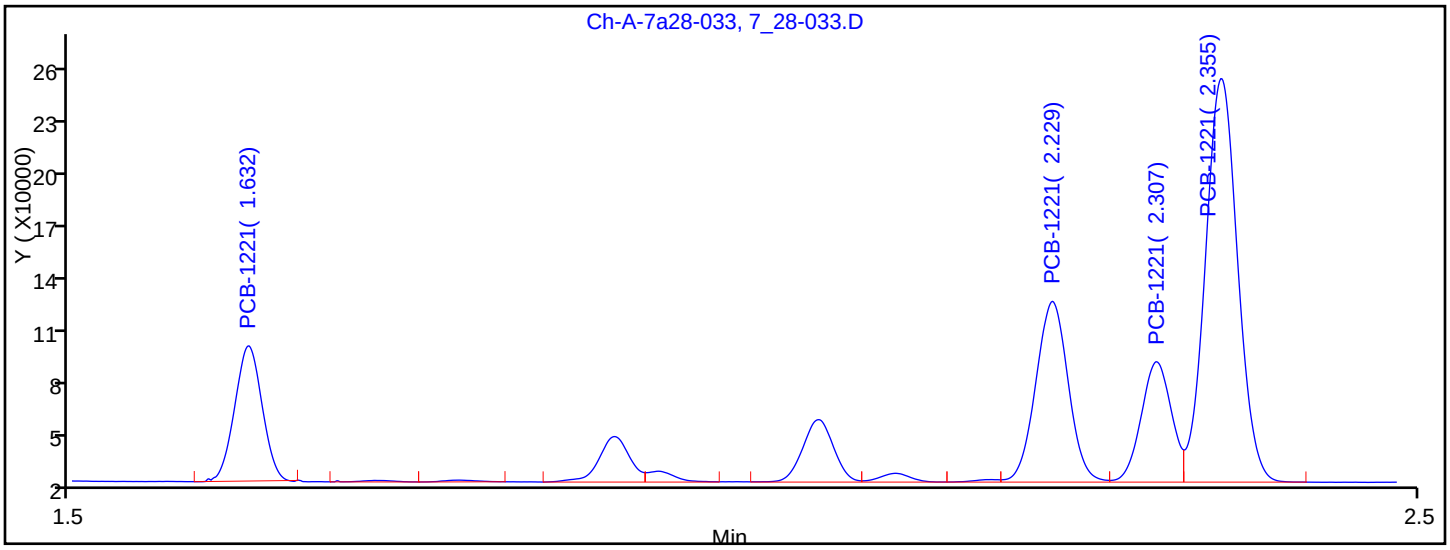
Column: Detector Ch-A-7A136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.632	Response = 53702
2.229	Response = 173389
2.307	Response = 107292
2.355	Response = 386057



Manual Integration Results

1.632	Response = 109077	M
2.229	Response = 173389	
2.307	Response = 107292	
2.355	Response = 386057	

Reviewer: owenj, 28-Mar-2017 16:34:08

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 16:28:08 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:52:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.167	1.167	0.000	13775491	0.5000	0.5000	M
2	1.048	1.048	0.000	25230848	0.5000	0.5000	M
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	7207	0.0200	0.0188	M
1	2.230	2.230	0.000	9757	0.0200	0.0188	M
1	2.307	2.307	0.000	6541	0.0200	0.0184	
1	2.355	2.355	0.000	21621	0.0200	0.0188	
		Average of Peak Amounts =				0.0187	
2	1.360	1.360	0.000	15870	0.0200	0.0180	M
2	1.863	1.863	0.000	19169	0.0200	0.0188	M
2	1.963	1.963	0.000	11012	0.0200	0.0187	M
2	2.010	2.010	0.000	32777	0.0200	0.0188	M
		Average of Peak Amounts =				0.0186	
						RPD = 0.63	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							M
1	4.011	4.011	0.000	40540	0.0200	0.0199	M
1	4.234	4.234	0.000	26297	0.0200	0.0200	M
1	4.314	4.314	0.000	45353	0.0200	0.0199	M
1	4.514	4.514	0.000	45692	0.0200	0.0200	M
1	4.922	4.922	0.000	38628	0.0200	0.0200	M
		Average of Peak Amounts =				0.0200	
2	3.522	3.522	0.000	50766	0.0200	0.0200	
2	3.819	3.819	0.000	35490	0.0200	0.0202	
2	3.904	3.904	0.000	74054	0.0200	0.0203	
2	4.040	4.040	0.000	74452	0.0200	0.0203	
2	4.473	4.473	0.000	64659	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 1.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00005 Amount Added: 0.25 Units: mL

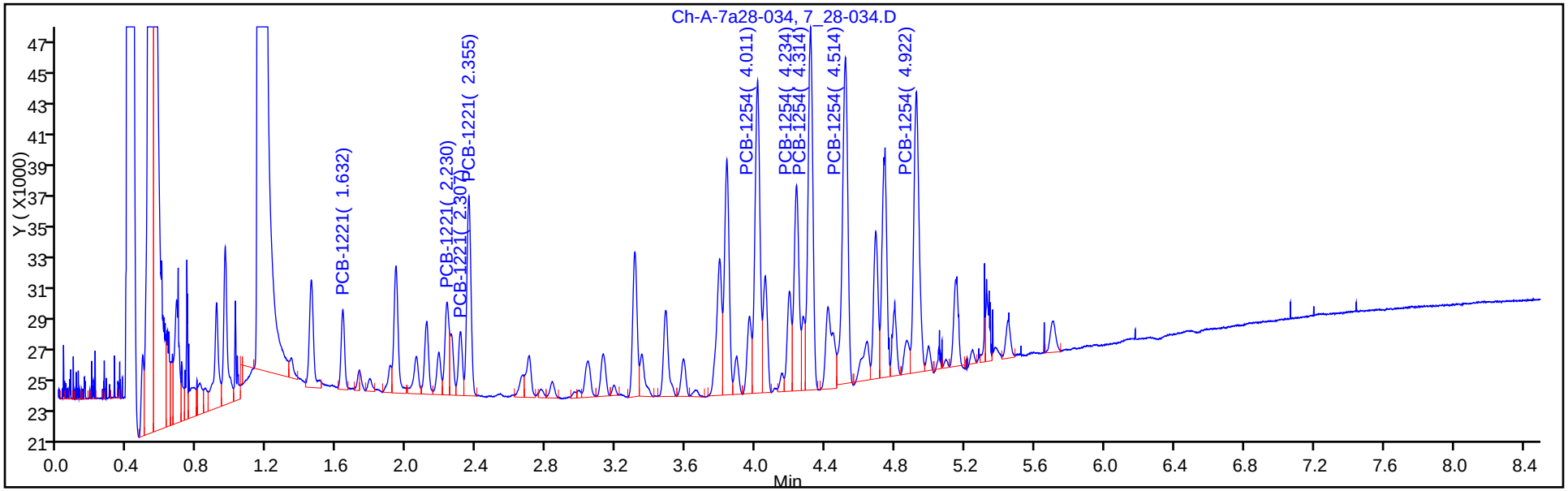
Report Date: 29-Mar-2017 10:54:48 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

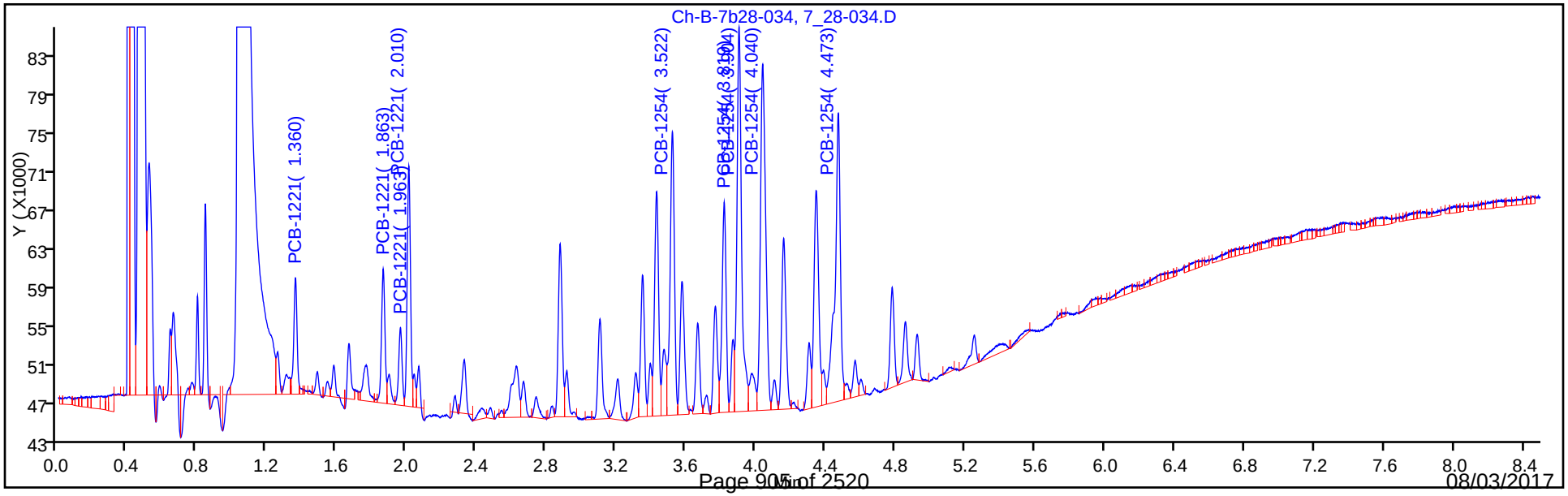
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date:	28-Mar-2017 16:28:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

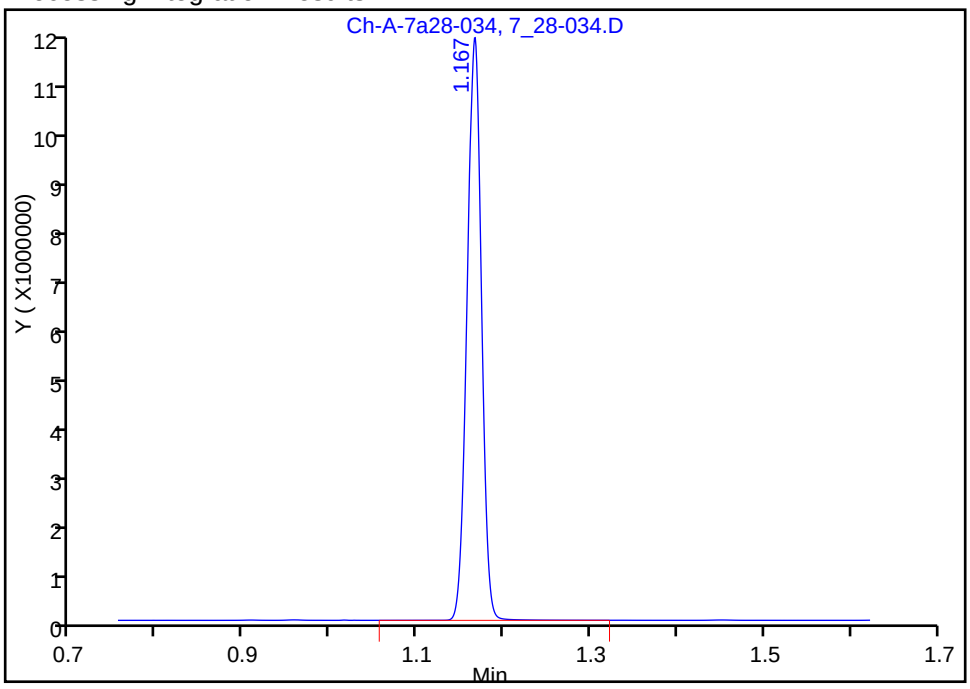
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

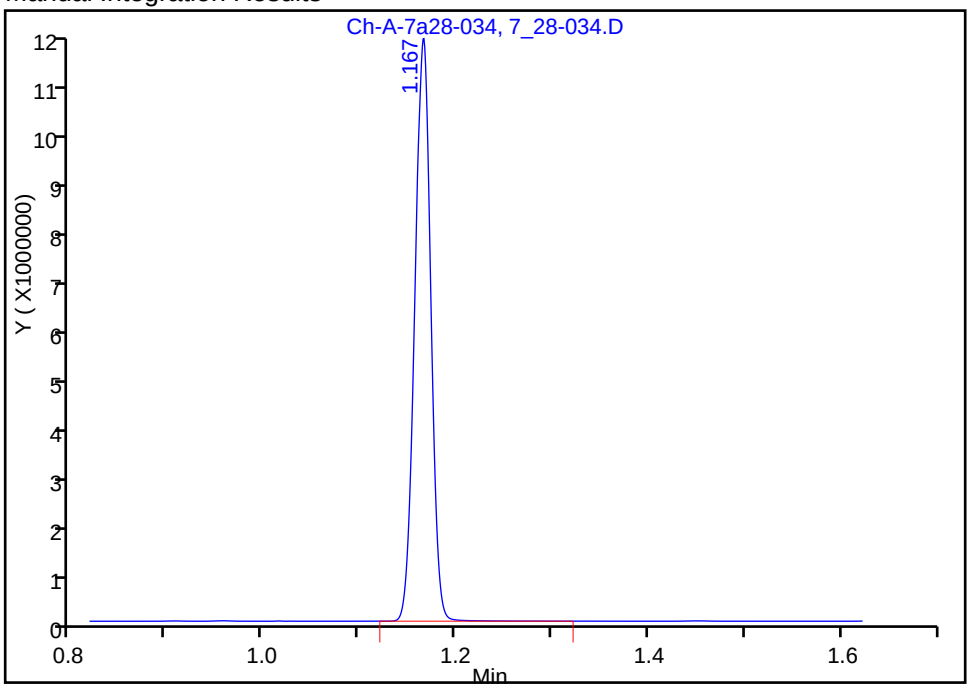
Processing Integration Results

RT: 1.17
Area: 13791629
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.17
Area: 13775491
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 16:45:32
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

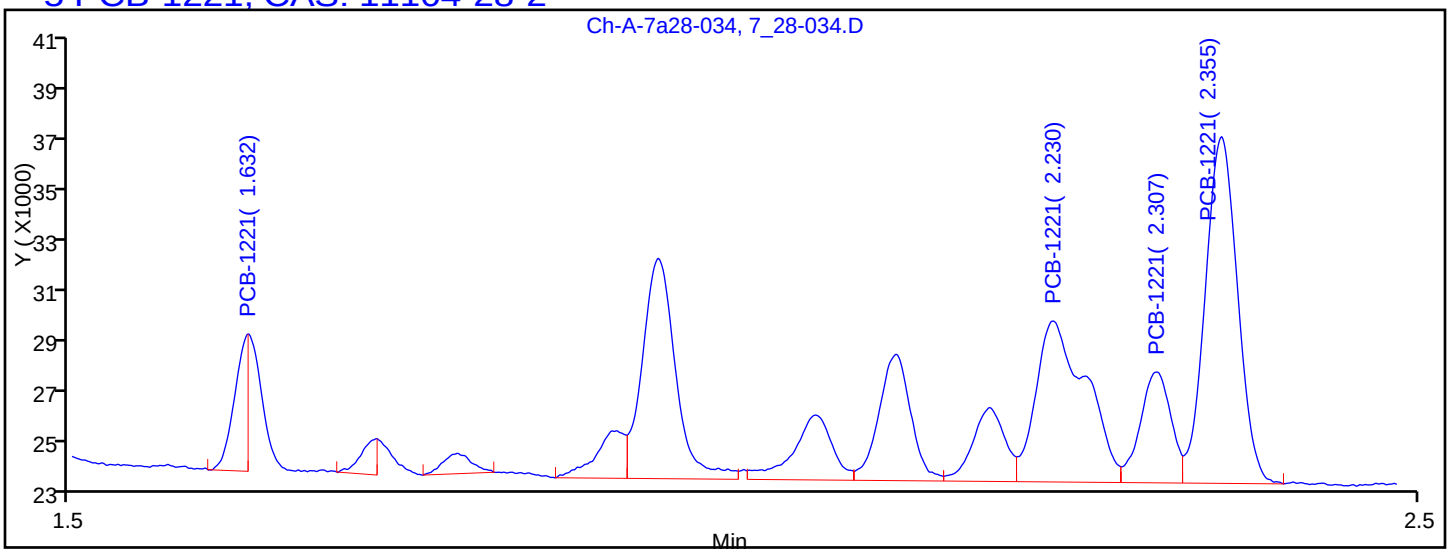
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

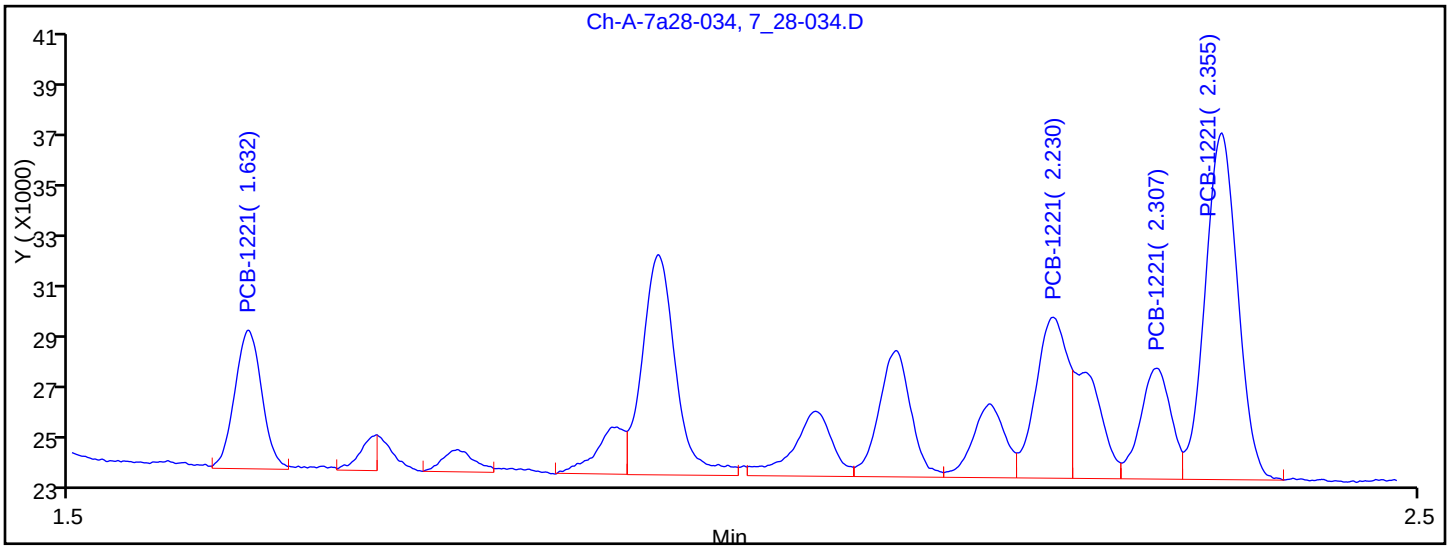
Column: Detector Ch-A-7A136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.632	Response = 3418
2.230	Response = 15493
2.307	Response = 6541
2.355	Response = 21621



Manual Integration Results

1.632	Response = 7207	M
2.230	Response = 9757	M
2.307	Response = 6541	
2.355	Response = 21621	

Reviewer: owenj, 28-Mar-2017 16:44:10

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

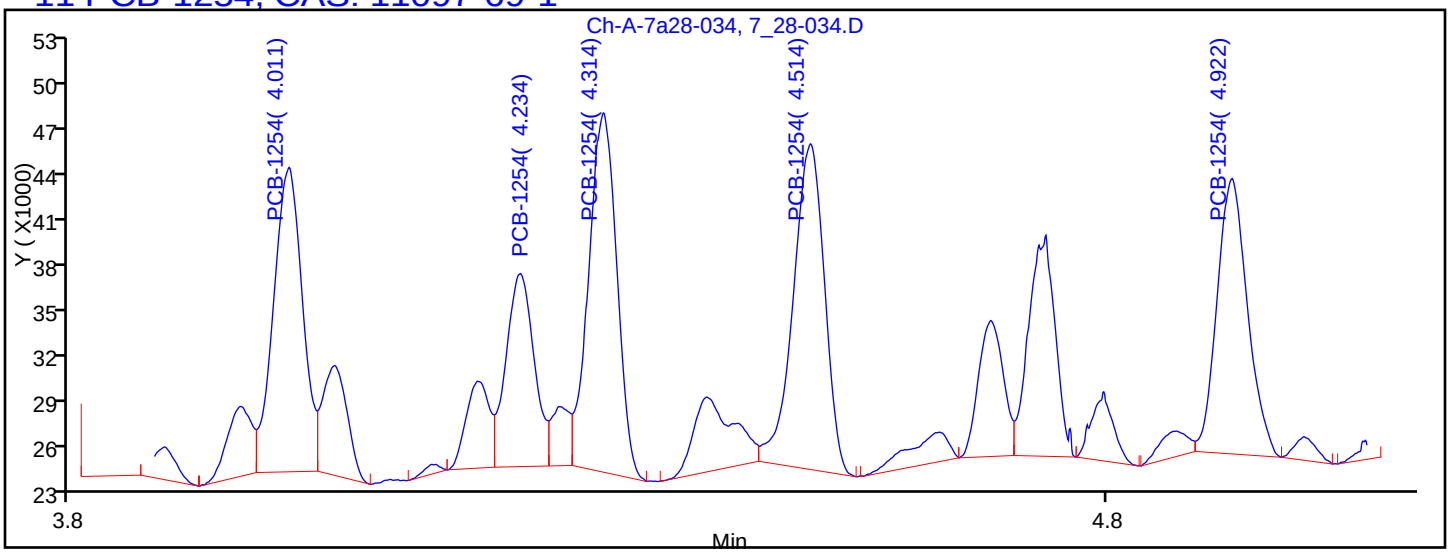
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

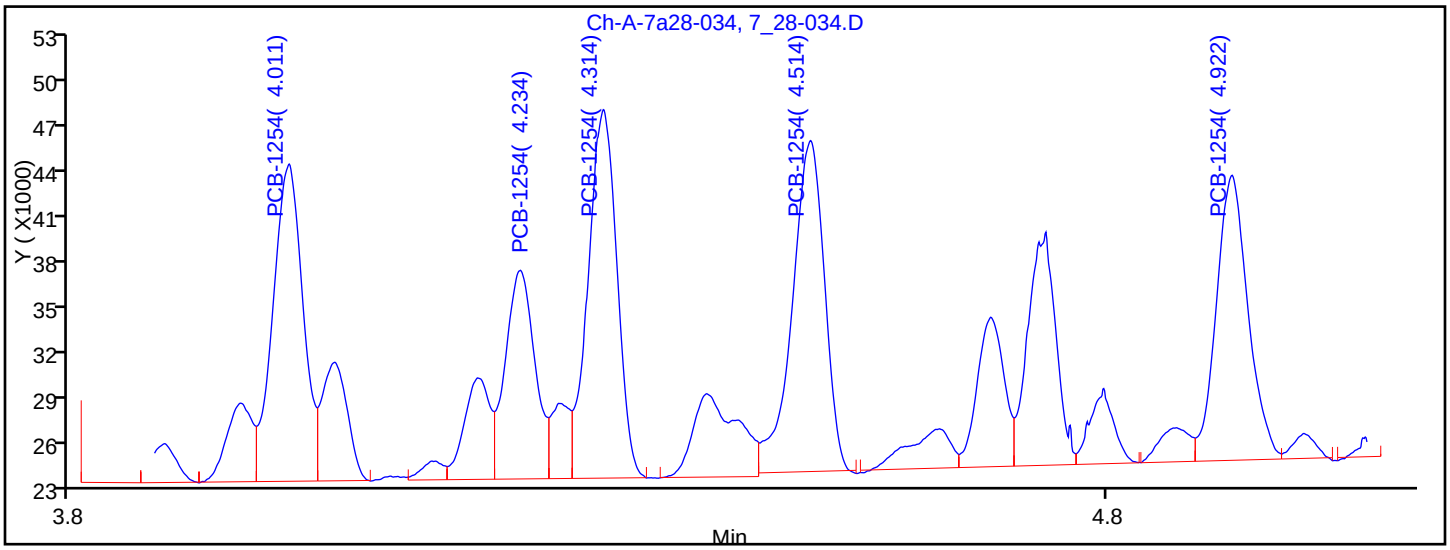
Column: Detector Ch-A-7A136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

4.011	Response = 37674
4.234	Response = 23171
4.314	Response = 43201
4.514	Response = 43582
4.922	Response = 35756



Manual Integration Results

4.011	Response = 40540	M
4.234	Response = 26297	M
4.314	Response = 45353	M
4.514	Response = 45692	M
4.922	Response = 38628	M

Reviewer: owenj, 28-Mar-2017 16:44:01

Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	0.0157	0.0079	0.0065			Lin1	0.0002	0.0066							0.9960		0.9900
PCB-1221 Peak 2	0.0190	0.0118	0.0105			Lin1	0.0002	0.0106							0.9980		0.9900
PCB-1221 Peak 3	0.0109	0.0072	0.0064			Lin1	0.0001	0.0064							0.9980		0.9900
PCB-1221 Peak 4	0.0325	0.0229	0.0204			Lin1	0.0003	0.0207							0.9980		0.9900
PCB-1254 Peak 1	0.0503	0.0372	0.0368			Lin1	0.0003	0.0366							1.0000		0.9900
PCB-1254 Peak 2	0.0352	0.0270	0.0271			Lin1	0.0002	0.0270							1.0000		0.9900
PCB-1254 Peak 3	0.0734	0.0581	0.0589			Lin1	0.0003	0.0585							1.0000		0.9900
PCB-1254 Peak 4	0.0738	0.0588	0.0599			Lin1	0.0003	0.0595							1.0000		0.9900
PCB-1254 Peak 5	0.0641	0.0490	0.0504			Lin1	0.0003	0.0500							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	15870	201666	645413			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	19169	301320	1035449			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	11012	183963	628981			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	32777	585123	2021001			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	50766	952420	3638829			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	35490	690073	2685906			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Lin1	74054	1485783	5834794			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Lin1	74452	1504462	5931372			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	64659	1255166	4993931			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 15:56:09 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:40 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:31:20

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14183474	0.5000	0.5000	
2	1.051	1.051	0.000	24751816	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.633	1.632	0.000	382278	2.00	1.96	a
1	2.229	2.230	-0.001	611505	2.00	1.96	a
1	2.307	2.307	0.000	367613	2.00	1.95	a
1	2.355	2.355	0.000	1369065	2.00	1.96	a
		Average of Peak Amounts =				1.96	
2	1.362	1.360	0.002	645413	2.00	1.94	a
2	1.865	1.863	0.002	1035449	2.00	1.96	a
2	1.963	1.963	0.000	628981	2.00	1.96	a
2	2.012	2.010	0.002	2021001	2.00	1.96	a
		Average of Peak Amounts =				1.95	
						RPD = 0.19	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	2903204	2.00	2.00	a
1	4.235	4.234	0.001	1907381	2.00	2.00	a
1	4.315	4.314	0.001	3451272	2.00	2.00	a
1	4.515	4.514	0.001	3503699	2.00	2.00	a
1	4.921	4.922	-0.001	2953701	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	3.523	3.522	0.001	3638829	2.00	2.00	
2	3.820	3.819	0.001	2685906	2.00	2.01	a
2	3.906	3.904	0.002	5834794	2.00	2.01	
2	4.040	4.040	0.000	5931372	2.00	2.01	
2	4.474	4.473	0.001	4993931	2.00	2.01	
		Average of Peak Amounts =				2.01	
						RPD = 0.42	

Reagents:

21-54w/IS@2.0_00006 Amount Added: 0.25 Units: mL

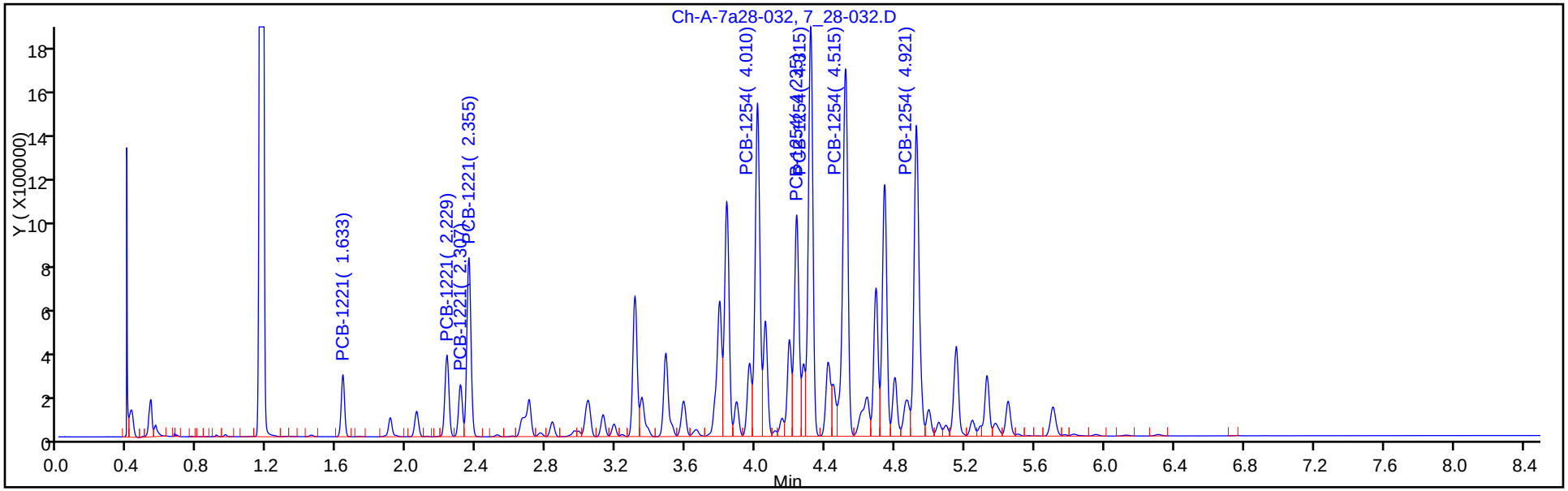
Report Date: 29-Mar-2017 10:54:41 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

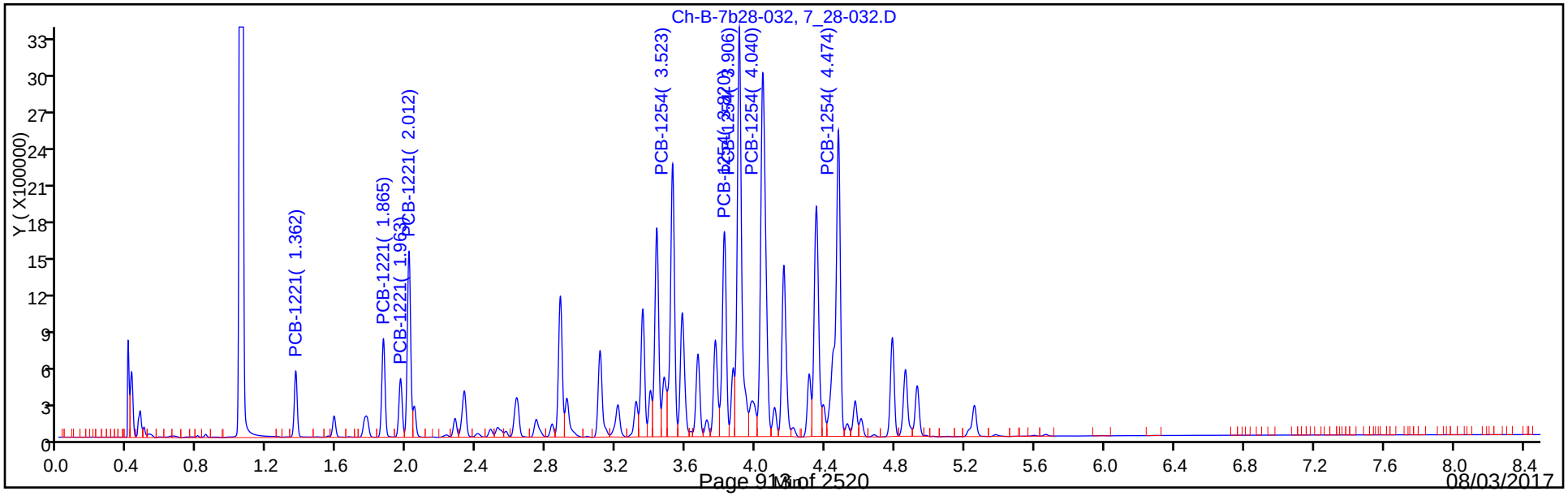
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D

Injection Date:	28-Mar-2017 15:56:09	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 16:12:05 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:40:52

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14308006	0.5000	0.5000	
2	1.050	1.051	-0.001	25593382	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	109077	0.5000	0.5405	M
1	2.229	2.230	-0.001	173389	0.5000	0.5411	
1	2.307	2.307	0.000	107292	0.5000	0.5516	
1	2.355	2.355	0.000	386057	0.5000	0.5389	
		Average of Peak Amounts =				0.5430	
2	1.361	1.360	0.001	201666	0.5000	0.5649	
2	1.864	1.863	0.001	301320	0.5000	0.5397	
2	1.963	1.963	0.000	183963	0.5000	0.5430	
2	2.011	2.010	0.001	585123	0.5000	0.5400	
		Average of Peak Amounts =				0.5469	
						RPD = 0.71	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	749512	0.5000	0.5041	
1	4.234	4.234	0.000	486485	0.5000	0.4995	
1	4.314	4.314	0.000	884788	0.5000	0.5023	
1	4.514	4.514	0.000	891455	0.5000	0.4994	
1	4.922	4.922	0.000	751302	0.5000	0.4992	
		Average of Peak Amounts =				0.5009	
2	3.523	3.522	0.000	952420	0.5000	0.5005	
2	3.820	3.819	0.001	690073	0.5000	0.4940	
2	3.905	3.904	0.001	1485783	0.5000	0.4911	
2	4.041	4.040	0.001	1504462	0.5000	0.4897	
2	4.474	4.473	0.001	1255166	0.5000	0.4856	
		Average of Peak Amounts =				0.4922	
						RPD = 1.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00008 Amount Added: 0.25 Units: mL

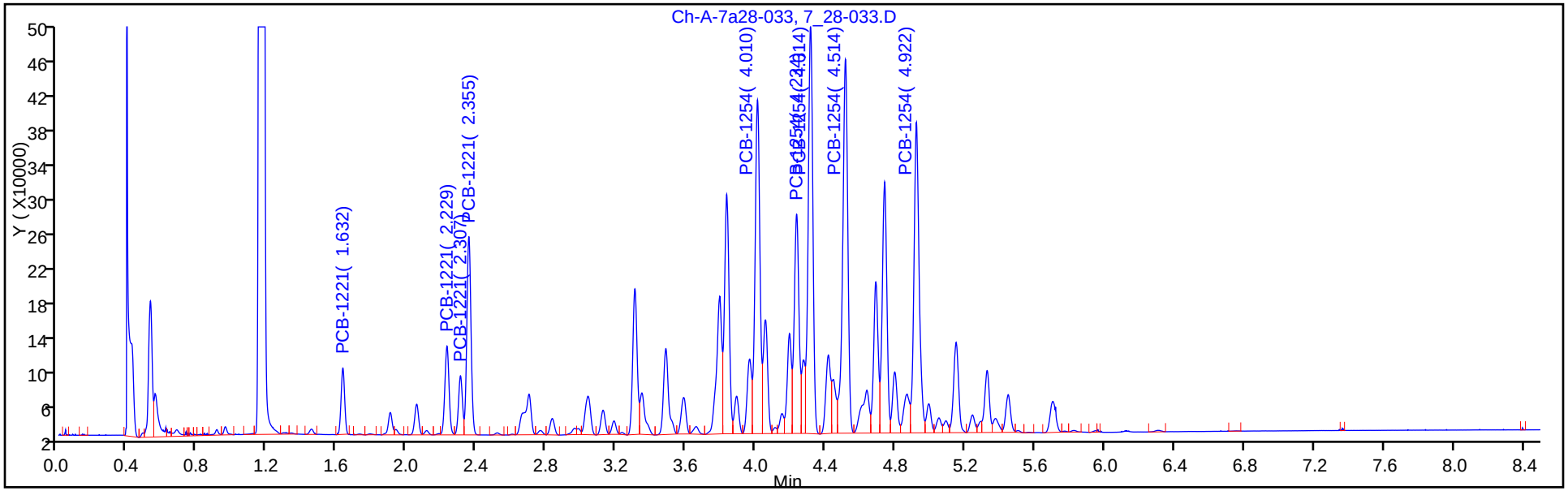
Report Date: 29-Mar-2017 10:54:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

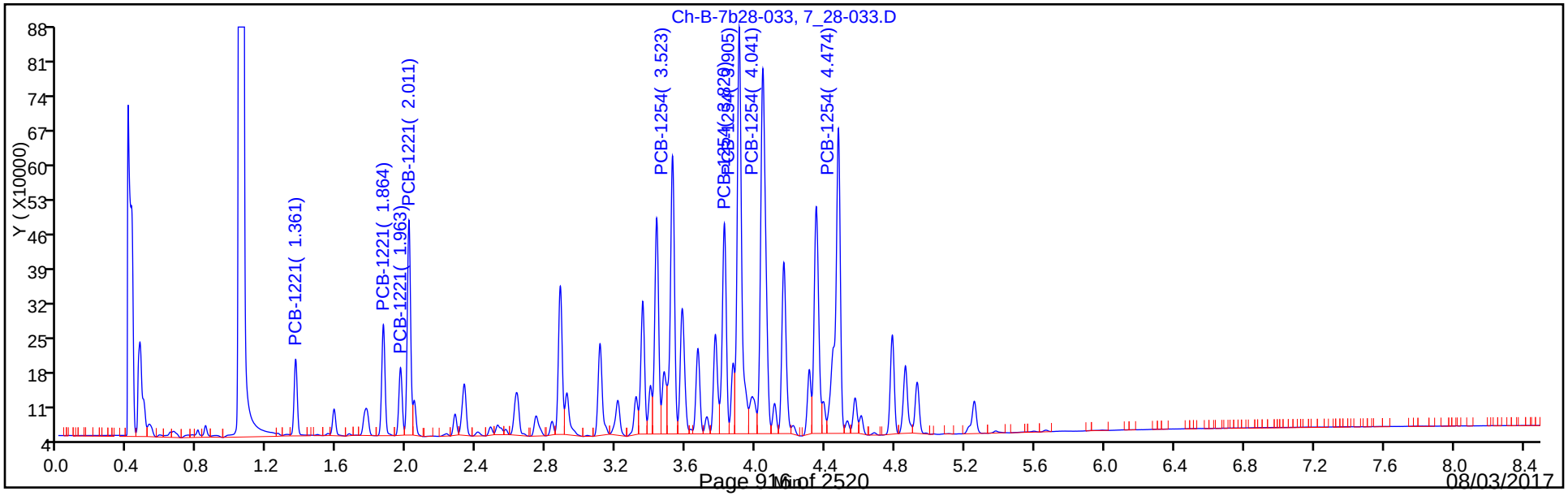
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D

Injection Date:	28-Mar-2017 16:12:05	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 16:28:08 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:52:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.167	1.167	0.000	13775491	0.5000	0.5000	M
2	1.048	1.048	0.000	25230848	0.5000	0.5000	M
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	7207	0.0200	0.0188	M
1	2.230	2.230	0.000	9757	0.0200	0.0188	M
1	2.307	2.307	0.000	6541	0.0200	0.0184	
1	2.355	2.355	0.000	21621	0.0200	0.0188	
		Average of Peak Amounts =				0.0187	
2	1.360	1.360	0.000	15870	0.0200	0.0180	M
2	1.863	1.863	0.000	19169	0.0200	0.0188	M
2	1.963	1.963	0.000	11012	0.0200	0.0187	M
2	2.010	2.010	0.000	32777	0.0200	0.0188	M
		Average of Peak Amounts =				0.0186	
						RPD = 0.63	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							M
1	4.011	4.011	0.000	40540	0.0200	0.0199	M
1	4.234	4.234	0.000	26297	0.0200	0.0200	M
1	4.314	4.314	0.000	45353	0.0200	0.0199	M
1	4.514	4.514	0.000	45692	0.0200	0.0200	M
1	4.922	4.922	0.000	38628	0.0200	0.0200	M
		Average of Peak Amounts =				0.0200	
2	3.522	3.522	0.000	50766	0.0200	0.0200	
2	3.819	3.819	0.000	35490	0.0200	0.0202	
2	3.904	3.904	0.000	74054	0.0200	0.0203	
2	4.040	4.040	0.000	74452	0.0200	0.0203	
2	4.473	4.473	0.000	64659	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 1.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00005 Amount Added: 0.25 Units: mL

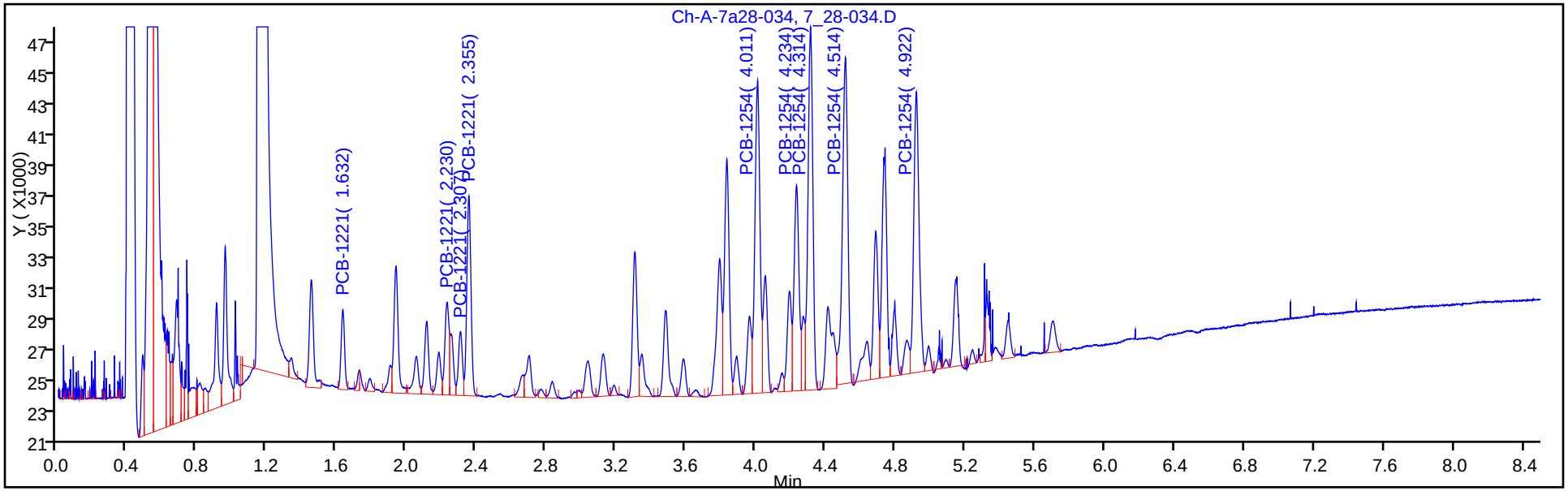
Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

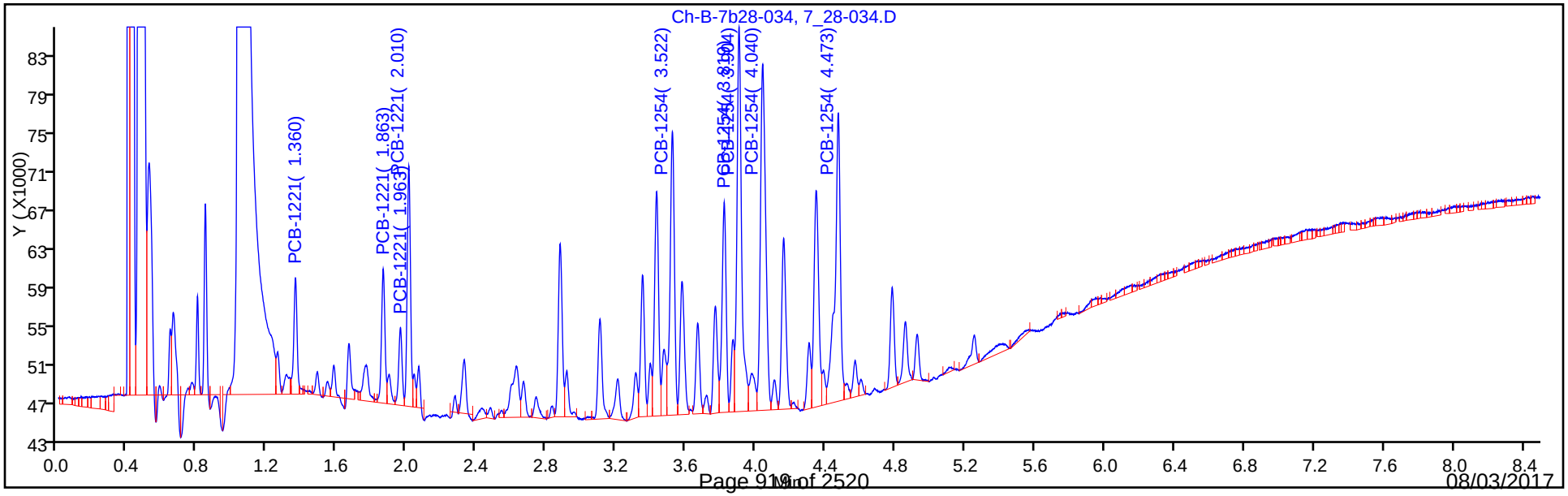
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date:	28-Mar-2017 16:28:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

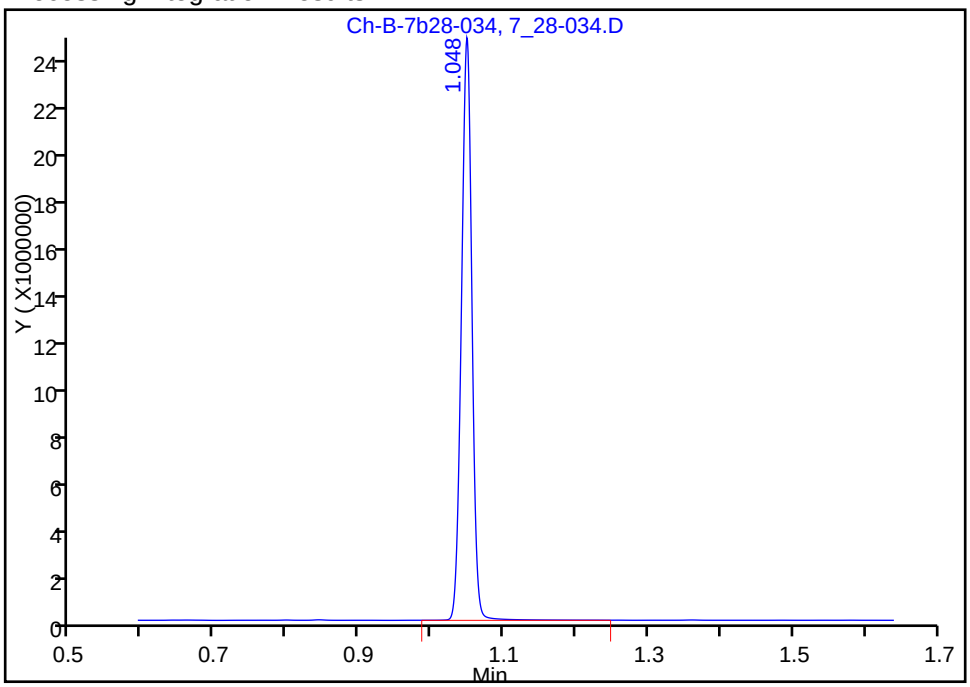
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

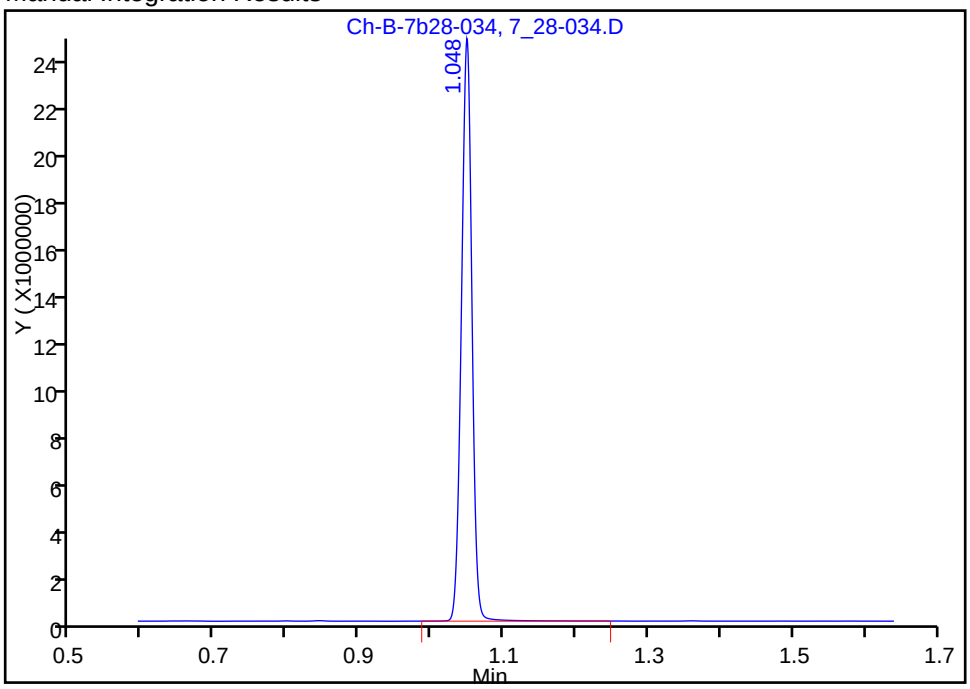
Processing Integration Results

RT: 1.05
Area: 25271636
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.05
Area: 25230848
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 16:45:15
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

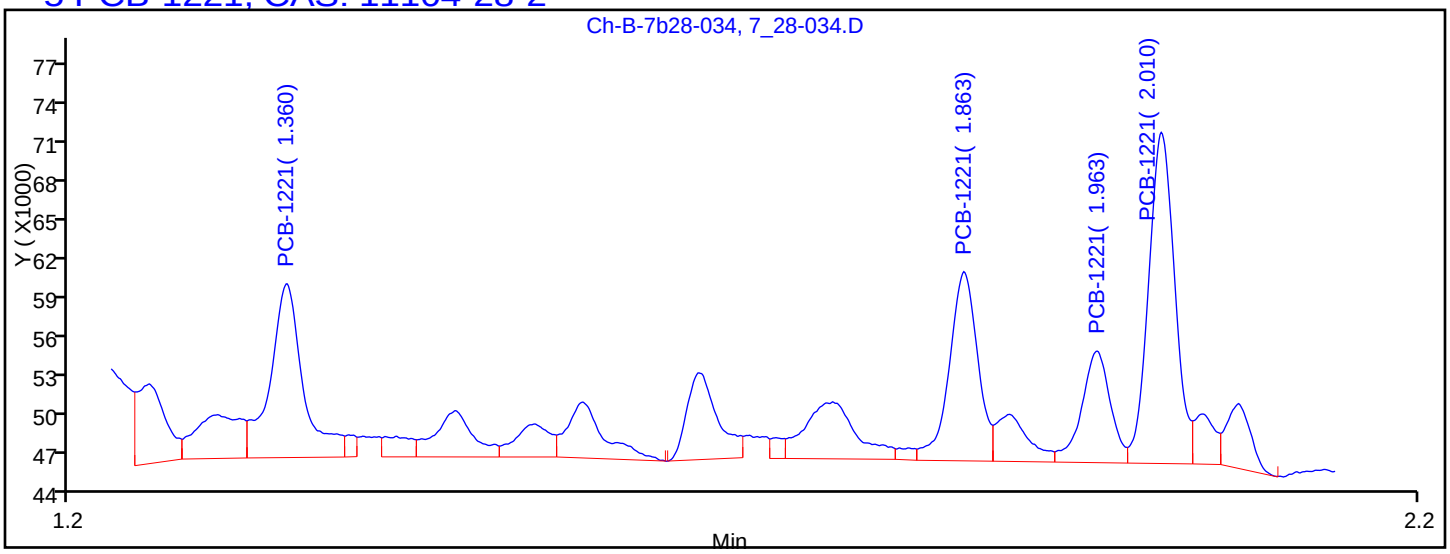
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

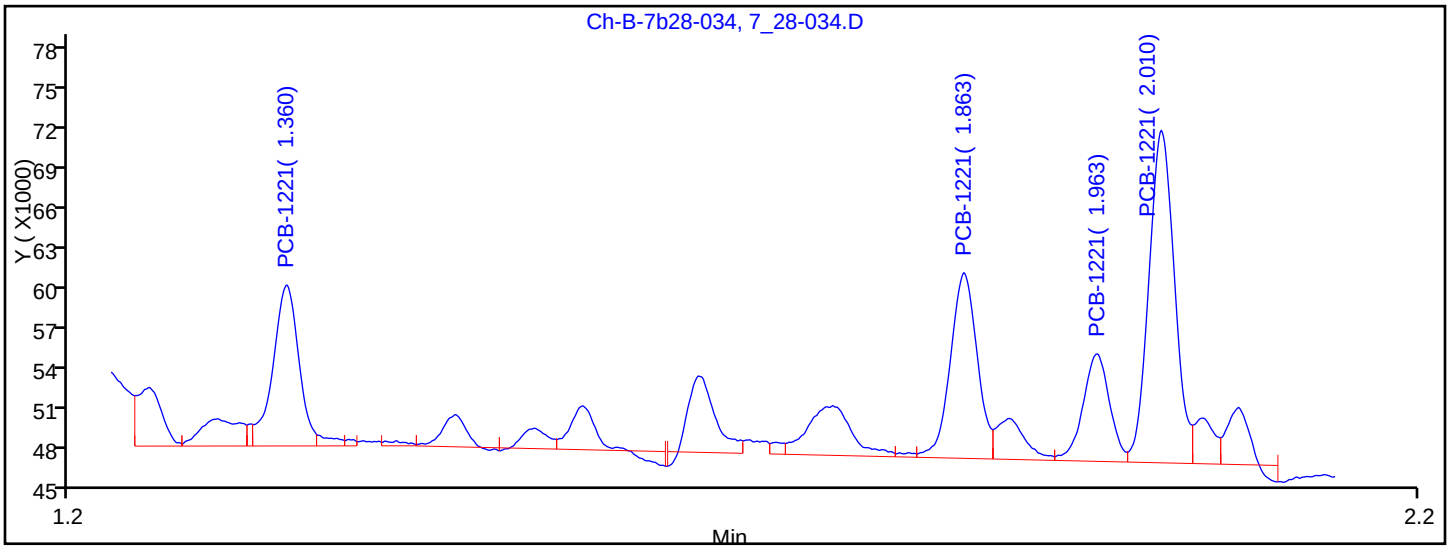
Column: Detector Ch-B-7b136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.360	Response = 22341
1.863	Response = 21104
1.963	Response = 12569
2.010	Response = 34031



Manual Integration Results

1.360	Response = 15870	M
1.863	Response = 19169	M
1.963	Response = 11012	M
2.010	Response = 32777	M

Reviewer: owenj, 28-Mar-2017 16:45:15

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

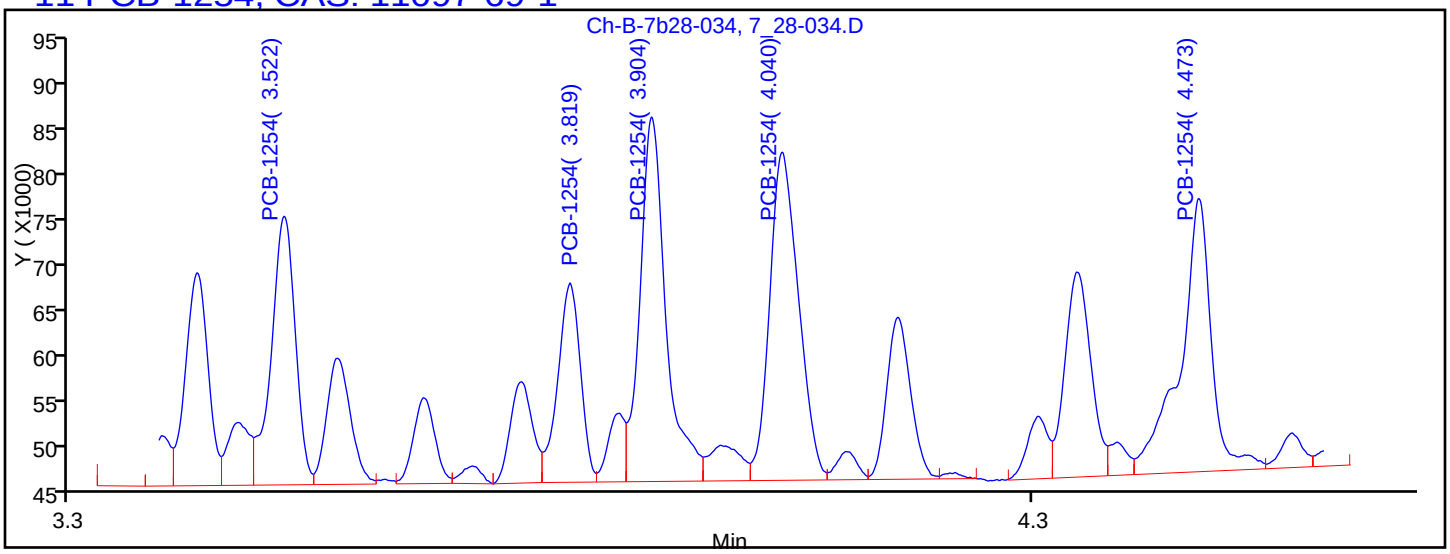
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

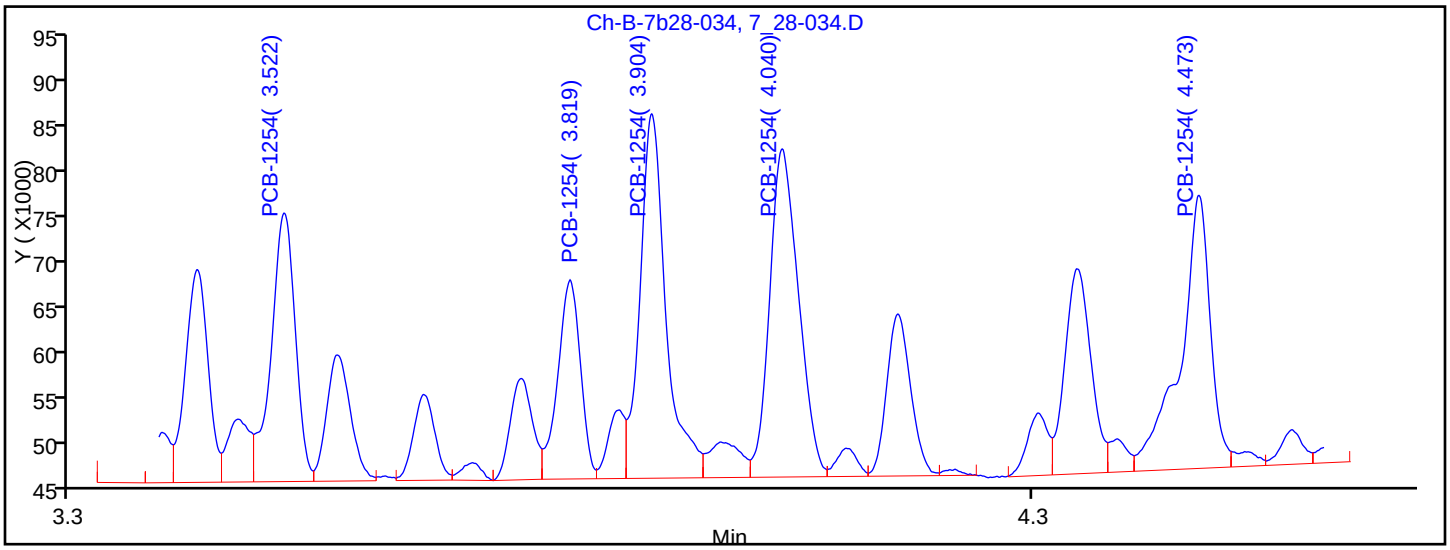
Column: Detector Ch-B-7b136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

3.522	Response = 50766
3.819	Response = 35490
3.904	Response = 74054
4.040	Response = 74452
4.473	Response = 67437



Manual Integration Results

3.522	Response = 50766	
3.819	Response = 35490	
3.904	Response = 74054	
4.040	Response = 74452	
4.473	Response = 64659	M

Reviewer: owenj, 28-Mar-2017 16:44:16

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30048

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	0.0313	0.0235	0.0208			Lin1	0.0002	0.0211							0.9980		0.9900
PCB-1232 Peak 2	0.0174	0.0122	0.0109			Lin1	0.0001	0.0110							0.9980		0.9900
PCB-1232 Peak 3	0.0519	0.0397	0.0379			Lin1	0.0003	0.0380							1.0000		0.9900
PCB-1232 Peak 4	0.0261	0.0153	0.0142			Lin1	0.0002	0.0143							1.0000		0.9900
PCB-1232 Peak 5	0.0139	0.0105	0.0099			Lin1	0.0001	0.0099							1.0000		0.9900
PCB-1262 Peak 1	0.0688	0.0534	0.0530			Lin1	0.0003	0.0528							1.0000		0.9900
PCB-1262 Peak 2	0.0544	0.0413	0.0412			Lin1	0.0003	0.0410							1.0000		0.9900
PCB-1262 Peak 3	0.1197	0.0971	0.0977			Lin1	0.0004	0.0973							1.0000		0.9900
PCB-1262 Peak 4	0.0434	0.0315	0.0310			Lin1	0.0003	0.0309							1.0000		0.9900
PCB-1262 Peak 5	0.0520	0.0386	0.0387			Lin1	0.0003	0.0385							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30048

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	17402	334911	1168343			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	9674	173804	610530			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	28820	565414	2131860			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	14529	218513	800272			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	7700	149292	555432			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Lin1	38246	760515	2976769			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	30264	588139	2314069			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Lin1	66533	1384220	5491646			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Lin1	24137	448320	1743461			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Lin1	28917	550434	2172970			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 16:59:49 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:32:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14046745	0.5000	0.5000	
2	1.050	1.048	0.002	25289938	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.354	2.355	-0.001	1168343	2.00	1.96	
1	2.833	2.834	-0.002	610530	2.00	1.96	
1	3.039	3.039	0.000	2131860	2.00	1.99	
1	3.124	3.126	-0.002	800272	2.00	1.98	
1	3.187	3.187	0.000	555432	2.00	1.98	
		Average of Peak Amounts =				1.97	
2	2.012	2.011	0.001	1750185	2.00	1.95	M
2	2.323	2.322	0.000	1769313	2.00	1.96	a
2	2.630	2.628	0.002	3407079	2.00	1.98	a
2	2.740	2.739	0.001	1296867	2.00	1.97	a
2	3.108	3.108	0.000	1434330	2.00	1.97	a
		Average of Peak Amounts =				1.96	
						RPD = 0.46	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	5.049	5.050	-0.001	2976769	2.00	2.00	a
1	5.242	5.243	0.000	2314069	2.00	2.00	a
1	5.448	5.448	0.000	5491646	2.00	2.01	a
1	5.706	5.706	0.000	1743461	2.00	2.00	a
1	5.823	5.823	0.000	2172970	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	4.525	4.526	-0.001	5167503	2.00	2.00	a
2	4.783	4.783	0.000	4115805	2.00	2.00	
2	4.925	4.925	0.000	9998675	2.00	2.02	a
2	5.220	5.220	0.000	4214950	2.00	2.01	a
2	5.257	5.256	0.001	6104175	2.00	2.01	a
		Average of Peak Amounts =				2.01	
						RPD = 0.23	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00005 Amount Added: 0.25 Units: mL

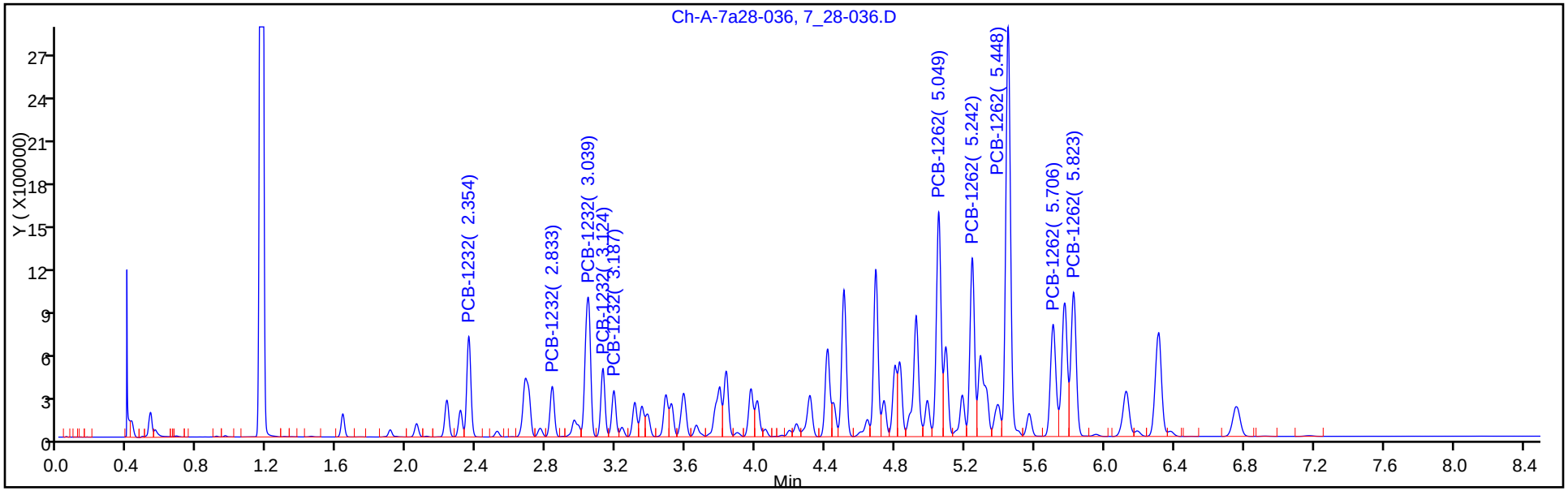
Report Date: 29-Mar-2017 10:55:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

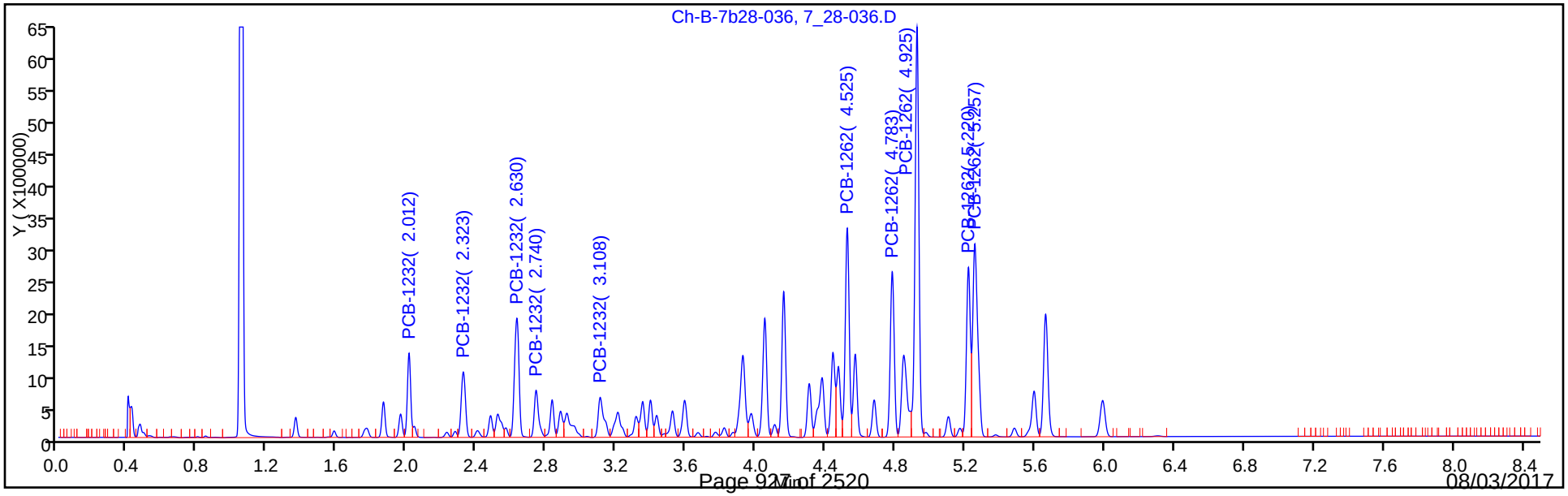
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D

Injection Date:	28-Mar-2017 16:59:49	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 17:15:44 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:05 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:41:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.165	1.167	-0.002	14250344	0.5000	0.5000	
2	1.049	1.048	0.001	25851508	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.353	2.355	-0.002	334911	0.5000	0.5449	
1	2.832	2.834	-0.002	173804	0.5000	0.5409	
1	3.038	3.039	-0.001	565414	0.5000	0.5137	
1	3.123	3.126	-0.004	218513	0.5000	0.5204	
1	3.185	3.187	-0.002	149292	0.5000	0.5188	
		Average of Peak Amounts =				0.5277	
2	2.011	2.011	0.000	517419	0.5000	0.5522	M
2	2.322	2.322	0.000	514104	0.5000	0.5457	M
2	2.630	2.628	0.002	932095	0.5000	0.5208	M
2	2.740	2.739	0.001	365995	0.5000	0.5348	M
2	3.108	3.108	0.000	401062	0.5000	0.5318	M
		Average of Peak Amounts =				0.5370	
						RPD = 1.75	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.048	5.050	-0.002	760515	0.5000	0.4993	
1	5.242	5.243	0.000	588139	0.5000	0.4969	
1	5.446	5.448	-0.002	1384220	0.5000	0.4948	
1	5.704	5.706	-0.002	448320	0.5000	0.5007	
1	5.822	5.823	0.000	550434	0.5000	0.4953	
		Average of Peak Amounts =				0.4974	
2	4.526	4.526	0.000	1320211	0.5000	0.4973	M
2	4.783	4.783	0.000	1068273	0.5000	0.5034	M
2	4.925	4.925	0.000	2452156	0.5000	0.4835	M
2	5.220	5.220	0.000	1056100	0.5000	0.4916	M
2	5.257	5.256	0.001	1512599	0.5000	0.4872	M
		Average of Peak Amounts =				0.4926	
						RPD = 0.97	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00008 Amount Added: 0.25 Units: mL

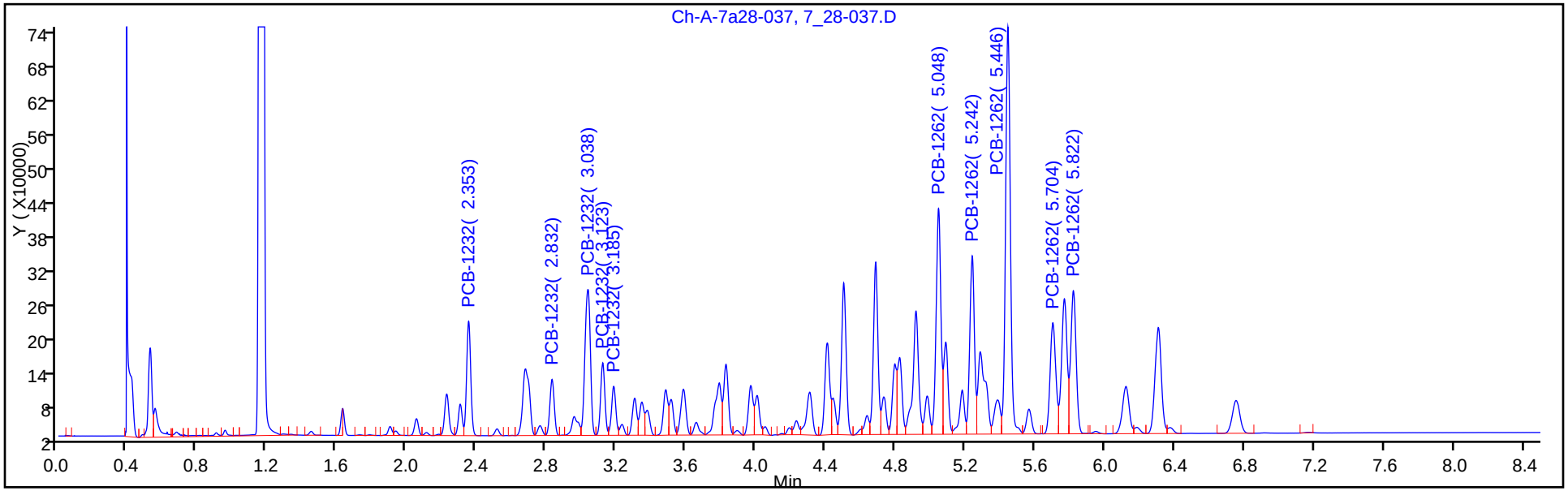
Report Date: 29-Mar-2017 10:55:05 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

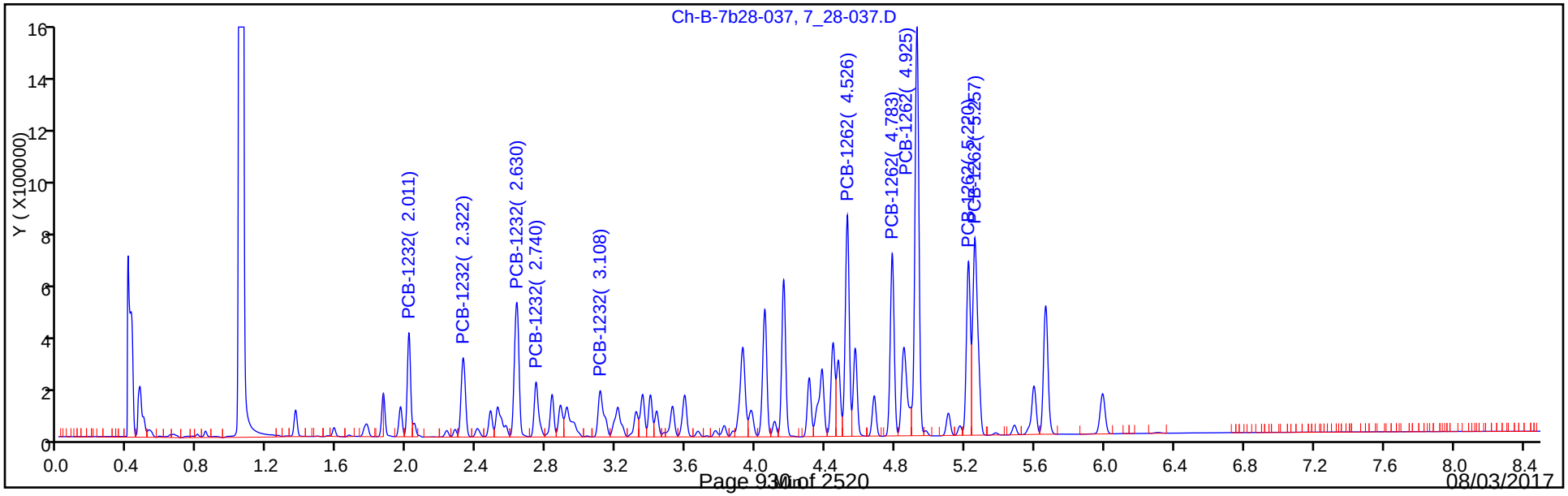
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date:	28-Mar-2017 17:15:44	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 17:31:48 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:09 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:06:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13895818	0.5000	0.5000	
2	1.049	1.049	0.000	25650662	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.355	2.355	0.000	17402	0.0200	0.0186	
1	2.834	2.834	0.000	9674	0.0200	0.0188	M
1	3.039	3.039	0.000	28820	0.0200	0.0196	M
1	3.126	3.126	0.000	14529	0.0200	0.0194	M
1	3.187	3.187	0.000	7700	0.0200	0.0194	M
		Average of Peak Amounts =				0.0192	
2	2.011	2.011	0.000	31396	0.0200	0.0184	
2	2.322	2.322	0.000	29932	0.0200	0.0186	M
2	2.628	2.628	0.000	55166	0.0200	0.0194	M
2	2.739	2.739	0.000	20022	0.0200	0.0189	M
2	3.108	3.108	0.000	20949	0.0200	0.0190	M
		Average of Peak Amounts =				0.0189	
						RPD = 1.48	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.050	5.050	0.000	38246	0.0200	0.0200	M
1	5.243	5.243	0.000	30264	0.0200	0.0201	M
1	5.448	5.448	0.000	66533	0.0200	0.0202	M
1	5.706	5.706	0.000	24137	0.0200	0.0200	M
1	5.823	5.823	0.000	28917	0.0200	0.0201	M
		Average of Peak Amounts =				0.0201	
2	4.526	4.526	0.000	63453	0.0200	0.0201	M
2	4.783	4.783	0.000	51373	0.0200	0.0199	M
2	4.925	4.925	0.000	104710	0.0200	0.0205	M
2	5.220	5.220	0.000	44964	0.0200	0.0203	M
2	5.256	5.256	0.000	65124	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00005 Amount Added: 0.25 Units: mL

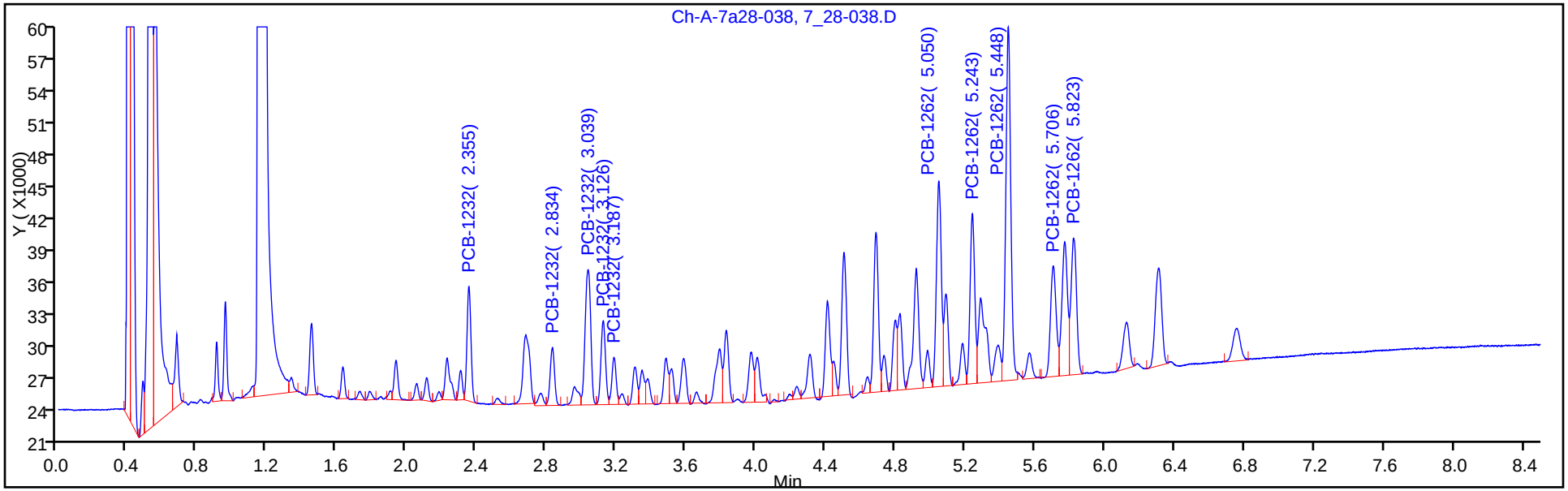
Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

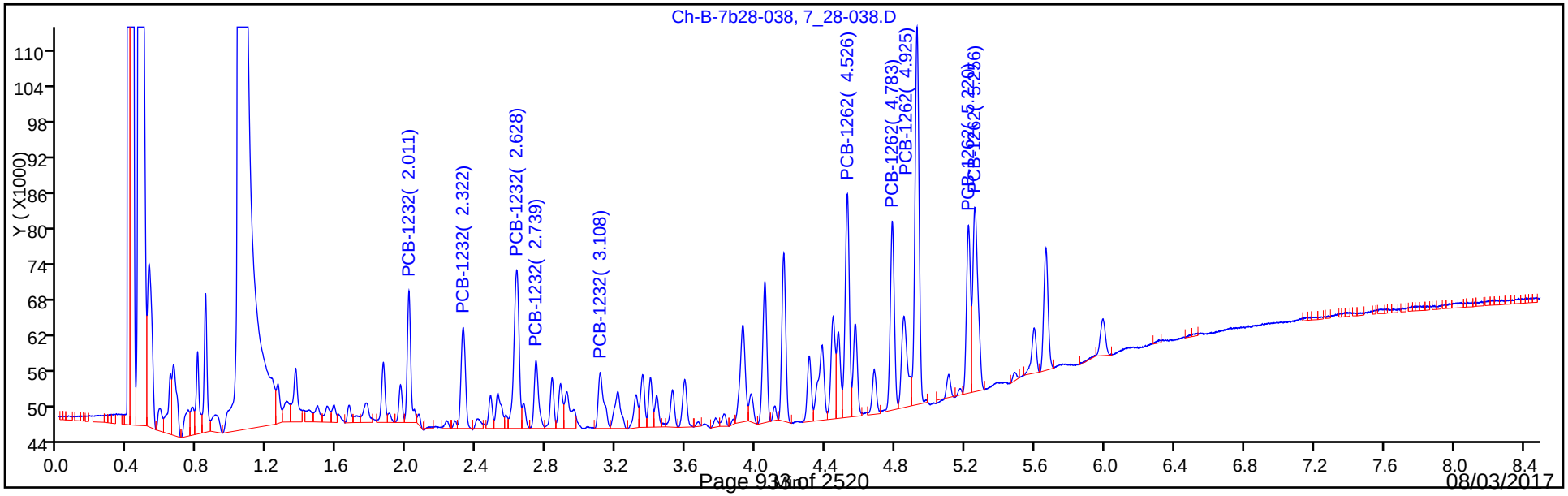
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date:	28-Mar-2017 17:31:48	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

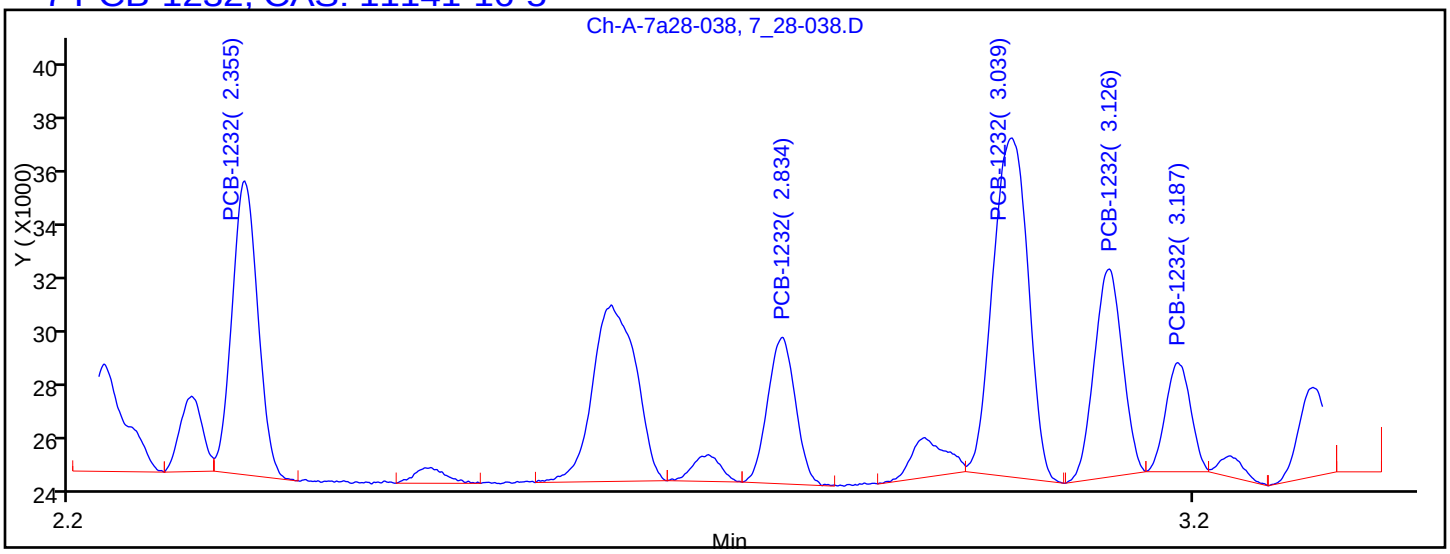
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

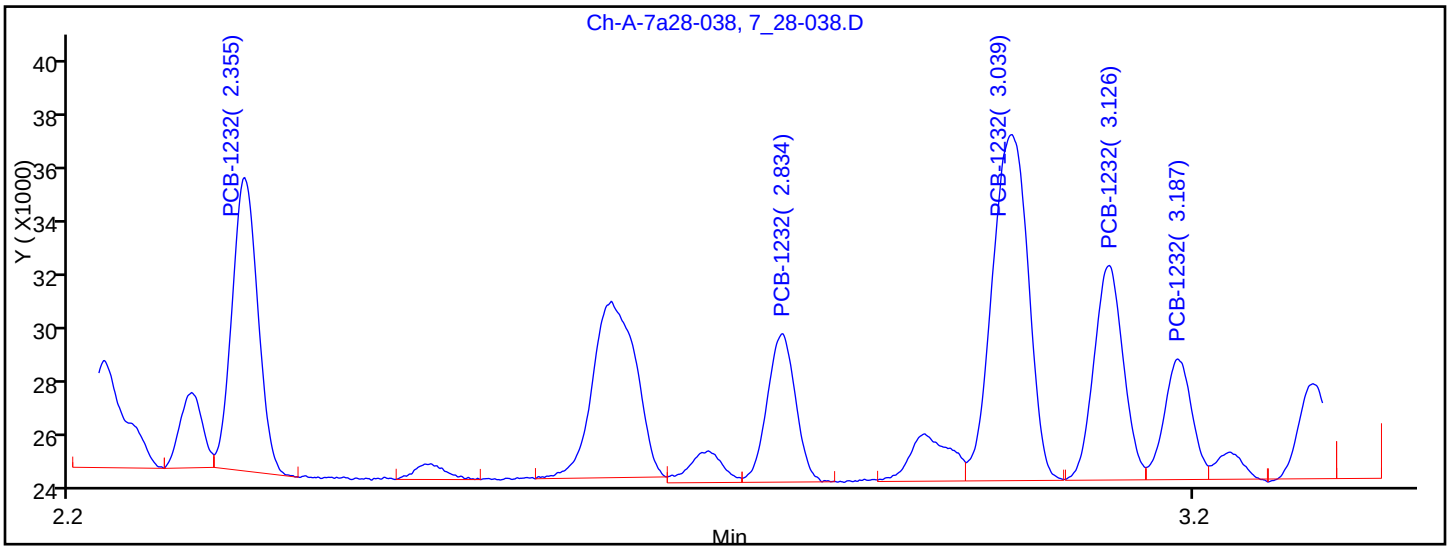
Column: Detector Ch-A-7A136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.355	Response = 17402
2.834	Response = 9355
3.039	Response = 27463
3.126	Response = 13519
3.187	Response = 6260



Manual Integration Results

2.355	Response = 17402	
2.834	Response = 9674	M
3.039	Response = 28820	M
3.126	Response = 14529	M
3.187	Response = 7700	M

Reviewer: owenj, 28-Mar-2017 17:51:16

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

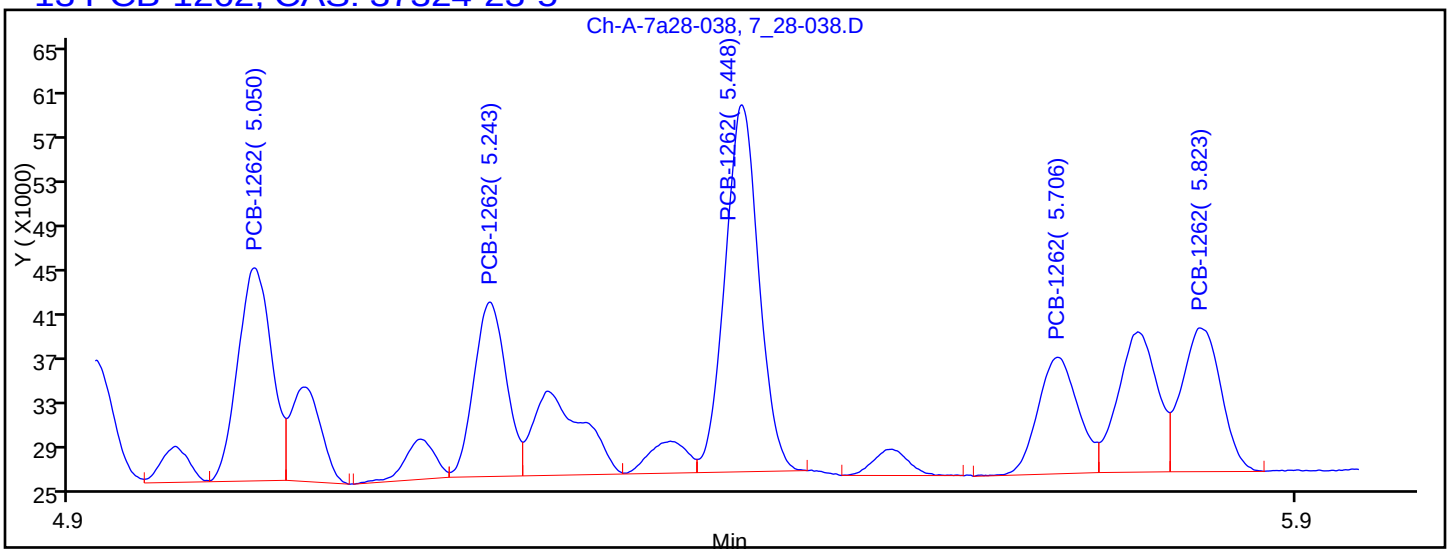
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

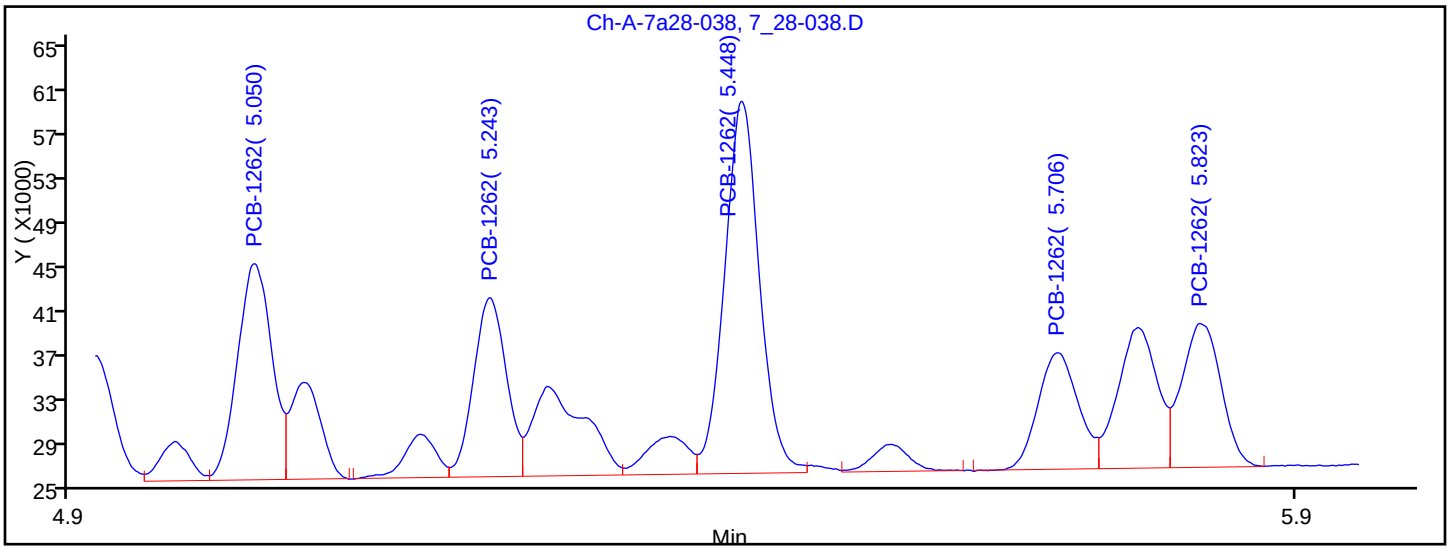
Column: Detector Ch-A-7A136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

5.050	Response = 36943
5.243	Response = 28597
5.448	Response = 63333
5.706	Response = 24131
5.823	Response = 28724



Manual Integration Results

5.050	Response = 38246	M
5.243	Response = 30264	M
5.448	Response = 66533	M
5.706	Response = 24137	M
5.823	Response = 28917	M

Reviewer: owenj, 28-Mar-2017 17:51:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30049

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	0.0306	0.0200	0.0173			Lin1	0.0003	0.0176							0.9970		0.9900
PCB-1232 Peak 2	0.0292	0.0199	0.0175			Lin1	0.0003	0.0178							0.9980		0.9900
PCB-1232 Peak 3	0.0538	0.0361	0.0337			Lin1	0.0004	0.0338							1.0000		0.9900
PCB-1232 Peak 4	0.0195	0.0142	0.0128			Lin1	0.0001	0.0130							0.9990		0.9900
PCB-1232 Peak 5	0.0204	0.0155	0.0142			Lin1	0.0001	0.0143							0.9990		0.9900
PCB-1262 Peak 1	0.0618	0.0511	0.0511			Lin1	0.0002	0.0509							1.0000		0.9900
PCB-1262 Peak 2	0.0501	0.0413	0.0407			Lin1	0.0002	0.0407							1.0000		0.9900
PCB-1262 Peak 3	0.1021	0.0949	0.0988			Lin1	0	0.0980							1.0000		0.9900
PCB-1262 Peak 4	0.0438	0.0409	0.0417			Lin1	0	0.0415							1.0000		0.9900
PCB-1262 Peak 5	0.0635	0.0585	0.0603			Lin1	0	0.0599							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30049

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	31396	517419	1750185			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	29932	514104	1769313			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	55166	932095	3407079			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	20022	365995	1296867			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	20949	401062	1434330			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Lin1	63453	1320211	5167503			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	51373	1068273	4115805			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Lin1	104710	2452156	9998675			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Lin1	44964	1056100	4214950			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Lin1	65124	1512599	6104175			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 16:59:49 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:32:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14046745	0.5000	0.5000	
2	1.050	1.048	0.002	25289938	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.354	2.355	-0.001	1168343	2.00	1.96	
1	2.833	2.834	-0.002	610530	2.00	1.96	
1	3.039	3.039	0.000	2131860	2.00	1.99	
1	3.124	3.126	-0.002	800272	2.00	1.98	
1	3.187	3.187	0.000	555432	2.00	1.98	
		Average of Peak Amounts =				1.97	
2	2.012	2.011	0.001	1750185	2.00	1.95	M
2	2.323	2.322	0.000	1769313	2.00	1.96	a
2	2.630	2.628	0.002	3407079	2.00	1.98	a
2	2.740	2.739	0.001	1296867	2.00	1.97	a
2	3.108	3.108	0.000	1434330	2.00	1.97	a
		Average of Peak Amounts =				1.96	
						RPD = 0.46	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	5.049	5.050	-0.001	2976769	2.00	2.00	a
1	5.242	5.243	0.000	2314069	2.00	2.00	a
1	5.448	5.448	0.000	5491646	2.00	2.01	a
1	5.706	5.706	0.000	1743461	2.00	2.00	a
1	5.823	5.823	0.000	2172970	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	4.525	4.526	-0.001	5167503	2.00	2.00	a
2	4.783	4.783	0.000	4115805	2.00	2.00	
2	4.925	4.925	0.000	9998675	2.00	2.02	a
2	5.220	5.220	0.000	4214950	2.00	2.01	a
2	5.257	5.256	0.001	6104175	2.00	2.01	a
		Average of Peak Amounts =				2.01	
						RPD = 0.23	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00005 Amount Added: 0.25 Units: mL

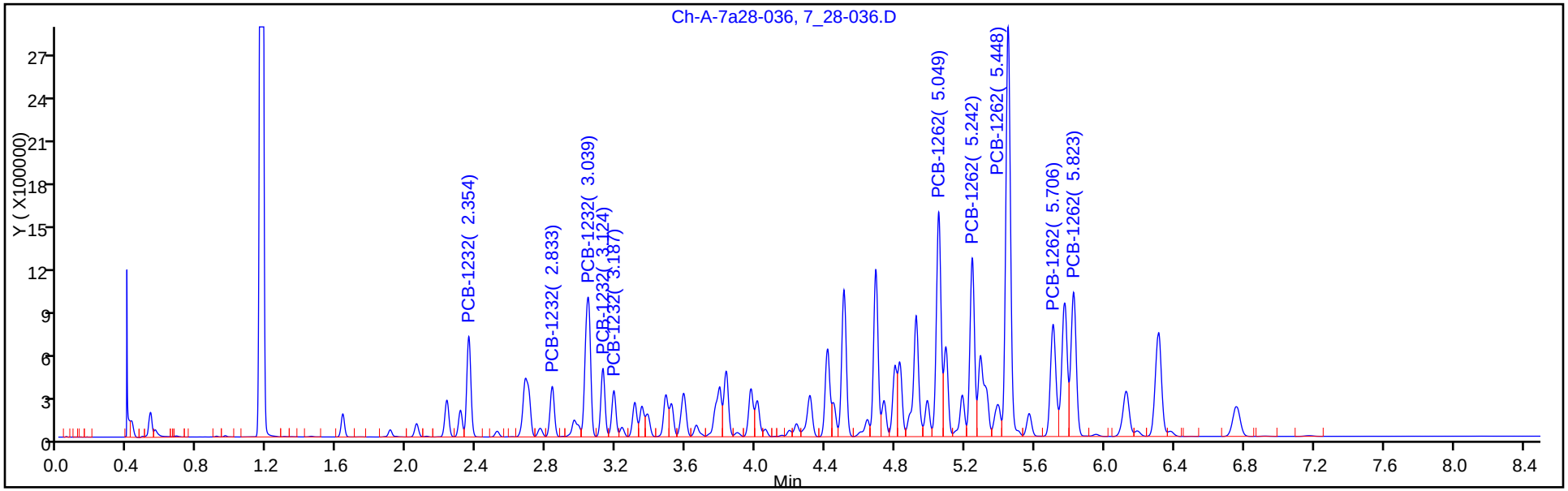
Report Date: 29-Mar-2017 10:55:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

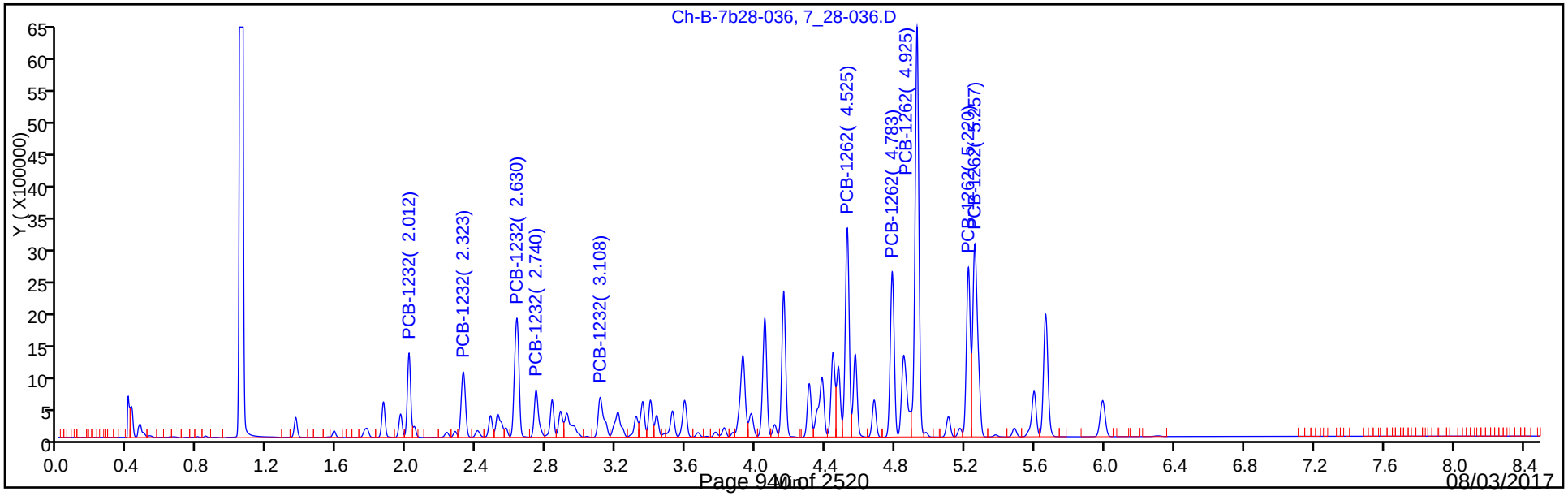
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D

Injection Date:	28-Mar-2017 16:59:49	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D

Injection Date: 28-Mar-2017 16:59:49 Instrument ID: HP6890-7

Lims ID: IC 3

Client ID:

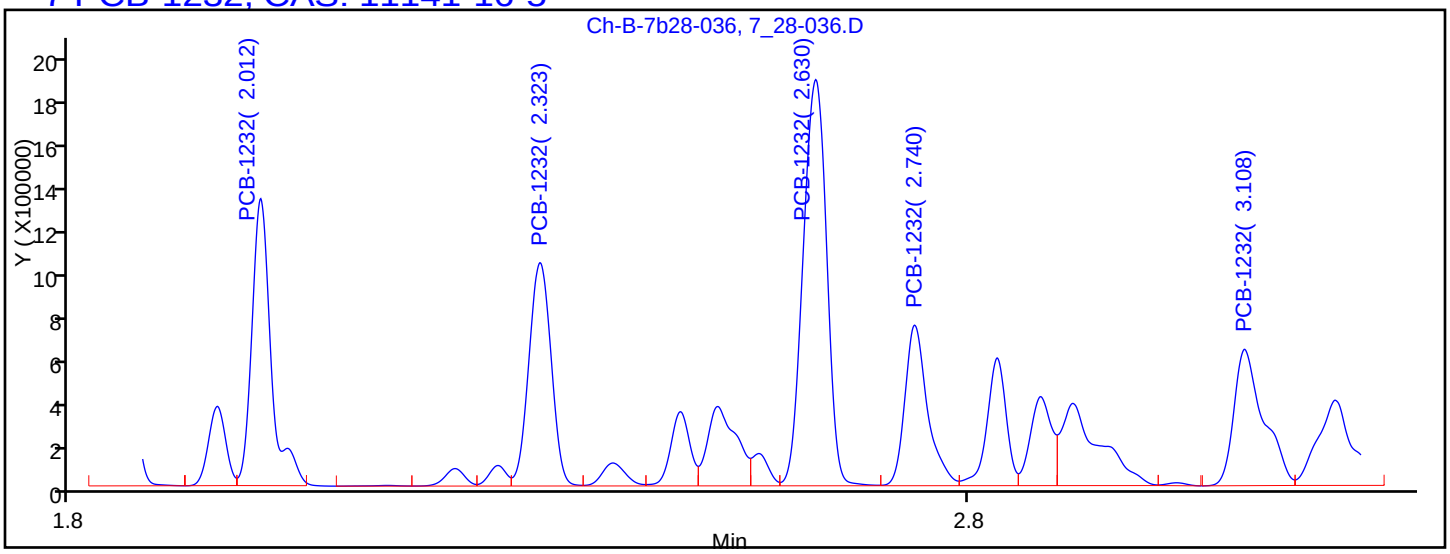
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

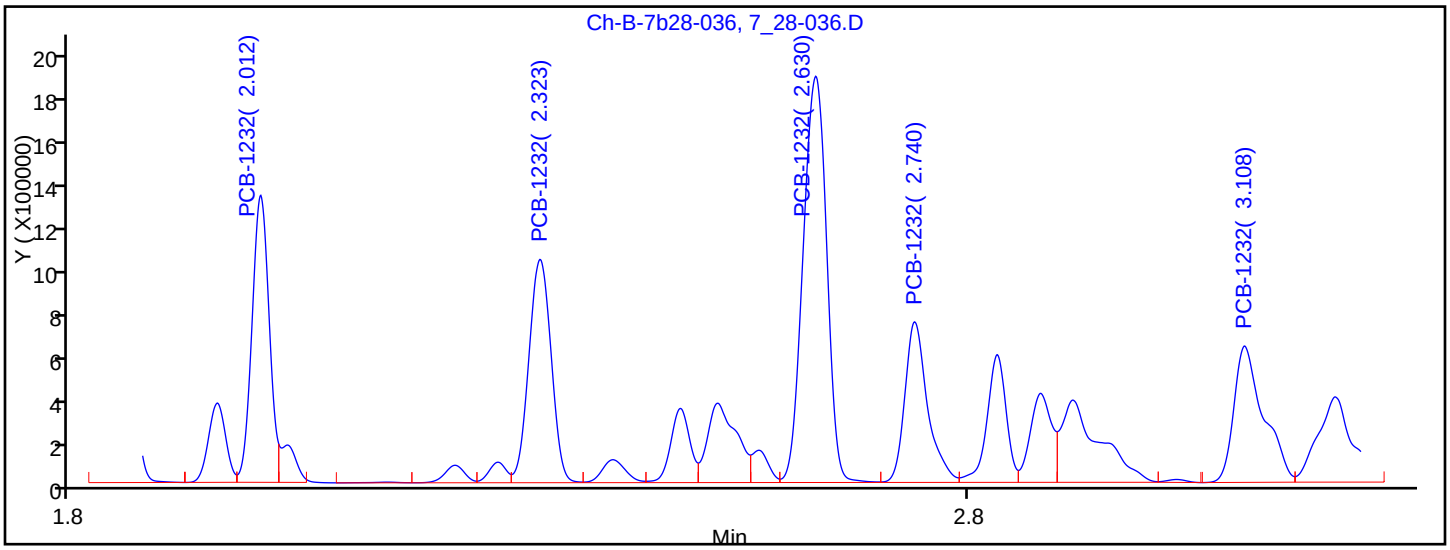
Column: Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.012	Response = 1962269
2.323	Response = 1769313
2.630	Response = 3407079
2.740	Response = 1296867
3.108	Response = 1434330



Manual Integration Results

2.012	Response = 1750185	M
2.323	Response = 1769313	M
2.630	Response = 3407079	M
2.740	Response = 1296867	M
3.108	Response = 1434330	M

Reviewer: owenj, 28-Mar-2017 17:40:19

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 17:15:44 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:05 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:41:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.165	1.167	-0.002	14250344	0.5000	0.5000	
2	1.049	1.048	0.001	25851508	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.353	2.355	-0.002	334911	0.5000	0.5449	
1	2.832	2.834	-0.002	173804	0.5000	0.5409	
1	3.038	3.039	-0.001	565414	0.5000	0.5137	
1	3.123	3.126	-0.004	218513	0.5000	0.5204	
1	3.185	3.187	-0.002	149292	0.5000	0.5188	
		Average of Peak Amounts =				0.5277	
2	2.011	2.011	0.000	517419	0.5000	0.5522	M
2	2.322	2.322	0.000	514104	0.5000	0.5457	M
2	2.630	2.628	0.002	932095	0.5000	0.5208	M
2	2.740	2.739	0.001	365995	0.5000	0.5348	M
2	3.108	3.108	0.000	401062	0.5000	0.5318	M
		Average of Peak Amounts =				0.5370	
						RPD = 1.75	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.048	5.050	-0.002	760515	0.5000	0.4993	
1	5.242	5.243	0.000	588139	0.5000	0.4969	
1	5.446	5.448	-0.002	1384220	0.5000	0.4948	
1	5.704	5.706	-0.002	448320	0.5000	0.5007	
1	5.822	5.823	0.000	550434	0.5000	0.4953	
		Average of Peak Amounts =				0.4974	
2	4.526	4.526	0.000	1320211	0.5000	0.4973	M
2	4.783	4.783	0.000	1068273	0.5000	0.5034	M
2	4.925	4.925	0.000	2452156	0.5000	0.4835	M
2	5.220	5.220	0.000	1056100	0.5000	0.4916	M
2	5.257	5.256	0.001	1512599	0.5000	0.4872	M
		Average of Peak Amounts =				0.4926	
						RPD = 0.97	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00008 Amount Added: 0.25 Units: mL

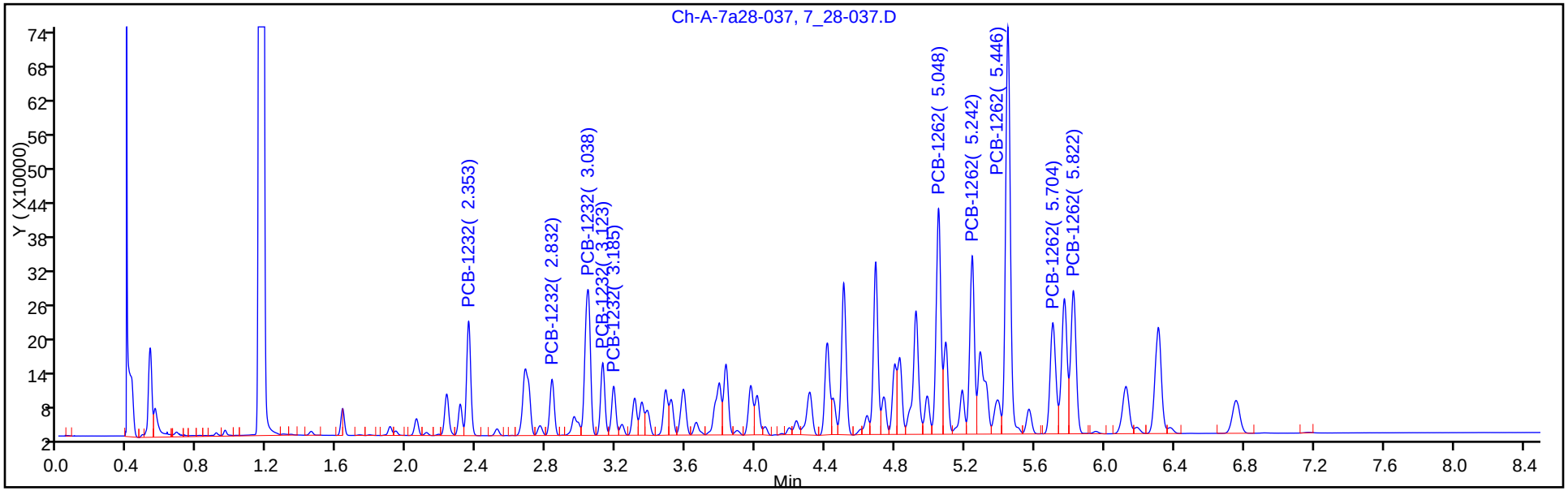
Report Date: 29-Mar-2017 10:55:06 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

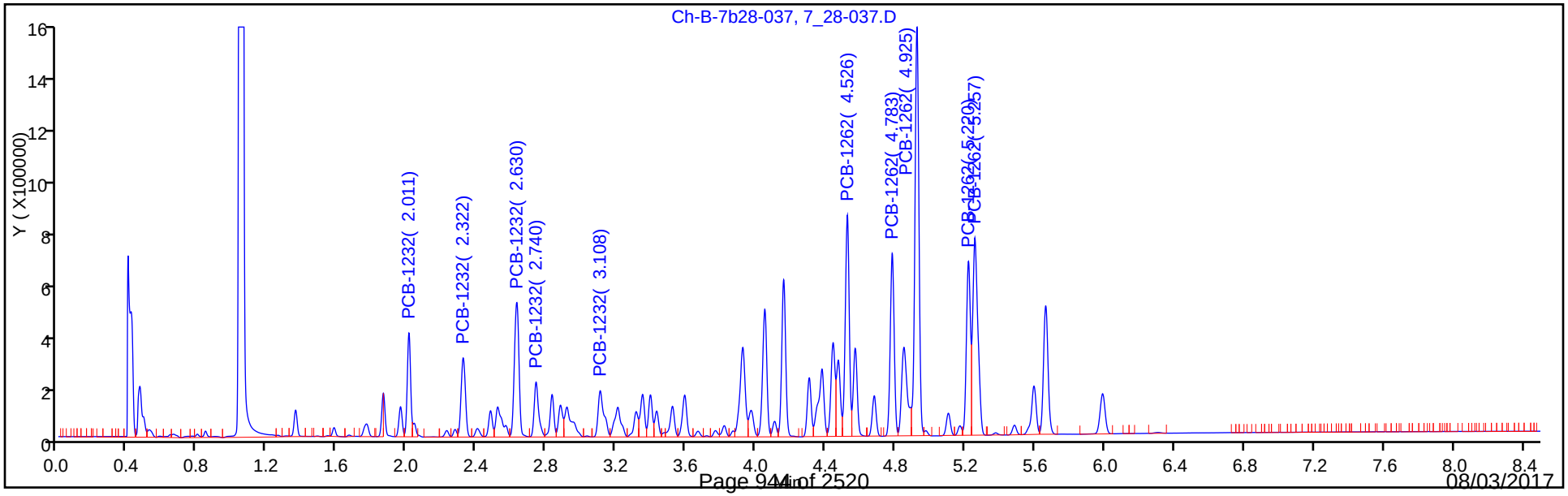
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date:	28-Mar-2017 17:15:44	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:06 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date: 28-Mar-2017 17:15:44 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

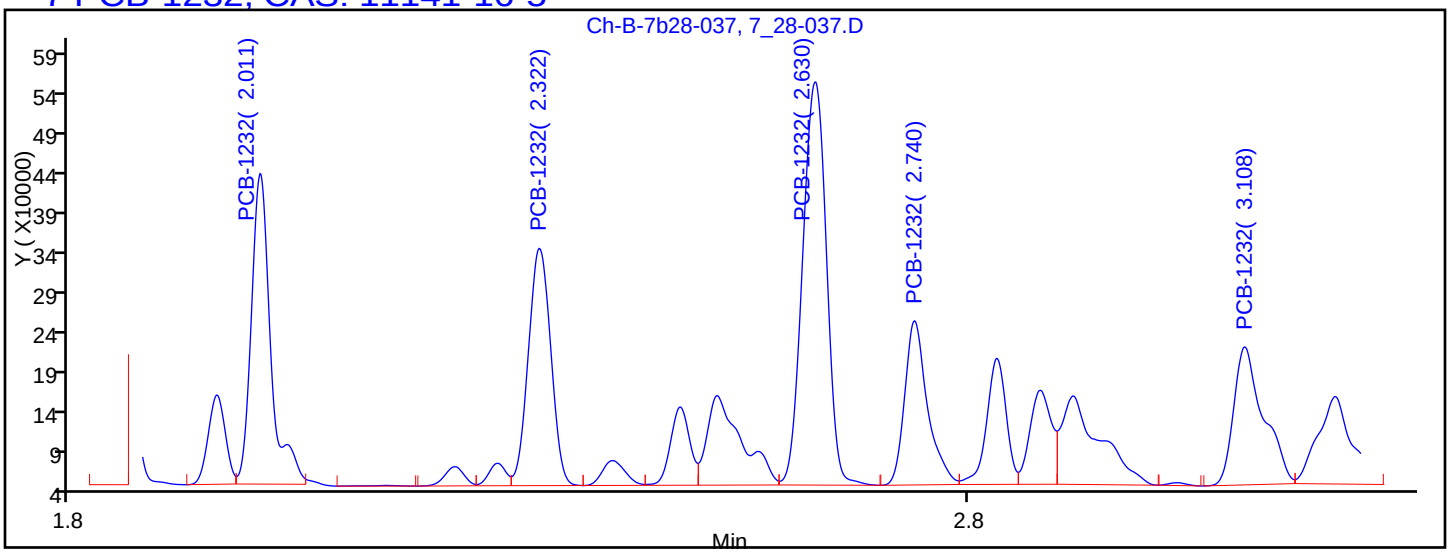
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

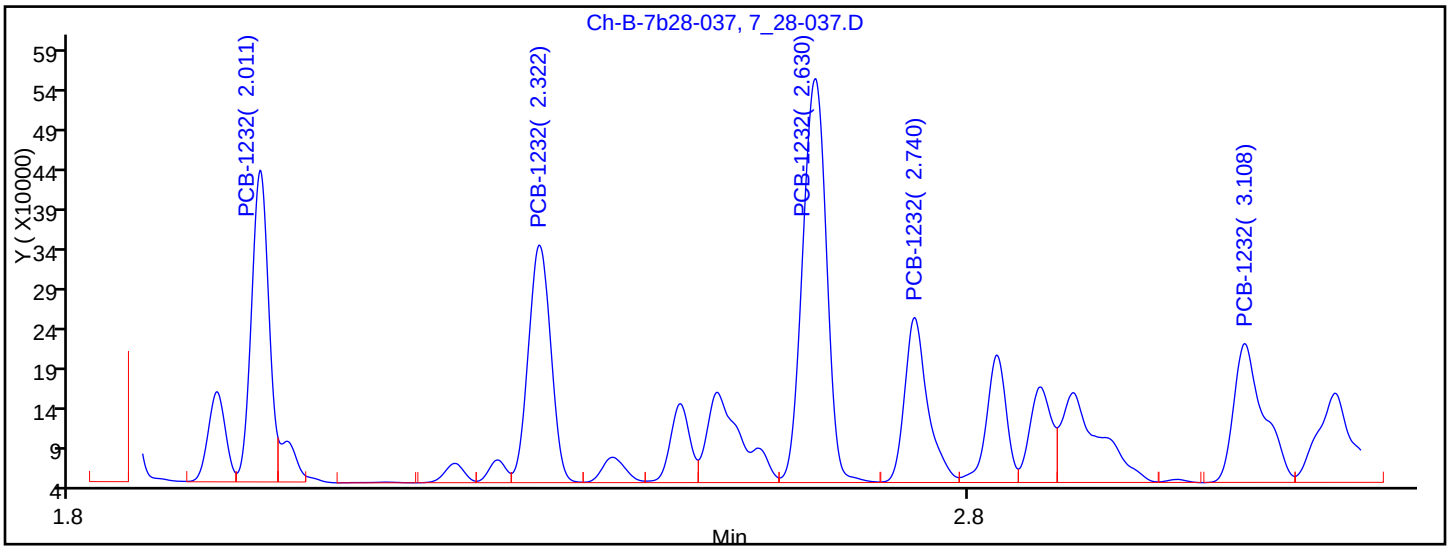
Column: Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.011	Response = 577204
2.322	Response = 512141
2.630	Response = 926169
2.740	Response = 360028
3.108	Response = 394142



Manual Integration Results

2.011	Response = 517419	M
2.322	Response = 514104	M
2.630	Response = 932095	M
2.740	Response = 365995	M
3.108	Response = 401062	M

Reviewer: owenj, 28-Mar-2017 17:41:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:06 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date: 28-Mar-2017 17:15:44 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

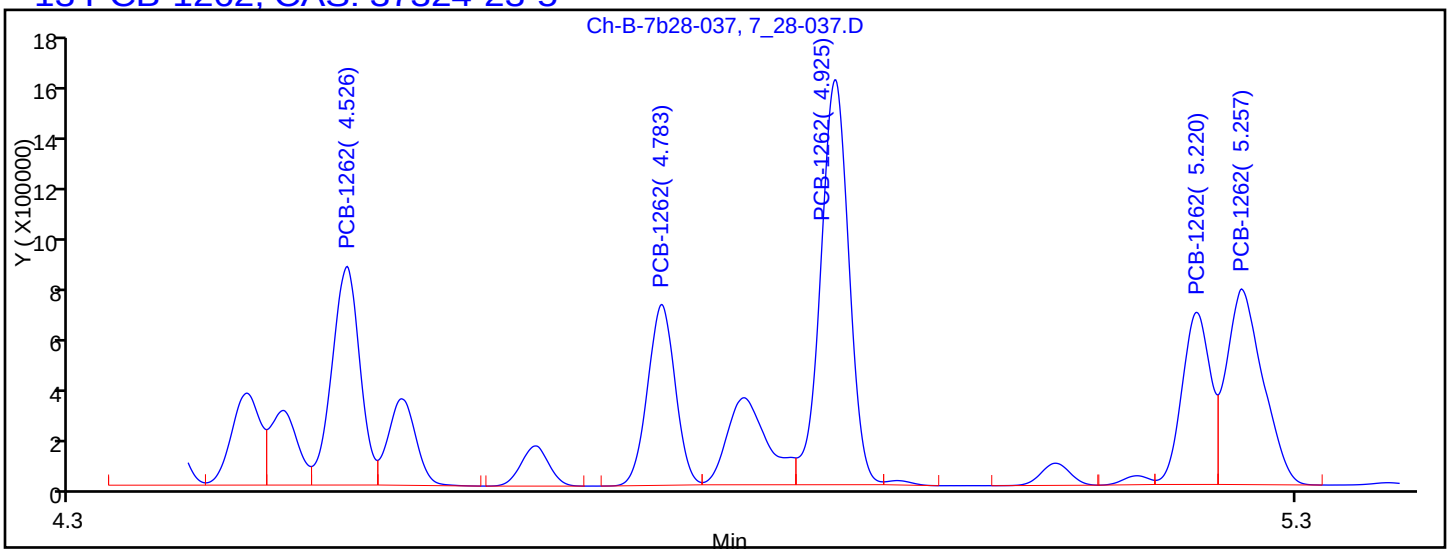
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

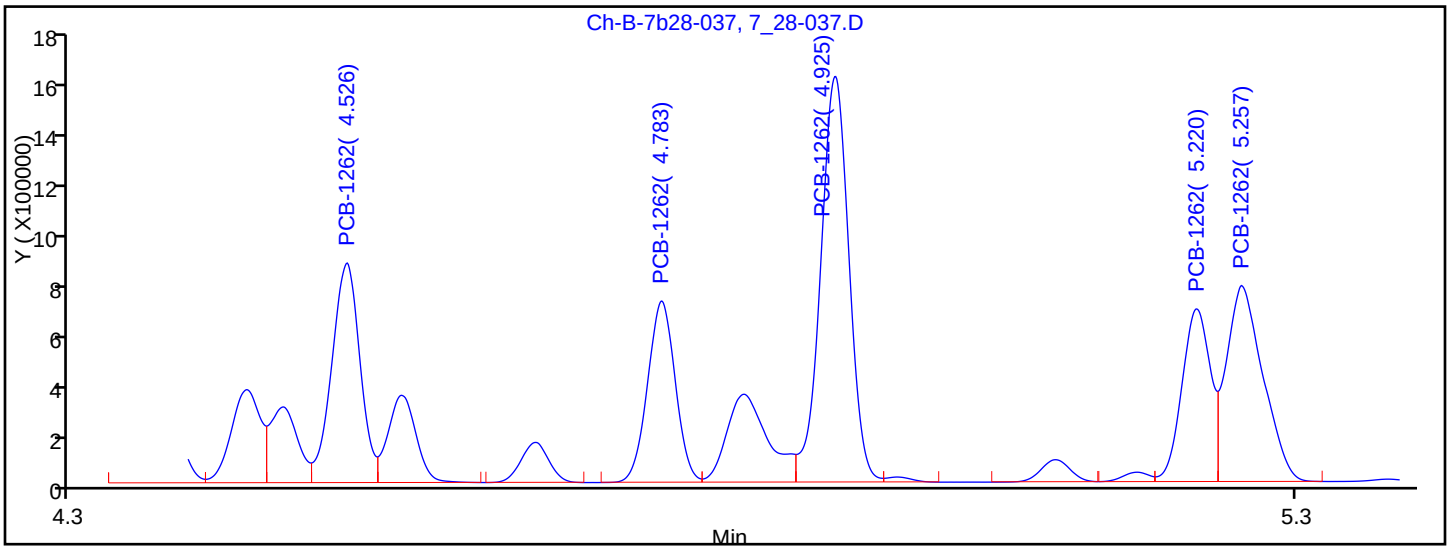
Column: Detector Ch-B-7b136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.526	Response = 1307081
4.783	Response = 1063122
4.925	Response = 2439406
5.220	Response = 1048986
5.257	Response = 1508361



Manual Integration Results

4.526	Response = 1320211	M
4.783	Response = 1068273	M
4.925	Response = 2452156	M
5.220	Response = 1056100	M
5.257	Response = 1512599	M

Reviewer: owenj, 28-Mar-2017 17:41:21

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 17:31:48 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:09 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:06:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13895818	0.5000	0.5000	
2	1.049	1.049	0.000	25650662	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.355	2.355	0.000	17402	0.0200	0.0186	
1	2.834	2.834	0.000	9674	0.0200	0.0188	M
1	3.039	3.039	0.000	28820	0.0200	0.0196	M
1	3.126	3.126	0.000	14529	0.0200	0.0194	M
1	3.187	3.187	0.000	7700	0.0200	0.0194	M
		Average of Peak Amounts =				0.0192	
2	2.011	2.011	0.000	31396	0.0200	0.0184	
2	2.322	2.322	0.000	29932	0.0200	0.0186	M
2	2.628	2.628	0.000	55166	0.0200	0.0194	M
2	2.739	2.739	0.000	20022	0.0200	0.0189	M
2	3.108	3.108	0.000	20949	0.0200	0.0190	M
		Average of Peak Amounts =				0.0189	
						RPD = 1.48	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.050	5.050	0.000	38246	0.0200	0.0200	M
1	5.243	5.243	0.000	30264	0.0200	0.0201	M
1	5.448	5.448	0.000	66533	0.0200	0.0202	M
1	5.706	5.706	0.000	24137	0.0200	0.0200	M
1	5.823	5.823	0.000	28917	0.0200	0.0201	M
		Average of Peak Amounts =				0.0201	
2	4.526	4.526	0.000	63453	0.0200	0.0201	M
2	4.783	4.783	0.000	51373	0.0200	0.0199	M
2	4.925	4.925	0.000	104710	0.0200	0.0205	M
2	5.220	5.220	0.000	44964	0.0200	0.0203	M
2	5.256	5.256	0.000	65124	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00005 Amount Added: 0.25 Units: mL

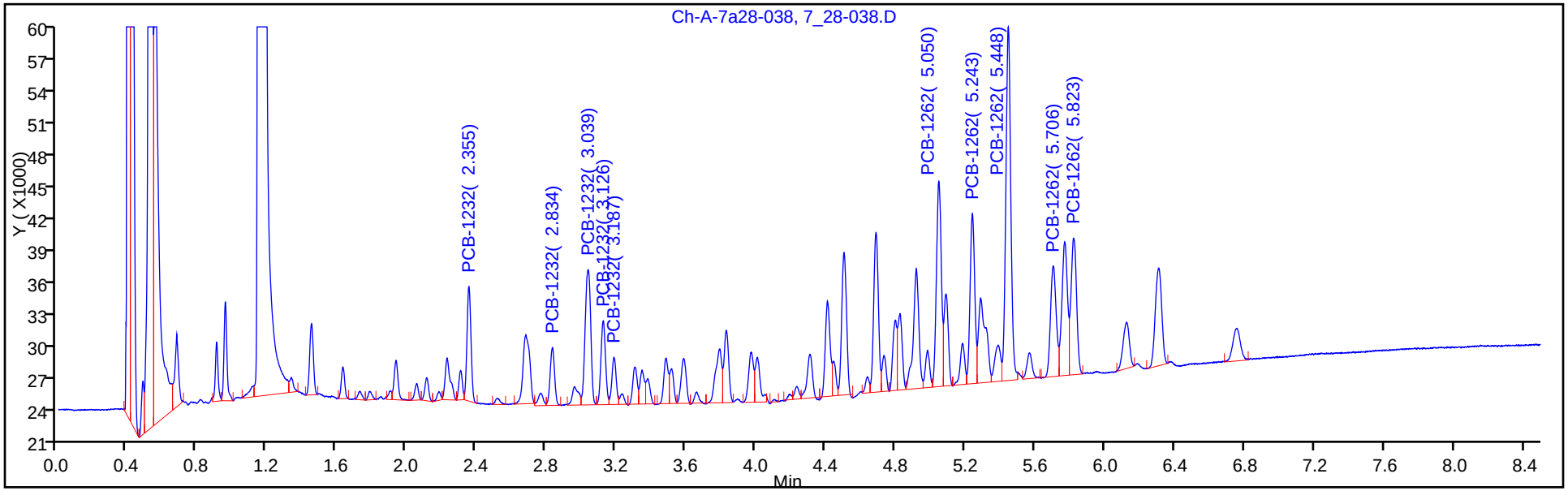
Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

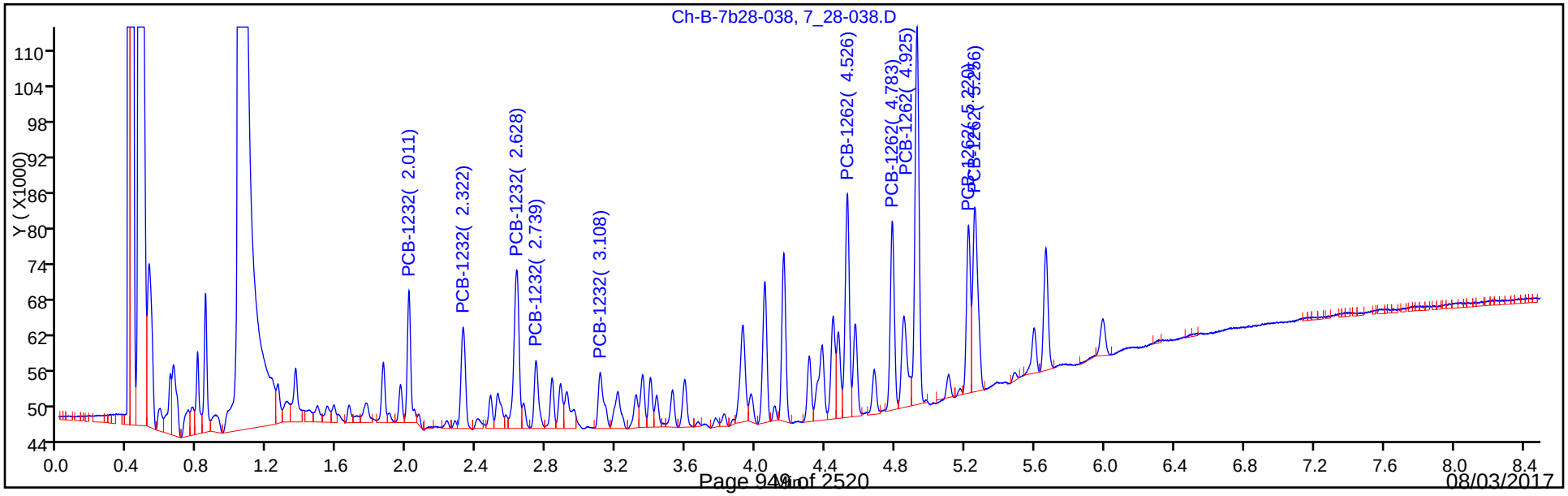
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date:	28-Mar-2017 17:31:48	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

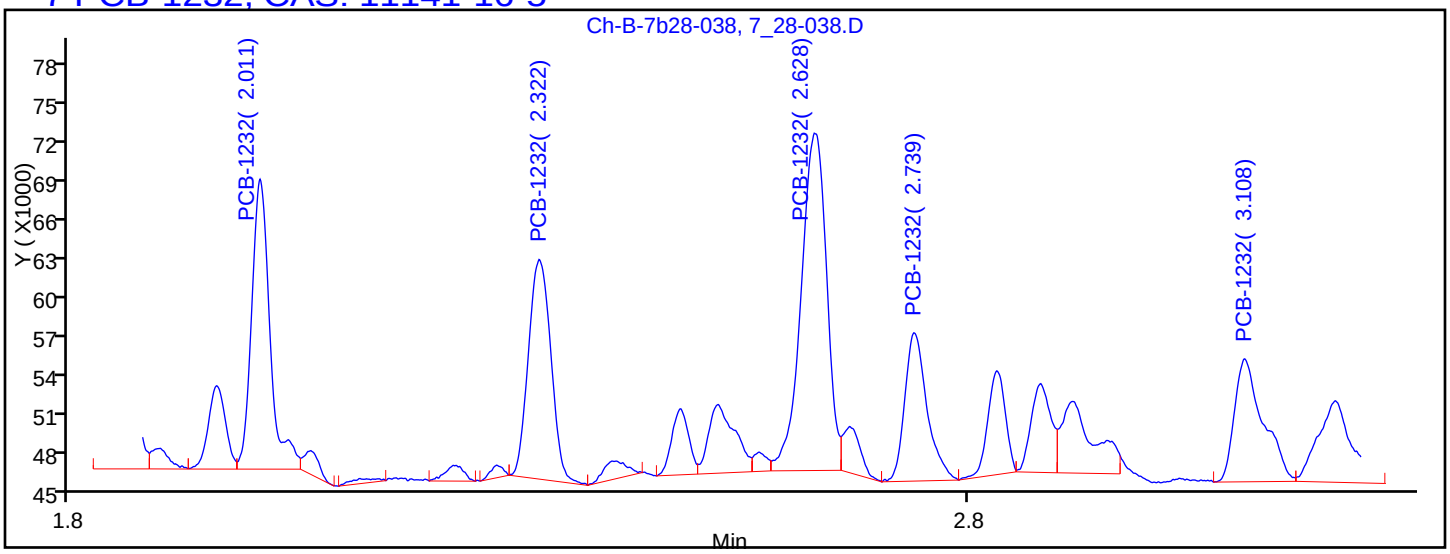
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

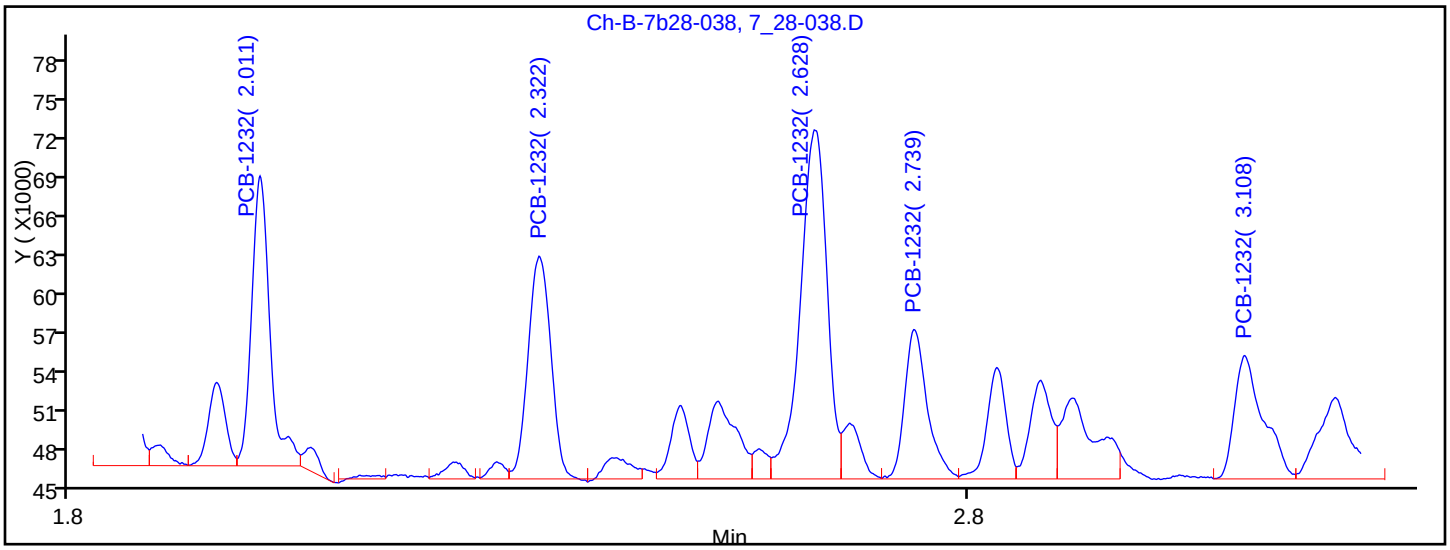
Column: Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.011	Response = 31396
2.322	Response = 29165
2.628	Response = 51011
2.739	Response = 19530
3.108	Response = 20745



Manual Integration Results

2.011	Response = 31396	
2.322	Response = 29932	M
2.628	Response = 55166	M
2.739	Response = 20022	M
3.108	Response = 20949	M

Reviewer: owenj, 28-Mar-2017 17:51:31

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

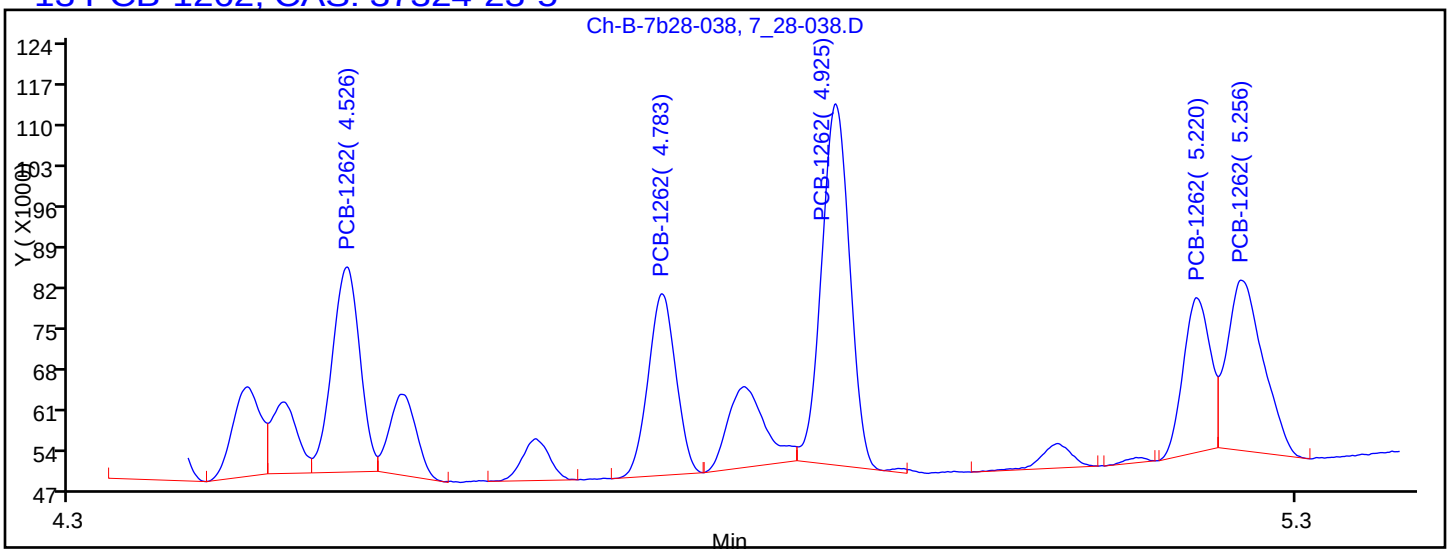
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

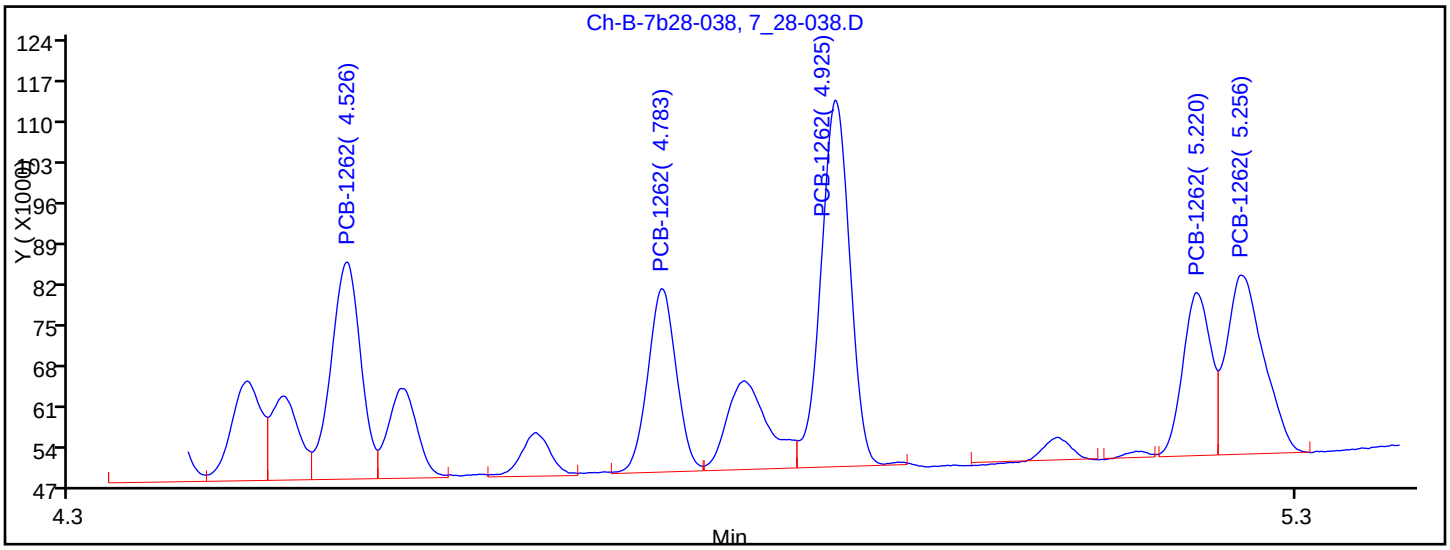
Column: Detector Ch-B-7b136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.526	Response = 55928
4.783	Response = 49130
4.925	Response = 99537
5.220	Response = 41021
5.256	Response = 60082



Manual Integration Results

4.526	Response = 63453	M
4.783	Response = 51373	M
4.925	Response = 104710	M
5.220	Response = 44964	M
5.256	Response = 65124	M

Reviewer: owenj, 28-Mar-2017 17:51:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	0.0890	0.0709	0.0666			Lin1	0.0005	0.0670							1.0000		0.9900
PCB-1242 Peak 2	0.0486	0.0265	0.0247			Lin1	0.0005	0.0246							1.0000		0.9900
PCB-1242 Peak 3	0.0322	0.0198	0.0190			Lin1	0.0003	0.0189							1.0000		0.9900
PCB-1242 Peak 4	0.0311	0.0237	0.0225			Lin1	0.0002	0.0226							1.0000		0.9900
PCB-1242 Peak 5	0.0414	0.0333	0.0321			Lin1	0.0002	0.0322							1.0000		0.9900
PCB-1268 Peak 1	0.1554	0.1075	0.1066			Lin1	0.0010	0.1060							1.0000		0.9900
PCB-1268 Peak 2	0.1449	0.0978	0.0989			Lin1	0.0009	0.0979							1.0000		0.9900
PCB-1268 Peak 3	0.1484	0.0820	0.0822			Lin1	0.0013	0.0811							1.0000		0.9900
PCB-1268 Peak 4	0.0630	0.0377	0.0366			Lin1	0.0005	0.0364							1.0000		0.9900
PCB-1268 Peak 5	0.3629	0.2657	0.2663			Lin1	0.0019	0.2647							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	45024	988715	3730845			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	24575	370241	1381712			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	16297	276130	1064743			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	15761	331038	1259668			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	20943	464108	1801893			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Lin1	78633	1500432	5975368			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Lin1	73321	1364645	5541707			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Lin1	75079	1144877	4607641			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Lin1	31871	526604	2051179			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Lin1	183632	3708198	14926402			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 18:03:31 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:20 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:28:23

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14011659	0.5000	0.5000	
2	1.049	1.049	0.000	25753742	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.037	3.038	-0.001	3730845	2.00	1.98	a
1	3.123	3.126	-0.003	1381712	2.00	1.98	a
1	3.484	3.486	-0.002	1064743	2.00	1.99	a
1	3.587	3.588	-0.001	1259668	2.00	1.98	a
1	3.792	3.793	-0.001	1801893	2.00	1.99	a
		Average of Peak Amounts =				1.99	
2	2.630	2.631	-0.001	6001083	2.00	1.98	
2	2.740	2.743	-0.003	2261171	2.00	1.99	
2	3.108	3.110	-0.002	2736567	2.00	1.98	
2	3.351	3.346	0.005	1921262	2.00	2.06	a
2	3.396	3.397	-0.001	1766998	2.00	1.99	a
		Average of Peak Amounts =				2.00	
						RPD = 0.77	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	5975368	2.00	2.00	a
1	5.822	5.823	0.000	5541707	2.00	2.01	a
1	6.107	6.108	-0.001	4607641	2.00	2.01	a
1	6.309	6.310	-0.001	2051179	2.00	2.00	a
1	6.757	6.758	-0.001	14926402	2.00	2.01	a
		Average of Peak Amounts =				2.00	
2	5.220	5.220	0.000	11132269	2.00	2.02	a
2	5.259	5.258	0.001	10240144	2.00	2.02	a
2	5.483	5.485	-0.002	8678923	2.00	2.02	a
2	5.664	5.665	-0.001	3712088	2.00	2.04	a
2	5.991	5.990	0.001	29910422	2.00	2.03	a
		Average of Peak Amounts =				2.03	
						RPD = 1.06	

Reagents:

42-68w/IS@2.0_00005 Amount Added: 0.25 Units: mL

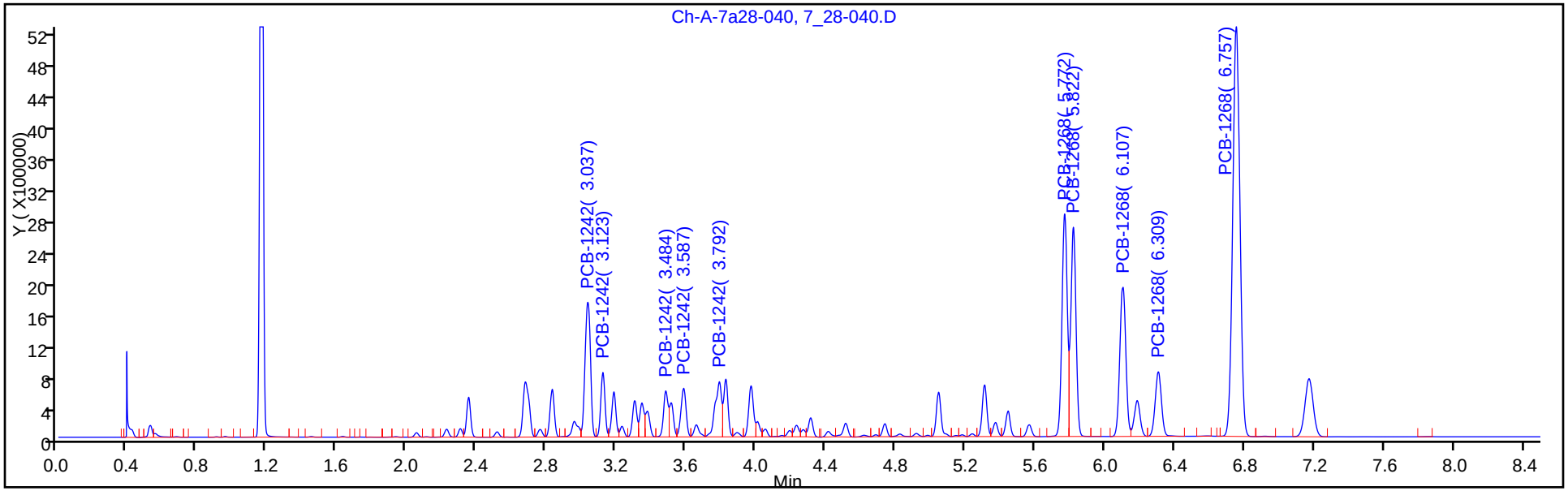
Report Date: 29-Mar-2017 10:55:20 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

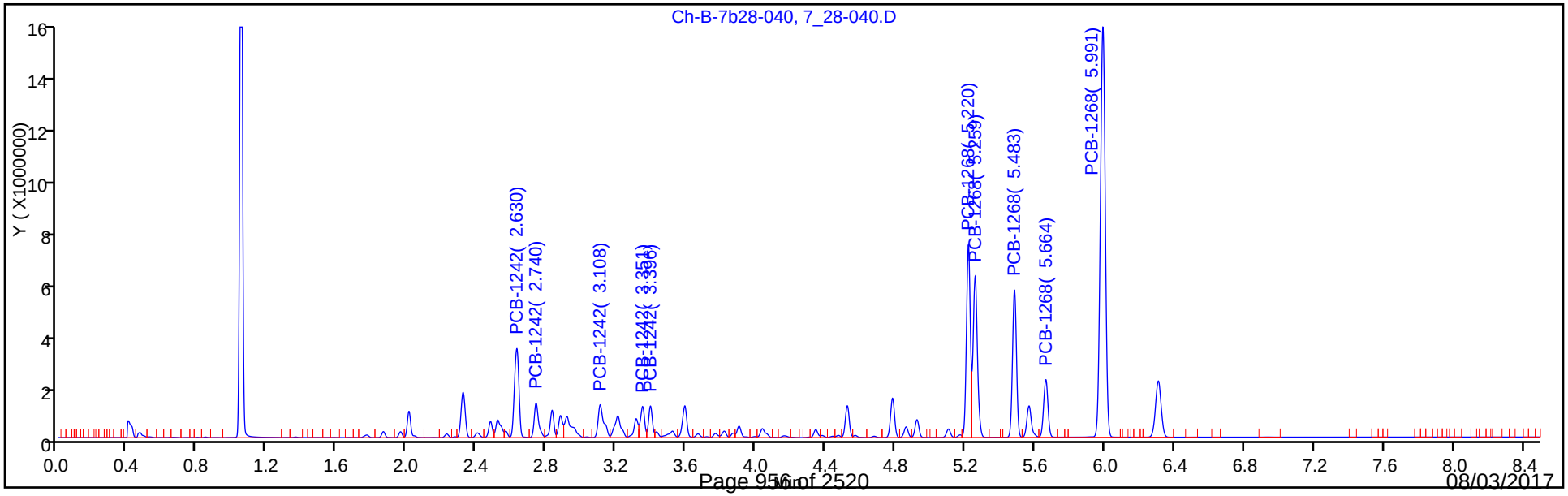
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D

Injection Date:	28-Mar-2017 18:03:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 18:19:33 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:24 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:26:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	13954704	0.5000	0.5000	
2	1.050	1.049	0.001	25885897	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.038	3.038	0.000	988715	0.5000	0.5214	
1	3.123	3.126	-0.004	370241	0.5000	0.5186	
1	3.484	3.486	-0.002	276130	0.5000	0.5082	
1	3.587	3.588	-0.001	331038	0.5000	0.5173	
1	3.792	3.793	-0.001	464108	0.5000	0.5102	
		Average of Peak Amounts =				0.5151	
2	2.630	2.631	-0.001	1589338	0.5000	0.5157	
2	2.741	2.743	-0.002	603453	0.5000	0.5096	
2	3.109	3.110	-0.001	728642	0.5000	0.5190	
2	3.353	3.346	0.006	447304	0.5000	0.4384	
2	3.397	3.397	0.000	464875	0.5000	0.5139	
		Average of Peak Amounts =				0.4993	
						RPD = 3.12	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	1500432	0.5000	0.4979	
1	5.823	5.823	0.000	1364645	0.5000	0.4899	
1	6.105	6.108	-0.003	1144877	0.5000	0.4894	
1	6.310	6.310	0.000	526604	0.5000	0.5037	
1	6.758	6.758	0.000	3708198	0.5000	0.4947	
		Average of Peak Amounts =				0.4951	
2	5.221	5.220	0.001	2662043	0.5000	0.4792	
2	5.259	5.258	0.001	2453043	0.5000	0.4804	
2	5.484	5.485	-0.001	2066721	0.5000	0.4772	
2	5.664	5.665	-0.001	901567	0.5000	0.4639	
2	5.991	5.990	0.001	6947966	0.5000	0.4651	
		Average of Peak Amounts =				0.4732	
						RPD = 4.53	

Reagents:

42-68w/IS@0.5_00008 Amount Added: 0.25 Units: mL

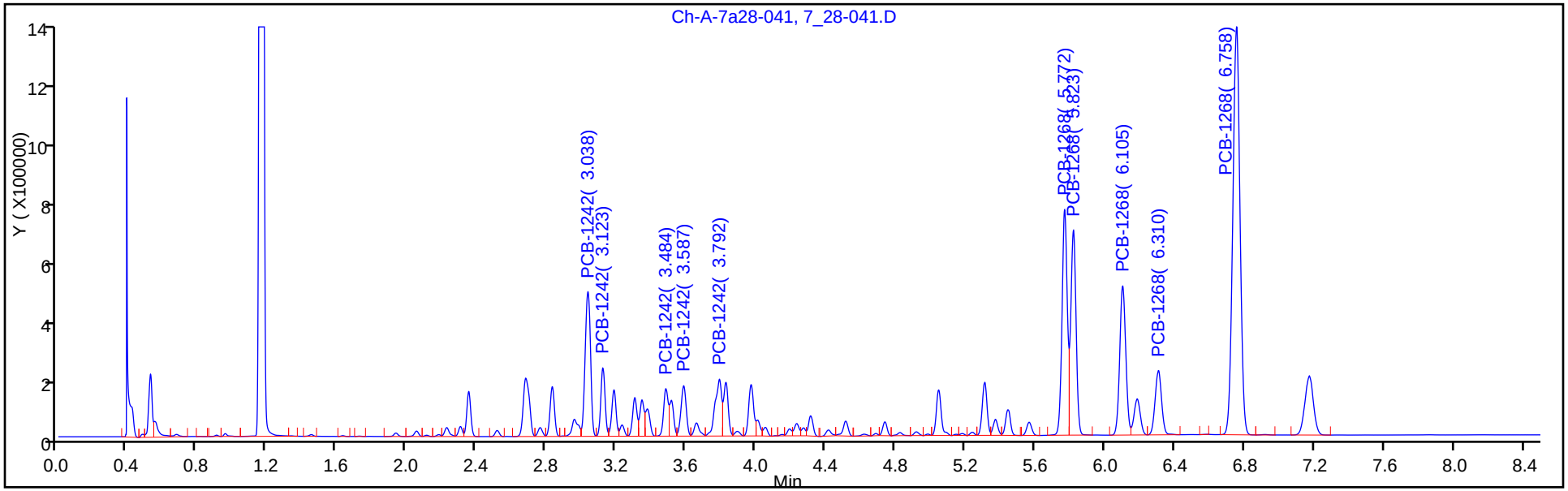
Report Date: 29-Mar-2017 10:55:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

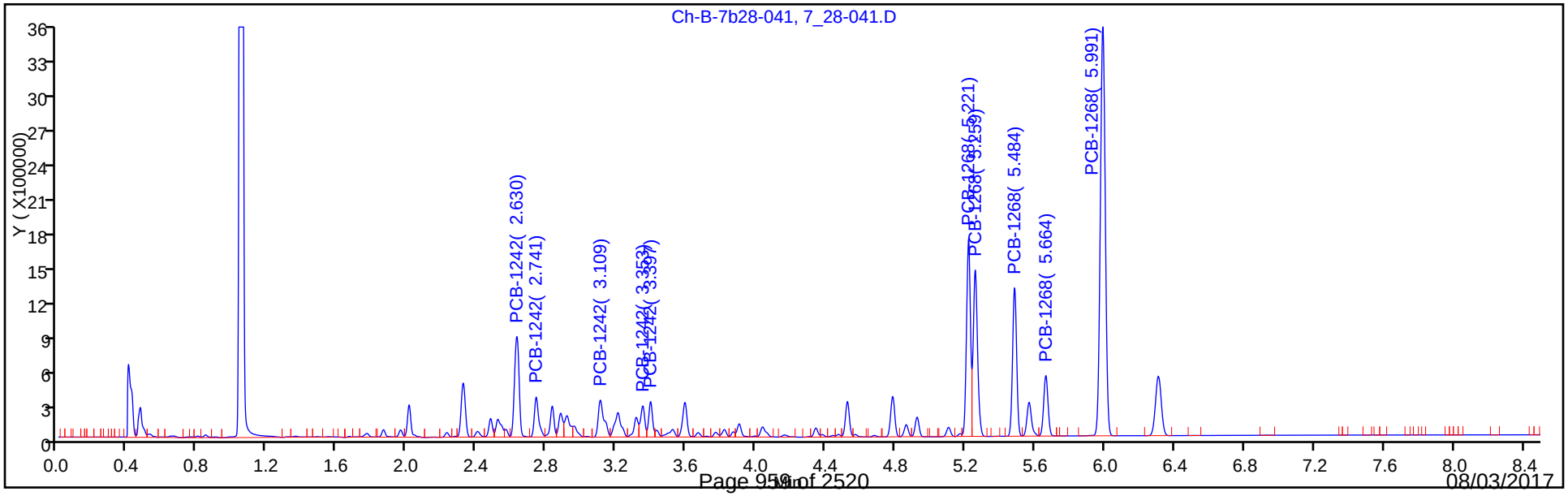
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D

Injection Date:	28-Mar-2017 18:19:33	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 18:35:31 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:28 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:38:32

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	12650899	0.5000	0.5000	
2	1.050	1.050	0.000	21899156	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	3.038	3.038	0.000	45024	0.0200	0.0194	M
1	3.126	3.126	0.000	24575	0.0200	0.0194	M
1	3.486	3.486	0.000	16297	0.0200	0.0198	M
1	3.588	3.588	0.000	15761	0.0200	0.0195	M
1	3.793	3.793	0.000	20943	0.0200	0.0197	M
		Average of Peak Amounts =				0.0195	
2	2.631	2.631	0.000	75287	0.0200	0.0195	
2	2.743	2.743	0.000	43441	0.0200	0.0197	
2	3.110	3.110	0.000	32179	0.0200	0.0194	
2	3.346	3.346	0.000	55935	0.0200	0.0219	
2	3.397	3.397	0.000	20956	0.0200	0.0196	
		Average of Peak Amounts =				0.0200	
						RPD = 2.43	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							M
1	5.773	5.773	0.000	78633	0.0200	0.0201	M
1	5.823	5.823	0.000	73321	0.0200	0.0203	M
1	6.108	6.108	0.000	75079	0.0200	0.0203	M
1	6.310	6.310	0.000	31871	0.0200	0.0199	M
1	6.758	6.758	0.000	183632	0.0200	0.0202	M
		Average of Peak Amounts =				0.0201	
2	5.220	5.220	0.000	105035	0.0200	0.0206	
2	5.258	5.258	0.000	92893	0.0200	0.0206	
2	5.485	5.485	0.000	84467	0.0200	0.0207	
2	5.665	5.665	0.000	88103	0.0200	0.0211	
2	5.990	5.990	0.000	341852	0.0200	0.0211	
		Average of Peak Amounts =				0.0208	
						RPD = 3.25	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00005 Amount Added: 0.25 Units: mL

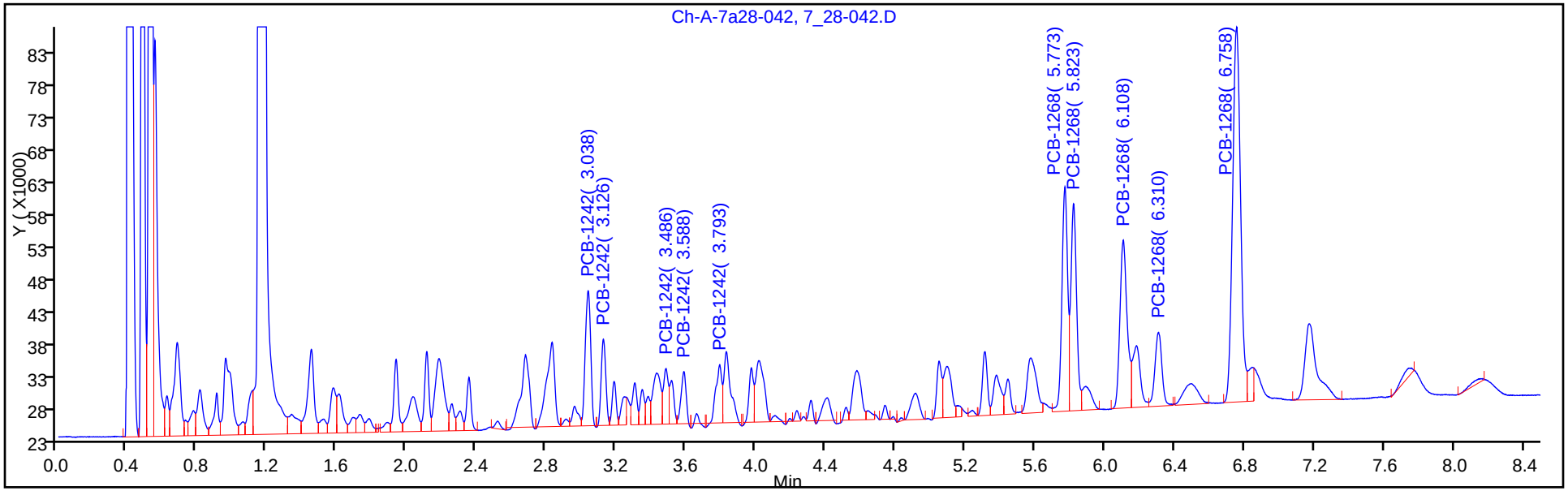
Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

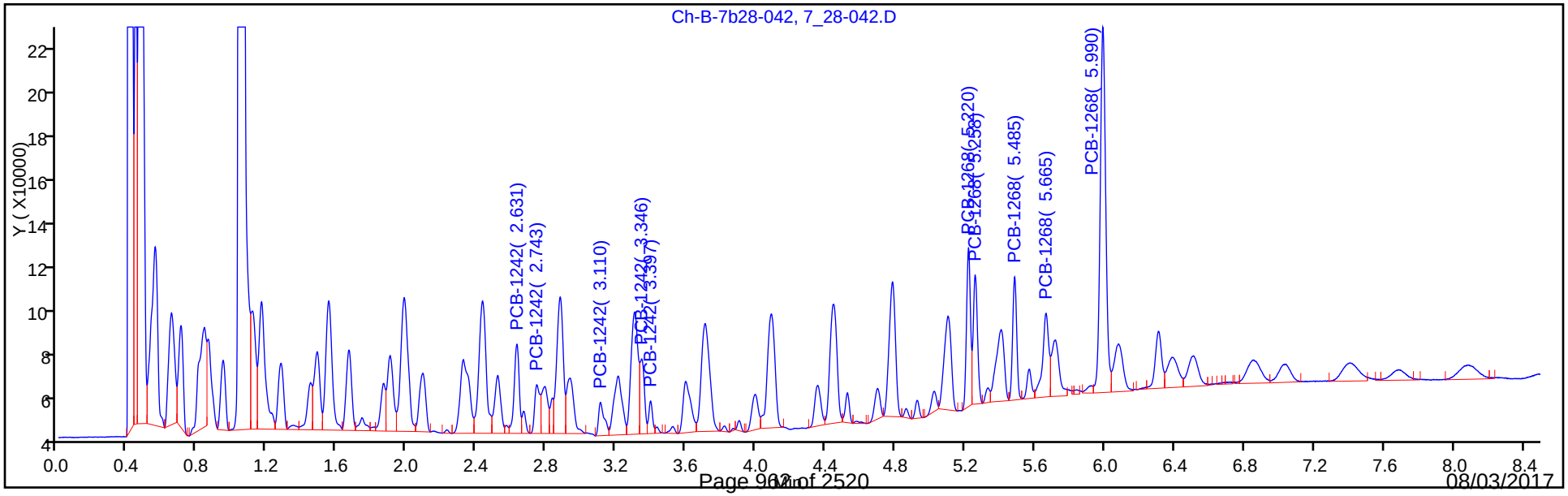
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date:	28-Mar-2017 18:35:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date: 28-Mar-2017 18:35:31 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

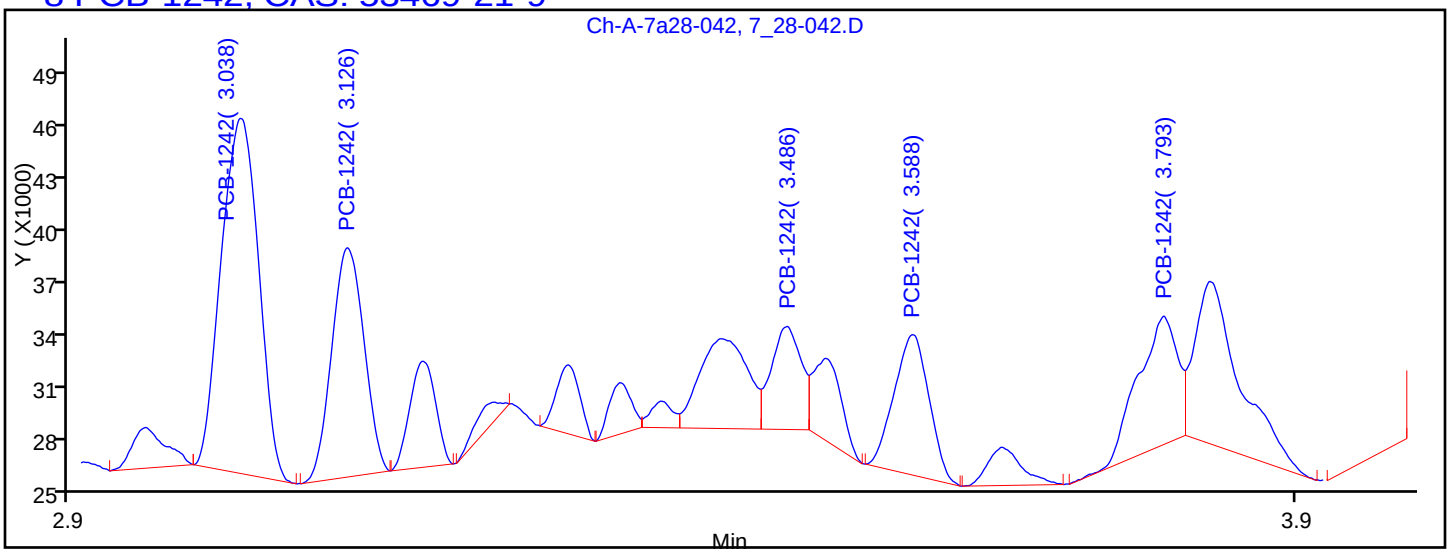
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 29

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

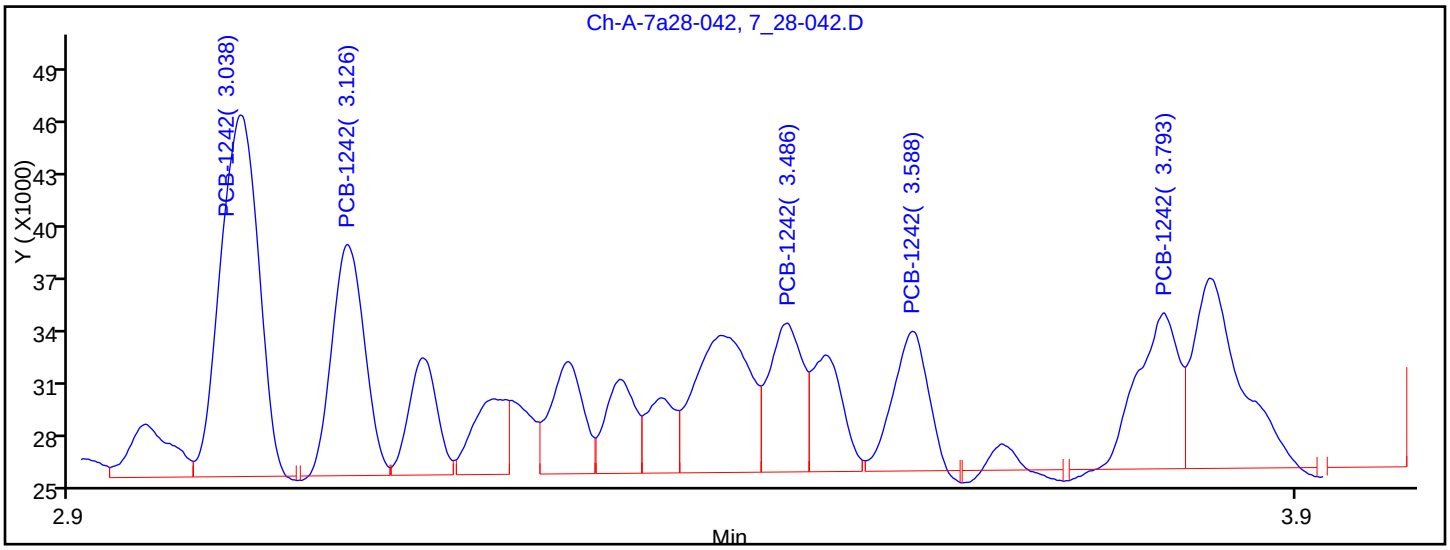
Column: Detector Ch-A-7A136

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.038	Response = 43410
3.126	Response = 24176
3.486	Response = 10116
3.588	Response = 15996
3.793	Response = 16854



Manual Integration Results

3.038	Response = 45024	M
3.126	Response = 24575	M
3.486	Response = 16297	M
3.588	Response = 15761	M
3.793	Response = 20943	M

Reviewer: owenj, 29-Mar-2017 10:26:23

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date: 28-Mar-2017 18:35:31 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

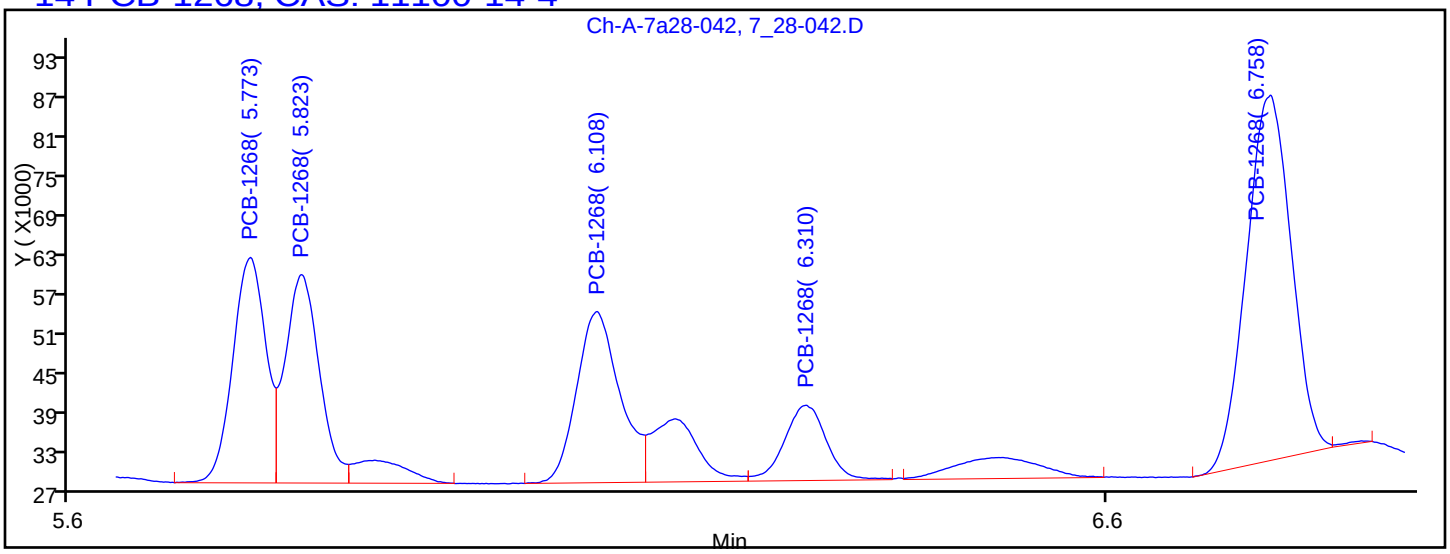
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 29

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

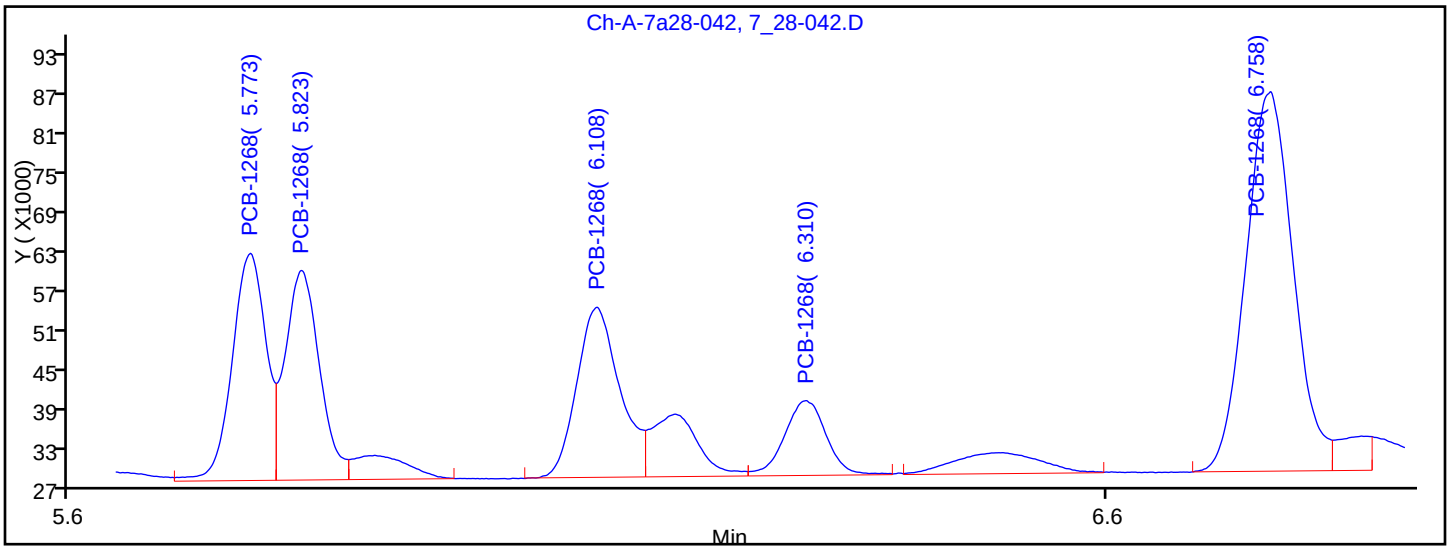
Column: Detector Ch-A-7A136

14 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.773	Response = 76082
5.823	Response = 72150
6.108	Response = 75559
6.310	Response = 32088
6.758	Response = 166513



Manual Integration Results

5.773	Response = 78633	M
5.823	Response = 73321	M
6.108	Response = 75079	M
6.310	Response = 31871	M
6.758	Response = 183632	M

Reviewer: owenj, 29-Mar-2017 10:26:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	0.0859	0.0614	0.0583			Lin1	0.0006	0.0584							1.0000		0.9900
PCB-1242 Peak 2	0.0496	0.0233	0.0219			Lin1	0.0006	0.0218							1.0000		0.9900
PCB-1242 Peak 3	0.0367	0.0281	0.0266			Lin1	0.0002	0.0267							1.0000		0.9900
PCB-1242 Peak 4	0.0639	0.0173	0.0187			Lin1	0.0009	0.0177							0.9960		0.9900
PCB-1242 Peak 5	0.0239	0.0180	0.0172			Lin1	0.0001	0.0172							1.0000		0.9900
PCB-1268 Peak 1	0.1199	0.1028	0.1081			Lin1	0.0002	0.1069							1.0000		0.9900
PCB-1268 Peak 2	0.1060	0.0948	0.0994			Lin1	0.0001	0.0984							1.0000		0.9900
PCB-1268 Peak 3	0.0964	0.0798	0.0842			Lin1	0.0002	0.0832							0.9990		0.9900
PCB-1268 Peak 4	0.1006	0.0348	0.0360			Lin1	0.0013	0.0348							0.9990		0.9900
PCB-1268 Peak 5	0.3903	0.2684	0.2904			Lin1	0.0018	0.2846							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	75287	1589338	6001083			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	43441	603453	2261171			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	32179	728642	2736567			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	55935	447304	1921262			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	20956	464875	1766998			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Lin1	105035	2662043	11132269			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Lin1	92893	2453043	10240144			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Lin1	84467	2066721	8678923			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Lin1	88103	901567	3712088			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Lin1	341852	6947966	29910422			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 18:03:31 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:20 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:28:23

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14011659	0.5000	0.5000	
2	1.049	1.049	0.000	25753742	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.037	3.038	-0.001	3730845	2.00	1.98	a
1	3.123	3.126	-0.003	1381712	2.00	1.98	a
1	3.484	3.486	-0.002	1064743	2.00	1.99	a
1	3.587	3.588	-0.001	1259668	2.00	1.98	a
1	3.792	3.793	-0.001	1801893	2.00	1.99	a
		Average of Peak Amounts =				1.99	
2	2.630	2.631	-0.001	6001083	2.00	1.98	
2	2.740	2.743	-0.003	2261171	2.00	1.99	
2	3.108	3.110	-0.002	2736567	2.00	1.98	
2	3.351	3.346	0.005	1921262	2.00	2.06	a
2	3.396	3.397	-0.001	1766998	2.00	1.99	a
		Average of Peak Amounts =				2.00	
						RPD = 0.77	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	5975368	2.00	2.00	a
1	5.822	5.823	0.000	5541707	2.00	2.01	a
1	6.107	6.108	-0.001	4607641	2.00	2.01	a
1	6.309	6.310	-0.001	2051179	2.00	2.00	a
1	6.757	6.758	-0.001	14926402	2.00	2.01	a
		Average of Peak Amounts =				2.00	
2	5.220	5.220	0.000	11132269	2.00	2.02	a
2	5.259	5.258	0.001	10240144	2.00	2.02	a
2	5.483	5.485	-0.002	8678923	2.00	2.02	a
2	5.664	5.665	-0.001	3712088	2.00	2.04	a
2	5.991	5.990	0.001	29910422	2.00	2.03	a
		Average of Peak Amounts =				2.03	
						RPD = 1.06	

Reagents:

42-68w/IS@2.0_00005 Amount Added: 0.25 Units: mL

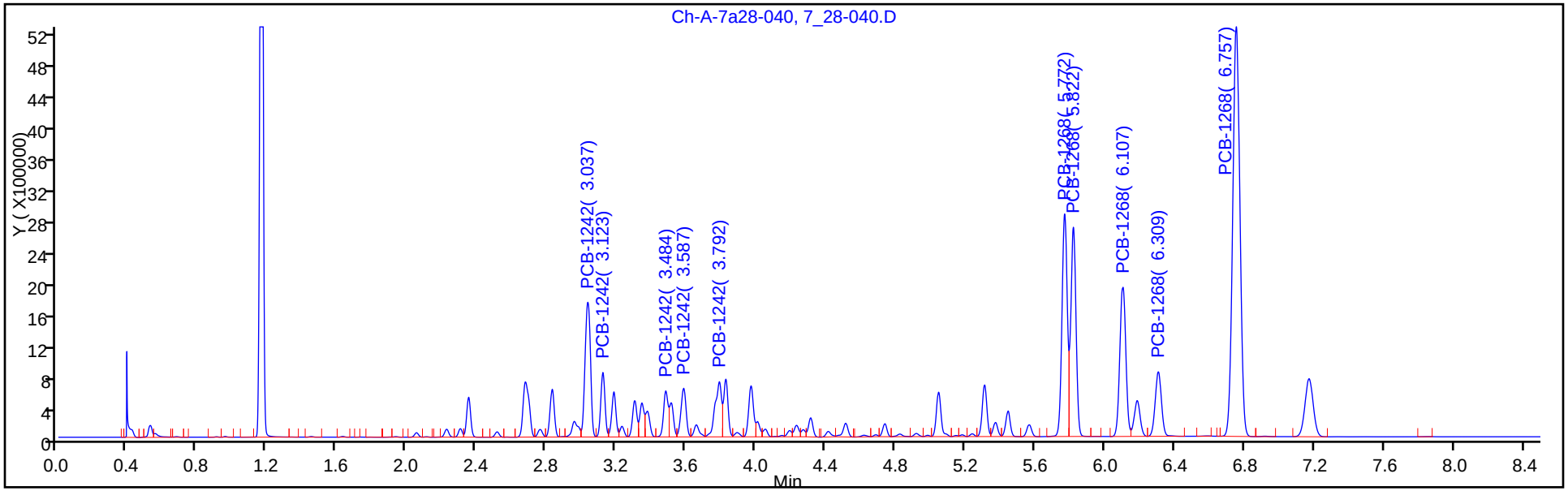
Report Date: 29-Mar-2017 10:55:21 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

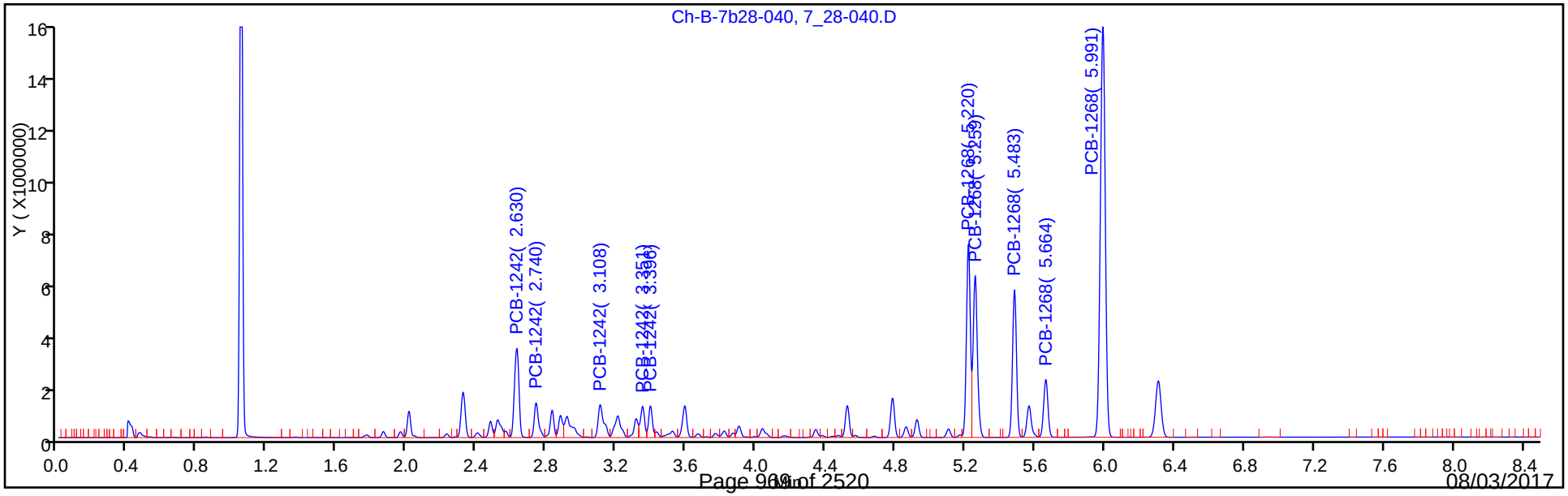
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D

Injection Date:	28-Mar-2017 18:03:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 18:19:33 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:24 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:26:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	13954704	0.5000	0.5000	
2	1.050	1.049	0.001	25885897	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.038	3.038	0.000	988715	0.5000	0.5214	
1	3.123	3.126	-0.004	370241	0.5000	0.5186	
1	3.484	3.486	-0.002	276130	0.5000	0.5082	
1	3.587	3.588	-0.001	331038	0.5000	0.5173	
1	3.792	3.793	-0.001	464108	0.5000	0.5102	
		Average of Peak Amounts =				0.5151	
2	2.630	2.631	-0.001	1589338	0.5000	0.5157	
2	2.741	2.743	-0.002	603453	0.5000	0.5096	
2	3.109	3.110	-0.001	728642	0.5000	0.5190	
2	3.353	3.346	0.006	447304	0.5000	0.4384	
2	3.397	3.397	0.000	464875	0.5000	0.5139	
		Average of Peak Amounts =				0.4993	
						RPD = 3.12	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	1500432	0.5000	0.4979	
1	5.823	5.823	0.000	1364645	0.5000	0.4899	
1	6.105	6.108	-0.003	1144877	0.5000	0.4894	
1	6.310	6.310	0.000	526604	0.5000	0.5037	
1	6.758	6.758	0.000	3708198	0.5000	0.4947	
		Average of Peak Amounts =				0.4951	
2	5.221	5.220	0.001	2662043	0.5000	0.4792	
2	5.259	5.258	0.001	2453043	0.5000	0.4804	
2	5.484	5.485	-0.001	2066721	0.5000	0.4772	
2	5.664	5.665	-0.001	901567	0.5000	0.4639	
2	5.991	5.990	0.001	6947966	0.5000	0.4651	
		Average of Peak Amounts =				0.4732	
						RPD = 4.53	

Reagents:

42-68w/IS@0.5_00008 Amount Added: 0.25 Units: mL

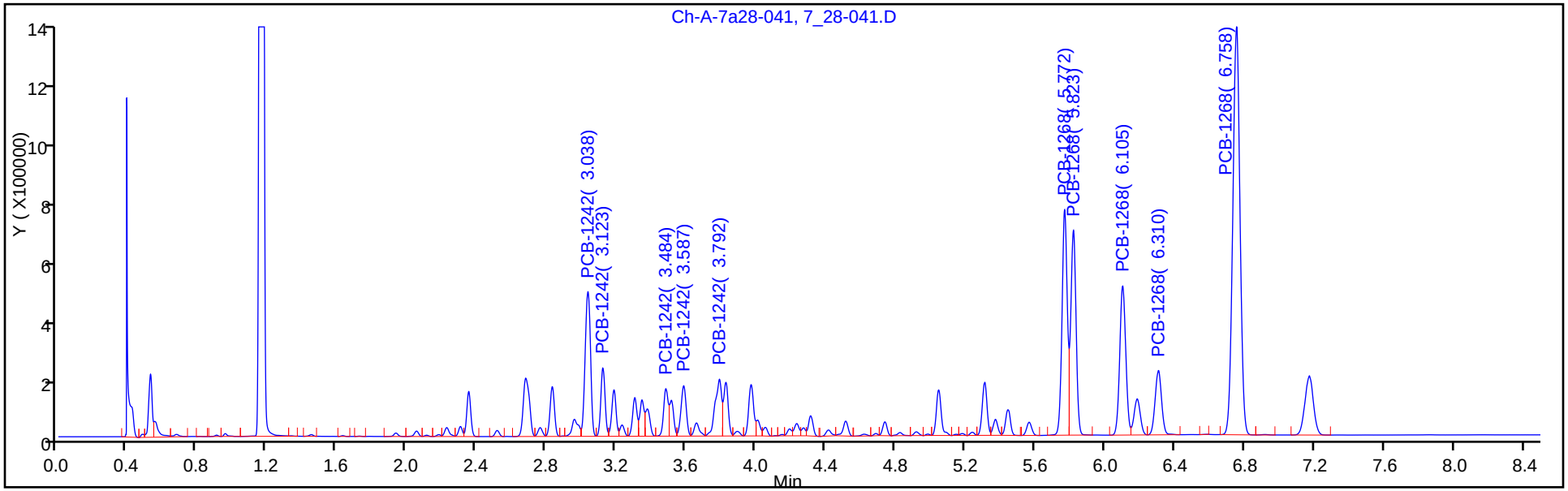
Report Date: 29-Mar-2017 10:55:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

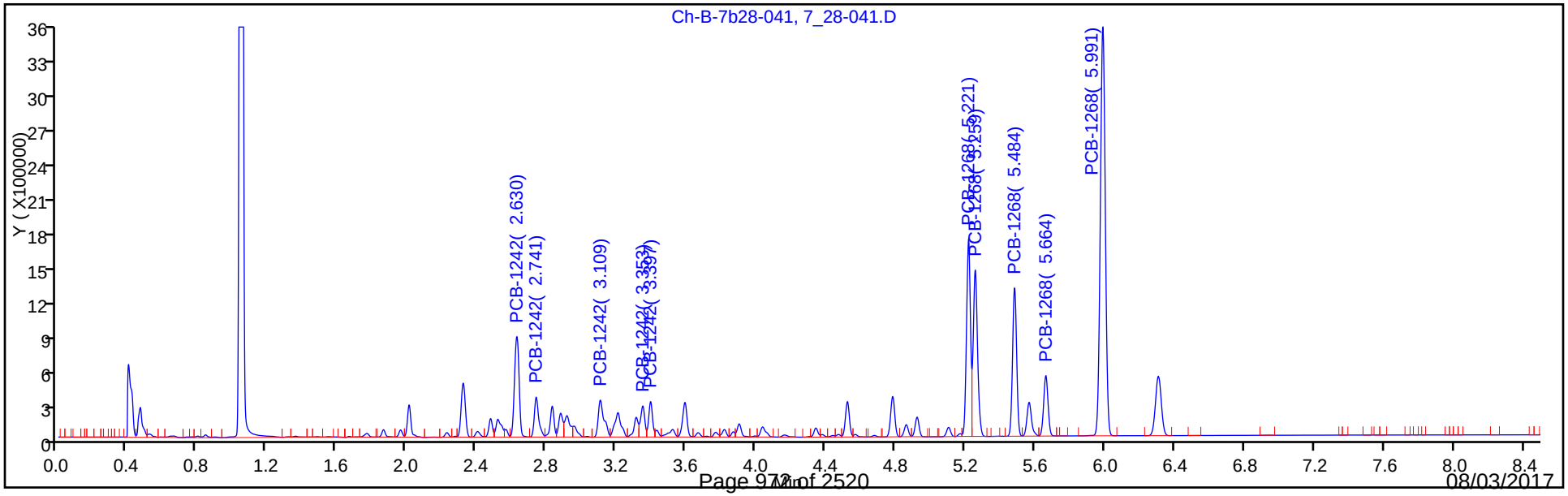
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D

Injection Date:	28-Mar-2017 18:19:33	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 18:35:31 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:28 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:38:32

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	12650899	0.5000	0.5000	
2	1.050	1.050	0.000	21899156	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	3.038	3.038	0.000	45024	0.0200	0.0194	M
1	3.126	3.126	0.000	24575	0.0200	0.0194	M
1	3.486	3.486	0.000	16297	0.0200	0.0198	M
1	3.588	3.588	0.000	15761	0.0200	0.0195	M
1	3.793	3.793	0.000	20943	0.0200	0.0197	M
		Average of Peak Amounts =				0.0195	
2	2.631	2.631	0.000	75287	0.0200	0.0195	
2	2.743	2.743	0.000	43441	0.0200	0.0197	
2	3.110	3.110	0.000	32179	0.0200	0.0194	
2	3.346	3.346	0.000	55935	0.0200	0.0219	
2	3.397	3.397	0.000	20956	0.0200	0.0196	
		Average of Peak Amounts =				0.0200	
						RPD = 2.43	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							M
1	5.773	5.773	0.000	78633	0.0200	0.0201	M
1	5.823	5.823	0.000	73321	0.0200	0.0203	M
1	6.108	6.108	0.000	75079	0.0200	0.0203	M
1	6.310	6.310	0.000	31871	0.0200	0.0199	M
1	6.758	6.758	0.000	183632	0.0200	0.0202	M
		Average of Peak Amounts =				0.0201	
2	5.220	5.220	0.000	105035	0.0200	0.0206	
2	5.258	5.258	0.000	92893	0.0200	0.0206	
2	5.485	5.485	0.000	84467	0.0200	0.0207	
2	5.665	5.665	0.000	88103	0.0200	0.0211	
2	5.990	5.990	0.000	341852	0.0200	0.0211	
		Average of Peak Amounts =				0.0208	
						RPD = 3.25	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00005 Amount Added: 0.25 Units: mL

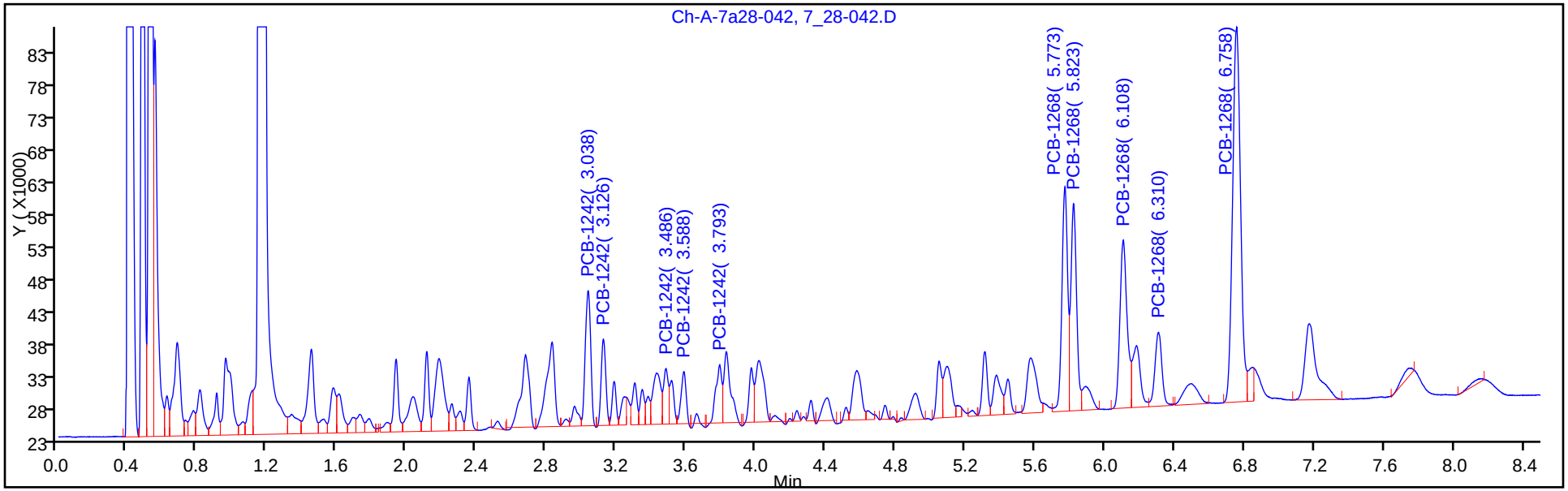
Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

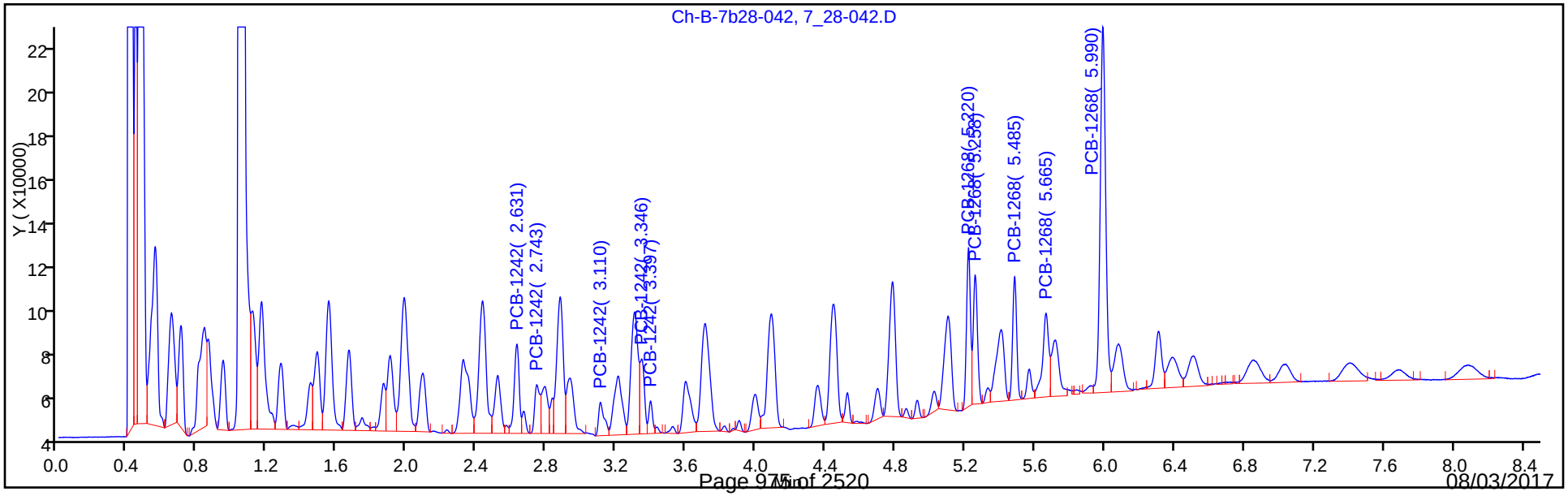
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date:	28-Mar-2017 18:35:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	0.0619	0.0435	0.0433			Lin1	0.0004	0.0430							1.0000		0.9900
PCB-1248 Peak 2	0.0466	0.0335	0.0357			Lin1	0.0002	0.0351							0.9990		0.9900
PCB-1248 Peak 3	0.0713	0.0531	0.0594			Lin1	0.0002	0.0580							0.9980		0.9900
PCB-1248 Peak 4	0.0550	0.0388	0.0372			Lin1	0.0004	0.0372							1.0000		0.9900
PCB-1248 Peak 5	0.0453	0.0326	0.0371			Lin1	0.0001	0.0361							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	34899	623314	2073540			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Lin1	26245	479840	1710687			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Lin1	40194	762025	2845233			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Lin1	31030	556648	1779509			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Lin1	25536	468315	1776016			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 19:07:11 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:38 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:46:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	11971661	0.5000	0.5000	
2	1.050	1.050	0.000	21010342	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.486	3.486	0.000	2073540	2.00	2.00	a
1	3.588	3.587	0.001	1710687	2.00	2.03	a
1	3.793	3.793	0.000	2845233	2.00	2.04	a
1	3.830	3.830	0.000	1779509	2.00	1.99	a
1	3.973	3.973	-0.001	1776016	2.00	2.05	a
		Average of Peak Amounts =				2.02	
2	3.108	3.108	0.000	2387904	2.00	2.02	
2	3.210	3.209	0.001	2152906	2.00	1.98	
2	3.353	3.351	0.001	2199586	2.00	1.95	a
2	3.398	3.397	0.001	2203362	2.00	2.03	a
2	3.593	3.593	0.000	2534395	2.00	2.02	
		Average of Peak Amounts =				2.00	
						RPD = 1.12	

Reagents:

1248w/IS@ 2.0_00005 Amount Added: 0.25 Units: mL

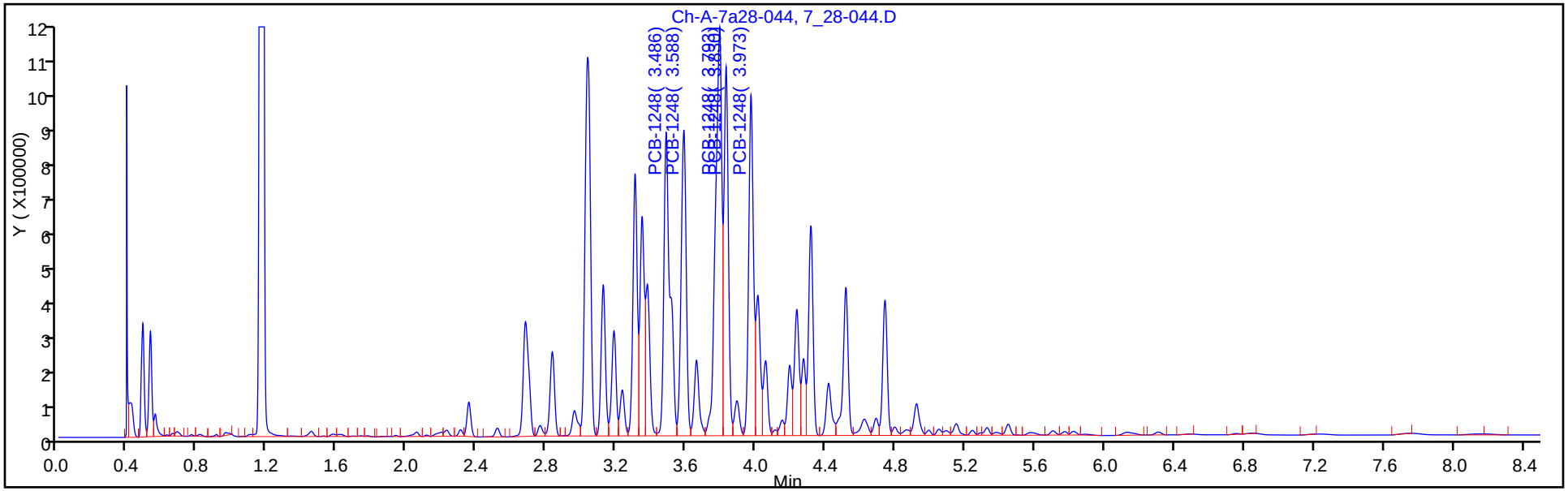
Report Date: 29-Mar-2017 10:55:38 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

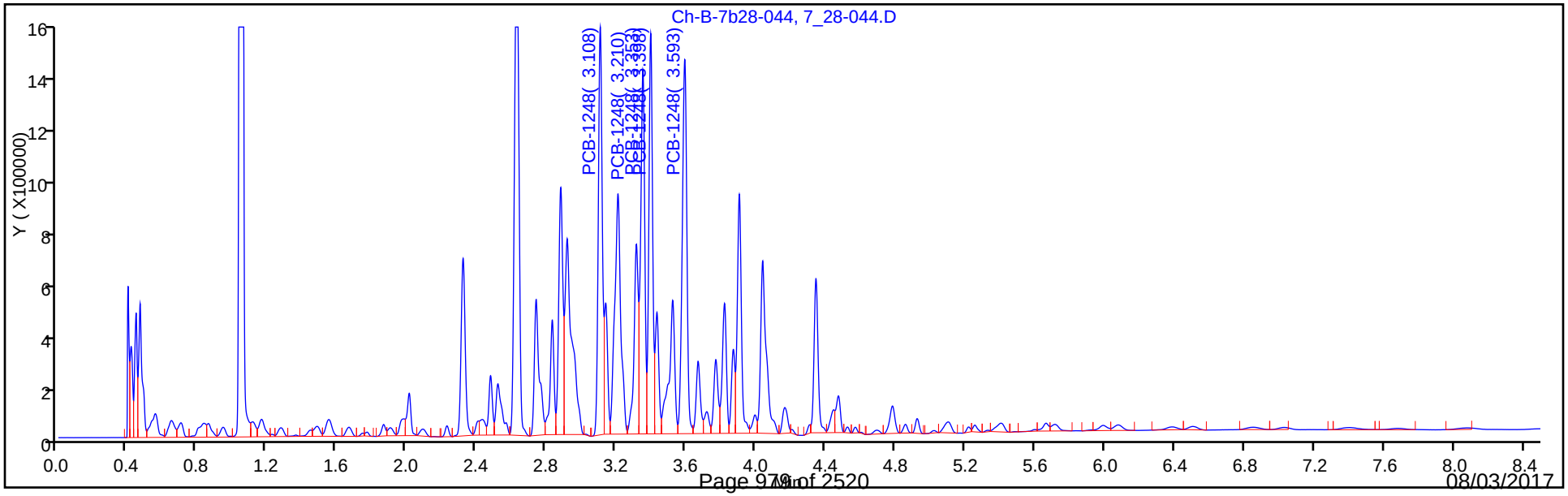
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D

Injection Date:	28-Mar-2017 19:07:11	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 19:23:08 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:42 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14344670	0.5000	0.5000	
2	1.049	1.050	-0.001	24914143	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.485	3.486	-0.001	623314	0.5000	0.4962	
1	3.587	3.587	0.000	479840	0.5000	0.4706	
1	3.793	3.793	0.000	762025	0.5000	0.4544	
1	3.830	3.830	0.000	556648	0.5000	0.5118	
1	3.973	3.973	0.000	468315	0.5000	0.4484	
		Average of Peak Amounts =				0.4763	
2	3.108	3.108	0.000	678573	0.5000	0.4799	
2	3.209	3.209	0.000	674320	0.5000	0.5171	
2	3.353	3.351	0.001	756594	0.5000	0.5558	
2	3.398	3.397	0.001	605917	0.5000	0.4677	
2	3.593	3.593	0.000	714562	0.5000	0.4772	
		Average of Peak Amounts =				0.4995	
						RPD = 4.77	

Reagents:

1248w/IS@ 0.5_00008 Amount Added: 0.25 Units: mL

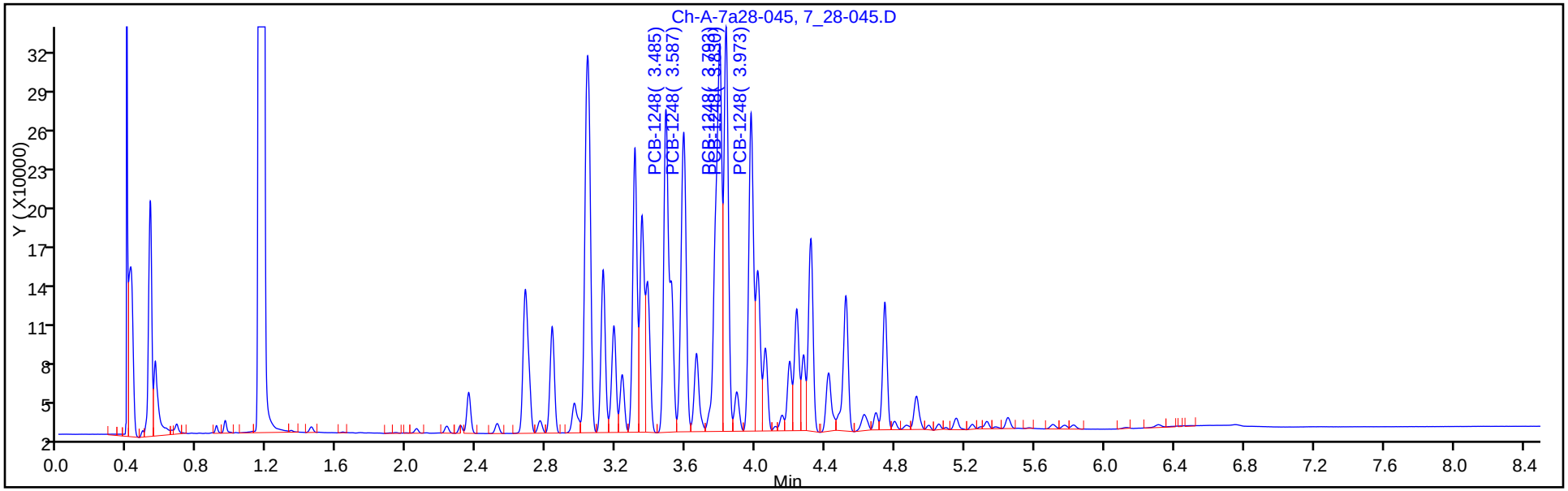
Report Date: 29-Mar-2017 10:55:43 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

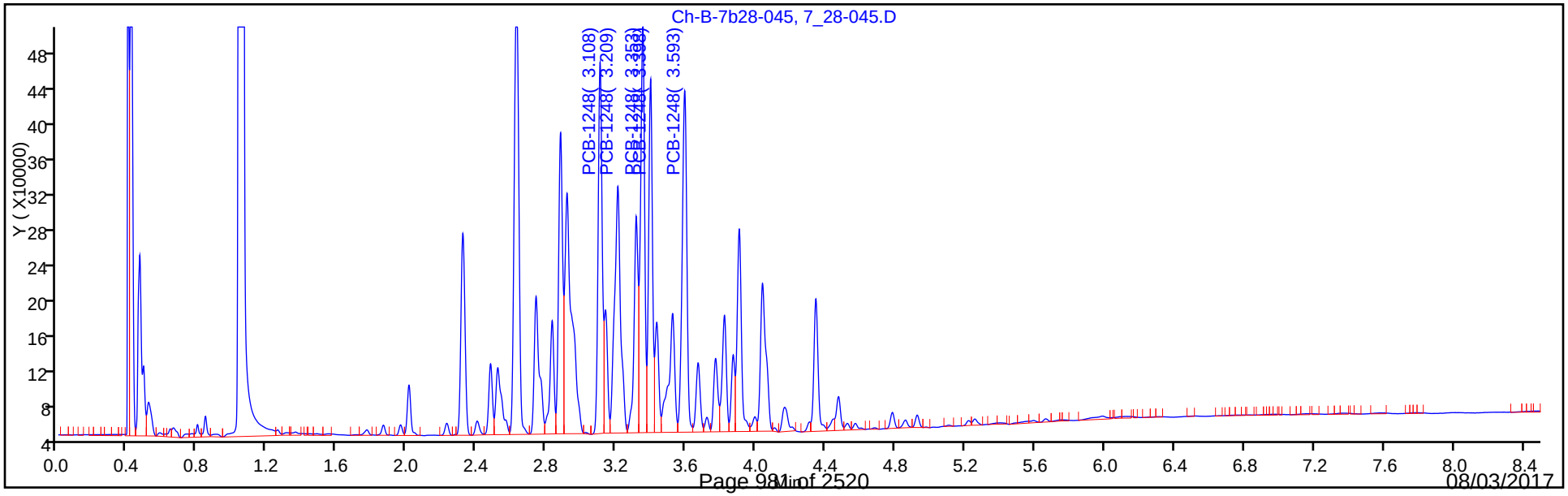
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D

Injection Date:	28-Mar-2017 19:23:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 19:39:13 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:51:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14092234	0.5000	0.5000	
2	1.049	1.049	0.000	25348531	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	3.486	3.486	0.000	34899	0.0200	0.0201	M
1	3.587	3.587	0.000	26245	0.0200	0.0209	M
1	3.793	3.793	0.000	40194	0.0200	0.0214	M
1	3.830	3.830	0.000	31030	0.0200	0.0196	M
1	3.973	3.973	0.000	25536	0.0200	0.0216	M
		Average of Peak Amounts =				0.0207	
2	3.108	3.108	0.000	37011	0.0200	0.0206	M
2	3.209	3.209	0.000	37469	0.0200	0.0195	M
2	3.351	3.351	0.000	41233	0.0200	0.0183	M
2	3.397	3.397	0.000	33226	0.0200	0.0210	M
2	3.593	3.593	0.000	38340	0.0200	0.0207	M
		Average of Peak Amounts =				0.0200	
						RPD = 3.46	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00005 Amount Added: 0.25 Units: mL

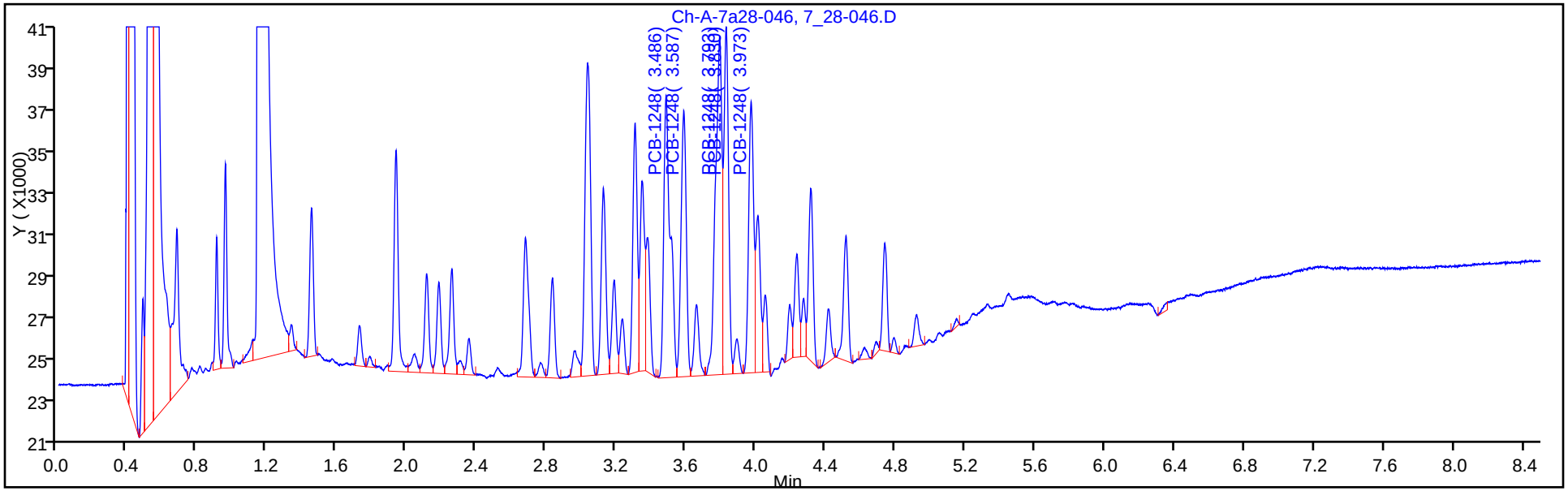
Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

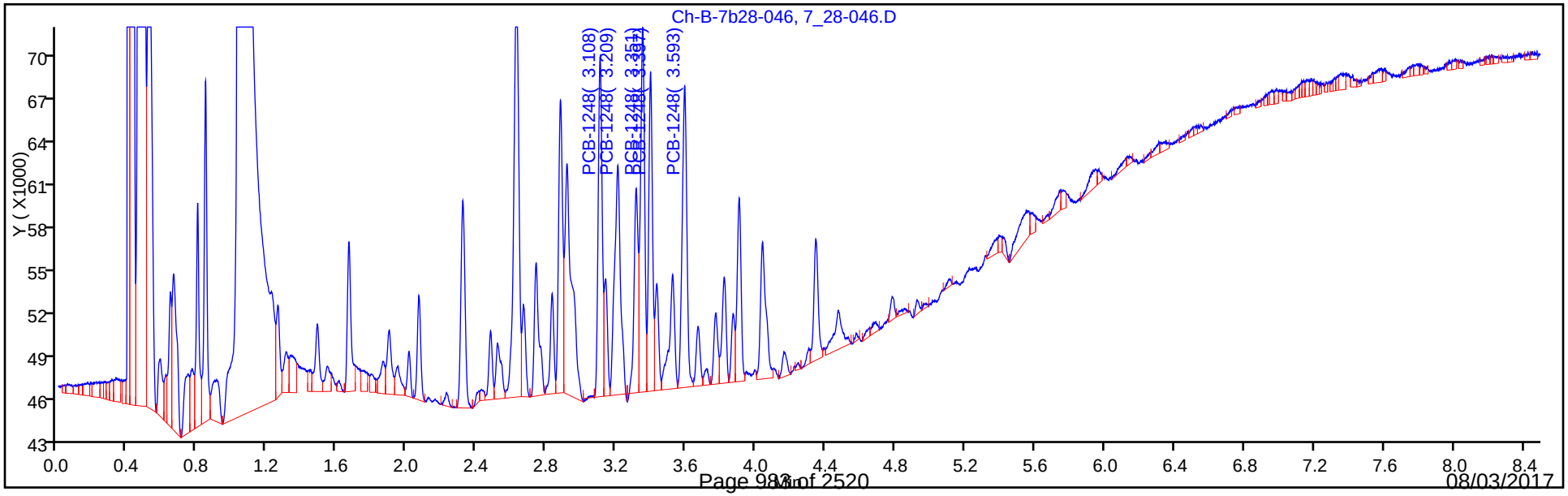
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date:	28-Mar-2017 19:39:13	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date: 28-Mar-2017 19:39:13 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

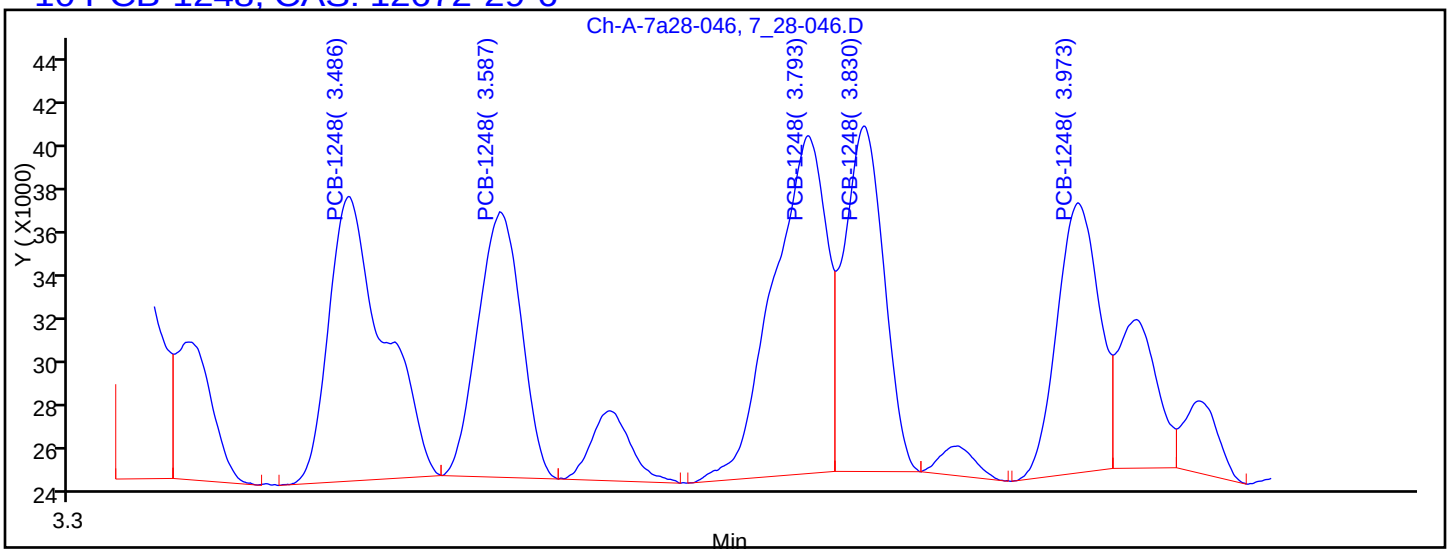
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 33

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

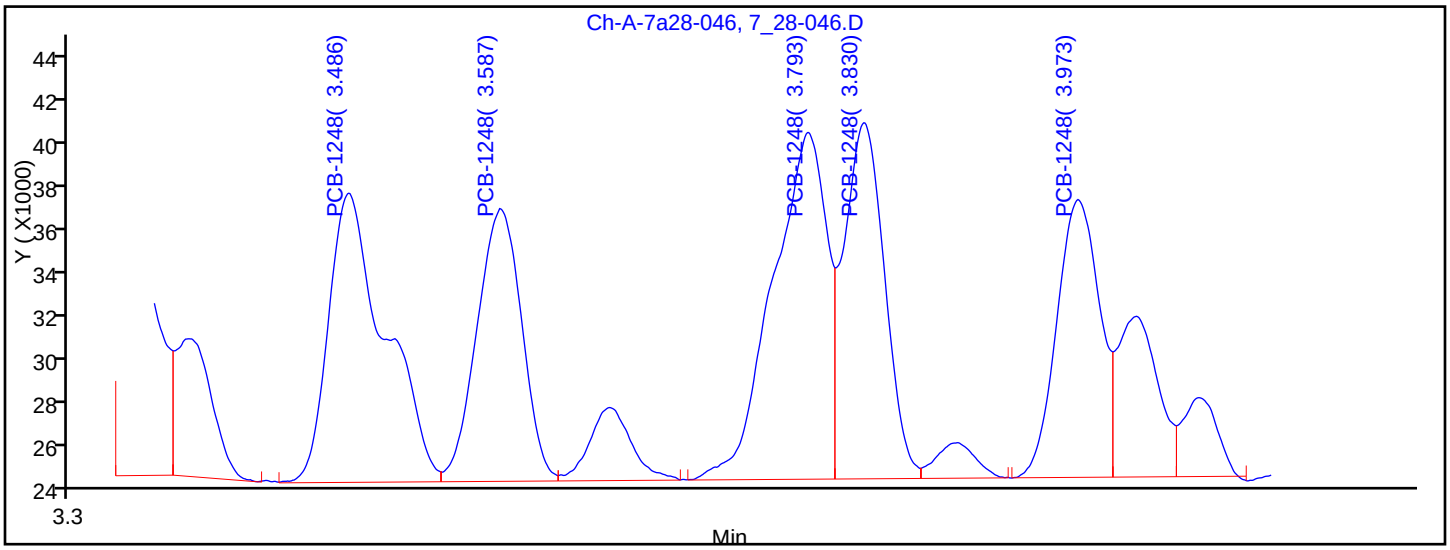
Column: Detector Ch-A-7A136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.486	Response = 33372
3.587	Response = 24654
3.793	Response = 38689
3.830	Response = 29365
3.973	Response = 24436



Manual Integration Results

3.486	Response = 34899	M
3.587	Response = 26245	M
3.793	Response = 40194	M
3.830	Response = 31030	M
3.973	Response = 25536	M

Reviewer: owenj, 29-Mar-2017 10:48:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30061

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	0.0365	0.0272	0.0284			Lin1	0.0002	0.0281							1.0000		0.9900
PCB-1248 Peak 2	0.0370	0.0271	0.0256			Lin1	0.0002	0.0257							1.0000		0.9900
PCB-1248 Peak 3	0.0407	0.0304	0.0262			Lin1	0.0003	0.0267							0.9970		0.9900
PCB-1248 Peak 4	0.0328	0.0243	0.0262			Lin1	0.0001	0.0258							0.9990		0.9900
PCB-1248 Peak 5	0.0378	0.0287	0.0302			Lin1	0.0001	0.0298							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30061

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	37011	678573	2387904			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Lin1	37469	674320	2152906			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Lin1	41233	756594	2199586			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Lin1	33226	605917	2203362			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Lin1	38340	714562	2534395			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 19:07:11 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:38 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:46:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	11971661	0.5000	0.5000	
2	1.050	1.050	0.000	21010342	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.486	3.486	0.000	2073540	2.00	2.00	a
1	3.588	3.587	0.001	1710687	2.00	2.03	a
1	3.793	3.793	0.000	2845233	2.00	2.04	a
1	3.830	3.830	0.000	1779509	2.00	1.99	a
1	3.973	3.973	-0.001	1776016	2.00	2.05	a
		Average of Peak Amounts =				2.02	
2	3.108	3.108	0.000	2387904	2.00	2.02	
2	3.210	3.209	0.001	2152906	2.00	1.98	
2	3.353	3.351	0.001	2199586	2.00	1.95	a
2	3.398	3.397	0.001	2203362	2.00	2.03	a
2	3.593	3.593	0.000	2534395	2.00	2.02	
		Average of Peak Amounts =				2.00	
						RPD = 1.12	

Reagents:

1248w/IS@ 2.0_00005 Amount Added: 0.25 Units: mL

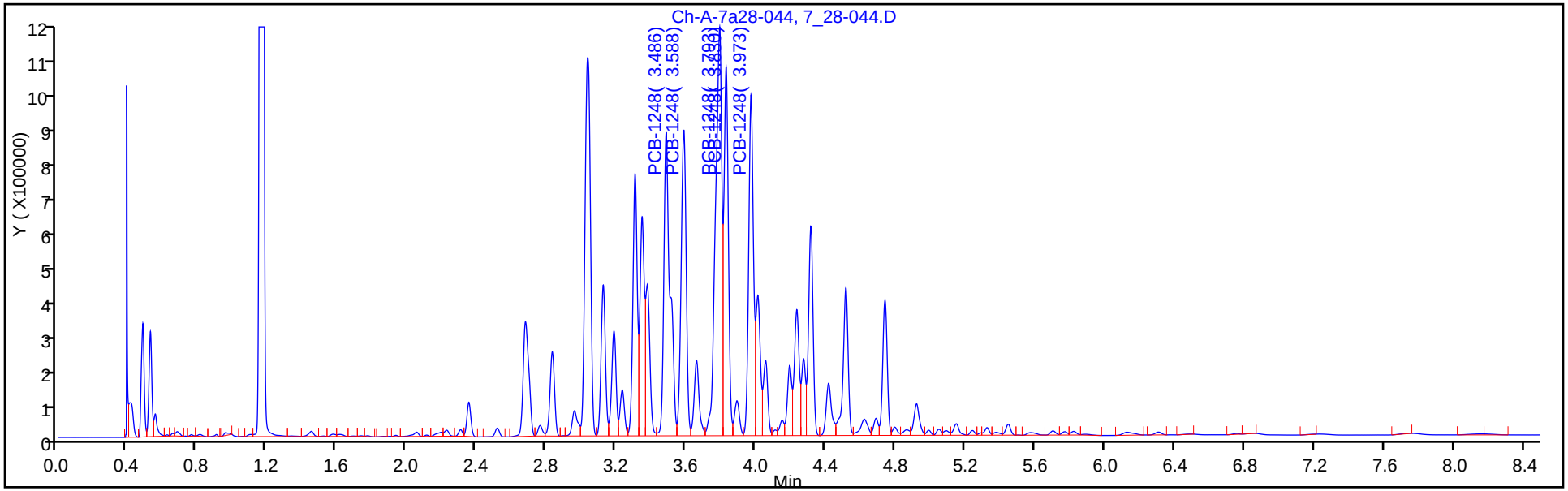
Report Date: 29-Mar-2017 10:55:39 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

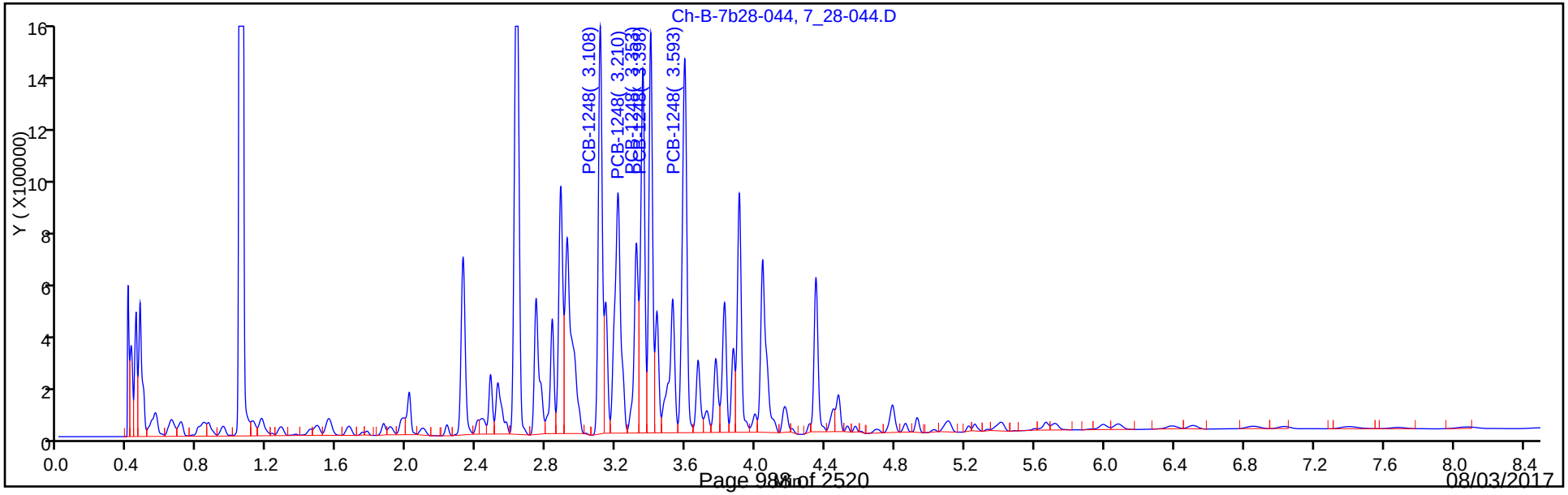
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D

Injection Date:	28-Mar-2017 19:07:11	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 19:23:08 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:42 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14344670	0.5000	0.5000	
2	1.049	1.050	-0.001	24914143	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.485	3.486	-0.001	623314	0.5000	0.4962	
1	3.587	3.587	0.000	479840	0.5000	0.4706	
1	3.793	3.793	0.000	762025	0.5000	0.4544	
1	3.830	3.830	0.000	556648	0.5000	0.5118	
1	3.973	3.973	0.000	468315	0.5000	0.4484	
		Average of Peak Amounts =				0.4763	
2	3.108	3.108	0.000	678573	0.5000	0.4799	
2	3.209	3.209	0.000	674320	0.5000	0.5171	
2	3.353	3.351	0.001	756594	0.5000	0.5558	
2	3.398	3.397	0.001	605917	0.5000	0.4677	
2	3.593	3.593	0.000	714562	0.5000	0.4772	
		Average of Peak Amounts =				0.4995	
						RPD = 4.77	

Reagents:

1248w/IS@ 0.5_00008 Amount Added: 0.25 Units: mL

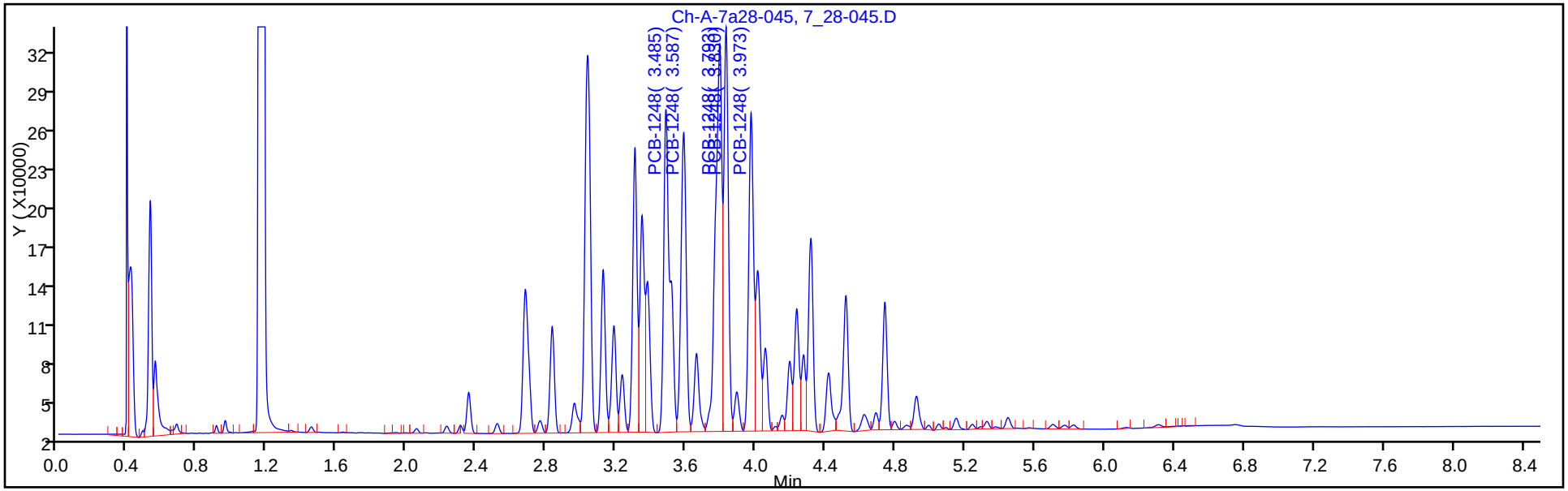
Report Date: 29-Mar-2017 10:55:43 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

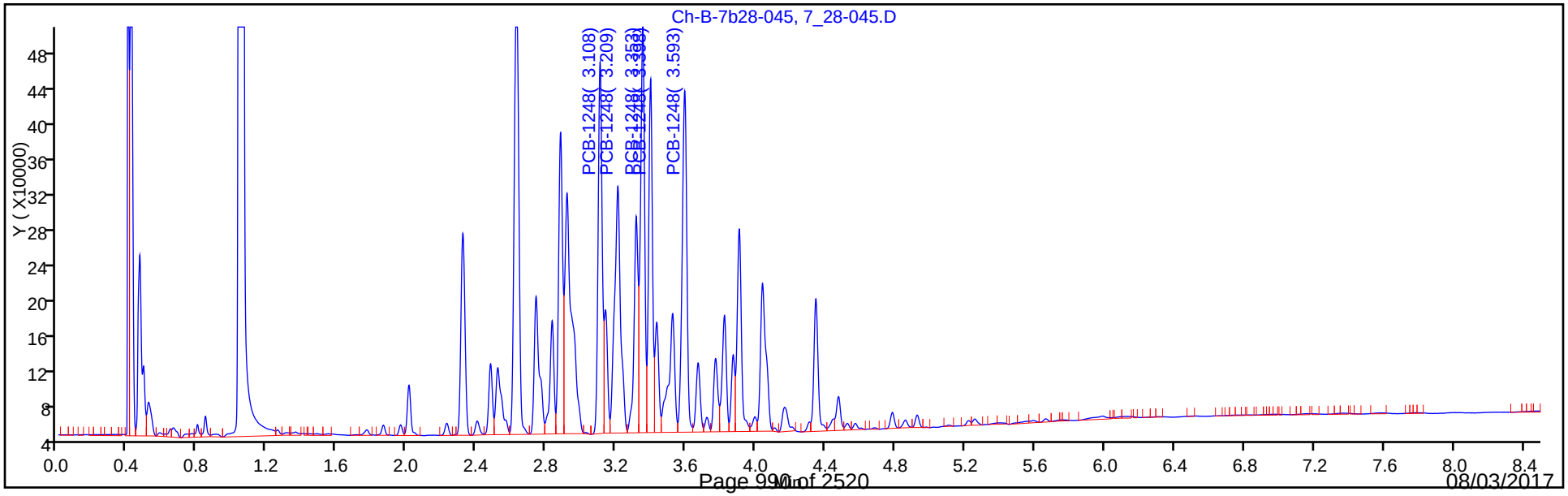
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D

Injection Date:	28-Mar-2017 19:23:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 19:39:13 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:51:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14092234	0.5000	0.5000	
2	1.049	1.049	0.000	25348531	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	3.486	3.486	0.000	34899	0.0200	0.0201	M
1	3.587	3.587	0.000	26245	0.0200	0.0209	M
1	3.793	3.793	0.000	40194	0.0200	0.0214	M
1	3.830	3.830	0.000	31030	0.0200	0.0196	M
1	3.973	3.973	0.000	25536	0.0200	0.0216	M
		Average of Peak Amounts =				0.0207	
2	3.108	3.108	0.000	37011	0.0200	0.0206	M
2	3.209	3.209	0.000	37469	0.0200	0.0195	M
2	3.351	3.351	0.000	41233	0.0200	0.0183	M
2	3.397	3.397	0.000	33226	0.0200	0.0210	M
2	3.593	3.593	0.000	38340	0.0200	0.0207	M
		Average of Peak Amounts =				0.0200	
						RPD = 3.46	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00005 Amount Added: 0.25 Units: mL

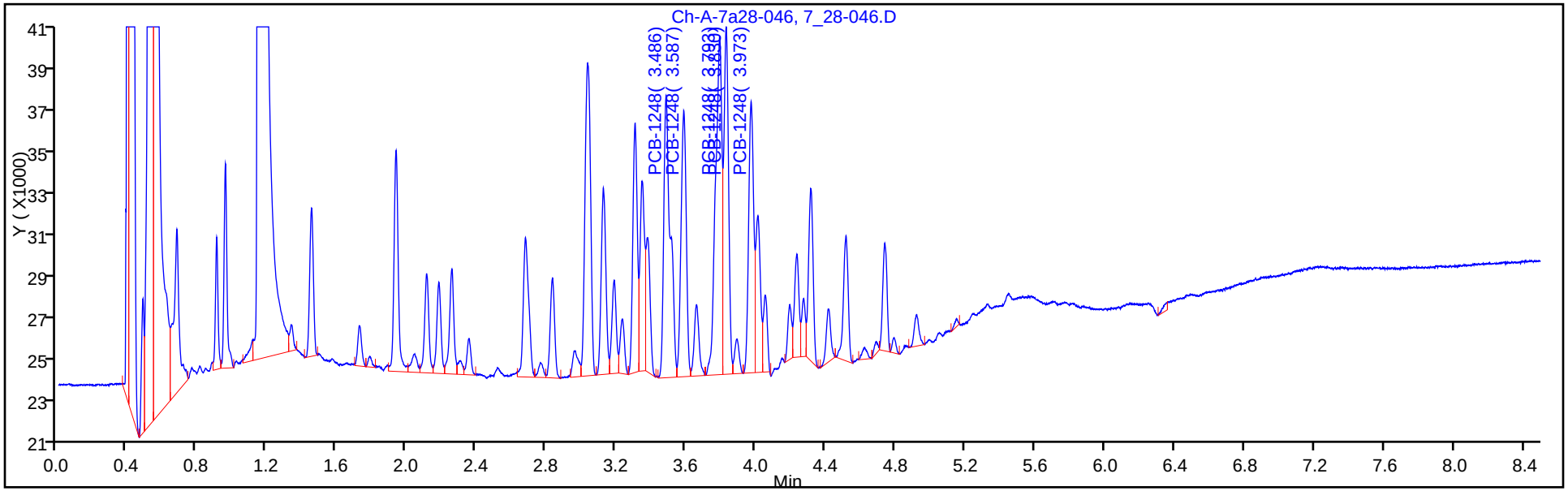
Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

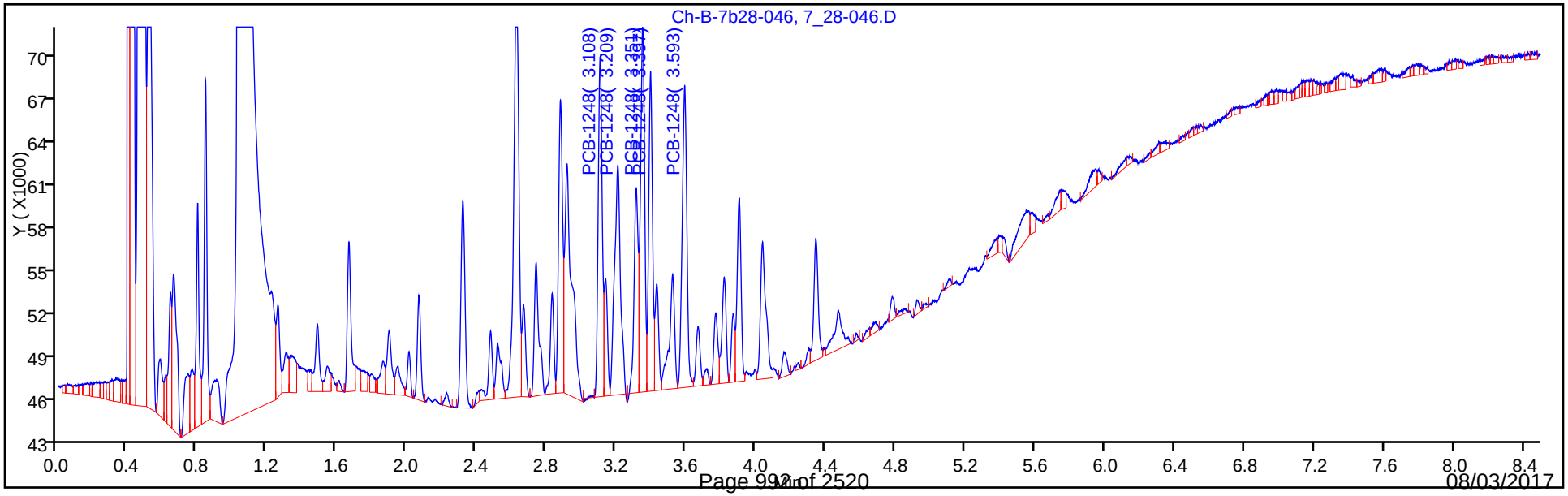
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date:	28-Mar-2017 19:39:13	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date: 28-Mar-2017 19:39:13 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

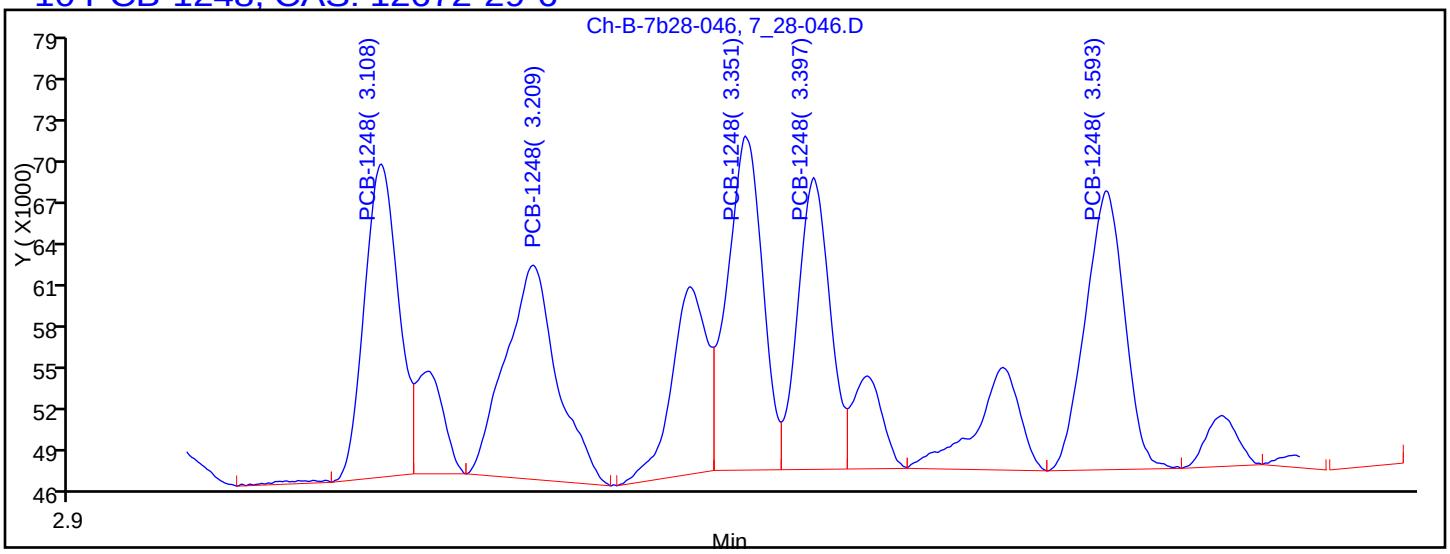
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 33

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

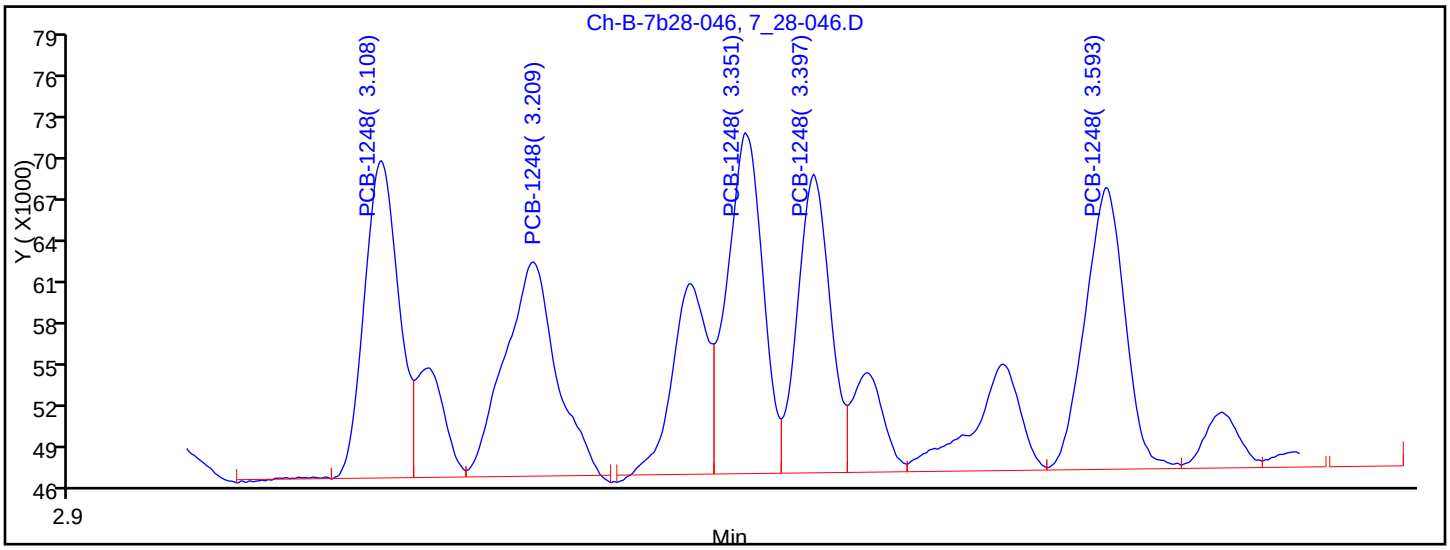
Column: Detector Ch-B-7b136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.108	Response = 36221
3.209	Response = 37652
3.351	Response = 39887
3.397	Response = 31922
3.593	Response = 37171



Manual Integration Results

3.108	Response = 37011	M
3.209	Response = 37469	M
3.351	Response = 41233	M
3.397	Response = 33226	M
3.593	Response = 38340	M

Reviewer: owenj, 29-Mar-2017 10:48:19

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368358/4 Calibration Date: 07/24/2017 14:48

Instrument ID: HP6890-6 Calib Start Date: 06/21/2017 11:38

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 06/21/2017 13:13

Lab File ID: 6_28-232.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0262	0.0285		0.545	0.500	8.9	20.0
PCB-1016 Peak 2	Lin1		0.0196		0.575	0.500	15.1	20.0
PCB-1016 Peak 3	Lin1		0.0714		0.556	0.500	11.3	20.0
PCB-1016 Peak 4	Lin1		0.0265		0.575	0.500	15.1	20.0
PCB-1016 Peak 5	Lin1		0.0177		0.564	0.500	12.7	20.0
PCB-1260 Peak 1	Lin1		0.0527		0.542	0.500	8.3	20.0
PCB-1260 Peak 2	Ave	0.0299	0.0280		0.468	0.500	-6.3	20.0
PCB-1260 Peak 3	Lin1		0.0253		0.550	0.500	9.9	20.0
PCB-1260 Peak 4	Lin1		0.0644		0.489	0.500	-2.1	20.0
PCB-1260 Peak 5	Lin1		0.0297		0.517	0.500	3.4	20.0
Tetrachloro-m-xylene	Lin1		0.9441		0.0137	0.0125	9.7	20.0
DCB Decachlorobiphenyl	Lin1		0.4898		0.0138	0.0125	10.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368358/4 Calibration Date: 07/24/2017 14:48

Instrument ID: HP6890-6 Calib Start Date: 06/21/2017 11:38

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 06/21/2017 13:13

Lab File ID: 6_28-232.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.49	2.46	2.52
PCB-1016 Peak 2	2.64	2.61	2.67
PCB-1016 Peak 3	2.84	2.81	2.87
PCB-1016 Peak 4	2.92	2.89	2.95
PCB-1016 Peak 5	2.99	2.96	3.02
PCB-1260 Peak 1	4.69	4.66	4.72
PCB-1260 Peak 2	4.82	4.79	4.85
PCB-1260 Peak 3	5.01	4.98	5.04
PCB-1260 Peak 4	5.20	5.17	5.23
PCB-1260 Peak 5	5.44	5.41	5.47
Tetrachloro-m-xylene	1.89	1.86	1.92
DCB Decachlorobiphenyl	6.45	6.42	6.48

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-232.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 24-Jul-2017 14:48:33 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:48:19 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:48:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.998	0.998	0.000	14730023	0.5000	0.5000	
2	1.101	1.101	0.000	196142590	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.894	1.894	0.000	347658	0.0125	0.0137	M
2	1.725	1.725	0.000	6431009	0.0125	0.0164	
						RPD = 17.97	
6 PCB-1016							M
1	2.488	2.488	0.000	419664	0.5000	0.5446	M
1	2.637	2.637	0.000	287970	0.5000	0.5753	M
1	2.836	2.836	0.000	1051531	0.5000	0.5565	M
1	2.923	2.923	0.000	389907	0.5000	0.5754	M
1	2.985	2.985	0.000	260306	0.5000	0.5637	M
		Average of Peak Amounts =				0.5631	
2	2.494	2.494	0.000	8017497	0.5000	0.7119	
2	2.814	2.814	0.000	17451130	0.5000	0.6424	
2	2.935	2.935	0.000	6621178	0.5000	0.6946	
2	3.075	3.075	0.000	3664048	0.5000	0.6921	
2	3.317	3.317	0.000	7252177	0.5000	0.6710	
		Average of Peak Amounts =				0.6824	
						RPD = 19.16	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.689	4.689	0.000	775896	0.5000	0.5415	M
1	4.816	4.816	0.000	411977	0.5000	0.4684	M
1	5.005	5.005	0.000	373176	0.5000	0.5496	M
1	5.204	5.204	0.000	948236	0.5000	0.4894	M
1	5.442	5.442	0.000	437106	0.5000	0.5170	M
		Average of Peak Amounts =				0.5132	
2	4.695	4.695	0.000	6846219	0.5000	0.6642	
2	4.741	4.741	0.000	6204230	0.5000	0.8281	
2	5.006	5.006	0.000	5177825	0.5000	0.6898	
2	5.142	5.142	0.000	14293251	0.5000	0.7396	
2	5.478	5.478	0.000	7235090	0.5000	0.7097	
		Average of Peak Amounts =				0.7263	
						RPD = 34.38	
9 1260 Res 1							M
1	5.442	5.442	0.000	437106	NR	NR	M
2	5.006	5.006	0.000	5177825	NR	NR	
						RPD = NaN	
14 1260 Res 2							M
1	5.544	5.544	0.000	227339	NR	NR	M
2	5.073	5.073	0.000	4318819	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.453	6.453	0.000	180368	0.0125	0.0138	
2	6.387	6.387	0.000	1855768	0.0125	0.0160	
						RPD = 14.73	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00007 Amount Added: 1.00 Units: ml

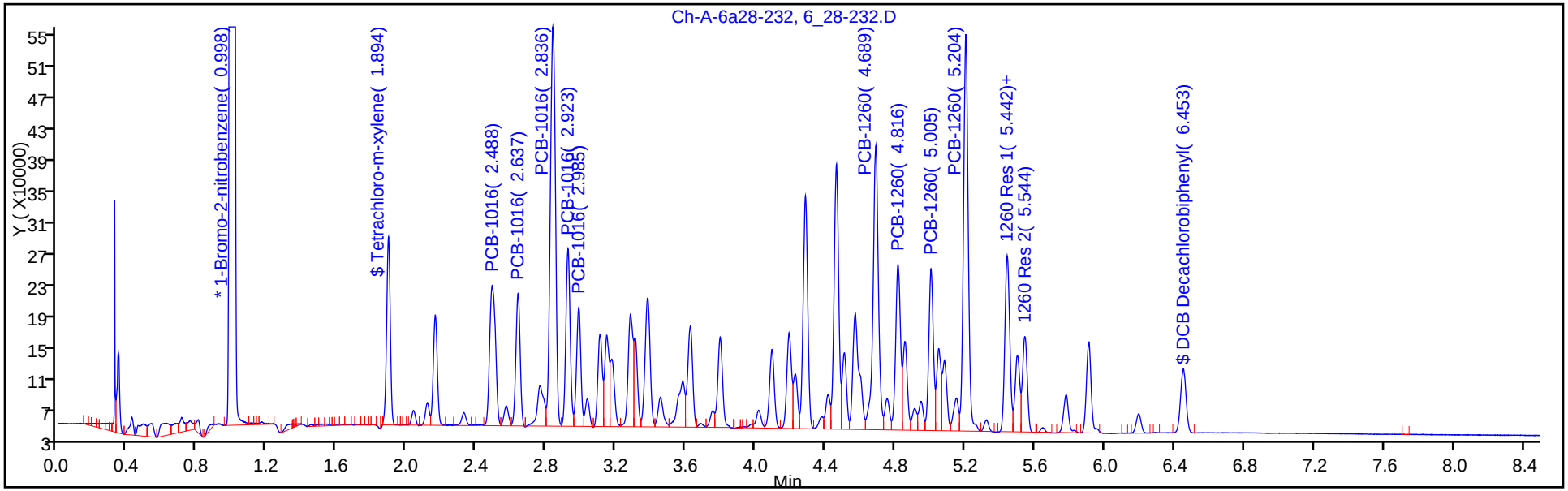
Report Date: 25-Jul-2017 10:48:19 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

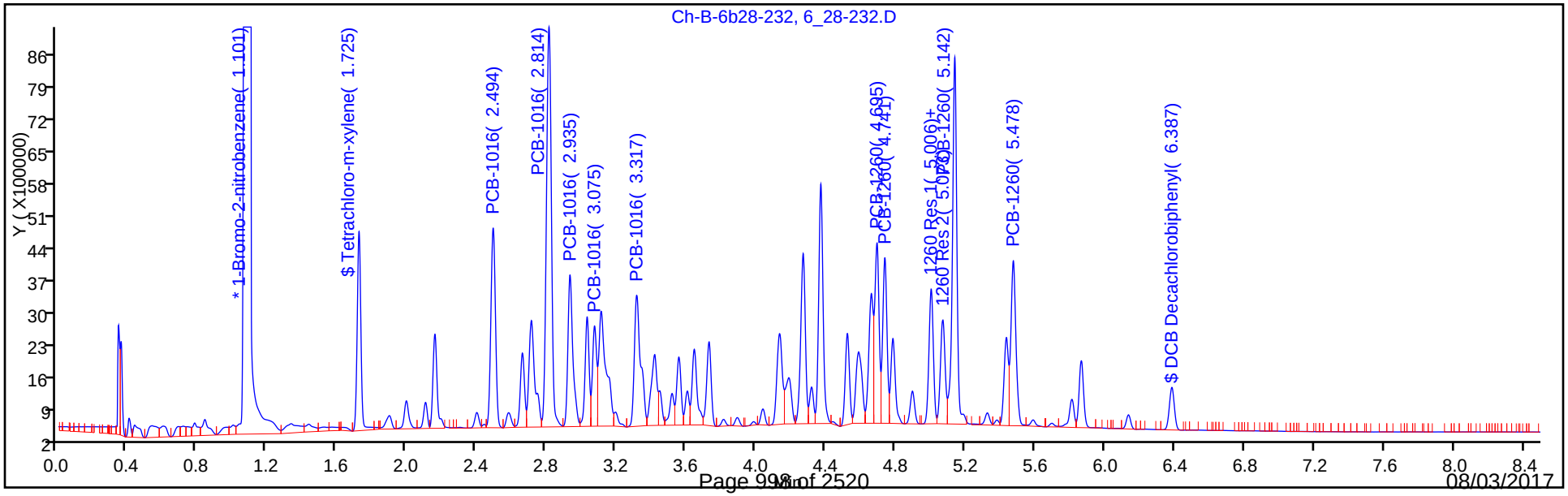
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-232.D

Injection Date:	24-Jul-2017 14:48:33	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

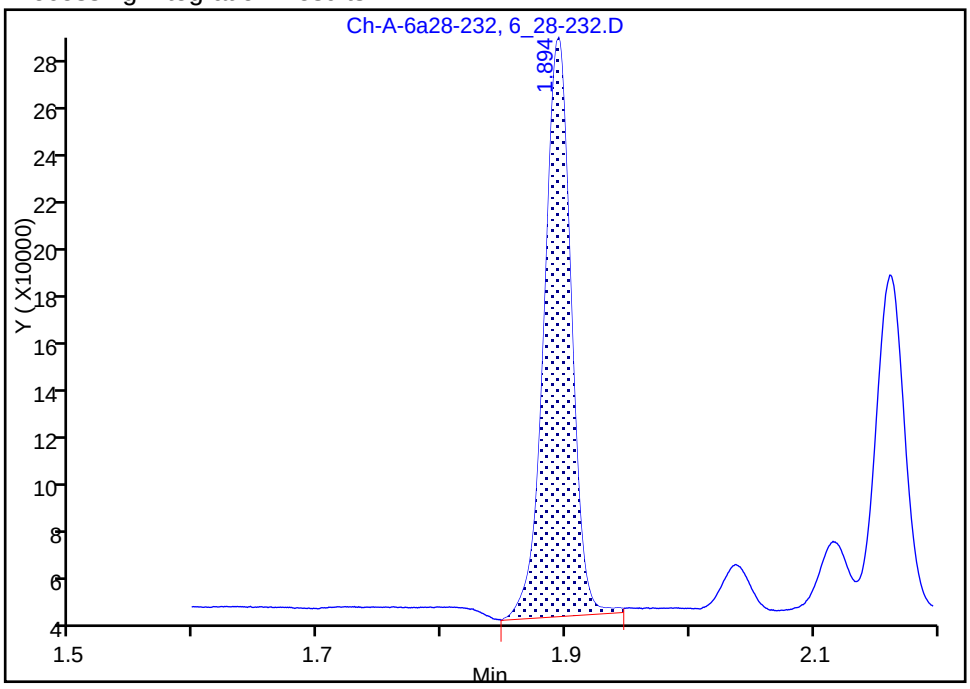
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-232.D
Injection Date: 24-Jul-2017 14:48:33 Instrument ID: HP6890-6
Lims ID: CCVIS
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

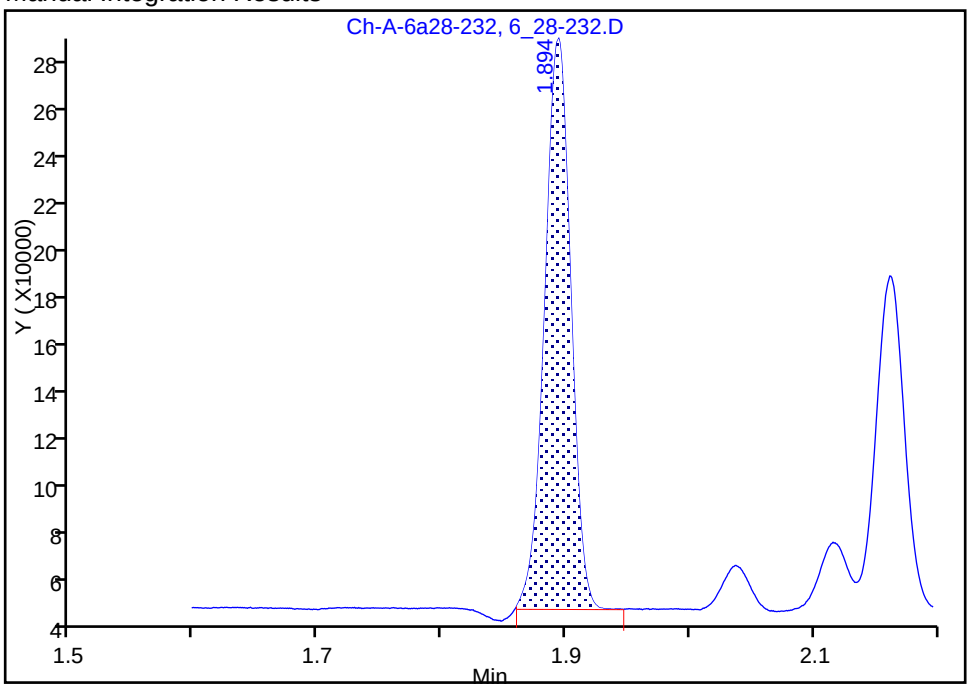
Processing Integration Results

RT: 1.89
Area: 365071
Amount: 0.014400
Amount Units: ng/uL



Manual Integration Results

RT: 1.89
Area: 347658
Amount: 0.013715
Amount Units: ng/uL



Reviewer: owenj, 24-Jul-2017 15:10:36
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Report Date: 25-Jul-2017 10:48:20 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-232.D

Injection Date: 24-Jul-2017 14:48:33 Instrument ID: HP6890-6

Lims ID: CCVIS

Client ID:

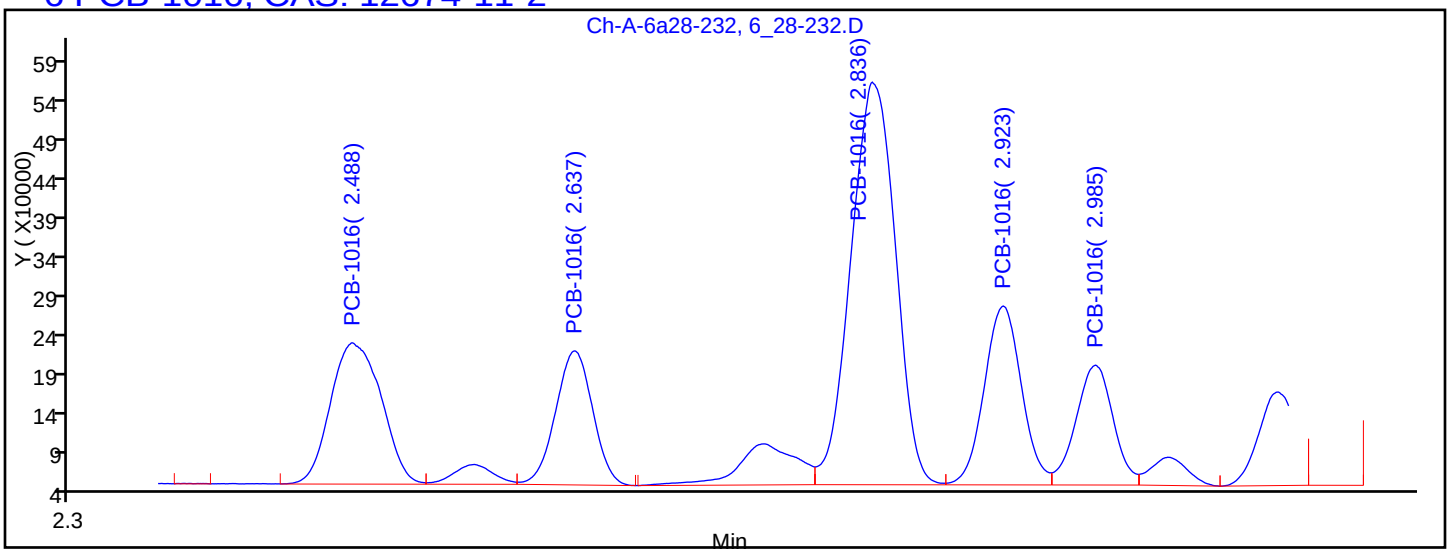
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

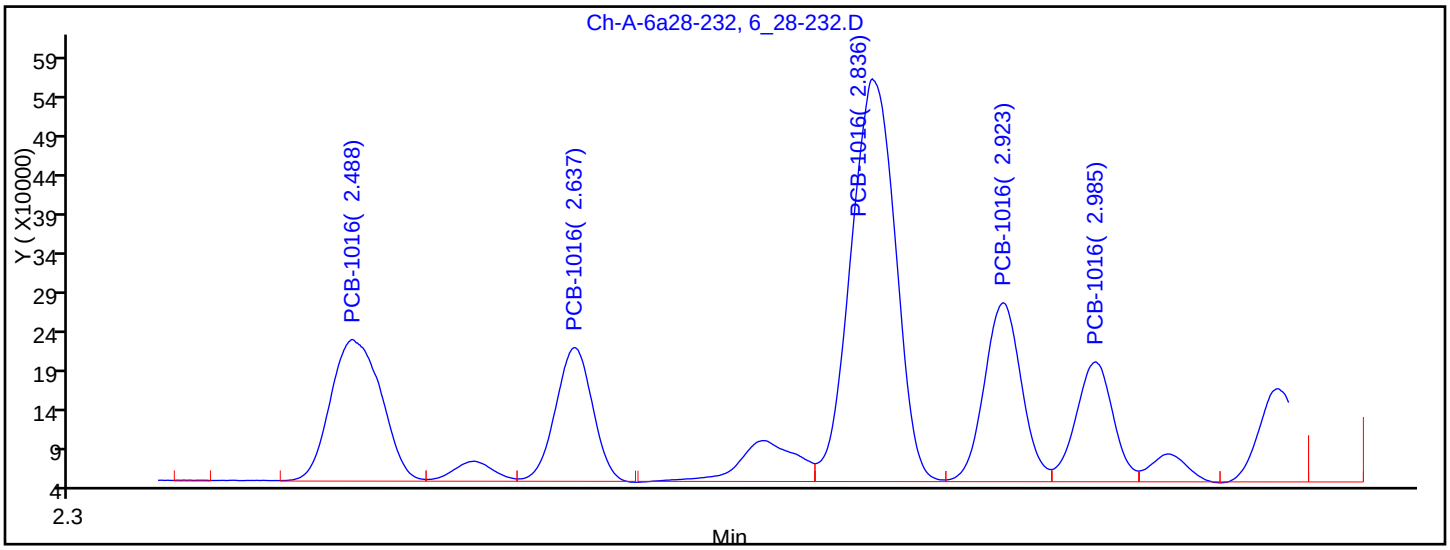
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.488	Response = 417418
2.637	Response = 290065
2.836	Response = 1050751
2.923	Response = 389503
2.985	Response = 260124



Manual Integration Results

2.488	Response = 419664	M
2.637	Response = 287970	M
2.836	Response = 1051531	M
2.923	Response = 389907	M
2.985	Response = 260306	M

Reviewer: owenj, 24-Jul-2017 15:10:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 25-Jul-2017 10:48:20 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-232.D

Injection Date: 24-Jul-2017 14:48:33 Instrument ID: HP6890-6

Lims ID: CCVIS

Client ID:

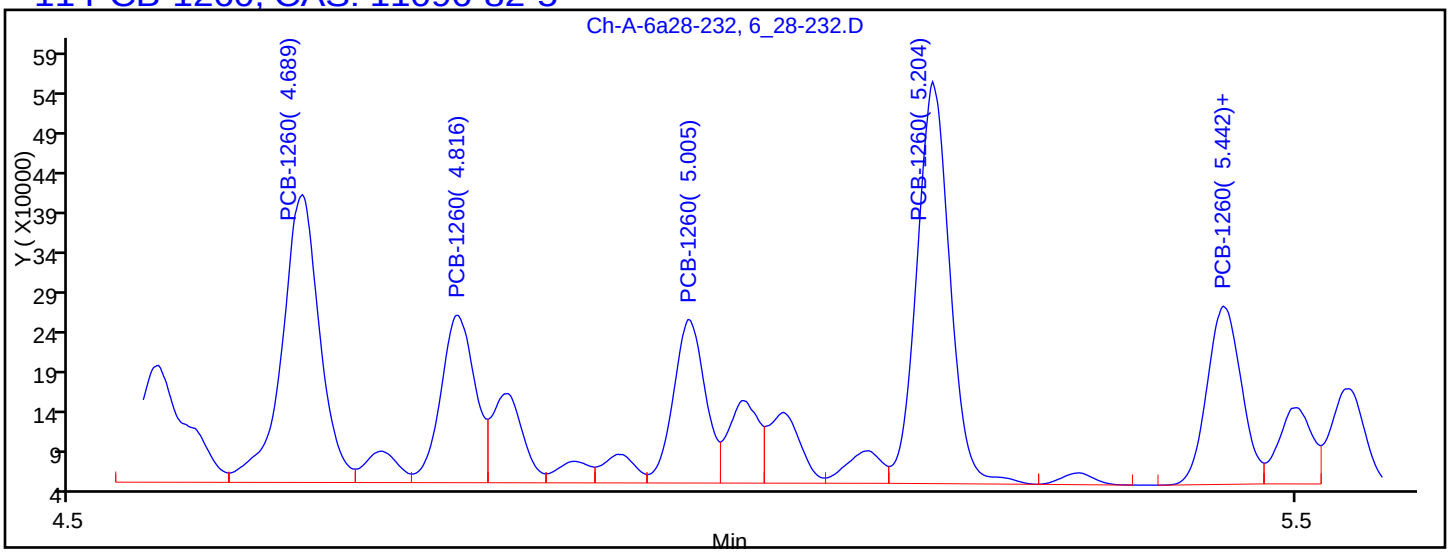
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

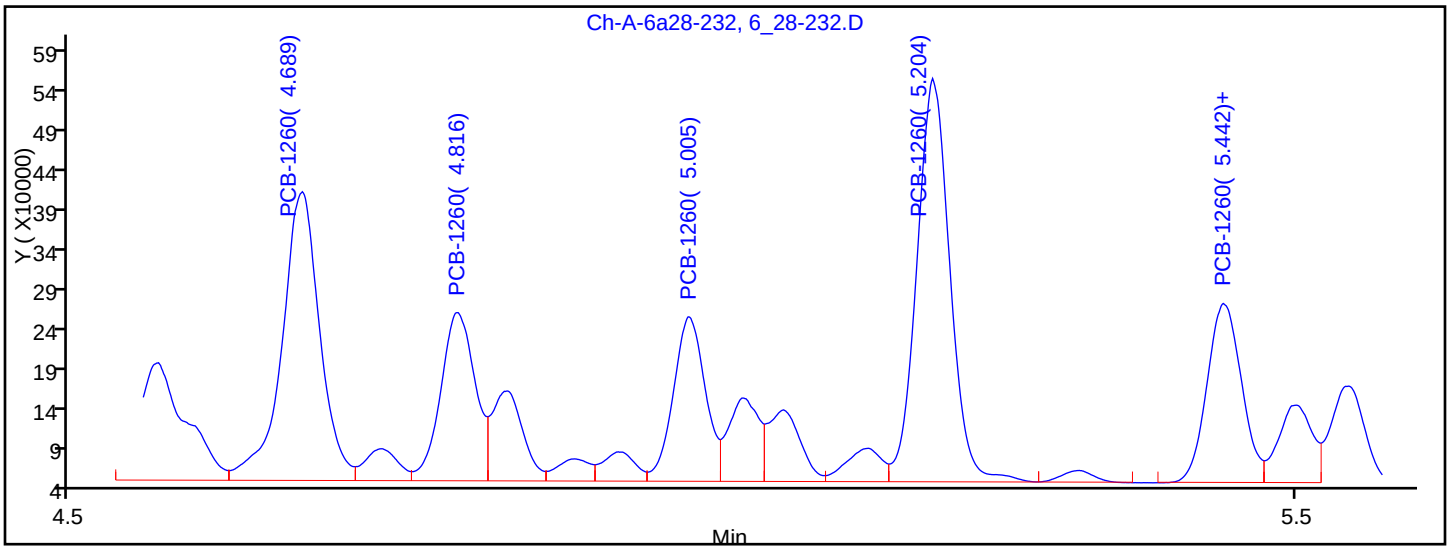
Column: Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.689	Response = 773121
4.816	Response = 409812
5.005	Response = 370406
5.204	Response = 944550
5.442	Response = 435756



Manual Integration Results

4.689	Response = 775896	M
4.816	Response = 411977	M
5.005	Response = 373176	M
5.204	Response = 948236	M
5.442	Response = 437106	M

Reviewer: owenj, 24-Jul-2017 15:10:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368358/4 Calibration Date: 07/24/2017 14:48

Instrument ID: HP6890-6 Calib Start Date: 06/21/2017 11:38

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 06/21/2017 13:13

Lab File ID: 6_28-232.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0409		0.712	0.500	42.4*	20.0
PCB-1016 Peak 2	Lin1		0.0890		0.642	0.500	28.5*	20.0
PCB-1016 Peak 3	Lin1		0.0338		0.695	0.500	38.9*	20.0
PCB-1016 Peak 4	Lin1		0.0187		0.692	0.500	38.4*	20.0
PCB-1016 Peak 5	Lin1		0.0370		0.671	0.500	34.2*	20.0
PCB-1260 Peak 1	Lin1		0.0349		0.664	0.500	32.8*	20.0
PCB-1260 Peak 2	Lin1		0.0316		0.828	0.500	65.6*	20.0
PCB-1260 Peak 3	Lin1		0.0264		0.690	0.500	38.0*	20.0
PCB-1260 Peak 4	Lin1		0.0729		0.740	0.500	47.9*	20.0
PCB-1260 Peak 5	Lin1		0.0369		0.710	0.500	41.9*	20.0
Tetrachloro-m-xylene	Lin1		1.312		0.0164	0.0125	31.4*	20.0
DCB Decachlorobiphenyl	Lin1		0.3785		0.0160	0.0125	27.7*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368358/4 Calibration Date: 07/24/2017 14:48

Instrument ID: HP6890-6 Calib Start Date: 06/21/2017 11:38

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 06/21/2017 13:13

Lab File ID: 6_28-232.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.49	2.46	2.52
PCB-1016 Peak 2	2.81	2.78	2.84
PCB-1016 Peak 3	2.94	2.91	2.97
PCB-1016 Peak 4	3.08	3.05	3.11
PCB-1016 Peak 5	3.32	3.29	3.35
PCB-1260 Peak 1	4.70	4.67	4.73
PCB-1260 Peak 2	4.74	4.71	4.77
PCB-1260 Peak 3	5.01	4.98	5.04
PCB-1260 Peak 4	5.14	5.11	5.17
PCB-1260 Peak 5	5.48	5.45	5.51
Tetrachloro-m-xylene	1.73	1.70	1.76
DCB Decachlorobiphenyl	6.39	6.36	6.42

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-232.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 24-Jul-2017 14:48:33 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub3

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:48:19 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:48:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.998	0.998	0.000	14730023	0.5000	0.5000	
2	1.101	1.101	0.000	196142590	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.894	1.894	0.000	347658	0.0125	0.0137	M
2	1.725	1.725	0.000	6431009	0.0125	0.0164	
						RPD = 17.97	
6 PCB-1016							M
1	2.488	2.488	0.000	419664	0.5000	0.5446	M
1	2.637	2.637	0.000	287970	0.5000	0.5753	M
1	2.836	2.836	0.000	1051531	0.5000	0.5565	M
1	2.923	2.923	0.000	389907	0.5000	0.5754	M
1	2.985	2.985	0.000	260306	0.5000	0.5637	M
		Average of Peak Amounts =				0.5631	
2	2.494	2.494	0.000	8017497	0.5000	0.7119	
2	2.814	2.814	0.000	17451130	0.5000	0.6424	
2	2.935	2.935	0.000	6621178	0.5000	0.6946	
2	3.075	3.075	0.000	3664048	0.5000	0.6921	
2	3.317	3.317	0.000	7252177	0.5000	0.6710	
		Average of Peak Amounts =				0.6824	
						RPD = 19.16	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.689	4.689	0.000	775896	0.5000	0.5415	M
1	4.816	4.816	0.000	411977	0.5000	0.4684	M
1	5.005	5.005	0.000	373176	0.5000	0.5496	M
1	5.204	5.204	0.000	948236	0.5000	0.4894	M
1	5.442	5.442	0.000	437106	0.5000	0.5170	M
		Average of Peak Amounts =				0.5132	
2	4.695	4.695	0.000	6846219	0.5000	0.6642	
2	4.741	4.741	0.000	6204230	0.5000	0.8281	
2	5.006	5.006	0.000	5177825	0.5000	0.6898	
2	5.142	5.142	0.000	14293251	0.5000	0.7396	
2	5.478	5.478	0.000	7235090	0.5000	0.7097	
		Average of Peak Amounts =				0.7263	
						RPD = 34.38	
9 1260 Res 1							M
1	5.442	5.442	0.000	437106	NR	NR	M
2	5.006	5.006	0.000	5177825	NR	NR	
						RPD = NaN	
14 1260 Res 2							M
1	5.544	5.544	0.000	227339	NR	NR	M
2	5.073	5.073	0.000	4318819	NR	NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.453	6.453	0.000	180368	0.0125	0.0138	
2	6.387	6.387	0.000	1855768	0.0125	0.0160	
						RPD = 14.73	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00007 Amount Added: 1.00 Units: ml

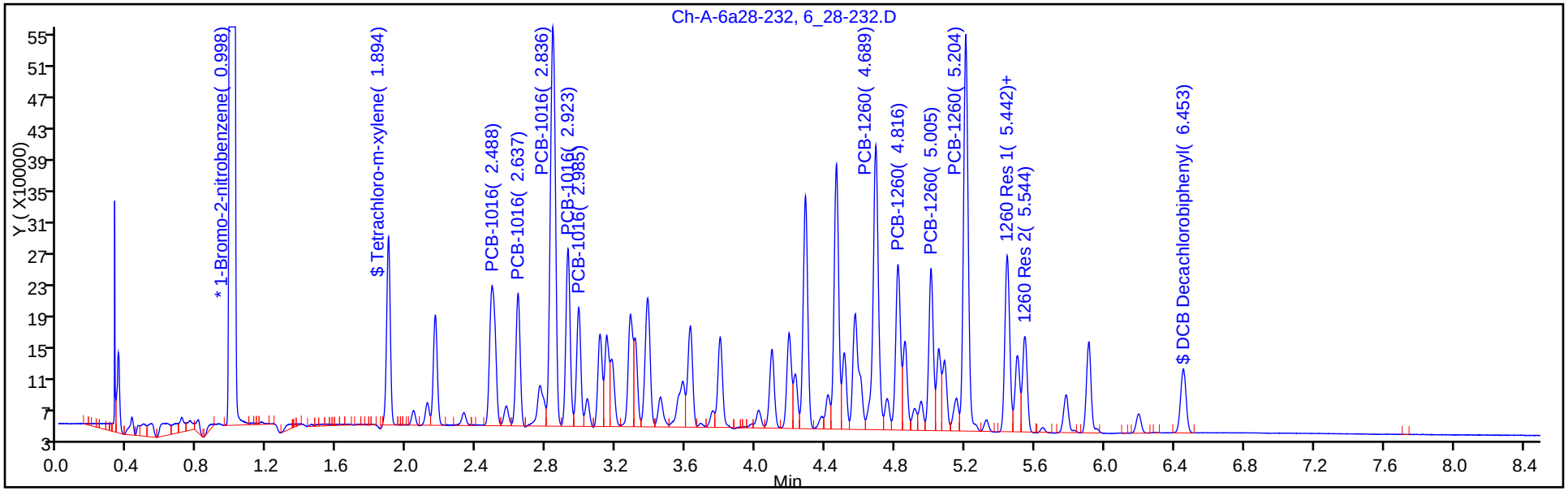
Report Date: 25-Jul-2017 10:48:20 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

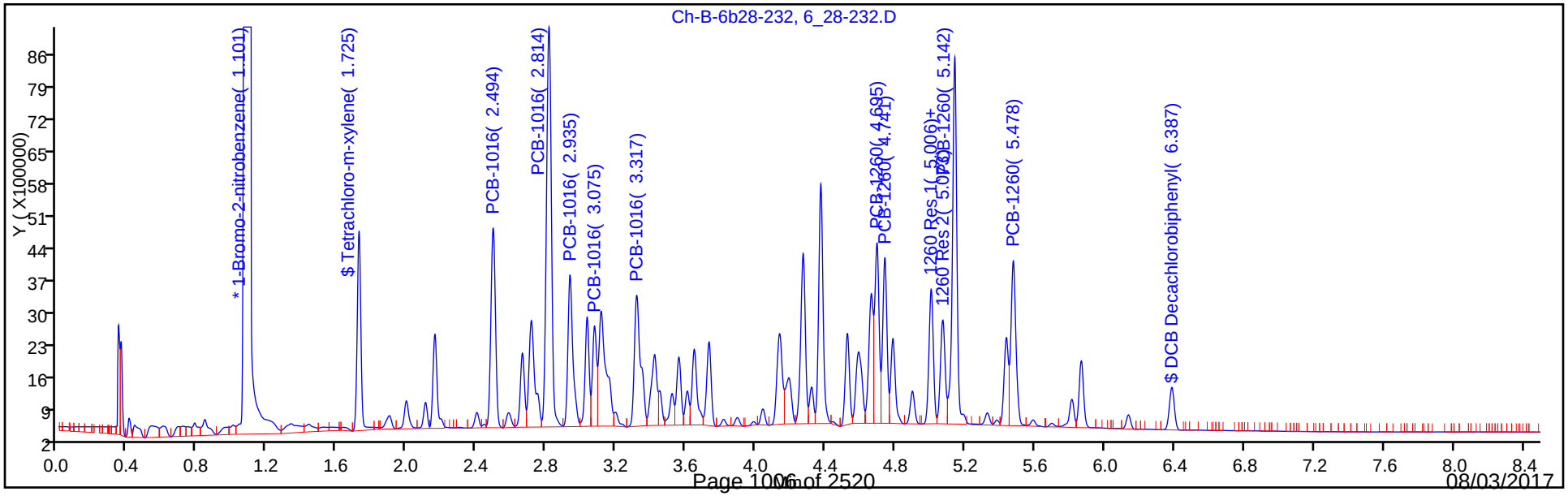
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-232.D

Injection Date:	24-Jul-2017 14:48:33	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/5 Calibration Date: 07/24/2017 15:04

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 04:13

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 02/23/2017 04:45

Lab File ID: 6_28-233.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0048		0.449	0.500	-10.2	20.0
PCB-1221 Peak 2	Lin1		0.0084		0.463	0.500	-7.3	20.0
PCB-1221 Peak 3	Lin1		0.0056		0.510	0.500	2.0	20.0
PCB-1221 Peak 4	Lin1		0.0223		0.518	0.500	3.5	20.0
PCB-1254 Peak 1	Lin1		0.0483		0.480	0.500	-3.9	20.0
PCB-1254 Peak 2	Lin1		0.0554		0.466	0.500	-6.9	20.0
PCB-1254 Peak 3	Lin1		0.0554		0.464	0.500	-7.1	20.0
PCB-1254 Peak 4	Lin1		0.0328		0.460	0.500	-8.0	20.0
PCB-1254 Peak 5	Lin1		0.0449		0.463	0.500	-7.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/5 Calibration Date: 07/24/2017 15:04

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 04:13

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 02/23/2017 04:45

Lab File ID: 6_28-233.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.45	1.42	1.48
PCB-1221 Peak 2	2.04	2.01	2.07
PCB-1221 Peak 3	2.12	2.09	2.15
PCB-1221 Peak 4	2.16	2.13	2.19
PCB-1254 Peak 1	3.80	3.77	3.83
PCB-1254 Peak 2	4.10	4.07	4.13
PCB-1254 Peak 3	4.29	4.26	4.32
PCB-1254 Peak 4	4.51	4.48	4.54
PCB-1254 Peak 5	4.69	4.66	4.72

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-233.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jul-2017 15:04:34 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:48:44 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:48:44

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.999	0.999	0.000	14729585	0.5000	0.5000	
2	1.102	1.102	0.000	195400447	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							M
1	1.453	1.453	0.000	70444	0.5000	0.4489	M
1	2.038	2.038	0.000	124288	0.5000	0.4633	M
1	2.117	2.117	0.000	81974	0.5000	0.5098	M
1	2.163	2.163	0.000	329011	0.5000	0.5176	M
		Average of Peak Amounts =				0.4849	
2	1.437	1.437	0.000	1480206	0.5000	0.7461	M
2	1.996	1.996	0.000	2778869	0.5000	0.7766	
2	2.107	2.107	0.000	1652201	0.5000	0.8464	
2	2.159	2.159	0.000	4755431	0.5000	0.7206	
		Average of Peak Amounts =				0.7724	
						RPD = 45.74	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	3.798	3.798	0.000	711162	0.5000	0.4805	
1	4.096	4.096	0.000	816285	0.5000	0.4656	
1	4.289	4.289	0.000	815659	0.5000	0.4643	
1	4.510	4.510	0.000	482633	0.5000	0.4599	
1	4.689	4.689	0.000	661488	0.5000	0.4634	
		Average of Peak Amounts =				0.4667	
2	3.648	3.648	0.000	7527033	0.5000	0.7080	
2	3.733	3.733	0.000	8677481	0.5000	0.7300	
2	4.127	4.127	0.000	11386852	0.5000	0.6273	
2	4.256	4.256	0.000	13448969	0.5000	0.7237	
2	4.695	4.695	0.000	9603258	0.5000	0.8778	
		Average of Peak Amounts =				0.7334	
						RPD = 44.43	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00009 Amount Added: 1.00 Units: mL

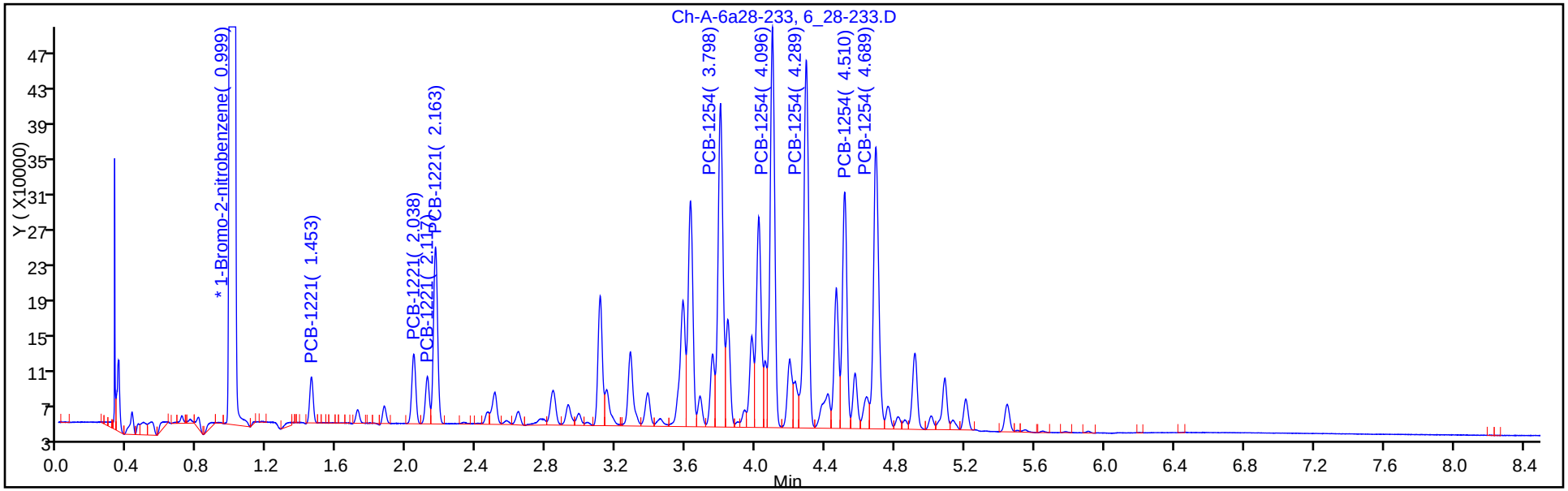
Report Date: 25-Jul-2017 10:48:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

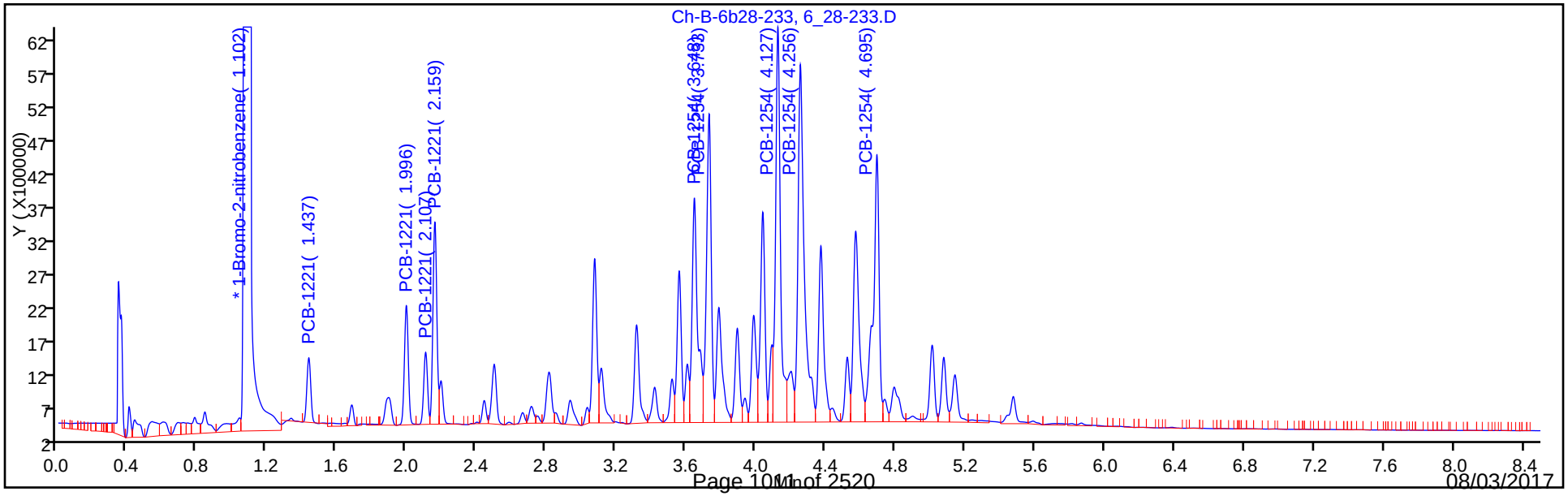
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-233.D

Injection Date:	24-Jul-2017 15:04:34	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 25-Jul-2017 10:48:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-233.D

Injection Date: 24-Jul-2017 15:04:34 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

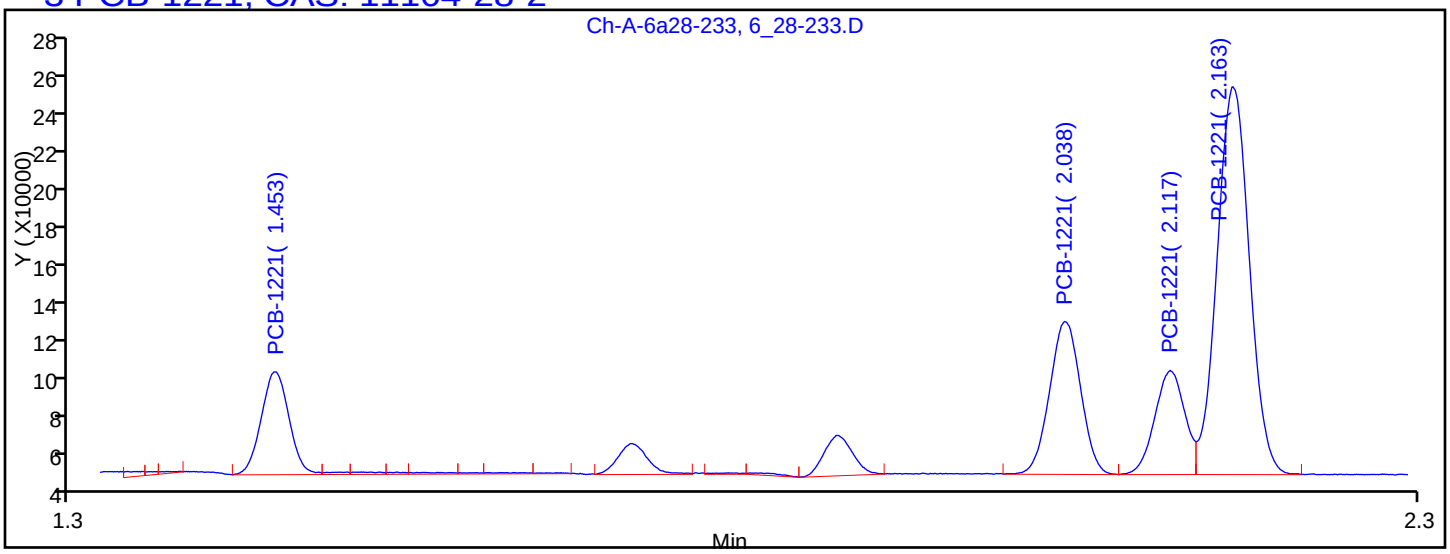
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

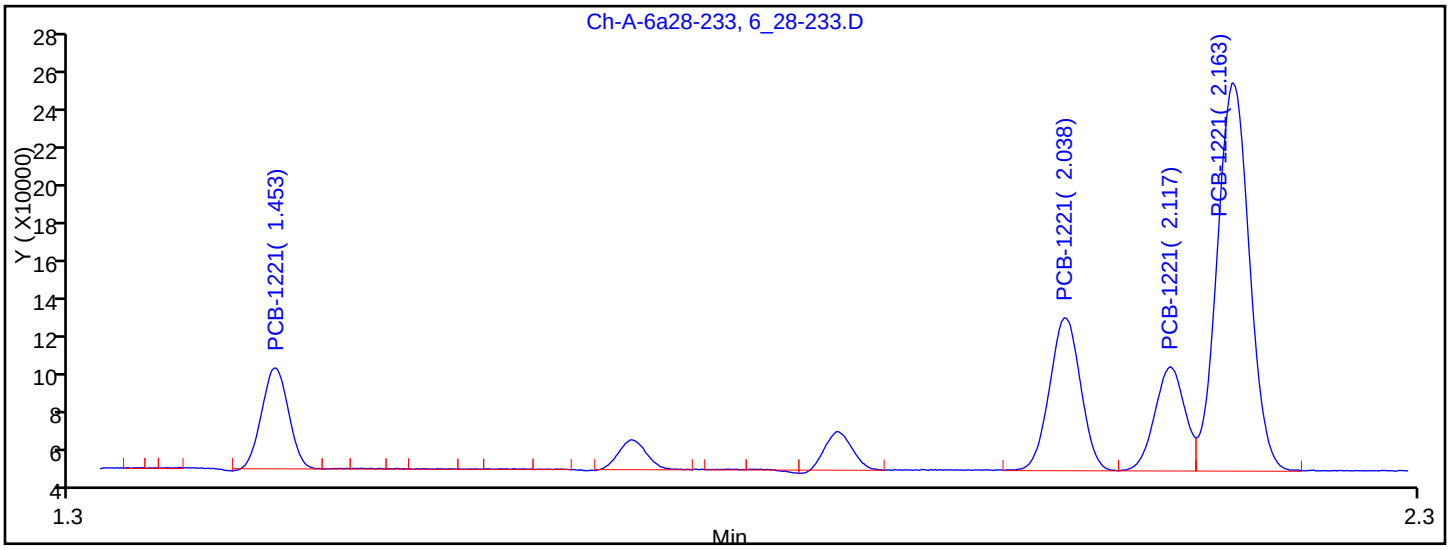
Column: Detector Ch-A-7A136

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.453	Response = 74678	
2.038	Response = 124084	
2.117	Response = 81725	
2.163	Response = 328229	



Manual Integration Results

1.453	Response = 70444	M
2.038	Response = 124288	M
2.117	Response = 81974	M
2.163	Response = 329011	M

Reviewer: owenj, 24-Jul-2017 15:23:48

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/5 Calibration Date: 07/24/2017 15:04

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 04:13

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 02/23/2017 04:45

Lab File ID: 6_28-233.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0076		0.746	0.500	49.2*	20.0
PCB-1221 Peak 2	Lin1		0.0142		0.777	0.500	55.3*	20.0
PCB-1221 Peak 3	Lin1		0.0085		0.846	0.500	69.3*	20.0
PCB-1221 Peak 4	Lin1		0.0243		0.721	0.500	44.1*	20.0
PCB-1254 Peak 1	Lin1		0.0385		0.708	0.500	41.6*	20.0
PCB-1254 Peak 2	Lin1		0.0444		0.730	0.500	46.0*	20.0
PCB-1254 Peak 3	Ave	0.0464	0.0583		0.627	0.500	25.5*	20.0
PCB-1254 Peak 4	Lin1		0.0688		0.724	0.500	44.7*	20.0
PCB-1254 Peak 5	Lin1		0.0492		0.878	0.500	75.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/5 Calibration Date: 07/24/2017 15:04

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 04:13

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 02/23/2017 04:45

Lab File ID: 6_28-233.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.44	1.41	1.47
PCB-1221 Peak 2	2.00	1.97	2.03
PCB-1221 Peak 3	2.11	2.08	2.14
PCB-1221 Peak 4	2.16	2.13	2.19
PCB-1254 Peak 1	3.65	3.62	3.68
PCB-1254 Peak 2	3.73	3.70	3.76
PCB-1254 Peak 3	4.13	4.10	4.16
PCB-1254 Peak 4	4.26	4.23	4.29
PCB-1254 Peak 5	4.70	4.67	4.73

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-233.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jul-2017 15:04:34 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub4

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:48:44 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:48:44

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.999	0.999	0.000	14729585	0.5000	0.5000	
2	1.102	1.102	0.000	195400447	0.5000	0.5000	
						RPD = 0.00	
3 PCB-1221							M
1	1.453	1.453	0.000	70444	0.5000	0.4489	M
1	2.038	2.038	0.000	124288	0.5000	0.4633	M
1	2.117	2.117	0.000	81974	0.5000	0.5098	M
1	2.163	2.163	0.000	329011	0.5000	0.5176	M
		Average of Peak Amounts =				0.4849	
2	1.437	1.437	0.000	1480206	0.5000	0.7461	M
2	1.996	1.996	0.000	2778869	0.5000	0.7766	
2	2.107	2.107	0.000	1652201	0.5000	0.8464	
2	2.159	2.159	0.000	4755431	0.5000	0.7206	
		Average of Peak Amounts =				0.7724	
						RPD = 45.74	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
8 PCB-1254							
1	3.798	3.798	0.000	711162	0.5000	0.4805	
1	4.096	4.096	0.000	816285	0.5000	0.4656	
1	4.289	4.289	0.000	815659	0.5000	0.4643	
1	4.510	4.510	0.000	482633	0.5000	0.4599	
1	4.689	4.689	0.000	661488	0.5000	0.4634	
		Average of Peak Amounts =				0.4667	
2	3.648	3.648	0.000	7527033	0.5000	0.7080	
2	3.733	3.733	0.000	8677481	0.5000	0.7300	
2	4.127	4.127	0.000	11386852	0.5000	0.6273	
2	4.256	4.256	0.000	13448969	0.5000	0.7237	
2	4.695	4.695	0.000	9603258	0.5000	0.8778	
		Average of Peak Amounts =				0.7334	
						RPD = 44.43	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00009 Amount Added: 1.00 Units: mL

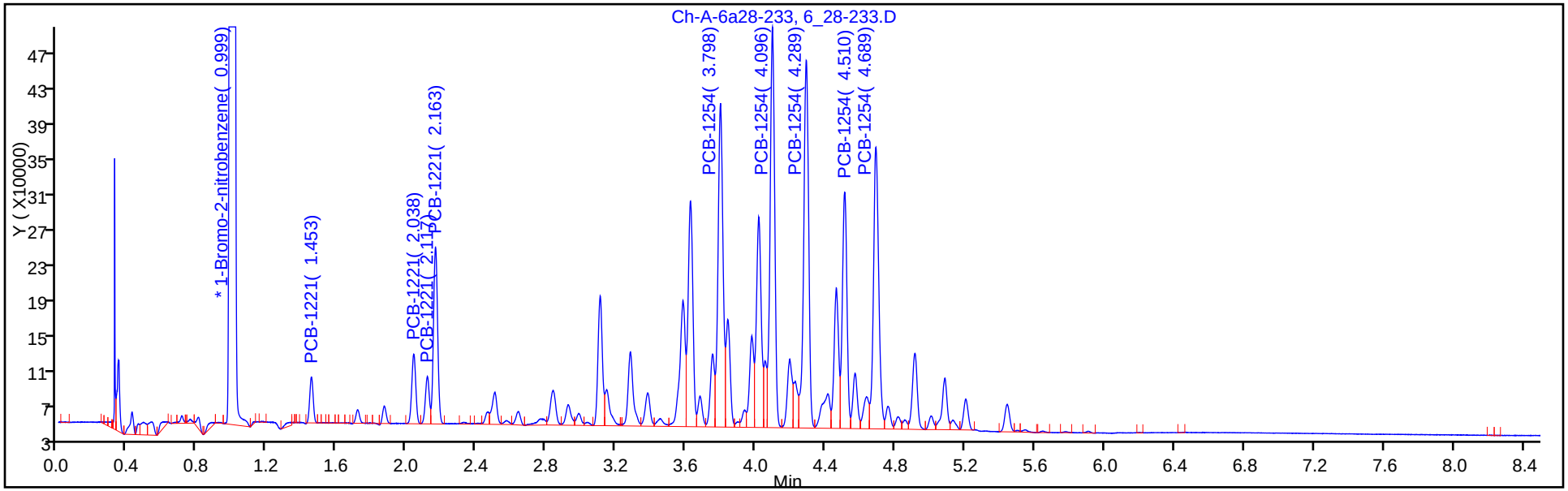
Report Date: 25-Jul-2017 10:48:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

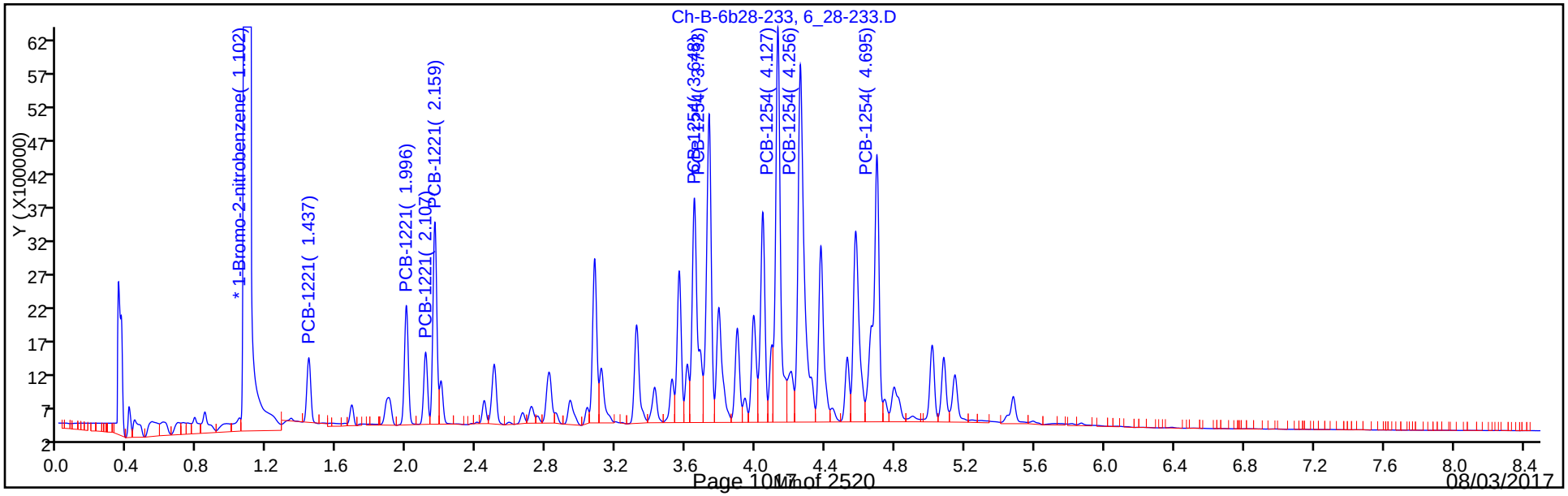
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-233.D

Injection Date:	24-Jul-2017 15:04:34	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 25-Jul-2017 10:48:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-233.D

Injection Date: 24-Jul-2017 15:04:34 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

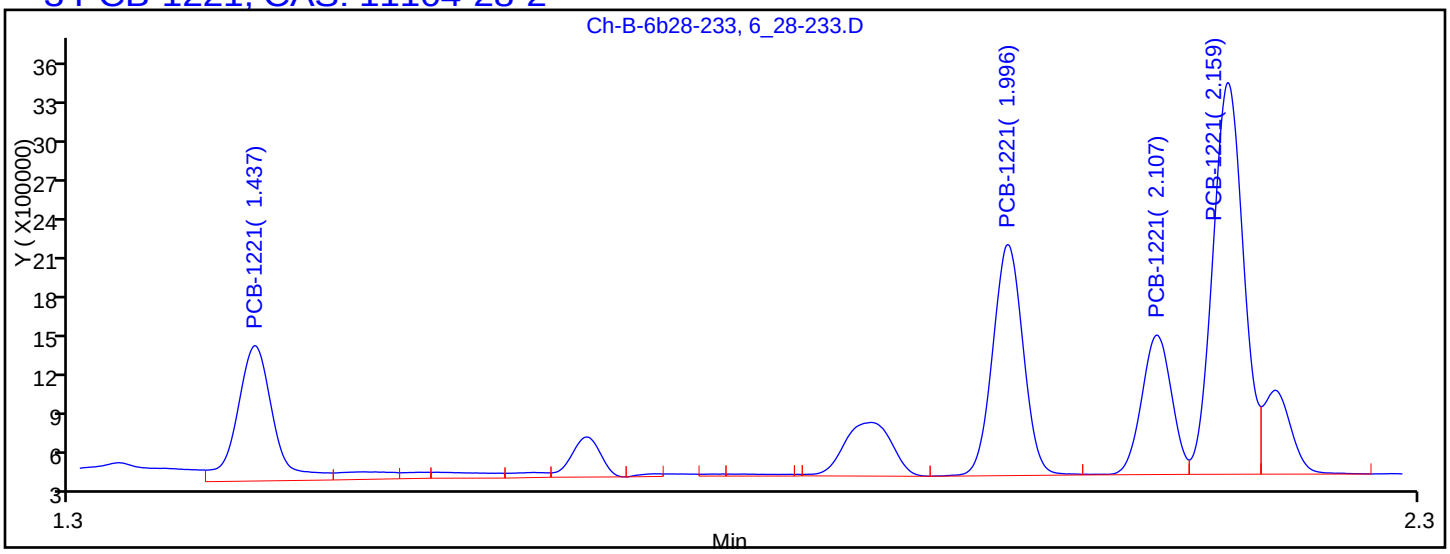
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 5

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

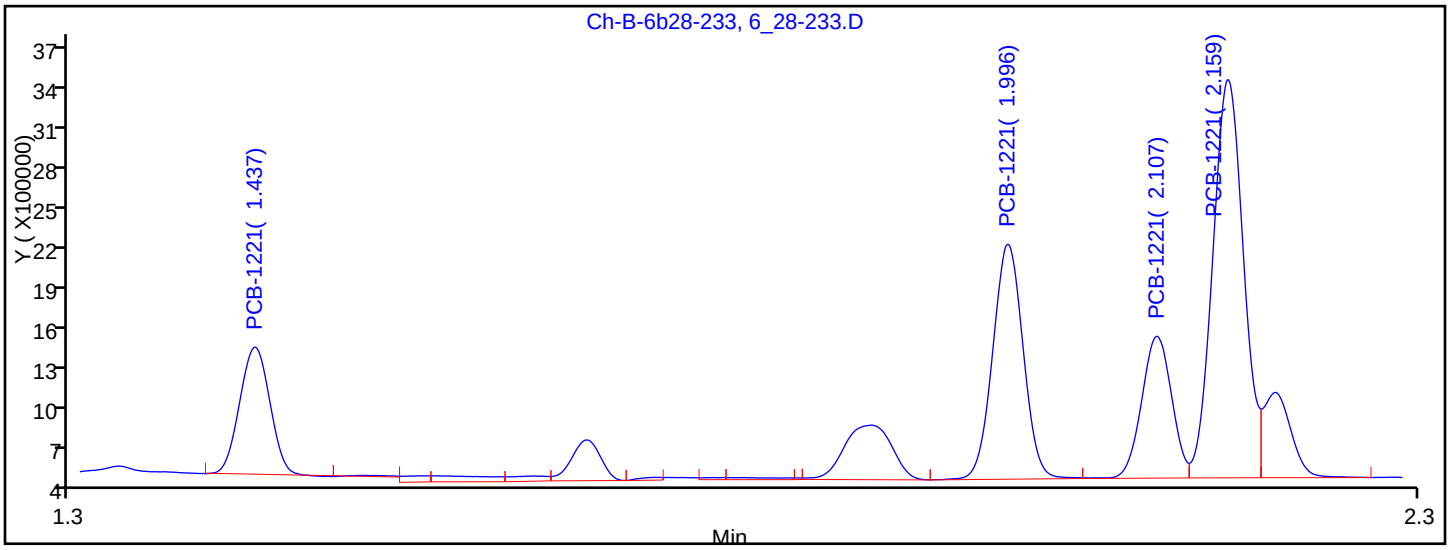
Column: Detector Ch-B-7b136

3 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.437	Response = 1909719
1.996	Response = 2778869
2.107	Response = 1652201
2.159	Response = 4755431



Manual Integration Results

1.437	Response = 1480206	M
1.996	Response = 2778869	
2.107	Response = 1652201	
2.159	Response = 4755431	

Reviewer: owenj, 24-Jul-2017 15:23:41

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/6 Calibration Date: 07/24/2017 15:20

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 05:17

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 02/23/2017 05:49

Lab File ID: 6_28-234.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0207		0.571	0.500	14.3	20.0
PCB-1232 Peak 2	Lin1		0.0098		0.541	0.500	8.1	20.0
PCB-1232 Peak 3	Ave	0.0336	0.0351		0.522	0.500	4.4	20.0
PCB-1232 Peak 4	Lin1		0.0132		0.541	0.500	8.2	20.0
PCB-1232 Peak 5	Ave	0.0085	0.0086		0.502	0.500	0.5	20.0
PCB-1262 Peak 1	Ave	0.0509	0.0482		0.474	0.500	-5.2	20.0
PCB-1262 Peak 2	Ave	0.0375	0.0356		0.474	0.500	-5.1	20.0
PCB-1262 Peak 3	Ave	0.0896	0.0857		0.478	0.500	-4.4	20.0
PCB-1262 Peak 4	Ave	0.0327	0.0321		0.491	0.500	-1.9	20.0
PCB-1262 Peak 5	Ave	0.0328	0.0332		0.506	0.500	1.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/6 Calibration Date: 07/24/2017 15:20

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 05:17

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 02/23/2017 05:49

Lab File ID: 6_28-234.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.16	2.13	2.19
PCB-1232 Peak 2	2.64	2.61	2.67
PCB-1232 Peak 3	2.84	2.81	2.87
PCB-1232 Peak 4	2.92	2.89	2.95
PCB-1232 Peak 5	2.99	2.96	3.02
PCB-1262 Peak 1	4.82	4.79	4.85
PCB-1262 Peak 2	5.01	4.98	5.04
PCB-1262 Peak 3	5.21	5.18	5.24
PCB-1262 Peak 4	5.50	5.47	5.53
PCB-1262 Peak 5	5.54	5.51	5.57

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-234.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jul-2017 15:20:29 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:49:02 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:49:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.000	1.000	0.000	13385340	0.5000	0.5000	
2	1.102	1.102	0.000	190887117	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.163	2.163	0.000	276939	0.5000	0.5714	M
1	2.638	2.638	0.000	131431	0.5000	0.5407	M
1	2.837	2.837	0.000	469182	0.5000	0.5220	M
1	2.924	2.924	0.000	176014	0.5000	0.5412	M
1	2.986	2.986	0.000	114407	0.5000	0.5023	M
		Average of Peak Amounts =				0.5355	
2	2.161	2.161	0.000	3942801	0.5000	0.7025	
2	2.496	2.496	0.000	4335205	0.5000	0.7856	
2	2.815	2.815	0.000	8157404	0.5000	0.7404	
2	2.936	2.936	0.000	3162473	0.5000	0.6967	
2	3.033	3.033	0.000	1861079	0.5000	0.6722	
		Average of Peak Amounts =				0.7195	
						RPD = 29.32	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	4.818	4.818	0.000	645435	0.5000	0.4738	M
1	5.006	5.006	0.000	476686	0.5000	0.4743	M
1	5.205	5.205	0.000	1146579	0.5000	0.4779	M
1	5.501	5.501	0.000	429402	0.5000	0.4907	M
1	5.543	5.543	0.000	443978	0.5000	0.5061	M
		Average of Peak Amounts =				0.4846	
2	4.741	4.741	0.000	9836411	0.5000	0.7619	
2	5.007	5.007	0.000	6562192	0.5000	0.5941	
2	5.141	5.141	0.000	16479700	0.5000	0.6882	
2	5.437	5.437	0.000	6086385	0.5000	0.6729	
2	5.477	5.477	0.000	8398707	0.5000	0.6318	
		Average of Peak Amounts =				0.6698	
						RPD = 32.09	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00009 Amount Added: 1.00 Units: mL

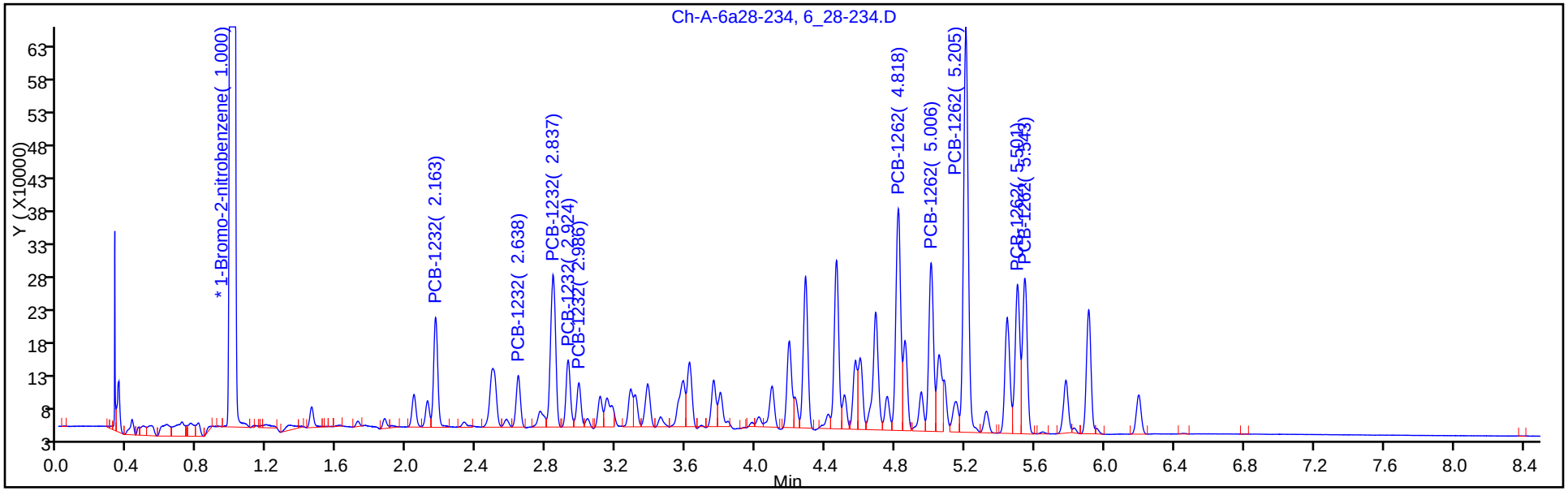
Report Date: 25-Jul-2017 10:49:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

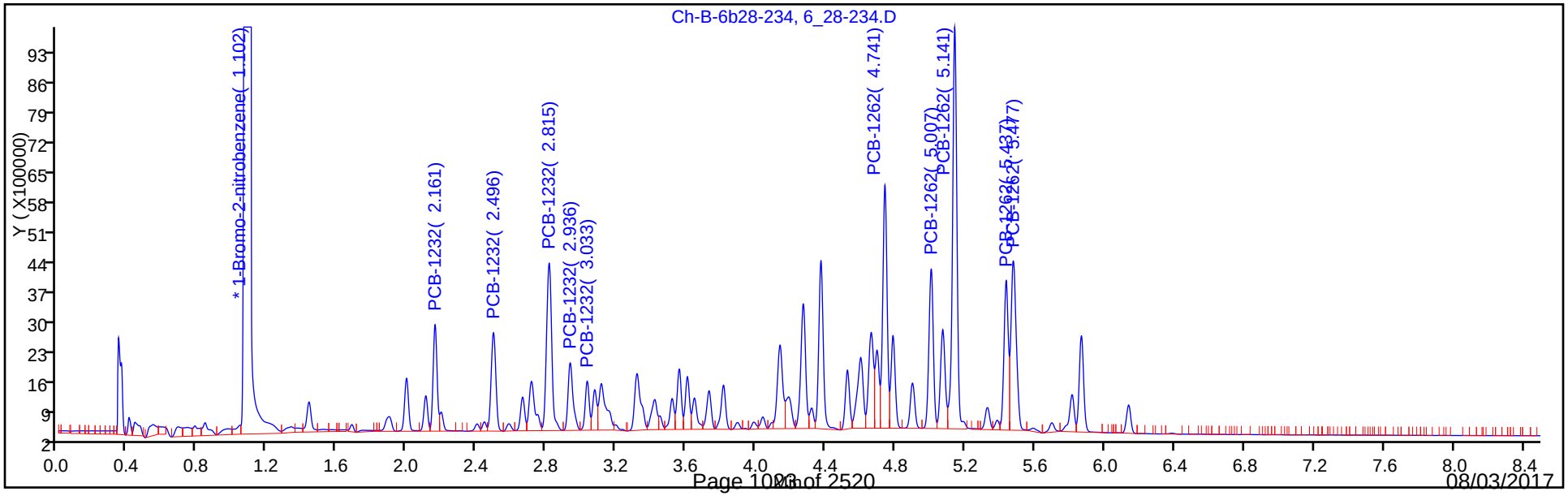
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-234.D

Injection Date:	24-Jul-2017 15:20:29	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 25-Jul-2017 10:49:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-234.D

Injection Date: 24-Jul-2017 15:20:29 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

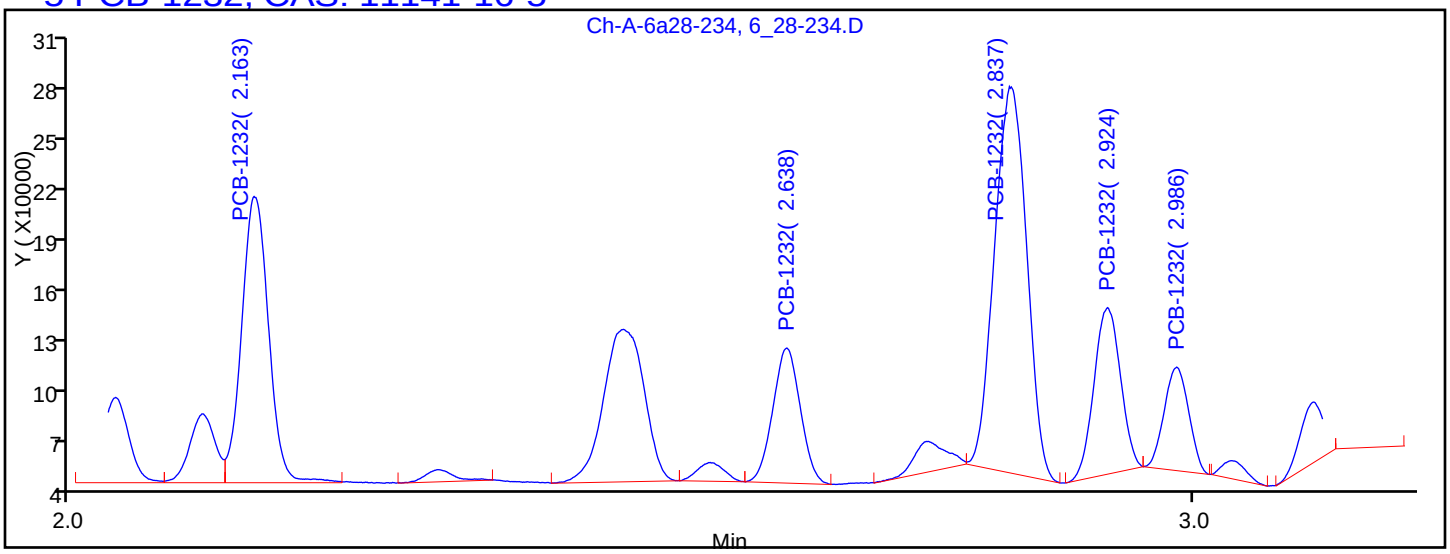
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

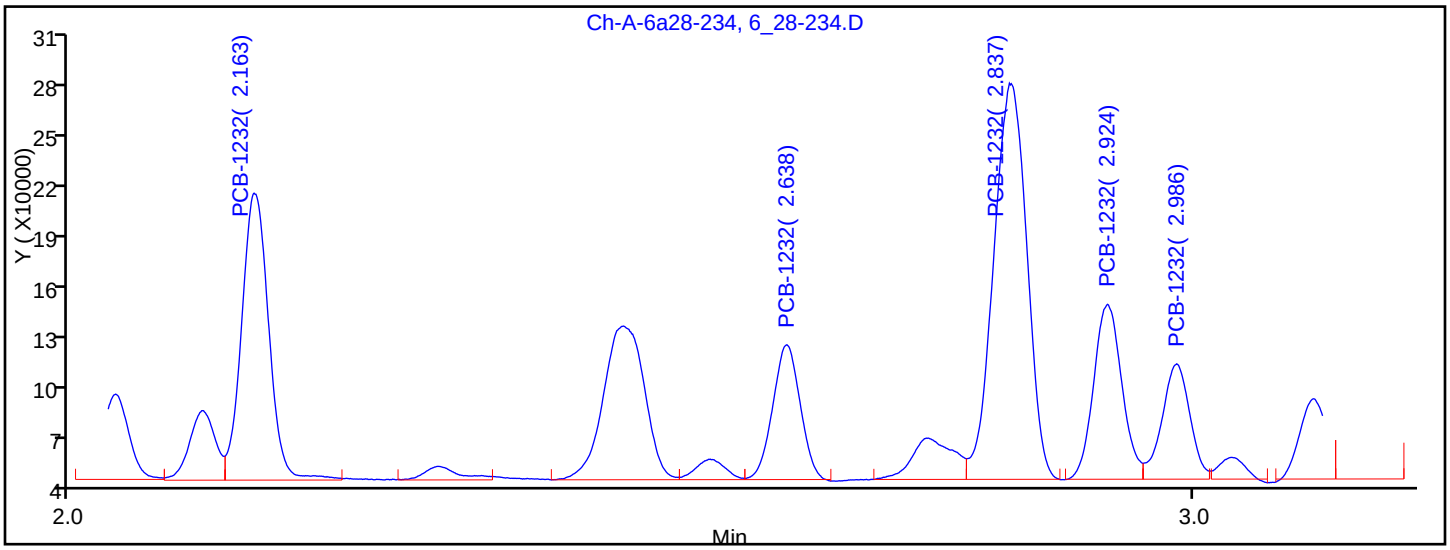
Column: Detector Ch-A-7A136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.163	Response = 274583
2.638	Response = 132151
2.837	Response = 443137
2.924	Response = 157744
2.986	Response = 90216



Manual Integration Results

2.163	Response = 276939	M
2.638	Response = 131431	M
2.837	Response = 469182	M
2.924	Response = 176014	M
2.986	Response = 114407	M

Reviewer: owenj, 24-Jul-2017 15:48:32

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 25-Jul-2017 10:49:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-234.D

Injection Date: 24-Jul-2017 15:20:29 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

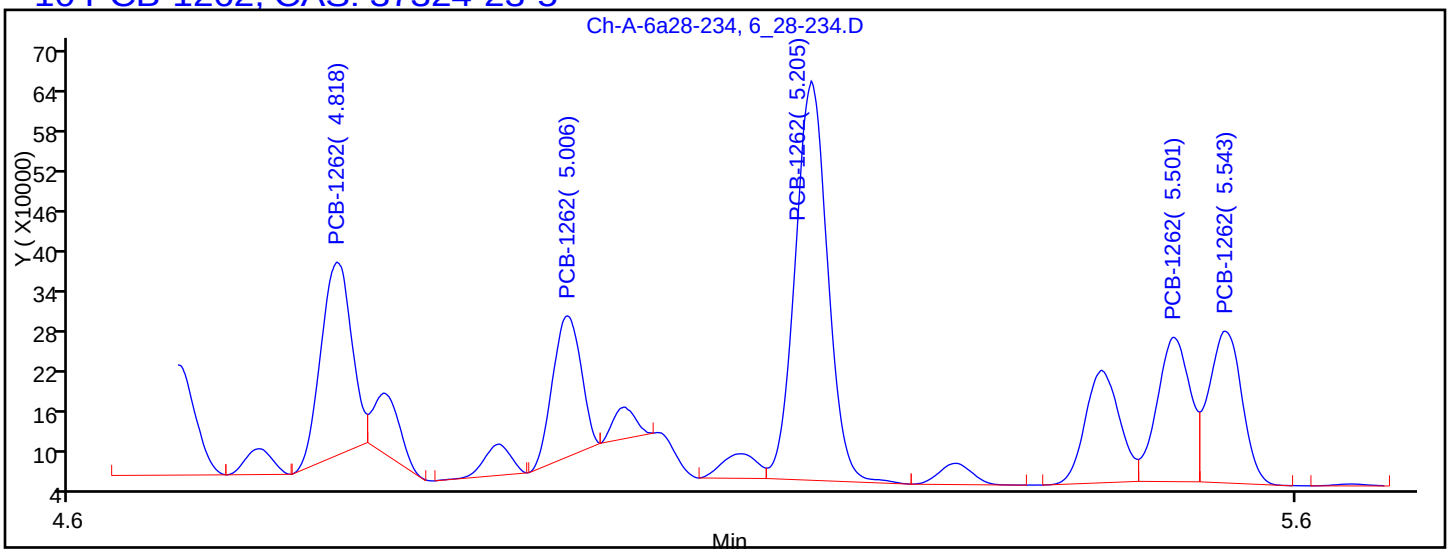
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

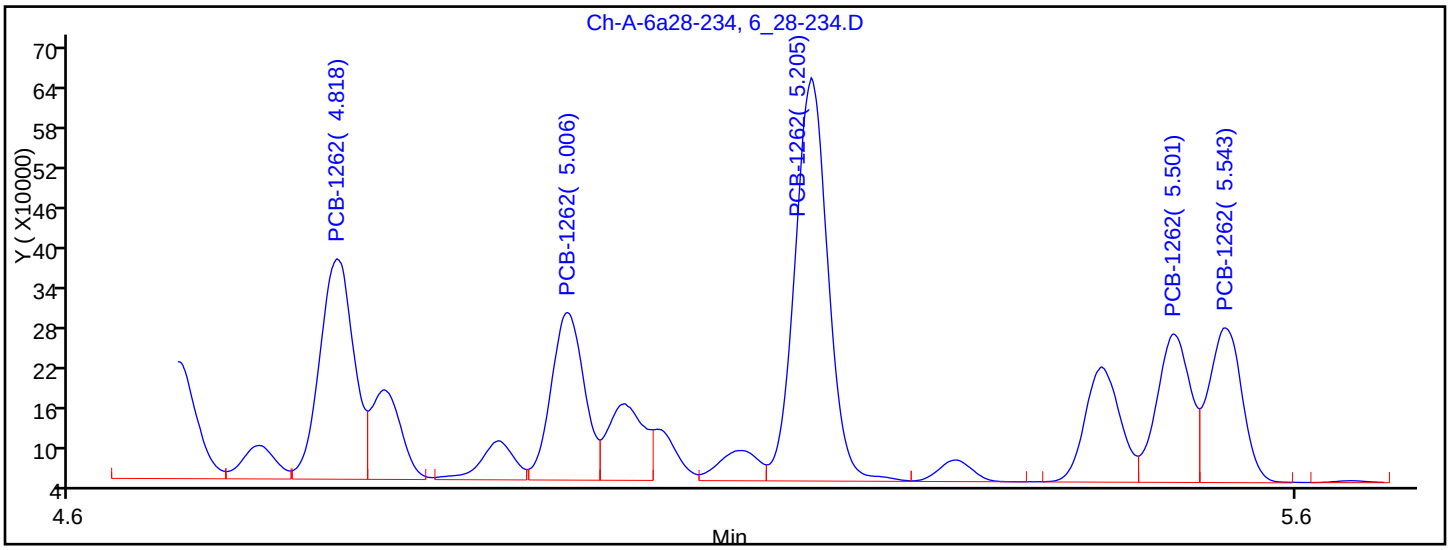
Column: Detector Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.818	Response = 510981
5.006	Response = 343575
5.205	Response = 1113656
5.501	Response = 410967
5.543	Response = 429431



Manual Integration Results

4.818	Response = 645435	M
5.006	Response = 476686	M
5.205	Response = 1146579	M
5.501	Response = 429402	M
5.543	Response = 443978	M

Reviewer: owenj, 24-Jul-2017 15:48:40

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/6 Calibration Date: 07/24/2017 15:20

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 05:17

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 02/23/2017 05:49

Lab File ID: 6_28-234.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0207		0.702	0.500	40.5*	20.0
PCB-1232 Peak 2	Lin1		0.0227		0.786	0.500	57.1*	20.0
PCB-1232 Peak 3	Lin1		0.0427		0.740	0.500	48.1*	20.0
PCB-1232 Peak 4	Ave	0.0119	0.0166		0.697	0.500	39.3*	20.0
PCB-1232 Peak 5	Lin1		0.0098		0.672	0.500	34.4*	20.0
PCB-1262 Peak 1	Ave	0.0338	0.0515		0.762	0.500	52.4*	20.0
PCB-1262 Peak 2	Ave	0.0289	0.0344		0.594	0.500	18.8	20.0
PCB-1262 Peak 3	Ave	0.0627	0.0863		0.688	0.500	37.6*	20.0
PCB-1262 Peak 4	Ave	0.0237	0.0319		0.673	0.500	34.6*	20.0
PCB-1262 Peak 5	Ave	0.0348	0.0440		0.632	0.500	26.4*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/6 Calibration Date: 07/24/2017 15:20

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 05:17

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 02/23/2017 05:49

Lab File ID: 6_28-234.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.16	2.13	2.19
PCB-1232 Peak 2	2.50	2.47	2.53
PCB-1232 Peak 3	2.82	2.79	2.85
PCB-1232 Peak 4	2.94	2.91	2.97
PCB-1232 Peak 5	3.03	3.00	3.06
PCB-1262 Peak 1	4.74	4.71	4.77
PCB-1262 Peak 2	5.01	4.98	5.04
PCB-1262 Peak 3	5.14	5.11	5.17
PCB-1262 Peak 4	5.44	5.41	5.47
PCB-1262 Peak 5	5.48	5.45	5.51

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-234.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jul-2017 15:20:29 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub5

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:49:02 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:49:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.000	1.000	0.000	13385340	0.5000	0.5000	
2	1.102	1.102	0.000	190887117	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1232							M
1	2.163	2.163	0.000	276939	0.5000	0.5714	M
1	2.638	2.638	0.000	131431	0.5000	0.5407	M
1	2.837	2.837	0.000	469182	0.5000	0.5220	M
1	2.924	2.924	0.000	176014	0.5000	0.5412	M
1	2.986	2.986	0.000	114407	0.5000	0.5023	M
		Average of Peak Amounts =				0.5355	
2	2.161	2.161	0.000	3942801	0.5000	0.7025	
2	2.496	2.496	0.000	4335205	0.5000	0.7856	
2	2.815	2.815	0.000	8157404	0.5000	0.7404	
2	2.936	2.936	0.000	3162473	0.5000	0.6967	
2	3.033	3.033	0.000	1861079	0.5000	0.6722	
		Average of Peak Amounts =				0.7195	
						RPD = 29.32	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1262							M
1	4.818	4.818	0.000	645435	0.5000	0.4738	M
1	5.006	5.006	0.000	476686	0.5000	0.4743	M
1	5.205	5.205	0.000	1146579	0.5000	0.4779	M
1	5.501	5.501	0.000	429402	0.5000	0.4907	M
1	5.543	5.543	0.000	443978	0.5000	0.5061	M
		Average of Peak Amounts =				0.4846	
2	4.741	4.741	0.000	9836411	0.5000	0.7619	
2	5.007	5.007	0.000	6562192	0.5000	0.5941	
2	5.141	5.141	0.000	16479700	0.5000	0.6882	
2	5.437	5.437	0.000	6086385	0.5000	0.6729	
2	5.477	5.477	0.000	8398707	0.5000	0.6318	
		Average of Peak Amounts =				0.6698	
						RPD = 32.09	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00009 Amount Added: 1.00 Units: mL

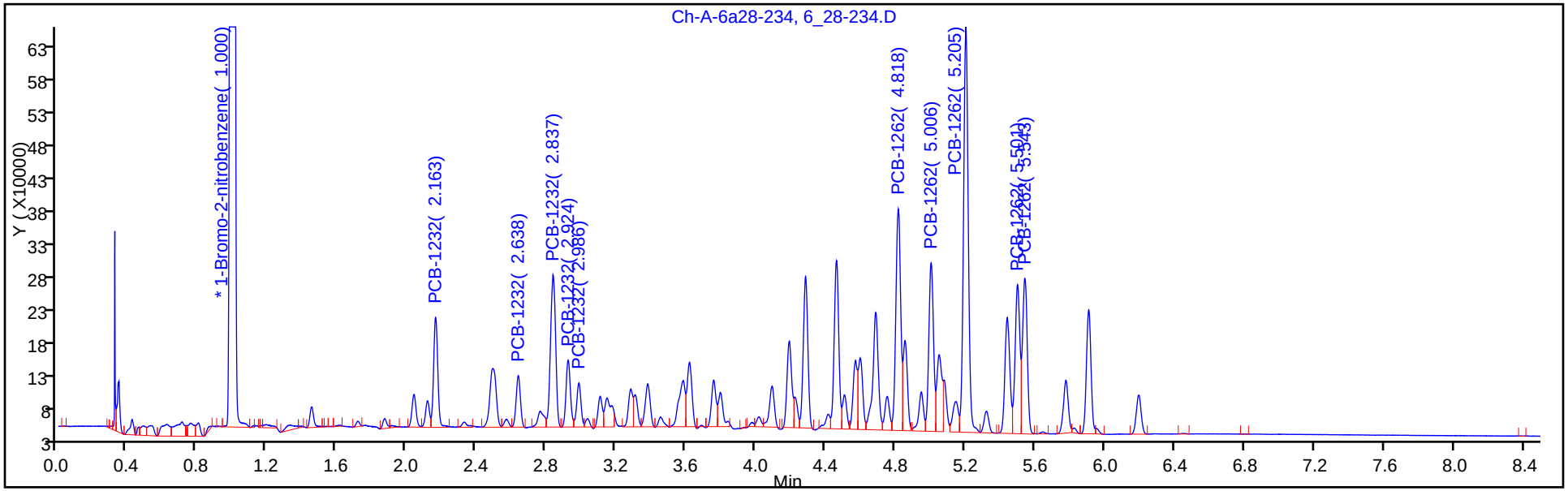
Report Date: 25-Jul-2017 10:49:03 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

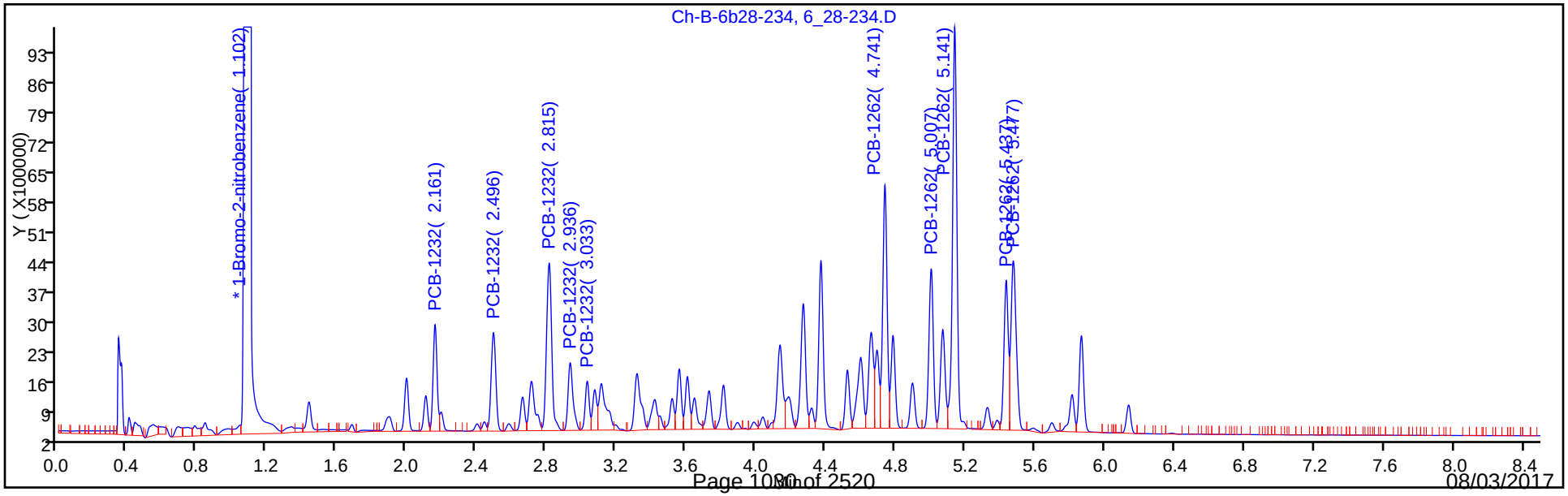
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-234.D

Injection Date:	24-Jul-2017 15:20:29	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/7 Calibration Date: 07/24/2017 15:36

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 06:20

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 02/23/2017 06:52

Lab File ID: 6_28-235.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0563		0.456	0.500	-8.7	20.0
PCB-1242 Peak 2	Lin1		0.0209		0.475	0.500	-5.0	20.0
PCB-1242 Peak 3	Lin1		0.0186		0.473	0.500	-5.4	20.0
PCB-1242 Peak 4	Ave	0.0208	0.0192		0.461	0.500	-7.9	20.0
PCB-1242 Peak 5	Lin1		0.0183		0.454	0.500	-9.3	20.0
PCB-1268 Peak 1	Ave	0.0976	0.0884		0.453	0.500	-9.5	20.0
PCB-1268 Peak 2	Ave	0.0878	0.0778		0.443	0.500	-11.4	20.0
PCB-1268 Peak 3	Ave	0.0708	0.0666		0.470	0.500	-5.9	20.0
PCB-1268 Peak 4	Lin1		0.0264		0.444	0.500	-11.2	20.0
PCB-1268 Peak 5	Ave	0.2297	0.2185		0.476	0.500	-4.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/7 Calibration Date: 07/24/2017 15:36

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 06:20

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 02/23/2017 06:52

Lab File ID: 6_28-235.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.84	2.81	2.87
PCB-1242 Peak 2	2.92	2.89	2.95
PCB-1242 Peak 3	3.38	3.35	3.41
PCB-1242 Peak 4	3.62	3.59	3.65
PCB-1242 Peak 5	3.76	3.73	3.79
PCB-1268 Peak 1	5.50	5.47	5.53
PCB-1268 Peak 2	5.54	5.51	5.57
PCB-1268 Peak 3	5.77	5.74	5.80
PCB-1268 Peak 4	5.91	5.88	5.94
PCB-1268 Peak 5	6.20	6.17	6.23

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-235.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jul-2017 15:36:18 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:50:06 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:50:06

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.000	1.000	0.000	14963529	0.5000	0.5000	
2	1.103	1.103	0.000	201906879	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							M
1	2.839	2.839	0.000	842223	0.5000	0.4563	
1	2.924	2.924	0.000	312366	0.5000	0.4748	
1	3.381	3.381	0.000	278969	0.5000	0.4729	
1	3.618	3.618	0.000	286954	0.5000	0.4606	
1	3.759	3.759	0.000	273271	0.5000	0.4537	
		Average of Peak Amounts =				0.4637	
2	2.816	2.816	0.000	13751510	0.5000	0.6526	M
2	2.936	2.936	0.000	5264110	0.5000	0.7078	M
2	3.318	3.318	0.000	6024615	0.5000	0.6687	M
2	3.562	3.562	0.000	4618719	0.5000	0.6532	M
2	3.816	3.816	0.000	3692089	0.5000	0.5594	M
		Average of Peak Amounts =				0.6484	
						RPD = 33.22	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							M
1	5.503	5.503	0.000	1322668	0.5000	0.4526	
1	5.544	5.544	0.000	1164490	0.5000	0.4431	
1	5.767	5.767	0.000	995954	0.5000	0.4703	
1	5.909	5.909	0.000	395514	0.5000	0.4439	
1	6.198	6.198	0.000	3269268	0.5000	0.4757	
		Average of Peak Amounts =				0.4571	
2	5.436	5.436	0.000	17155356	0.5000	0.7176	M
2	5.475	5.475	0.000	15549314	0.5000	0.7042	M
2	5.699	5.699	0.000	12327945	0.5000	0.6996	M
2	5.868	5.868	0.000	4676280	0.5000	0.6667	M
2	6.139	6.139	0.000	32458143	0.5000	0.6158	
		Average of Peak Amounts =				0.6808	
						RPD = 39.31	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00009 Amount Added: 1.00 Units: ml

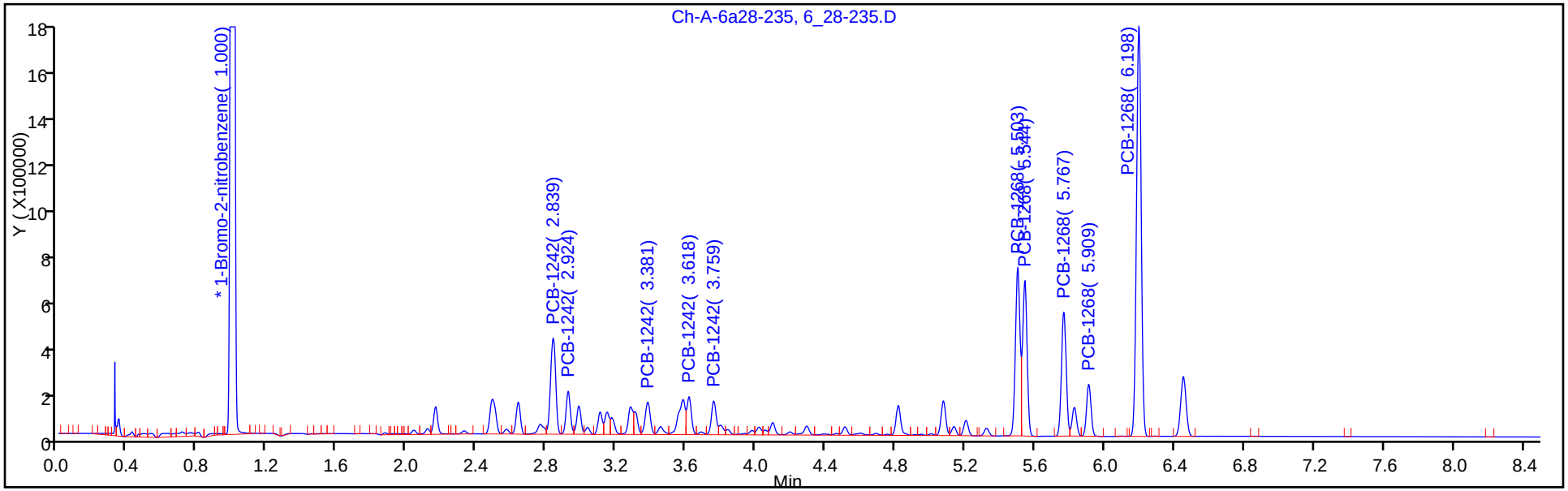
Report Date: 25-Jul-2017 10:50:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

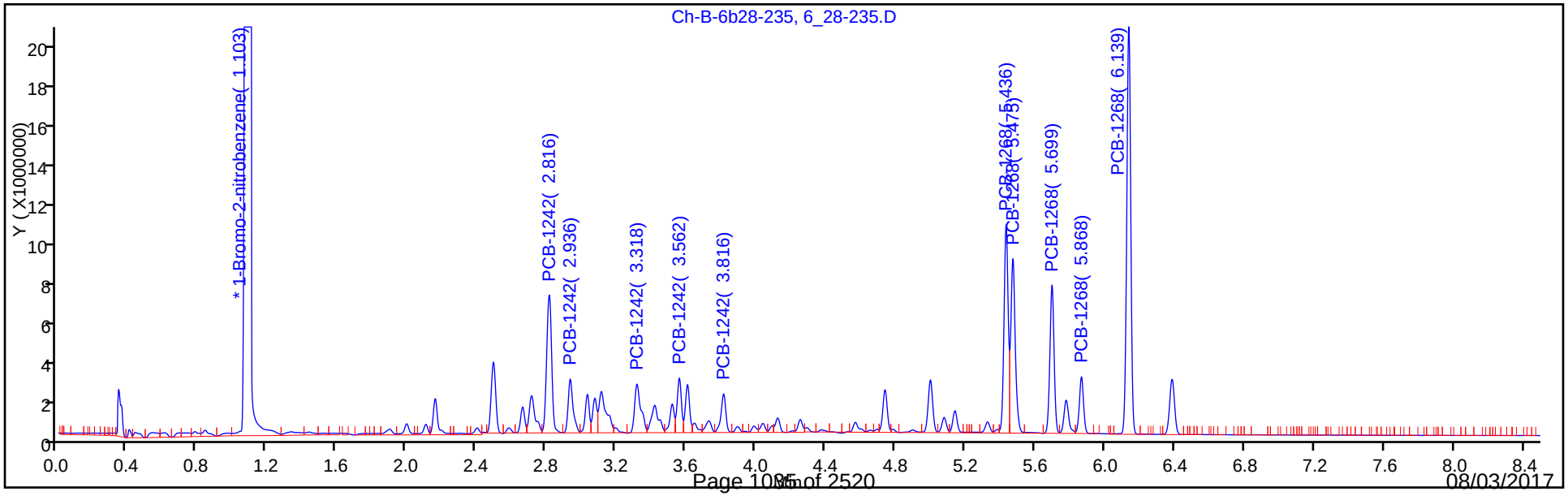
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-235.D

Injection Date:	24-Jul-2017 15:36:18	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/7 Calibration Date: 07/24/2017 15:36

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 06:20

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 02/23/2017 06:52

Lab File ID: 6_28-235.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0681		0.653	0.500	30.5*	20.0
PCB-1242 Peak 2	Lin1		0.0261		0.708	0.500	41.6*	20.0
PCB-1242 Peak 3	Lin1		0.0298		0.669	0.500	33.7*	20.0
PCB-1242 Peak 4	Lin1		0.0229		0.653	0.500	30.6*	20.0
PCB-1242 Peak 5	Lin1		0.0183		0.559	0.500	11.9	20.0
PCB-1268 Peak 1	Ave	0.0592	0.0850		0.718	0.500	43.5*	20.0
PCB-1268 Peak 2	Ave	0.0547	0.0770		0.704	0.500	40.8*	20.0
PCB-1268 Peak 3	Ave	0.0436	0.0611		0.700	0.500	39.9*	20.0
PCB-1268 Peak 4	Ave	0.0174	0.0232		0.667	0.500	33.3*	20.0
PCB-1268 Peak 5	Ave	0.1305	0.1608		0.616	0.500	23.2*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/7 Calibration Date: 07/24/2017 15:36

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 06:20

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 02/23/2017 06:52

Lab File ID: 6_28-235.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.82	2.79	2.85
PCB-1242 Peak 2	2.94	2.91	2.97
PCB-1242 Peak 3	3.32	3.29	3.35
PCB-1242 Peak 4	3.56	3.53	3.59
PCB-1242 Peak 5	3.82	3.79	3.85
PCB-1268 Peak 1	5.44	5.41	5.47
PCB-1268 Peak 2	5.48	5.45	5.51
PCB-1268 Peak 3	5.70	5.67	5.73
PCB-1268 Peak 4	5.87	5.84	5.90
PCB-1268 Peak 5	6.14	6.11	6.17

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-235.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jul-2017 15:36:18 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:50:06 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:50:06

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.000	1.000	0.000	14963529	0.5000	0.5000	
2	1.103	1.103	0.000	201906879	0.5000	0.5000	
						RPD = 0.00	
4 PCB-1242							M
1	2.839	2.839	0.000	842223	0.5000	0.4563	
1	2.924	2.924	0.000	312366	0.5000	0.4748	
1	3.381	3.381	0.000	278969	0.5000	0.4729	
1	3.618	3.618	0.000	286954	0.5000	0.4606	
1	3.759	3.759	0.000	273271	0.5000	0.4537	
		Average of Peak Amounts =				0.4637	
2	2.816	2.816	0.000	13751510	0.5000	0.6526	M
2	2.936	2.936	0.000	5264110	0.5000	0.7078	M
2	3.318	3.318	0.000	6024615	0.5000	0.6687	M
2	3.562	3.562	0.000	4618719	0.5000	0.6532	M
2	3.816	3.816	0.000	3692089	0.5000	0.5594	M
		Average of Peak Amounts =				0.6484	
						RPD = 33.22	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1268							M
1	5.503	5.503	0.000	1322668	0.5000	0.4526	
1	5.544	5.544	0.000	1164490	0.5000	0.4431	
1	5.767	5.767	0.000	995954	0.5000	0.4703	
1	5.909	5.909	0.000	395514	0.5000	0.4439	
1	6.198	6.198	0.000	3269268	0.5000	0.4757	
		Average of Peak Amounts =				0.4571	
2	5.436	5.436	0.000	17155356	0.5000	0.7176	M
2	5.475	5.475	0.000	15549314	0.5000	0.7042	M
2	5.699	5.699	0.000	12327945	0.5000	0.6996	M
2	5.868	5.868	0.000	4676280	0.5000	0.6667	M
2	6.139	6.139	0.000	32458143	0.5000	0.6158	
		Average of Peak Amounts =				0.6808	
						RPD = 39.31	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@0.5_00009 Amount Added: 1.00 Units: ml

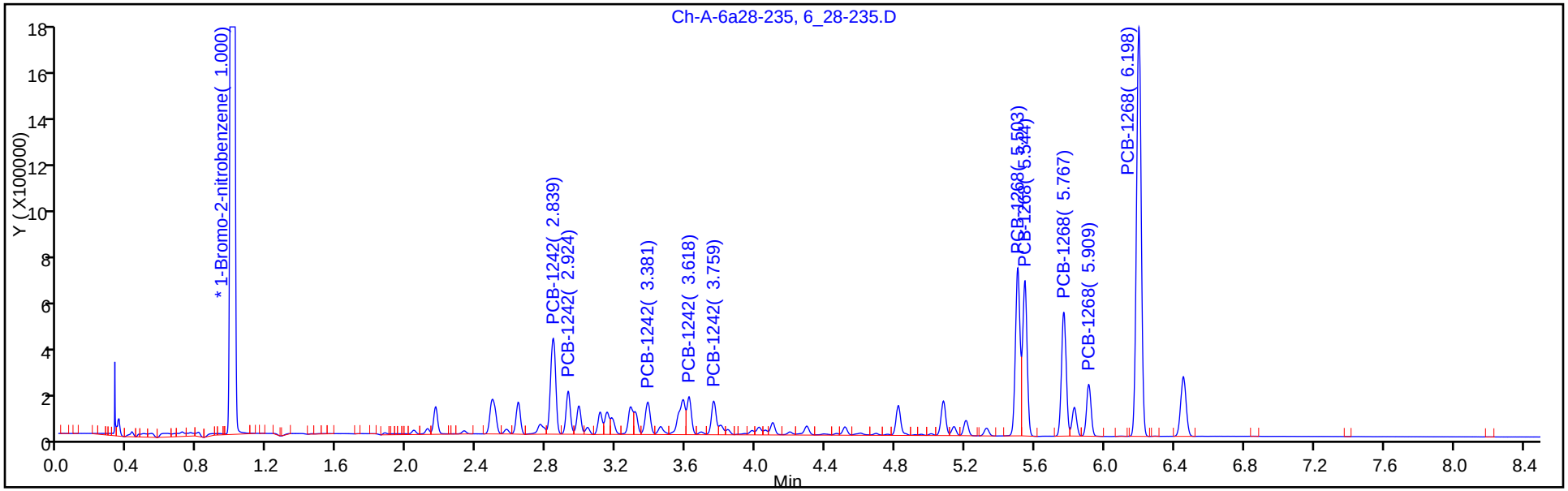
Report Date: 25-Jul-2017 10:50:07 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

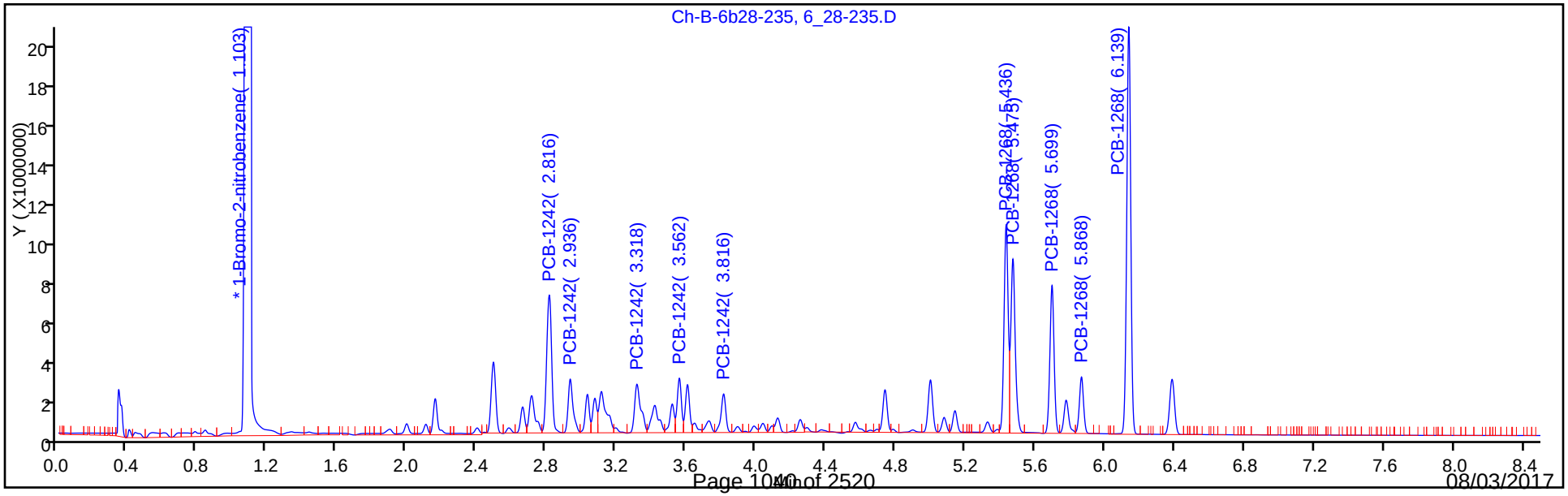
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-235.D

Injection Date:	24-Jul-2017 15:36:18	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 25-Jul-2017 10:50:07 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-235.D

Injection Date: 24-Jul-2017 15:36:18 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

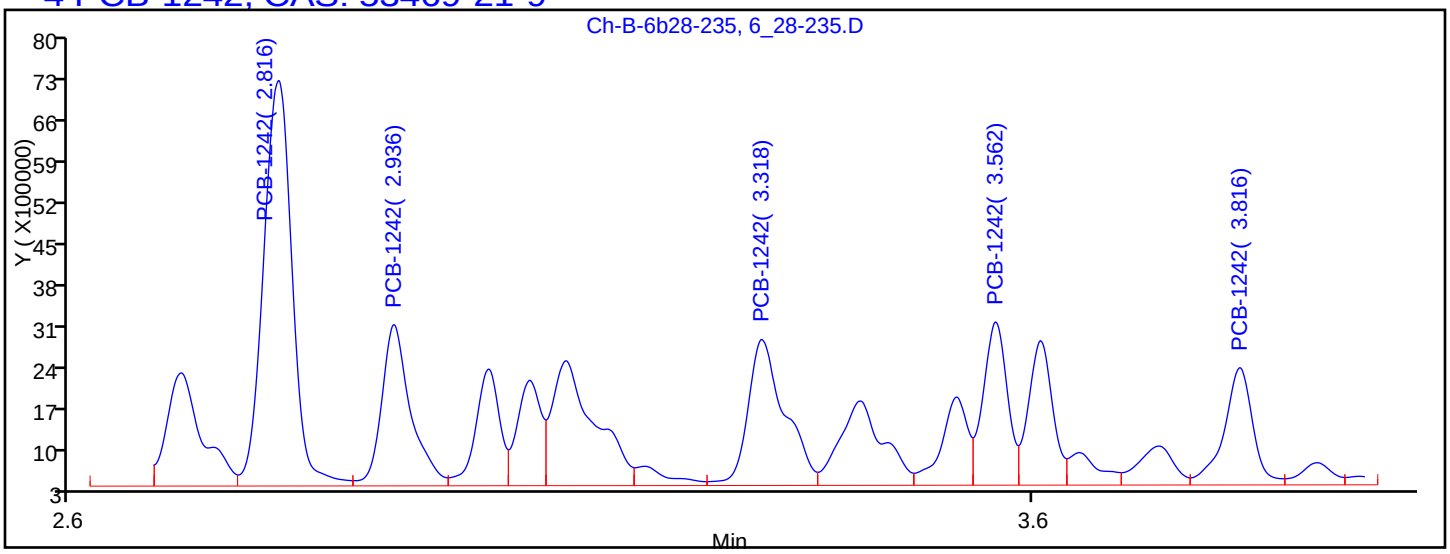
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

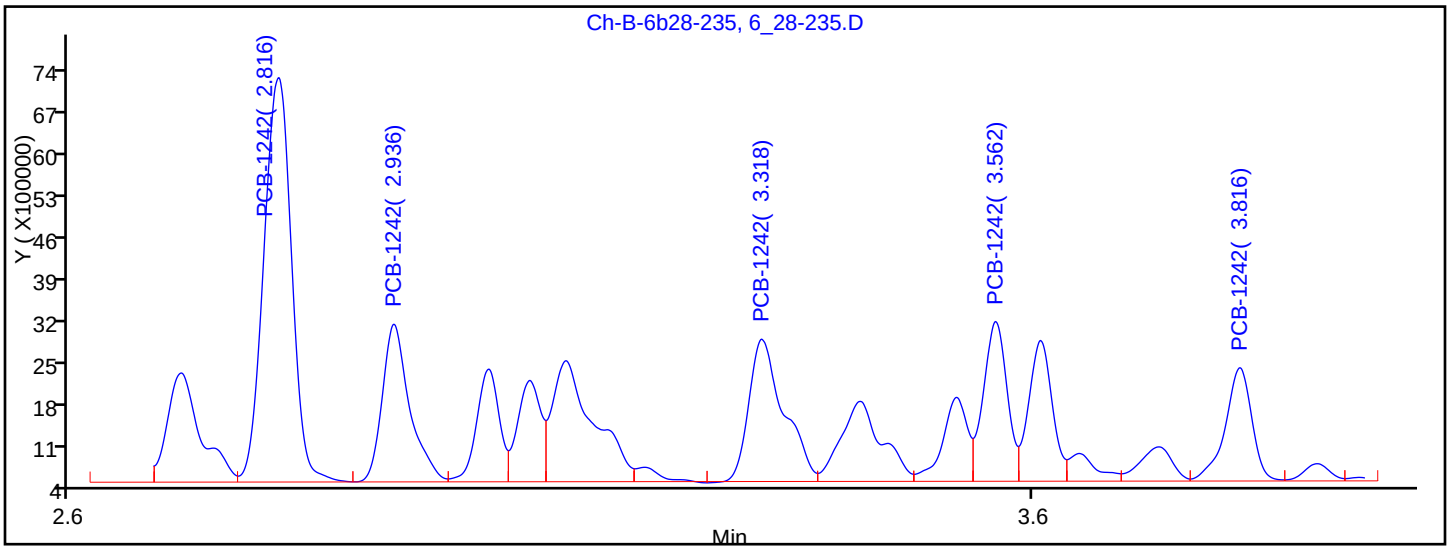
Column: Detector Ch-B-7b136

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

2.816	Response = 14378616
2.936	Response = 5782525
3.318	Response = 6623080
3.562	Response = 4863740
3.816	Response = 4202215



Manual Integration Results

2.816	Response = 13751510	M
2.936	Response = 5264110	M
3.318	Response = 6024615	M
3.562	Response = 4618719	M
3.816	Response = 3692089	M

Reviewer: owenj, 24-Jul-2017 15:57:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 25-Jul-2017 10:50:08 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-235.D

Injection Date: 24-Jul-2017 15:36:18 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

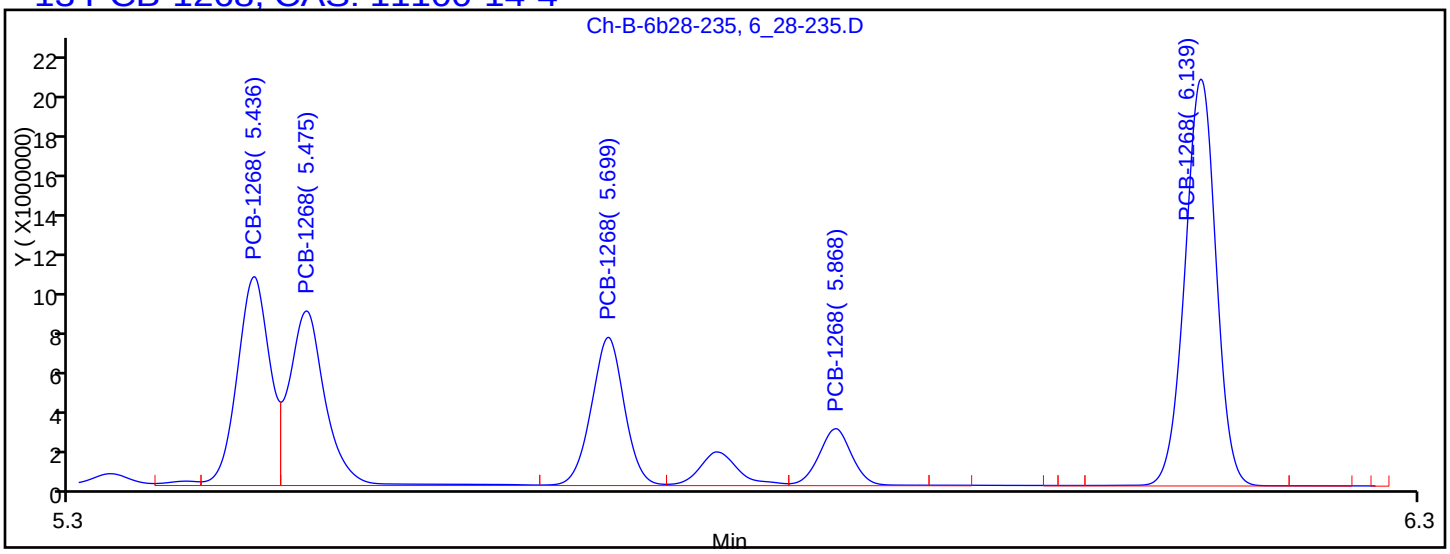
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

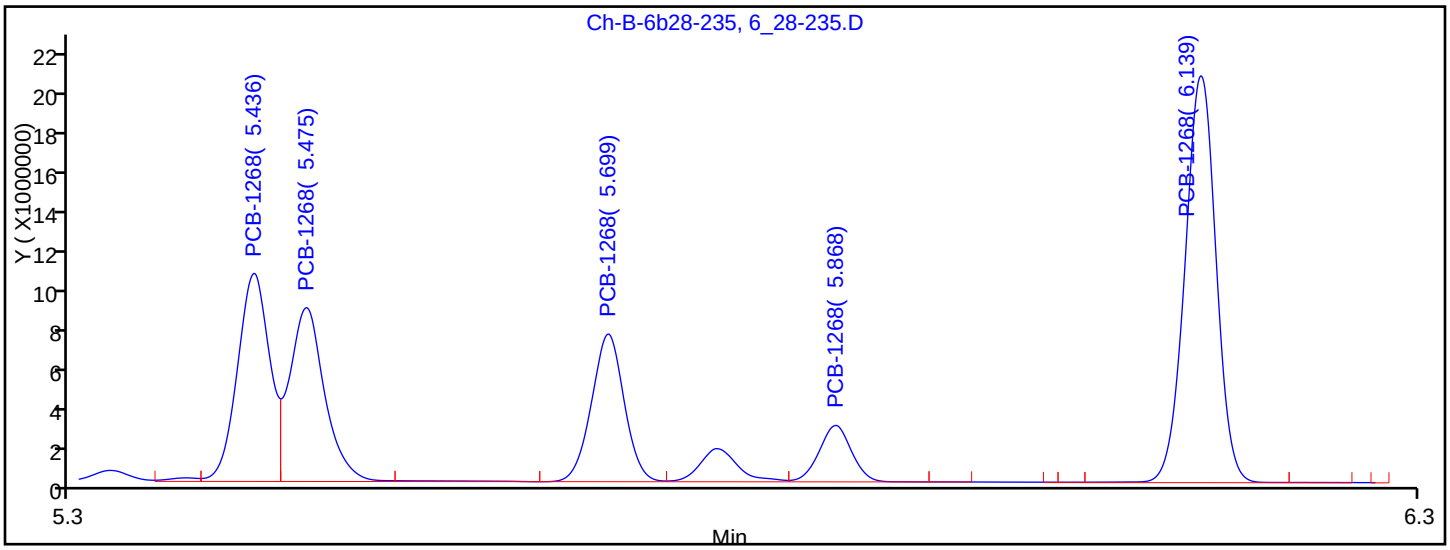
Column: Detector Ch-B-7b136

13 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.436	Response = 17297553
5.475	Response = 16094956
5.699	Response = 12490405
5.868	Response = 4834174
6.139	Response = 32458143



Manual Integration Results

5.436	Response = 17155356	M
5.475	Response = 15549314	M
5.699	Response = 12327945	M
5.868	Response = 4676280	M
6.139	Response = 32458143	

Reviewer: owenj, 24-Jul-2017 15:57:30

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/8 Calibration Date: 07/24/2017 15:52

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 07:24

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 02/23/2017 07:56

Lab File ID: 6_28-236.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0200		0.427	0.500	-14.5	20.0
PCB-1248 Peak 2	Ave	0.0317	0.0274		0.433	0.500	-13.4	20.0
PCB-1248 Peak 3	Ave	0.0522	0.0447		0.428	0.500	-14.4	20.0
PCB-1248 Peak 4	Ave	0.0360	0.0327		0.454	0.500	-9.2	20.0
PCB-1248 Peak 5	Ave	0.0328	0.0277		0.423	0.500	-15.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/8 Calibration Date: 07/24/2017 15:52

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 07:24

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 02/23/2017 07:56

Lab File ID: 6_28-236.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.11	3.08	3.14
PCB-1248 Peak 2	3.38	3.35	3.41
PCB-1248 Peak 3	3.58	3.55	3.61
PCB-1248 Peak 4	3.62	3.59	3.65
PCB-1248 Peak 5	3.76	3.73	3.79

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-236.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jul-2017 15:52:04 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:50:45 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:50:45

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.999	0.999	0.000	15352291	0.5000	0.5000	
2	1.103	1.103	0.000	197352803	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							M
1	3.108	3.108	0.000	307719	0.5000	0.4274	
1	3.380	3.380	0.000	420915	0.5000	0.4330	
1	3.583	3.583	0.000	685636	0.5000	0.4282	
1	3.618	3.618	0.000	501692	0.5000	0.4540	
1	3.758	3.758	0.000	425578	0.5000	0.4229	
		Average of Peak Amounts =				0.4331	
2	3.078	3.078	0.000	5168818	0.5000	0.6827	M
2	3.318	3.318	0.000	6608118	0.5000	0.5286	M
2	3.562	3.562	0.000	7844589	0.5000	0.5710	M
2	3.609	3.609	0.000	6219519	0.5000	0.6097	M
2	3.816	3.816	0.000	6325217	0.5000	0.5843	M
		Average of Peak Amounts =				0.5952	
						RPD = 31.54	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00009 Amount Added: 1.00 Units: mL

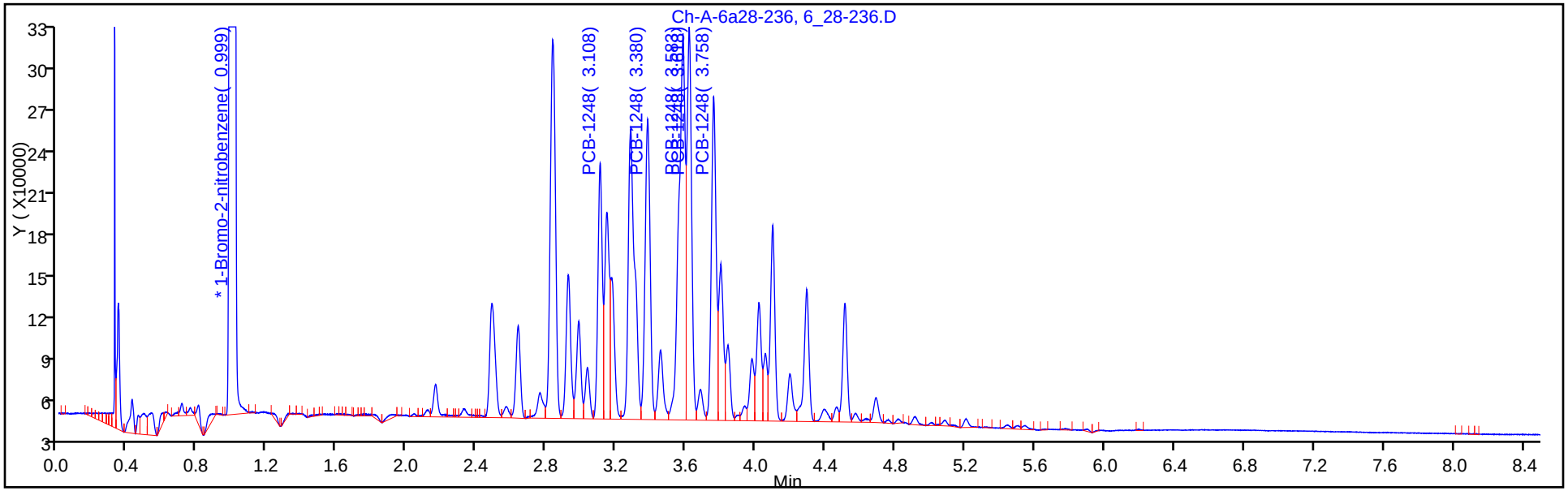
Report Date: 25-Jul-2017 10:50:45 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

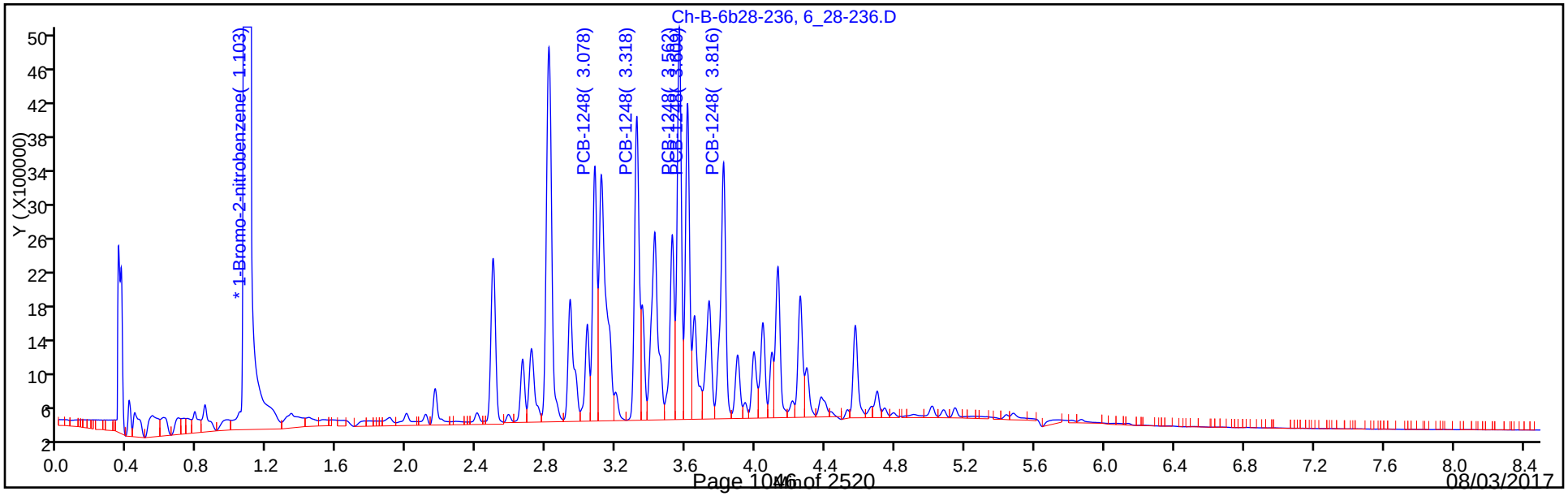
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-236.D

Injection Date:	24-Jul-2017 15:52:04	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/8 Calibration Date: 07/24/2017 15:52

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 07:24

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 02/23/2017 07:56

Lab File ID: 6_28-236.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0262		0.683	0.500	36.5*	20.0
PCB-1248 Peak 2	Lin1		0.0335		0.529	0.500	5.7	20.0
PCB-1248 Peak 3	Ave	0.0348	0.0398		0.571	0.500	14.2	20.0
PCB-1248 Peak 4	Ave	0.0258	0.0315		0.610	0.500	21.9*	20.0
PCB-1248 Peak 5	Lin1		0.0321		0.584	0.500	16.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368358/8 Calibration Date: 07/24/2017 15:52

Instrument ID: HP6890-6 Calib Start Date: 02/23/2017 07:24

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 02/23/2017 07:56

Lab File ID: 6_28-236.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.08	3.05	3.11
PCB-1248 Peak 2	3.32	3.29	3.35
PCB-1248 Peak 3	3.56	3.53	3.59
PCB-1248 Peak 4	3.61	3.58	3.64
PCB-1248 Peak 5	3.82	3.79	3.85

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-236.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 24-Jul-2017 15:52:04 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6
Sublist: chrom-6890-6 PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:50:45 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:50:45

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.999	0.999	0.000	15352291	0.5000	0.5000	
2	1.103	1.103	0.000	197352803	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1248							M
1	3.108	3.108	0.000	307719	0.5000	0.4274	
1	3.380	3.380	0.000	420915	0.5000	0.4330	
1	3.583	3.583	0.000	685636	0.5000	0.4282	
1	3.618	3.618	0.000	501692	0.5000	0.4540	
1	3.758	3.758	0.000	425578	0.5000	0.4229	
		Average of Peak Amounts =				0.4331	
2	3.078	3.078	0.000	5168818	0.5000	0.6827	M
2	3.318	3.318	0.000	6608118	0.5000	0.5286	M
2	3.562	3.562	0.000	7844589	0.5000	0.5710	M
2	3.609	3.609	0.000	6219519	0.5000	0.6097	M
2	3.816	3.816	0.000	6325217	0.5000	0.5843	M
		Average of Peak Amounts =				0.5952	
						RPD = 31.54	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00009 Amount Added: 1.00 Units: mL

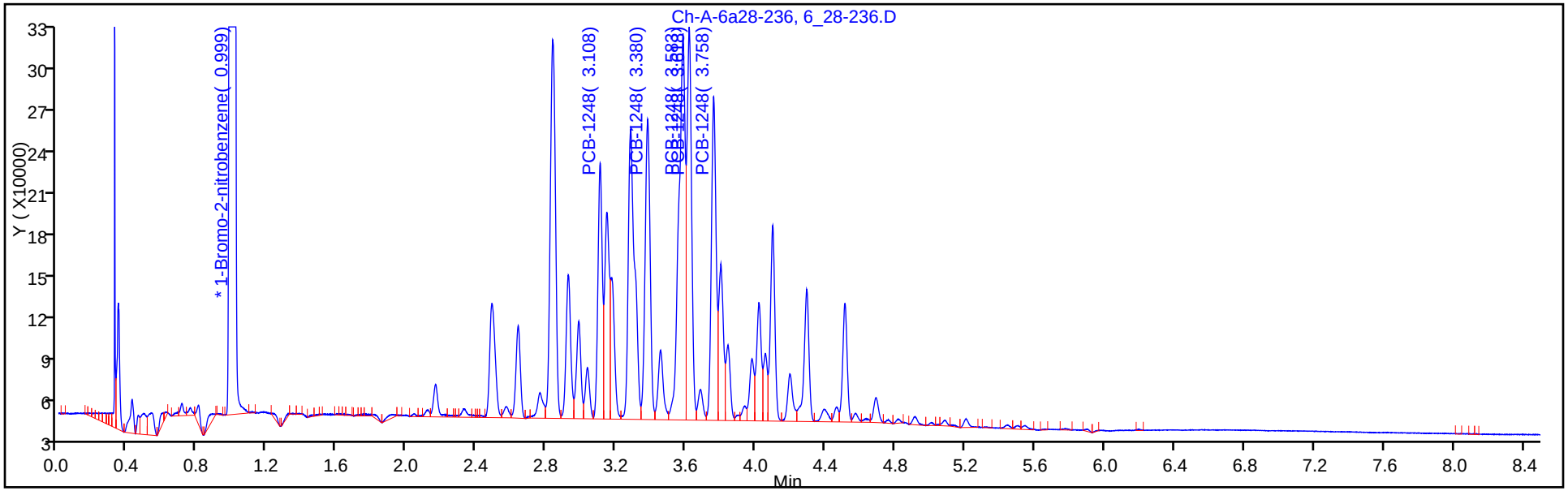
Report Date: 25-Jul-2017 10:50:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

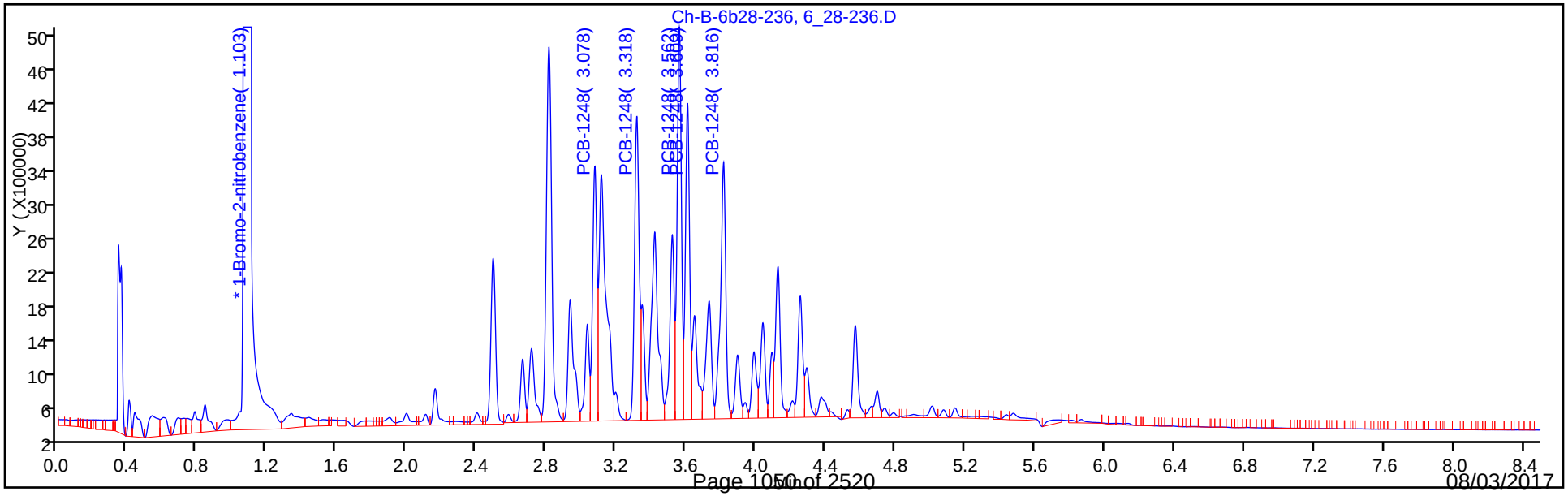
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-236.D

Injection Date:	24-Jul-2017 15:52:04	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 25-Jul-2017 10:50:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-236.D

Injection Date: 24-Jul-2017 15:52:04 Instrument ID: HP6890-6

Lims ID: CCV

Client ID:

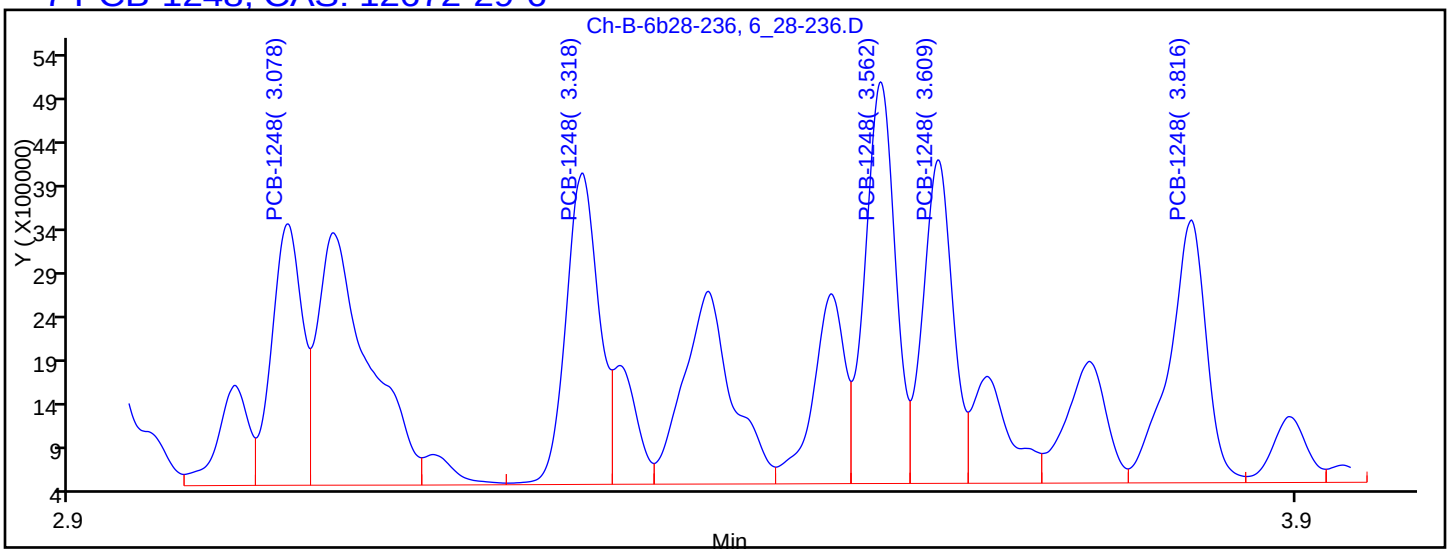
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

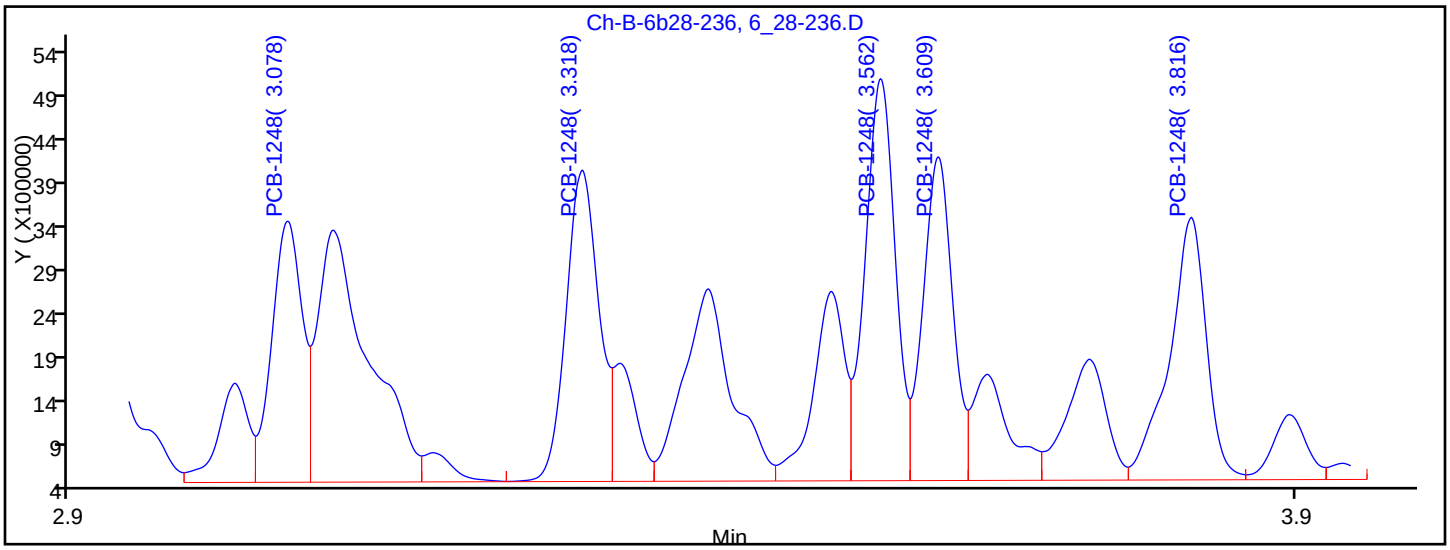
Column: Detector Ch-B-7b136

7 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.078	Response = 5208554
3.318	Response = 6682057
3.562	Response = 7880420
3.609	Response = 6254956
3.816	Response = 6400703



Manual Integration Results

3.078	Response = 5168818	M
3.318	Response = 6608118	M
3.562	Response = 7844589	M
3.609	Response = 6219519	M
3.816	Response = 6325217	M

Reviewer: owenj, 24-Jul-2017 16:33:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368775/6 Calibration Date: 07/26/2017 11:58

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_36-220.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0419		0.553	0.500	10.7	20.0
PCB-1016 Peak 2	Lin1		0.0258		0.551	0.500	10.2	20.0
PCB-1016 Peak 3	Lin1		0.0921		0.571	0.500	14.3	20.0
PCB-1016 Peak 4	Lin1		0.0363		0.602	0.500	20.4*	20.0
PCB-1016 Peak 5	Lin1		0.0246		0.589	0.500	17.9	20.0
PCB-1260 Peak 1	Lin1		0.0682		0.540	0.500	8.1	20.0
PCB-1260 Peak 2	Lin1		0.0371		0.523	0.500	4.5	20.0
PCB-1260 Peak 3	Lin1		0.0358		0.535	0.500	7.0	20.0
PCB-1260 Peak 4	Lin1		0.0829		0.493	0.500	-1.4	20.0
PCB-1260 Peak 5	Lin1		0.0388		0.486	0.500	-2.8	20.0
Tetrachloro-m-xylene	Lin1		1.379		0.0139	0.0125	11.5	20.0
DCB Decachlorobiphenyl	Lin1		0.7849		0.0137	0.0125	9.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368775/6 Calibration Date: 07/26/2017 11:58

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_36-220.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.54	2.51	2.57
PCB-1016 Peak 2	2.69	2.66	2.72
PCB-1016 Peak 3	2.89	2.86	2.92
PCB-1016 Peak 4	2.98	2.95	3.01
PCB-1016 Peak 5	3.04	3.01	3.07
PCB-1260 Peak 1	4.76	4.73	4.79
PCB-1260 Peak 2	4.89	4.86	4.92
PCB-1260 Peak 3	5.08	5.05	5.11
PCB-1260 Peak 4	5.29	5.26	5.32
PCB-1260 Peak 5	5.53	5.50	5.56
Tetrachloro-m-xylene	1.97	1.94	2.00
DCB Decachlorobiphenyl	6.91	6.88	6.94

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Jul-2017 11:58:52 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:15:33 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:15:33

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	15388831	0.5000	0.5000	
2	0.942	0.942	0.000	39385935	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.966	1.966	0.000	530519	0.0125	0.0139	
2	1.491	1.491	0.000	1212554	0.0125	0.0137	
						RPD = 1.50	
9 PCB-1016							M
1	2.544	2.544	0.000	645299	0.5000	0.5533	M
1	2.691	2.691	0.000	396731	0.5000	0.5512	M
1	2.893	2.893	0.000	1417505	0.5000	0.5714	M
1	2.980	2.980	0.000	558652	0.5000	0.6021	M
1	3.041	3.041	0.000	378089	0.5000	0.5894	M
		Average of Peak Amounts =				0.5735	
2	2.163	2.163	0.000	1417318	0.5000	0.5277	
2	2.466	2.466	0.000	2927394	0.5000	0.5218	
2	2.573	2.573	0.000	1124876	0.5000	0.5291	
2	2.663	2.663	0.000	754106	0.5000	0.5282	
2	2.936	2.936	0.000	1283463	0.5000	0.5244	
		Average of Peak Amounts =				0.5262	
						RPD = 8.59	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.764	4.764	0.000	1049311	0.5000	0.5404	M
1	4.893	4.893	0.000	570105	0.5000	0.5225	M
1	5.083	5.083	0.000	550876	0.5000	0.5348	M
1	5.288	5.288	0.000	1276399	0.5000	0.4931	M
1	5.532	5.532	0.000	597275	0.5000	0.4861	M
		Average of Peak Amounts =				0.5154	
2	4.295	4.295	0.000	1399807	0.5000	0.4934	
2	4.349	4.349	0.000	1094050	0.5000	0.4218	
2	4.672	4.672	0.000	1106983	0.5000	0.5491	
2	4.748	4.748	0.000	2670897	0.5000	0.4125	
2	5.074	5.074	0.000	1673371	0.5000	0.4269	
		Average of Peak Amounts =				0.4607	
						RPD = 11.20	
2 1260 Res 1							M
1	5.532	5.532	0.000	597275	NC	NC	M
2	4.603	4.603	0.000	1179715	NC	NC	
$ 15 DCB Decachlorobiphenyl							M
1	6.907	6.907	0.000	301952	0.0125	0.0137	M
2	6.056	6.056	0.000	662531	0.0125	0.0115	
						RPD = 17.82	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- s - Failed ISTD Recovery Test

Review Flags
- M - Manually Integrated

Reagents:

1660sur/is0.5_00007 Amount Added: 1.00 Units: ml

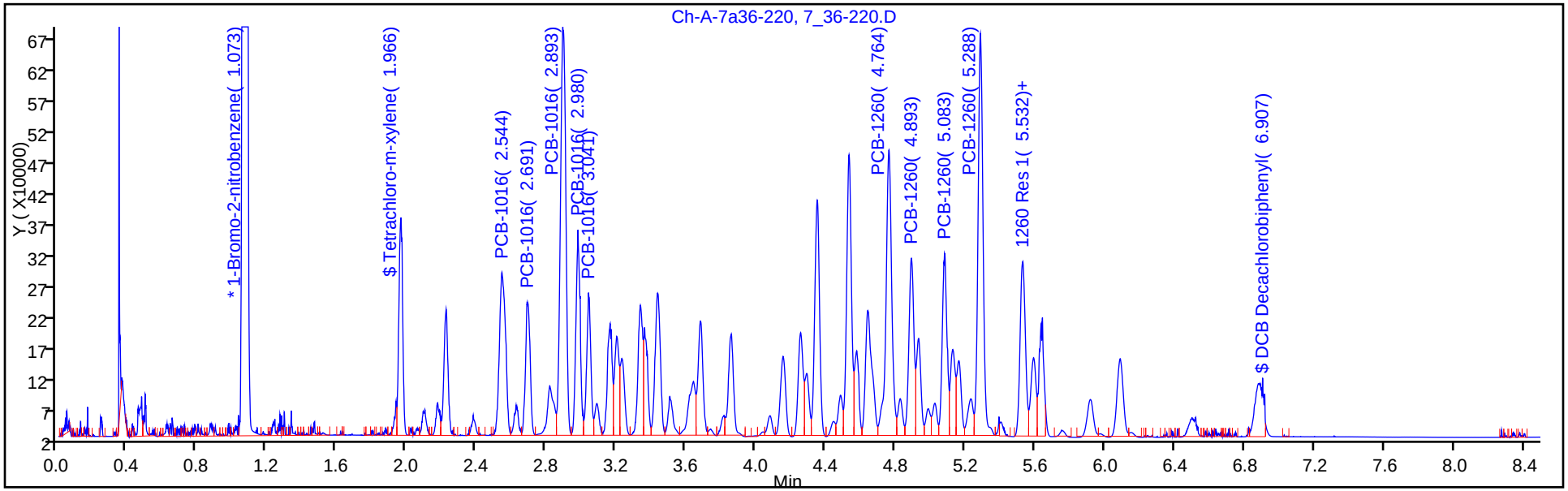
Report Date: 26-Jul-2017 15:15:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

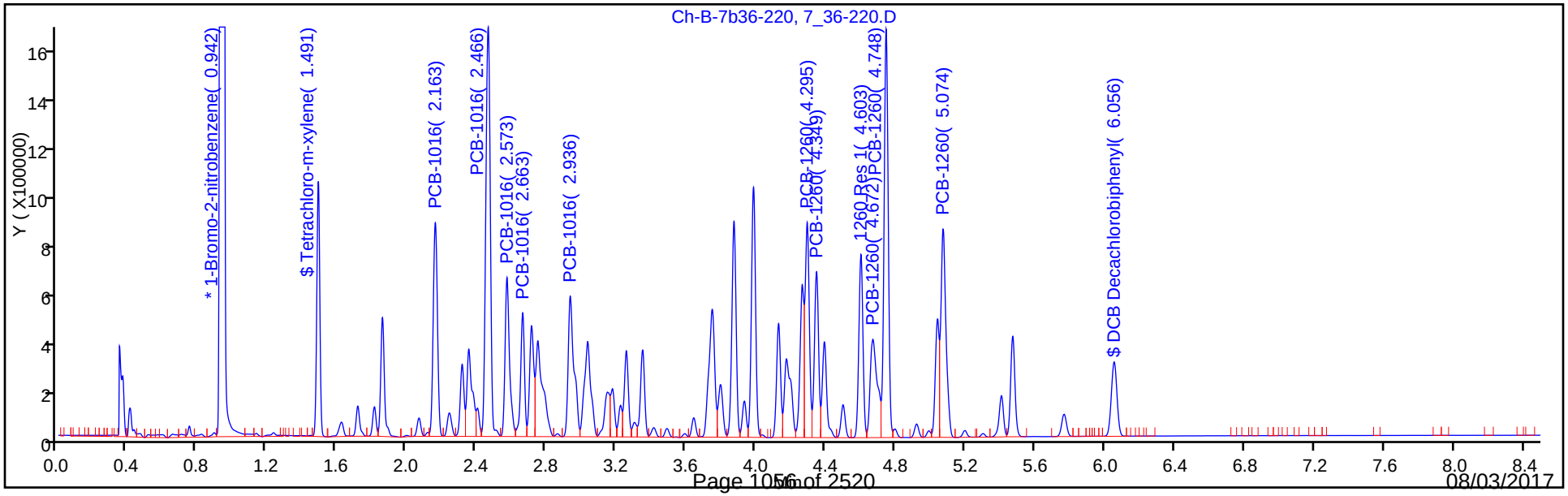
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D

Injection Date:	26-Jul-2017 11:58:52	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 26-Jul-2017 15:15:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D

Injection Date: 26-Jul-2017 11:58:52 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

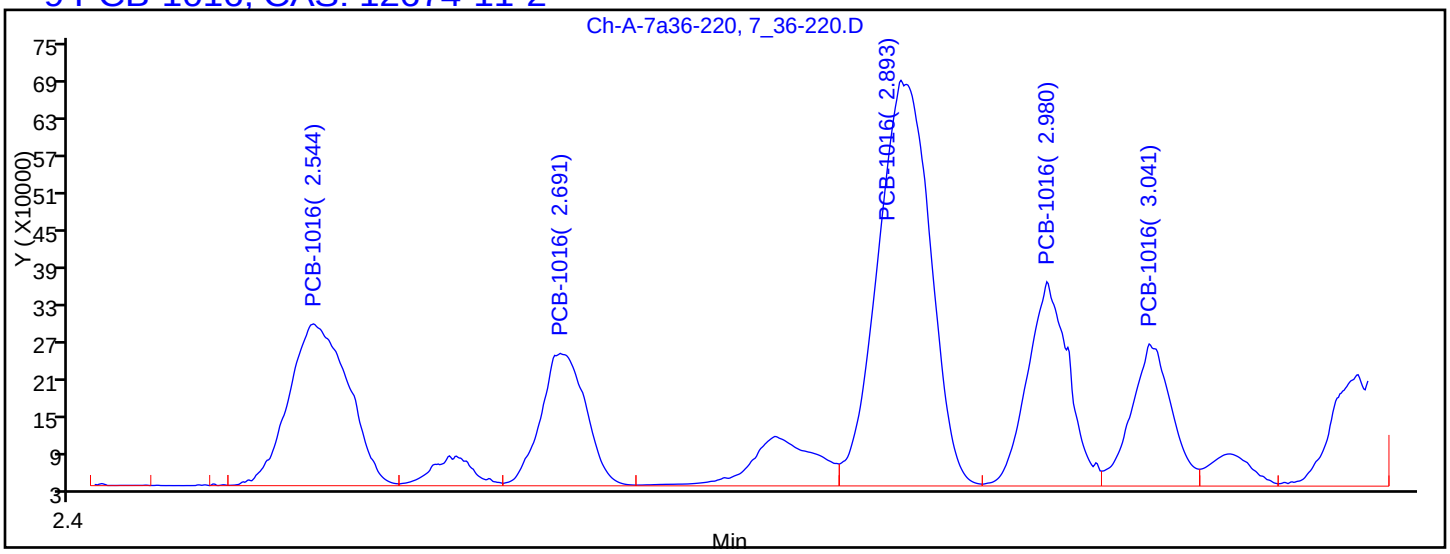
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

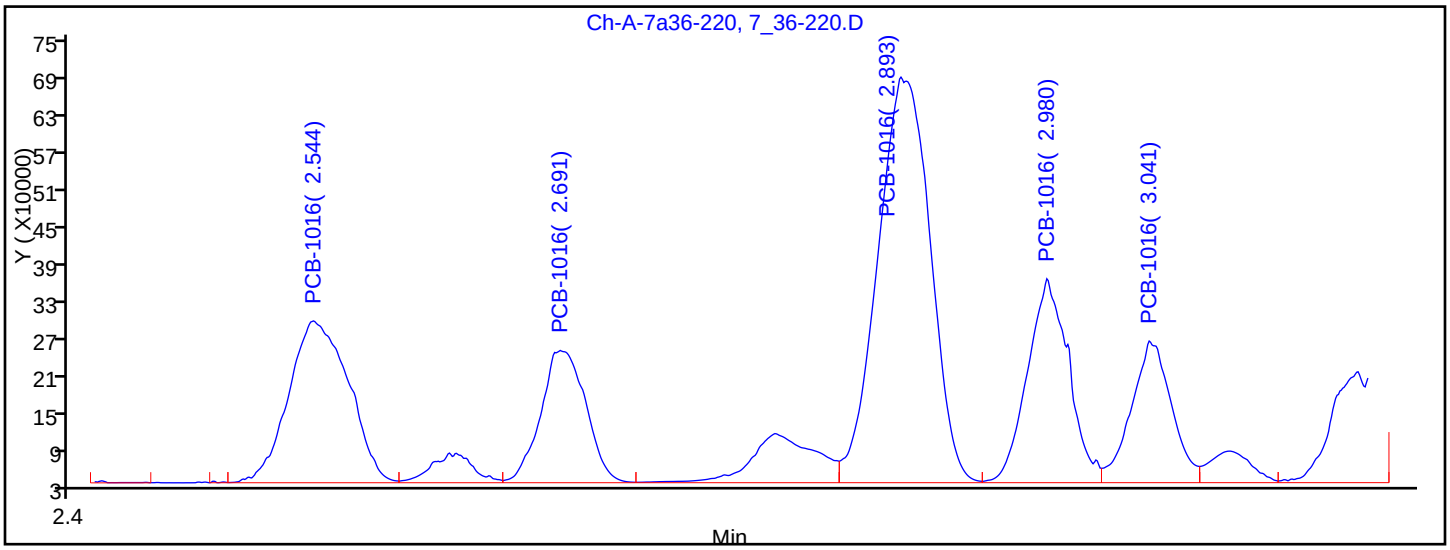
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.544	Response = 646791
2.691	Response = 398895
2.893	Response = 1421259
2.980	Response = 562239
3.041	Response = 381356



Manual Integration Results

2.544	Response = 645299	M
2.691	Response = 396731	M
2.893	Response = 1417505	M
2.980	Response = 558652	M
3.041	Response = 378089	M

Reviewer: owenj, 26-Jul-2017 12:25:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 26-Jul-2017 15:15:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D

Injection Date: 26-Jul-2017 11:58:52 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

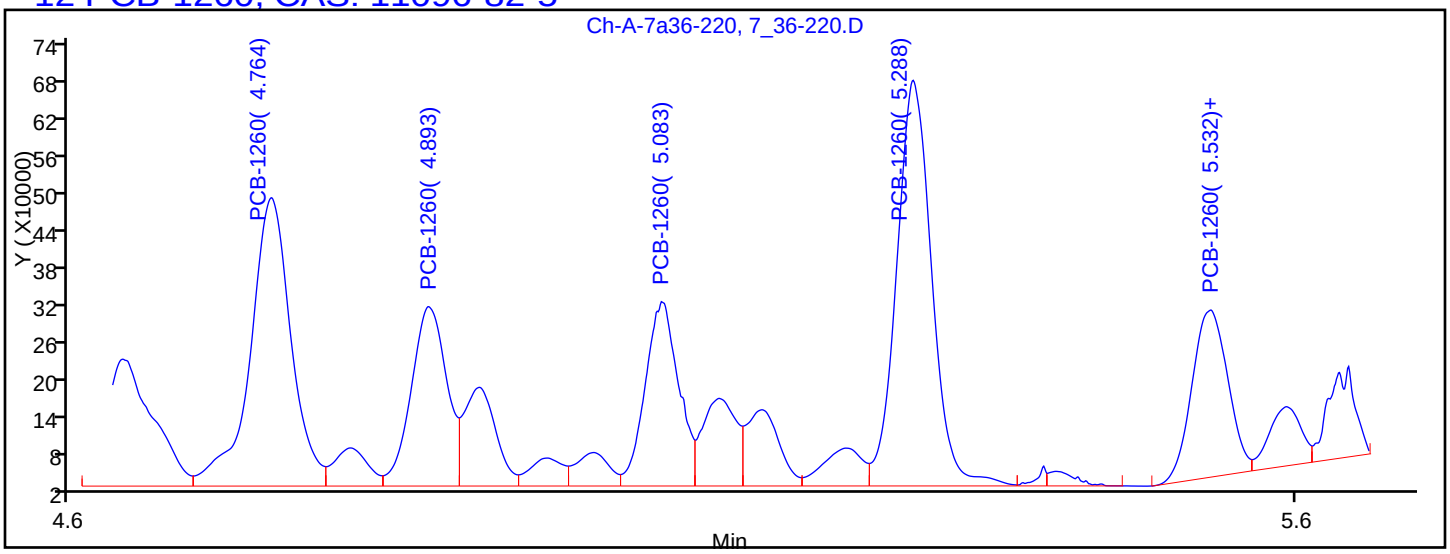
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

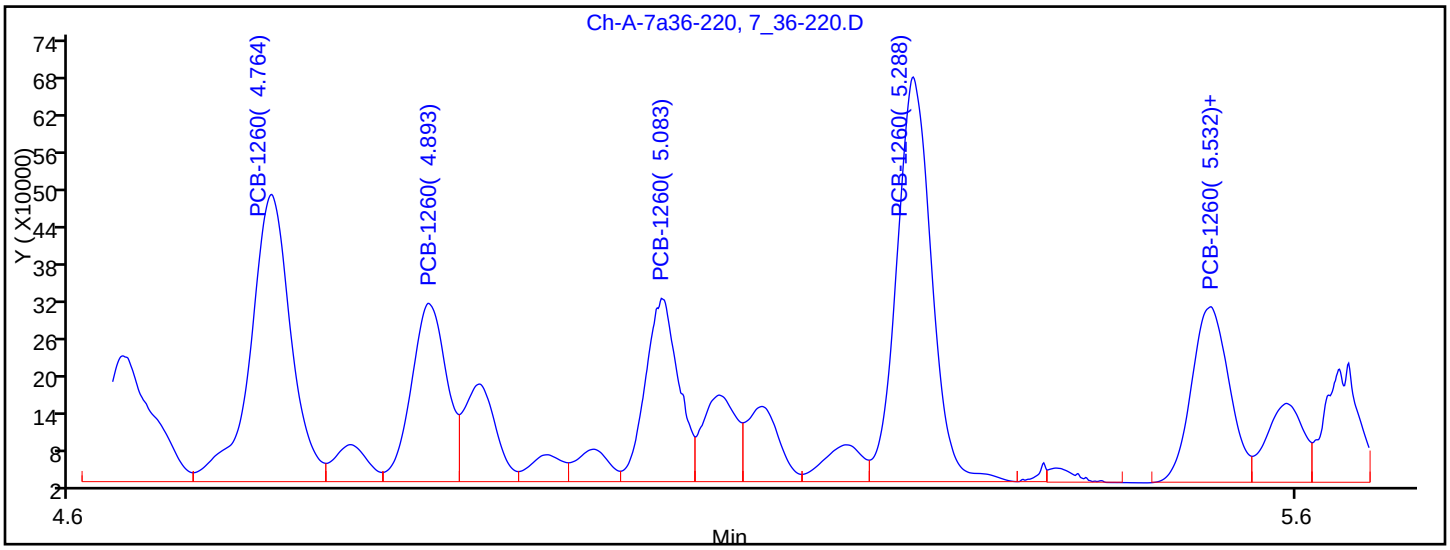
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.764	Response = 1061098
4.893	Response = 576710
5.083	Response = 557024
5.288	Response = 1287941
5.532	Response = 542910



Manual Integration Results

4.764	Response = 1049311	M
4.893	Response = 570105	M
5.083	Response = 550876	M
5.288	Response = 1276399	M
5.532	Response = 597275	M

Reviewer: owenj, 26-Jul-2017 12:24:40

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

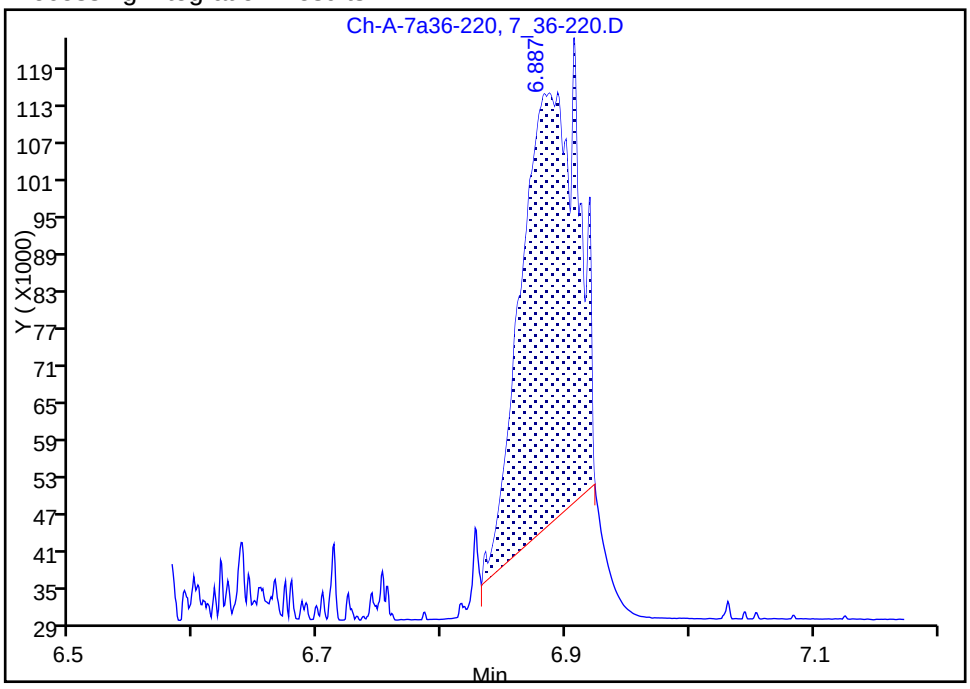
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D
Injection Date: 26-Jul-2017 11:58:52 Instrument ID: HP6890-7
Lims ID: CCVIS
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

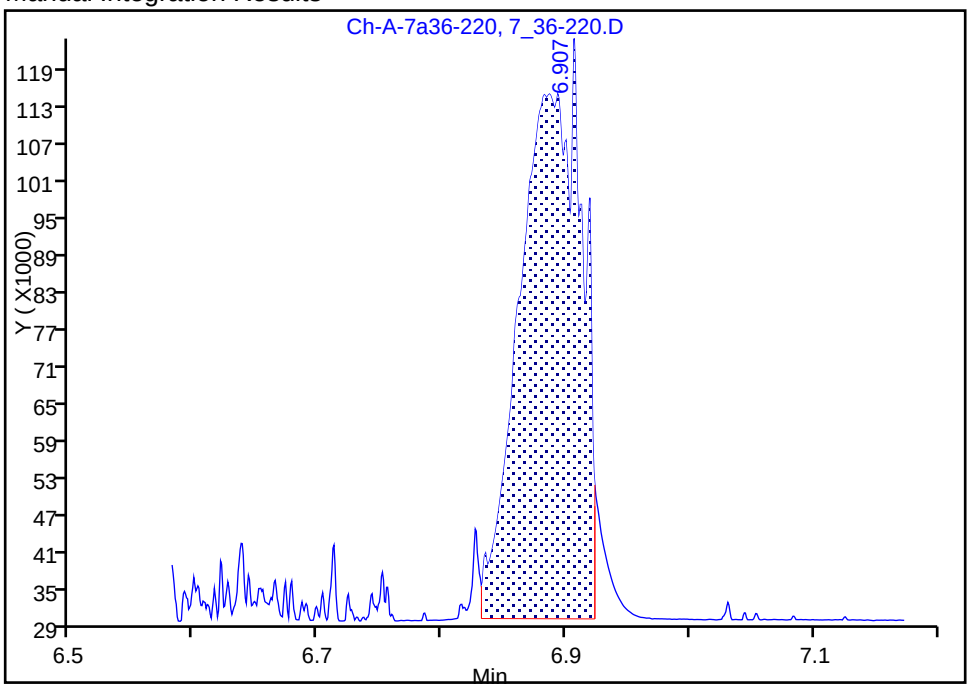
Processing Integration Results

RT: 6.89
Area: 227994
Amount: 0.010185
Amount Units: ng/uL



Manual Integration Results

RT: 6.91
Area: 301952
Amount: 0.013710
Amount Units: ng/uL



Reviewer: owenj, 26-Jul-2017 12:24:40
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368775/6 Calibration Date: 07/26/2017 11:58

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_36-220.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0360		0.528	0.500	5.5	20.0
PCB-1016 Peak 2	Lin1		0.0743		0.522	0.500	4.4	20.0
PCB-1016 Peak 3	Lin1		0.0286		0.529	0.500	5.8	20.0
PCB-1016 Peak 4	Lin1		0.0192		0.528	0.500	5.6	20.0
PCB-1016 Peak 5	Lin1		0.0326		0.524	0.500	4.9	20.0
PCB-1260 Peak 1	Lin1		0.0355		0.493	0.500	-1.3	20.0
PCB-1260 Peak 2	Lin1		0.0278		0.422	0.500	-15.6	20.0
PCB-1260 Peak 3	Lin1		0.0281		0.549	0.500	9.8	20.0
PCB-1260 Peak 4	Lin1		0.0678		0.413	0.500	-17.5	20.0
PCB-1260 Peak 5	Lin1		0.0425		0.427	0.500	-14.6	20.0
Tetrachloro-m-xylene	Lin1		1.231		0.0137	0.0125	9.9	20.0
DCB Decachlorobiphenyl	Lin1		0.6729		0.0115	0.0125	-8.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCVIS 480-368775/6 Calibration Date: 07/26/2017 11:58

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_36-220.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.16	2.13	2.19
PCB-1016 Peak 2	2.47	2.44	2.50
PCB-1016 Peak 3	2.57	2.54	2.60
PCB-1016 Peak 4	2.66	2.63	2.69
PCB-1016 Peak 5	2.94	2.91	2.97
PCB-1260 Peak 1	4.30	4.27	4.33
PCB-1260 Peak 2	4.35	4.32	4.38
PCB-1260 Peak 3	4.67	4.64	4.70
PCB-1260 Peak 4	4.75	4.72	4.78
PCB-1260 Peak 5	5.07	5.04	5.10
Tetrachloro-m-xylene	1.49	1.46	1.52
DCB Decachlorobiphenyl	6.06	6.03	6.09

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Jul-2017 11:58:52 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:15:33 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:15:33

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	15388831	0.5000	0.5000	
2	0.942	0.942	0.000	39385935	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.966	1.966	0.000	530519	0.0125	0.0139	
2	1.491	1.491	0.000	1212554	0.0125	0.0137	
						RPD = 1.50	
9 PCB-1016							M
1	2.544	2.544	0.000	645299	0.5000	0.5533	M
1	2.691	2.691	0.000	396731	0.5000	0.5512	M
1	2.893	2.893	0.000	1417505	0.5000	0.5714	M
1	2.980	2.980	0.000	558652	0.5000	0.6021	M
1	3.041	3.041	0.000	378089	0.5000	0.5894	M
		Average of Peak Amounts =				0.5735	
2	2.163	2.163	0.000	1417318	0.5000	0.5277	
2	2.466	2.466	0.000	2927394	0.5000	0.5218	
2	2.573	2.573	0.000	1124876	0.5000	0.5291	
2	2.663	2.663	0.000	754106	0.5000	0.5282	
2	2.936	2.936	0.000	1283463	0.5000	0.5244	
		Average of Peak Amounts =				0.5262	
						RPD = 8.59	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.764	4.764	0.000	1049311	0.5000	0.5404	M
1	4.893	4.893	0.000	570105	0.5000	0.5225	M
1	5.083	5.083	0.000	550876	0.5000	0.5348	M
1	5.288	5.288	0.000	1276399	0.5000	0.4931	M
1	5.532	5.532	0.000	597275	0.5000	0.4861	M
		Average of Peak Amounts =				0.5154	
2	4.295	4.295	0.000	1399807	0.5000	0.4934	
2	4.349	4.349	0.000	1094050	0.5000	0.4218	
2	4.672	4.672	0.000	1106983	0.5000	0.5491	
2	4.748	4.748	0.000	2670897	0.5000	0.4125	
2	5.074	5.074	0.000	1673371	0.5000	0.4269	
		Average of Peak Amounts =				0.4607	
						RPD = 11.20	
2 1260 Res 1							M
1	5.532	5.532	0.000	597275	NC	NC	M
2	4.603	4.603	0.000	1179715	NC	NC	
$ 15 DCB Decachlorobiphenyl							M
1	6.907	6.907	0.000	301952	0.0125	0.0137	M
2	6.056	6.056	0.000	662531	0.0125	0.0115	
						RPD = 17.82	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- s - Failed ISTD Recovery Test

Review Flags
- M - Manually Integrated

Reagents:

1660sur/is0.5_00007 Amount Added: 1.00 Units: ml

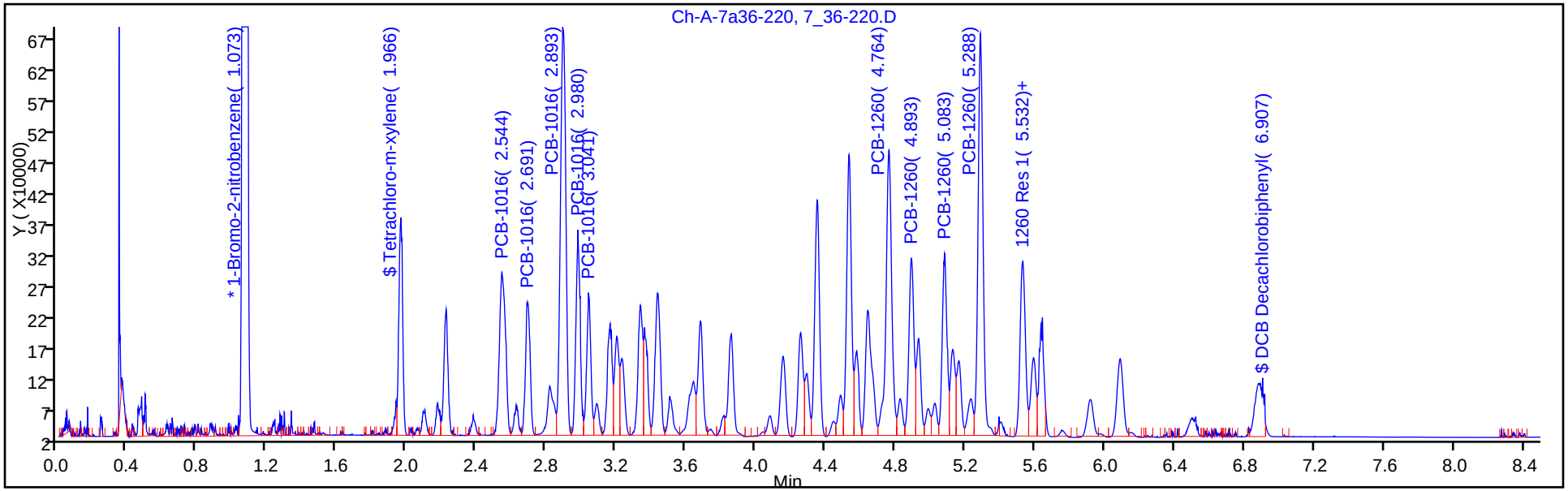
Report Date: 26-Jul-2017 15:15:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

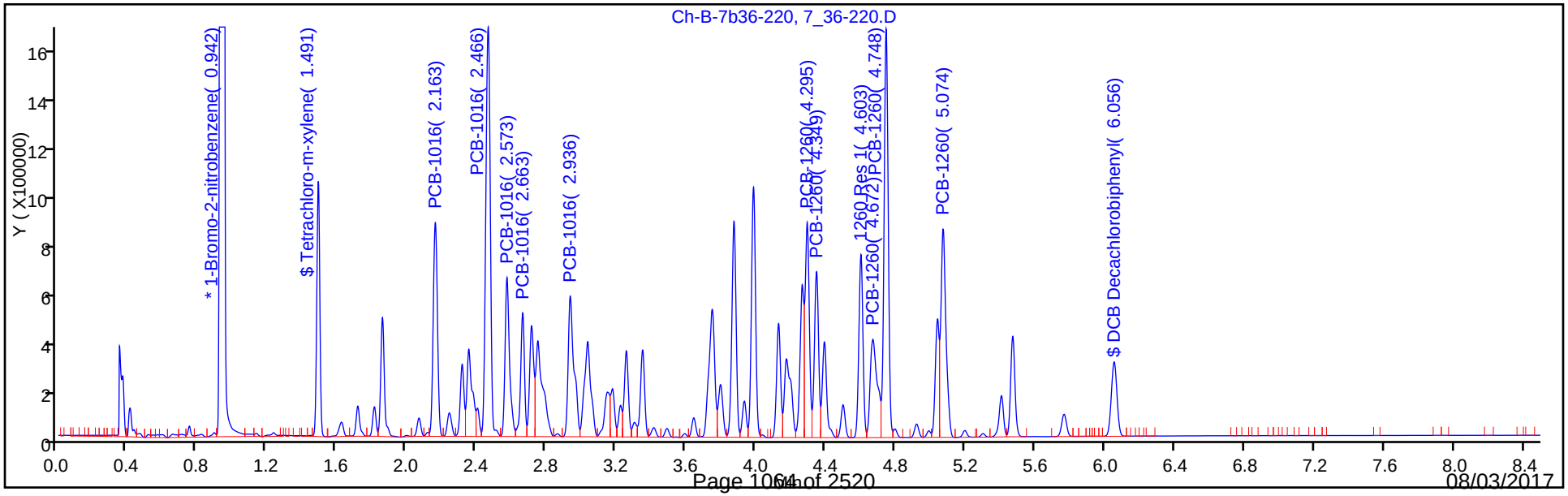
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D

Injection Date:	26-Jul-2017 11:58:52	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/7 Calibration Date: 07/26/2017 12:14

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_36-221.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0068		0.478	0.500	-4.3	20.0
PCB-1221 Peak 2	Lin1		0.0132		0.590	0.500	17.9	20.0
PCB-1221 Peak 3	Lin1		0.0080		0.586	0.500	17.2	20.0
PCB-1221 Peak 4	Lin1		0.0300		0.600	0.500	20.0	20.0
PCB-1254 Peak 1	Lin1		0.0625		0.603	0.500	20.6*	20.0
PCB-1254 Peak 2	Lin1		0.0398		0.586	0.500	17.2	20.0
PCB-1254 Peak 3	Lin1		0.0728		0.593	0.500	18.5	20.0
PCB-1254 Peak 4	Lin1		0.0730		0.586	0.500	17.2	20.0
PCB-1254 Peak 5	Lin1		0.0577		0.549	0.500	9.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/7 Calibration Date: 07/26/2017 12:14

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_36-221.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.52	1.49	1.55
PCB-1221 Peak 2	2.10	2.07	2.13
PCB-1221 Peak 3	2.18	2.15	2.21
PCB-1221 Peak 4	2.22	2.19	2.25
PCB-1254 Peak 1	3.86	3.83	3.89
PCB-1254 Peak 2	4.08	4.05	4.11
PCB-1254 Peak 3	4.16	4.13	4.19
PCB-1254 Peak 4	4.36	4.33	4.39
PCB-1254 Peak 5	4.77	4.74	4.80

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-221.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:14:50 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:15:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:15:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	15324796	0.5000	0.5000	
2	0.942	0.942	0.000	38531583	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.523	1.523	0.000	103849	0.5000	0.4783	
1	2.101	2.101	0.000	201953	0.5000	0.5896	
1	2.176	2.176	0.000	121860	0.5000	0.5860	
1	2.223	2.223	0.000	459134	0.5000	0.5999	
		Average of Peak Amounts =				0.5635	
2	1.234	1.234	0.000	278327	0.5000	0.5154	M
2	1.718	1.718	0.000	466787	0.5000	0.5558	M
2	1.813	1.813	0.000	293182	0.5000	0.5757	M
2	1.859	1.859	0.000	870603	0.5000	0.5336	M
		Average of Peak Amounts =				0.5451	
						RPD = 3.31	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.859	3.859	0.000	957374	0.5000	0.6030	
1	4.081	4.081	0.000	610084	0.5000	0.5862	
1	4.162	4.162	0.000	1115742	0.5000	0.5927	
1	4.360	4.360	0.000	1117902	0.5000	0.5859	
1	4.765	4.765	0.000	884361	0.5000	0.5494	
		Average of Peak Amounts =				0.5834	
2	3.352	3.352	0.000	1450809	0.5000	0.5065	
2	3.644	3.644	0.000	1090308	0.5000	0.5187	
2	3.730	3.730	0.000	2326215	0.5000	0.5109	
2	3.867	3.867	0.000	2317322	0.5000	0.5011	
2	4.297	4.297	0.000	1878722	0.5000	0.4827	
		Average of Peak Amounts =				0.5040	
						RPD = 14.61	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00009 Amount Added: 1.00 Units: mL

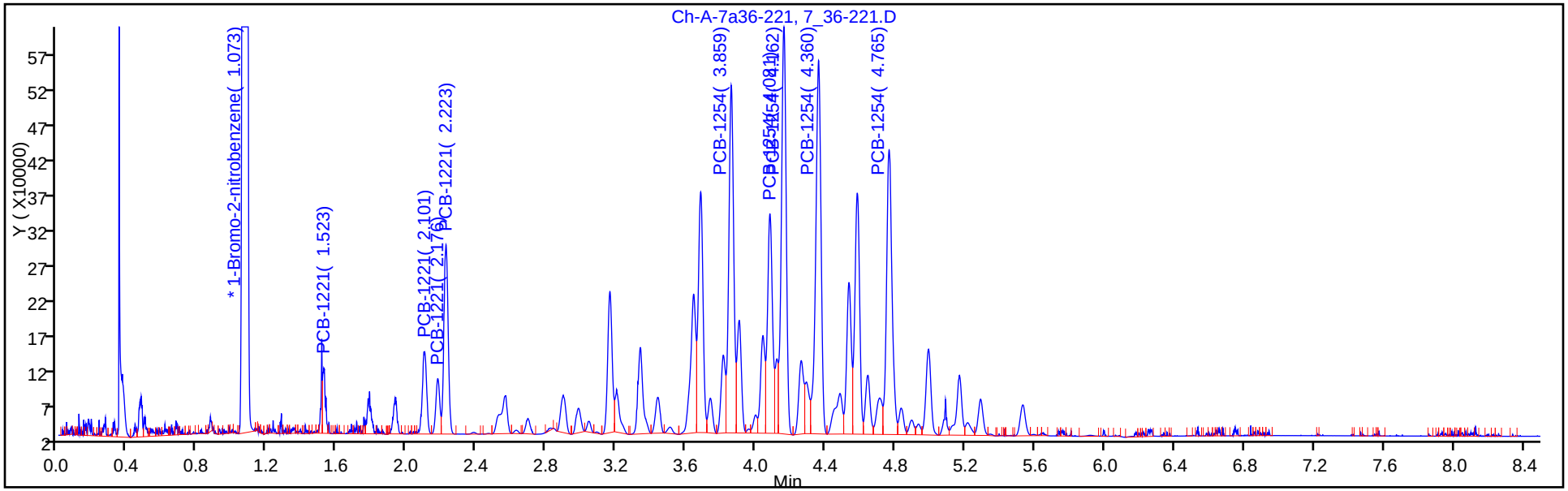
Report Date: 26-Jul-2017 15:15:59 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

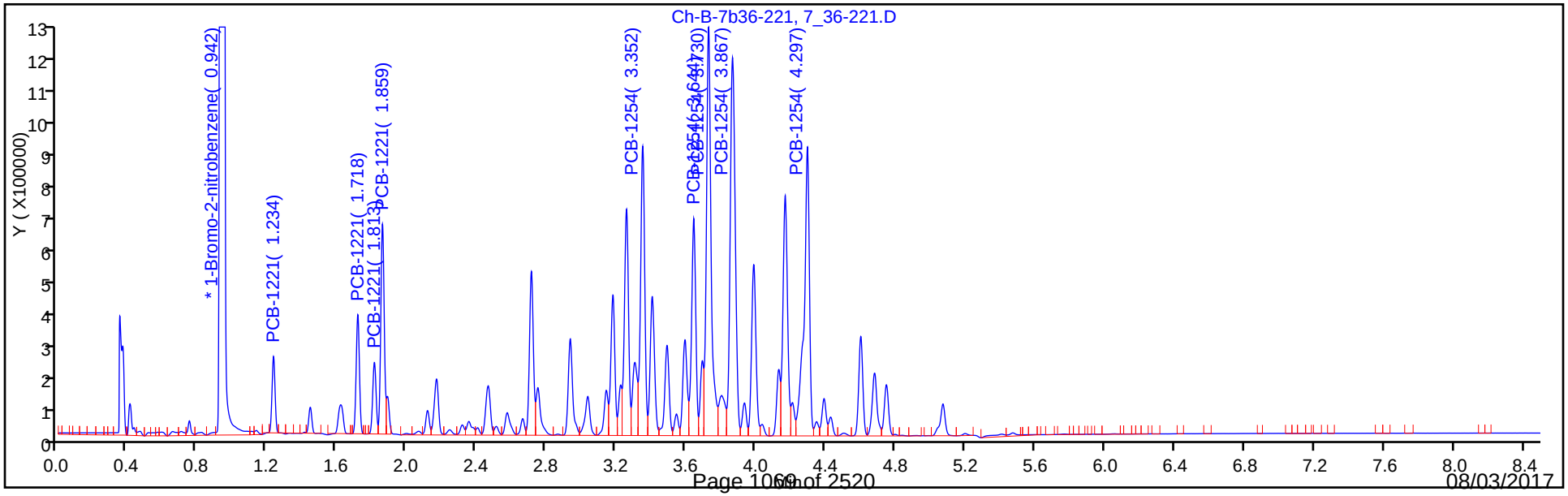
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-221.D

Injection Date:	26-Jul-2017 12:14:50	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/7 Calibration Date: 07/26/2017 12:14

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_36-221.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0072		0.515	0.500	3.1	20.0
PCB-1221 Peak 2	Lin1		0.0121		0.556	0.500	11.2	20.0
PCB-1221 Peak 3	Lin1		0.0076		0.576	0.500	15.1	20.0
PCB-1221 Peak 4	Lin1		0.0226		0.534	0.500	6.7	20.0
PCB-1254 Peak 1	Lin1		0.0377		0.507	0.500	1.3	20.0
PCB-1254 Peak 2	Lin1		0.0283		0.519	0.500	3.7	20.0
PCB-1254 Peak 3	Lin1		0.0604		0.511	0.500	2.2	20.0
PCB-1254 Peak 4	Lin1		0.0601		0.501	0.500	0.2	20.0
PCB-1254 Peak 5	Lin1		0.0488		0.483	0.500	-3.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/7 Calibration Date: 07/26/2017 12:14

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_36-221.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.23	1.20	1.26
PCB-1221 Peak 2	1.72	1.69	1.75
PCB-1221 Peak 3	1.81	1.78	1.84
PCB-1221 Peak 4	1.86	1.83	1.89
PCB-1254 Peak 1	3.35	3.32	3.38
PCB-1254 Peak 2	3.64	3.61	3.67
PCB-1254 Peak 3	3.73	3.70	3.76
PCB-1254 Peak 4	3.87	3.84	3.90
PCB-1254 Peak 5	4.30	4.27	4.33

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-221.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:14:50 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:15:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:15:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	15324796	0.5000	0.5000	
2	0.942	0.942	0.000	38531583	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.523	1.523	0.000	103849	0.5000	0.4783	
1	2.101	2.101	0.000	201953	0.5000	0.5896	
1	2.176	2.176	0.000	121860	0.5000	0.5860	
1	2.223	2.223	0.000	459134	0.5000	0.5999	
		Average of Peak Amounts =				0.5635	
2	1.234	1.234	0.000	278327	0.5000	0.5154	M
2	1.718	1.718	0.000	466787	0.5000	0.5558	M
2	1.813	1.813	0.000	293182	0.5000	0.5757	M
2	1.859	1.859	0.000	870603	0.5000	0.5336	M
		Average of Peak Amounts =				0.5451	
						RPD = 3.31	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.859	3.859	0.000	957374	0.5000	0.6030	
1	4.081	4.081	0.000	610084	0.5000	0.5862	
1	4.162	4.162	0.000	1115742	0.5000	0.5927	
1	4.360	4.360	0.000	1117902	0.5000	0.5859	
1	4.765	4.765	0.000	884361	0.5000	0.5494	
		Average of Peak Amounts =				0.5834	
2	3.352	3.352	0.000	1450809	0.5000	0.5065	
2	3.644	3.644	0.000	1090308	0.5000	0.5187	
2	3.730	3.730	0.000	2326215	0.5000	0.5109	
2	3.867	3.867	0.000	2317322	0.5000	0.5011	
2	4.297	4.297	0.000	1878722	0.5000	0.4827	
		Average of Peak Amounts =				0.5040	
						RPD = 14.61	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00009 Amount Added: 1.00 Units: mL

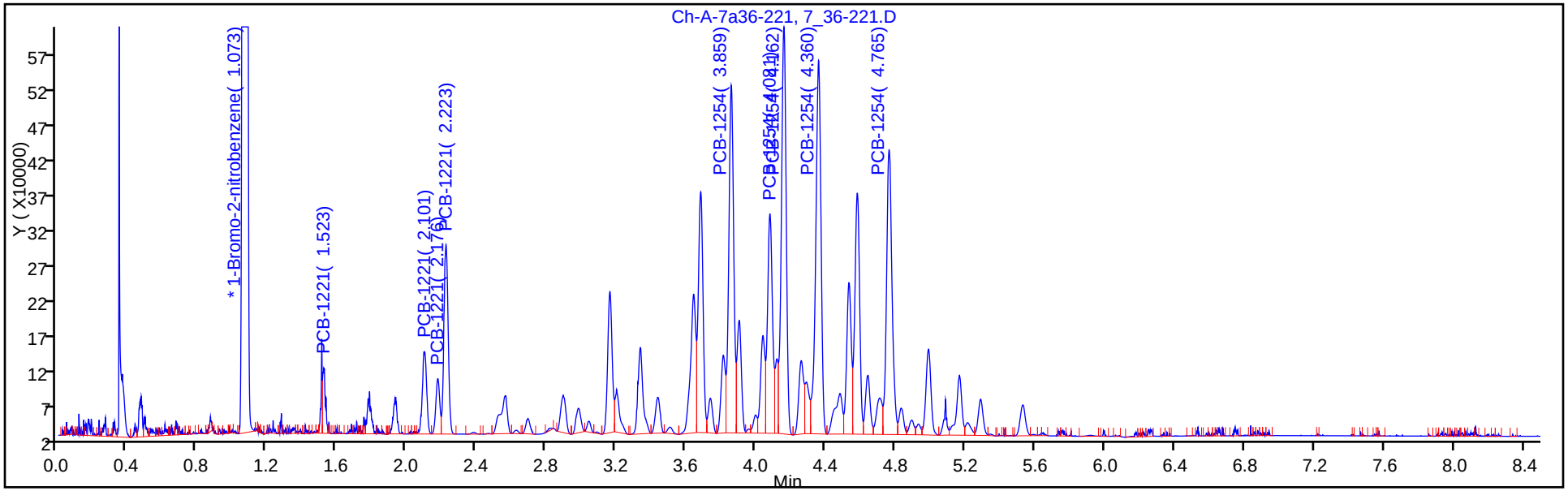
Report Date: 26-Jul-2017 15:16:00 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

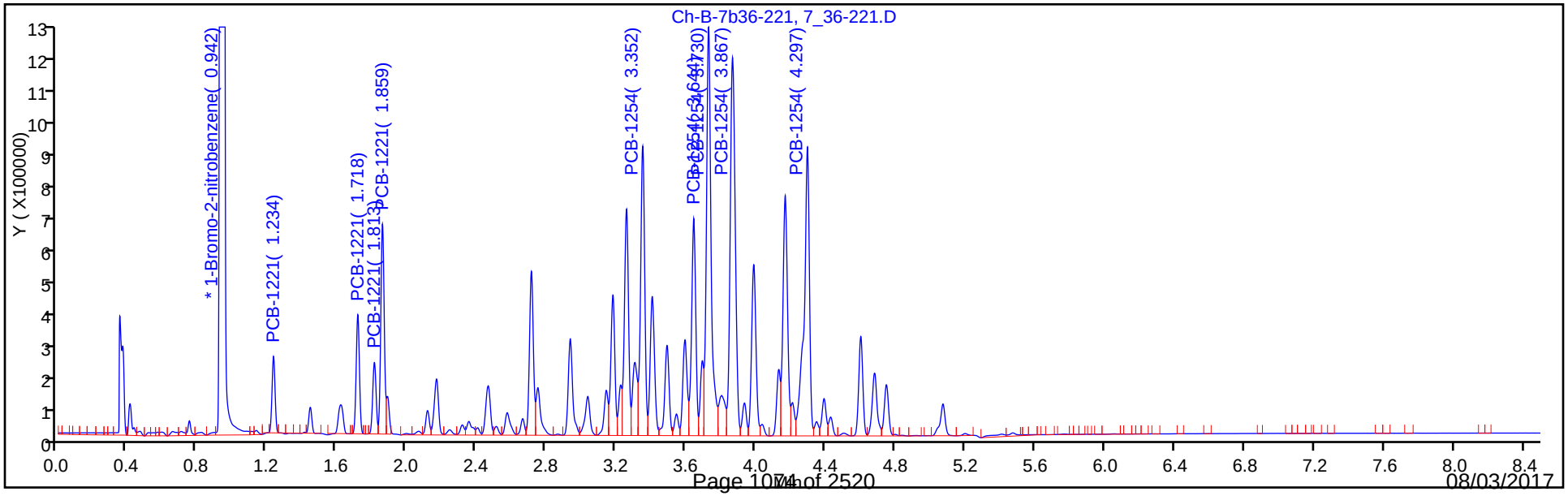
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-221.D

Injection Date:	26-Jul-2017 12:14:50	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 26-Jul-2017 15:16:00 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-221.D

Injection Date: 26-Jul-2017 12:14:50 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

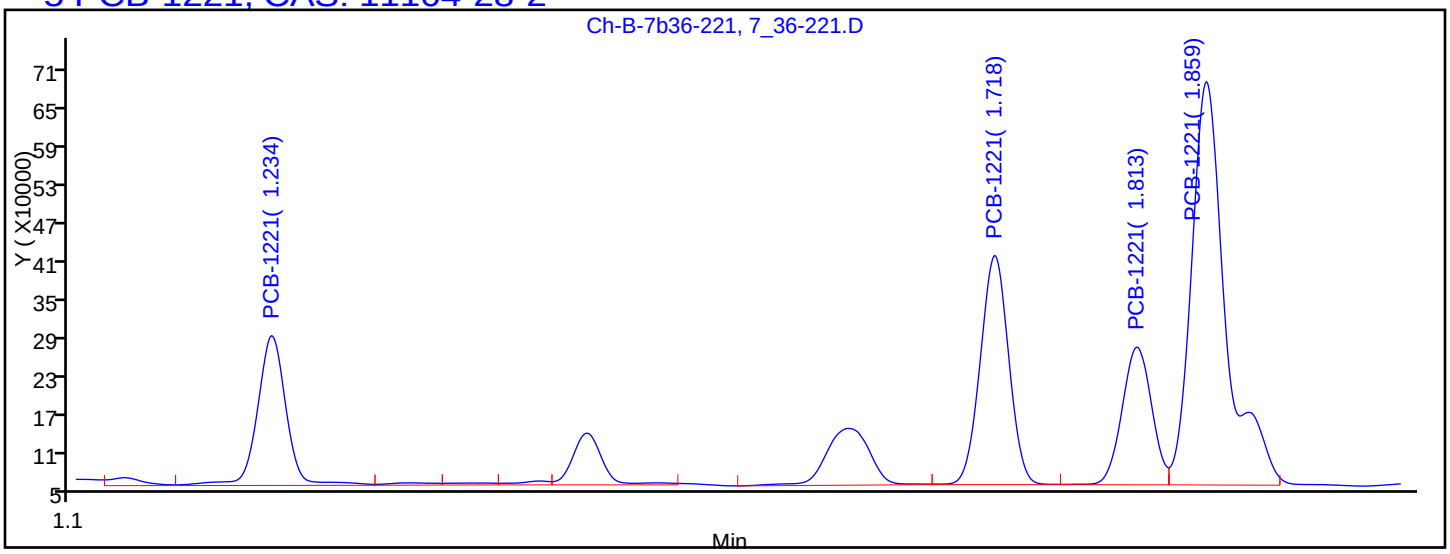
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

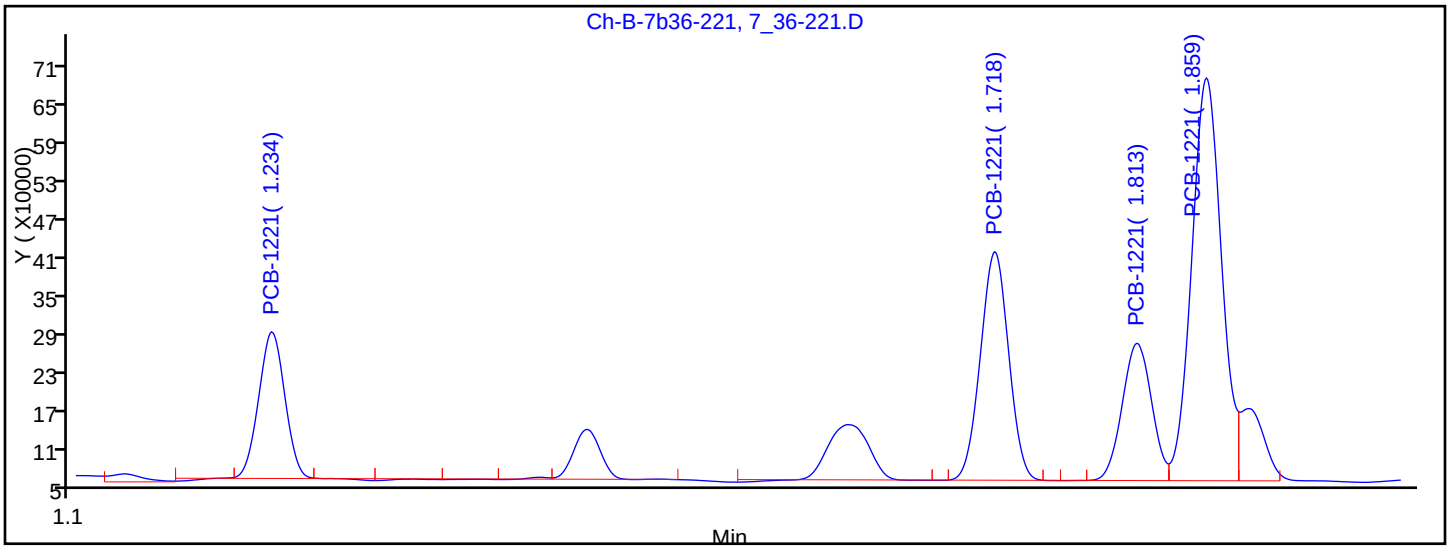
Column: Detector Ch-B-7b136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.234	Response = 312718
1.718	Response = 471808
1.813	Response = 296332
1.859	Response = 999243



Manual Integration Results

1.234	Response = 278327	M
1.718	Response = 466787	M
1.813	Response = 293182	M
1.859	Response = 870603	M

Reviewer: owenj, 26-Jul-2017 12:40:51

Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/8 Calibration Date: 07/26/2017 12:30

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_36-222.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0245		0.567	0.500	13.5	20.0
PCB-1232 Peak 2	Lin1		0.0128		0.566	0.500	13.3	20.0
PCB-1232 Peak 3	Lin1		0.0421		0.545	0.500	9.1	20.0
PCB-1232 Peak 4	Lin1		0.0166		0.564	0.500	12.7	20.0
PCB-1232 Peak 5	Lin1		0.0112		0.553	0.500	10.6	20.0
PCB-1262 Peak 1	Lin1		0.0584		0.547	0.500	9.3	20.0
PCB-1262 Peak 2	Lin1		0.0428		0.515	0.500	3.0	20.0
PCB-1262 Peak 3	Lin1		0.1000		0.510	0.500	1.9	20.0
PCB-1262 Peak 4	Lin1		0.0310		0.493	0.500	-1.4	20.0
PCB-1262 Peak 5	Lin1		0.0391		0.501	0.500	0.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/8 Calibration Date: 07/26/2017 12:30

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_36-222.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.22	2.19	2.25
PCB-1232 Peak 2	2.69	2.66	2.72
PCB-1232 Peak 3	2.90	2.87	2.93
PCB-1232 Peak 4	2.98	2.95	3.01
PCB-1232 Peak 5	3.04	3.01	3.07
PCB-1262 Peak 1	4.89	4.86	4.92
PCB-1262 Peak 2	5.08	5.05	5.11
PCB-1262 Peak 3	5.29	5.26	5.32
PCB-1262 Peak 4	5.53	5.50	5.56
PCB-1262 Peak 5	5.64	5.61	5.67

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-222.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:30:53 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:16:21 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:16:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.072	1.072	0.000	15906645	0.5000	0.5000	
2	0.941	0.941	0.000	40378971	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							
1	2.223	2.223	0.000	388961	0.5000	0.5674	
1	2.688	2.688	0.000	202945	0.5000	0.5664	
1	2.898	2.898	0.000	669367	0.5000	0.5453	
1	2.981	2.981	0.000	263541	0.5000	0.5636	
1	3.043	3.043	0.000	177392	0.5000	0.5528	
		Average of Peak Amounts =				0.5591	
2	1.859	1.859	0.000	869023	0.5000	0.5950	
2	2.163	2.163	0.000	784517	0.5000	0.5328	
2	2.466	2.466	0.000	1418267	0.5000	0.5070	
2	2.573	2.573	0.000	567846	0.5000	0.5311	
2	2.938	2.938	0.000	612948	0.5000	0.5201	
		Average of Peak Amounts =				0.5372	
						RPD = 4.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.893	4.893	0.000	928460	0.5000	0.5467	
1	5.083	5.083	0.000	680293	0.5000	0.5152	
1	5.290	5.290	0.000	1590978	0.5000	0.5096	
1	5.532	5.532	0.000	493073	0.5000	0.4932	
1	5.641	5.641	0.000	621221	0.5000	0.5009	
		Average of Peak Amounts =				0.5131	
2	4.348	4.348	0.000	1774055	0.5000	0.4273	
2	4.603	4.603	0.000	1505966	0.5000	0.4539	
2	4.749	4.749	0.000	3250369	0.5000	0.4102	
2	5.042	5.042	0.000	1387420	0.5000	0.4133	
2	5.077	5.077	0.000	2019406	0.5000	0.4163	
		Average of Peak Amounts =				0.4242	
						RPD = 18.97	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

32-62w/IS@0.5_00009 Amount Added: 1.00 Units: mL

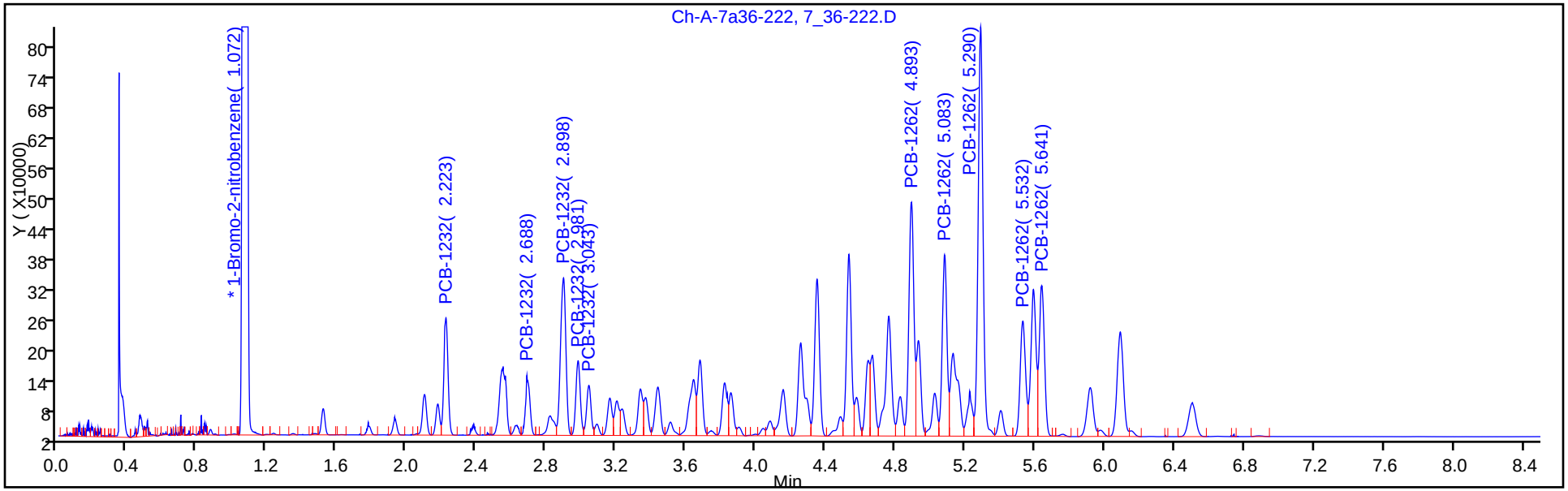
Report Date: 26-Jul-2017 15:16:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

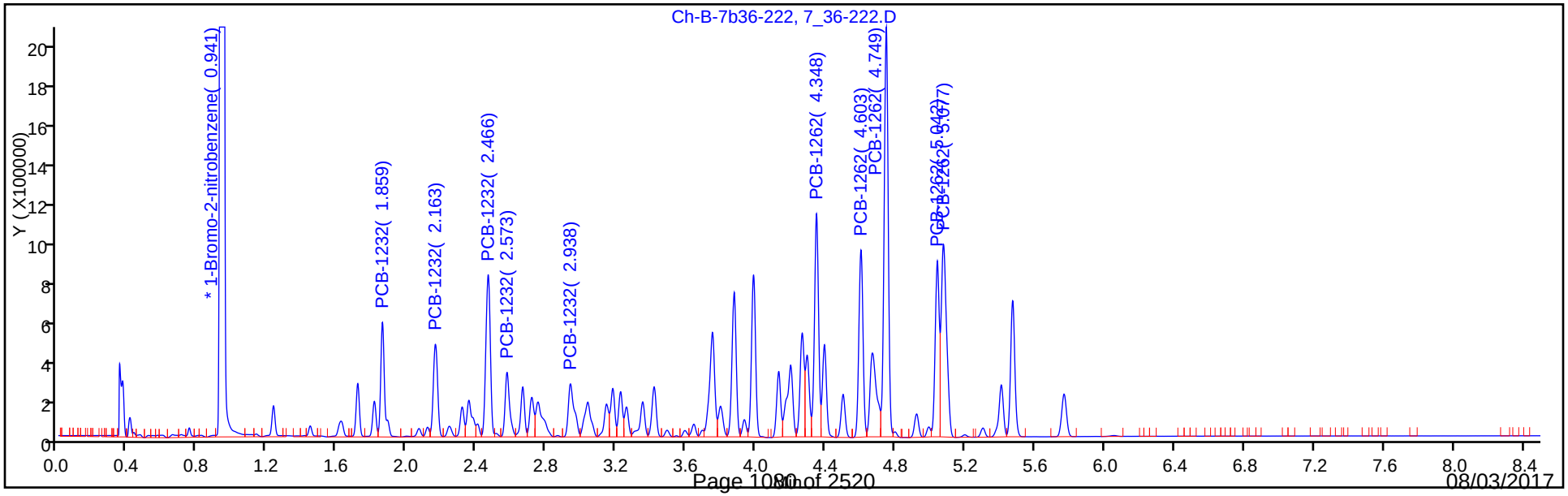
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-222.D

Injection Date:	26-Jul-2017 12:30:53	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/8 Calibration Date: 07/26/2017 12:30

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_36-222.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0215		0.595	0.500	19.0	20.0
PCB-1232 Peak 2	Lin1		0.0194		0.533	0.500	6.6	20.0
PCB-1232 Peak 3	Lin1		0.0351		0.507	0.500	1.4	20.0
PCB-1232 Peak 4	Lin1		0.0141		0.531	0.500	6.2	20.0
PCB-1232 Peak 5	Lin1		0.0152		0.520	0.500	4.0	20.0
PCB-1262 Peak 1	Lin1		0.0439		0.427	0.500	-14.5	20.0
PCB-1262 Peak 2	Lin1		0.0373		0.454	0.500	-9.2	20.0
PCB-1262 Peak 3	Lin1		0.0805		0.410	0.500	-18.0	20.0
PCB-1262 Peak 4	Lin1		0.0344		0.413	0.500	-17.3	20.0
PCB-1262 Peak 5	Lin1		0.0500		0.416	0.500	-16.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/8 Calibration Date: 07/26/2017 12:30

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_36-222.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	1.86	1.83	1.89
PCB-1232 Peak 2	2.16	2.13	2.19
PCB-1232 Peak 3	2.47	2.44	2.50
PCB-1232 Peak 4	2.57	2.54	2.60
PCB-1232 Peak 5	2.94	2.91	2.97
PCB-1262 Peak 1	4.35	4.32	4.38
PCB-1262 Peak 2	4.60	4.57	4.63
PCB-1262 Peak 3	4.75	4.72	4.78
PCB-1262 Peak 4	5.04	5.01	5.07
PCB-1262 Peak 5	5.08	5.05	5.11

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-222.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:30:53 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:16:21 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:16:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.072	1.072	0.000	15906645	0.5000	0.5000	
2	0.941	0.941	0.000	40378971	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							
1	2.223	2.223	0.000	388961	0.5000	0.5674	
1	2.688	2.688	0.000	202945	0.5000	0.5664	
1	2.898	2.898	0.000	669367	0.5000	0.5453	
1	2.981	2.981	0.000	263541	0.5000	0.5636	
1	3.043	3.043	0.000	177392	0.5000	0.5528	
		Average of Peak Amounts =				0.5591	
2	1.859	1.859	0.000	869023	0.5000	0.5950	
2	2.163	2.163	0.000	784517	0.5000	0.5328	
2	2.466	2.466	0.000	1418267	0.5000	0.5070	
2	2.573	2.573	0.000	567846	0.5000	0.5311	
2	2.938	2.938	0.000	612948	0.5000	0.5201	
		Average of Peak Amounts =				0.5372	
						RPD = 4.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.893	4.893	0.000	928460	0.5000	0.5467	
1	5.083	5.083	0.000	680293	0.5000	0.5152	
1	5.290	5.290	0.000	1590978	0.5000	0.5096	
1	5.532	5.532	0.000	493073	0.5000	0.4932	
1	5.641	5.641	0.000	621221	0.5000	0.5009	
		Average of Peak Amounts =				0.5131	
2	4.348	4.348	0.000	1774055	0.5000	0.4273	
2	4.603	4.603	0.000	1505966	0.5000	0.4539	
2	4.749	4.749	0.000	3250369	0.5000	0.4102	
2	5.042	5.042	0.000	1387420	0.5000	0.4133	
2	5.077	5.077	0.000	2019406	0.5000	0.4163	
		Average of Peak Amounts =				0.4242	
						RPD = 18.97	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

32-62w/IS@0.5_00009 Amount Added: 1.00 Units: mL

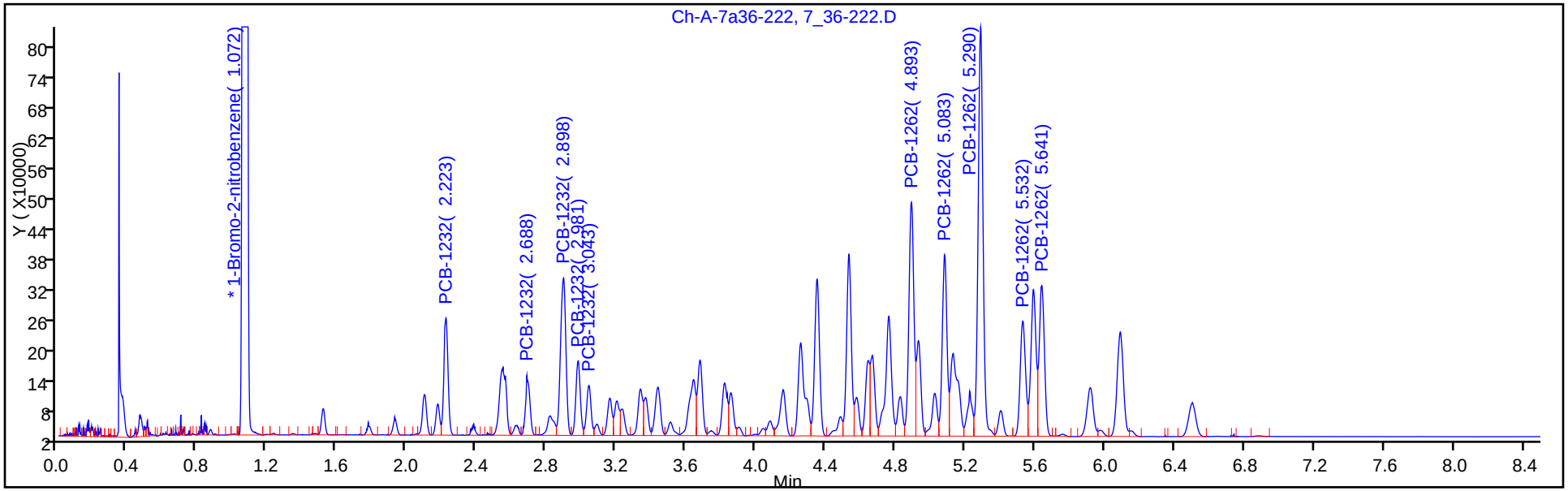
Report Date: 26-Jul-2017 15:16:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

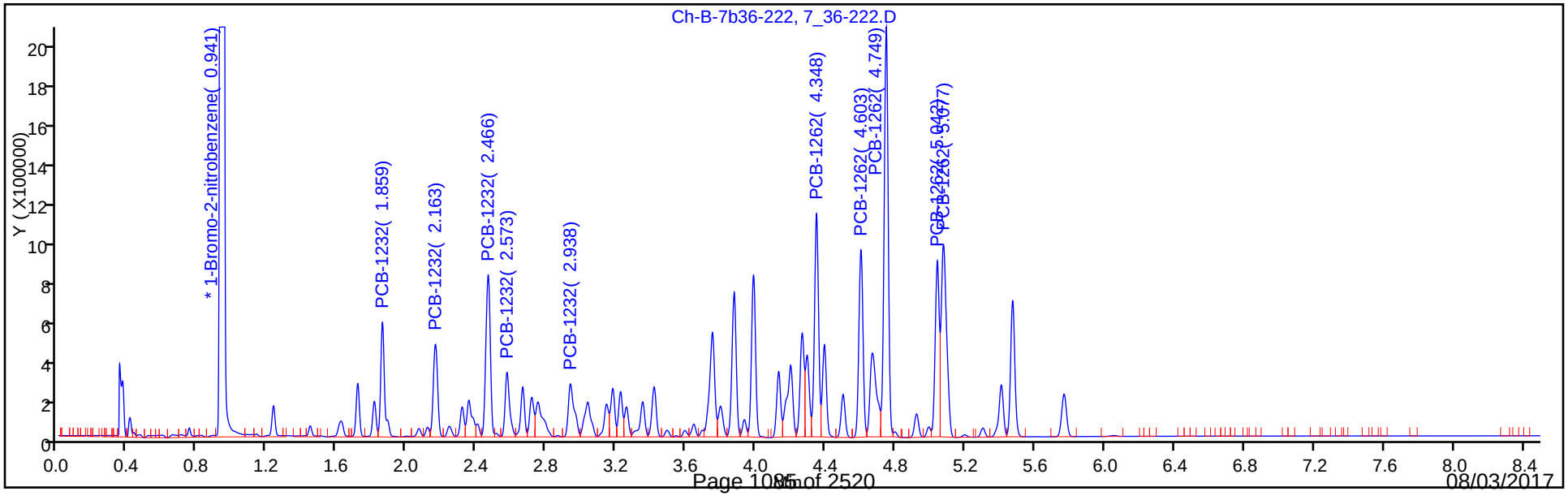
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-222.D

Injection Date:	26-Jul-2017 12:30:53	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/9 Calibration Date: 07/26/2017 12:47

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_36-223.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0714		0.526	0.500	5.1	20.0
PCB-1242 Peak 2	Lin1		0.0273		0.533	0.500	6.7	20.0
PCB-1242 Peak 3	Lin1		0.0207		0.533	0.500	6.6	20.0
PCB-1242 Peak 4	Lin1		0.0245		0.534	0.500	6.9	20.0
PCB-1242 Peak 5	Lin1		0.0357		0.548	0.500	9.6	20.0
PCB-1268 Peak 1	Lin1		0.1099		0.509	0.500	1.8	20.0
PCB-1268 Peak 2	Lin1		0.0989		0.496	0.500	-0.9	20.0
PCB-1268 Peak 3	Lin1		0.0859		0.513	0.500	2.6	20.0
PCB-1268 Peak 4	Lin1		0.0361		0.482	0.500	-3.6	20.0
PCB-1268 Peak 5	Lin1		0.2711		0.505	0.500	1.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/9 Calibration Date: 07/26/2017 12:47

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_36-223.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.90	2.87	2.93
PCB-1242 Peak 2	2.98	2.95	3.01
PCB-1242 Peak 3	3.34	3.31	3.37
PCB-1242 Peak 4	3.44	3.41	3.47
PCB-1242 Peak 5	3.65	3.62	3.68
PCB-1268 Peak 1	5.60	5.57	5.63
PCB-1268 Peak 2	5.64	5.61	5.67
PCB-1268 Peak 3	5.90	5.87	5.93
PCB-1268 Peak 4	6.09	6.06	6.12
PCB-1268 Peak 5	6.50	6.47	6.53

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-223.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:47:12 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:16:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:16:48

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	16348565	0.5000	0.5000	
2	0.942	0.942	0.000	42030383	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	2.897	2.897	0.000	1167351	0.5000	0.5255	
1	2.982	2.982	0.000	445688	0.5000	0.5334	
1	3.341	3.341	0.000	338889	0.5000	0.5330	
1	3.441	3.441	0.000	400486	0.5000	0.5345	
1	3.646	3.646	0.000	583442	0.5000	0.5479	
		Average of Peak Amounts =				0.5349	
2	2.467	2.467	0.000	2421004	0.5000	0.4832	
2	2.574	2.574	0.000	954552	0.5000	0.4958	
2	2.938	2.938	0.000	1118078	0.5000	0.4900	
2	3.181	3.181	0.000	733977	0.5000	0.4436	
2	3.225	3.225	0.000	686690	0.5000	0.4668	
		Average of Peak Amounts =				0.4759	
						RPD = 11.68	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.595	5.595	0.000	1796081	0.5000	0.5089	
1	5.641	5.641	0.000	1617277	0.5000	0.4957	
1	5.903	5.903	0.000	1404301	0.5000	0.5131	
1	6.091	6.091	0.000	590827	0.5000	0.4818	
1	6.503	6.503	0.000	4432707	0.5000	0.5049	
		Average of Peak Amounts =				0.5009	
2	5.042	5.042	0.000	3708824	0.5000	0.4110	
2	5.080	5.080	0.000	3434807	0.5000	0.4142	
2	5.303	5.303	0.000	2812154	0.5000	0.3995	
2	5.474	5.474	0.000	1243880	0.5000	0.3886	
2	5.770	5.770	0.000	9983114	0.5000	0.4109	
		Average of Peak Amounts =				0.4048	
						RPD = 21.21	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

42-68w/IS@0.5_00009 Amount Added: 1.00 Units: mL

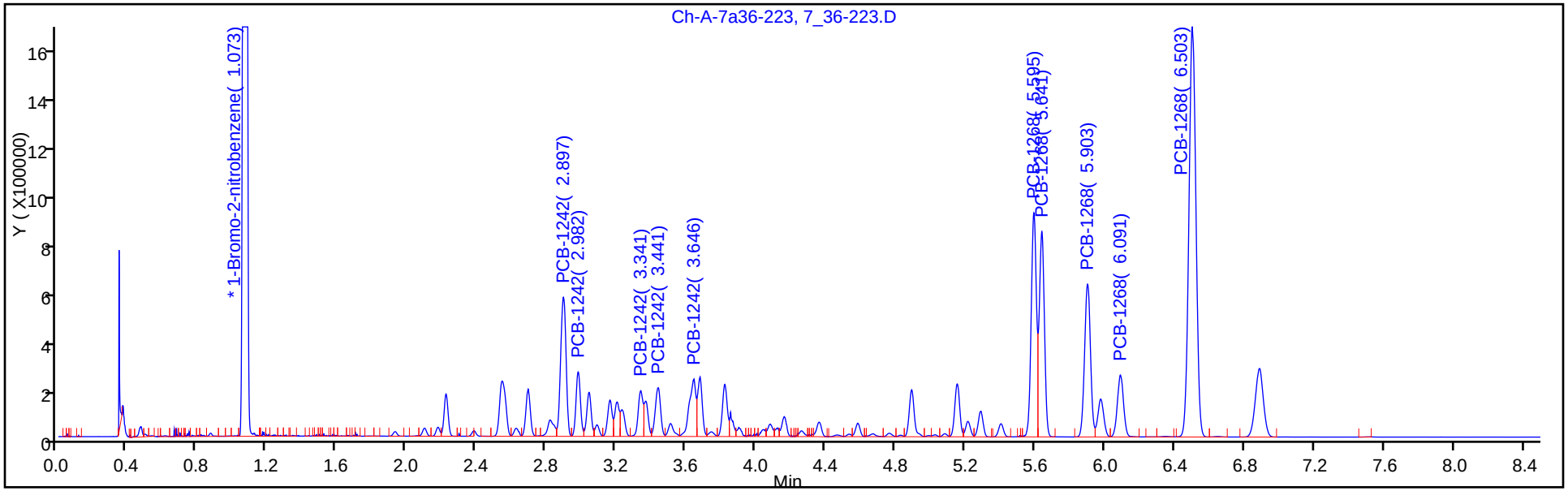
Report Date: 26-Jul-2017 15:16:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

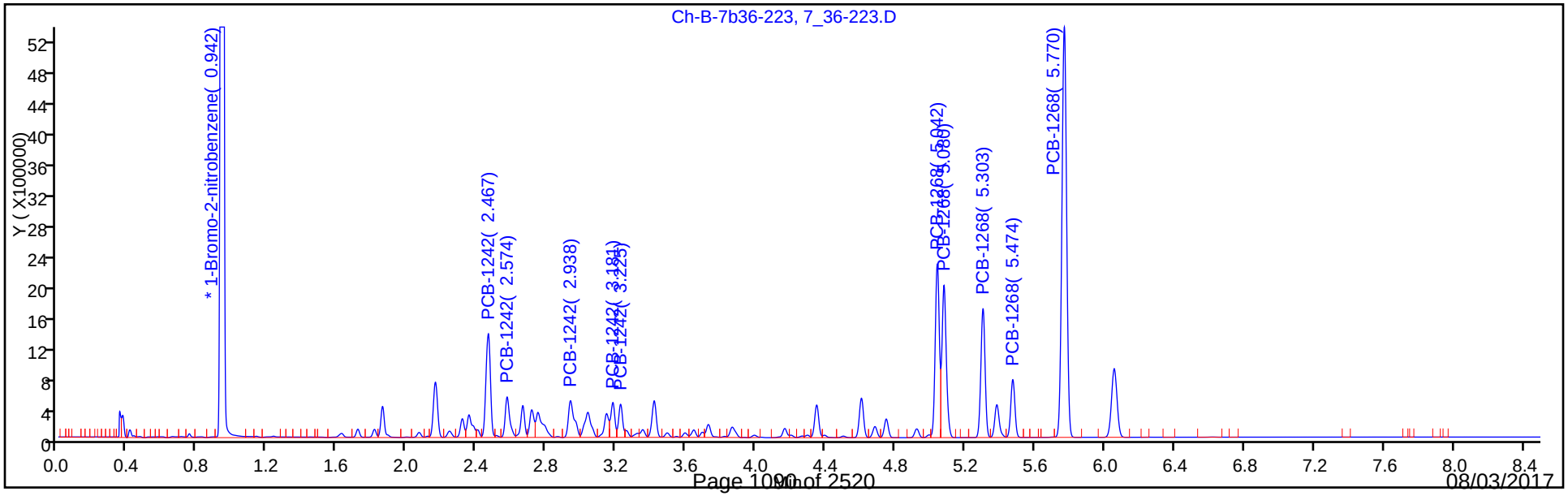
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-223.D

Injection Date:	26-Jul-2017 12:47:12	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/9 Calibration Date: 07/26/2017 12:47

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_36-223.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0576		0.483	0.500	-3.4	20.0
PCB-1242 Peak 2	Lin1		0.0227		0.496	0.500	-0.8	20.0
PCB-1242 Peak 3	Lin1		0.0266		0.490	0.500	-2.0	20.0
PCB-1242 Peak 4	Lin1		0.0175		0.444	0.500	-11.3	20.0
PCB-1242 Peak 5	Lin1		0.0163		0.467	0.500	-6.6	20.0
PCB-1268 Peak 1	Lin1		0.0882		0.411	0.500	-17.8	20.0
PCB-1268 Peak 2	Lin1		0.0817		0.414	0.500	-17.2	20.0
PCB-1268 Peak 3	Lin1		0.0669		0.399	0.500	-20.1*	20.0
PCB-1268 Peak 4	Lin1		0.0296		0.389	0.500	-22.3*	20.0
PCB-1268 Peak 5	Lin1		0.2375		0.411	0.500	-17.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/9 Calibration Date: 07/26/2017 12:47

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_36-223.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.47	2.44	2.50
PCB-1242 Peak 2	2.57	2.54	2.60
PCB-1242 Peak 3	2.94	2.91	2.97
PCB-1242 Peak 4	3.18	3.15	3.21
PCB-1242 Peak 5	3.23	3.20	3.26
PCB-1268 Peak 1	5.04	5.01	5.07
PCB-1268 Peak 2	5.08	5.05	5.11
PCB-1268 Peak 3	5.30	5.27	5.33
PCB-1268 Peak 4	5.47	5.44	5.50
PCB-1268 Peak 5	5.77	5.74	5.80

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-223.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:47:12 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:16:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:16:48

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	16348565	0.5000	0.5000	
2	0.942	0.942	0.000	42030383	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	2.897	2.897	0.000	1167351	0.5000	0.5255	
1	2.982	2.982	0.000	445688	0.5000	0.5334	
1	3.341	3.341	0.000	338889	0.5000	0.5330	
1	3.441	3.441	0.000	400486	0.5000	0.5345	
1	3.646	3.646	0.000	583442	0.5000	0.5479	
		Average of Peak Amounts =				0.5349	
2	2.467	2.467	0.000	2421004	0.5000	0.4832	
2	2.574	2.574	0.000	954552	0.5000	0.4958	
2	2.938	2.938	0.000	1118078	0.5000	0.4900	
2	3.181	3.181	0.000	733977	0.5000	0.4436	
2	3.225	3.225	0.000	686690	0.5000	0.4668	
		Average of Peak Amounts =				0.4759	
						RPD = 11.68	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.595	5.595	0.000	1796081	0.5000	0.5089	
1	5.641	5.641	0.000	1617277	0.5000	0.4957	
1	5.903	5.903	0.000	1404301	0.5000	0.5131	
1	6.091	6.091	0.000	590827	0.5000	0.4818	
1	6.503	6.503	0.000	4432707	0.5000	0.5049	
		Average of Peak Amounts =				0.5009	
2	5.042	5.042	0.000	3708824	0.5000	0.4110	
2	5.080	5.080	0.000	3434807	0.5000	0.4142	
2	5.303	5.303	0.000	2812154	0.5000	0.3995	
2	5.474	5.474	0.000	1243880	0.5000	0.3886	
2	5.770	5.770	0.000	9983114	0.5000	0.4109	
		Average of Peak Amounts =				0.4048	
						RPD = 21.21	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

42-68w/IS@0.5_00009 Amount Added: 1.00 Units: mL

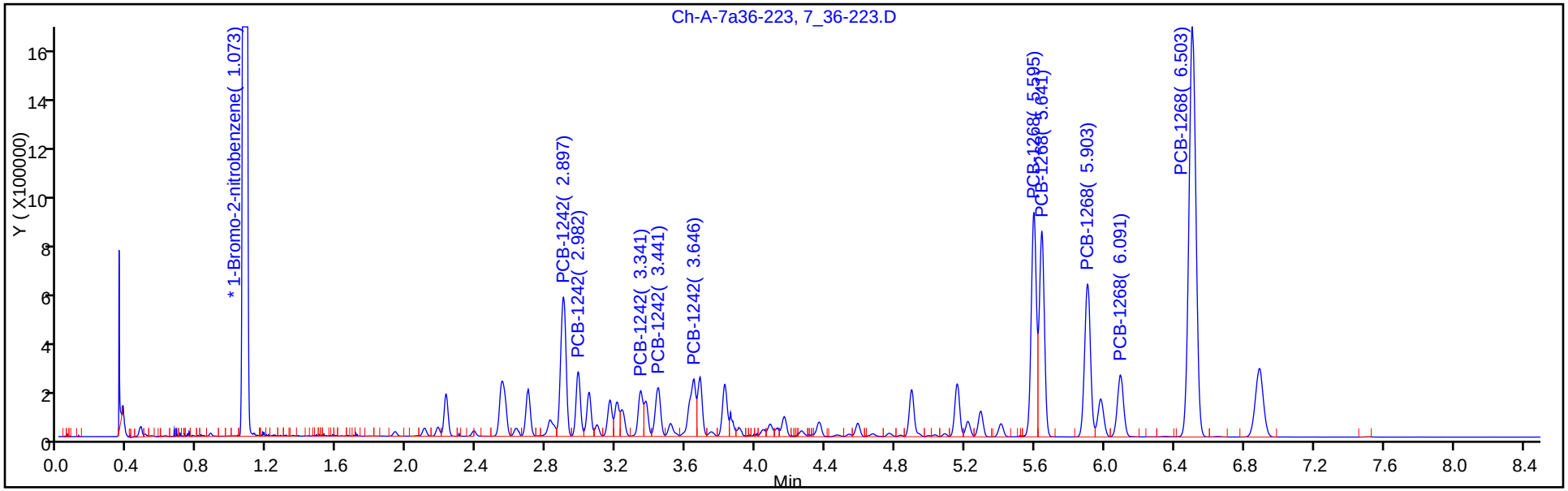
Report Date: 26-Jul-2017 15:16:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

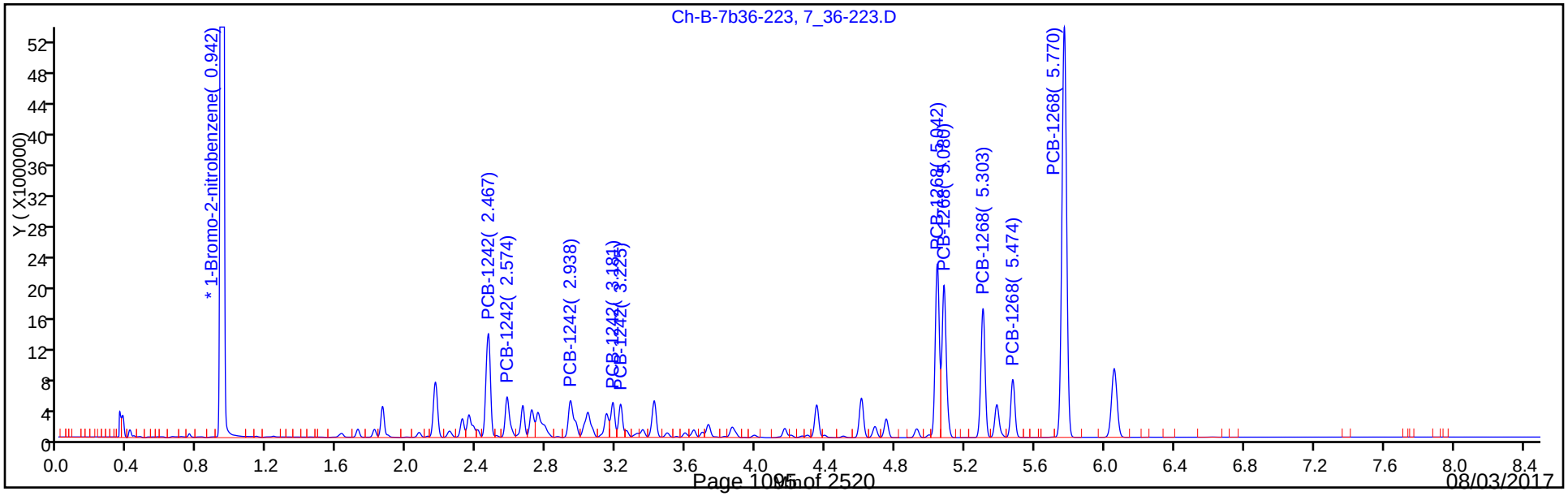
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-223.D

Injection Date:	26-Jul-2017 12:47:12	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/10 Calibration Date: 07/26/2017 13:03

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_36-224.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0475		0.543	0.500	8.6	20.0
PCB-1248 Peak 2	Lin1		0.0372		0.524	0.500	4.7	20.0
PCB-1248 Peak 3	Lin1		0.0600		0.514	0.500	2.7	20.0
PCB-1248 Peak 4	Lin1		0.0443		0.586	0.500	17.2	20.0
PCB-1248 Peak 5	Lin1		0.0373		0.513	0.500	2.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/10 Calibration Date: 07/26/2017 13:03

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_36-224.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.34	3.31	3.37
PCB-1248 Peak 2	3.44	3.41	3.47
PCB-1248 Peak 3	3.64	3.61	3.67
PCB-1248 Peak 4	3.68	3.65	3.71
PCB-1248 Peak 5	3.82	3.79	3.85

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-224.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 13:03:06 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:09 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:09

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.071	1.071	0.000	16039504	0.5000	0.5000	
2	0.941	0.941	0.000	41177745	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	3.338	3.338	0.000	761384	0.5000	0.5429	
1	3.438	3.438	0.000	596211	0.5000	0.5235	
1	3.643	3.643	0.000	962477	0.5000	0.5137	
1	3.678	3.678	0.000	711017	0.5000	0.5861	
1	3.821	3.821	0.000	598943	0.5000	0.5134	
		Average of Peak Amounts =				0.5359	
2	2.936	2.936	0.000	1200478	0.5000	0.5140	M
2	3.036	3.036	0.000	1250797	0.5000	0.5814	
2	3.181	3.181	0.000	1275488	0.5000	0.5672	
2	3.224	3.224	0.000	1062018	0.5000	0.4962	
2	3.417	3.417	0.000	1319488	0.5000	0.5337	
		Average of Peak Amounts =				0.5385	
						RPD = 0.48	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00009 Amount Added: 1.00 Units: mL

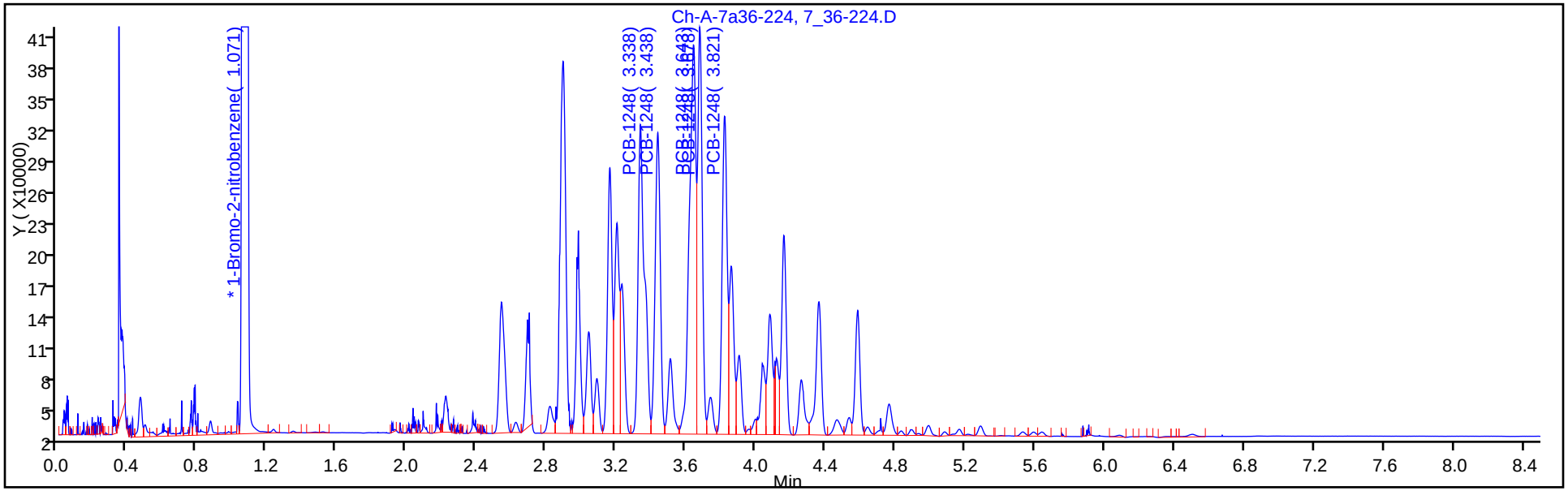
Report Date: 26-Jul-2017 15:17:10 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

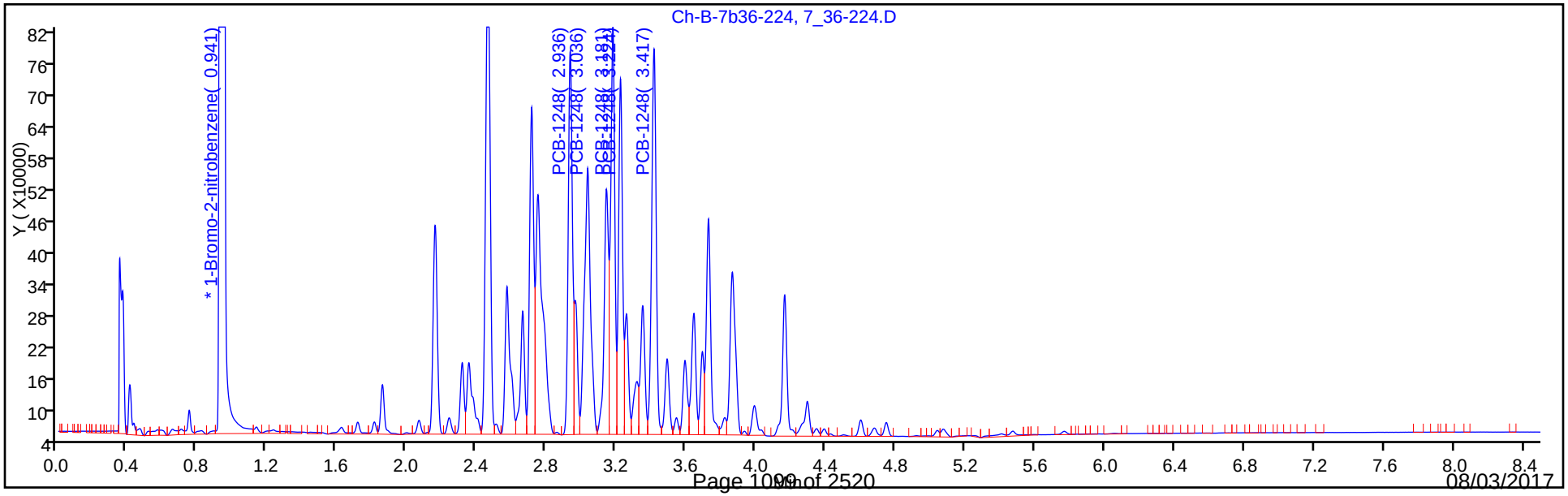
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-224.D

Injection Date:	26-Jul-2017 13:03:06	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/10 Calibration Date: 07/26/2017 13:03

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_36-224.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0292		0.514	0.500	2.8	20.0
PCB-1248 Peak 2	Lin1		0.0304		0.581	0.500	16.3	20.0
PCB-1248 Peak 3	Lin1		0.0310		0.567	0.500	13.4	20.0
PCB-1248 Peak 4	Lin1		0.0258		0.496	0.500	-0.8	20.0
PCB-1248 Peak 5	Lin1		0.0320		0.534	0.500	6.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: CCV 480-368775/10 Calibration Date: 07/26/2017 13:03

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_36-224.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	2.94	2.91	2.97
PCB-1248 Peak 2	3.04	3.01	3.07
PCB-1248 Peak 3	3.18	3.15	3.21
PCB-1248 Peak 4	3.22	3.19	3.25
PCB-1248 Peak 5	3.42	3.39	3.45

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-224.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 13:03:06 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:09 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:09

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.071	1.071	0.000	16039504	0.5000	0.5000	
2	0.941	0.941	0.000	41177745	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	3.338	3.338	0.000	761384	0.5000	0.5429	
1	3.438	3.438	0.000	596211	0.5000	0.5235	
1	3.643	3.643	0.000	962477	0.5000	0.5137	
1	3.678	3.678	0.000	711017	0.5000	0.5861	
1	3.821	3.821	0.000	598943	0.5000	0.5134	
		Average of Peak Amounts =				0.5359	
2	2.936	2.936	0.000	1200478	0.5000	0.5140	M
2	3.036	3.036	0.000	1250797	0.5000	0.5814	
2	3.181	3.181	0.000	1275488	0.5000	0.5672	
2	3.224	3.224	0.000	1062018	0.5000	0.4962	
2	3.417	3.417	0.000	1319488	0.5000	0.5337	
		Average of Peak Amounts =				0.5385	
						RPD = 0.48	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00009 Amount Added: 1.00 Units: mL

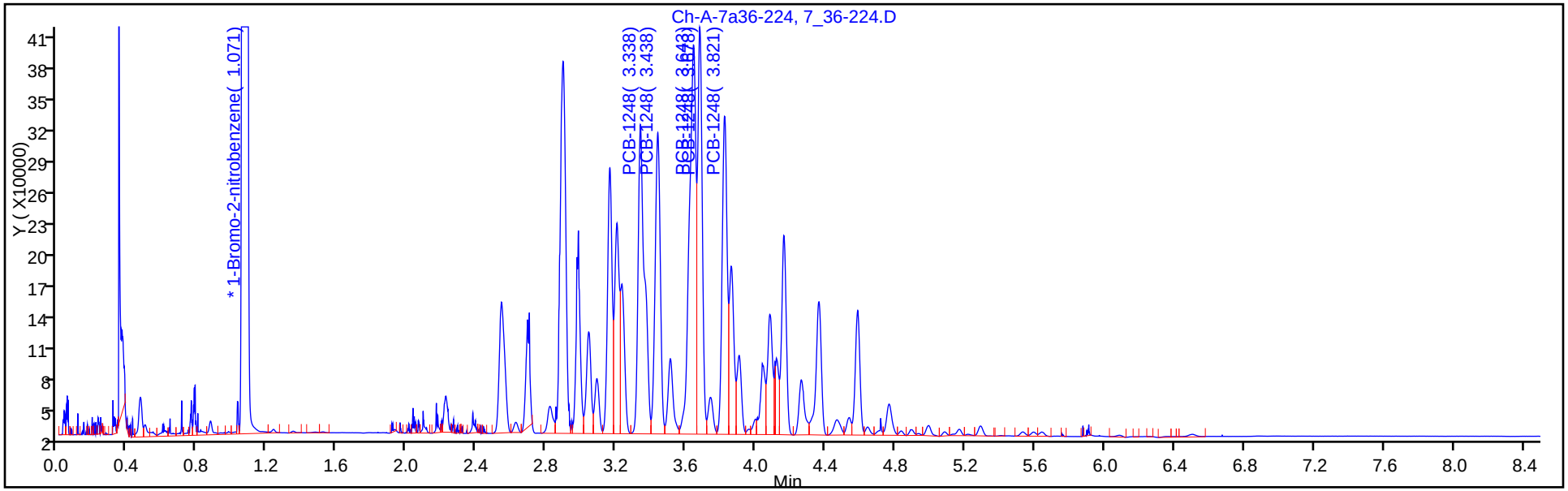
Report Date: 26-Jul-2017 15:17:10 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

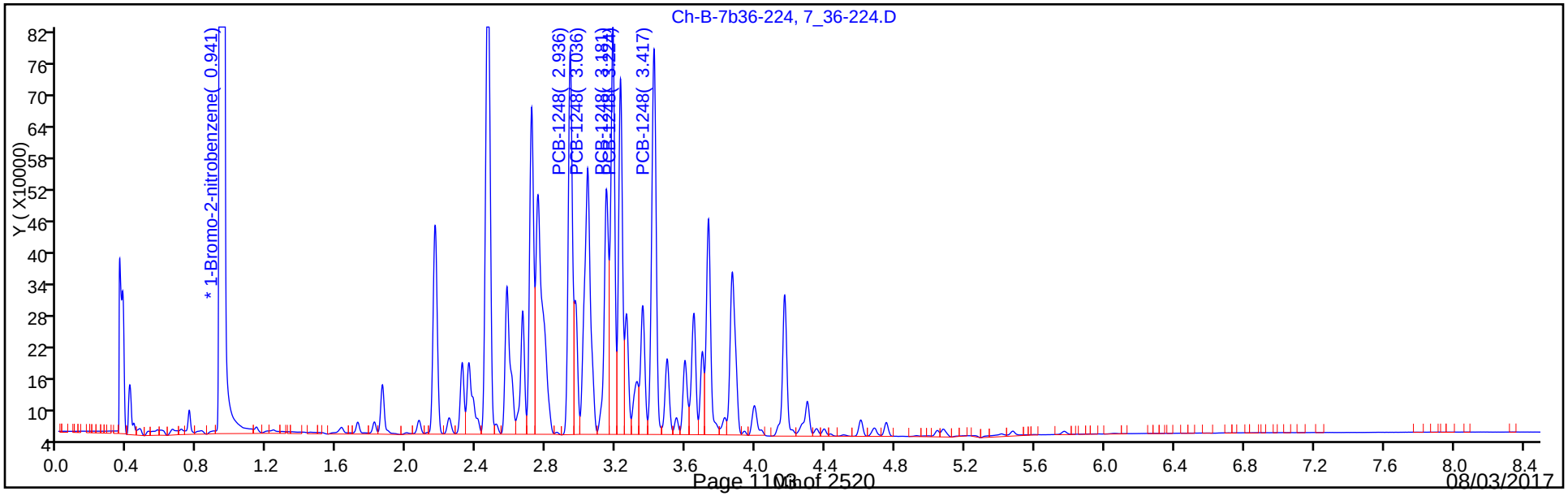
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-224.D

Injection Date:	26-Jul-2017 13:03:06	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 26-Jul-2017 15:17:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-224.D

Injection Date: 26-Jul-2017 13:03:06 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

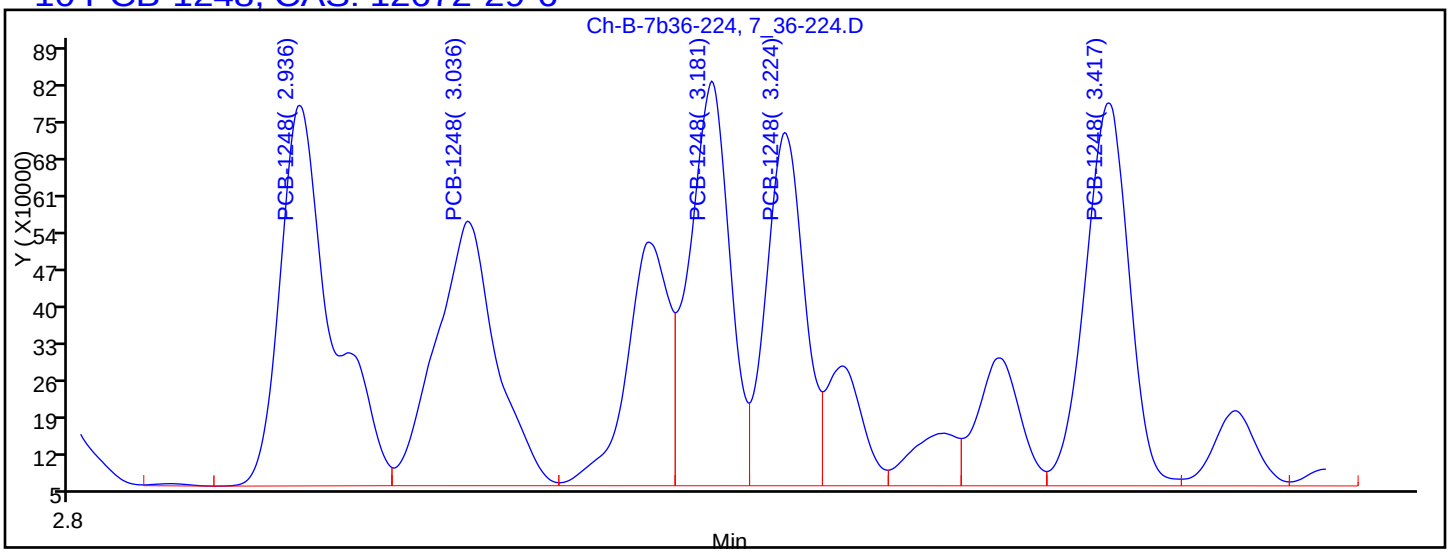
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

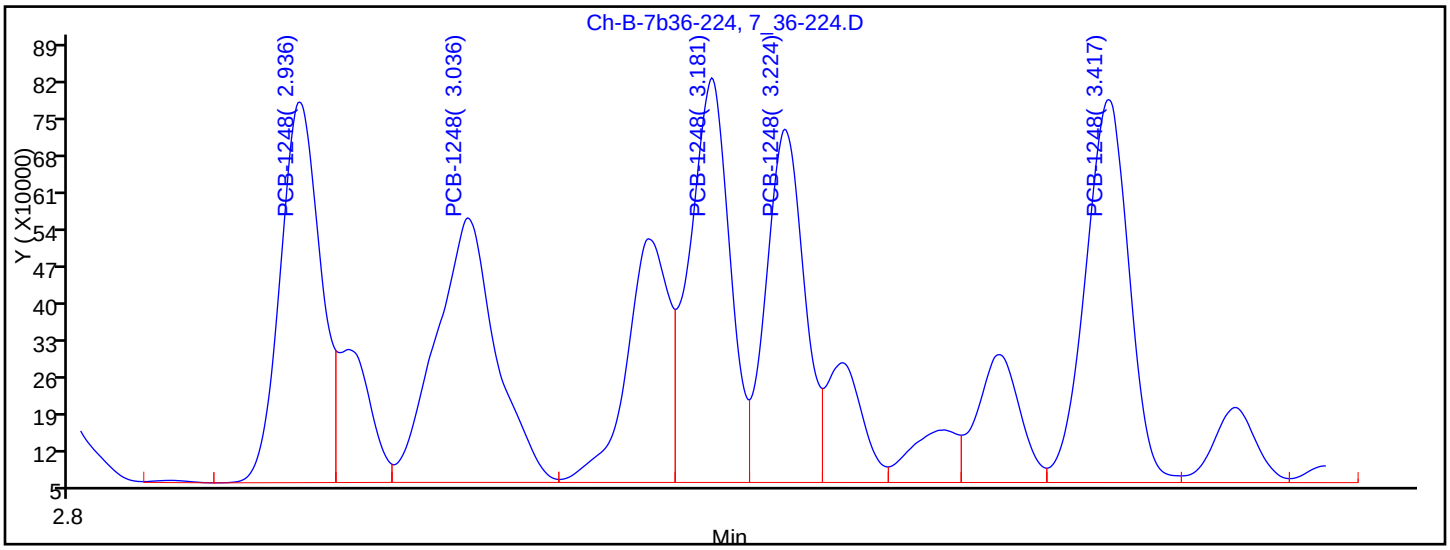
Column: Detector Ch-B-7b136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

2.936	Response = 1543742
3.036	Response = 1250797
3.181	Response = 1275488
3.224	Response = 1062018
3.417	Response = 1319488



Manual Integration Results

2.936	Response = 1200478	M
3.036	Response = 1250797	
3.181	Response = 1275488	
3.224	Response = 1062018	
3.417	Response = 1319488	

Reviewer: owenj, 26-Jul-2017 13:34:08

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368288/1-A

Matrix: Solid | Lab File ID: 6_28-243.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.88(g) | Date Analyzed: 07/24/2017 22:44

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.17	0.034
11104-28-2	PCB-1221	ND		0.17	0.034
11141-16-5	PCB-1232	ND		0.17	0.034
53469-21-9	PCB-1242	ND		0.17	0.034
12672-29-6	PCB-1248	ND		0.17	0.034
11097-69-1	PCB-1254	ND		0.17	0.081
11096-82-5	PCB-1260	ND		0.17	0.081
37324-23-5	PCB-1262	ND		0.17	0.081
11100-14-4	PCB-1268	ND		0.17	0.081

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	132		60-154
2051-24-3	DCB Decachlorobiphenyl	116		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-243.D
Lims ID: MB 480-368288/1-A
Client ID:
Sample Type: MB
Inject. Date: 24-Jul-2017 22:44:39 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:54:10 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:54:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.002	0.999	0.003	14430476	0.5000	0.5000	
2	1.099	1.103	-0.003	199660854	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.900	1.894	0.006	654879	0.0200	0.0264	
2	1.723	1.725	-0.003	12522214	0.0200	0.0317	M
						RPD = 18.48	
$ 15 DCB Decachlorobiphenyl							
1	6.459	6.453	0.007	297723	0.0200	0.0233	
2	6.388	6.387	0.001	3087689	0.0200	0.0266	
						RPD = 13.31	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

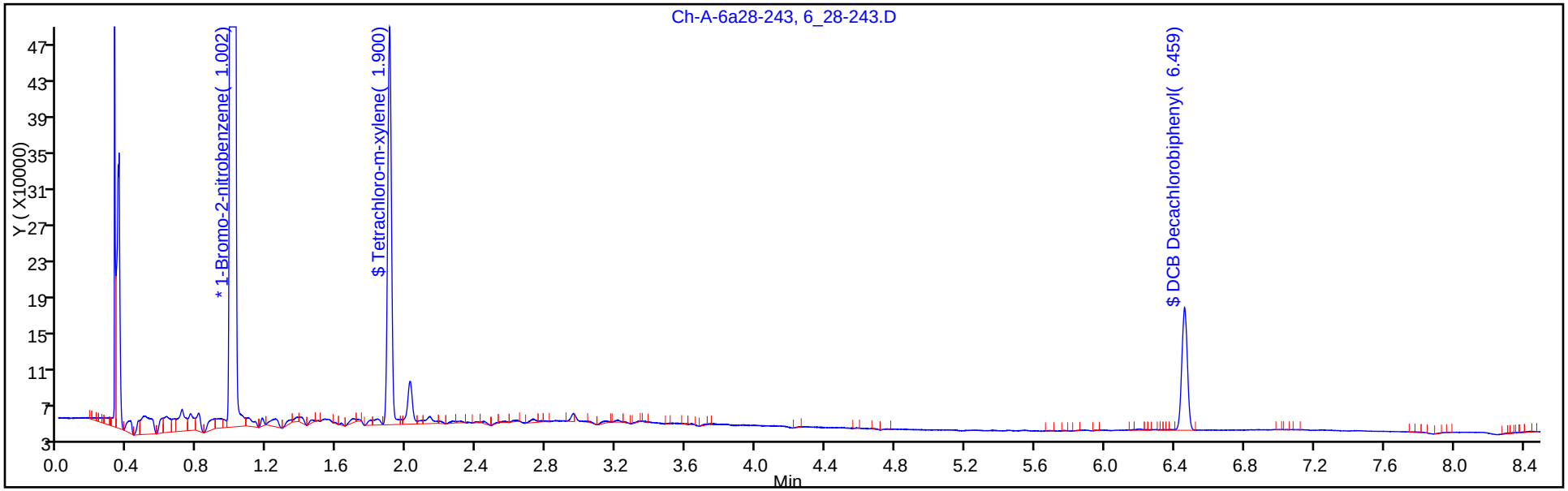
Report Date: 25-Jul-2017 10:54:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

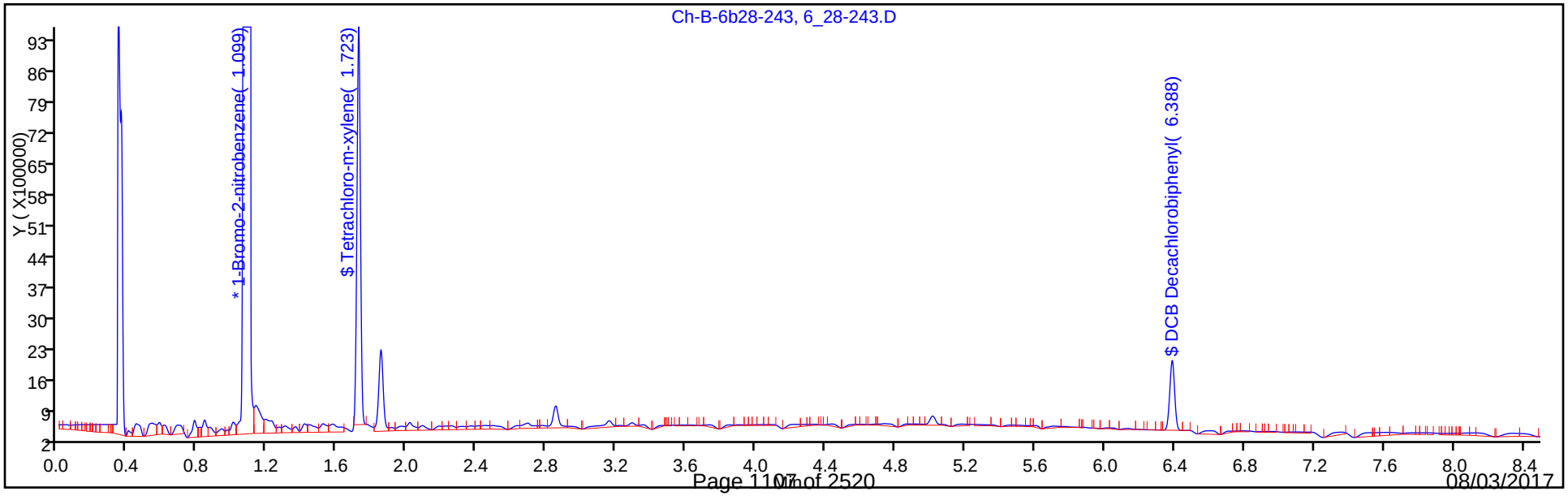
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-243.D

Injection Date:	24-Jul-2017 22:44:39	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	MB 480-368288/1-A			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368288/1-A

Matrix: Solid | Lab File ID: 6_28-243.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.88(g) | Date Analyzed: 07/24/2017 22:44

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	159	X	60-154
2051-24-3	DCB Decachlorobiphenyl	133		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-243.D
Lims ID: MB 480-368288/1-A
Client ID:
Sample Type: MB
Inject. Date: 24-Jul-2017 22:44:39 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:54:10 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:54:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.002	0.999	0.003	14430476	0.5000	0.5000	
2	1.099	1.103	-0.003	199660854	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.900	1.894	0.006	654879	0.0200	0.0264	
2	1.723	1.725	-0.003	12522214	0.0200	0.0317	M
						RPD = 18.48	
$ 15 DCB Decachlorobiphenyl							
1	6.459	6.453	0.007	297723	0.0200	0.0233	
2	6.388	6.387	0.001	3087689	0.0200	0.0266	
						RPD = 13.31	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

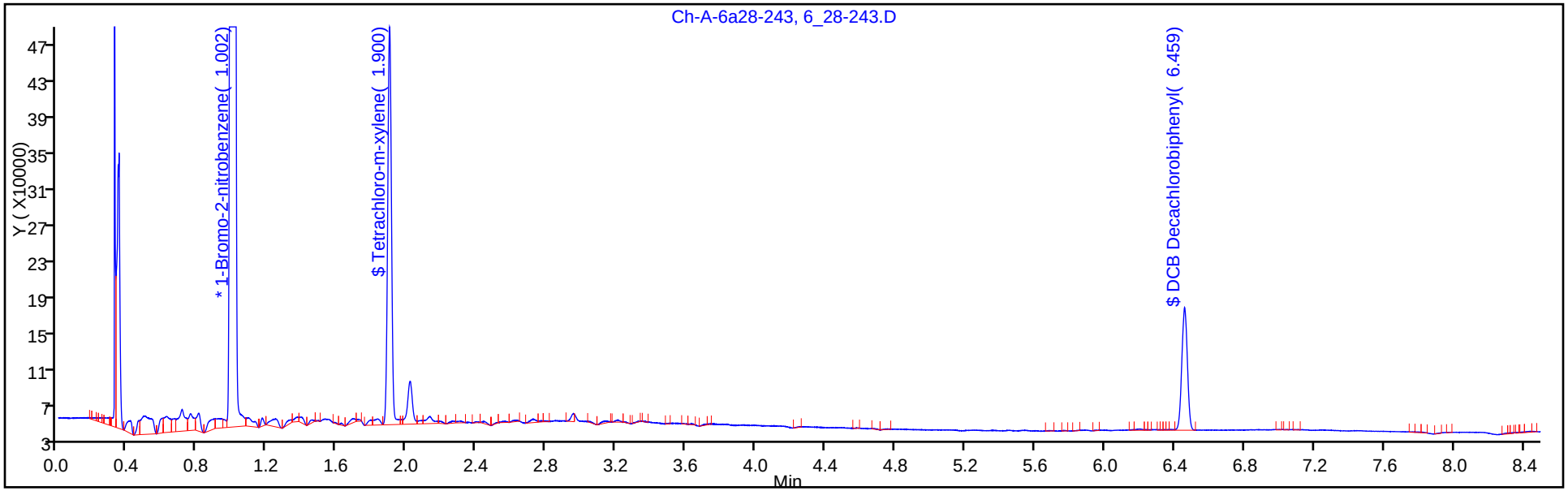
Report Date: 25-Jul-2017 10:54:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

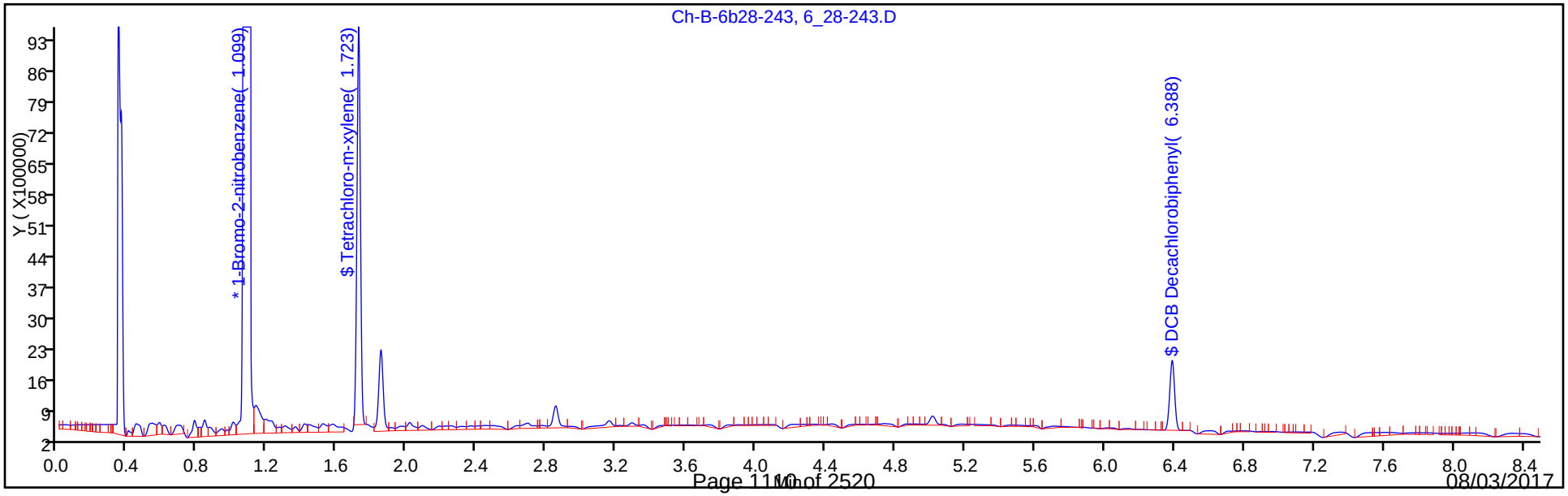
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-243.D

Injection Date:	24-Jul-2017 22:44:39	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	MB 480-368288/1-A			Worklist Smp#:	15
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

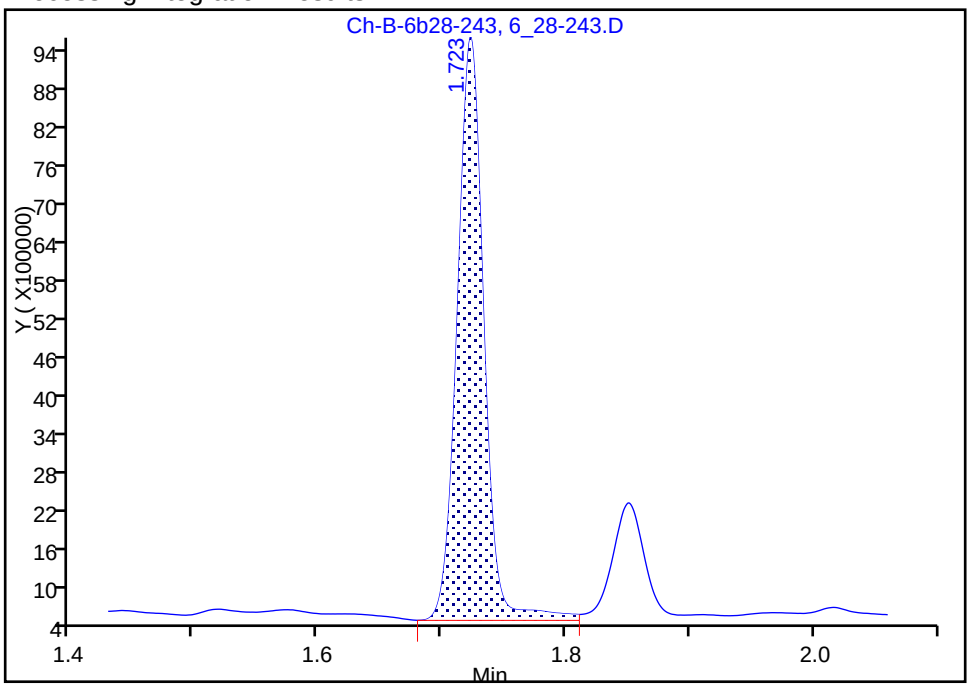
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-243.D
Injection Date: 24-Jul-2017 22:44:39 Instrument ID: HP6890-6
Lims ID: MB 480-368288/1-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

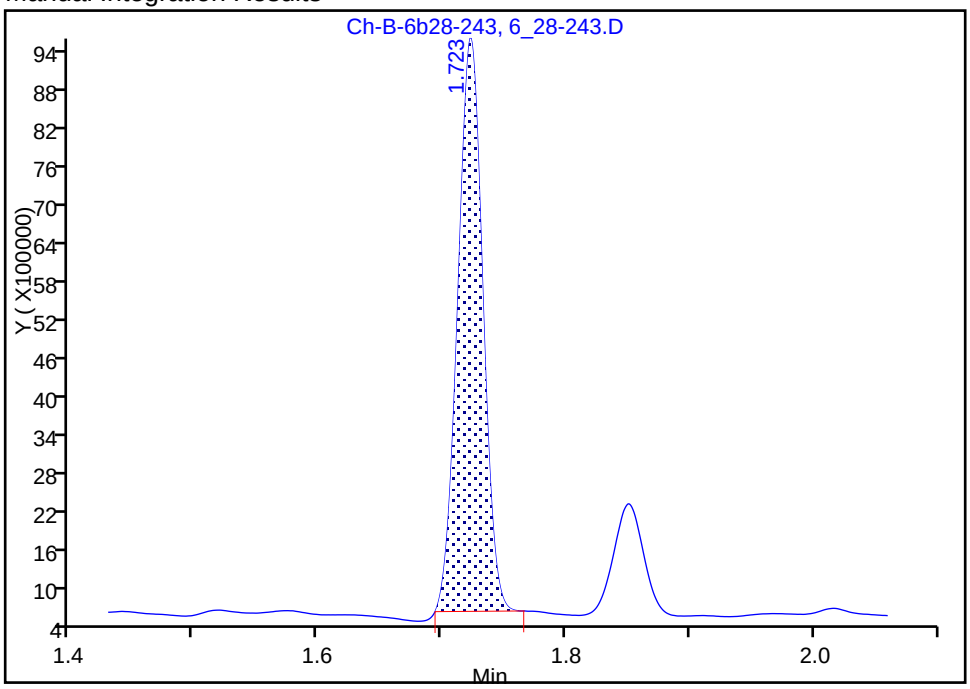
Processing Integration Results

RT: 1.72
Area: 13563679
Amount: 0.034384
Amount Units: ng/uL



Manual Integration Results

RT: 1.72
Area: 12522214
Amount: 0.031718
Amount Units: ng/uL



Reviewer: owenj, 25-Jul-2017 10:54:07
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368612/1-A

Matrix: Solid | Lab File ID: 7_36-226.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.24(g) | Date Analyzed: 07/26/2017 13:35

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	159	X	60-154
2051-24-3	DCB Decachlorobiphenyl	157		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-226.D
Lims ID: MB 480-368612/1-A
Client ID:
Sample Type: MB
Inject. Date: 26-Jul-2017 13:35:15 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:31 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:31

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.001	13475209	0.5000	0.5000	
2	0.943	0.941	0.001	37396257	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.965	1.966	-0.001	1037957	0.0200	0.0317	
2	1.493	1.491	0.002	2264026	0.0200	0.0272	
						RPD = 15.51	
3 1260 Res 3							
1	5.556	5.538	0.018	1461		NC	
2	4.737	4.740	-0.003	8226		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.886	6.907	-0.021	589389	0.0200	0.0314	
2	6.055	6.056	-0.001	1455672	0.0200	0.0270	
						RPD = 15.00	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

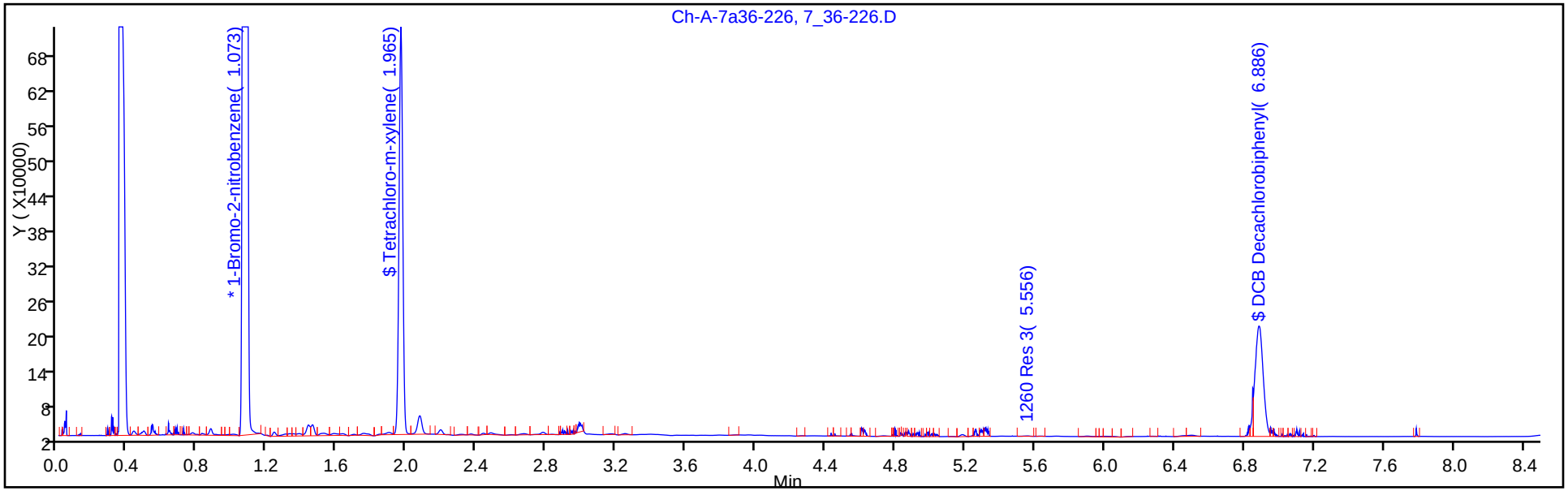
Report Date: 26-Jul-2017 15:17:31 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

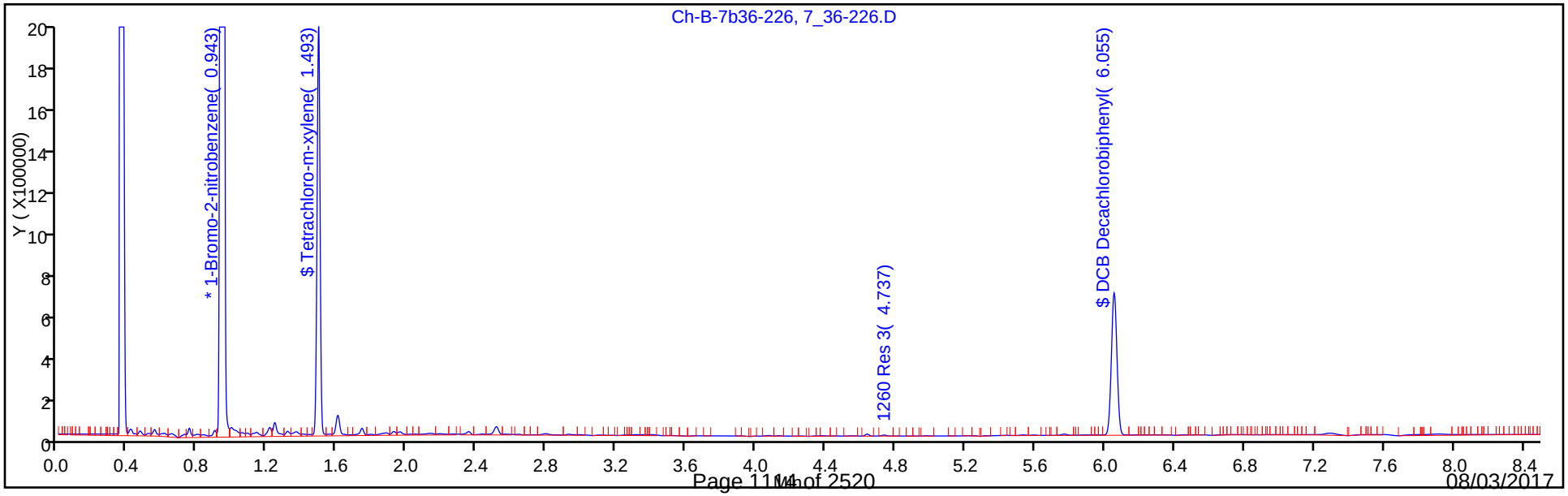
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-226.D

Injection Date:	26-Jul-2017 13:35:15	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	MB 480-368612/1-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368612/1-A

Matrix: Solid | Lab File ID: 7_36-226.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.24(g) | Date Analyzed: 07/26/2017 13:35

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.044
11104-28-2	PCB-1221	ND		0.22	0.044
11141-16-5	PCB-1232	ND		0.22	0.044
53469-21-9	PCB-1242	ND		0.22	0.044
12672-29-6	PCB-1248	ND		0.22	0.044
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	136		60-154
2051-24-3	DCB Decachlorobiphenyl	135		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-226.D
Lims ID: MB 480-368612/1-A
Client ID:
Sample Type: MB
Inject. Date: 26-Jul-2017 13:35:15 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:31 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:31

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.001	13475209	0.5000	0.5000	
2	0.943	0.941	0.001	37396257	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.965	1.966	-0.001	1037957	0.0200	0.0317	
2	1.493	1.491	0.002	2264026	0.0200	0.0272	
						RPD = 15.51	
3 1260 Res 3							
1	5.556	5.538	0.018	1461		NC	
2	4.737	4.740	-0.003	8226		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.886	6.907	-0.021	589389	0.0200	0.0314	
2	6.055	6.056	-0.001	1455672	0.0200	0.0270	
						RPD = 15.00	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

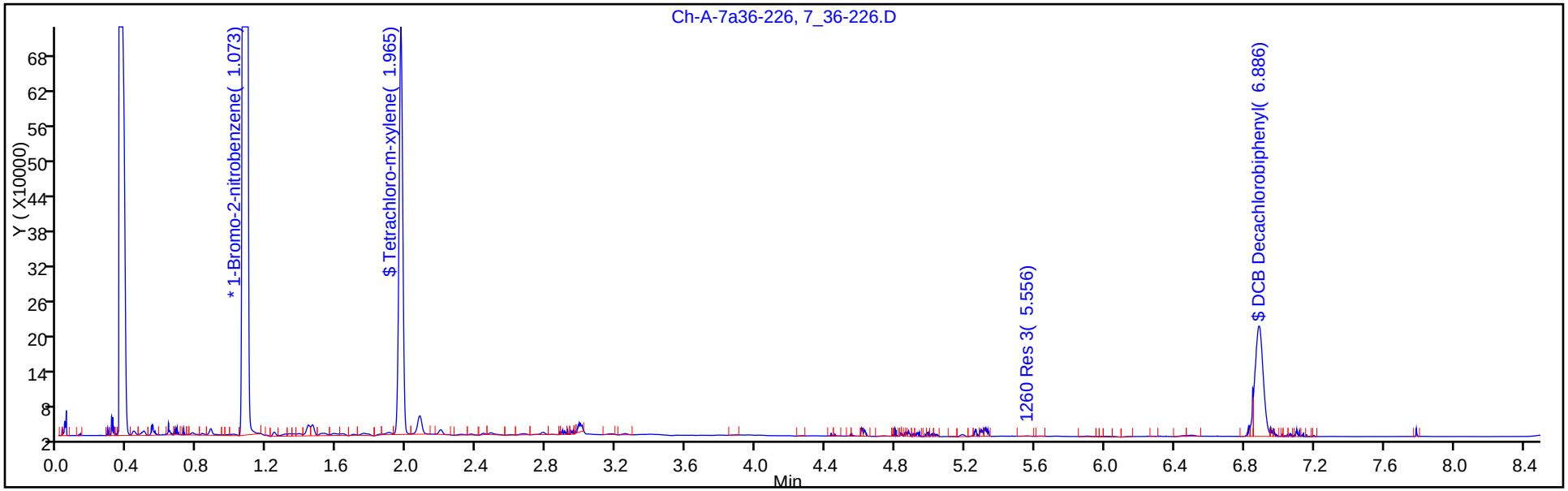
Report Date: 26-Jul-2017 15:17:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

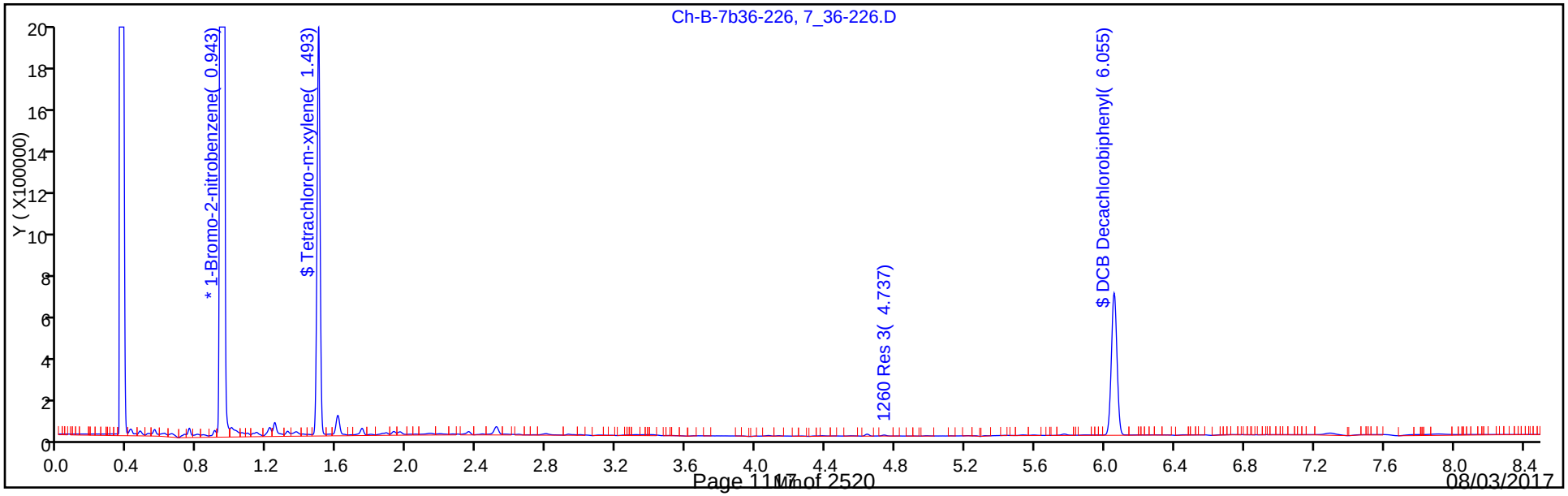
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-226.D

Injection Date:	26-Jul-2017 13:35:15	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	MB 480-368612/1-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368288/2-A

Matrix: Solid | Lab File ID: 6_28-244.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.67(g) | Date Analyzed: 07/24/2017 23:00

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.96		0.19	0.037
11096-82-5	PCB-1260	2.85		0.19	0.088

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	153		60-154
2051-24-3	DCB Decachlorobiphenyl	154		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-244.D
Lims ID: LCS 480-368288/2-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Jul-2017 23:00:26 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:55:16 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:55:16

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.998	0.999	-0.001	12667478	0.5000	0.5000	
2	1.099	1.103	-0.003	187333946	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.893	1.894	-0.001	669656	0.0200	0.0307	M
2	1.724	1.725	-0.001	10904522	0.0200	0.0294	M
						RPD = 4.26	
6 PCB-1016							M
1	2.487	2.488	-0.001	504500	0.5000	0.7613	
1	2.635	2.637	-0.002	339279	0.5000	0.7926	
1	2.838	2.836	0.002	1276088	0.5000	0.7866	
1	2.922	2.923	-0.001	473209	0.5000	0.8172	
1	2.984	2.985	-0.001	315553	0.5000	0.7997	
		Average of Peak Amounts =				0.7915	
2	2.493	2.494	-0.002	9917402	0.5000	0.9326	M
2	2.813	2.814	-0.001	22540703	0.5000	0.8747	M
2	2.933	2.935	-0.002	7962827	0.5000	0.8818	M
2	3.076	3.075	0.001	4246905	0.5000	0.8461	M
2	3.316	3.317	-0.001	9124283	0.5000	0.8934	M
		Average of Peak Amounts =				0.8857	
						RPD = 11.24	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.686	4.689	-0.003	959154	0.5000	0.7813	
1	4.815	4.816	-0.001	524973	0.5000	0.6941	
1	5.006	5.005	0.001	473312	0.5000	0.8153	
1	5.203	5.204	-0.002	1237725	0.5000	0.7442	
1	5.441	5.442	-0.001	552857	0.5000	0.7642	
		Average of Peak Amounts =				0.7598	
2	4.694	4.695	-0.001	8928677	0.5000	0.9123	M
2	4.738	4.741	-0.003	8644674	0.5000	1.22	M
2	5.003	5.006	-0.003	8689093	0.5000	1.23	M
2	5.140	5.142	-0.002	18118899	0.5000	0.9839	M
2	5.475	5.478	-0.003	9689069	0.5000	1.00	M
		Average of Peak Amounts =				1.07	
						RPD = 33.74	
$ 15 DCB Decachlorobiphenyl							M
1	6.449	6.453	-0.003	345646	0.0200	0.0308	
2	6.384	6.387	-0.003	3501618	0.0200	0.0323	M
						RPD = 4.73	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

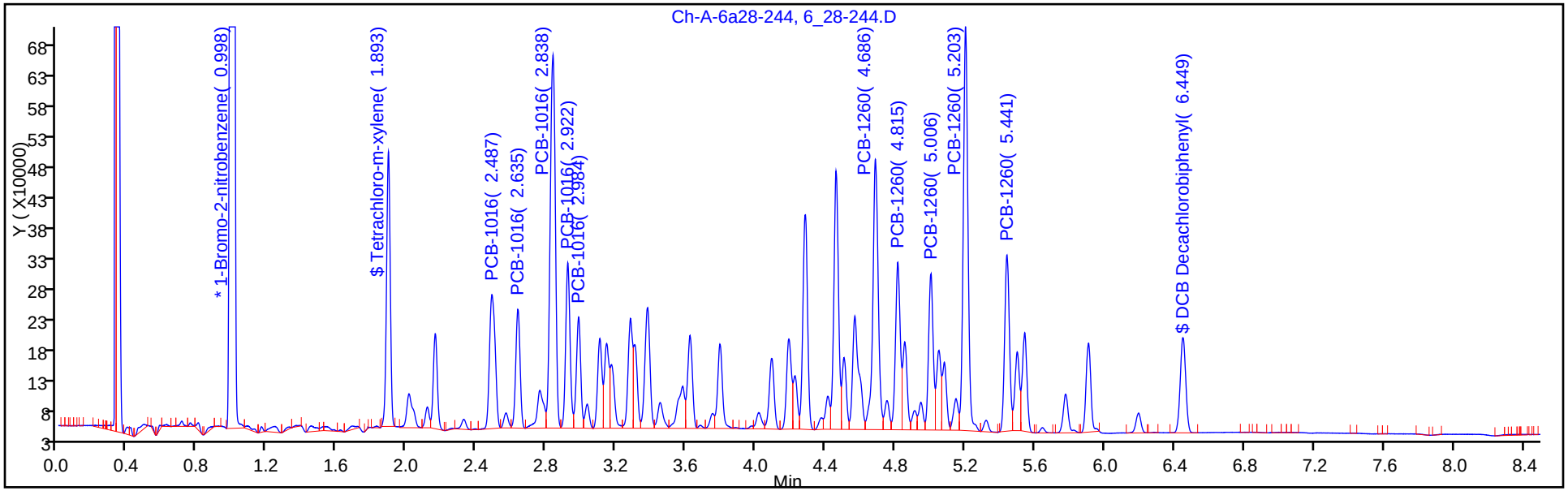
Report Date: 25-Jul-2017 10:55:16 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

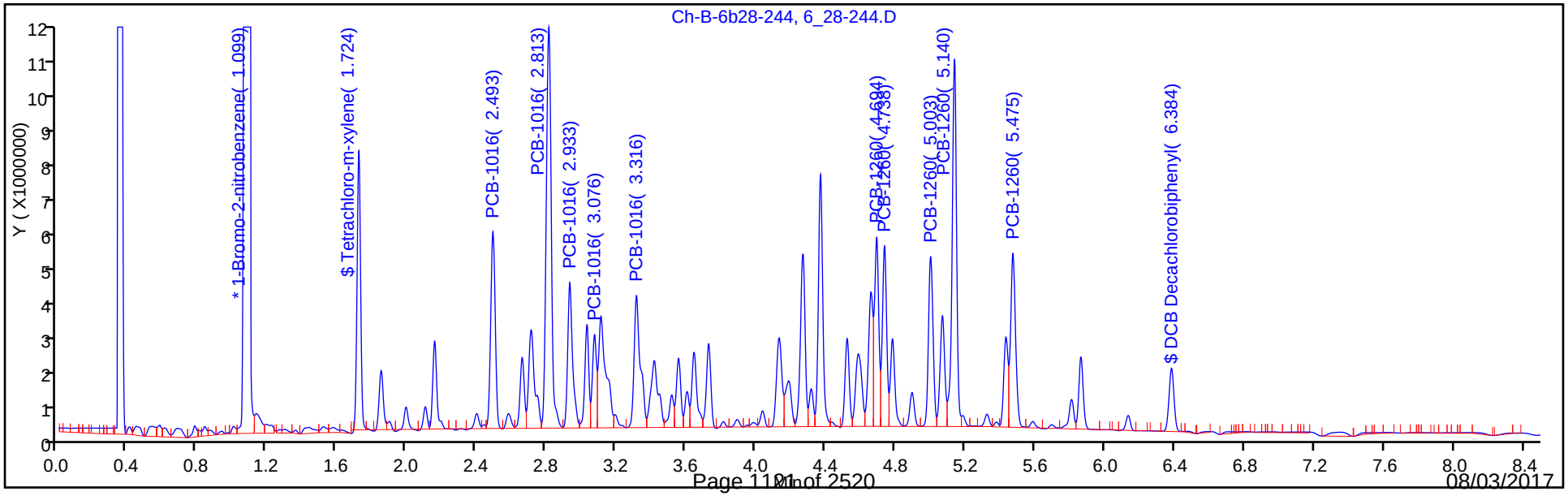
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-244.D

Injection Date:	24-Jul-2017 23:00:26	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368288/2-A			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

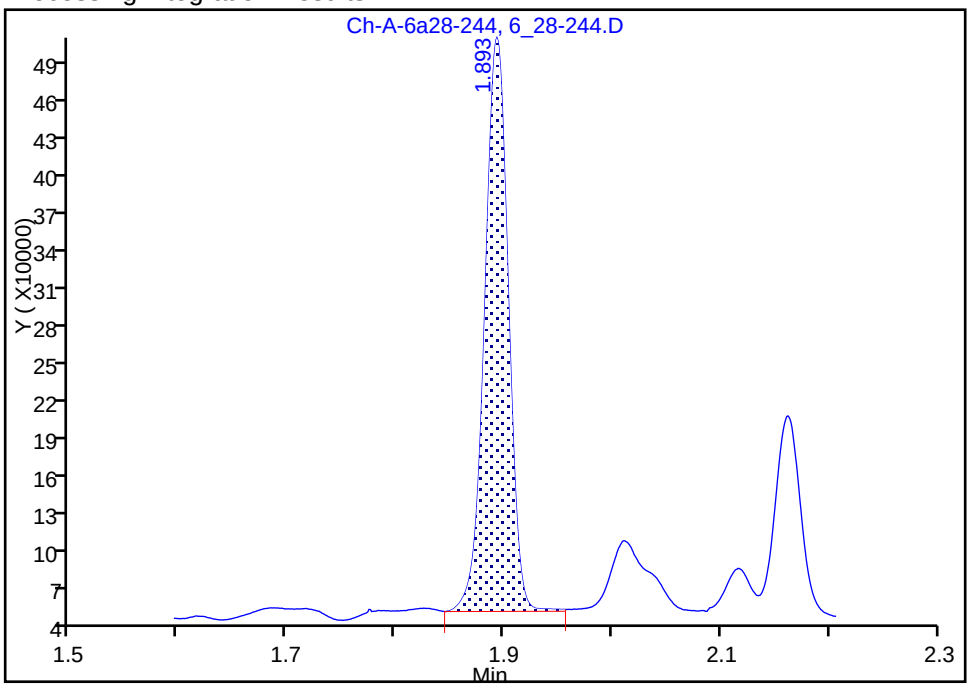
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-244.D
Injection Date: 24-Jul-2017 23:00:26 Instrument ID: HP6890-6
Lims ID: LCS 480-368288/2-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

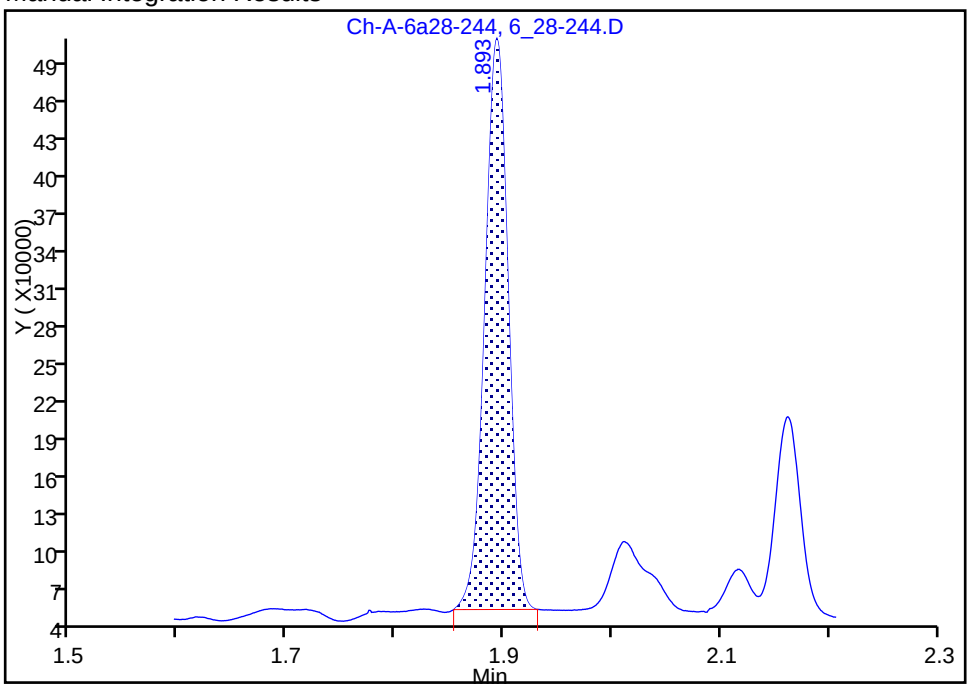
Processing Integration Results

RT: 1.89
Area: 682896
Amount: 0.031299
Amount Units: ng/uL



Manual Integration Results

RT: 1.89
Area: 669656
Amount: 0.030693
Amount Units: ng/uL



Reviewer: owenj, 25-Jul-2017 10:54:59
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368288/2-A

Matrix: Solid | Lab File ID: 6_28-244.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.67(g) | Date Analyzed: 07/24/2017 23:00

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	147		60-154
2051-24-3	DCB Decachlorobiphenyl	162		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-244.D
Lims ID: LCS 480-368288/2-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Jul-2017 23:00:26 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:55:16 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:55:16

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.998	0.999	-0.001	12667478	0.5000	0.5000	
2	1.099	1.103	-0.003	187333946	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.893	1.894	-0.001	669656	0.0200	0.0307	M
2	1.724	1.725	-0.001	10904522	0.0200	0.0294	M
						RPD = 4.26	
6 PCB-1016							M
1	2.487	2.488	-0.001	504500	0.5000	0.7613	
1	2.635	2.637	-0.002	339279	0.5000	0.7926	
1	2.838	2.836	0.002	1276088	0.5000	0.7866	
1	2.922	2.923	-0.001	473209	0.5000	0.8172	
1	2.984	2.985	-0.001	315553	0.5000	0.7997	
		Average of Peak Amounts =				0.7915	
2	2.493	2.494	-0.002	9917402	0.5000	0.9326	M
2	2.813	2.814	-0.001	22540703	0.5000	0.8747	M
2	2.933	2.935	-0.002	7962827	0.5000	0.8818	M
2	3.076	3.075	0.001	4246905	0.5000	0.8461	M
2	3.316	3.317	-0.001	9124283	0.5000	0.8934	M
		Average of Peak Amounts =				0.8857	
						RPD = 11.24	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.686	4.689	-0.003	959154	0.5000	0.7813	
1	4.815	4.816	-0.001	524973	0.5000	0.6941	
1	5.006	5.005	0.001	473312	0.5000	0.8153	
1	5.203	5.204	-0.002	1237725	0.5000	0.7442	
1	5.441	5.442	-0.001	552857	0.5000	0.7642	
		Average of Peak Amounts =				0.7598	
2	4.694	4.695	-0.001	8928677	0.5000	0.9123	M
2	4.738	4.741	-0.003	8644674	0.5000	1.22	M
2	5.003	5.006	-0.003	8689093	0.5000	1.23	M
2	5.140	5.142	-0.002	18118899	0.5000	0.9839	M
2	5.475	5.478	-0.003	9689069	0.5000	1.00	M
		Average of Peak Amounts =				1.07	
						RPD = 33.74	
$ 15 DCB Decachlorobiphenyl							M
1	6.449	6.453	-0.003	345646	0.0200	0.0308	
2	6.384	6.387	-0.003	3501618	0.0200	0.0323	M
						RPD = 4.73	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

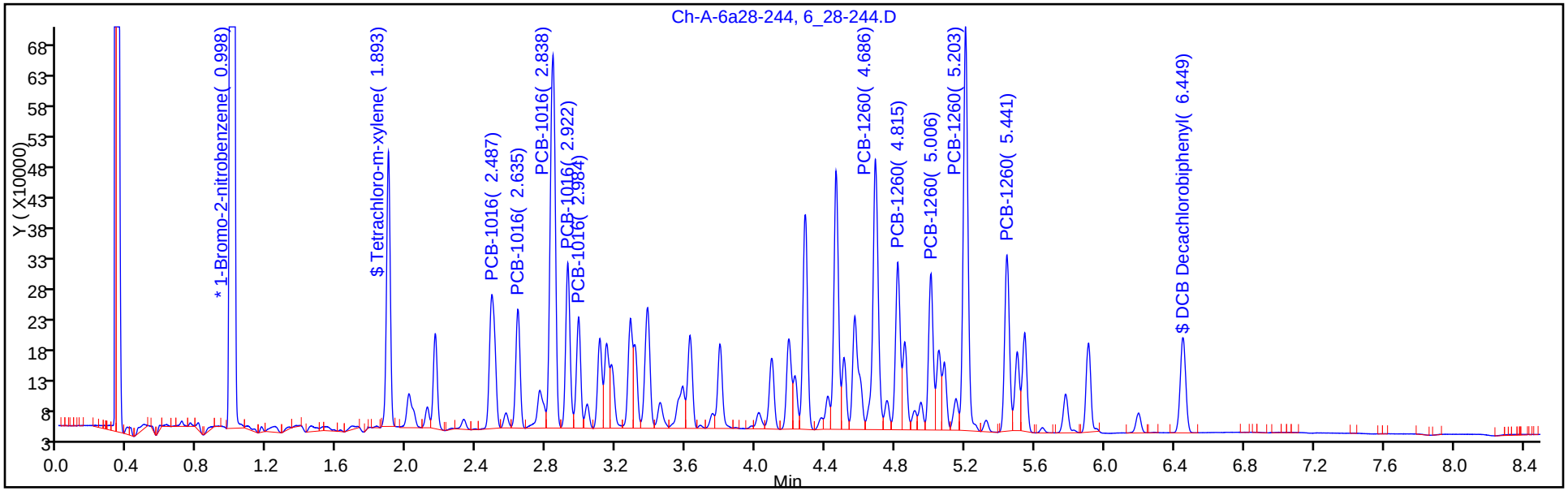
Report Date: 25-Jul-2017 10:55:17 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

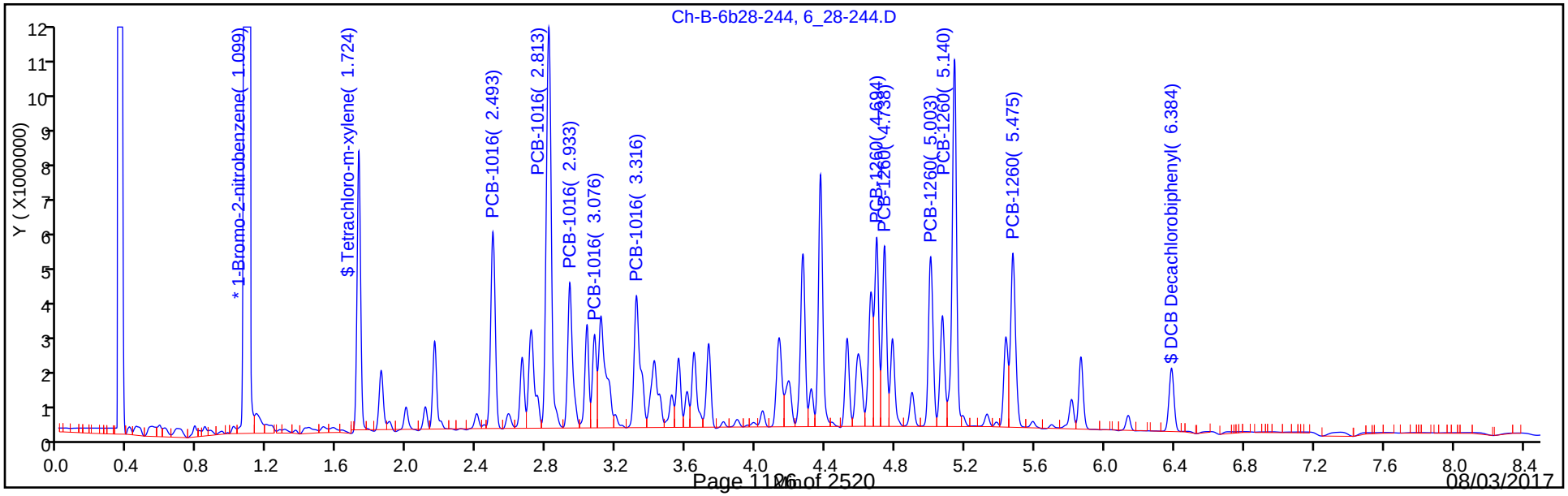
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-244.D

Injection Date:	24-Jul-2017 23:00:26	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368288/2-A			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



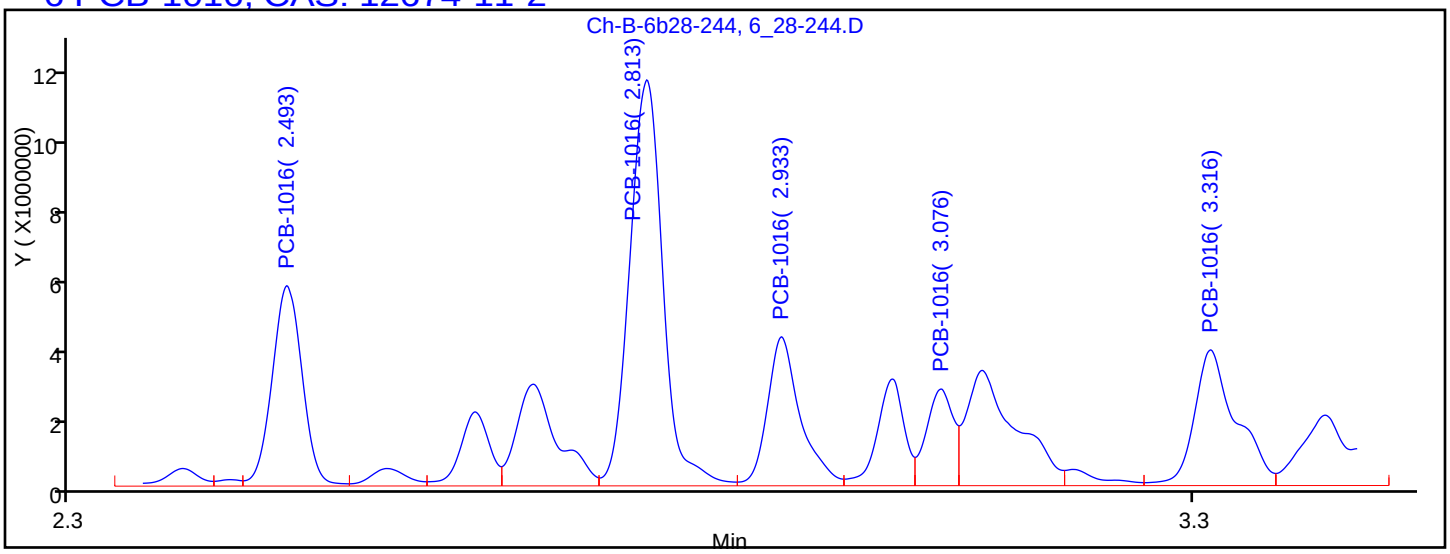
Report Date: 25-Jul-2017 10:55:17 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-244.D

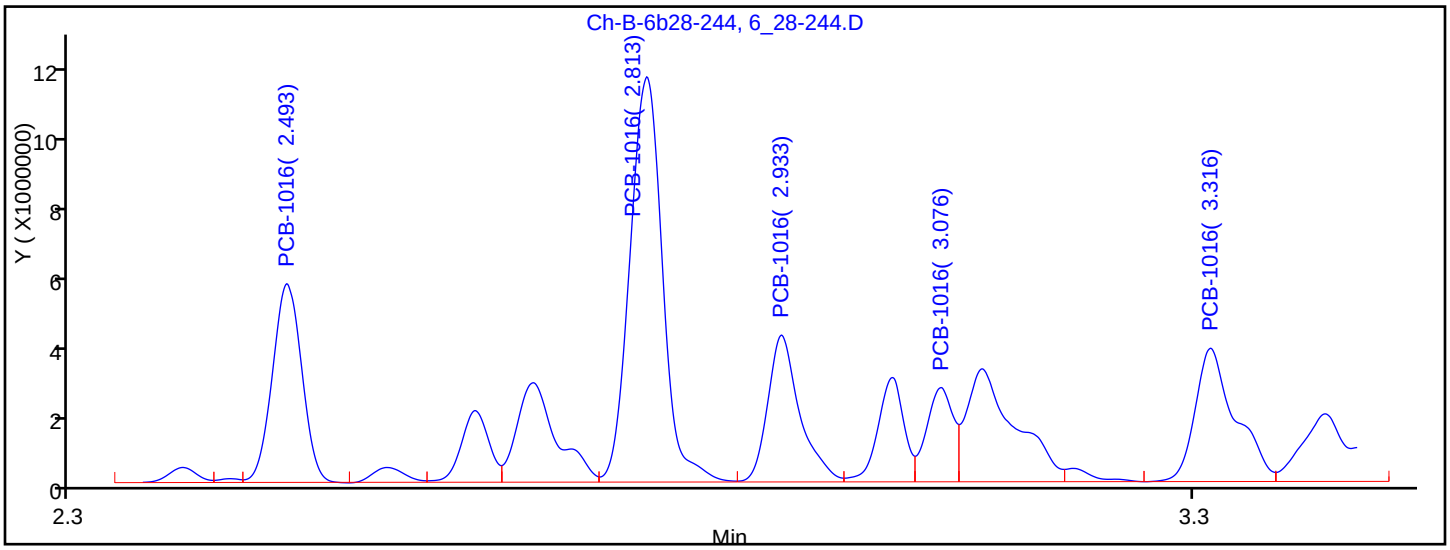
Injection Date:	24-Jul-2017 23:00:26	Instrument ID:	HP6890-6
Lims ID:	LCS 480-368288/2-A		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL
Column:		Detector	Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.493	Response = 10337098
2.813	Response = 23116786
2.933	Response = 8413686
3.076	Response = 4435050
3.316	Response = 9718915



Manual Integration Results

2.493	Response = 9917402	M
2.813	Response = 22540703	M
2.933	Response = 7962827	M
3.076	Response = 4246905	M
3.316	Response = 9124283	M

Reviewer: owenj, 25-Jul-2017 10:54:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 25-Jul-2017 10:55:17 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-244.D

Injection Date: 24-Jul-2017 23:00:26 Instrument ID: HP6890-6

Lims ID: LCS 480-368288/2-A

Client ID:

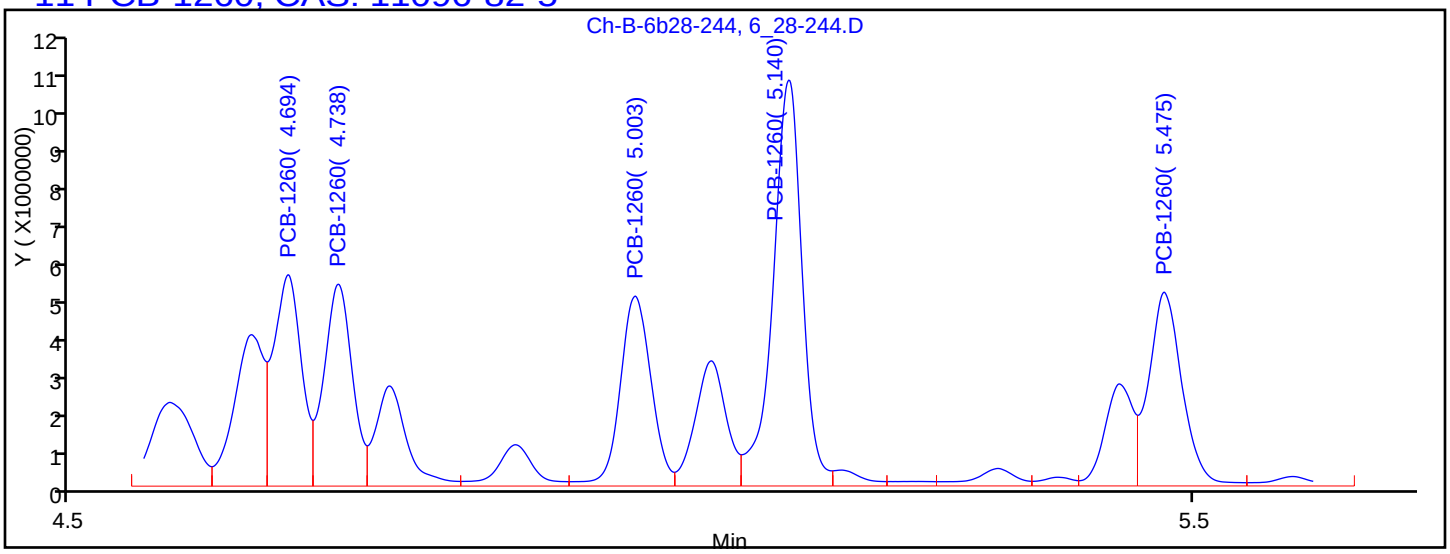
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

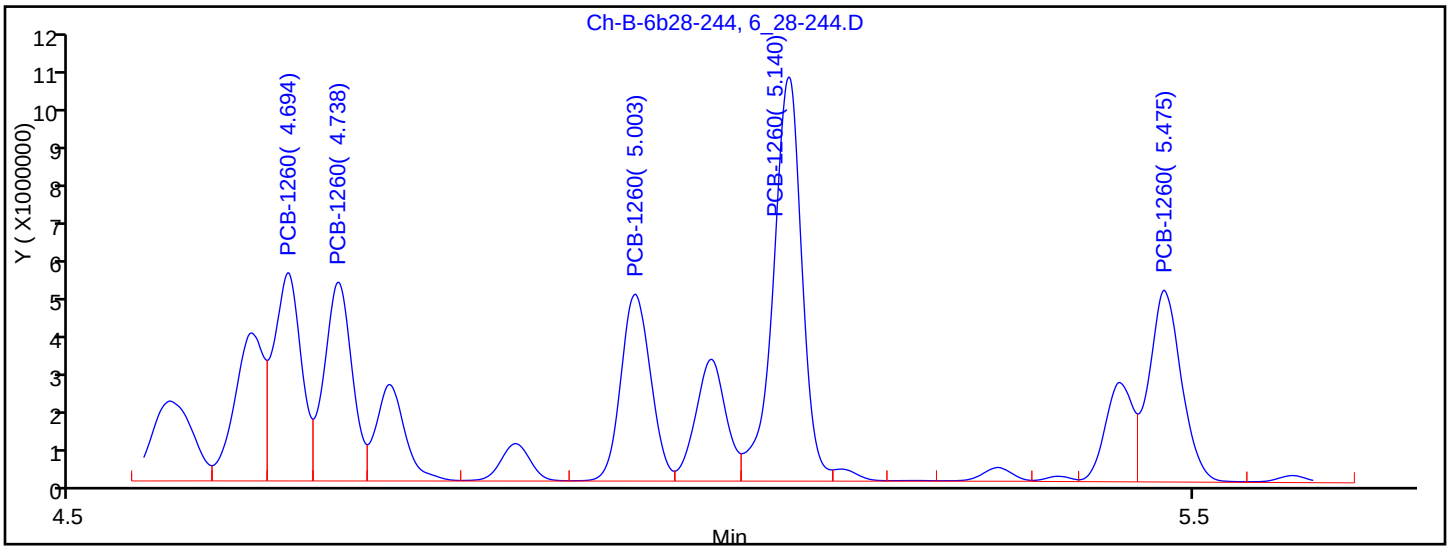
Column: Detector Ch-B-7b136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.694	Response = 9189421
4.738	Response = 8951110
5.003	Response = 9260673
5.140	Response = 18601154
5.475	Response = 10113890



Manual Integration Results

4.694	Response = 8928677	M
4.738	Response = 8644674	M
5.003	Response = 8689093	M
5.140	Response = 18118899	M
5.475	Response = 9689069	M

Reviewer: owenj, 25-Jul-2017 10:54:23

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

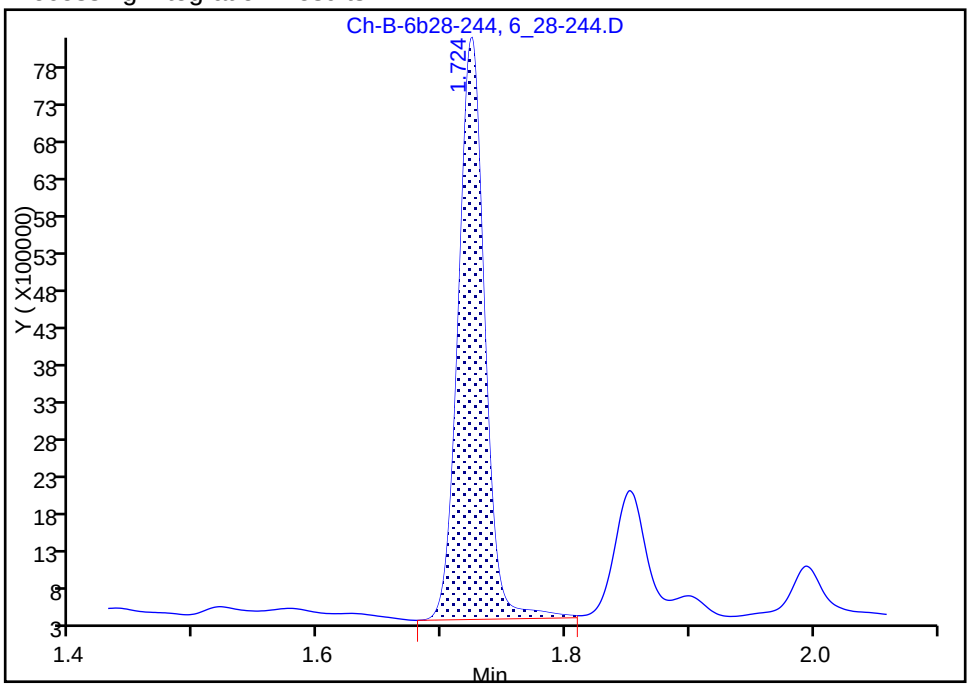
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-244.D
Injection Date: 24-Jul-2017 23:00:26 Instrument ID: HP6890-6
Lims ID: LCS 480-368288/2-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

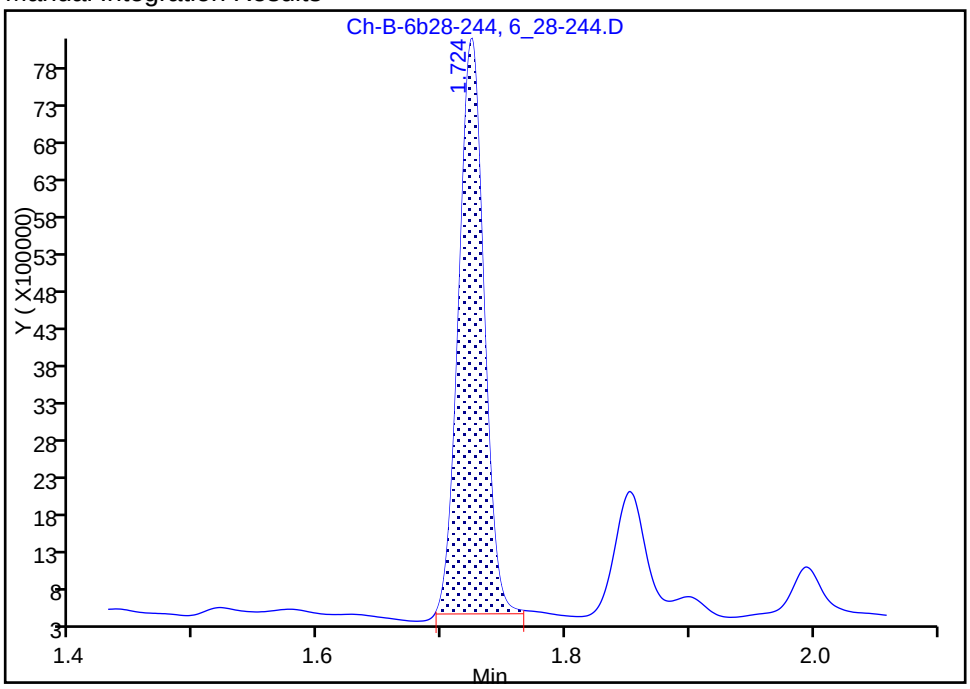
Processing Integration Results

RT: 1.72
Area: 11476467
Amount: 0.030974
Amount Units: ng/uL



Manual Integration Results

RT: 1.72
Area: 10904522
Amount: 0.029414
Amount Units: ng/uL



Reviewer: owenj, 25-Jul-2017 10:54:33
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

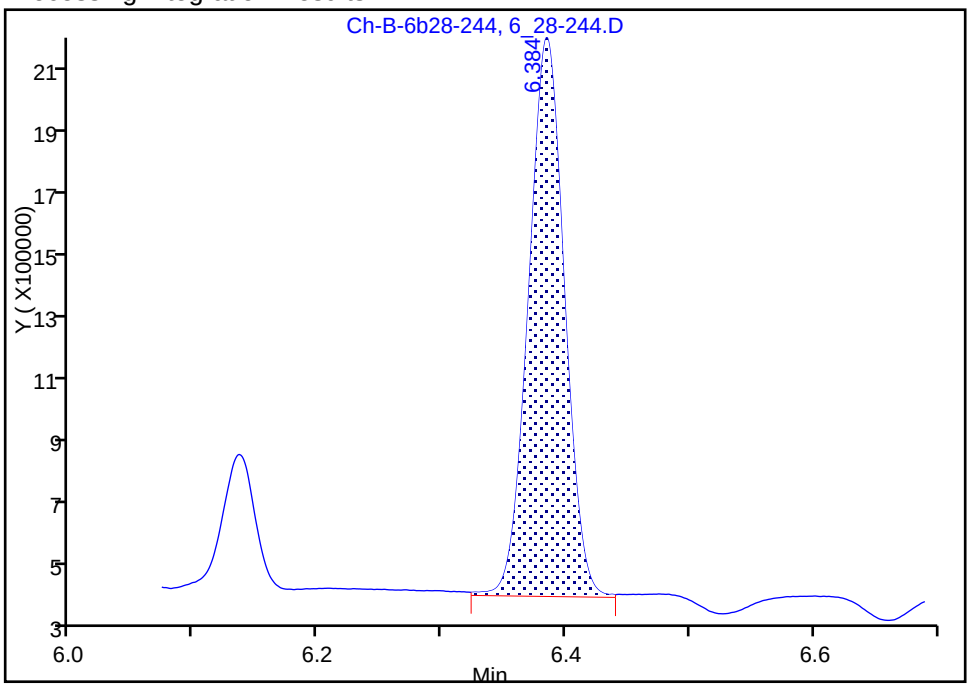
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-244.D
Injection Date: 24-Jul-2017 23:00:26 Instrument ID: HP6890-6
Lims ID: LCS 480-368288/2-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

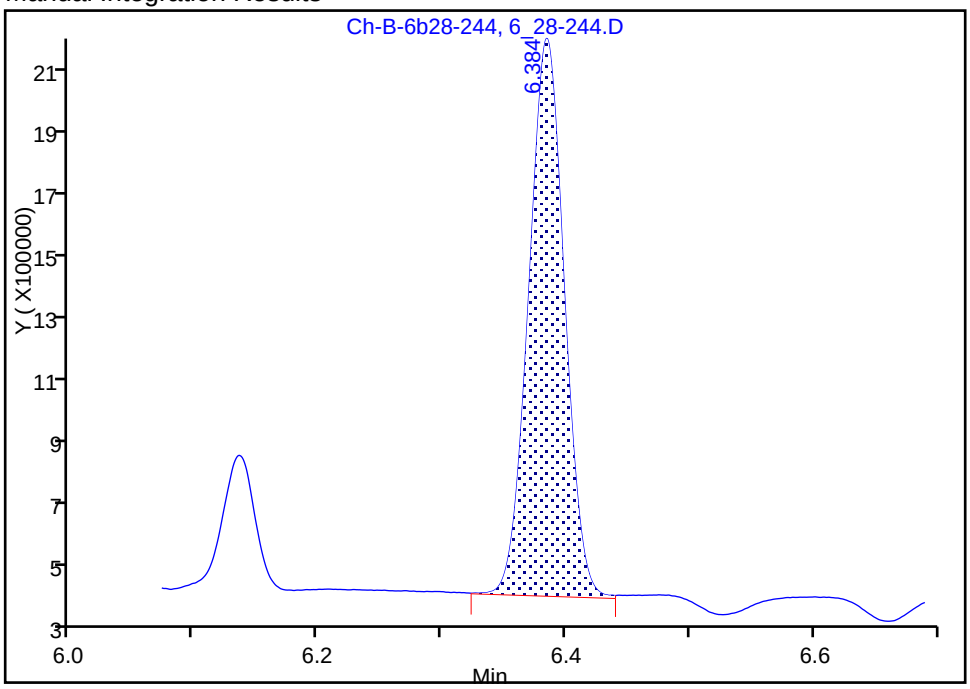
Processing Integration Results

RT: 6.38
Area: 3526727
Amount: 0.032554
Amount Units: ng/uL



Manual Integration Results

RT: 6.38
Area: 3501618
Amount: 0.032317
Amount Units: ng/uL



Reviewer: owenj, 25-Jul-2017 10:54:23
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368612/2-A

Matrix: Solid | Lab File ID: 7_36-227.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.21(g) | Date Analyzed: 07/26/2017 13:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	170	X	60-154
2051-24-3	DCB Decachlorobiphenyl	186	X	65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D
Lims ID: LCS 480-368612/2-A
Client ID:
Sample Type: LCS
Inject. Date: 26-Jul-2017 13:51:27 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:53 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.001	12384866	0.5000	0.5000	
2	0.942	0.941	0.001	34904387	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.965	1.966	-0.001	1022375	0.0200	0.0340	M
2	1.493	1.491	0.001	2115918	0.0200	0.0272	M
						RPD = 22.34	
9 PCB-1016							M
1	2.544	2.544	0.000	737890	0.5000	0.7952	M
1	2.693	2.691	0.002	465759	0.5000	0.8172	M
1	2.898	2.893	0.005	1769133	0.5000	0.8908	M
1	2.981	2.980	0.001	668926	0.5000	0.9038	M
1	3.043	3.041	0.002	454909	0.5000	0.8865	M
		Average of Peak Amounts =				0.8587	
2	2.163	2.163	0.000	1809213	0.5000	0.7722	M
2	2.465	2.466	-0.001	3777434	0.5000	0.7654	M
2	2.574	2.573	0.001	1471314	0.5000	0.7884	M
2	2.663	2.663	0.000	971029	0.5000	0.7730	M
2	2.937	2.936	0.001	1688393	0.5000	0.7838	M
		Average of Peak Amounts =				0.7766	
						RPD = 10.05	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.763	4.764	-0.001	1419510	0.5000	0.9155	M
1	4.893	4.893	0.000	798422	0.5000	0.9169	M
1	5.084	5.083	0.002	731060	0.5000	0.8888	M
1	5.290	5.288	0.002	1887703	0.5000	0.9123	M
1	5.531	5.532	-0.001	850748	0.5000	0.8691	M
		Average of Peak Amounts =				0.9005	
2	4.295	4.295	0.000	1900184	0.5000	0.7612	M
2	4.349	4.349	0.000	1591766	0.5000	0.6975	M
2	4.671	4.672	-0.001	1241398	0.5000	0.6963	M
2	4.748	4.748	0.000	4027500	0.5000	0.7024	M
2	5.076	5.074	0.002	2498410	0.5000	0.7204	M
		Average of Peak Amounts =				0.7156	
						RPD = 22.89	
$ 15 DCB Decachlorobiphenyl							
1	6.884	6.907	-0.023	640338	0.0200	0.0372	
2	6.056	6.056	0.000	1446876	0.0200	0.0288	
						RPD = 25.57	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

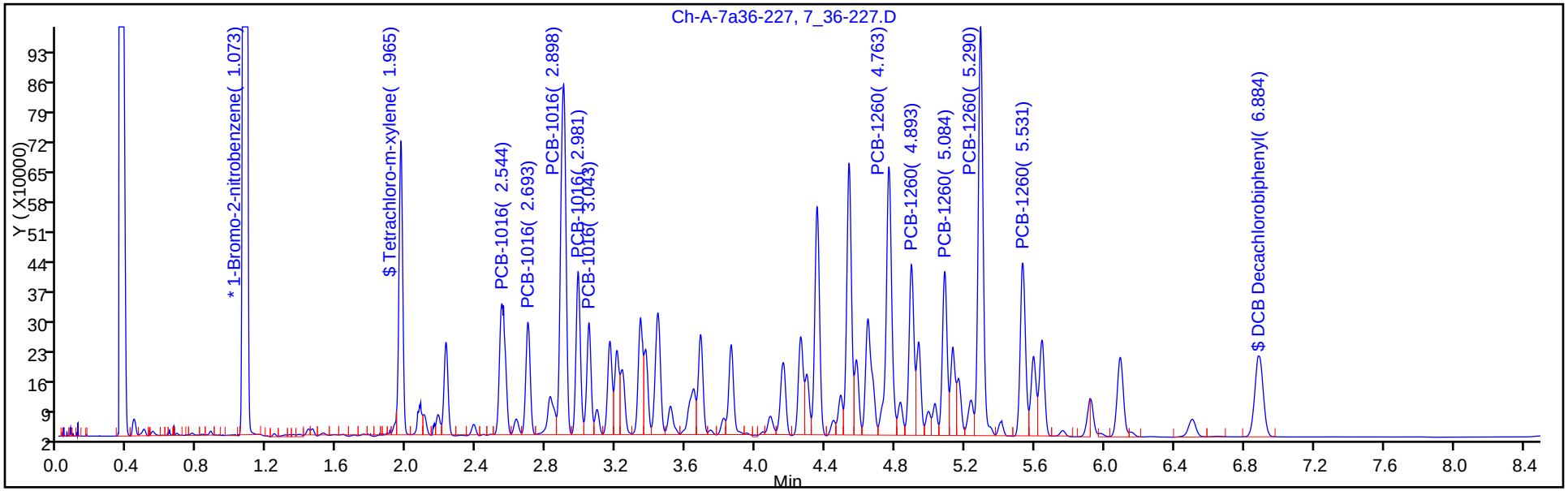
Report Date: 26-Jul-2017 15:17:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

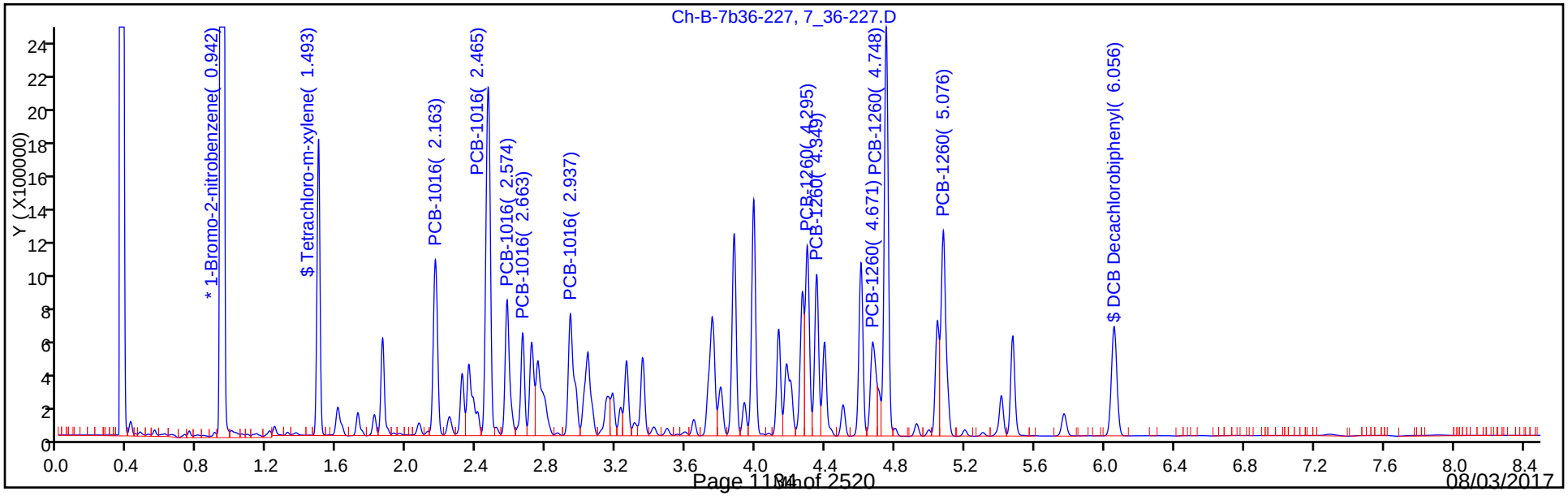
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date:	26-Jul-2017 13:51:27	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368612/2-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



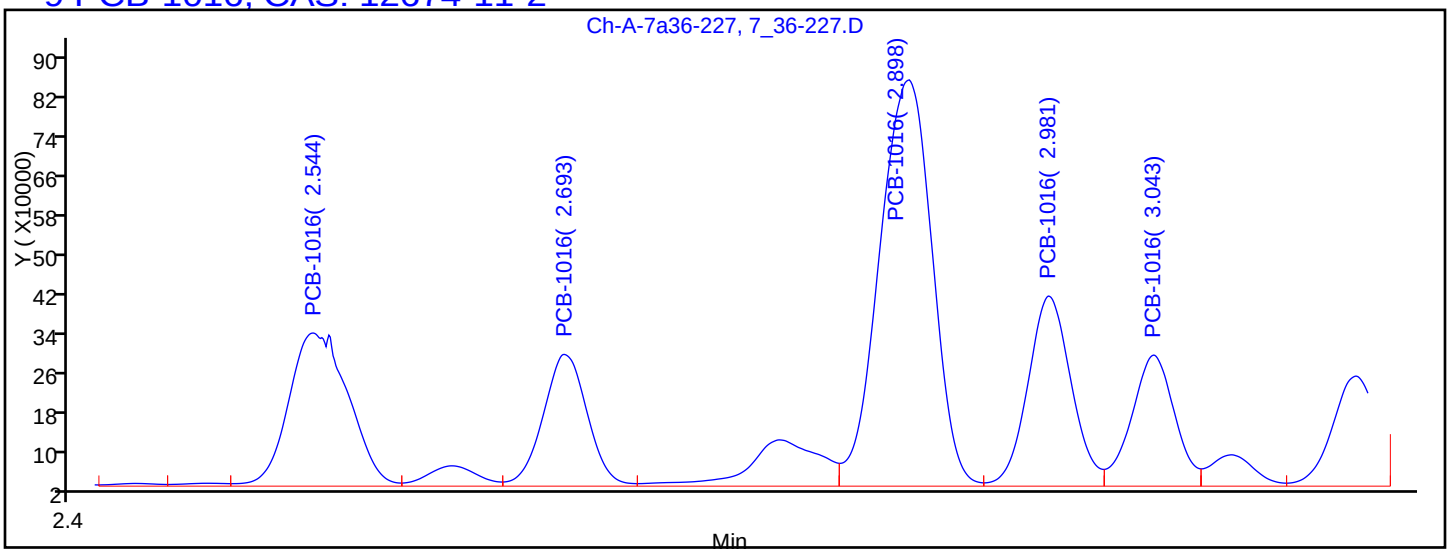
Report Date: 26-Jul-2017 15:17:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

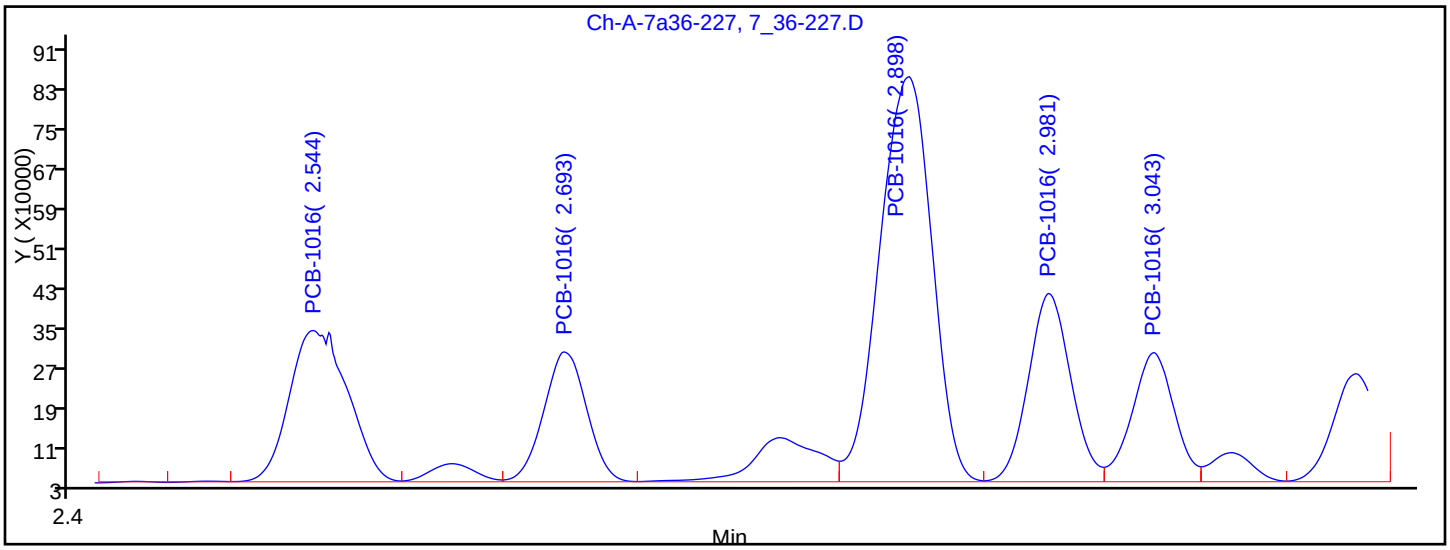
Injection Date:	26-Jul-2017 13:51:27	Instrument ID:	HP6890-7		
Lims ID:	LCS 480-368612/2-A				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.544	Response = 765633
2.693	Response = 487803
2.898	Response = 1793090
2.981	Response = 689031
3.043	Response = 471105



Manual Integration Results

2.544	Response = 737890	M
2.693	Response = 465759	M
2.898	Response = 1769133	M
2.981	Response = 668926	M
3.043	Response = 454909	M

Reviewer: owenj, 26-Jul-2017 14:19:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 26-Jul-2017 15:17:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7

Lims ID: LCS 480-368612/2-A

Client ID:

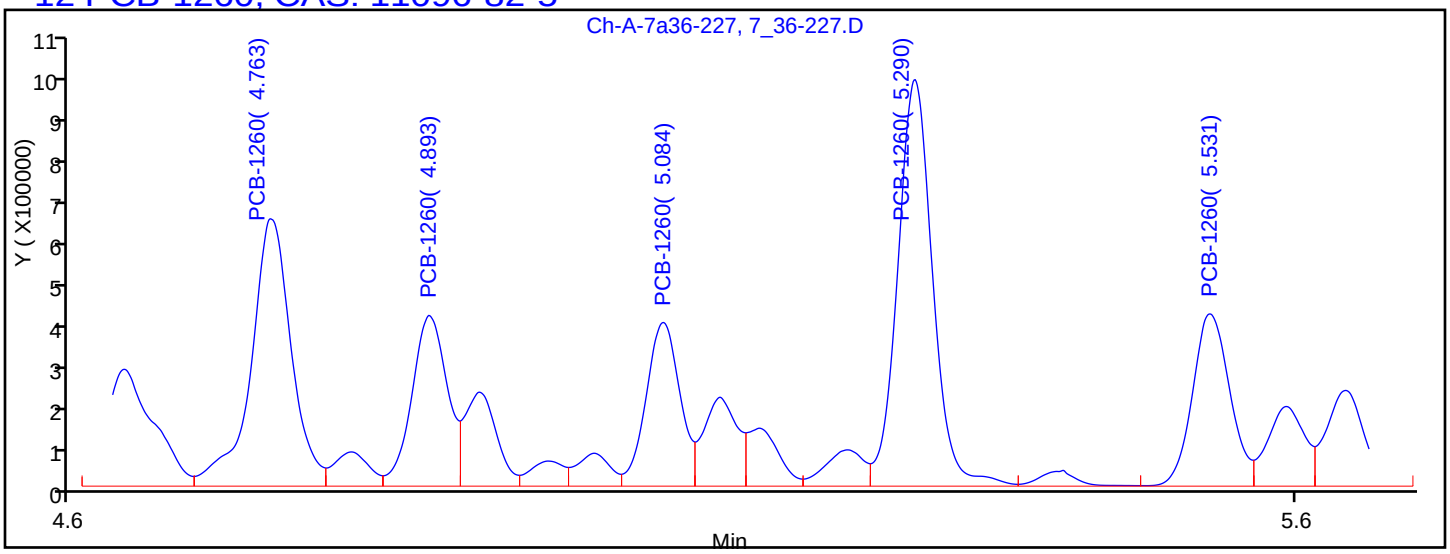
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

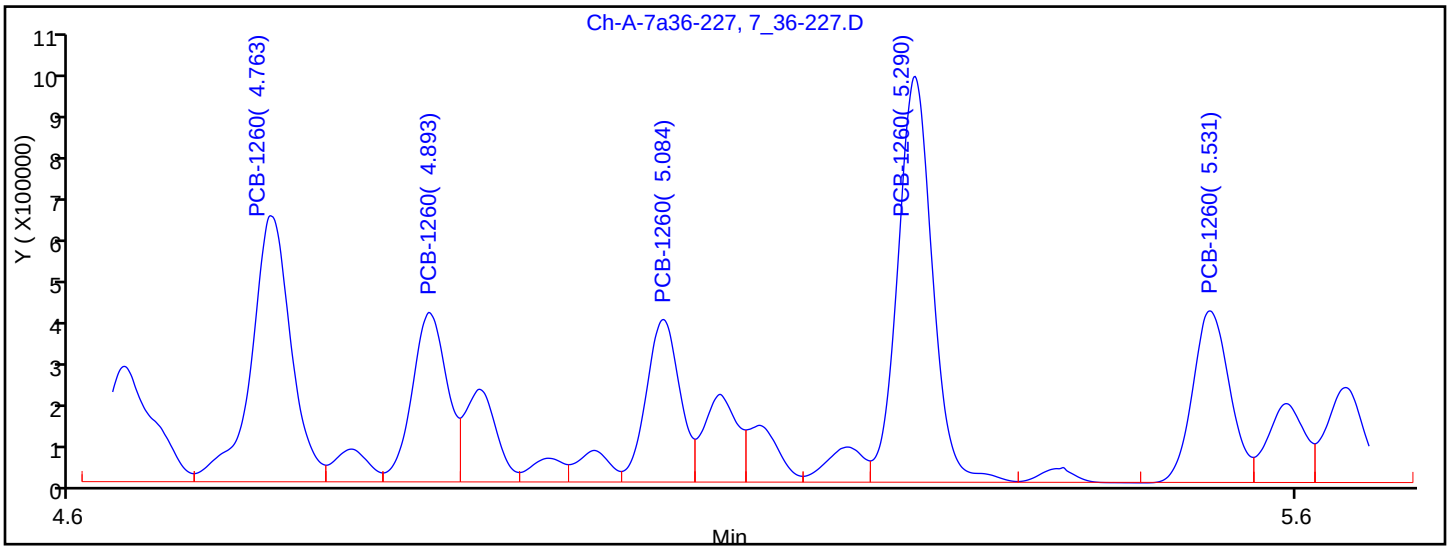
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.763	Response = 1443621
4.893	Response = 811632
5.084	Response = 742202
5.290	Response = 1906796
5.531	Response = 863099



Manual Integration Results

4.763	Response = 1419510	M
4.893	Response = 798422	M
5.084	Response = 731060	M
5.290	Response = 1887703	M
5.531	Response = 850748	M

Reviewer: owenj, 26-Jul-2017 14:19:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

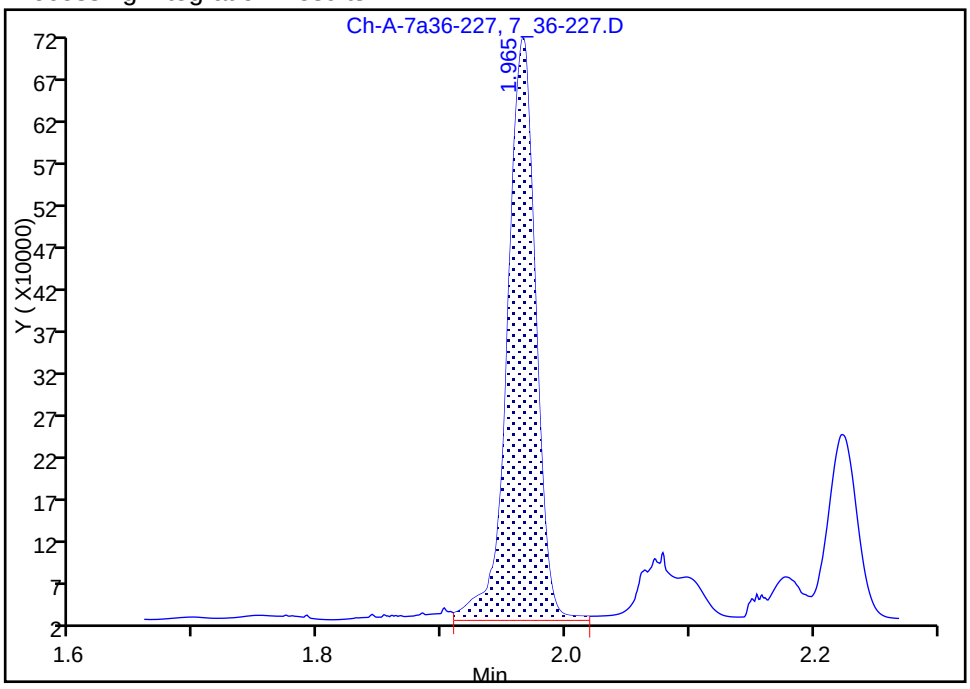
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D
Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7
Lims ID: LCS 480-368612/2-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

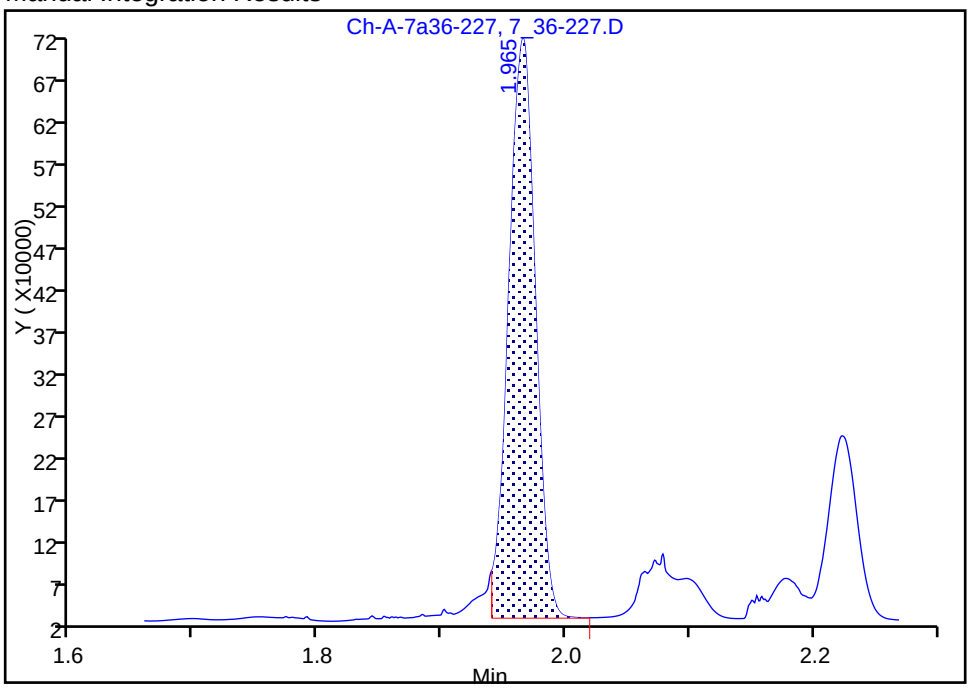
Processing Integration Results

RT: 1.97
Area: 1090215
Amount: 0.036327
Amount Units: ng/uL



Manual Integration Results

RT: 1.97
Area: 1022375
Amount: 0.034037
Amount Units: ng/uL



Reviewer: owenj, 26-Jul-2017 14:20:42
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368612/2-A

Matrix: Solid | Lab File ID: 7_36-227.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.21(g) | Date Analyzed: 07/26/2017 13:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.51		0.23	0.044
11096-82-5	PCB-1260	3.24		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	136		60-154
2051-24-3	DCB Decachlorobiphenyl	144		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D
Lims ID: LCS 480-368612/2-A
Client ID:
Sample Type: LCS
Inject. Date: 26-Jul-2017 13:51:27 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:53 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.001	12384866	0.5000	0.5000	
2	0.942	0.941	0.001	34904387	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.965	1.966	-0.001	1022375	0.0200	0.0340	M
2	1.493	1.491	0.001	2115918	0.0200	0.0272	M
						RPD = 22.34	
9 PCB-1016							M
1	2.544	2.544	0.000	737890	0.5000	0.7952	M
1	2.693	2.691	0.002	465759	0.5000	0.8172	M
1	2.898	2.893	0.005	1769133	0.5000	0.8908	M
1	2.981	2.980	0.001	668926	0.5000	0.9038	M
1	3.043	3.041	0.002	454909	0.5000	0.8865	M
		Average of Peak Amounts =				0.8587	
2	2.163	2.163	0.000	1809213	0.5000	0.7722	M
2	2.465	2.466	-0.001	3777434	0.5000	0.7654	M
2	2.574	2.573	0.001	1471314	0.5000	0.7884	M
2	2.663	2.663	0.000	971029	0.5000	0.7730	M
2	2.937	2.936	0.001	1688393	0.5000	0.7838	M
		Average of Peak Amounts =				0.7766	
						RPD = 10.05	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.763	4.764	-0.001	1419510	0.5000	0.9155	M
1	4.893	4.893	0.000	798422	0.5000	0.9169	M
1	5.084	5.083	0.002	731060	0.5000	0.8888	M
1	5.290	5.288	0.002	1887703	0.5000	0.9123	M
1	5.531	5.532	-0.001	850748	0.5000	0.8691	M
		Average of Peak Amounts =				0.9005	
2	4.295	4.295	0.000	1900184	0.5000	0.7612	M
2	4.349	4.349	0.000	1591766	0.5000	0.6975	M
2	4.671	4.672	-0.001	1241398	0.5000	0.6963	M
2	4.748	4.748	0.000	4027500	0.5000	0.7024	M
2	5.076	5.074	0.002	2498410	0.5000	0.7204	M
		Average of Peak Amounts =				0.7156	
						RPD = 22.89	
$ 15 DCB Decachlorobiphenyl							
1	6.884	6.907	-0.023	640338	0.0200	0.0372	
2	6.056	6.056	0.000	1446876	0.0200	0.0288	
						RPD = 25.57	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

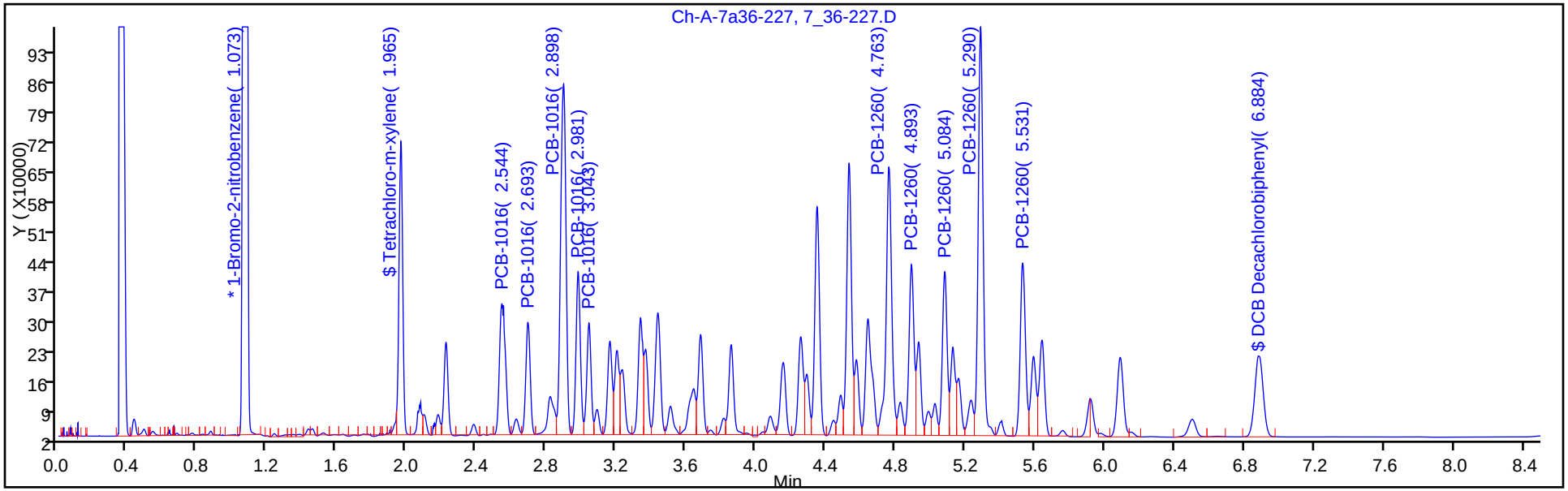
Report Date: 26-Jul-2017 15:17:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

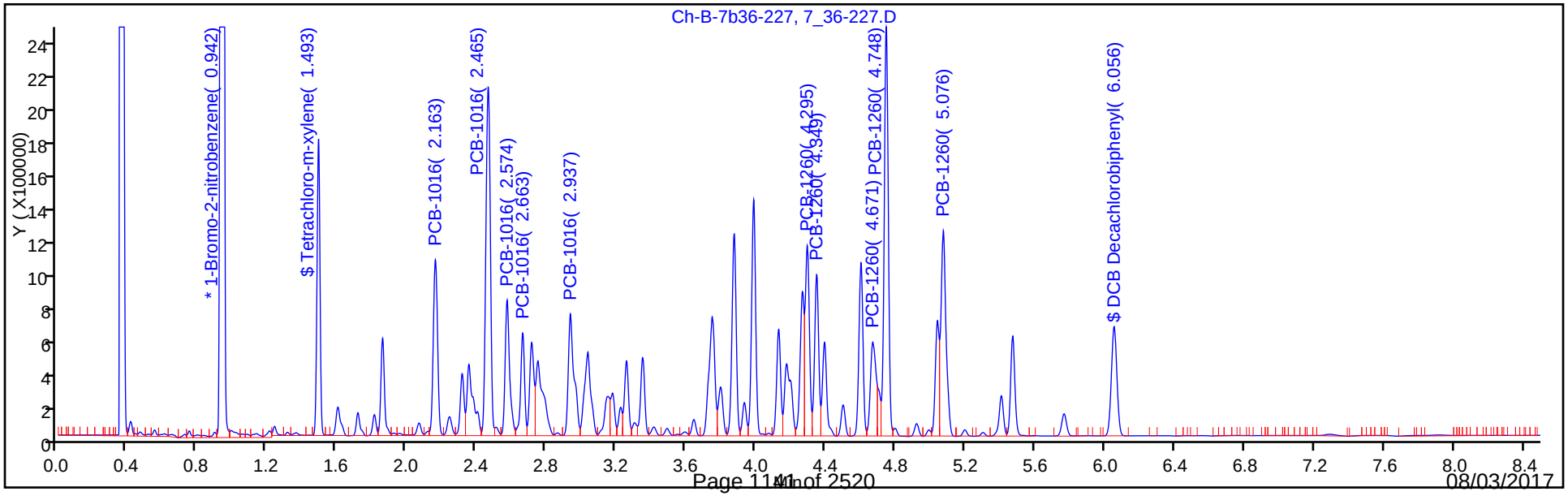
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date:	26-Jul-2017 13:51:27	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368612/2-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 26-Jul-2017 15:17:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7

Lims ID: LCS 480-368612/2-A

Client ID:

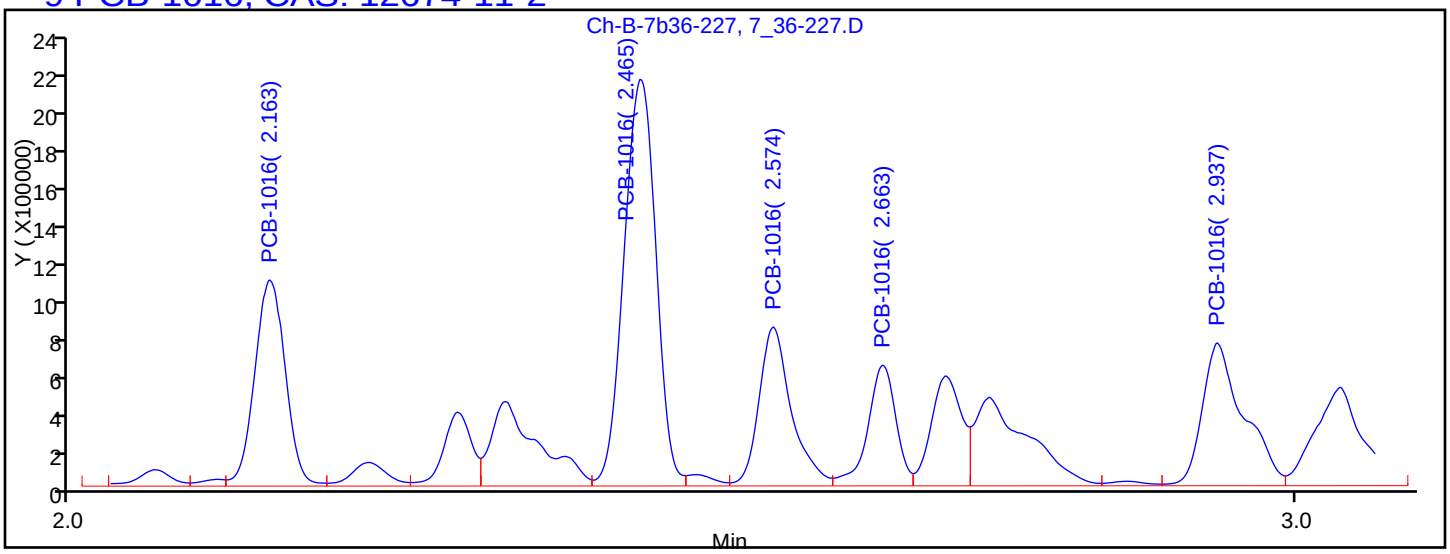
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

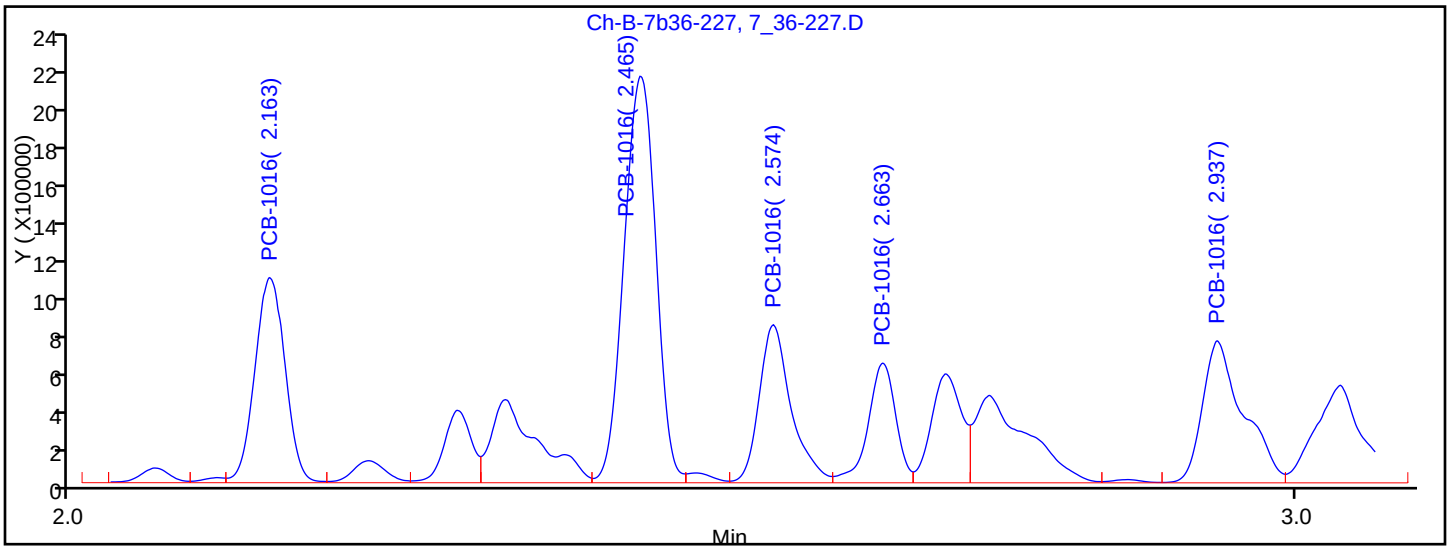
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.163	Response = 1853035
2.465	Response = 3814204
2.574	Response = 1509570
2.663	Response = 999941
2.937	Response = 1726642



Manual Integration Results

2.163	Response = 1809213	M
2.465	Response = 3777434	M
2.574	Response = 1471314	M
2.663	Response = 971029	M
2.937	Response = 1688393	M

Reviewer: owenj, 26-Jul-2017 14:20:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 26-Jul-2017 15:17:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7

Lims ID: LCS 480-368612/2-A

Client ID:

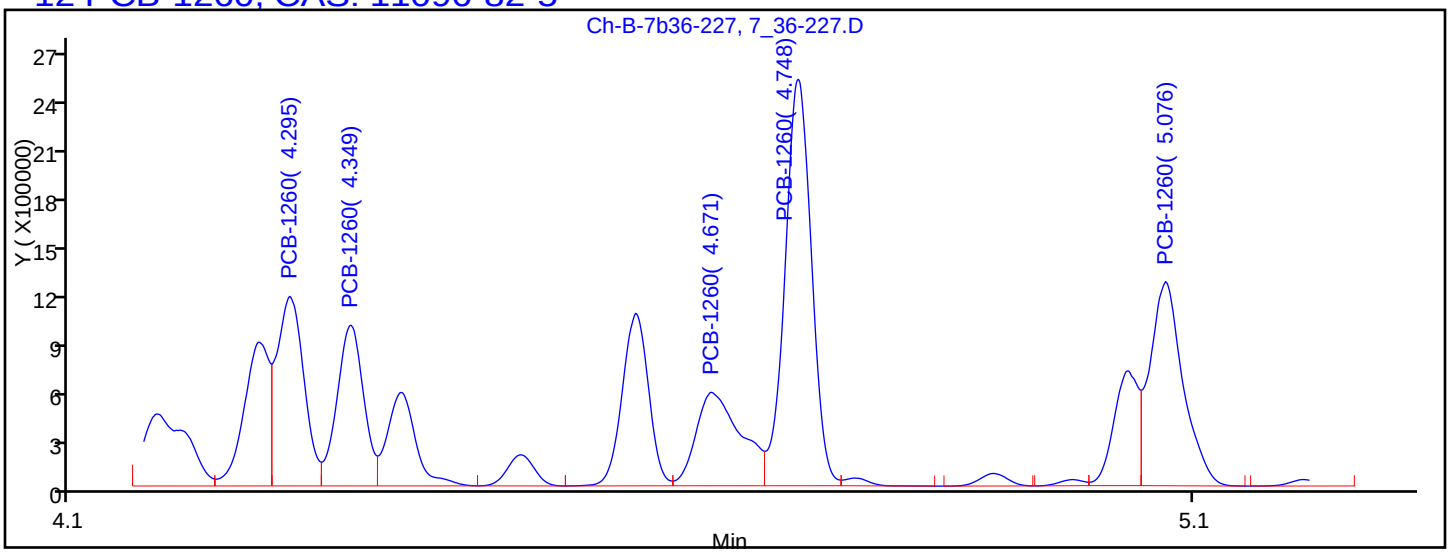
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

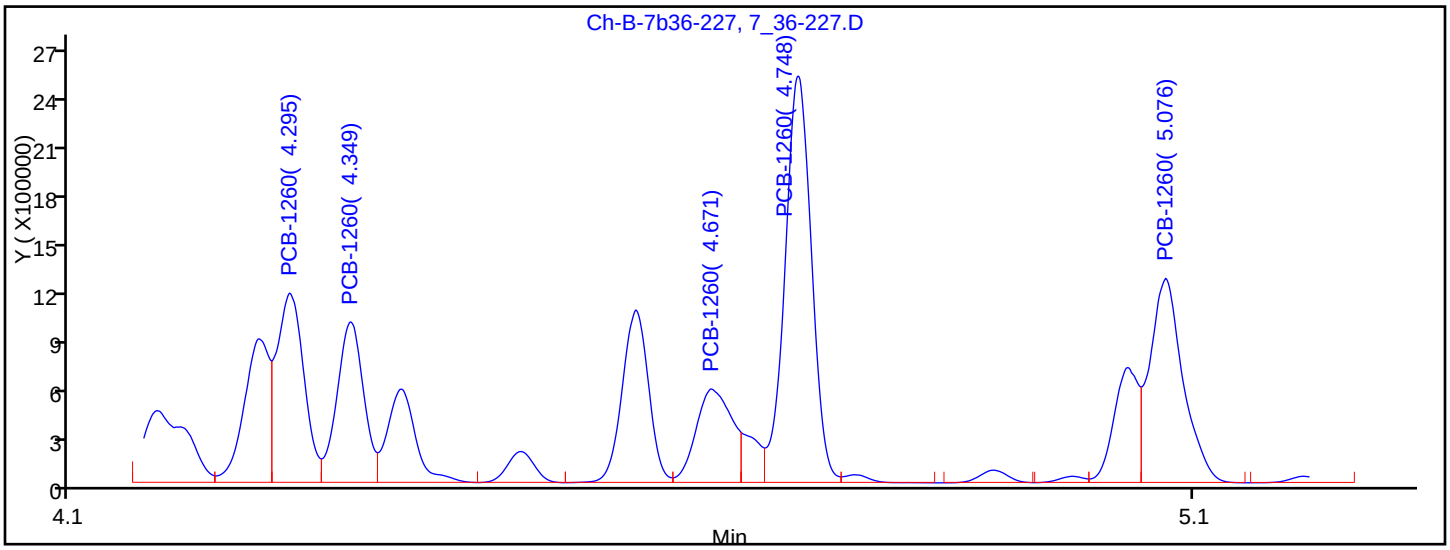
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.295	Response = 1905226
4.349	Response = 1597076
4.671	Response = 1567679
4.748	Response = 4029577
5.076	Response = 2503363



Manual Integration Results

4.295	Response = 1900184	M
4.349	Response = 1591766	M
4.671	Response = 1241398	M
4.748	Response = 4027500	M
5.076	Response = 2498410	M

Reviewer: owenj, 26-Jul-2017 14:20:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

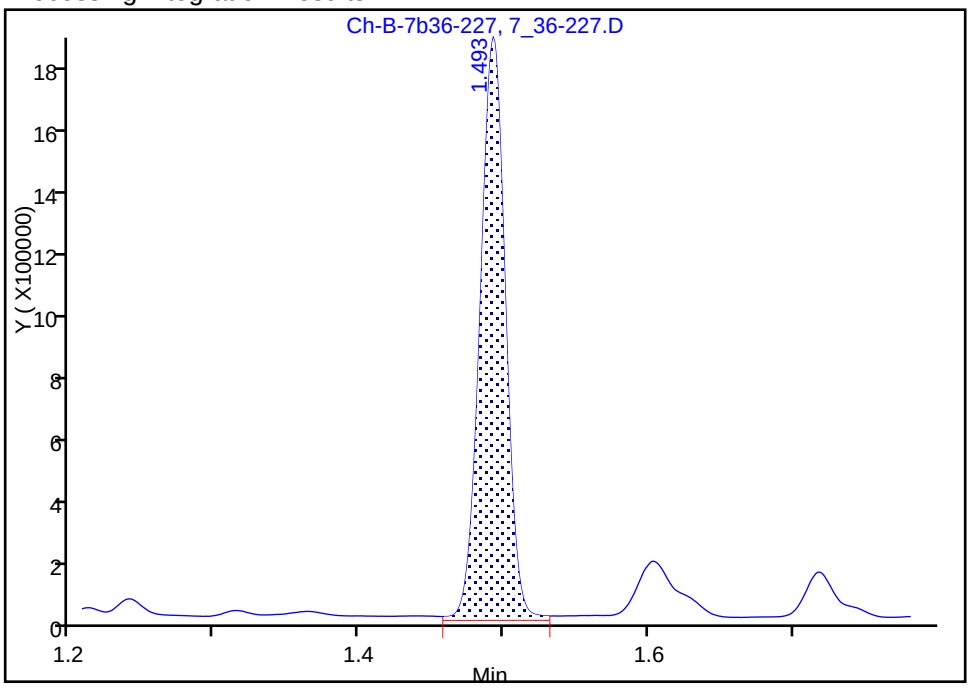
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D
Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7
Lims ID: LCS 480-368612/2-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

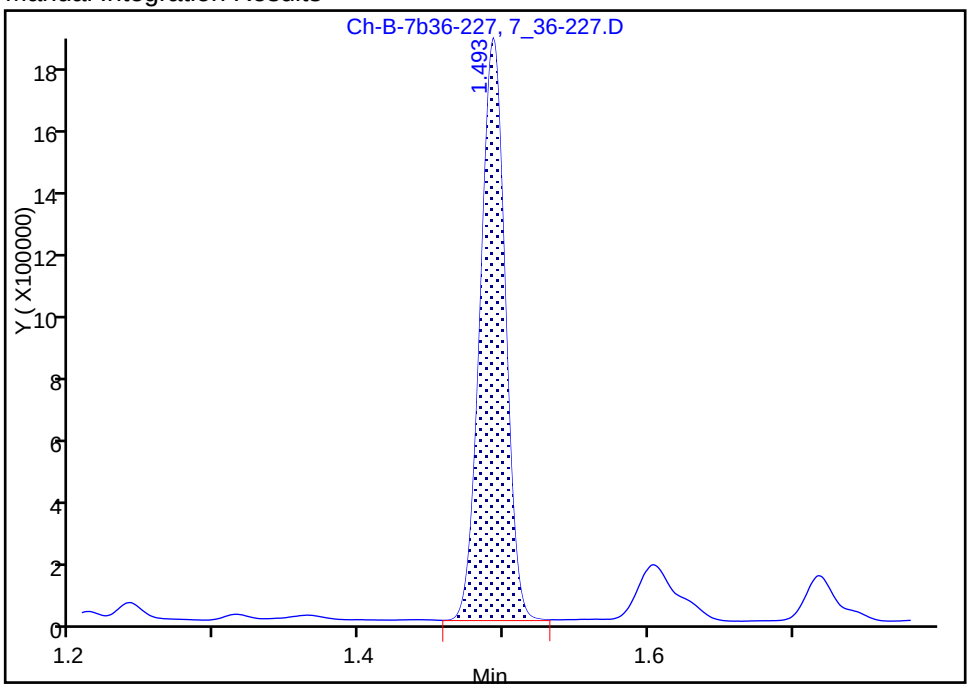
Processing Integration Results

RT: 1.49
Area: 2164428
Amount: 0.027825
Amount Units: ng/uL



Manual Integration Results

RT: 1.49
Area: 2115918
Amount: 0.027197
Amount Units: ng/uL



Reviewer: owenj, 26-Jul-2017 14:20:05
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS | Lab Sample ID: 480-121411-3 MS

Matrix: Solid | Lab File ID: 6_28-245.D

Analysis Method: 8082A | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.56(g) | Date Analyzed: 07/24/2017 23:16

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.64		0.23	0.046
11104-28-2	PCB-1221	ND		0.23	0.046
11141-16-5	PCB-1232	ND		0.23	0.046
53469-21-9	PCB-1242	ND		0.23	0.046
12672-29-6	PCB-1248	ND		0.23	0.046
11097-69-1	PCB-1254	ND		0.23	0.11
11096-82-5	PCB-1260	3.53		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	158	X	60-154
2051-24-3	DCB Decachlorobiphenyl	159		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-245.D
Lims ID: 480-121411-A-3-G MS
Client ID: TP-15
Sample Type: MS
Inject. Date: 24-Jul-2017 23:16:17 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:56:02 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:56:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.998	0.999	-0.001	13055262	0.5000	0.5000	
2	1.099	1.103	-0.003	184735606	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.893	1.894	-0.001	711667	0.0200	0.0316	M
2	1.724	1.725	-0.001	11583575	0.0200	0.0317	
						RPD = 0.20	
6 PCB-1016							M
1	2.488	2.488	0.000	492937	0.5000	0.7218	M
1	2.636	2.637	-0.001	341114	0.5000	0.7730	M
1	2.837	2.836	0.001	1304104	0.5000	0.7799	M
1	2.922	2.923	-0.001	483891	0.5000	0.8107	M
1	2.984	2.985	-0.001	324933	0.5000	0.7990	M
		Average of Peak Amounts =				0.7769	
2	2.493	2.494	-0.001	9956817	0.5000	0.9502	
2	2.813	2.814	-0.001	22275951	0.5000	0.8766	
2	2.934	2.935	-0.001	7695152	0.5000	0.8636	
2	3.075	3.075	0.000	4326249	0.5000	0.8750	
2	3.317	3.317	0.000	9183761	0.5000	0.9125	
		Average of Peak Amounts =				0.8956	
						RPD = 14.20	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.686	4.689	-0.003	970543	0.5000	0.7670	
1	4.816	4.816	0.000	534331	0.5000	0.6855	
1	5.005	5.005	0.000	488752	0.5000	0.8169	
1	5.203	5.204	-0.001	1257757	0.5000	0.7338	
1	5.440	5.442	-0.002	574190	0.5000	0.7702	
		Average of Peak Amounts =				0.7547	
2	4.694	4.695	-0.001	8839371	0.5000	0.9159	
2	4.739	4.741	-0.002	8233358	0.5000	1.18	
2	5.003	5.006	-0.004	7898989	0.5000	1.13	
2	5.141	5.142	-0.001	17244050	0.5000	0.9493	
2	5.476	5.478	-0.002	9894940	0.5000	1.04	
		Average of Peak Amounts =				1.04	
						RPD = 31.92	
9 1260 Res 1							
1	5.440	5.442	-0.002	574190		NR	
2	5.003	5.006	-0.004	7898989		NR	
						RPD = NaN	
14 1260 Res 2							
1	5.543	5.544	-0.002	303501		NR	
2	5.071	5.073	-0.002	5519126		NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.452	6.453	0.000	367565	0.0200	0.0318	
2	6.385	6.387	-0.002	3774321	0.0200	0.0354	
						RPD = 10.69	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

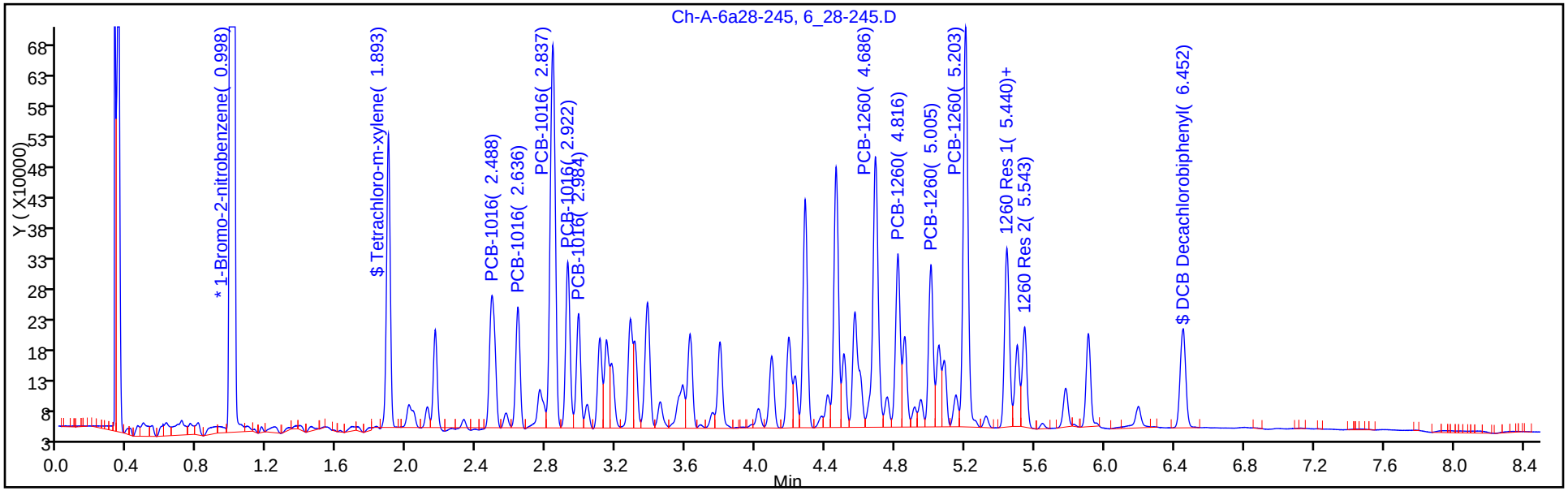
Report Date: 25-Jul-2017 10:56:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

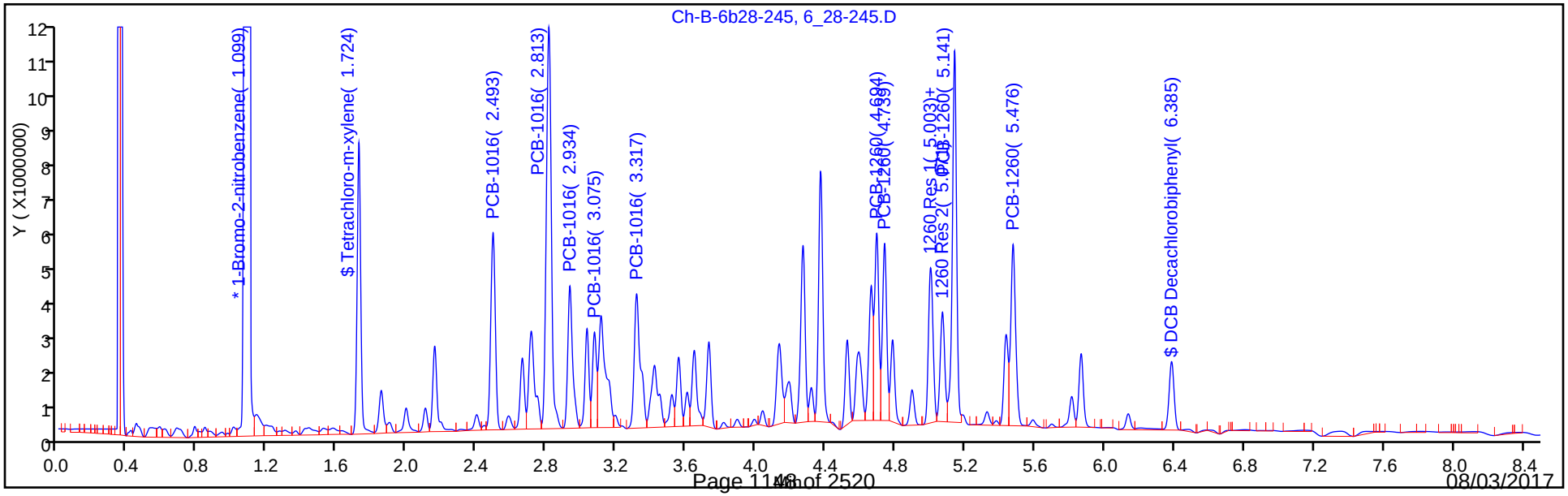
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-245.D

Injection Date:	24-Jul-2017 23:16:17	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-G MS			Worklist Smp#:	17
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 25-Jul-2017 10:56:03 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-245.D

Injection Date: 24-Jul-2017 23:16:17 Instrument ID: HP6890-6

Lims ID: 480-121411-A-3-G MS

Client ID: TP-15

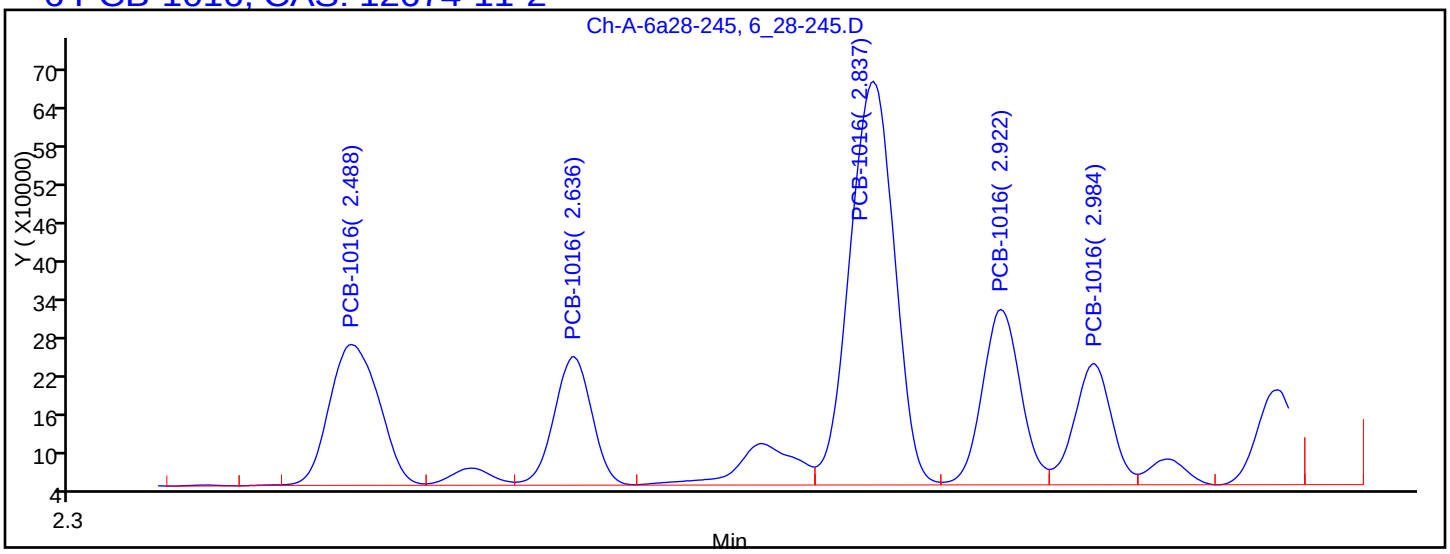
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

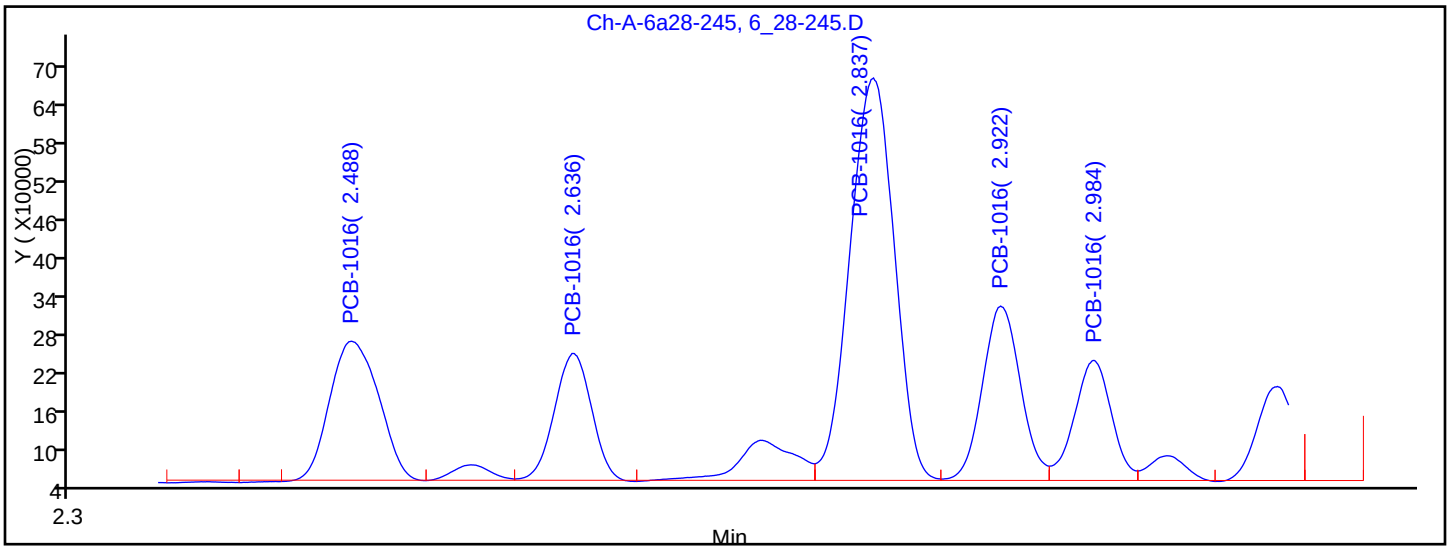
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.488	Response = 509487
2.636	Response = 353349
2.837	Response = 1314260
2.922	Response = 491821
2.984	Response = 330842



Manual Integration Results

2.488	Response = 492937	M
2.636	Response = 341114	M
2.837	Response = 1304104	M
2.922	Response = 483891	M
2.984	Response = 324933	M

Reviewer: owenj, 25-Jul-2017 10:55:49

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

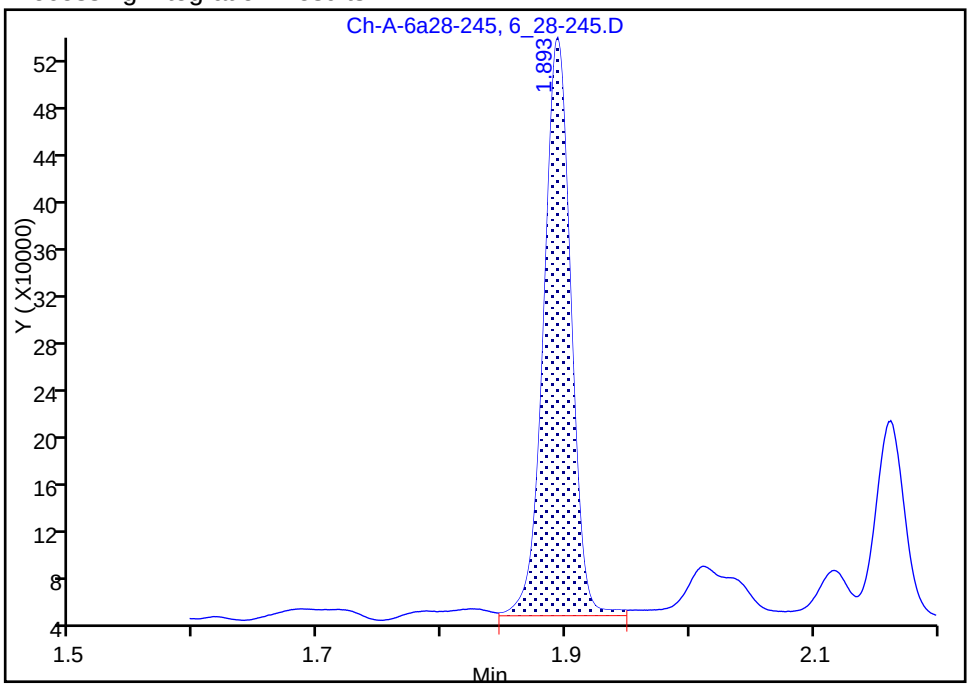
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-245.D				
Injection Date:	24-Jul-2017 23:16:17	Instrument ID:	HP6890-6		
Lims ID:	480-121411-A-3-G MS				
Client ID:	TP-15				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

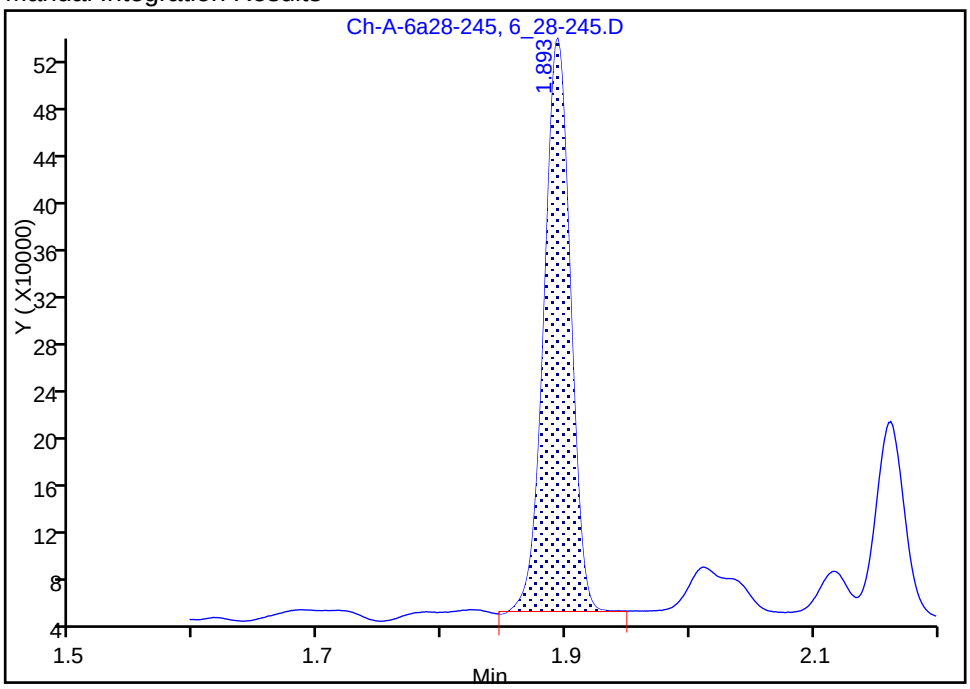
Processing Integration Results

RT: 1.89
Area: 738175
Amount: 0.032827
Amount Units: ng/uL



Manual Integration Results

RT: 1.89
Area: 711667
Amount: 0.031649
Amount Units: ng/uL



Reviewer: owenj, 25-Jul-2017 10:55:49

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MS | Lab Sample ID: 480-121411-3 MS

Matrix: Solid | Lab File ID: 6_28-245.D

Analysis Method: 8082A | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.56(g) | Date Analyzed: 07/24/2017 23:16

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	159	X	60-154
2051-24-3	DCB Decachlorobiphenyl	177	X	65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-245.D
Lims ID: 480-121411-A-3-G MS
Client ID: TP-15
Sample Type: MS
Inject. Date: 24-Jul-2017 23:16:17 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:56:02 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:56:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.998	0.999	-0.001	13055262	0.5000	0.5000	
2	1.099	1.103	-0.003	184735606	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.893	1.894	-0.001	711667	0.0200	0.0316	M
2	1.724	1.725	-0.001	11583575	0.0200	0.0317	
						RPD = 0.20	
6 PCB-1016							M
1	2.488	2.488	0.000	492937	0.5000	0.7218	M
1	2.636	2.637	-0.001	341114	0.5000	0.7730	M
1	2.837	2.836	0.001	1304104	0.5000	0.7799	M
1	2.922	2.923	-0.001	483891	0.5000	0.8107	M
1	2.984	2.985	-0.001	324933	0.5000	0.7990	M
		Average of Peak Amounts =				0.7769	
2	2.493	2.494	-0.001	9956817	0.5000	0.9502	
2	2.813	2.814	-0.001	22275951	0.5000	0.8766	
2	2.934	2.935	-0.001	7695152	0.5000	0.8636	
2	3.075	3.075	0.000	4326249	0.5000	0.8750	
2	3.317	3.317	0.000	9183761	0.5000	0.9125	
		Average of Peak Amounts =				0.8956	
						RPD = 14.20	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							
1	4.686	4.689	-0.003	970543	0.5000	0.7670	
1	4.816	4.816	0.000	534331	0.5000	0.6855	
1	5.005	5.005	0.000	488752	0.5000	0.8169	
1	5.203	5.204	-0.001	1257757	0.5000	0.7338	
1	5.440	5.442	-0.002	574190	0.5000	0.7702	
		Average of Peak Amounts =				0.7547	
2	4.694	4.695	-0.001	8839371	0.5000	0.9159	
2	4.739	4.741	-0.002	8233358	0.5000	1.18	
2	5.003	5.006	-0.004	7898989	0.5000	1.13	
2	5.141	5.142	-0.001	17244050	0.5000	0.9493	
2	5.476	5.478	-0.002	9894940	0.5000	1.04	
		Average of Peak Amounts =				1.04	
						RPD = 31.92	
9 1260 Res 1							
1	5.440	5.442	-0.002	574190		NR	
2	5.003	5.006	-0.004	7898989		NR	
						RPD = NaN	
14 1260 Res 2							
1	5.543	5.544	-0.002	303501		NR	
2	5.071	5.073	-0.002	5519126		NR	
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.452	6.453	0.000	367565	0.0200	0.0318	
2	6.385	6.387	-0.002	3774321	0.0200	0.0354	
						RPD = 10.69	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

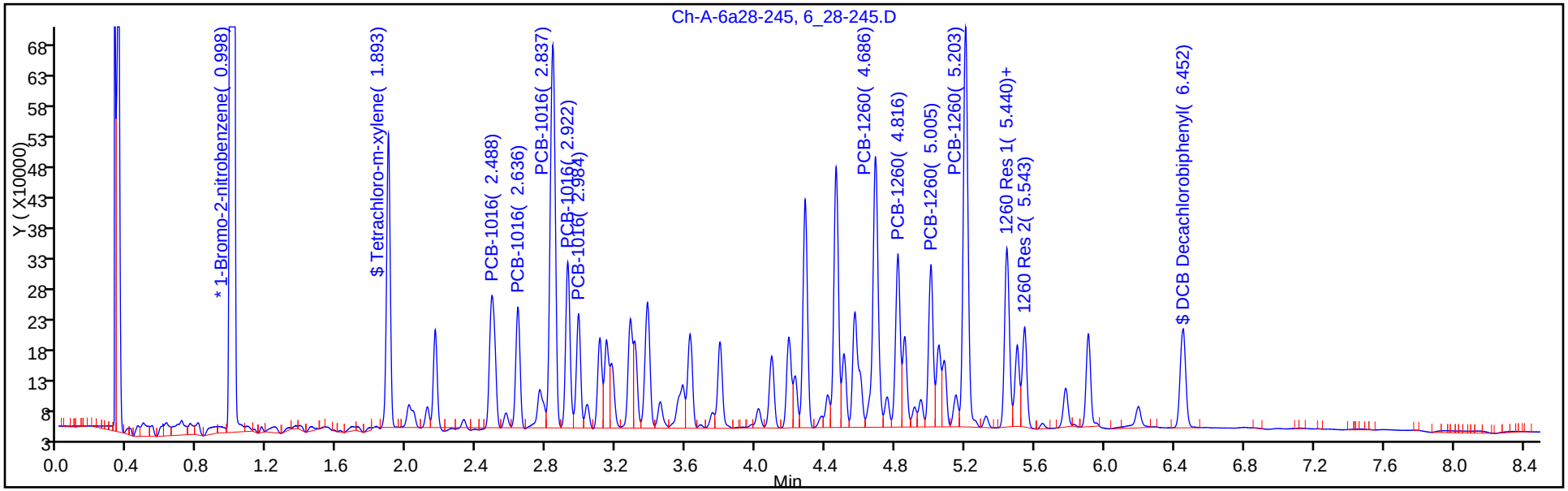
Report Date: 25-Jul-2017 10:56:03 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

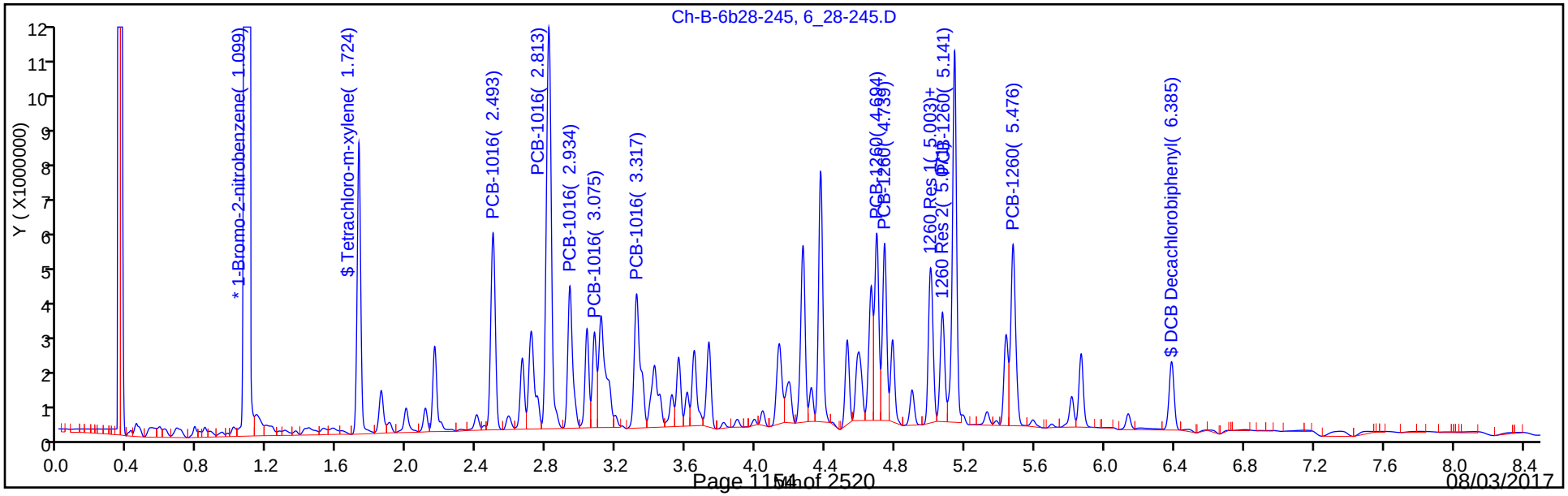
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-245.D

Injection Date:	24-Jul-2017 23:16:17	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-G MS			Worklist Smp#:	17
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD | Lab Sample ID: 480-121411-3 MSD

Matrix: Solid | Lab File ID: 6_28-246.D

Analysis Method: 8082A | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.20(g) | Date Analyzed: 07/24/2017 23:32

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.36		0.27	0.053
11104-28-2	PCB-1221	ND		0.27	0.053
11141-16-5	PCB-1232	ND		0.27	0.053
53469-21-9	PCB-1242	ND		0.27	0.053
12672-29-6	PCB-1248	ND		0.27	0.053
11097-69-1	PCB-1254	ND		0.27	0.13
11096-82-5	PCB-1260	2.18		0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	132		60-154
2051-24-3	DCB Decachlorobiphenyl	131		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-246.D
Lims ID: 480-121411-A-3-H MSD
Client ID: TP-15
Sample Type: MSD
Inject. Date: 24-Jul-2017 23:32:13 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:56:38 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:56:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.999	0.999	0.000	13795029	0.5000	0.5000	
2	1.101	1.103	-0.001	191284626	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.894	1.894	0.000	629007	0.0200	0.0265	M
2	1.725	1.725	0.000	9951422	0.0200	0.0263	M
						RPD = 0.85	
6 PCB-1016							M
1	2.488	2.488	0.000	293224	0.5000	0.4063	M
1	2.637	2.637	0.000	204722	0.5000	0.4338	M
1	2.837	2.836	0.001	764429	0.5000	0.4312	M
1	2.923	2.923	-0.001	289539	0.5000	0.4536	M
1	2.984	2.985	-0.001	191434	0.5000	0.4400	M
		Average of Peak Amounts =				0.4330	
2	2.494	2.494	0.000	6132608	0.5000	0.5506	M
2	2.815	2.814	0.001	13416675	0.5000	0.5028	M
2	2.935	2.935	0.000	4818961	0.5000	0.5114	M
2	3.076	3.075	0.001	2668212	0.5000	0.5093	M
2	3.318	3.317	0.001	5710434	0.5000	0.5360	M
		Average of Peak Amounts =				0.5220	
						RPD = 18.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.688	4.689	-0.001	554007	0.5000	0.4113	M
1	4.816	4.816	0.000	297380	0.5000	0.3610	M
1	5.004	5.005	-0.001	282993	0.5000	0.4432	M
1	5.203	5.204	-0.001	689658	0.5000	0.3794	M
1	5.442	5.442	0.000	321835	0.5000	0.4048	M
		Average of Peak Amounts =				0.3999	
2	4.694	4.695	-0.001	5257570	0.5000	0.5199	M
2	4.739	4.741	-0.002	4964356	0.5000	0.6756	M
2	5.003	5.006	-0.003	4914188	0.5000	0.6708	M
2	5.141	5.142	-0.001	10073585	0.5000	0.5326	M
2	5.476	5.478	-0.002	5544788	0.5000	0.5548	M
		Average of Peak Amounts =				0.5907	
						RPD = 38.52	
9 1260 Res 1							M
1	5.442	5.442	0.000	321835		NR	M
2	5.003	5.006	-0.003	4914188		NR	M
						RPD = NaN	
14 1260 Res 2							M
1	5.543	5.544	-0.002	166852		NR	M
2	5.072	5.073	-0.001	3506504		NR	M
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.451	6.453	-0.001	319068	0.0200	0.0261	
2	6.386	6.387	-0.001	3269088	0.0200	0.0295	
						RPD = 12.12	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

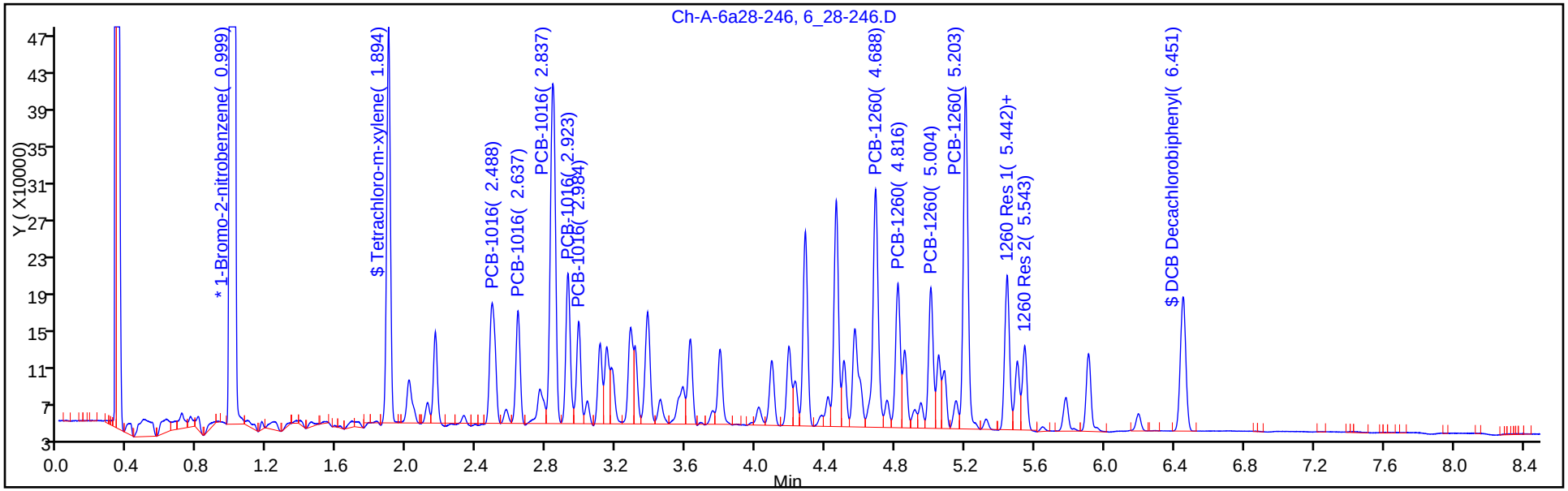
Report Date: 25-Jul-2017 10:56:38 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

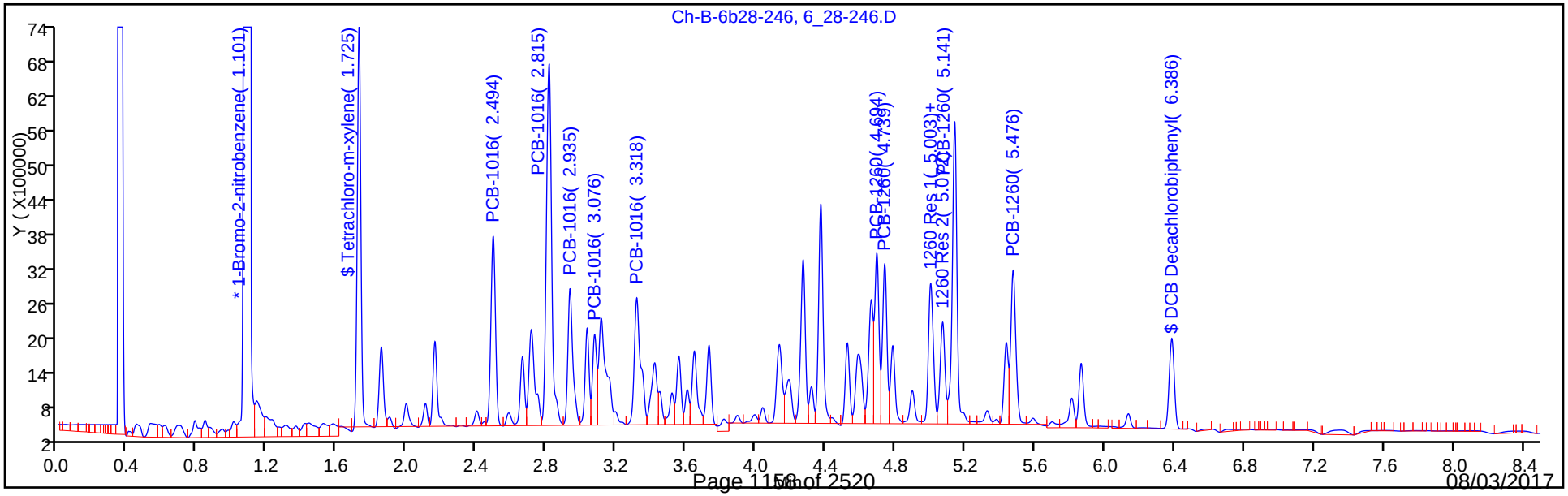
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-246.D

Injection Date:	24-Jul-2017 23:32:13	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-H MSD			Worklist Smp#:	18
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 25-Jul-2017 10:56:38 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-246.D

Injection Date: 24-Jul-2017 23:32:13 Instrument ID: HP6890-6

Lims ID: 480-121411-A-3-H MSD

Client ID: TP-15

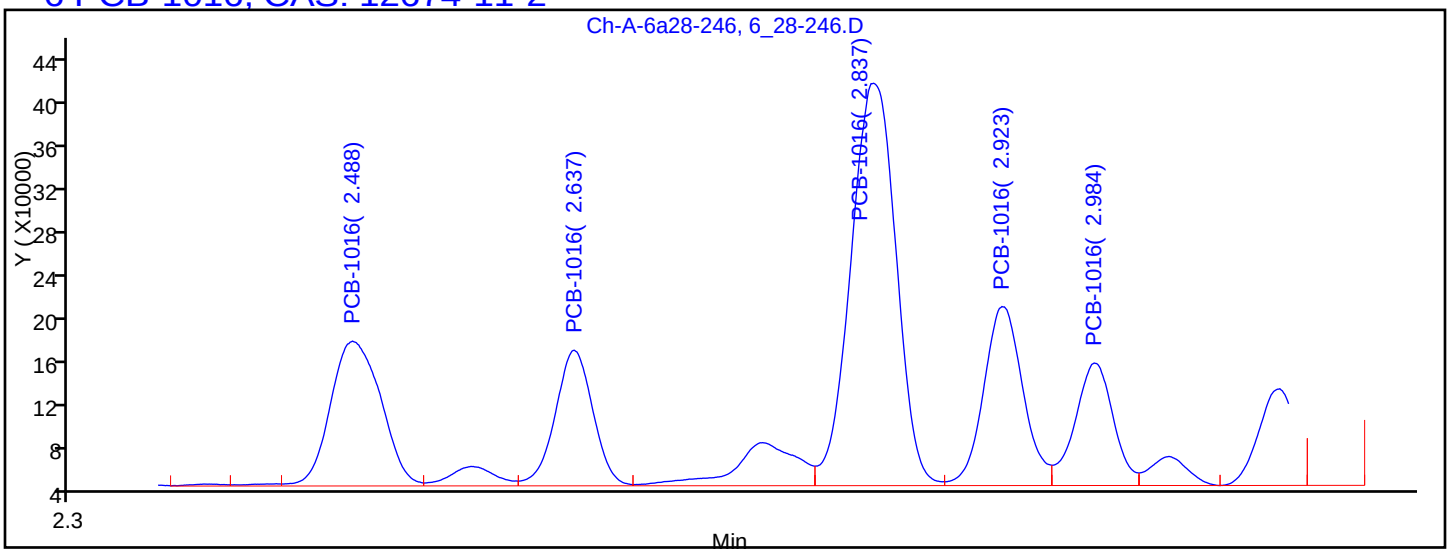
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

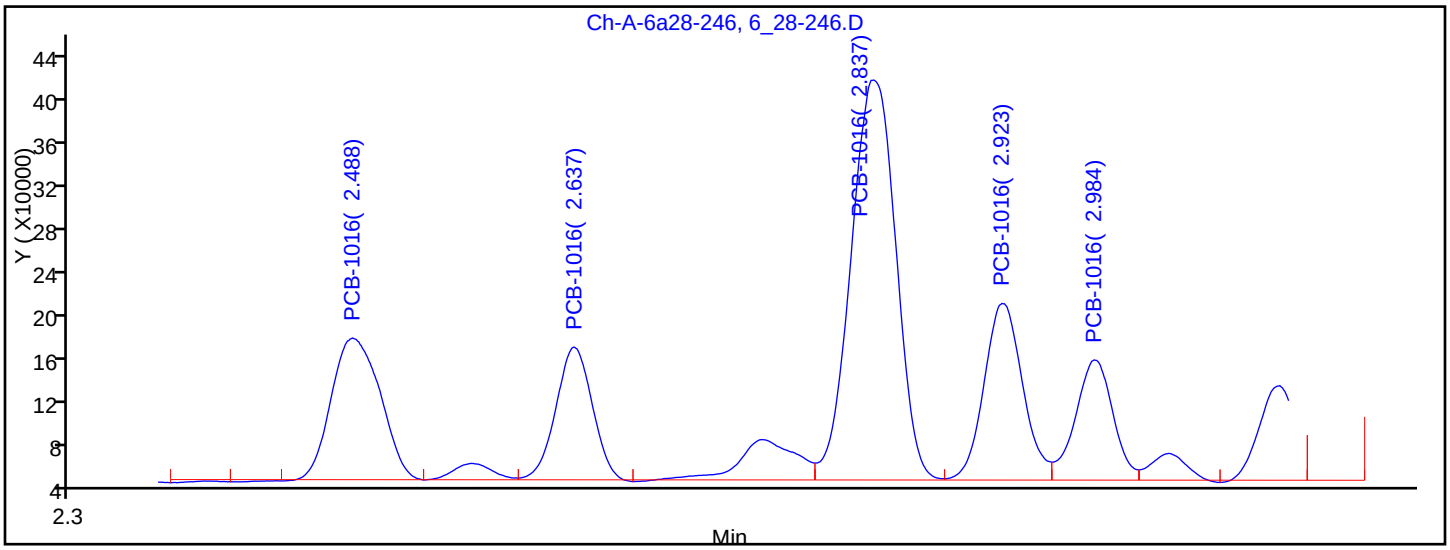
Column: Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.488	Response = 310019
2.637	Response = 217167
2.837	Response = 776787
2.923	Response = 299208
2.984	Response = 198938



Manual Integration Results

2.488	Response = 293224	M
2.637	Response = 204722	M
2.837	Response = 764429	M
2.923	Response = 289539	M
2.984	Response = 191434	M

Reviewer: owenj, 25-Jul-2017 10:56:18

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 25-Jul-2017 10:56:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-246.D

Injection Date: 24-Jul-2017 23:32:13 Instrument ID: HP6890-6

Lims ID: 480-121411-A-3-H MSD

Client ID: TP-15

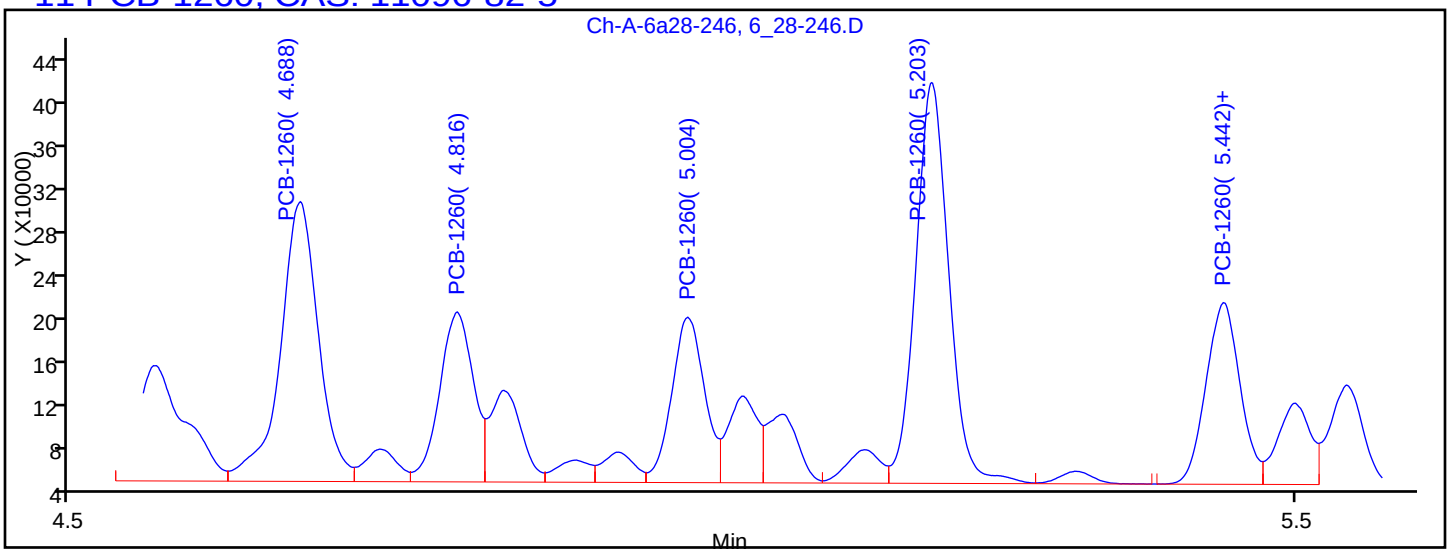
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

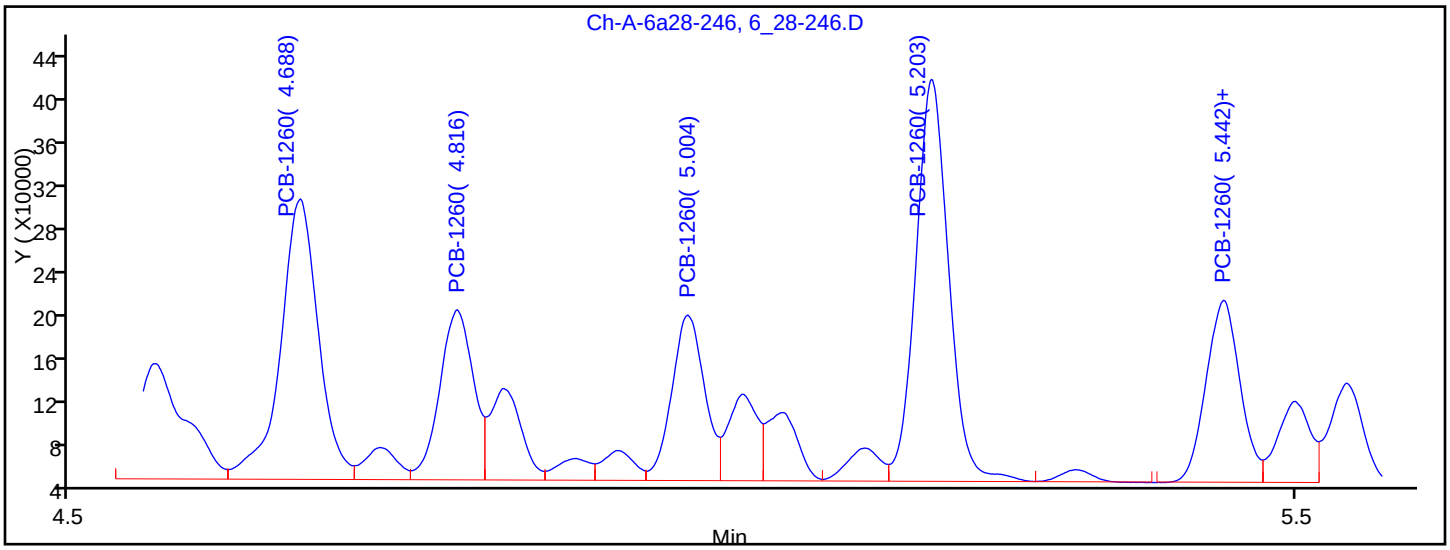
Column: Detector Ch-A-7A136

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.688	Response = 557076
4.816	Response = 299201
5.004	Response = 284837
5.203	Response = 693344
5.442	Response = 324672



Manual Integration Results

4.688	Response = 554007	M
4.816	Response = 297380	M
5.004	Response = 282993	M
5.203	Response = 689658	M
5.442	Response = 321835	M

Reviewer: owenj, 25-Jul-2017 10:56:21

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

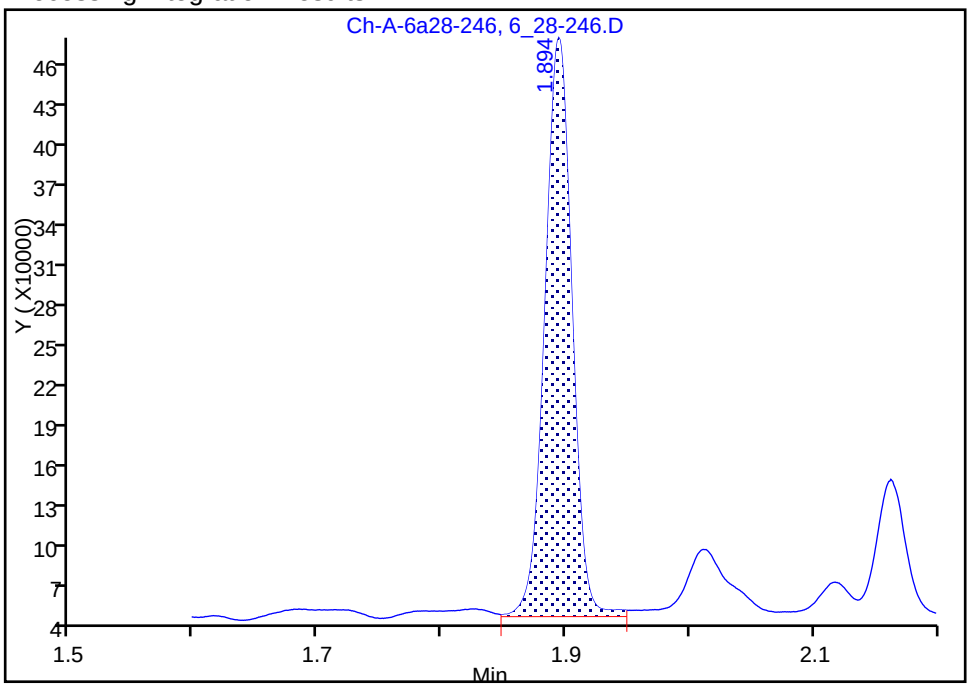
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-246.D				
Injection Date:	24-Jul-2017 23:32:13	Instrument ID:	HP6890-6		
Lims ID:	480-121411-A-3-H MSD				
Client ID:	TP-15				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

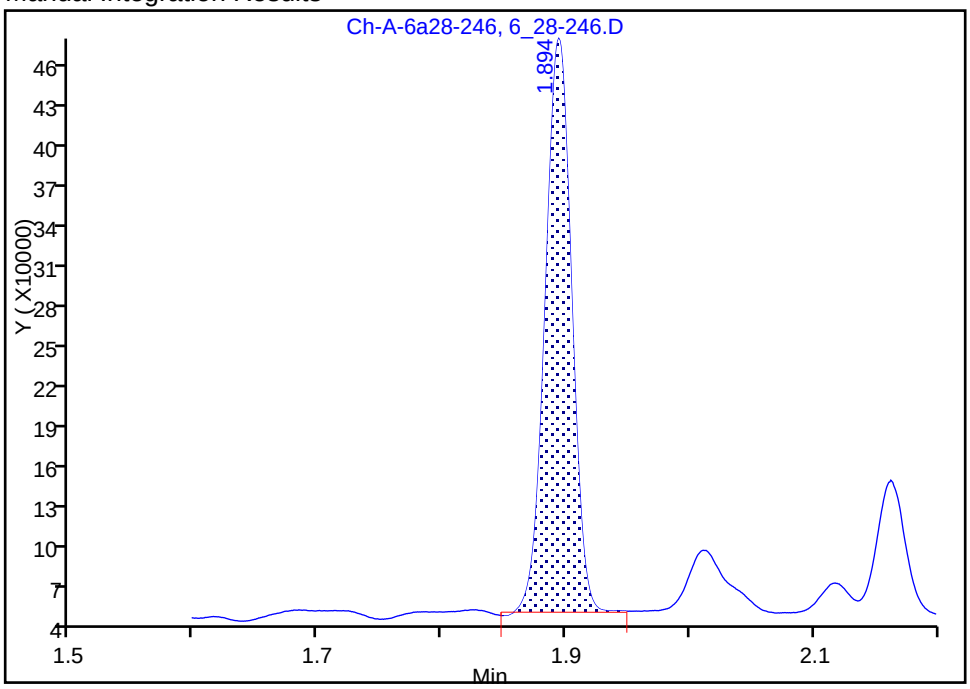
Processing Integration Results

RT: 1.89
Area: 652800
Amount: 0.027477
Amount Units: ng/uL



Manual Integration Results

RT: 1.89
Area: 629007
Amount: 0.026476
Amount Units: ng/uL



Reviewer: owenj, 25-Jul-2017 10:56:18

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Client Sample ID: TP-15 MSD | Lab Sample ID: 480-121411-3 MSD

Matrix: Solid | Lab File ID: 6_28-246.D

Analysis Method: 8082A | Date Collected: 07/20/2017 15:00

Extraction Method: 3550C | Date Extracted: 07/24/2017 07:43

Sample wt/vol: 2.20(g) | Date Analyzed: 07/24/2017 23:32

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368358 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	131		60-154
2051-24-3	DCB Decachlorobiphenyl	147		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-246.D
Lims ID: 480-121411-A-3-H MSD
Client ID: TP-15
Sample Type: MSD
Inject. Date: 24-Jul-2017 23:32:13 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-6

Method: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6890-6 PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 25-Jul-2017 10:56:38 Calib Date: 21-Jun-2017 13:13:48
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170621-63447.b\6_27-054.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK030

First Level Reviewer: owenj Date: 25-Jul-2017 10:56:38

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	0.999	0.999	0.000	13795029	0.5000	0.5000	
2	1.101	1.103	-0.001	191284626	0.5000	0.5000	
						RPD = 0.00	
$ 2 Tetrachloro-m-xylene							M
1	1.894	1.894	0.000	629007	0.0200	0.0265	M
2	1.725	1.725	0.000	9951422	0.0200	0.0263	M
						RPD = 0.85	
6 PCB-1016							M
1	2.488	2.488	0.000	293224	0.5000	0.4063	M
1	2.637	2.637	0.000	204722	0.5000	0.4338	M
1	2.837	2.836	0.001	764429	0.5000	0.4312	M
1	2.923	2.923	-0.001	289539	0.5000	0.4536	M
1	2.984	2.985	-0.001	191434	0.5000	0.4400	M
		Average of Peak Amounts =				0.4330	
2	2.494	2.494	0.000	6132608	0.5000	0.5506	M
2	2.815	2.814	0.001	13416675	0.5000	0.5028	M
2	2.935	2.935	0.000	4818961	0.5000	0.5114	M
2	3.076	3.075	0.001	2668212	0.5000	0.5093	M
2	3.318	3.317	0.001	5710434	0.5000	0.5360	M
		Average of Peak Amounts =				0.5220	
						RPD = 18.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1260							M
1	4.688	4.689	-0.001	554007	0.5000	0.4113	M
1	4.816	4.816	0.000	297380	0.5000	0.3610	M
1	5.004	5.005	-0.001	282993	0.5000	0.4432	M
1	5.203	5.204	-0.001	689658	0.5000	0.3794	M
1	5.442	5.442	0.000	321835	0.5000	0.4048	M
		Average of Peak Amounts =				0.3999	
2	4.694	4.695	-0.001	5257570	0.5000	0.5199	M
2	4.739	4.741	-0.002	4964356	0.5000	0.6756	M
2	5.003	5.006	-0.003	4914188	0.5000	0.6708	M
2	5.141	5.142	-0.001	10073585	0.5000	0.5326	M
2	5.476	5.478	-0.002	5544788	0.5000	0.5548	M
		Average of Peak Amounts =				0.5907	
						RPD = 38.52	
9 1260 Res 1							M
1	5.442	5.442	0.000	321835		NR	M
2	5.003	5.006	-0.003	4914188		NR	M
						RPD = NaN	
14 1260 Res 2							M
1	5.543	5.544	-0.002	166852		NR	M
2	5.072	5.073	-0.001	3506504		NR	M
						RPD = NaN	
$ 15 DCB Decachlorobiphenyl							
1	6.451	6.453	-0.001	319068	0.0200	0.0261	
2	6.386	6.387	-0.001	3269088	0.0200	0.0295	
						RPD = 12.12	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

COPPER_00066	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

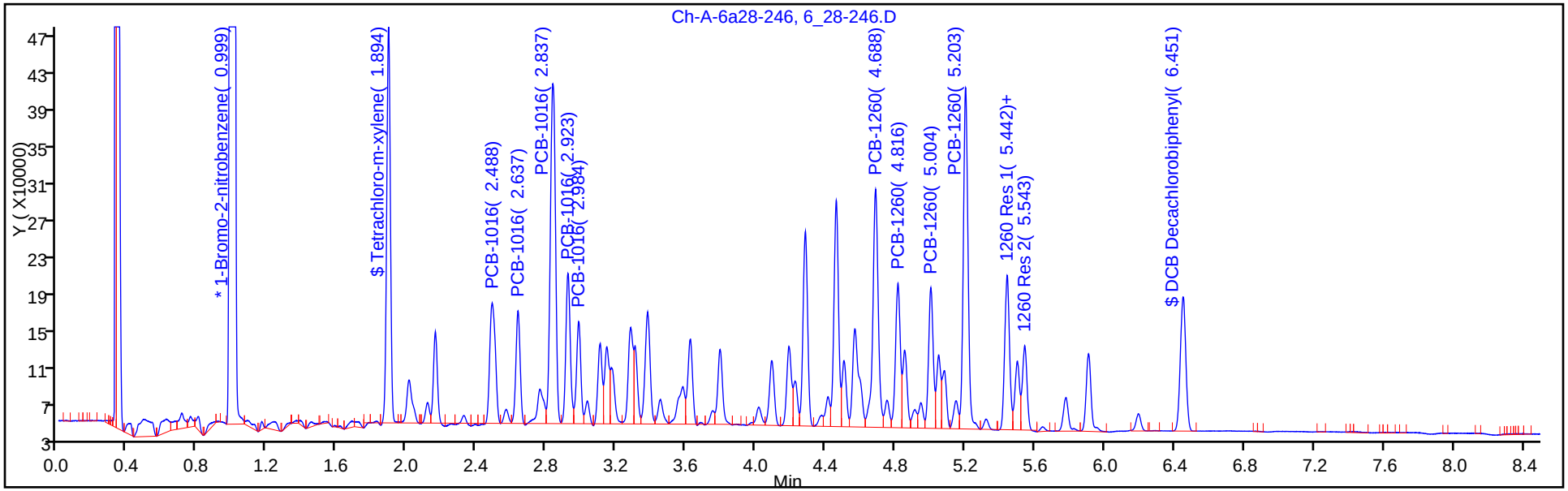
Report Date: 25-Jul-2017 10:56:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

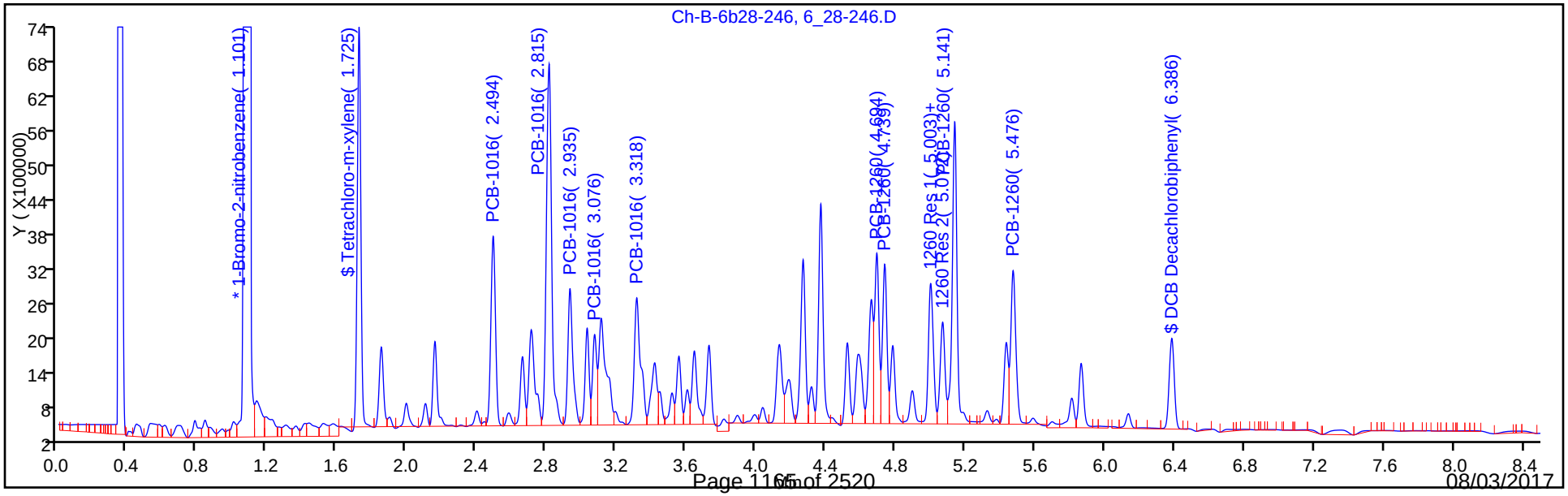
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-246.D

Injection Date:	24-Jul-2017 23:32:13	Instrument ID:	HP6890-6	Operator ID:	BufTCHROM
Lims ID:	480-121411-A-3-H MSD			Worklist Smp#:	18
Client ID:	TP-15				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 25-Jul-2017 10:56:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-246.D

Injection Date: 24-Jul-2017 23:32:13 Instrument ID: HP6890-6

Lims ID: 480-121411-A-3-H MSD

Client ID: TP-15

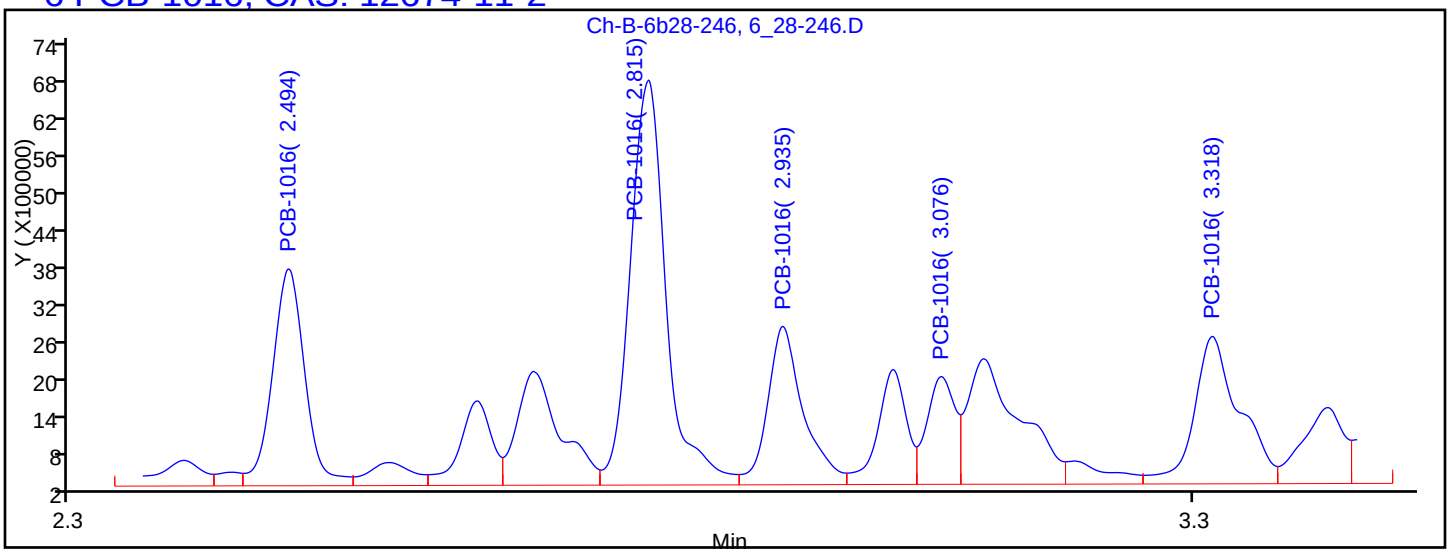
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL

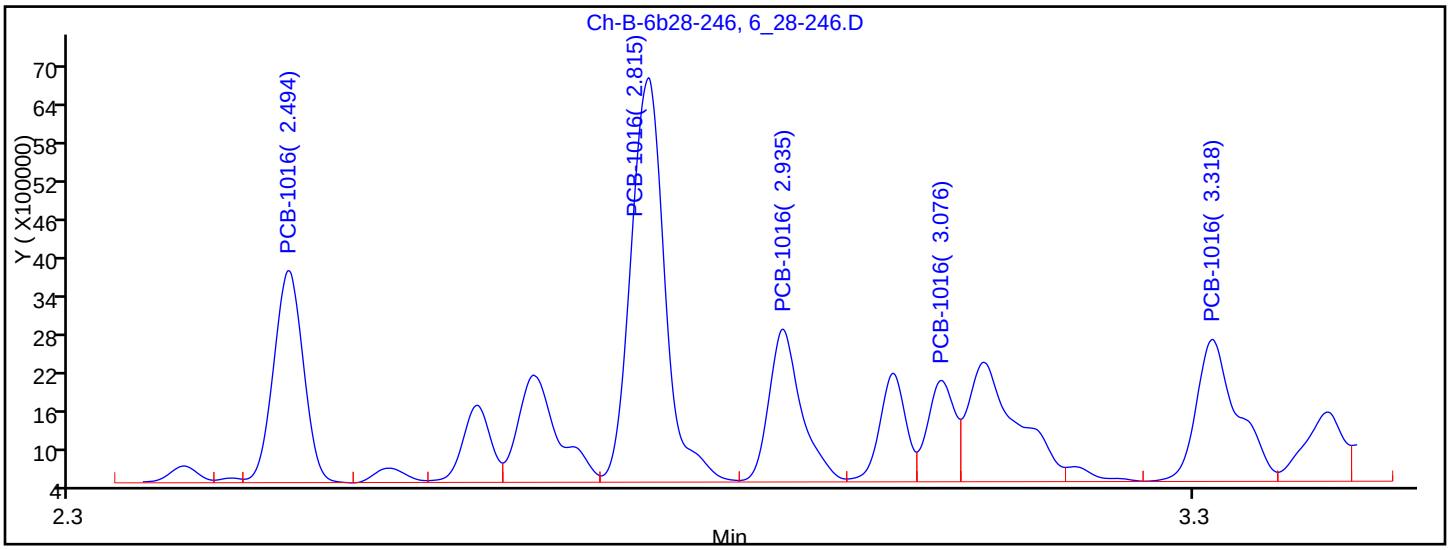
Column: Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.494	Response = 6987333
2.815	Response = 14463944
2.935	Response = 5616138
3.076	Response = 2985124
3.318	Response = 6668167



Manual Integration Results

2.494	Response = 6132608	M
2.815	Response = 13416675	M
2.935	Response = 4818961	M
3.076	Response = 2668212	M
3.318	Response = 5710434	M

Reviewer: owenj, 25-Jul-2017 10:56:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

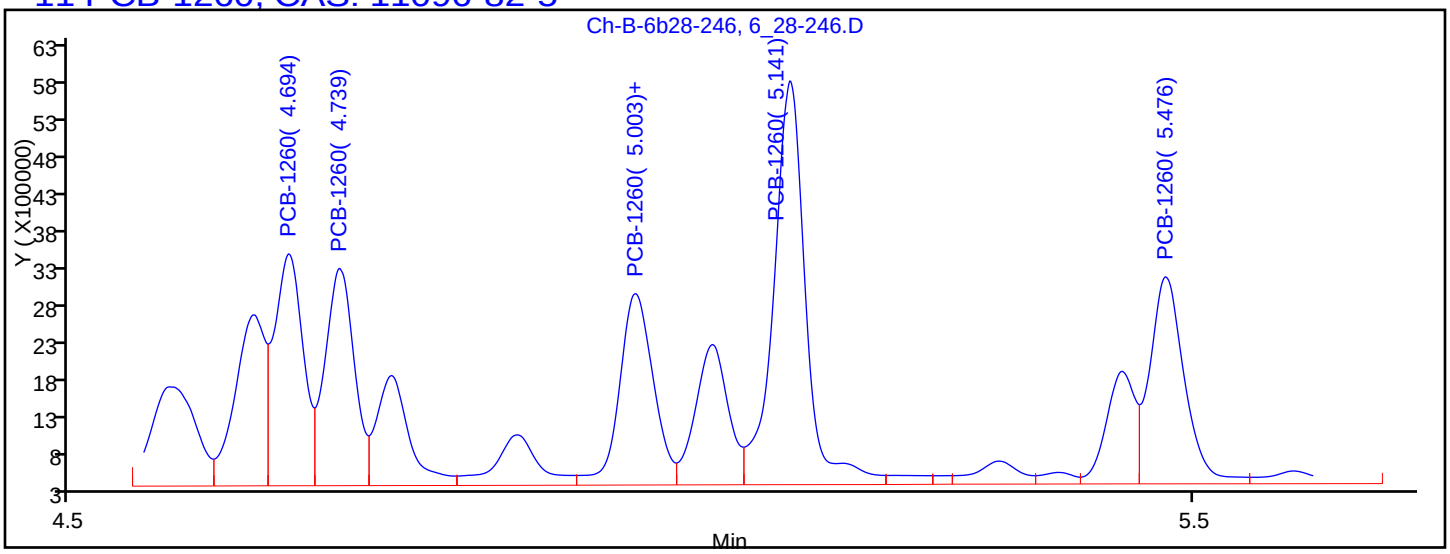
Report Date: 25-Jul-2017 10:56:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-246.D

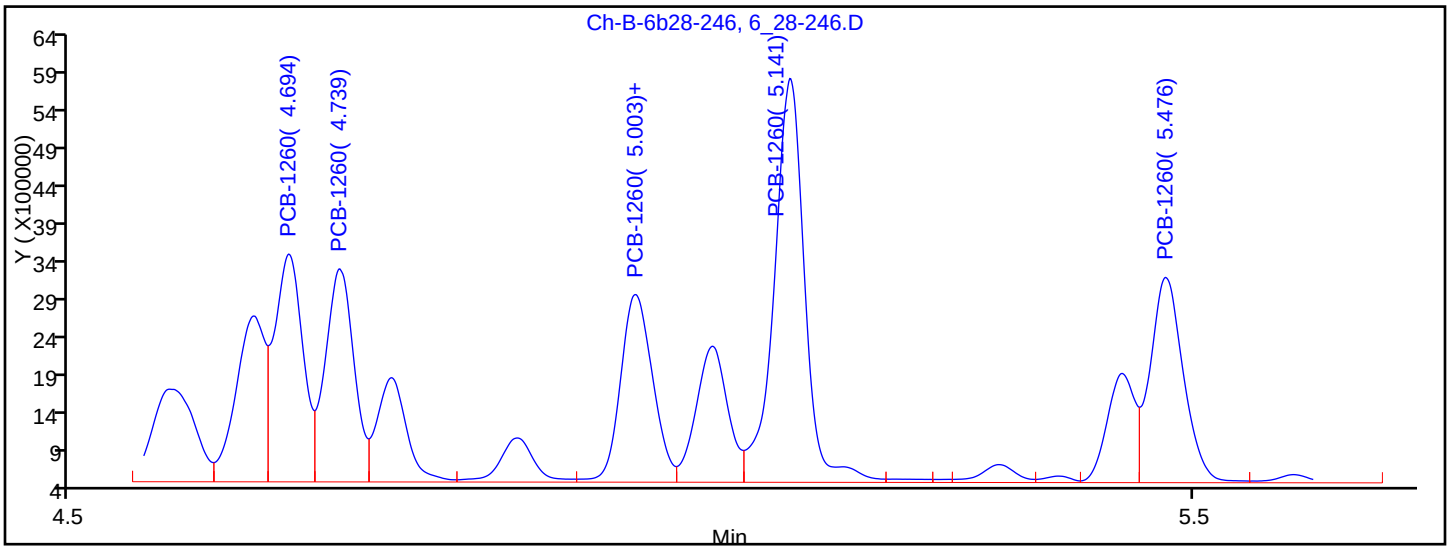
Injection Date:	24-Jul-2017 23:32:13	Instrument ID:	HP6890-6		
Lims ID:	480-121411-A-3-H MSD				
Client ID:	TP-15				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	6890-6 PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-B-7b136		

11 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.694	Response = 5511526
4.739	Response = 5253563
5.003	Response = 5386545
5.141	Response = 10684845
5.476	Response = 5929064



Manual Integration Results

4.694	Response = 5257570	M
4.739	Response = 4964356	M
5.003	Response = 4914188	M
5.141	Response = 10073585	M
5.476	Response = 5544788	M

Reviewer: owenj, 25-Jul-2017 10:56:28

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

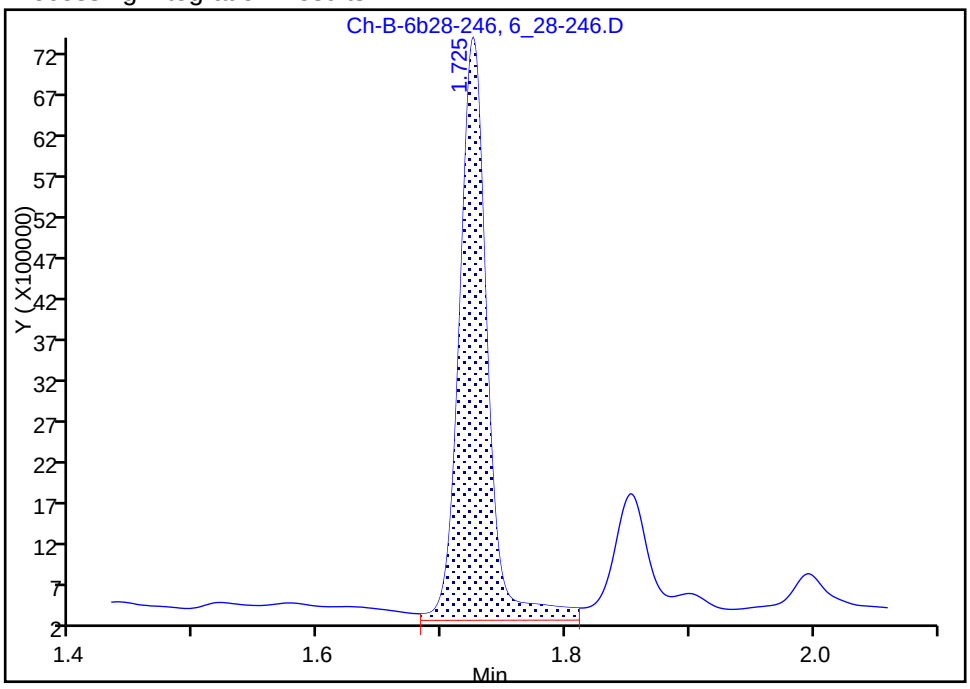
Data File: \\ChromNA\Buffalo\ChromData\HP6890-06\20170724-64278.b\6_28-246.D
Injection Date: 24-Jul-2017 23:32:13 Instrument ID: HP6890-6
Lims ID: 480-121411-A-3-H MSD
Client ID: TP-15
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 6890-6 PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

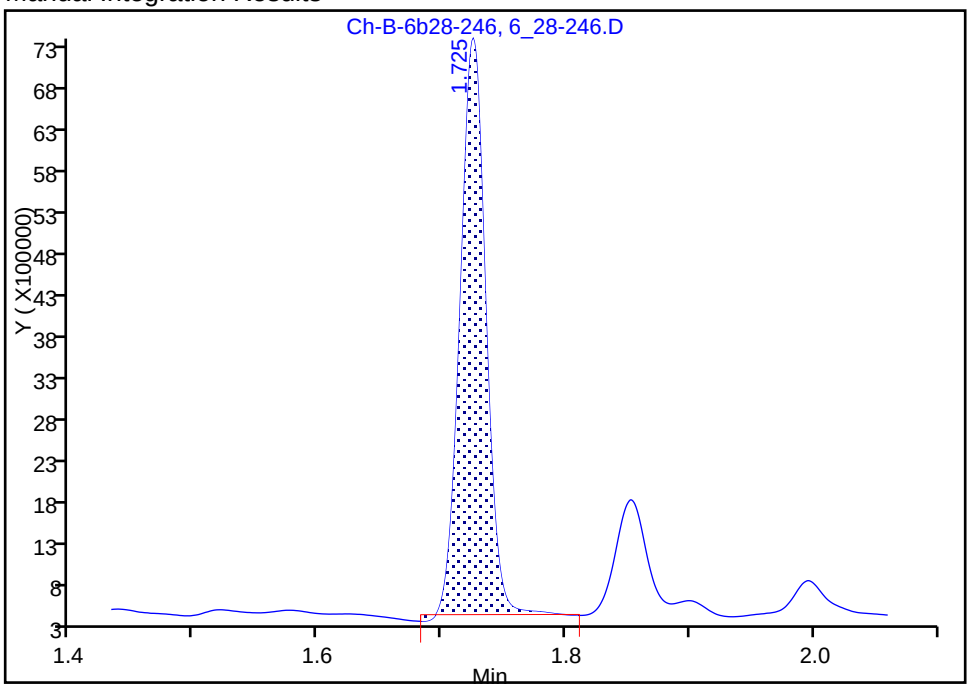
Processing Integration Results

RT: 1.73
Area: 11178848
Amount: 0.029532
Amount Units: ng/uL



Manual Integration Results

RT: 1.73
Area: 9951422
Amount: 0.026253
Amount Units: ng/uL



Reviewer: owenj, 25-Jul-2017 10:56:25
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 02/23/2017 01:02

Analysis Batch Number: 345014 End Date: 02/23/2017 08:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-345014/4		02/23/2017 01:02	1		ZB-5 0.53(mm)
IC 480-345014/4		02/23/2017 01:02	1		ZB-35 0.53(mm)
IC 480-345014/5		02/23/2017 01:18	1		ZB-5 0.53(mm)
IC 480-345014/5		02/23/2017 01:18	1		ZB-35 0.53(mm)
ICIS 480-345014/6		02/23/2017 01:33	1		ZB-5 0.53(mm)
ICIS 480-345014/6		02/23/2017 01:33	1		ZB-35 0.53(mm)
IC 480-345014/7		02/23/2017 01:49	1		ZB-5 0.53(mm)
IC 480-345014/7		02/23/2017 01:49	1		ZB-35 0.53(mm)
IC 480-345014/8		02/23/2017 02:05	1		ZB-5 0.53(mm)
IC 480-345014/8		02/23/2017 02:05	1		ZB-35 0.53(mm)
IC 480-345014/9		02/23/2017 02:21	1		ZB-5 0.53(mm)
IC 480-345014/9		02/23/2017 02:21	1		ZB-35 0.53(mm)
IC 480-345014/10		02/23/2017 02:37	1		ZB-5 0.53(mm)
IC 480-345014/10		02/23/2017 02:37	1		ZB-35 0.53(mm)
ICV 480-345014/11		02/23/2017 02:53	1		ZB-5 0.53(mm)
ICV 480-345014/11		02/23/2017 02:53	1		ZB-35 0.53(mm)
CCV 480-345014/12		02/23/2017 03:09	1		ZB-5 0.53(mm)
CCV 480-345014/12		02/23/2017 03:09	1		ZB-35 0.53(mm)
ZZZZZ		02/23/2017 03:25	1		ZB-5 0.53(mm)
ZZZZZ		02/23/2017 03:25	1		ZB-35 0.53(mm)
ZZZZZ		02/23/2017 03:41	1		ZB-5 0.53(mm)
ZZZZZ		02/23/2017 03:41	1		ZB-35 0.53(mm)
CCVL 480-345014/15		02/23/2017 03:57	0.02		ZB-5 0.53(mm)
CCVL 480-345014/15		02/23/2017 03:57	0.02		ZB-35 0.53(mm)
IC 480-345014/16		02/23/2017 04:13	1	6_20-172.D	ZB-5 0.53(mm)
IC 480-345014/16		02/23/2017 04:13	1	6_20-172.D	ZB-35 0.53(mm)
IC 480-345014/17		02/23/2017 04:29	1	6_20-173.D	ZB-5 0.53(mm)
IC 480-345014/17		02/23/2017 04:29	1	6_20-173.D	ZB-35 0.53(mm)
IC 480-345014/18		02/23/2017 04:45	1	6_20-174.D	ZB-5 0.53(mm)
IC 480-345014/18		02/23/2017 04:45	1	6_20-174.D	ZB-35 0.53(mm)
ICV 480-345014/19		02/23/2017 05:01	1		ZB-5 0.53(mm)
ICV 480-345014/19		02/23/2017 05:01	1		ZB-35 0.53(mm)
IC 480-345014/20		02/23/2017 05:17	1	6_20-176.D	ZB-5 0.53(mm)
IC 480-345014/20		02/23/2017 05:17	1	6_20-176.D	ZB-35 0.53(mm)
IC 480-345014/21		02/23/2017 05:33	1	6_20-177.D	ZB-5 0.53(mm)
IC 480-345014/21		02/23/2017 05:33	1	6_20-177.D	ZB-35 0.53(mm)
IC 480-345014/22		02/23/2017 05:49	1	6_20-178.D	ZB-5 0.53(mm)
IC 480-345014/22		02/23/2017 05:49	1	6_20-178.D	ZB-35 0.53(mm)
ICV 480-345014/23		02/23/2017 06:04	1		ZB-5 0.53(mm)
ICV 480-345014/23		02/23/2017 06:04	1		ZB-35 0.53(mm)
IC 480-345014/24		02/23/2017 06:20	1	6_20-180.D	ZB-5 0.53(mm)
IC 480-345014/24		02/23/2017 06:20	1	6_20-180.D	ZB-35 0.53(mm)
IC 480-345014/25		02/23/2017 06:36	1	6_20-181.D	ZB-5 0.53(mm)
IC 480-345014/25		02/23/2017 06:36	1	6_20-181.D	ZB-35 0.53(mm)
IC 480-345014/26		02/23/2017 06:52	1	6_20-182.D	ZB-5 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 02/23/2017 01:02

Analysis Batch Number: 345014 End Date: 02/23/2017 08:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-345014/26		02/23/2017 06:52	1	6_20-182.D	ZB-35 0.53(mm)
ICV 480-345014/27		02/23/2017 07:08	1		ZB-5 0.53(mm)
ICV 480-345014/27		02/23/2017 07:08	1		ZB-35 0.53(mm)
IC 480-345014/28		02/23/2017 07:24	1	6_20-184.D	ZB-5 0.53(mm)
IC 480-345014/28		02/23/2017 07:24	1	6_20-184.D	ZB-35 0.53(mm)
IC 480-345014/29		02/23/2017 07:40	1	6_20-185.D	ZB-5 0.53(mm)
IC 480-345014/29		02/23/2017 07:40	1	6_20-185.D	ZB-35 0.53(mm)
IC 480-345014/30		02/23/2017 07:56	1	6_20-186.D	ZB-5 0.53(mm)
IC 480-345014/30		02/23/2017 07:56	1	6_20-186.D	ZB-35 0.53(mm)
ICV 480-345014/31		02/23/2017 08:12	1		ZB-5 0.53(mm)
ICV 480-345014/31		02/23/2017 08:12	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 06/21/2017 11:38

Analysis Batch Number: 363130 End Date: 06/21/2017 14:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-363130/4		06/21/2017 11:38	1	6_27-048.D	ZB-5 0.53(mm)
IC 480-363130/4		06/21/2017 11:38	1	6_27-048.D	ZB-35 0.53(mm)
IC 480-363130/5		06/21/2017 11:54	1	6_27-049.D	ZB-5 0.53(mm)
IC 480-363130/5		06/21/2017 11:54	1	6_27-049.D	ZB-35 0.53(mm)
ICIS 480-363130/6		06/21/2017 12:10	1	6_27-050.D	ZB-5 0.53(mm)
ICIS 480-363130/6		06/21/2017 12:10	1	6_27-050.D	ZB-35 0.53(mm)
IC 480-363130/7		06/21/2017 12:25	1	6_27-051.D	ZB-5 0.53(mm)
IC 480-363130/7		06/21/2017 12:25	1	6_27-051.D	ZB-35 0.53(mm)
IC 480-363130/8		06/21/2017 12:41	1	6_27-052.D	ZB-5 0.53(mm)
IC 480-363130/8		06/21/2017 12:41	1	6_27-052.D	ZB-35 0.53(mm)
IC 480-363130/9		06/21/2017 12:57	1	6_27-053.D	ZB-5 0.53(mm)
IC 480-363130/9		06/21/2017 12:57	1	6_27-053.D	ZB-35 0.53(mm)
IC 480-363130/10		06/21/2017 13:13	1	6_27-054.D	ZB-5 0.53(mm)
IC 480-363130/10		06/21/2017 13:13	1	6_27-054.D	ZB-35 0.53(mm)
ICV 480-363130/11		06/21/2017 13:29	1		ZB-5 0.53(mm)
ICV 480-363130/11		06/21/2017 13:29	1		ZB-35 0.53(mm)
CCV 480-363130/12		06/21/2017 13:45	1		ZB-5 0.53(mm)
CCV 480-363130/12		06/21/2017 13:45	1		ZB-35 0.53(mm)
ZZZZZ		06/21/2017 14:01	1		ZB-5 0.53(mm)
ZZZZZ		06/21/2017 14:01	1		ZB-35 0.53(mm)
ZZZZZ		06/21/2017 14:17	1		ZB-5 0.53(mm)
ZZZZZ		06/21/2017 14:17	1		ZB-35 0.53(mm)
CCVL 480-363130/15		06/21/2017 14:33	0.02		ZB-5 0.53(mm)
CCVL 480-363130/15		06/21/2017 14:33	0.02		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 07/24/2017 14:48

Analysis Batch Number: 368358 End Date: 07/25/2017 05:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 480-368358/4		07/24/2017 14:48	1	6_28-232.D	ZB-5 0.53(mm)
CCVIS 480-368358/4		07/24/2017 14:48	1	6_28-232.D	ZB-35 0.53(mm)
CCV 480-368358/5		07/24/2017 15:04	1	6_28-233.D	ZB-5 0.53(mm)
CCV 480-368358/5		07/24/2017 15:04	1	6_28-233.D	ZB-35 0.53(mm)
CCV 480-368358/6		07/24/2017 15:20	1	6_28-234.D	ZB-5 0.53(mm)
CCV 480-368358/6		07/24/2017 15:20	1	6_28-234.D	ZB-35 0.53(mm)
CCV 480-368358/7		07/24/2017 15:36	1	6_28-235.D	ZB-5 0.53(mm)
CCV 480-368358/7		07/24/2017 15:36	1	6_28-235.D	ZB-35 0.53(mm)
CCV 480-368358/8		07/24/2017 15:52	1	6_28-236.D	ZB-5 0.53(mm)
CCV 480-368358/8		07/24/2017 15:52	1	6_28-236.D	ZB-35 0.53(mm)
ZZZZZ		07/24/2017 16:23	1		ZB-5 0.53(mm)
ZZZZZ		07/24/2017 16:23	1		ZB-35 0.53(mm)
ZZZZZ		07/24/2017 16:39	1		ZB-5 0.53(mm)
ZZZZZ		07/24/2017 16:39	1		ZB-35 0.53(mm)
ZZZZZ		07/24/2017 16:55	1		ZB-5 0.53(mm)
ZZZZZ		07/24/2017 16:55	1		ZB-35 0.53(mm)
ZZZZZ		07/24/2017 17:11	1		ZB-5 0.53(mm)
ZZZZZ		07/24/2017 17:11	1		ZB-35 0.53(mm)
ZZZZZ		07/24/2017 17:27	1		ZB-5 0.53(mm)
ZZZZZ		07/24/2017 17:27	1		ZB-35 0.53(mm)
MB 480-368288/1-A		07/24/2017 22:44	1	6_28-243.D	ZB-5 0.53(mm)
MB 480-368288/1-A		07/24/2017 22:44	1	6_28-243.D	ZB-35 0.53(mm)
LCS 480-368288/2-A		07/24/2017 23:00	1	6_28-244.D	ZB-5 0.53(mm)
LCS 480-368288/2-A		07/24/2017 23:00	1	6_28-244.D	ZB-35 0.53(mm)
480-121411-3 MS		07/24/2017 23:16	1	6_28-245.D	ZB-5 0.53(mm)
480-121411-3 MS		07/24/2017 23:16	1	6_28-245.D	ZB-35 0.53(mm)
480-121411-3 MSD		07/24/2017 23:32	1	6_28-246.D	ZB-5 0.53(mm)
480-121411-3 MSD		07/24/2017 23:32	1	6_28-246.D	ZB-35 0.53(mm)
480-121411-3		07/24/2017 23:48	1	6_28-247.D	ZB-5 0.53(mm)
480-121411-3		07/24/2017 23:48	1	6_28-247.D	ZB-35 0.53(mm)
480-121411-1		07/25/2017 00:03	1	6_28-248.D	ZB-5 0.53(mm)
480-121411-1		07/25/2017 00:03	1	6_28-248.D	ZB-35 0.53(mm)
480-121411-2		07/25/2017 00:19	1	6_28-249.D	ZB-5 0.53(mm)
480-121411-2		07/25/2017 00:19	1	6_28-249.D	ZB-35 0.53(mm)
ZZZZZ		07/25/2017 00:35	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 00:35	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 00:51	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 00:51	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 01:07	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 01:07	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 01:23	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 01:23	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 01:39	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 01:39	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 01:55	1		ZB-5 0.53(mm)

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PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-6 Start Date: 07/24/2017 14:48

Analysis Batch Number: 368358 End Date: 07/25/2017 05:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/25/2017 01:55	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 02:11	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 02:11	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 02:27	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 02:27	1		ZB-35 0.53(mm)
CCV 480-368358/30		07/25/2017 02:43	1		ZB-5 0.53(mm)
CCV 480-368358/30		07/25/2017 02:43	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 03:15	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 03:15	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 03:30	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 03:30	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 03:46	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 03:46	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 04:02	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 04:02	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 04:18	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 04:18	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 04:34	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 04:34	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 04:50	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 04:50	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 05:06	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 05:06	1		ZB-35 0.53(mm)
ZZZZZ		07/25/2017 05:22	1		ZB-5 0.53(mm)
ZZZZZ		07/25/2017 05:22	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 03/28/2017 12:44

Analysis Batch Number: 349118 End Date: 03/28/2017 19:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-349118/7		03/28/2017 12:44	1	7_28-020.D	ZB-5 0.53(mm)
IC 480-349118/7		03/28/2017 12:44	1	7_28-020.D	ZB-35 0.53(mm)
IC 480-349118/8		03/28/2017 13:00	1	7_28-021.D	ZB-5 0.53(mm)
IC 480-349118/8		03/28/2017 13:00	1	7_28-021.D	ZB-35 0.53(mm)
ICIS 480-349118/9		03/28/2017 13:16	1	7_28-022.D	ZB-5 0.53(mm)
ICIS 480-349118/9		03/28/2017 13:16	1	7_28-022.D	ZB-35 0.53(mm)
IC 480-349118/10		03/28/2017 13:32	1	7_28-023.D	ZB-5 0.53(mm)
IC 480-349118/10		03/28/2017 13:32	1	7_28-023.D	ZB-35 0.53(mm)
IC 480-349118/11		03/28/2017 13:48	1	7_28-024.D	ZB-5 0.53(mm)
IC 480-349118/11		03/28/2017 13:48	1	7_28-024.D	ZB-35 0.53(mm)
IC 480-349118/12		03/28/2017 14:04	1	7_28-025.D	ZB-5 0.53(mm)
IC 480-349118/12		03/28/2017 14:04	1	7_28-025.D	ZB-35 0.53(mm)
IC 480-349118/13		03/28/2017 14:20	1	7_28-026.D	ZB-5 0.53(mm)
IC 480-349118/13		03/28/2017 14:20	1	7_28-026.D	ZB-35 0.53(mm)
ICV 480-349118/14		03/28/2017 14:36	1		ZB-5 0.53(mm)
ICV 480-349118/14		03/28/2017 14:36	1		ZB-35 0.53(mm)
CCV 480-349118/15		03/28/2017 14:52	1		ZB-5 0.53(mm)
CCV 480-349118/15		03/28/2017 14:52	1		ZB-35 0.53(mm)
ZZZZZ		03/28/2017 15:08	1		ZB-5 0.53(mm)
ZZZZZ		03/28/2017 15:08	1		ZB-35 0.53(mm)
1016 pattern CCV		03/28/2017 15:24	1		ZB-5 0.53(mm)
1016 pattern CCV		03/28/2017 15:24	1		ZB-35 0.53(mm)
CCVL 480-349118/18		03/28/2017 15:40	0.02		ZB-5 0.53(mm)
CCVL 480-349118/18		03/28/2017 15:40	0.02		ZB-35 0.53(mm)
IC 480-349118/19		03/28/2017 15:56	1	7_28-032.D	ZB-5 0.53(mm)
IC 480-349118/19		03/28/2017 15:56	1	7_28-032.D	ZB-35 0.53(mm)
IC 480-349118/20		03/28/2017 16:12	1	7_28-033.D	ZB-5 0.53(mm)
IC 480-349118/20		03/28/2017 16:12	1	7_28-033.D	ZB-35 0.53(mm)
IC 480-349118/21		03/28/2017 16:28	1	7_28-034.D	ZB-5 0.53(mm)
IC 480-349118/21		03/28/2017 16:28	1	7_28-034.D	ZB-35 0.53(mm)
ICV 480-349118/22		03/28/2017 16:43	1		ZB-5 0.53(mm)
ICV 480-349118/22		03/28/2017 16:43	1		ZB-35 0.53(mm)
IC 480-349118/23		03/28/2017 16:59	1	7_28-036.D	ZB-5 0.53(mm)
IC 480-349118/23		03/28/2017 16:59	1	7_28-036.D	ZB-35 0.53(mm)
IC 480-349118/24		03/28/2017 17:15	1	7_28-037.D	ZB-5 0.53(mm)
IC 480-349118/24		03/28/2017 17:15	1	7_28-037.D	ZB-35 0.53(mm)
IC 480-349118/25		03/28/2017 17:31	1	7_28-038.D	ZB-5 0.53(mm)
IC 480-349118/25		03/28/2017 17:31	1	7_28-038.D	ZB-35 0.53(mm)
ICV 480-349118/26		03/28/2017 17:47	1		ZB-5 0.53(mm)
ICV 480-349118/26		03/28/2017 17:47	1		ZB-35 0.53(mm)
IC 480-349118/27		03/28/2017 18:03	1	7_28-040.D	ZB-5 0.53(mm)
IC 480-349118/27		03/28/2017 18:03	1	7_28-040.D	ZB-35 0.53(mm)
IC 480-349118/28		03/28/2017 18:19	1	7_28-041.D	ZB-5 0.53(mm)
IC 480-349118/28		03/28/2017 18:19	1	7_28-041.D	ZB-35 0.53(mm)
IC 480-349118/29		03/28/2017 18:35	1	7_28-042.D	ZB-5 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 03/28/2017 12:44

Analysis Batch Number: 349118 End Date: 03/28/2017 19:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-349118/29		03/28/2017 18:35	1	7_28-042.D	ZB-35 0.53(mm)
ICV 480-349118/30		03/28/2017 18:51	1		ZB-5 0.53(mm)
ICV 480-349118/30		03/28/2017 18:51	1		ZB-35 0.53(mm)
IC 480-349118/31		03/28/2017 19:07	1	7_28-044.D	ZB-5 0.53(mm)
IC 480-349118/31		03/28/2017 19:07	1	7_28-044.D	ZB-35 0.53(mm)
IC 480-349118/32		03/28/2017 19:23	1	7_28-045.D	ZB-5 0.53(mm)
IC 480-349118/32		03/28/2017 19:23	1	7_28-045.D	ZB-35 0.53(mm)
IC 480-349118/33		03/28/2017 19:39	1	7_28-046.D	ZB-5 0.53(mm)
IC 480-349118/33		03/28/2017 19:39	1	7_28-046.D	ZB-35 0.53(mm)
ICV 480-349118/34		03/28/2017 19:55	1		ZB-5 0.53(mm)
ICV 480-349118/34		03/28/2017 19:55	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 07/26/2017 11:58

Analysis Batch Number: 368775 End Date: 07/26/2017 18:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 480-368775/6		07/26/2017 11:58	1	7_36-220.D	ZB-5 0.53(mm)
CCVIS 480-368775/6		07/26/2017 11:58	1	7_36-220.D	ZB-35 0.53(mm)
CCV 480-368775/7		07/26/2017 12:14	1	7_36-221.D	ZB-5 0.53(mm)
CCV 480-368775/7		07/26/2017 12:14	1	7_36-221.D	ZB-35 0.53(mm)
CCV 480-368775/8		07/26/2017 12:30	1	7_36-222.D	ZB-5 0.53(mm)
CCV 480-368775/8		07/26/2017 12:30	1	7_36-222.D	ZB-35 0.53(mm)
CCV 480-368775/9		07/26/2017 12:47	1	7_36-223.D	ZB-5 0.53(mm)
CCV 480-368775/9		07/26/2017 12:47	1	7_36-223.D	ZB-35 0.53(mm)
CCV 480-368775/10		07/26/2017 13:03	1	7_36-224.D	ZB-5 0.53(mm)
CCV 480-368775/10		07/26/2017 13:03	1	7_36-224.D	ZB-35 0.53(mm)
MB 480-368612/1-A		07/26/2017 13:35	1	7_36-226.D	ZB-5 0.53(mm)
MB 480-368612/1-A		07/26/2017 13:35	1	7_36-226.D	ZB-35 0.53(mm)
LCS 480-368612/2-A		07/26/2017 13:51	1	7_36-227.D	ZB-5 0.53(mm)
LCS 480-368612/2-A		07/26/2017 13:51	1	7_36-227.D	ZB-35 0.53(mm)
ZZZZZ		07/26/2017 14:07	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 14:07	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 14:23	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 14:23	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 14:39	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 14:39	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 14:55	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 14:55	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 15:11	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 15:11	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 15:27	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 15:27	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 15:43	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 15:43	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 16:00	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 16:00	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 16:16	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 16:16	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 16:32	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 16:32	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 16:48	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 16:48	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 17:04	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 17:04	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 17:20	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 17:20	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 17:36	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 17:36	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 17:52	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 17:52	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 18:08	1		ZB-5 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 07/26/2017 11:58

Analysis Batch Number: 368775 End Date: 07/26/2017 18:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/26/2017 18:08	1		ZB-35 0.53(mm)
480-121411-4		07/26/2017 18:24	1	7_36-244.D	ZB-5 0.53(mm)
480-121411-4		07/26/2017 18:24	1	7_36-244.D	ZB-35 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368288 Batch Start Date: 07/24/17 07:43 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00100	O_8082spike 00059	
MB 480-368288/1		3550C, 8082A		CALC NOT SET TO RUN	2.88 g	10 mL	1 mL		
LCS 480-368288/2		3550C, 8082A		CALC NOT SET TO RUN	2.67 g	10 mL	1 mL	1 mL	
480-121411-A-3 MS	TP-15	3550C, 8082A	T	CALC NOT SET TO RUN	2.56 g	10 mL	1 mL	1 mL	
480-121411-A-3 MSD	TP-15	3550C, 8082A	T	CALC NOT SET TO RUN	2.20 g	10 mL	1 mL	1 mL	
480-121411-A-3	TP-15	3550C, 8082A	T	CALC NOT SET TO RUN	2.36 g	10 mL	1 mL		
480-121411-A-1	TP-07	3550C, 8082A	T	CALC NOT SET TO RUN	2.17 g	10 mL	1 mL		
480-121411-A-2	TP-09	3550C, 8082A	T	CALC NOT SET TO RUN	2.25 g	10 mL	1 mL		

Batch Notes	
Acid used for Clean Up ID	Sulfuric; 3829039 BK 7/24/17
Blank Soil Lot Number	3934403; Gauze lot # A19115
Analyst ID - Clean Up	BK
Na2SO4 ID	3934403
Nominal Amount Used	1 g
Prep Solvent ID	4123568
Prep Solvent Name	Hexane
Prep Solvent Volume Used	10
Analyst ID - Reagent Drop Witness	BK
Perform Calculation (0=No, 1=Yes)	0

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368612 Batch Start Date: 07/25/17 14:15 Batch Analyst: Palermo, Stephan M

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00100	O_8082spike 00059	
MB 480-368612/1		3550C, 8082A		CALC NOT SET TO RUN	2.24 g	10 mL	1 mL		
LCS 480-368612/2		3550C, 8082A		CALC NOT SET TO RUN	2.21 g	10 mL	1 mL	1 mL	
480-121411-C-4	DUP	3550C, 8082A	T	CALC NOT SET TO RUN	2.35 g	10 mL	1 mL		

Batch Notes	
Acid used for Clean Up ID	Sulfuric; 3829039 SP 7/25/17
Blank Soil Lot Number	3934403; Gauze lot # A19115
Analyst ID - Clean Up	SP
Na2SO4 ID	3934403
Nominal Amount Used	1 g
Prep Solvent ID	4123568
Prep Solvent Name	Hexane
Prep Solvent Volume Used	10
Analyst ID - Reagent Drop Witness	SP
Perform Calculation (0=No, 1=Yes)	0

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG No.:

Project: Nash Rd. Wheatfield #932054

Client Sample ID	Lab Sample ID
TP-07	480-121411-1
TP-09	480-121411-2
TP-15	480-121411-3
DUP	480-121411-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-07 | Lab Sample ID: 480-121411-1

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/20/2017 09:00

Reporting Basis: DRY | Date Received: 07/20/2017 17:00

% Solids: 79.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	15100	13.2	5.8	mg/Kg			1	6010C
7440-36-0	Antimony	6.9	19.8	0.53	mg/Kg	J		1	6010C
7440-38-2	Arsenic	4.2	2.6	0.53	mg/Kg			1	6010C
7440-39-3	Barium	160	0.66	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.62	0.26	0.037	mg/Kg			1	6010C
7440-43-9	Cadmium	4.0	0.26	0.040	mg/Kg		B	1	6010C
7440-70-2	Calcium	10400	66.0	4.4	mg/Kg		B	1	6010C
7440-47-3	Chromium	46.1	0.66	0.26	mg/Kg			1	6010C
7440-48-4	Cobalt	8.9	0.66	0.066	mg/Kg			1	6010C
7440-50-8	Copper	214	1.3	0.28	mg/Kg			1	6010C
7439-89-6	Iron	20000	13.2	4.6	mg/Kg			1	6010C
7439-92-1	Lead	340	1.3	0.32	mg/Kg			1	6010C
7439-95-4	Magnesium	5390	26.4	1.2	mg/Kg			1	6010C
7439-96-5	Manganese	362	0.26	0.042	mg/Kg		B	1	6010C
7440-02-0	Nickel	101	6.6	0.30	mg/Kg			1	6010C
7440-09-7	Potassium	1590	39.6	26.4	mg/Kg			1	6010C
7782-49-2	Selenium	ND	5.3	0.53	mg/Kg			1	6010C
7440-22-4	Silver	12.9	0.79	0.26	mg/Kg			1	6010C
7440-23-5	Sodium	222	185	17.2	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.9	0.40	mg/Kg			1	6010C
7440-62-2	Vanadium	25.8	0.66	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	349	2.6	0.84	mg/Kg		B	1	6010C
7439-97-6	Mercury	0.23	0.024	0.0097	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-09 | Lab Sample ID: 480-121411-2

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/20/2017 10:30

Reporting Basis: DRY | Date Received: 07/20/2017 17:00

% Solids: 82.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5270	13.2	5.8	mg/Kg			1	6010C
7440-36-0	Antimony	ND	19.8	0.53	mg/Kg			1	6010C
7440-38-2	Arsenic	2.0	2.6	0.53	mg/Kg	J		1	6010C
7440-39-3	Barium	151	0.66	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.22	0.26	0.037	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.19	0.26	0.040	mg/Kg	J	B	1	6010C
7440-70-2	Calcium	44800	66.1	4.4	mg/Kg		B	1	6010C
7440-47-3	Chromium	8.4	0.66	0.26	mg/Kg			1	6010C
7440-48-4	Cobalt	3.4	0.66	0.066	mg/Kg			1	6010C
7440-50-8	Copper	7.5	1.3	0.28	mg/Kg			1	6010C
7439-89-6	Iron	10700	13.2	4.6	mg/Kg			1	6010C
7439-92-1	Lead	6.5	1.3	0.32	mg/Kg			1	6010C
7439-95-4	Magnesium	17000	26.4	1.2	mg/Kg			1	6010C
7439-96-5	Manganese	392	0.26	0.042	mg/Kg		B	1	6010C
7440-02-0	Nickel	8.0	6.6	0.30	mg/Kg			1	6010C
7440-09-7	Potassium	1460	39.7	26.4	mg/Kg			1	6010C
7782-49-2	Selenium	ND	5.3	0.53	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.79	0.26	mg/Kg			1	6010C
7440-23-5	Sodium	180	185	17.2	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	7.9	0.40	mg/Kg			1	6010C
7440-62-2	Vanadium	20.3	0.66	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	38.4	2.6	0.85	mg/Kg		B	1	6010C
7439-97-6	Mercury	0.039	0.024	0.0096	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-15 | Lab Sample ID: 480-121411-3

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/20/2017 15:00

Reporting Basis: DRY | Date Received: 07/20/2017 17:00

% Solids: 83.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	8590	11.3	5.0	mg/Kg			1	6010C
7440-36-0	Antimony	ND	16.9	0.45	mg/Kg			1	6010C
7440-38-2	Arsenic	3.1	2.3	0.45	mg/Kg			1	6010C
7440-39-3	Barium	34.6	0.56	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.33	0.23	0.032	mg/Kg			1	6010C
7440-43-9	Cadmium	0.12	0.23	0.034	mg/Kg	J	B	1	6010C
7440-70-2	Calcium	37400	56.4	3.7	mg/Kg		B	1	6010C
7440-47-3	Chromium	11.2	0.56	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	4.5	0.56	0.056	mg/Kg			1	6010C
7440-50-8	Copper	10.9	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	11700	11.3	3.9	mg/Kg			1	6010C
7439-92-1	Lead	11.7	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	11900	22.5	1.0	mg/Kg			1	6010C
7439-96-5	Manganese	289	0.23	0.036	mg/Kg		B	1	6010C
7440-02-0	Nickel	12.4	5.6	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1470	33.8	22.5	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.5	0.45	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.68	0.23	mg/Kg			1	6010C
7440-23-5	Sodium	140	158	14.7	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	6.8	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	21.0	0.56	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	38.4	2.3	0.72	mg/Kg		B	1	6010C
7439-97-6	Mercury	0.022	0.024	0.0098	mg/Kg	J		1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP
Lab Sample ID: 480-121411-4
Lab Name: TestAmerica Buffalo
Job No.: 480-121411-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/20/2017 00:00
Reporting Basis: DRY
Date Received: 07/20/2017 17:00
% Solids: 78.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	11800	13.8	6.1	mg/Kg			1	6010C
7440-36-0	Antimony	7.5	20.6	0.55	mg/Kg	J		1	6010C
7440-38-2	Arsenic	7.0	2.8	0.55	mg/Kg			1	6010C
7440-39-3	Barium	213	0.69	0.15	mg/Kg			1	6010C
7440-41-7	Beryllium	0.48	0.28	0.039	mg/Kg			1	6010C
7440-43-9	Cadmium	7.4	0.28	0.041	mg/Kg		B	1	6010C
7440-70-2	Calcium	30500	68.8	4.5	mg/Kg		B	1	6010C
7440-47-3	Chromium	38.9	0.69	0.28	mg/Kg			1	6010C
7440-48-4	Cobalt	7.2	0.69	0.069	mg/Kg			1	6010C
7440-50-8	Copper	998	1.4	0.29	mg/Kg			1	6010C
7439-89-6	Iron	25400	13.8	4.8	mg/Kg			1	6010C
7439-92-1	Lead	193	1.4	0.33	mg/Kg			1	6010C
7439-95-4	Magnesium	12900	27.5	1.3	mg/Kg			1	6010C
7439-96-5	Manganese	530	0.28	0.044	mg/Kg		B	1	6010C
7440-02-0	Nickel	45.9	6.9	0.32	mg/Kg			1	6010C
7440-09-7	Potassium	1170	41.3	27.5	mg/Kg			1	6010C
7782-49-2	Selenium	0.78	5.5	0.55	mg/Kg	J		1	6010C
7440-22-4	Silver	8.9	0.83	0.28	mg/Kg			1	6010C
7440-23-5	Sodium	220	193	17.9	mg/Kg			1	6010C
7440-28-0	Thallium	ND	8.3	0.41	mg/Kg			1	6010C
7440-62-2	Vanadium	21.3	0.69	0.15	mg/Kg			1	6010C
7440-66-6	Zinc	435	2.8	0.88	mg/Kg		B	1	6010C
7439-97-6	Mercury	0.29	0.024	0.0098	mg/Kg			1	7471B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

ICV Source: MEI_04_ICV_00338 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00254

Analyte	ICV 480-368988/5 07/26/2017 10:30				CCV 480-368988/17 07/26/2017 15:25				CCV 480-368988/29 07/26/2017 16:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	18.97		18.8	101	25.31		25.0	101	25.22		25.0	101
Antimony	0.376		0.375	100	0.508		0.500	102	0.508		0.500	102
Arsenic	0.376		0.375	100	0.498		0.500	100	0.491		0.500	98
Barium	0.378		0.375	101	0.508		0.500	102	0.514		0.500	103
Beryllium	0.385		0.375	103	0.515		0.500	103	0.518		0.500	104
Cadmium	0.378		0.375	101	0.510		0.500	102	0.511		0.500	102
Calcium	19.04		18.8	102	25.02		25.0	100	25.04		25.0	100
Chromium	0.384		0.375	102	0.511		0.500	102	0.503		0.500	101
Cobalt	0.371		0.375	99	0.498		0.500	100	0.499		0.500	100
Copper	0.383		0.375	102	0.524		0.500	105	0.535		0.500	107
Iron	18.87		18.8	101	24.56		25.0	98	24.54		25.0	98
Lead	0.374		0.375	100	0.499		0.500	100	0.498		0.500	100
Magnesium	18.99		18.8	101	25.54		25.0	102	25.62		25.0	102
Manganese	0.390		0.375	104	0.532		0.500	106	0.530		0.500	106
Nickel	0.378		0.375	101	0.506		0.500	101	0.508		0.500	102
Potassium	19.15		18.8	102	25.76		25.0	103	26.24		25.0	105
Selenium	0.376		0.375	100	0.501		0.500	100	0.493		0.500	99
Silver	0.367		0.375	98	0.499		0.500	100	0.490		0.500	98
Sodium	18.89		18.8	101	25.36		25.0	101	25.71		25.0	103
Thallium	0.378		0.375	101	0.501		0.500	100	0.496		0.500	99
Vanadium	0.378		0.375	101	0.509		0.500	102	0.502		0.500	100
Zinc	0.397		0.375	106	0.507		0.500	101	0.505		0.500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

ICV Source: MEI_04_ICV_00338 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00254

Analyte	CCV 480-368988/39 07/26/2017 16:47											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	25.17		25.0	101								
Antimony	0.508		0.500	102								
Arsenic	0.489		0.500	98								
Barium	0.509		0.500	102								
Beryllium	0.515		0.500	103								
Cadmium	0.508		0.500	102								
Calcium	24.90		25.0	100								
Chromium	0.501		0.500	100								
Cobalt	0.497		0.500	99								
Copper	0.531		0.500	106								
Iron	24.40		25.0	98								
Lead	0.496		0.500	99								
Magnesium	25.40		25.0	102								
Manganese	0.526		0.500	105								
Nickel	0.506		0.500	101								
Potassium	26.10		25.0	104								
Selenium	0.496		0.500	99								
Silver	0.490		0.500	98								
Sodium	25.63		25.0	103								
Thallium	0.495		0.500	99								
Vanadium	0.499		0.500	100								
Zinc	0.501		0.500	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

ICV Source: MEI_10_CCVL_00149 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00149

Analyte	ICVL 480-368988/7 07/26/2017 10:37				CCVL 480-368988/19 07/26/2017 15:32				CCVL 480-368988/31 07/26/2017 16:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.213		0.200	107	0.215		0.200	107	0.215		0.200	107
Antimony	0.0203		0.0200	102	0.0212		0.0200	106	0.0215		0.0200	107
Arsenic	0.0156		0.0150	104	0.0147	J	0.0150	98	0.0156		0.0150	104
Barium	0.00212		0.00200	106	0.00358		0.00200	179	0.00246		0.00200	123
Beryllium	0.00208		0.00200	104	0.00212		0.00200	106	0.00219		0.00200	110
Cadmium	0.00214		0.00200	107	0.00225		0.00200	113	0.00215		0.00200	108
Calcium	0.512		0.500	102	0.501		0.500	100	0.518		0.500	104
Chromium	0.00437		0.00400	109	0.00492		0.00400	123	0.00446		0.00400	112
Cobalt	0.00386	J	0.00400	97	0.00359	J	0.00400	90	0.00380	J	0.00400	95
Copper	0.0105		0.0100	105	0.0125		0.0100	125	0.0116		0.0100	116
Iron	0.0526		0.0500	105	0.0483	J	0.0500	97	0.0560		0.0500	112
Lead	0.0100		0.0100	100	0.00999	J	0.0100	100	0.00972	J	0.0100	97
Magnesium	0.206		0.200	103	0.207		0.200	103	0.213		0.200	106
Manganese	0.00307		0.00300	102	0.00910		0.00300	303	0.00371		0.00300	124
Nickel	0.00964	J	0.0100	96	0.00959	J	0.0100	96	0.00979	J	0.0100	98
Potassium	0.542		0.500	108	0.503		0.500	101	0.542		0.500	108
Selenium	0.0278		0.0250	111	0.0218	J	0.0250	87	0.0290		0.0250	116
Silver	0.00585	J	0.00600	98	0.00485	J	0.00600	81	0.00488	J	0.00600	81
Sodium	1.02		1.00	102	1.06		1.00	106	1.05		1.00	105
Thallium	0.0204		0.0200	102	0.0201		0.0200	101	0.0199	J	0.0200	100
Vanadium	0.00494	J	0.00500	99	0.00476	J	0.00500	95	0.00507		0.00500	101
Zinc	0.0106		0.0100	106	0.0108		0.0100	108	0.0111		0.0100	111

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

ICV Source: MEI_10_CCVL_00149 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00149

Analyte	CCVL 480-368988/41 07/26/2017 16:54											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.208		0.200	104								
Antimony	0.0208		0.0200	104								
Arsenic	0.0162		0.0150	108								
Barium	0.00227		0.00200	114								
Beryllium	0.00213		0.00200	107								
Cadmium	0.00207		0.00200	104								
Calcium	0.515		0.500	103								
Chromium	0.00449		0.00400	112								
Cobalt	0.00382	J	0.00400	96								
Copper	0.0107		0.0100	107								
Iron	0.0541		0.0500	108								
Lead	0.0100		0.0100	100								
Magnesium	0.215		0.200	107								
Manganese	0.00342		0.00300	114								
Nickel	0.00985	J	0.0100	99								
Potassium	0.555		0.500	111								
Selenium	0.0263		0.0250	105								
Silver	0.00596	J	0.00600	99								
Sodium	1.05		1.00	105								
Thallium	0.0210		0.0200	105								
Vanadium	0.00499	J	0.00500	100								
Zinc	0.0116		0.0100	116								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

ICV Source: MEI_04_ICV_00338 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00254

Analyte	ICV 480-369045/5 07/27/2017 07:59				CCV 480-369045/19 07/27/2017 10:10				CCV 480-369045/23 07/27/2017 10:50			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	18.85		18.8	101	25.00		25.0	100	24.96		25.0	100
Antimony	0.374		0.375	100	0.498		0.500	100	0.496		0.500	99
Arsenic	0.377		0.375	101	0.501		0.500	100	0.499		0.500	100
Barium	0.377		0.375	101	0.490		0.500	98	0.490		0.500	98
Beryllium	0.382		0.375	102	0.500		0.500	100	0.494		0.500	99
Cadmium	0.378		0.375	101	0.499		0.500	100	0.498		0.500	100
Calcium	18.82		18.8	100	24.79		25.0	99	24.74		25.0	99
Chromium	0.386		0.375	103	0.514		0.500	103	0.509		0.500	102
Cobalt	0.370		0.375	99	0.493		0.500	99	0.493		0.500	99
Copper	0.384		0.375	102	0.492		0.500	98	0.490		0.500	98
Iron	18.54		18.8	99	24.23		25.0	97	24.06		25.0	96
Lead	0.374		0.375	100	0.498		0.500	100	0.498		0.500	100
Magnesium	18.87		18.8	101	24.94		25.0	100	24.95		25.0	100
Manganese	0.389		0.375	104	0.511		0.500	102	0.510		0.500	102
Nickel	0.375		0.375	100	0.498		0.500	100	0.497		0.500	99
Potassium	18.83		18.8	100	24.17		25.0	97	23.93		25.0	96
Selenium	0.373		0.375	99	0.509		0.500	102	0.504		0.500	101
Silver	0.368		0.375	98	0.515		0.500	103	0.513		0.500	103
Sodium	18.74		18.8	100	24.59		25.0	98	24.27		25.0	97
Thallium	0.382		0.375	102	0.491		0.500	98	0.492		0.500	98
Vanadium	0.375		0.375	100	0.521		0.500	104	0.517		0.500	103
Zinc	0.388		0.375	103	0.518		0.500	104	0.515		0.500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

ICV Source: MEI_10_CCVL_00149 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00149

Analyte	ICVL 480-369045/7 07/27/2017 08:06				CCVL 480-369045/21 07/27/2017 10:16				CCVL 480-369045/25 07/27/2017 10:56			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.205		0.200	103	0.210		0.200	105	0.190	J	0.200	95
Antimony	0.0202		0.0200	101	0.0192	J	0.0200	96	0.0208		0.0200	104
Arsenic	0.0186		0.0150	124	0.0168		0.0150	112	0.0164		0.0150	109
Barium	0.00212		0.00200	106	0.00204		0.00200	102	0.00204		0.00200	102
Beryllium	0.00212		0.00200	106	0.00203		0.00200	102	0.00213		0.00200	107
Cadmium	0.00210		0.00200	105	0.00210		0.00200	105	0.00217		0.00200	109
Calcium	0.504		0.500	101	0.504		0.500	101	0.498	J	0.500	100
Chromium	0.00435		0.00400	109	0.00411		0.00400	103	0.00415		0.00400	104
Cobalt	0.00408		0.00400	102	0.00400		0.00400	100	0.00406		0.00400	102
Copper	0.00986	J	0.0100	99	0.00906	J	0.0100	91	0.00885	J	0.0100	89
Iron	0.0488	J	0.0500	98	0.0468	J	0.0500	94	0.0485	J	0.0500	97
Lead	0.0106		0.0100	106	0.0106		0.0100	106	0.0105		0.0100	105
Magnesium	0.200		0.200	100	0.206		0.200	103	0.200		0.200	100
Manganese	0.00310		0.00300	103	0.00309		0.00300	103	0.00311		0.00300	104
Nickel	0.00995	J	0.0100	100	0.00954	J	0.0100	95	0.00946	J	0.0100	95
Potassium	0.527		0.500	105	0.453	J	0.500	91	0.467	J	0.500	93
Selenium	0.0257		0.0250	103	0.0228	J	0.0250	91	0.0263		0.0250	105
Silver	0.00589	J	0.00600	98	0.00518	J	0.00600	86	0.00533	J	0.00600	89
Sodium	0.997	J	1.00	100	0.982	J	1.00	98	0.969	J	1.00	97
Thallium	0.0225		0.0200	112	0.0215		0.0200	108	0.0218		0.0200	109
Vanadium	0.00485	J	0.00500	97	0.00471	J	0.00500	94	0.00487	J	0.00500	97
Zinc	0.0106		0.0100	106	0.0119		0.0100	119	0.0114		0.0100	114

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

ICV Source: MEH_HG1_WKG_01536 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_01536

Analyte	ICV 480-368435/1 07/24/2017 14:38				ICVL 480-368435/3 07/24/2017 14:42				CCV 480-368435/4 07/24/2017 14:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00283		0.00300	94	0.000202		0.000200	101	0.00195		0.00200	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

ICV Source: MEH_HG1_WKG_01536 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_01536

Analyte	CCV 480-368435/16 07/24/2017 15:02				CCV 480-368435/28 07/24/2017 15:21				CCVL 480-368435/37 07/24/2017 15:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00191		0.00200	96	0.00190		0.00200	95	0.000173	J	0.000200	87

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-368988/6 07/26/2017 10:33		CCB 480-368988/18 07/26/2017 15:29		CCB 480-368988/30 07/26/2017 16:09		CCB 480-368988/40 07/26/2017 16:51	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		0.00117	J	ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		0.00618		0.00100	J	ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-369045/6 07/27/2017 08:02		CCB 480-369045/20 07/27/2017 10:13		CCB 480-369045/24 07/27/2017 10:53			
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND			
Antimony	0.020	ND		ND		ND			
Arsenic	0.015	ND		ND		ND			
Barium	0.0020	ND		ND		ND			
Beryllium	0.0020	ND		ND		ND			
Cadmium	0.0020	ND		ND		ND			
Calcium	0.50	ND		ND		ND			
Chromium	0.0040	ND		ND		ND			
Cobalt	0.0040	ND		ND		ND			
Copper	0.010	ND		ND		ND			
Iron	0.050	ND		ND		ND			
Lead	0.010	ND		ND		ND			
Magnesium	0.20	ND		ND		ND			
Manganese	0.0030	ND		ND		ND			
Nickel	0.010	ND		ND		ND			
Potassium	0.50	ND		ND		ND			
Selenium	0.025	ND		ND		ND			
Silver	0.0060	ND		ND		ND			
Sodium	1.0	ND		ND		ND			
Thallium	0.020	ND		ND		ND			
Vanadium	0.0050	ND		ND		ND			
Zinc	0.010	0.00198	J	ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-368435/2 07/24/2017 14:40		CCB 480-368435/5 07/24/2017 14:45		CCB 480-368435/17 07/24/2017 15:04		CCB 480-368435/29 07/24/2017 15:23	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-368425/1-A

Instrument Code: ICAP2 Batch No.: 369045

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	0.0369	J		6010C
7440-70-2	Calcium	8.18	J		6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	0.0784	J		6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	1.01	J		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-368382/1-A

Instrument Code: LEEMAN2 Batch No.: 368435

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: ICSA 480-368988/8 Instrument ID: ICAP2

Lab File ID: I2072617A-5.asc ICS Source: MEI_07_ICSA_00101

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**512**	**102**
Antimony		**0.0027**	
Arsenic		**0.0036**	
Barium		**0.0007**	
Beryllium		**-0.0001**	
Cadmium		**-0.0003**	
Calcium	**500**	**476**	**95**
Chromium		**-0.0005**	
Cobalt		**-0.0007**	
Copper		**-0.0037**	
Iron	**200**	**190**	**95**
Lead		**-0.0036**	
Magnesium	**500**	**526**	**105**
Manganese		**0.0003**	
Nickel		**-0.0023**	
Potassium		**0.0285**	
Selenium		**0.0041**	
Silver		**-0.0020**	
Sodium		**0.0474**	
Thallium		**-0.0025**	
Vanadium		**0.0017**	
Zinc		**0.0057**	
Boron		*-0.0007*	
Lithium		*-0.0184*	
Molybdenum		*-0.0015*	
Tin		*0.0030*	
Titanium		*-0.0004*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: ICSAB 480-368988/9 Instrument ID: ICAP2

Lab File ID: I2072617A-5.asc ICS Source: MEI_08_ICSAB_00114

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**535**	**107**
Antimony	**0.600**	**0.602**	**100**
Arsenic	**0.100**	**0.107**	**107**
Barium	**0.500**	**0.500**	**100**
Beryllium	**0.501**	**0.511**	**102**
Cadmium	**1.00**	**1.02**	**102**
Calcium	**500**	**480**	**96**
Chromium	**0.500**	**0.487**	**97**
Cobalt	**0.500**	**0.494**	**99**
Copper	**0.501**	**0.533**	**106**
Iron	**100**	**97.1**	**97**
Lead	**0.0501**	**0.0501**	**100**
Magnesium	**500**	**547**	**109**
Manganese	**0.501**	**0.506**	**101**
Nickel	**1.00**	**0.980**	**98**
Potassium		**0.0514**	
Selenium	**0.0501**	**0.0493**	**98**
Silver	**0.200**	**0.221**	**111**
Sodium		**0.176**	
Thallium	**0.100**	**0.0989**	**99**
Vanadium	**0.501**	**0.509**	**102**
Zinc	**1.00**	**0.934**	**93**
Boron		*0.0028*	
Lithium	*0.501*	*0.496*	*99*
Molybdenum		*-0.0006*	
Strontium	*0.500*	*0.486*	*97*
Tin		*0.0027*	
Titanium		*0.0010*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: ICSA 480-369045/8 Instrument ID: ICAP2

Lab File ID: I2072717A-3.asc ICS Source: MEI_07_ICSA_00101

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**504**	**101**
Antimony		**0.0014**	
Arsenic		**-0.0012**	
Barium		**0.0008**	
Beryllium		**-0.0001**	
Cadmium		**-0.0002**	
Calcium	**500**	**469**	**94**
Chromium		**0.0004**	
Cobalt		**-0.0006**	
Copper		**-0.0064**	
Iron	**200**	**188**	**94**
Lead		**0.0010**	
Magnesium	**500**	**517**	**103**
Manganese		**0.0003**	
Nickel		**-0.0017**	
Potassium		**0.0611**	
Selenium		**0.0025**	
Silver		**-0.0010**	
Sodium		**0.0423**	
Thallium		**0.0003**	
Vanadium		**0.0018**	
Zinc		**0.0062**	
Boron		*-0.0017*	
Lithium		*-0.0221*	
Molybdenum		*-0.0013*	
Tin		*0.0006*	
Titanium		*0.0012*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Lab Sample ID: ICSAB 480-369045/9 Instrument ID: ICAP2

Lab File ID: I2072717A-3.asc ICS Source: MEI_08_ICSAB_00114

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**532**	**106**
Antimony	**0.600**	**0.592**	**99**
Arsenic	**0.100**	**0.109**	**109**
Barium	**0.500**	**0.495**	**99**
Beryllium	**0.501**	**0.503**	**100**
Cadmium	**1.00**	**1.00**	**100**
Calcium	**500**	**471**	**94**
Chromium	**0.500**	**0.485**	**97**
Cobalt	**0.500**	**0.491**	**98**
Copper	**0.501**	**0.519**	**104**
Iron	**100**	**95.7**	**95**
Lead	**0.0501**	**0.0498**	**99**
Magnesium	**500**	**540**	**108**
Manganese	**0.501**	**0.502**	**100**
Nickel	**1.00**	**0.970**	**97**
Potassium		**0.0111**	
Selenium	**0.0501**	**0.0539**	**108**
Silver	**0.200**	**0.222**	**111**
Sodium		**0.165**	
Thallium	**0.100**	**0.0957**	**96**
Vanadium	**0.501**	**0.513**	**102**
Zinc	**1.00**	**0.940**	**94**
Boron		*0.0011*	
Lithium	*0.501*	*0.489*	*98*
Molybdenum		*-0.0004*	
Strontium	*0.500*	*0.479*	*96*
Tin		*0.0014*	
Titanium		*0.0032*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: TP-15 MS | Lab ID: 480-121411-3 MS

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 83.4

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	13500		8590		2360	209	75-125	F1	6010C
Antimony	35.28		ND		47.2	75	75-125		6010C
Arsenic	41.71		3.1		47.2	82	75-125		6010C
Barium	88.37		34.6		47.2	114	75-125	^	6010C
Beryllium	40.57		0.33		47.2	85	75-125		6010C
Cadmium	41.53		0.12	J	47.2	88	75-125		6010C
Calcium	41170		37400		2360	160	75-125	4	6010C
Chromium	52.31		11.2		47.2	87	75-125		6010C
Cobalt	48.94		4.5		47.2	94	75-125		6010C
Copper	56.67		10.9		47.2	97	75-125		6010C
Iron	13300		11700		2360	66	75-125	4	6010C
Lead	56.00		11.7		47.2	94	75-125		6010C
Magnesium	13750		11900		2360	78	75-125	4	6010C
Manganese	351.5		289		47.2	132	75-125	^ 4	6010C
Nickel	56.02		12.4		47.2	92	75-125		6010C
Potassium	5069		1470		2360	153	75-125	F1	6010C
Selenium	39.89		ND		47.2	85	75-125		6010C
Silver	9.81		ND		11.8	83	75-125		6010C
Sodium	2319		140	J	2360	92	75-125		6010C
Thallium	42.79		ND		47.2	91	75-125		6010C
Vanadium	66.36		21.0		47.2	96	75-125		6010C
Zinc	73.11		38.4		47.2	74	75-125	F1	6010C
Mercury	0.408		0.022	J	0.372	104	80-120		7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: TP-15 MSD | Lab ID: 480-121411-3 MSD

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 83.4

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	15050		2470	261	75-125	11	20	F1	6010C
Antimony	34.12		49.5	69	75-125	3	20	F1	6010C
Arsenic	42.48		49.5	80	75-125	2	20		6010C
Barium	95.38		49.5	123	75-125	8	20	^	6010C
Beryllium	41.66		49.5	84	75-125	3	20		6010C
Cadmium	42.82		49.5	86	75-125	3	20		6010C
Calcium	49840		2470	504	75-125	19	20	4	6010C
Chromium	53.58		49.5	86	75-125	2	20		6010C
Cobalt	49.54		49.5	91	75-125	1	20		6010C
Copper	57.74		49.5	95	75-125	2	20		6010C
Iron	13530		2470	72	75-125	2	20	4	6010C
Lead	54.72		49.5	87	75-125	2	20		6010C
Magnesium	14270		2470	96	75-125	4	20	4	6010C
Manganese	352.3		49.5	127	75-125	0	20	^ 4	6010C
Nickel	57.36		49.5	91	75-125	2	20		6010C
Potassium	5811		2470	176	75-125	14	20	F1	6010C
Selenium	40.40		49.5	82	75-125	1	20		6010C
Silver	10.07		12.4	81	75-125	3	20		6010C
Sodium	2373		2480	90	75-125	2	20		6010C
Thallium	44.30		49.5	90	75-125	3	20		6010C
Vanadium	67.58		49.5	94	75-125	2	20		6010C
Zinc	74.18		49.5	72	75-125	1	20	F1	6010C
Mercury	0.435		0.397	104	80-120	6	20		7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: TP-15 PDS | Lab ID: 480-121411-3 PDS

Lab Name: TestAmerica Buffalo | Job No.: 480-121411-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10510		8590		2250	85	80-120		6010C
Antimony	42.05		ND		45.1	93	80-120		6010C
Arsenic	42.71		3.1		45.1	88	80-120		6010C
Barium	75.58		34.6		45.1	91	80-120	^	6010C
Beryllium	41.69		0.33		45.1	92	80-120		6010C
Cadmium	42.48		0.12	J	45.1	94	80-120		6010C
Calcium	37720		37400		2250	NC	80-120		6010C
Chromium	50.21		11.2		45.1	87	80-120		6010C
Cobalt	49.09		4.5		45.1	99	80-120		6010C
Copper	55.34		10.9		45.1	98	80-120		6010C
Iron	13350		11700		2250	71	80-120	W	6010C
Lead	57.44		11.7		45.1	101	80-120		6010C
Magnesium	13700		11900		2250	80	80-120		6010C
Manganese	322.5		289		45.1	74	80-120	^ W	6010C
Nickel	57.19		12.4		45.1	99	80-120		6010C
Potassium	3636		1470		2260	96	80-120		6010C
Selenium	40.29		ND		45.1	89	80-120		6010C
Silver	9.90		ND		11.3	88	80-120		6010C
Sodium	2246		140	J	2260	93	80-120		6010C
Thallium	43.18		ND		45.1	96	80-120		6010C
Vanadium	61.45		21.0		45.1	90	80-120		6010C
Zinc	75.69		38.4		45.1	83	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-368425/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

Sample Matrix: Solid LCS Source: MED_SRM_D087_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	8200	9188		112.1	40.0	159.8		6010C
Antimony	105	68.55		65.3	19.6	254.3		6010C
Arsenic	221	181.4		82.1	71.0	133.5		6010C
Barium	428	371.1		86.7	74.3	125.5	^	6010C
Beryllium	112	98.01		87.5	75.0	125.0		6010C
Cadmium	126	105.8		84.0	73.3	126.2		6010C
Calcium	6160	5335		86.6	73.9	126.1		6010C
Chromium	74.7	64.17		85.9	68.5	131.3		6010C
Cobalt	198	196.8		99.4	74.7	125.8		6010C
Copper	83.3	76.78		92.2	73.8	130.9		6010C
Iron	14600	13780		94.4	36.1	163.7		6010C
Lead	76.9	80.09		104.2	68.8	131.3		6010C
Magnesium	3180	2784		87.5	67.0	133.3		6010C
Manganese	452	430.5		95.2	76.5	123.5	^	6010C
Nickel	178	180.5		101.4	73.6	128.7		6010C
Potassium	2820	2907		103.1	62.1	137.9		6010C
Selenium	111	90.65		81.7	65.7	134.2		6010C
Silver	59.6	48.62		81.6	66.8	133.1		6010C
Sodium	643	587.3		91.3	54.9	145.1		6010C
Thallium	151	141.3		93.6	68.2	131.1		6010C
Vanadium	150	134.1		89.4	70.7	129.3		6010C
Zinc	338	279.8		82.8	71.9	127.8		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-368382/2-A ^10

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

Sample Matrix: Solid LCS Source: MED_SRM_D087_00006

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	12.6	11.60		92.1	44.4	128.6		7471B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LCSD - CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCDSRM 480-368382/3-A ^10

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

Sample Matrix: Solid LCS Source: MED_SRM_D087_00006

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	11.43		12.6	90.7	4-128.6	1	20		7471B

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-121411-3

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-121411-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	8590		9269		8.0		6010C
Antimony	ND		ND		NC		6010C
Arsenic	3.1		3.36	J	NC		6010C
Barium	34.6		37.62		8.7	^	6010C
Beryllium	0.33		0.344	J	NC		6010C
Cadmium	0.12	J	ND		NC		6010C
Calcium	37400		41310		11	V	6010C
Chromium	11.2		12.41		11	V	6010C
Cobalt	4.5		4.31		5.3		6010C
Copper	10.9		10.65		2.5		6010C
Iron	11700		13170		12	V	6010C
Lead	11.7		10.95		6.6		6010C
Magnesium	11900		13010		9.3		6010C
Manganese	289		322.4		11	^ V	6010C
Nickel	12.4		12.07	J	2.6		6010C
Potassium	1470		1578		7.5		6010C
Selenium	ND		ND		NC		6010C
Silver	ND		ND		NC		6010C
Sodium	140	J	167.9	J	NC		6010C
Thallium	ND		ND		NC		6010C
Vanadium	21.0		23.43		11	V	6010C
Zinc	38.4		44.05		15	V	6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG Number:

Matrix: Solid Instrument ID: ICAP2

Method: 6010C MDL Date: 06/04/2015 15:22

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum	308.215	10	4.4
Antimony	206.833	15	0.4
Arsenic	189.042	2	0.4
Barium	455.403	0.5	0.11
Beryllium	313.042	0.2	0.028
Cadmium	228.802	0.2	0.03
Calcium	317.933	50	3.3
Chromium	267.716	0.5	0.2
Cobalt	228.616	0.5	0.05
Copper	327.396	1	0.21
Iron	259.940	10	3.5
Lead	220.353	1	0.24
Magnesium	279.079	20	0.927
Manganese	257.610	0.2	0.032
Nickel	231.604	5	0.23
Potassium	766.490	30	20
Selenium	196.090	4	0.4
Silver	328.068	0.6	0.2
Sodium	589.592	140	13
Thallium	190.856	6	0.3
Vanadium	292.402	0.5	0.11
Zinc	206.200	2	0.64

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG Number:

Matrix: Solid Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 10:53

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7471B MDL Date: 01/29/2010 00:00

Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury	253.7	0.02	0.0081

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7471B XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Al	As	Be	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Se
Aluminum	308.215												0.021502		
Antimony	206.833							0.015259		-0.000068					
Arsenic	189.042	-0.000017						-0.016071					-0.005260		
Barium	455.403														
Beryllium	313.042														
Boron	208.959												0.043278		
Cadmium	228.802		0.010934							-0.000006					
Calcium	317.933														
Chromium	267.716									-0.000010		0.000052			
Cobalt	228.616									-0.000003			-0.001257		
Copper	327.396				0.000030					-0.000034					
Iron	259.940														
Lead	220.353	-0.000020							0.000134	0.000031			-0.002133		
Lithium	670.784				0.000078										
Magnesium	279.079											-0.003617			
Manganese	257.610	0.000007								0.000008					
Molybdenum	202.030														
Nickel	231.604									0.000018					
Potassium	766.490														
Selenium	196.090	-0.000180										0.000419			
Silicon	288.158							-0.000713							
Silver	328.068											0.000149			
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034	-0.000327			-0.000197										
Thallium	190.856						0.001873					0.000754			
Tin	189.989														
Titanium	334.904				0.000010			0.000294					0.000785		
Vanadium	292.402									0.000020		0.000057	-0.009464		
Zinc	206.200							-0.000300							

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Si	Sn	Ti	Tl	V									
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042			-0.00065367											
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616			0.002032											
Copper	327.396			-0.00018661											
Iron	259.940														
Lead	220.353			-0.00070612											
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610					00080073									
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856					-0.006240									
Tin	189.989			-0.00012256											

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Si	Sn	Ti	Tl	V									
Titanium	334.904														
Vanadium	292.402			0.000751											
Zinc	206.200														

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-121411-1

SDG No.:

Instrument ID: ICAP2 Date: 02/16/2017 09:13

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	5000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-121411-1

SDG No.:

Instrument ID: LEEMAN2 Date: 10/13/2015 15:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7471B

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-368425/1-A	07/24/2017 17:04	368425	+0.5420		50
LCSSRM 480-368425/2-A	07/24/2017 17:04	368425	+0.4967		50
480-121411-1	07/24/2017 17:04	368425	+0.4789		50
480-121411-2	07/24/2017 17:04	368425	+0.4596		50
480-121411-3	07/24/2017 17:04	368425	+0.5315		50
480-121411-3 MS	07/24/2017 17:04	368425	+0.5082		50
480-121411-3 MSD	07/24/2017 17:04	368425	+0.4846		50
480-121411-4	07/24/2017 17:04	368425	+0.4624		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-368382/1-A	07/24/2017 12:35	368382	+0.6137		50
LCSSRM 480-368382/2-A ^10	07/24/2017 12:35	368382	+0.1599		50
LCDSRM 480-368382/3-A ^10	07/24/2017 12:35	368382	+0.1601		50
480-121411-1	07/24/2017 12:35	368382	+0.6364		50
480-121411-2	07/24/2017 12:35	368382	+0.6171		50
480-121411-3	07/24/2017 12:35	368382	+0.5949		50
480-121411-3 MS	07/24/2017 12:35	368382	+0.6449		50
480-121411-3 MSD	07/24/2017 12:35	368382	+0.6040		50
480-121411-4	07/24/2017 12:35	368382	+0.6286		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/26/2017 10:16 End Date: 07/26/2017 16:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-368988/1	1		10:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-368988/2			10:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-368988/3			10:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-368988/4			10:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-368988/5	1		10:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-368988/6	1		10:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-368988/7	1		10:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-368988/8	1		10:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-368988/9	1		10:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			10:47																				
ZZZZZZ			10:50																				
ZZZZZZ			10:54																				
ZZZZZZ			11:01																				
ZZZZZZ			11:04																				
CCV 480-368988/15			11:08																				
CCB 480-368988/16			11:11																				
CCV 480-368988/17	1		15:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-368988/18	1		15:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-368988/19	1		15:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:36																				
LCSSRM 480-368425/2-A	1	T	15:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121411-1	1	T	15:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121411-2	1	T	15:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121411-3	1	T	15:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121411-3 SD	5	T	15:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121411-3 PDS	1	T	15:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121411-3 MS	1	T	15:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121411-3 MSD	1	T	16:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-368988/29	1		16:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-368988/30	1		16:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-368988/31	1		16:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121411-4	1	T	16:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			16:20																				
ZZZZZZ			16:23																				
ZZZZZZ			16:27																				
ZZZZZZ			16:30																				
ZZZZZZ			16:34																				
ZZZZZZ			16:37																				
CCV 480-368988/39	1		16:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-368988/40	1		16:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-368988/41	1		16:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/26/2017 10:16 End Date: 07/26/2017 16:54

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-368988/1	1		10:16	X	X																		
IC 480-368988/2			10:20	X	X																		
IC 480-368988/3			10:23	X	X																		
IC 480-368988/4			10:27	X	X																		
ICV 480-368988/5	1		10:30	X	X																		
ICB 480-368988/6	1		10:33	X	X																		
ICVL 480-368988/7	1		10:37	X	X																		
ICSA 480-368988/8	1		10:40	X	X																		
ICSAB 480-368988/9	1		10:43	X	X																		
ZZZZZZ			10:47																				
ZZZZZZ			10:50																				
ZZZZZZ			10:54																				
ZZZZZZ			11:01																				
ZZZZZZ			11:04																				
CCV 480-368988/15			11:08																				
CCB 480-368988/16			11:11																				
CCV 480-368988/17	1		15:25	X	X																		
CCB 480-368988/18	1		15:29	X	X																		
CCVL 480-368988/19	1		15:32	X	X																		
ZZZZZZ			15:36																				
LCSSRM 480-368425/2-A	1	T	15:39	X	X																		
480-121411-1	1	T	15:42	X	X																		
480-121411-2	1	T	15:46	X	X																		
480-121411-3	1	T	15:49	X	X																		
480-121411-3 SD	5	T	15:53	X	X																		
480-121411-3 PDS	1	T	15:56	X	X																		
480-121411-3 MS	1	T	15:59	X	X																		
480-121411-3 MSD	1	T	16:03	X	X																		
CCV 480-368988/29	1		16:06	X	X																		
CCB 480-368988/30	1		16:09	X	X																		
CCVL 480-368988/31	1		16:13	X	X																		
480-121411-4	1	T	16:16	X	X																		
ZZZZZZ			16:20																				
ZZZZZZ			16:23																				
ZZZZZZ			16:27																				
ZZZZZZ			16:30																				
ZZZZZZ			16:34																				
ZZZZZZ			16:37																				
CCV 480-368988/39	1		16:47	X	X																		
CCB 480-368988/40	1		16:51	X	X																		
CCVL 480-368988/41	1		16:54	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/26/2017 10:16 End Date: 07/26/2017 16:54

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/27/2017 07:46 End Date: 07/27/2017 10:56

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-369045/1	1		07:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-369045/2			07:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-369045/3			07:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-369045/4			07:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-369045/5	1		07:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-369045/6	1		08:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-369045/7	1		08:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-369045/8	1		08:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-369045/9	1		08:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			08:16																				
ZZZZZZ			08:19																				
ZZZZZZ			08:22																				
ZZZZZZ			08:28																				
ZZZZZZ			08:32																				
CCV 480-369045/15			08:35																				
CCB 480-369045/16			08:38																				
CCVL 480-369045/17			08:42																				
CCVL 480-369045/18			08:57																				
CCV 480-369045/19	1		10:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-369045/20	1		10:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-369045/21	1		10:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-368425/1-A	1	T	10:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-369045/23	1		10:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-369045/24	1		10:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-369045/25	1		10:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/27/2017 07:46 End Date: 07/27/2017 10:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-369045/1	1		07:46	X	X																		
IC 480-369045/2			07:49	X	X																		
IC 480-369045/3			07:53	X	X																		
IC 480-369045/4			07:56	X	X																		
ICV 480-369045/5	1		07:59	X	X																		
ICB 480-369045/6	1		08:02	X	X																		
ICVL 480-369045/7	1		08:06	X	X																		
ICSA 480-369045/8	1		08:09	X	X																		
ICSAB 480-369045/9	1		08:12	X	X																		
ZZZZZZ			08:16																				
ZZZZZZ			08:19																				
ZZZZZZ			08:22																				
ZZZZZZ			08:28																				
ZZZZZZ			08:32																				
CCV 480-369045/15			08:35																				
CCB 480-369045/16			08:38																				
CCVL 480-369045/17			08:42																				
CCVL 480-369045/18			08:57																				
CCV 480-369045/19	1		10:10	X	X																		
CCB 480-369045/20	1		10:13	X	X																		
CCVL 480-369045/21	1		10:16	X	X																		
MB 480-368425/1-A	1	T	10:36	X	X																		
CCV 480-369045/23	1		10:50	X	X																		
CCB 480-369045/24	1		10:53	X	X																		
CCVL 480-369045/25	1		10:56	X	X																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 07/24/2017 14:38 End Date: 07/24/2017 15:37

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-368435/1	1		14:38	X																			
ICB 480-368435/2	1		14:40	X																			
ICVL 480-368435/3	1		14:42	X																			
CCV 480-368435/4	1		14:43	X																			
CCB 480-368435/5	1		14:45	X																			
MB 480-368382/1-A	1	T	14:47	X																			
LCSSRM 480-368382/2-A ^10	10	T	14:48	X																			
LCDSRM 480-368382/3-A ^10	10	T	14:50	X																			
ZZZZZZ			14:52																				
ZZZZZZ			14:53																				
ZZZZZZ			14:54																				
ZZZZZZ			14:56																				
ZZZZZZ			14:57																				
ZZZZZZ			14:59																				
ZZZZZZ			15:01																				
CCV 480-368435/16	1		15:02	X																			
CCB 480-368435/17	1		15:04	X																			
ZZZZZZ			15:06																				
ZZZZZZ			15:07																				
480-121411-1	1	T	15:09	X																			
480-121411-2	1	T	15:11	X																			
480-121411-3	1	T	15:12	X																			
480-121411-3 MS	1	T	15:14	X																			
480-121411-3 MSD	1	T	15:15	X																			
480-121411-4	1	T	15:16	X																			
ZZZZZZ			15:18																				
ZZZZZZ			15:20																				
CCV 480-368435/28	1		15:21	X																			
CCB 480-368435/29	1		15:23	X																			
ZZZZZZ			15:25																				
ZZZZZZ			15:26																				
ZZZZZZ			15:28																				
ZZZZZZ			15:29																				
ZZZZZZ			15:32																				
CCV 480-368435/35			15:34																				
CCB 480-368435/36			15:35																				
CCVL 480-368435/37	1		15:37	X																			

Prep Types

T = Total/NA

Run File: I2072617A Instrument: ICAP2

Analyst: JRK JRK 7/27/17 Data Review: 7/27/17

Spikes Ids: 4027863(W1), 3903387(W2), 4076679(Sn), 4076667(Ag), 3900427(Si), 3885452(TCLP)

Pipette IDs: 06/16/17-(1-9, 11)
Internal Standard: 4147891

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2072617A	ICIS-4130963	07/26/17 10:16 AM	Standard
2	I2072617A	IC-4130962	07/26/17 10:20 AM	Standard
3	I2072617A	IC-4121446	07/26/17 10:23 AM	Standard
4	I2072617A	IC-4121445	07/26/17 10:27 AM	Standard
5	I2072617A	ICV-4147886	07/26/17 10:30 AM	QC
6	I2072617A	ICB-4130963	07/26/17 10:33 AM	QC
7	I2072617A	ICVL-4147888	07/26/17 10:37 AM	QC
8	I2072617A	ICSA-4090634	07/26/17 10:40 AM	QC
9	I2072617A	ICSAB-4093406	07/26/17 10:43 AM	QC
10	I2072617A	ICEX1	07/26/17 10:47 AM	Unknown
11	I2072617A	ICEX2	07/26/17 10:50 AM	Unknown
12	I2072617A	ICEX3	07/26/17 10:54 AM	Unknown
13	I2072617A	ICEX4	07/26/17 11:01 AM	Unknown
14	I2072617A	ICEX5	07/26/17 11:04 AM	Unknown
15	I2072617A	CCV-4147885	07/26/17 11:08 AM	QC
16	I2072617A	CCB-4130963	07/26/17 11:11 AM	QC
17	I2072617A	CCVL-4147888	07/26/17 11:20 AM	QC
18	I2072617A	mb 480-368171/1-a	07/26/17 11:24 AM	Unknown
19	I2072617A	lcs 480-368171/2-a	07/26/17 11:27 AM	Unknown
20	I2072617A	121361-a-2-b@5	07/26/17 11:30 AM	Unknown
21	I2072617A	121361-a-2-c ms@5	07/26/17 11:34 AM	Unknown
22	I2072617A	121361-a-2-d msd@5	07/26/17 11:38 AM	Unknown
23	I2072617A	BLANK	07/26/17 11:41 AM	Unknown
24	I2072617A	480-121340-a-1-b	07/26/17 11:45 AM	Unknown
25	I2072617A	480-121369-b-1-a	07/26/17 11:48 AM	Unknown
26	I2072617A	BLANK	07/26/17 11:52 AM	Unknown
27	I2072617A	CCV-4147885	07/26/17 11:55 AM	QC
28	I2072617A	CCB-4130963	07/26/17 11:58 AM	QC
29	I2072617A	CCVL-4147888	07/26/17 12:02 PM	QC
30	I2072617A	lb 480-368350/1-b	07/26/17 12:05 PM	Unknown
31	I2072617A	mb 480-368572/2-a	07/26/17 12:09 PM	Unknown
32	I2072617A	lcs 480-368572/3-a	07/26/17 12:12 PM	Unknown
33	I2072617A	480-121205-a-2-f	07/26/17 12:16 PM	Unknown
34	I2072617A	480-121205-a-5-d	07/26/17 12:19 PM	Unknown
35	I2072617A	480-121365-a-2-b	07/26/17 12:23 PM	Unknown
36	I2072617A	480-121365-a-3-b	07/26/17 12:26 PM	Unknown
37	I2072617A	480-121389-a-2-b	07/26/17 12:30 PM	Unknown
38	I2072617A	480-121389-a-2-bSD@5	07/26/17 12:33 PM	Unknown
39	I2072617A	CCV-4147885	07/26/17 12:37 PM	QC
40	I2072617A	CCB-4130963	07/26/17 12:40 PM	QC
41	I2072617A	CCVL-4147888	07/26/17 12:44 PM	QC
42	I2072617A	480-121389-a-2-b PDS	07/26/17 12:47 PM	Unknown

43	I2072617A	480-121389-a-2-c ms	07/26/17 12:50 PM Unknown
44	I2072617A	480-121389-a-2-d msd	07/26/17 12:54 PM Unknown
45	I2072617A	480-121438-a-1-d	07/26/17 12:57 PM Unknown
46	I2072617A	480-121438-a-1-d@5	07/26/17 01:01 PM Unknown
47	I2072617A	BLANK	07/26/17 01:04 PM Unknown
48	I2072617A	lb 480-368302/1-b	07/26/17 01:08 PM Unknown
49	I2072617A	mb 480-368367/2-a	07/26/17 01:11 PM Unknown
50	I2072617A	lcs 480-368367/3-a	07/26/17 01:15 PM Unknown
51	I2072617A	CCV-4147885	07/26/17 01:18 PM QC
52	I2072617A	CCB-4130963	07/26/17 01:21 PM QC
53	I2072617A	CCVL-4147888	07/26/17 01:25 PM QC
54	I2072617A	480-121360-c-1-b@10	07/26/17 01:28 PM Unknown
55	I2072617A	480-121360-c-1-b@100	07/26/17 01:32 PM Unknown
56	I2072617A	BLANK	07/26/17 01:36 PM Unknown
57	I2072617A	BLANK	07/26/17 01:39 PM Unknown
58	I2072617A	121362-f-1-b@100	07/26/17 01:43 PM Unknown
59	I2072617A	121362-f-1-bSD@500	07/26/17 01:46 PM Unknown
60	I2072617A	121362-f-1-bPDS@100	07/26/17 01:50 PM Unknown
61	I2072617A	121362-f-1-c ms@100	07/26/17 01:53 PM Unknown
62	I2072617A	121362-f-1-d msd@100	07/26/17 01:57 PM Unknown
63	I2072617A	CCV-4147885	07/26/17 02:01 PM QC
64	I2072617A	CCB-4130963	07/26/17 02:04 PM QC
65	I2072617A	CCVL-4147888	07/26/17 02:07 PM QC
66	I2072617A	121362-f-1-b@10	07/26/17 02:11 PM Unknown
67	I2072617A	121362-f-1-bSD@50	07/26/17 02:15 PM Unknown
68	I2072617A	121362-f-1-bPDS@10	07/26/17 02:18 PM Unknown
69	I2072617A	121362-f-1-c ms@10	07/26/17 02:22 PM Unknown
70	I2072617A	121362-f-1-d msd@10	07/26/17 02:25 PM Unknown
71	I2072617A	BLANK	07/26/17 02:29 PM Unknown
72	I2072617A	480-121365-b-1-b	07/26/17 02:33 PM Unknown
73	I2072617A	480-121376-e-1-b@100	07/26/17 02:36 PM Unknown
74	I2072617A	BLANK	07/26/17 02:40 PM Unknown
75	I2072617A	CCV-4147885	07/26/17 02:43 PM QC
76	I2072617A	CCB-4130963	07/26/17 02:46 PM QC
77	I2072617A	CCVL-4147888	07/26/17 02:50 PM QC
78	I2072617A	480-121376-e-1-b@10	07/26/17 02:53 PM Unknown
79	I2072617A	480-121380-c-1-b@10	07/26/17 02:57 PM Unknown
80	I2072617A	480-121380-c-1-b@100	07/26/17 03:01 PM Unknown
81	I2072617A	BLANK	07/26/17 03:04 PM Unknown
82	I2072617A	480-121453-c-1-b	07/26/17 03:08 PM Unknown
83	I2072617A	480-121453-d-2-b	07/26/17 03:11 PM Unknown
84	I2072617A	lcsd 480-368367/13-a	07/26/17 03:15 PM Unknown
85	I2072617A	BLANK	07/26/17 03:18 PM Unknown
86	I2072617A	BLANK	07/26/17 03:22 PM Unknown
87	I2072617A	CCV-4147885	07/26/17 03:25 PM QC
88	I2072617A	CCB-4130963	07/26/17 03:29 PM QC
89	I2072617A	CCVL-4147888	07/26/17 03:32 PM QC
90	I2072617A	mb 480-368425/1-a	07/26/17 03:36 PM Unknown
91	I2072617A	lcssrm 480-368425/2-	07/26/17 03:39 PM Unknown
92	I2072617A	480-121411-c-1-b	07/26/17 03:42 PM Unknown
93	I2072617A	480-121411-c-2-b	07/26/17 03:46 PM Unknown
94	I2072617A	480-121411-c-3-d	07/26/17 03:49 PM Unknown

95	I2072617A	480-121411-c-3-dSD@5	07/26/17 03:53 PM Unknown
96	I2072617A	480-121411-c-3-d PDS	07/26/17 03:56 PM Unknown
97	I2072617A	480-121411-c-3-e ms	07/26/17 03:59 PM Unknown
98	I2072617A	480-121411-c-3-f msd	07/26/17 04:03 PM Unknown
99	I2072617A	CCV-4147885	07/26/17 04:06 PM QC
100	I2072617A	CCB-4130963	07/26/17 04:09 PM QC
101	I2072617A	CCVL-4147888	07/26/17 04:13 PM QC
102	I2072617A	480-121411-c-4-b	07/26/17 04:16 PM Unknown
103	I2072617A	480-121458-c-2-a	07/26/17 04:20 PM Unknown
104	I2072617A	480-121458-a-4-a	07/26/17 04:23 PM Unknown
105	I2072617A	480-121458-c-5-a	07/26/17 04:27 PM Unknown
106	I2072617A	480-121458-d-6-a	07/26/17 04:30 PM Unknown
107	I2072617A	480-121458-d-8-a	07/26/17 04:34 PM Unknown
108	I2072617A	480-121458-b-13-a	07/26/17 04:37 PM Unknown
109	I2072617A	BLANK	07/26/17 04:41 PM Unknown
110	I2072617A	mb 480-368588/1-a	07/26/17 04:44 PM Unknown
111	I2072617A	CCV-4147885	07/26/17 04:47 PM QC
112	I2072617A	CCB-4130963	07/26/17 04:51 PM QC
113	I2072617A	CCVL-4147888	07/26/17 04:54 PM QC
114	I2072617A	lcssrm 480-368588/2-	07/26/17 04:58 PM Unknown
115	I2072617A	480-121578-c-1-b	07/26/17 05:01 PM Unknown
116	I2072617A	480-121578-c-2-b	07/26/17 05:04 PM Unknown
117	I2072617A	480-121578-a-3-b	07/26/17 05:08 PM Unknown
118	I2072617A	480-121578-a-3-bSD@5	07/26/17 05:11 PM Unknown
119	I2072617A	480-121578-a-3-b PDS	07/26/17 05:14 PM Unknown
120	I2072617A	480-121578-c-3-c ms	07/26/17 05:18 PM Unknown
121	I2072617A	480-121578-c-3-d msd	07/26/17 05:21 PM Unknown
122	I2072617A	480-121578-c-4-b	07/26/17 05:25 PM Unknown
123	I2072617A	CCV-4147885	07/26/17 05:28 PM QC
124	I2072617A	CCB-4130963	07/26/17 05:31 PM QC
125	I2072617A	CCVL-4147888	07/26/17 05:35 PM QC
126	I2072617A	480-121578-c-5-b	07/26/17 05:38 PM Unknown
127	I2072617A	480-121578-c-6-b	07/26/17 05:42 PM Unknown
128	I2072617A	480-121578-c-7-b	07/26/17 05:45 PM Unknown
129	I2072617A	480-121578-a-8-b	07/26/17 05:48 PM Unknown
130	I2072617A	480-121494-a-1-a	07/26/17 05:52 PM Unknown
131	I2072617A	BLANK	07/26/17 05:55 PM Unknown
132	I2072617A	mb 480-368587/1-a	07/26/17 05:59 PM Unknown
133	I2072617A	lcssrm 480-368587/2-	07/26/17 06:02 PM Unknown
134	I2072617A	480-121506-c-16-b	07/26/17 06:05 PM Unknown
135	I2072617A	CCV-4147885	07/26/17 06:09 PM QC
136	I2072617A	CCB-4130963	07/26/17 06:12 PM QC
137	I2072617A	CCVL-4147888	07/26/17 06:16 PM QC
138	I2072617A	480-121506-a-17-a	07/26/17 06:19 PM Unknown
139	I2072617A	121506-a-18-a	07/26/17 06:23 PM Unknown
140	I2072617A	121506-a-18-aSD@5	07/26/17 06:26 PM Unknown
141	I2072617A	121506-a-18-a PDS	07/26/17 06:29 PM Unknown
142	I2072617A	121506-a-18-b ms	07/26/17 06:33 PM Unknown
143	I2072617A	121506-a-18-c msd	07/26/17 06:36 PM Unknown
144	I2072617A	480-121506-a-19-a	07/26/17 06:40 PM Unknown
145	I2072617A	480-121506-c-20-b	07/26/17 06:43 PM Unknown
146	I2072617A	480-121506-c-21-d	07/26/17 06:47 PM Unknown

147	I2072617A	CCV-4147885	07/26/17 06:50 PM QC
148	I2072617A	CCB-4130963	07/26/17 06:53 PM QC
149	I2072617A	CCVL-4147888	07/26/17 06:57 PM QC
150	I2072617A	480-121506-c-21-e ms	07/26/17 07:00 PM Unknown
151	I2072617A	480-121506-c-21-f ms	07/26/17 07:04 PM Unknown
152	I2072617A	480-121506-c-22-b	07/26/17 07:07 PM Unknown
153	I2072617A	480-121506-c-23-b	07/26/17 07:10 PM Unknown
154	I2072617A	480-121506-a-26-a	07/26/17 07:14 PM Unknown
155	I2072617A	480-121506-c-27-b	07/26/17 07:17 PM Unknown
156	I2072617A	BLANK	07/26/17 07:21 PM Unknown
157	I2072617A	mb 480-368566/1-a	07/26/17 07:24 PM Unknown
158	I2072617A	lcssrm 480-368566/2-	07/26/17 07:28 PM Unknown
159	I2072617A	CCV-4147885	07/26/17 07:31 PM QC
160	I2072617A	CCB-4130963	07/26/17 07:34 PM QC
161	I2072617A	CCVL-4147888	07/26/17 07:37 PM QC
162	I2072617A	480-121501-c-1-a	07/26/17 07:41 PM Unknown
163	I2072617A	480-121501-c-2-a	07/26/17 07:44 PM Unknown
164	I2072617A	480-121501-c-3-a	07/26/17 07:48 PM Unknown
165	I2072617A	480-121501-c-3-aSD@5	07/26/17 07:51 PM Unknown
166	I2072617A	480-121501-c-3-a PDS	07/26/17 07:55 PM Unknown
167	I2072617A	480-121501-c-3-b ms	07/26/17 07:58 PM Unknown
168	I2072617A	480-121501-c-3-c msd	07/26/17 08:02 PM Unknown
169	I2072617A	480-121501-c-4-a	07/26/17 08:05 PM Unknown
170	I2072617A	480-121501-c-5-a	07/26/17 08:08 PM Unknown
171	I2072617A	CCV-4147885	07/26/17 08:12 PM QC
172	I2072617A	CCB-4130963	07/26/17 08:15 PM QC
173	I2072617A	CCVL-4147888	07/26/17 08:19 PM QC
174	I2072617A	480-121501-c-6-a	07/26/17 08:22 PM Unknown
175	I2072617A	480-121550-c-1-a	07/26/17 08:26 PM Unknown
176	I2072617A	480-121550-d-3-a	07/26/17 08:29 PM Unknown
177	I2072617A	480-121550-a-8-a	07/26/17 08:33 PM Unknown
178	I2072617A	480-121550-a-11-a	07/26/17 08:36 PM Unknown
179	I2072617A	480-121393-b-2-a	07/26/17 08:39 PM Unknown
180	I2072617A	480-121389-c-2-a	07/26/17 08:43 PM Unknown
181	I2072617A	480-121492-a-1-a	07/26/17 08:46 PM Unknown
182	I2072617A	480-121492-a-1-a@10	07/26/17 08:50 PM Unknown
183	I2072617A	CCV-4147885	07/26/17 08:53 PM QC
184	I2072617A	CCB-4130963	07/26/17 08:56 PM QC
185	I2072617A	CCVL-4147888	07/26/17 09:00 PM QC
186	I2072617A	mb 480-368710/1-a	07/26/17 09:03 PM Unknown
187	I2072617A	lcs 480-368710/2-a	07/26/17 09:07 PM Unknown
188	I2072617A	480-121588-e-1-b	07/26/17 09:10 PM Unknown
189	I2072617A	480-121588-e-2-b	07/26/17 09:14 PM Unknown
190	I2072617A	480-121588-e-3-b	07/26/17 09:17 PM Unknown
191	I2072617A	480-121588-e-4-b	07/26/17 09:20 PM Unknown
192	I2072617A	480-121588-e-5-d	07/26/17 09:24 PM Unknown
193	I2072617A	480-121588-e-5-dPDS	07/26/17 09:27 PM Unknown
194	I2072617A	480-121588-e-5-dSD@5	07/26/17 09:30 PM Unknown
195	I2072617A	CCV-4147885	07/26/17 09:34 PM QC
196	I2072617A	CCB-4130963	07/26/17 09:37 PM QC
197	I2072617A	CCVL-4147888	07/26/17 09:41 PM QC
198	I2072617A	480-121588-e-5-e ms	07/26/17 09:44 PM Unknown

199	I2072617A	480-121588-e-5-f msd	07/26/17 09:47 PM Unknown
200	I2072617A	480-121588-e-6-b	07/26/17 09:51 PM Unknown
201	I2072617A	480-121588-e-7-b	07/26/17 09:54 PM Unknown
202	I2072617A	480-121588-e-8-b	07/26/17 09:57 PM Unknown
203	I2072617A	480-121599-c-3-b	07/26/17 10:01 PM Unknown
204	I2072617A	480-121622-b-1-a	07/26/17 10:04 PM Unknown
205	I2072617A	480-121622-b-2-a	07/26/17 10:08 PM Unknown
206	I2072617A	480-121622-b-3-a	07/26/17 10:11 PM Unknown
207	I2072617A	CCV-4147885	07/26/17 10:15 PM QC
208	I2072617A	CCB-4130963	07/26/17 10:18 PM QC
209	I2072617A	CCVL-4147888	07/26/17 10:21 PM QC
210	I2072617A	480-121622-b-4-a	07/26/17 10:25 PM Unknown
211	I2072617A	480-121624-a-1-a	07/26/17 10:28 PM Unknown
212	I2072617A	480-121634-d-1-a	07/26/17 10:32 PM Unknown
213	I2072617A	480-121613-d-1-a	07/26/17 10:35 PM Unknown
214	I2072617A	480-121613-d-2-a	07/26/17 10:38 PM Unknown
215	I2072617A	480-121613-d-3-a	07/26/17 10:42 PM Unknown
216	I2072617A	480-121613-d-3-a@5	07/26/17 10:46 PM Unknown
217	I2072617A	480-121470-o-1-b	07/26/17 10:49 PM Unknown
218	I2072617A	BLANK	07/26/17 10:52 PM Unknown
219	I2072617A	CCV-4147885	07/26/17 10:56 PM QC
220	I2072617A	CCB-4130963	07/26/17 10:59 PM QC
221	I2072617A	CCVL-4147888	07/26/17 11:03 PM QC
222	I2072617A	icsa-4090634	07/26/17 11:06 PM QC
223	I2072617A	icsab-4093406	07/26/17 11:10 PM QC
224	I2072617A	CCV-4147885	07/26/17 11:13 PM QC
225	I2072617A	CCB-4130963	07/26/17 11:16 PM QC

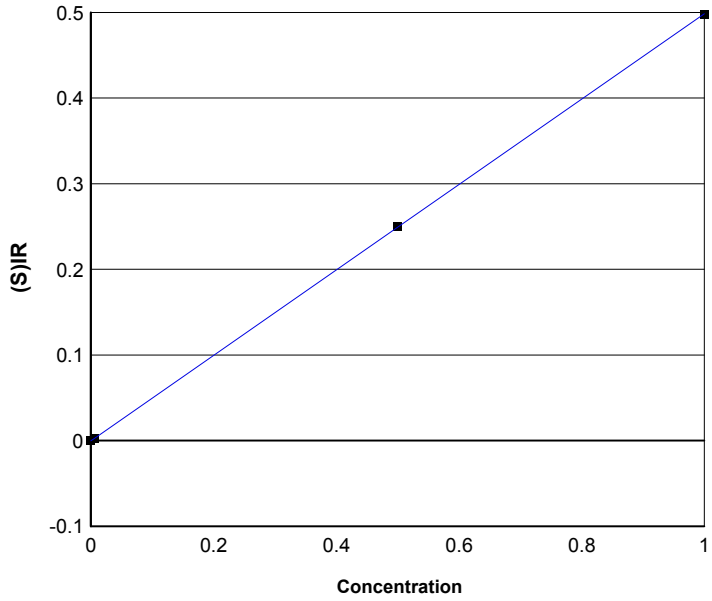
I272617A

Author: JRK

Published: 7/27/2017 7:03:11AM

Instrument Name: iCAP2 Serial Number: 20094602

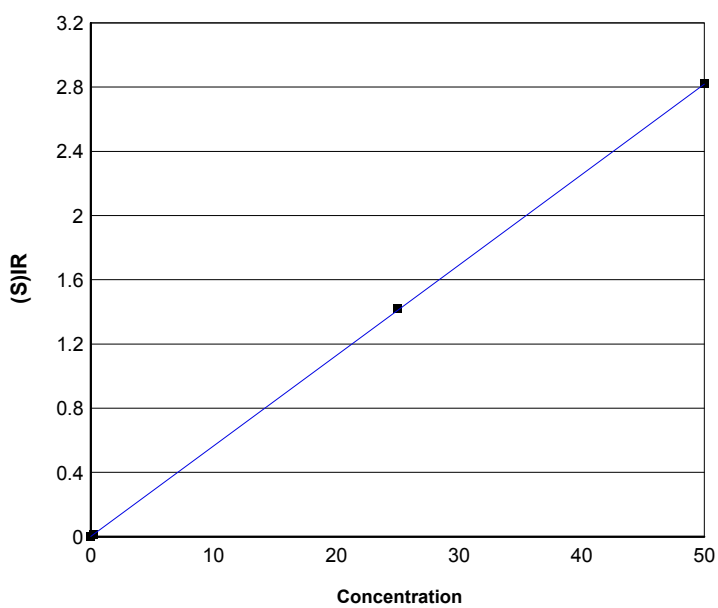
Method Name: ICAP2 June 2017 (60)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00010323
A1 (Gain):	0.49875
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

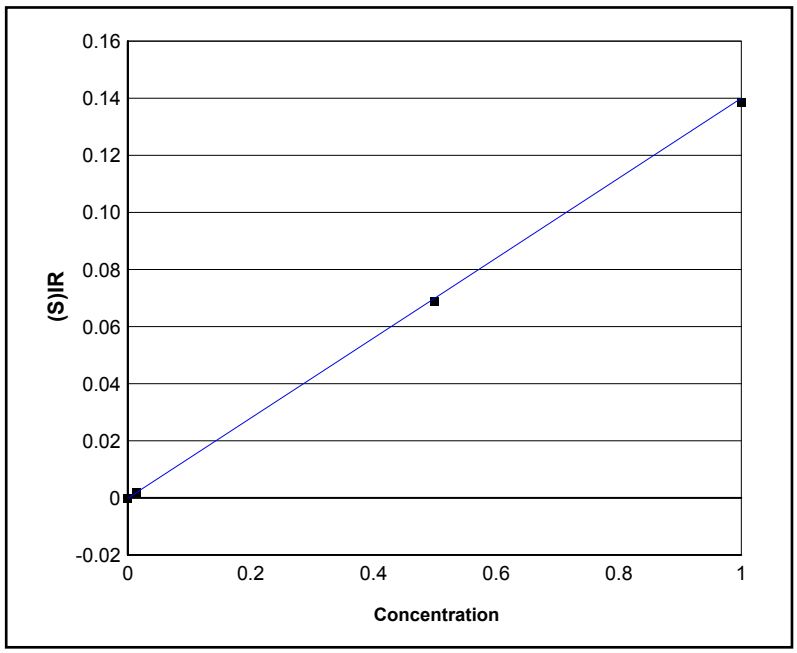
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000005658	0.0000005658	0.00000	-0.00010295	0.00025995	1
IC-4130962	0.0060000	0.0054152	-0.00058477	-9.7461	0.0025977	0.00022722	1
IC-4121446	0.50000	0.50257	0.0025719	0.51439	0.25057	0.00042386	1
IC-4121445	1.0000	0.99801	-0.0019872	-0.19872	0.49769	0.0013501	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0016843
A1 (Gain):	0.056323
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

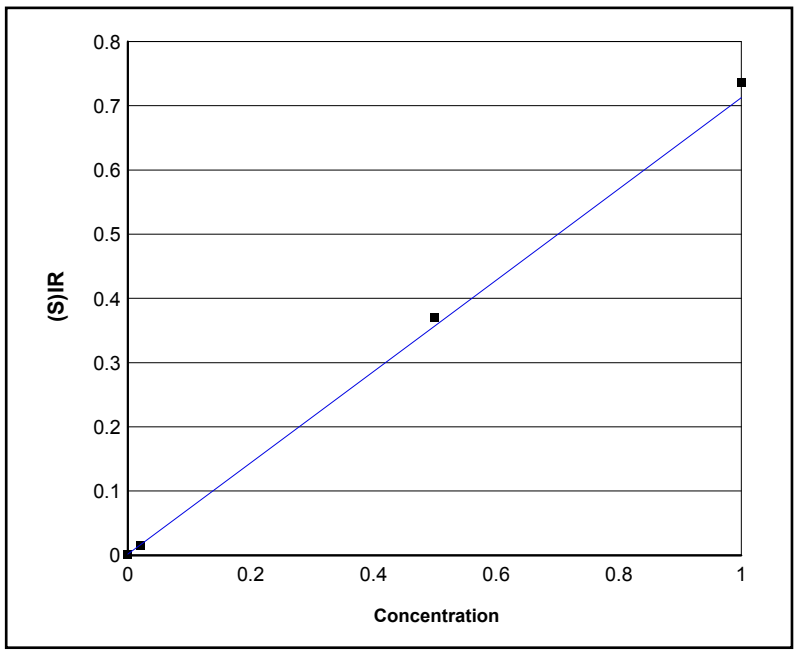
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000015988	-0.000015988	0.00000	0.0016834	0.00013602	1
IC-4130962	0.20000	0.21581	0.015810	7.9050	0.013901	0.00072515	1
IC-4121446	25.000	25.060	0.060407	0.24163	1.4194	0.0018042	1
IC-4121445	50.000	49.924	-0.076234	-0.15247	2.8259	0.0042519	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000096539
A1 (Gain):	0.14014
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

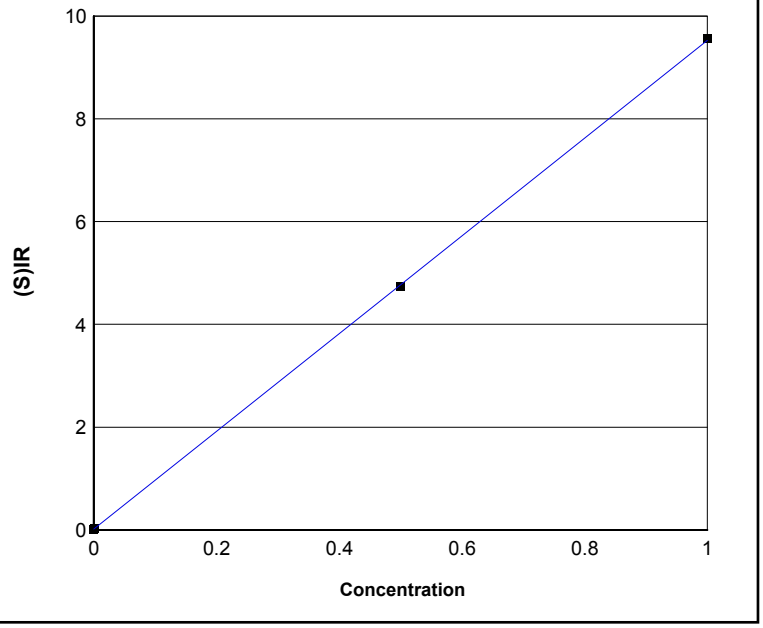
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002096	0.0000002096	0.00000	-0.000096510	0.00049043	1
IC-4130962	0.015000	0.014828	-0.00017223	-1.1482	0.0019741	0.000078109	1
IC-4121446	0.50000	0.49734	-0.0026638	-0.53275	0.068689	0.00021497	1
IC-4121445	1.0000	1.0028	0.0028377	0.28377	0.13862	0.00026645	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0017680
A1 (Gain):	0.71062
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

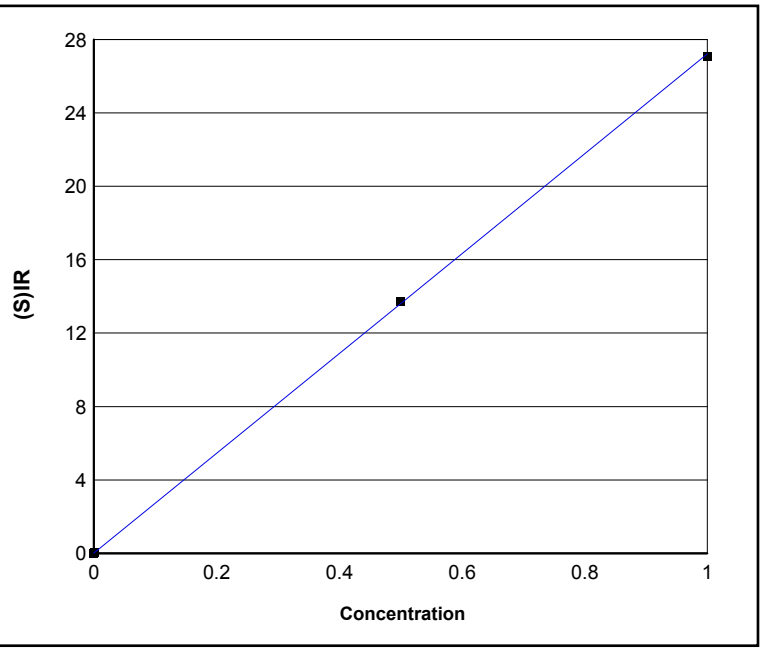
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001253	0.0000001253	0.00000	0.0017681	0.00025647	1
IC-4130962	0.020000	0.019846	-0.00015369	-0.76845	0.016117	0.000050260	1
IC-4121446	0.50000	0.50127	0.0012661	0.25322	0.37026	0.00043714	1
IC-4121445	1.0000	0.99889	-0.0011150	-0.11150	0.73616	0.0010812	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.016685
A1 (Gain):	9.5117
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

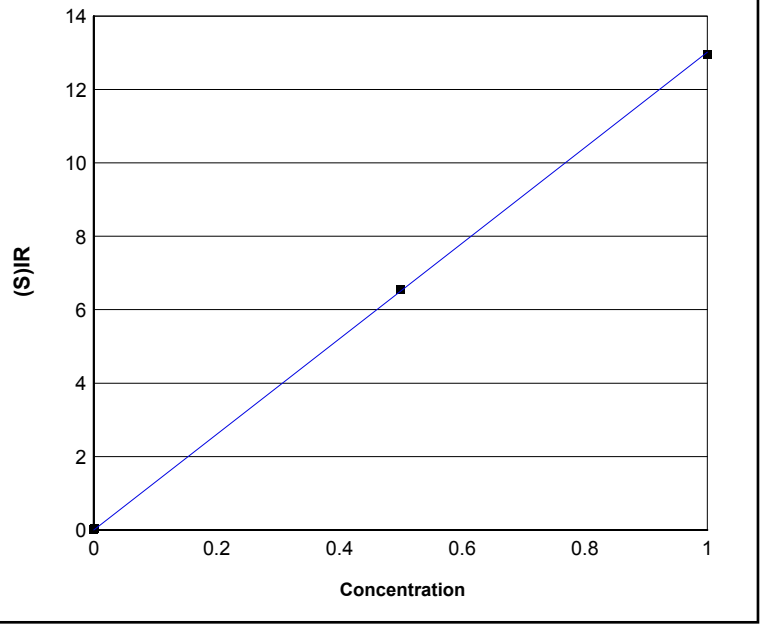
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003013	0.0000003013	0.00000	0.016688	0.00064846	1
IC-4130962	0.0020000	0.0017042	-0.00029580	-14.790	0.032894	0.0027879	1
IC-4121446	0.50000	0.49697	-0.0030270	-0.60540	4.7437	0.030357	1
IC-4121445	1.0000	1.0033	0.0033228	0.33228	9.5600	0.0076132	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0071975
A1 (Gain):	27.205
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

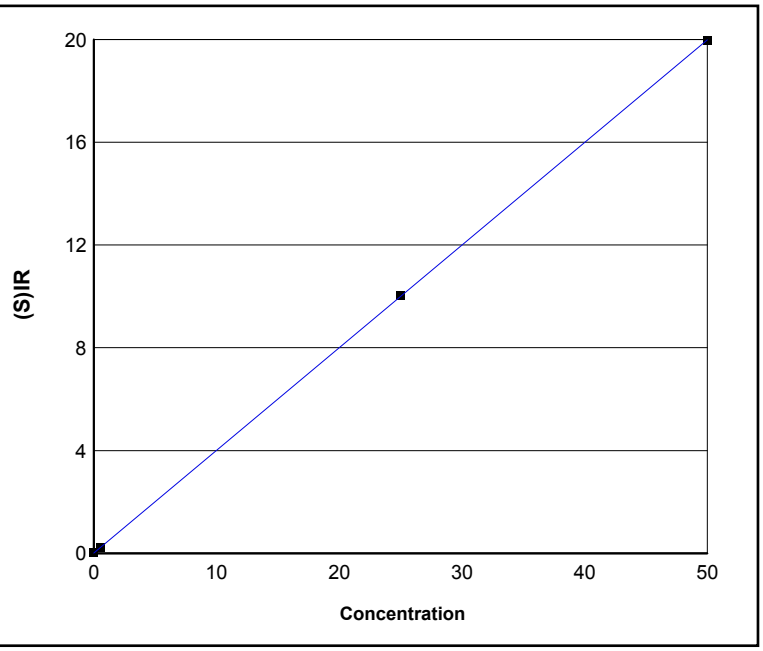
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001016	-0.0000001016	0.00000	0.0071947	0.000011943	1
IC-4130962	0.0020000	0.0020919	0.000091869	4.5934	0.064107	0.0012837	1
IC-4121446	0.50000	0.50494	0.0049361	0.98723	13.744	0.056366	1
IC-4121445	1.0000	0.99497	-0.0050280	-0.50280	27.076	0.096781	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00035347
A1 (Gain):	13.015
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

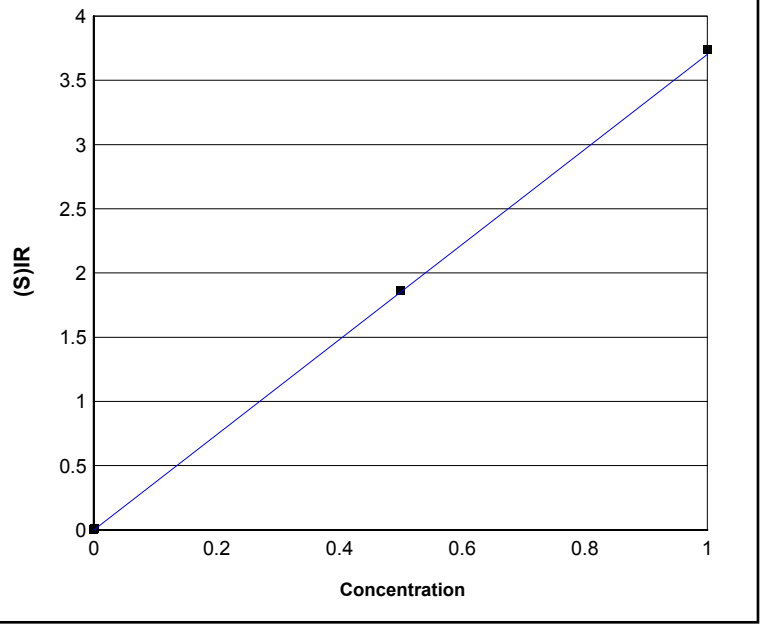
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000991	-0.0000000991	0.00000	0.00035218	0.0000052820	1
IC-4130962	0.0020000	0.0020913	0.000091334	4.5667	0.027530	0.00058455	1
IC-4121446	0.50000	0.50399	0.0039935	0.79871	6.5555	0.019042	1
IC-4121445	1.0000	0.99592	-0.0040848	-0.40848	12.954	0.0019473	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.012041
A1 (Gain):	0.39957
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

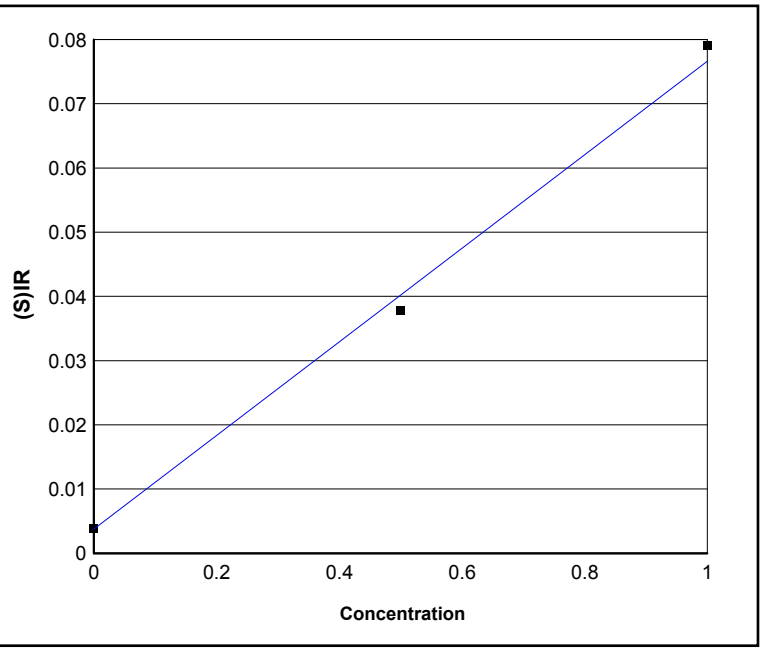
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000024542	-0.0000024542	0.00000	0.012040	0.00052794	1
IC-4130962	0.50000	0.50182	0.0018171	0.36342	0.21255	0.000030502	1
IC-4121446	25.000	25.066	0.065528	0.26211	10.027	0.044991	1
IC-4121445	50.000	49.933	-0.067345	-0.13469	19.964	0.014363	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00032925
A1 (Gain):	3.7023
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

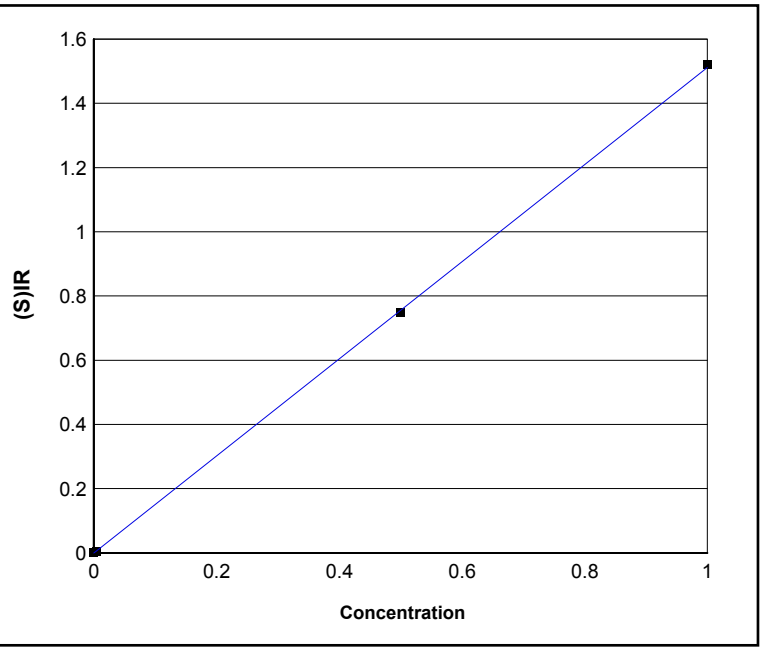
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000938	-0.0000000938	0.00000	0.00032890	0.00074173	1
IC-4130962	0.0020000	0.0020949	0.000094909	4.7454	0.0085848	0.000019785	1
IC-4121446	0.50000	0.49955	-0.00045231	-0.090461	1.8664	0.0027753	1
IC-4121445	1.0000	1.0004	0.00035189	0.035189	3.7370	0.00067303	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.9989
A0 (Offset):	0.003782
A1 (Gain):	0.07284
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

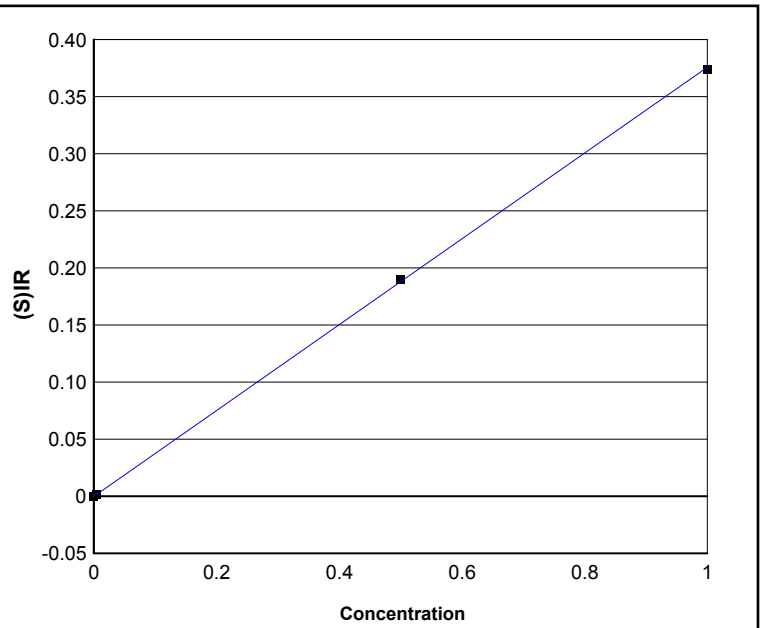
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000	0.00001690	0.00001690	0.0000	0.003783	0.001753	1
IC-4121446	0.5000	0.4662	-0.03381	-6.762	0.03774	0.002213	1
IC-4121445	1.000	1.034	0.03381	3.381	0.07909	0.002569	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.000037511
A1 (Gain):	1.5115
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

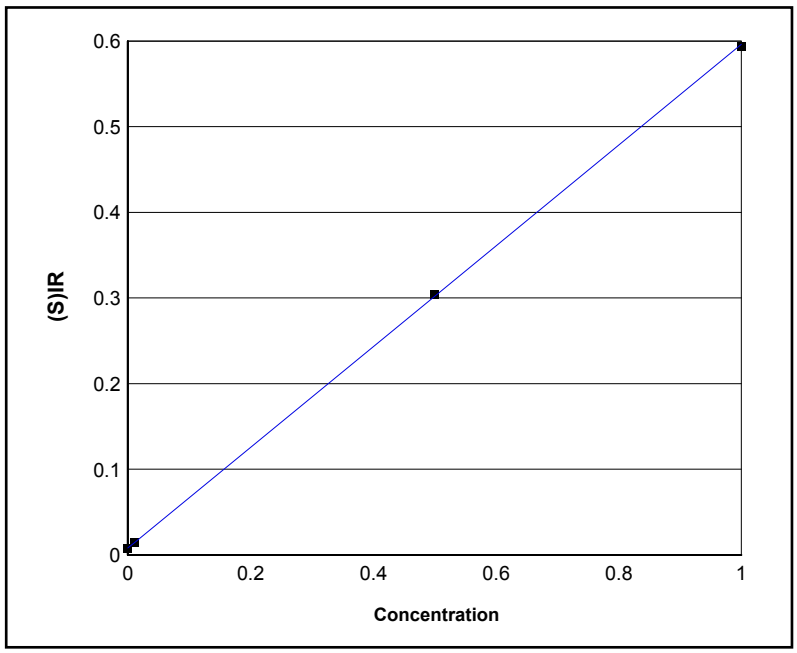
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002358	0.0000002358	0.00000	0.000037868	0.00015318	1
IC-4130962	0.0040000	0.0037820	-0.00021798	-5.4494	0.0057518	0.000072790	1
IC-4121446	0.50000	0.49532	-0.0046785	-0.93570	0.74938	0.00016862	1
IC-4121445	1.0000	1.0049	0.0048962	0.48962	1.5203	0.0015678	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.000084470
A1 (Gain):	0.37588
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

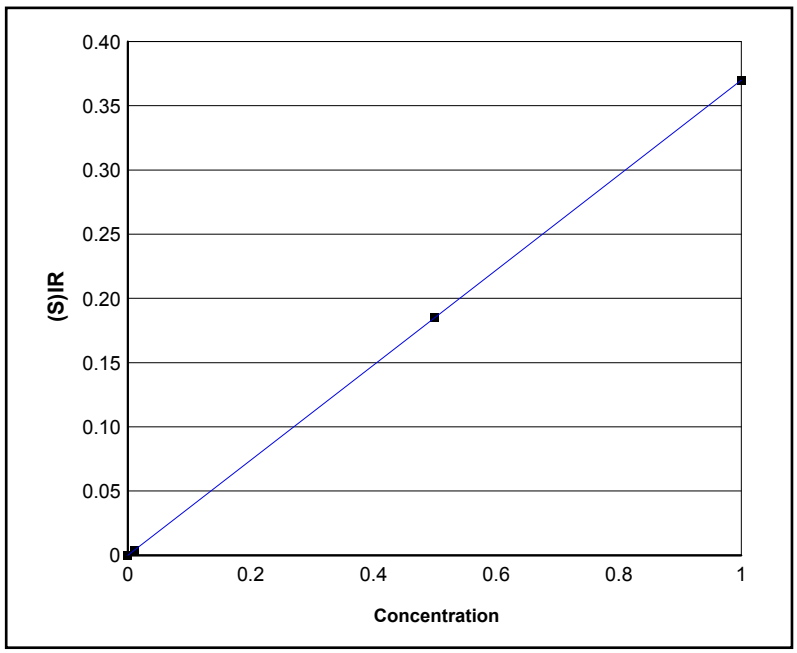
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000008174	-0.0000008174	0.00000	-0.000084777	0.000017857	1
IC-4130962	0.0040000	0.0048031	0.00080314	20.079	0.0017209	0.00015966	1
IC-4121446	0.50000	0.50437	0.0043678	0.87356	0.18945	0.00032023	1
IC-4121445	1.0000	0.99483	-0.0051711	-0.51711	0.37375	0.0025378	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0079926
A1 (Gain):	0.58832
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

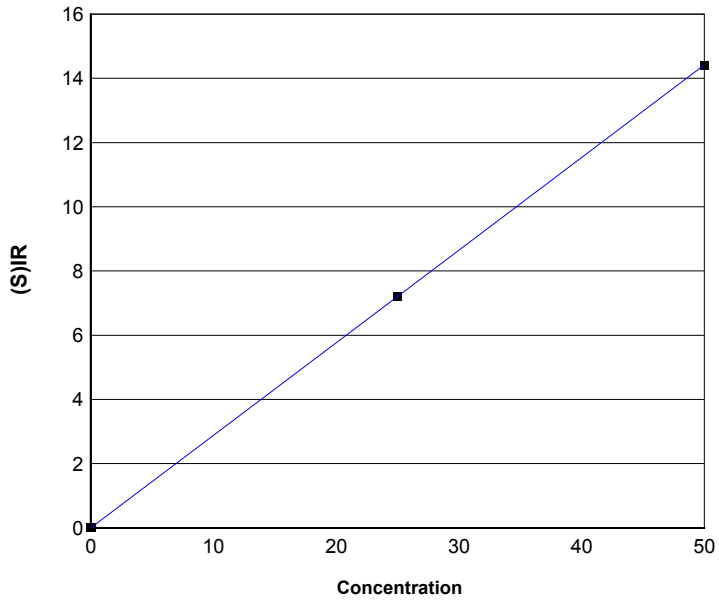
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000005299	-0.0000005299	0.00000	0.0079923	0.0000003193	1
IC-4130962	0.010000	0.010503	0.00050284	5.0284	0.014172	0.00028702	1
IC-4121446	0.50000	0.50321	0.0032089	0.64178	0.30404	0.0010420	1
IC-4121445	1.0000	0.99629	-0.0037118	-0.37118	0.59412	0.0014851	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.000054490
A1 (Gain):	0.36981
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

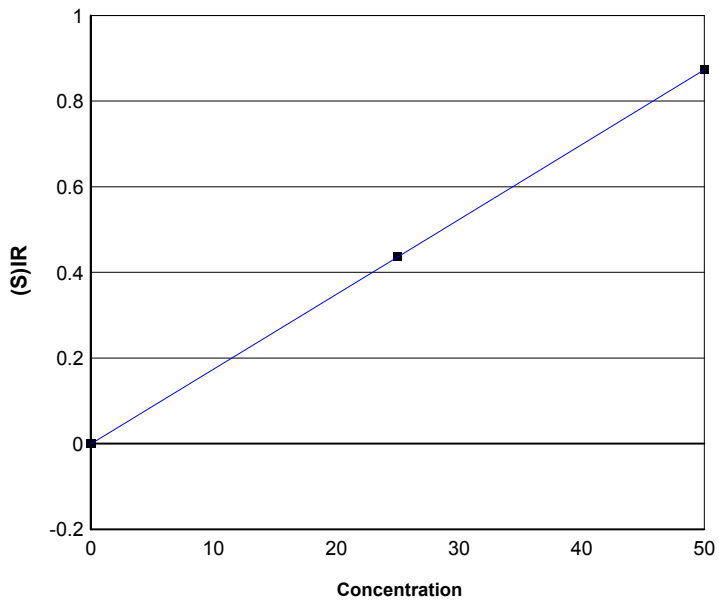
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000009526	-0.0000009526	0.00000	0.000054137	0.000026870	1
IC-4130962	0.010000	0.010961	0.00096141	9.6141	0.0041128	0.00022850	1
IC-4121446	0.50000	0.50008	0.000075867	0.015173	0.18517	0.00066458	1
IC-4121445	1.0000	0.99896	-0.0010375	-0.10375	0.36985	0.00053799	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00089356
A1 (Gain):	0.28839
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

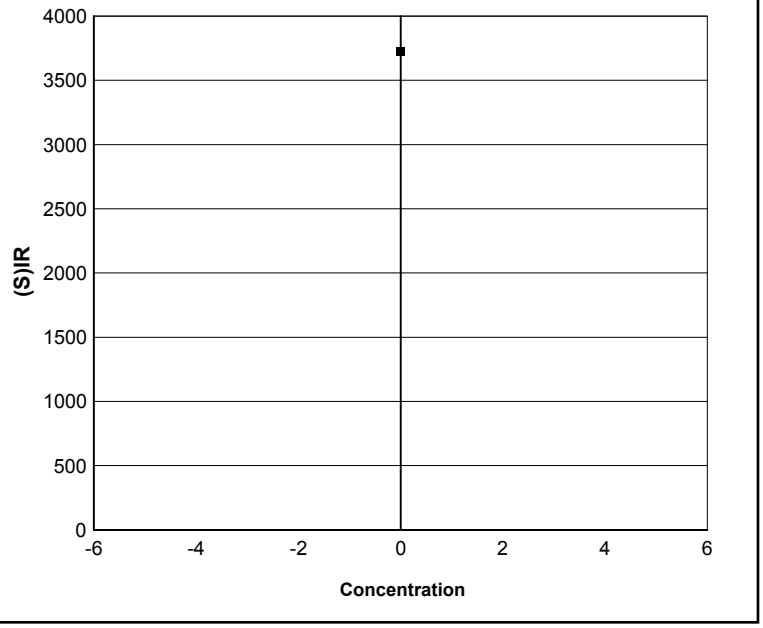
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000023437	-0.0000023437	0.00000	0.00089289	0.00076784	1
IC-4130962	0.050000	0.052332	0.0023318	4.6636	0.015985	0.00045055	1
IC-4121446	25.000	25.014	0.014286	0.057142	7.2147	0.044380	1
IC-4121445	50.000	49.983	-0.016617	-0.033235	14.416	0.0089667	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00051736
A1 (Gain):	0.017476
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

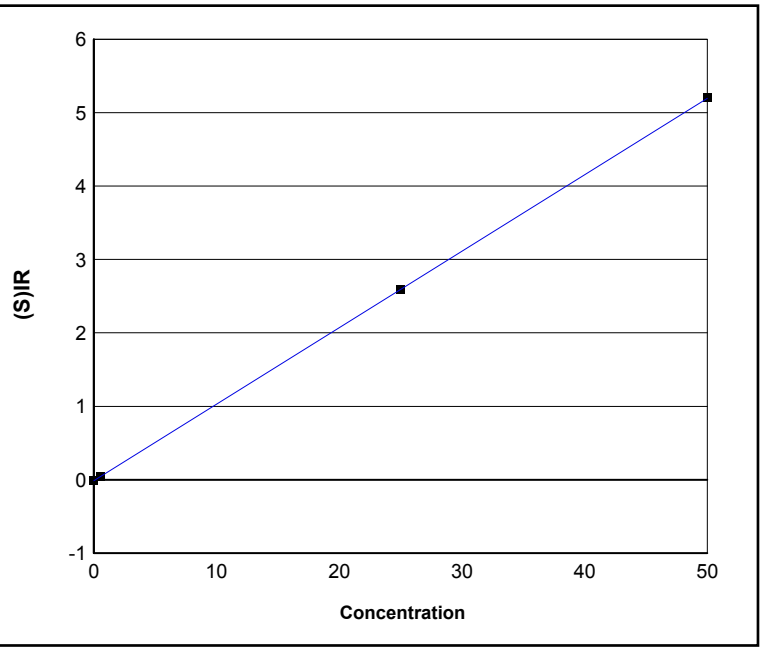
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.000016350	0.000016350	0.00000	-0.00051708	0.00028504	1
IC-4130962	0.050000	0.033581	-0.016419	-32.838	0.000069511	0.00040566	1
IC-4121446	25.000	25.052	0.052338	0.20935	0.43730	0.0062887	1
IC-4121445	50.000	49.964	-0.035920	-0.071839	0.87267	0.0033022	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:20:20AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

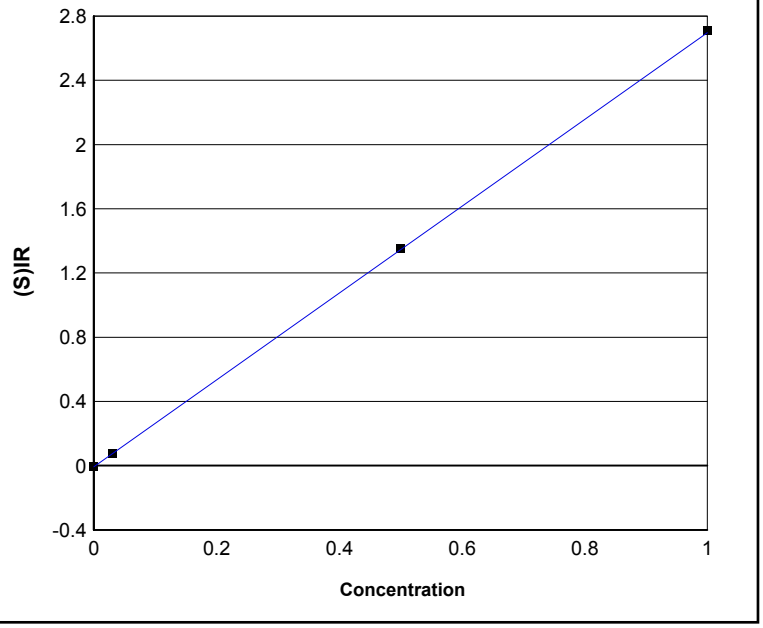
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	3,729	9.004	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.012694
A1 (Gain):	0.10417
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

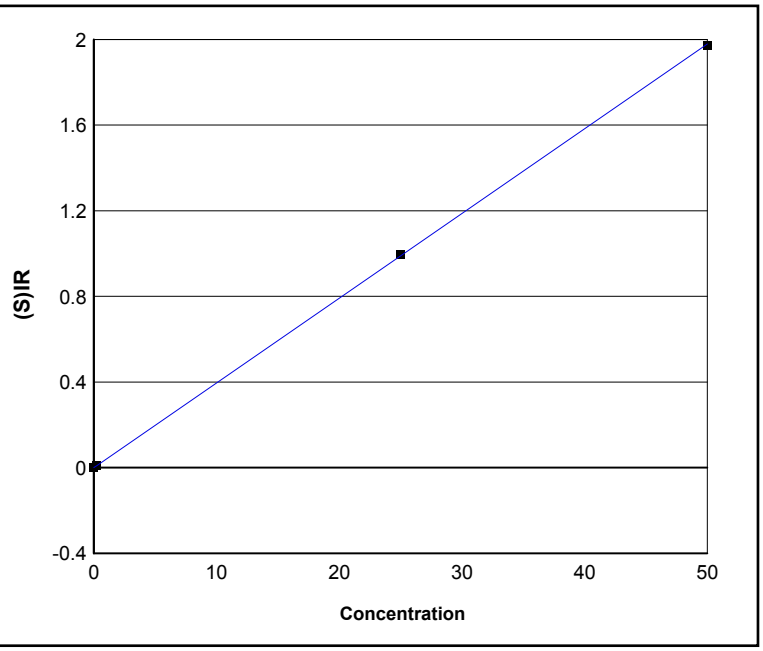
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000064334	-0.0000064334	0.00000	-0.012695	0.0018345	1
IC-4130962	0.50000	0.50712	0.0071193	1.4239	0.040135	0.0027496	1
IC-4121446	25.000	24.939	-0.061474	-0.24590	2.5853	0.015724	1
IC-4121445	50.000	50.054	0.054355	0.10871	5.2017	0.012347	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0060509
A1 (Gain):	2.7032
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

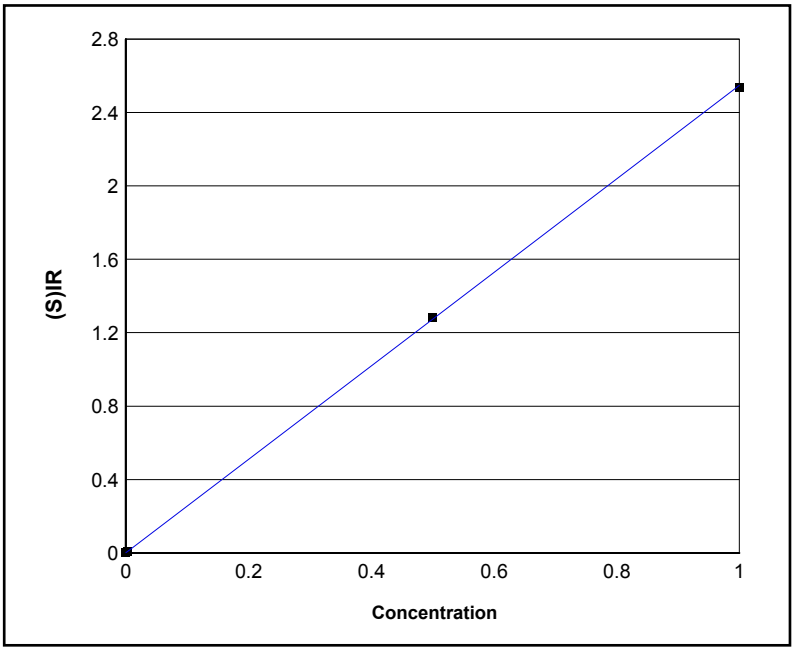
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001936	0.0000001936	0.00000	-0.0060504	0.0071706	1
IC-4130962	0.030000	0.029773	-0.00022683	-0.75610	0.074568	0.0019075	1
IC-4121446	0.50000	0.50088	0.00088281	0.17656	1.3547	0.0022025	1
IC-4121445	1.0000	0.99934	-0.00065674	-0.065674	2.7089	0.0057251	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00013111
A1 (Gain):	0.039571
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

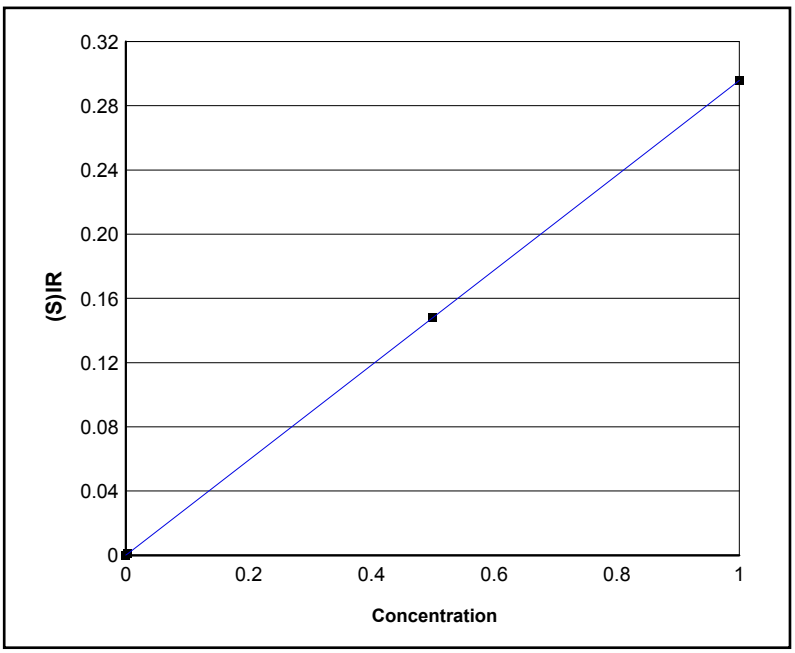
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000093898	-0.0000093898	0.00000	-0.00013149	0.00010812	1
IC-4130962	0.20000	0.20898	0.0089783	4.4892	0.0081381	0.000092330	1
IC-4121446	25.000	25.112	0.11184	0.44736	0.99353	0.0059442	1
IC-4121445	50.000	49.879	-0.12082	-0.24164	1.9736	0.0045216	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00085361
A1 (Gain):	2.5461
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

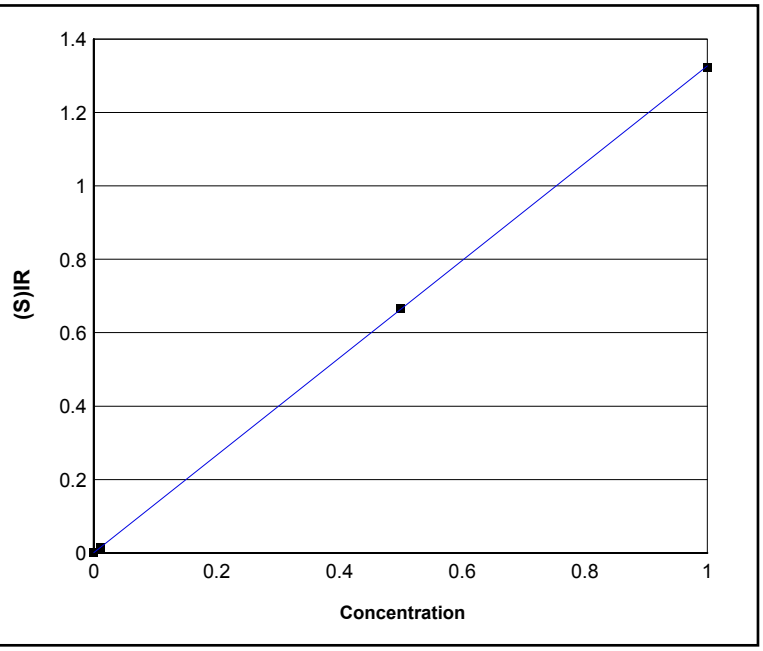
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001445	-0.0000001445	0.00000	0.00085324	0.000022232	1
IC-4130962	0.0030000	0.0031332	0.00013315	4.4383	0.0088339	0.000032756	1
IC-4121446	0.50000	0.50391	0.0039144	0.78288	1.2850	0.0052484	1
IC-4121445	1.0000	0.99595	-0.0040475	-0.40475	2.5389	0.0056761	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00016789
A1 (Gain):	0.29553
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

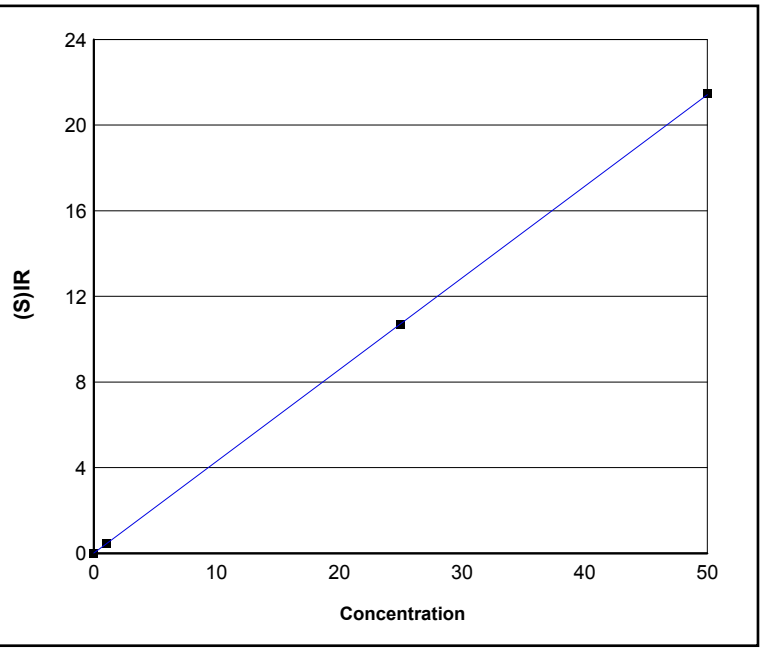
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001617	-0.0000001617	0.00000	0.00016784	0.000024218	1
IC-4130962	0.0030000	0.0031600	0.00016003	5.3343	0.0011021	0.00011011	1
IC-4121446	0.50000	0.50070	0.00070210	0.14042	0.14827	0.00068297	1
IC-4121445	1.0000	0.99914	-0.00086205	-0.086205	0.29570	0.0019691	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00046042
A1 (Gain):	1.3263
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

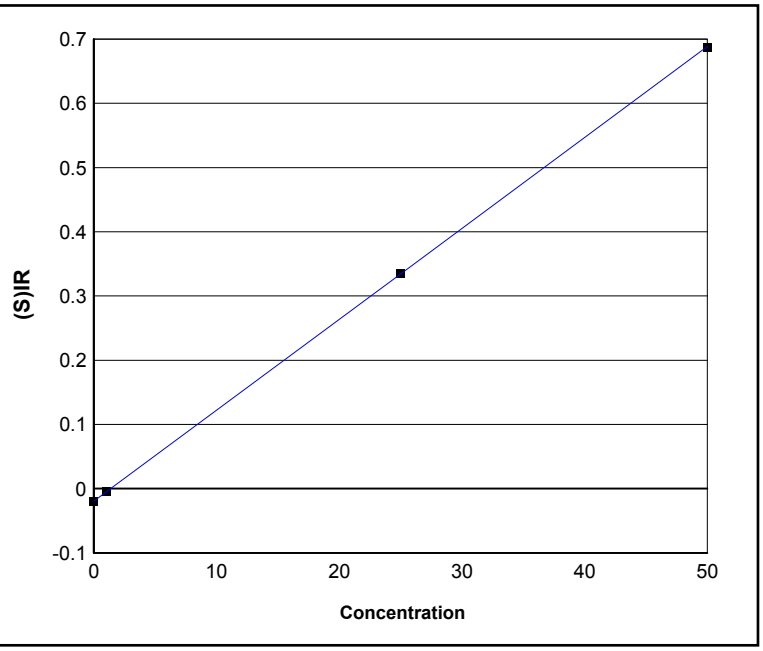
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001746	-0.0000001746	0.00000	0.00046019	0.00012656	1
IC-4130962	0.010000	0.010152	0.00015198	1.5198	0.013925	0.00020702	1
IC-4121446	0.50000	0.50242	0.0024175	0.48351	0.66681	0.000067690	1
IC-4121445	1.0000	0.99743	-0.0025695	-0.25695	1.3233	0.00015787	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0062164
A1 (Gain):	0.42843
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

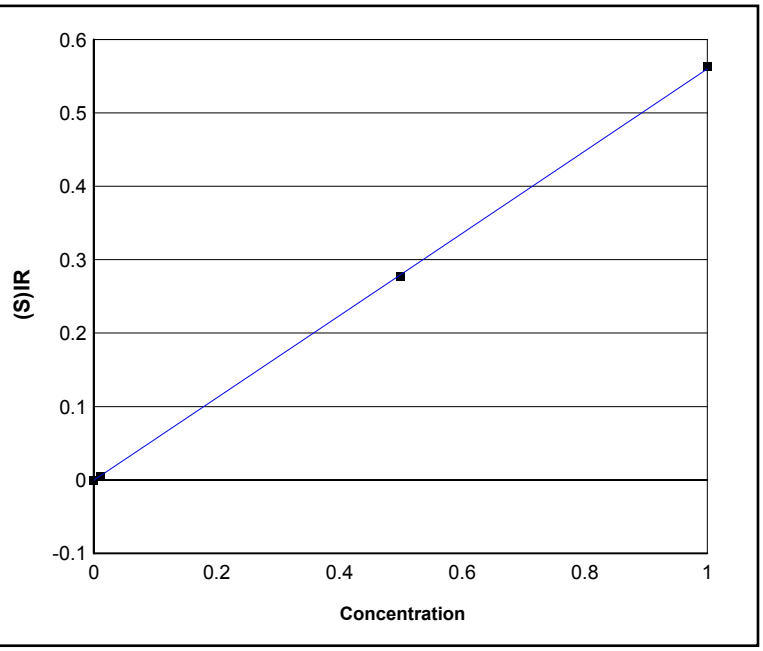
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000087417	0.0000087417	0.00000	0.0062202	0.0014888	1
IC-4130962	1.0000	0.99307	-0.0069269	-0.69269	0.43168	0.0010891	1
IC-4121446	25.000	24.902	-0.097671	-0.39068	10.675	0.065384	1
IC-4121445	50.000	50.105	0.10460	0.20919	21.473	0.012773	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.019553
A1 (Gain):	0.014165
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

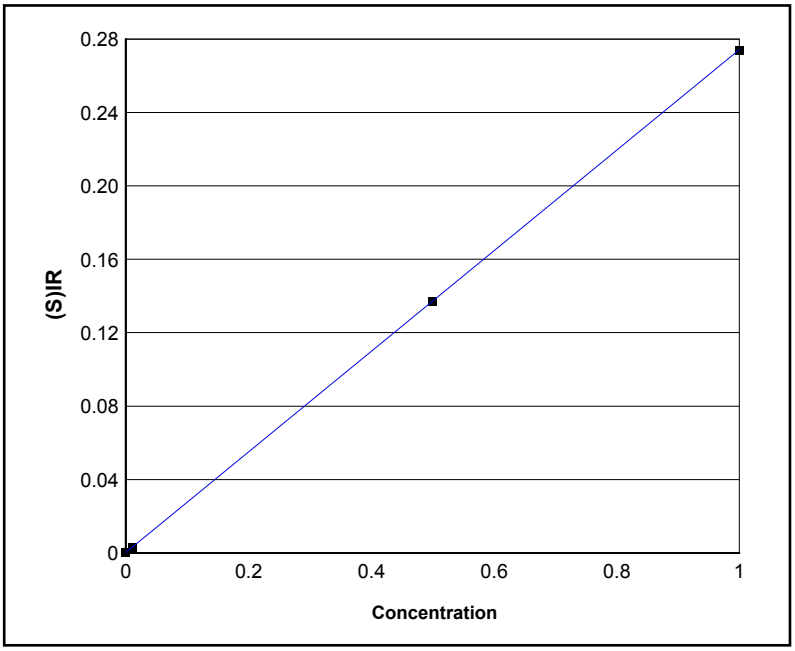
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000074052	-0.000074052	0.00000	-0.019554	0.00022175	1
IC-4130962	1.0000	1.0744	0.074369	7.4369	-0.0043349	0.0048272	1
IC-4121446	25.000	25.059	0.058519	0.23408	0.33540	0.0022421	1
IC-4121445	50.000	49.867	-0.13289	-0.26578	0.68681	0.00010222	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00058764
A1 (Gain):	0.56044
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

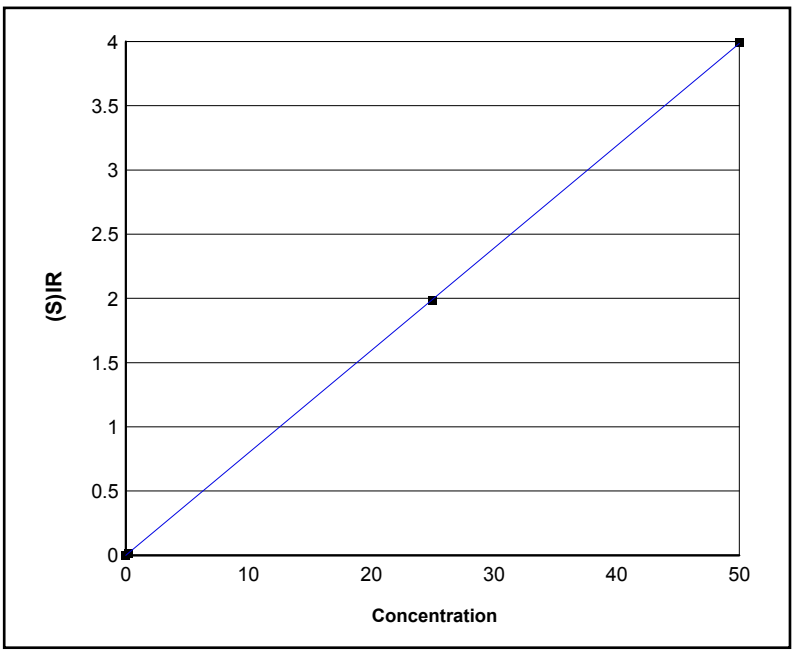
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002601	0.0000002601	0.00000	-0.00058749	0.000010307	1
IC-4130962	0.010000	0.0097825	-0.00021747	-2.1747	0.0048955	0.000038455	1
IC-4121446	0.50000	0.49552	-0.0044820	-0.89639	0.27742	0.00026362	1
IC-4121445	1.0000	1.0047	0.0046992	0.46992	0.56308	0.00026533	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00026391
A1 (Gain):	0.27405
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

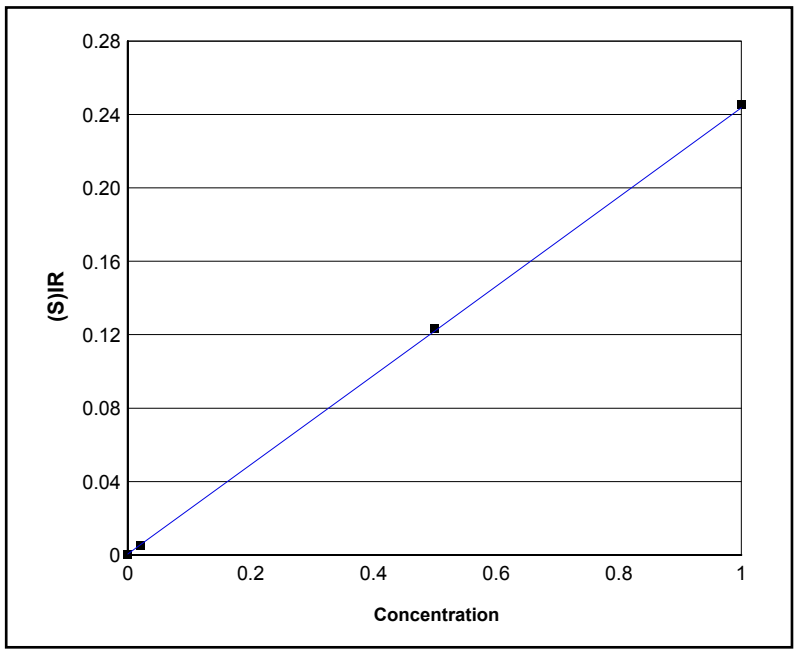
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003264	-0.0000003264	0.00000	0.00026382	0.00013697	1
IC-4130962	0.010000	0.010338	0.00033773	3.3773	0.0030911	0.00017984	1
IC-4121446	0.50000	0.49921	-0.00079061	-0.15812	0.13679	0.00014399	1
IC-4121445	1.0000	1.0005	0.00045289	0.045289	0.27387	0.00045786	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00013448
A1 (Gain):	0.079701
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

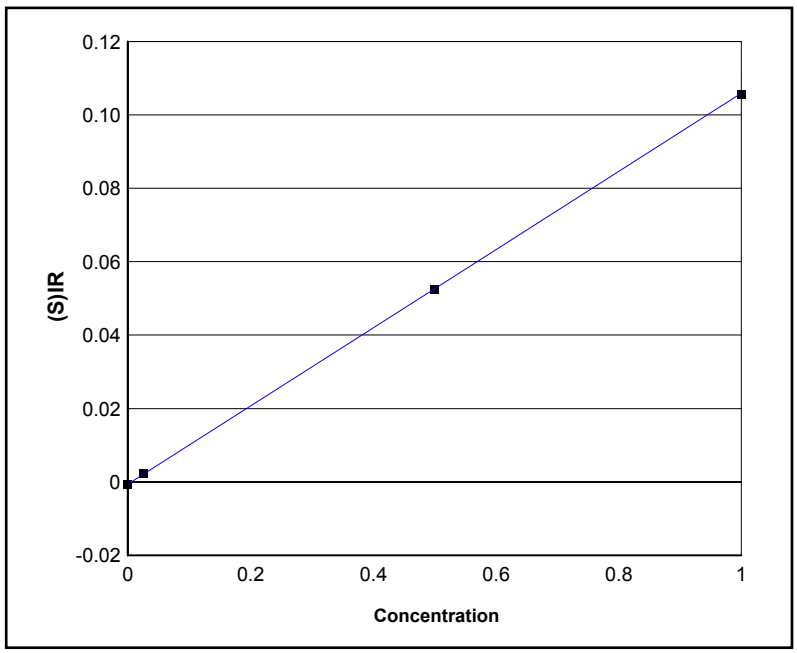
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000070605	0.0000070605	0.00000	0.00013505	0.0000037830	1
IC-4130962	0.20000	0.19333	-0.0066701	-3.3350	0.015543	0.00027462	1
IC-4121446	25.000	24.896	-0.10428	-0.41711	1.9844	0.0027207	1
IC-4121445	50.000	50.111	0.11095	0.22190	3.9940	0.0026131	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00042870
A1 (Gain):	0.24324
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

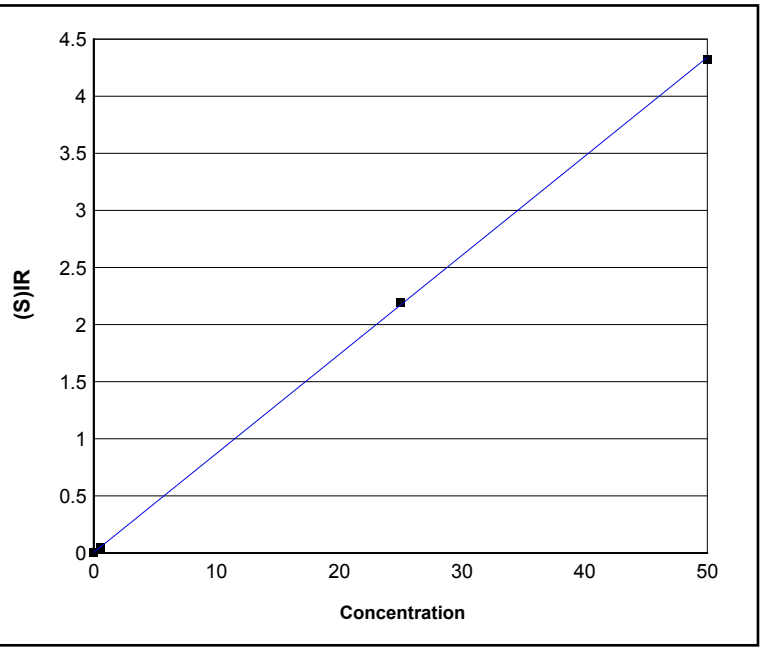
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001926	-0.0000001926	0.00000	0.00042865	0.00027983	1
IC-4130962	0.020000	0.020198	0.00019792	0.98958	0.0053528	0.0000046826	1
IC-4121446	0.50000	0.49993	-0.000071405	-0.014281	0.12306	0.00038816	1
IC-4121445	1.0000	0.99987	-0.00012531	-0.012531	0.24569	0.00037303	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.00063080
A1 (Gain):	0.10654
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

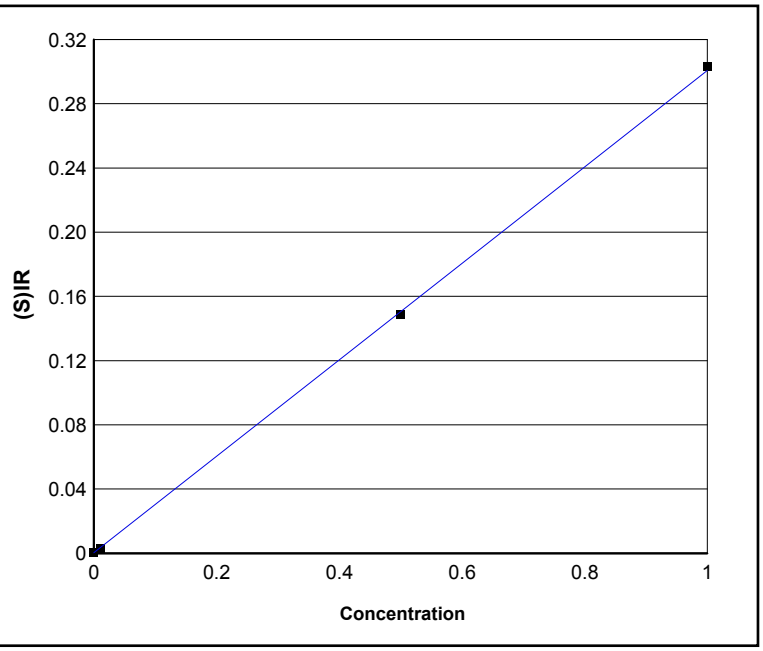
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000020306	-0.0000020306	0.00000	-0.00063102	0.00030070	1
IC-4130962	0.025000	0.027136	0.0021357	8.5428	0.0022593	0.000022157	1
IC-4121446	0.50000	0.49793	-0.0020669	-0.41338	0.052321	0.00018349	1
IC-4121445	1.0000	0.99993	-0.000072007	-0.0072007	0.10571	0.00091460	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0041093
A1 (Gain):	0.086744
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

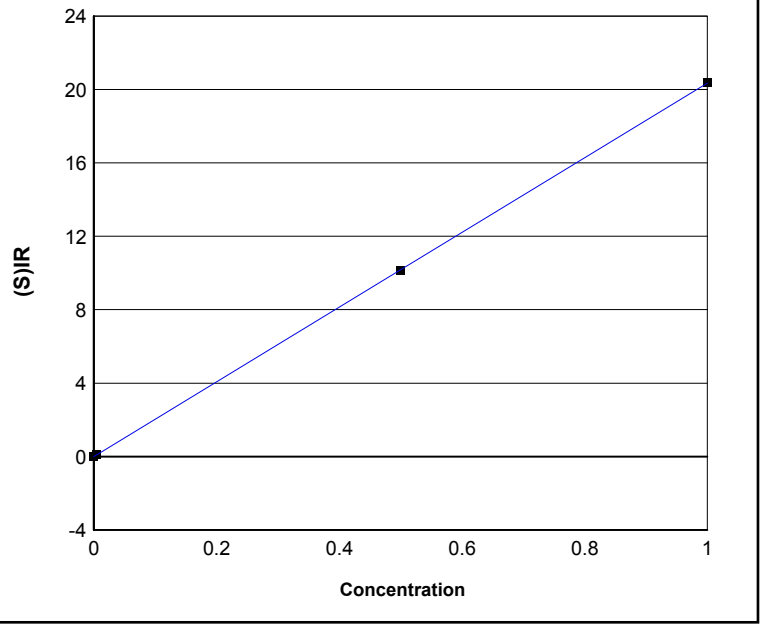
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000080451	-0.0000080451	0.00000	0.0041086	0.0015271	1
IC-4130962	0.50000	0.50588	0.0058807	1.1761	0.047991	0.0000083560	1
IC-4121446	25.000	25.222	0.22233	0.88930	2.1920	0.011092	1
IC-4121445	50.000	49.772	-0.22821	-0.45641	4.3215	0.011624	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.00044140
A1 (Gain):	0.30029
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

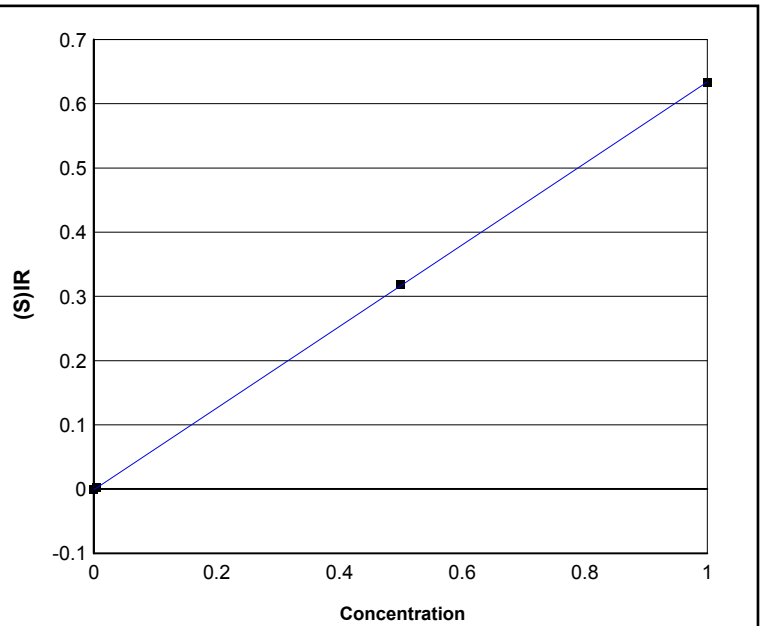
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000010010	0.0000010010	0.00000	0.00044170	0.00013772	1
IC-4130962	0.010000	0.0090530	-0.00094704	-9.4704	0.0031599	0.00014681	1
IC-4121446	0.50000	0.49366	-0.0063425	-1.2685	0.14868	0.00039202	1
IC-4121445	1.0000	1.0073	0.0072895	0.72895	0.30292	0.00096603	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0025384
A1 (Gain):	20.355
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

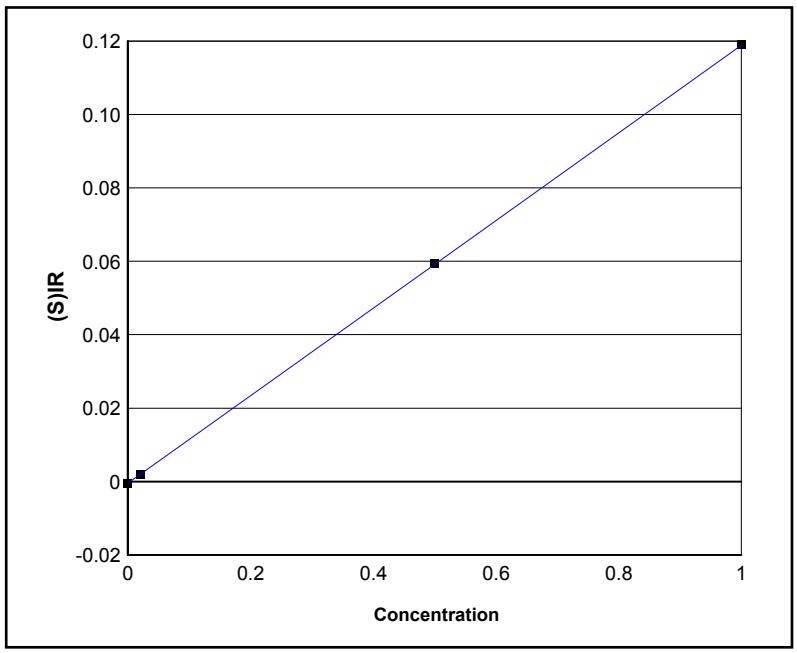
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001670	0.0000001670	0.00000	-0.0025350	0.0023578	1
IC-4130962	0.0050000	0.0048352	-0.00016483	-3.2966	0.095883	0.0026652	1
IC-4121446	0.50000	0.49941	-0.00059381	-0.11876	10.163	0.033383	1
IC-4121445	1.0000	1.0008	0.00075864	0.075864	20.368	0.015948	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00093379
A1 (Gain):	0.63498
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

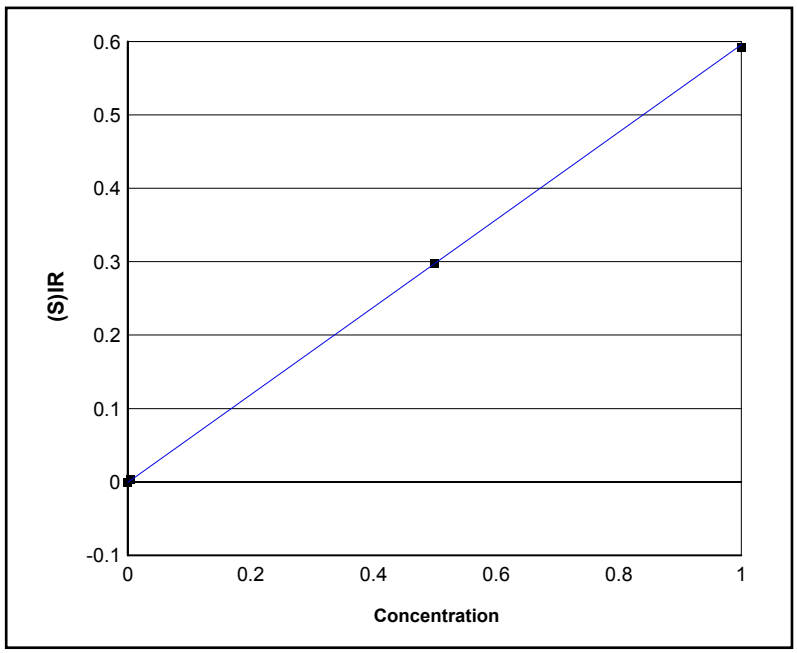
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000004324	-0.0000004324	0.00000	-0.00093407	0.00012894	1
IC-4130962	0.0050000	0.0054199	0.00041986	8.3972	0.0025156	0.00018452	1
IC-4121446	0.50000	0.50293	0.0029291	0.58582	0.31886	0.00067121	1
IC-4121445	1.0000	0.99665	-0.0033494	-0.33494	0.63280	0.0014117	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00046254
A1 (Gain):	0.11931
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

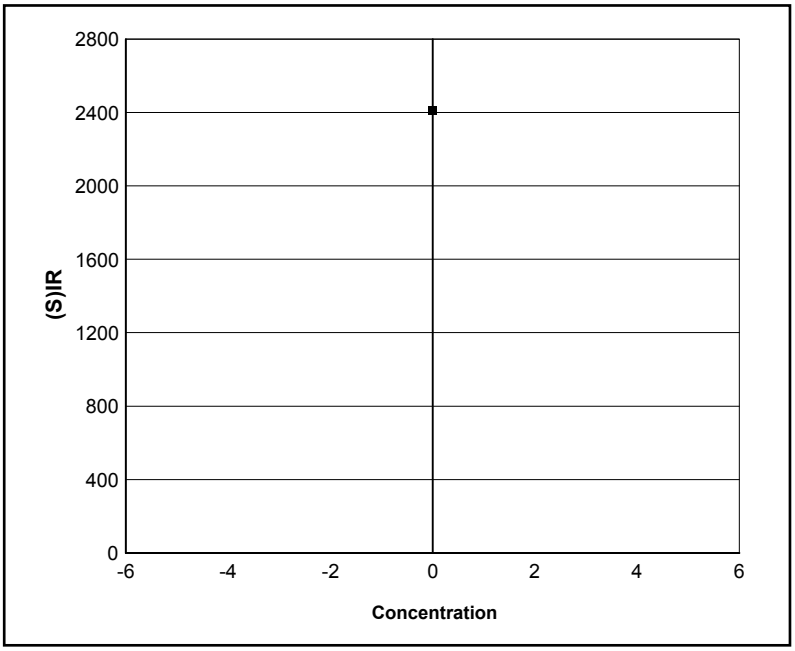
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003502	-0.0000003502	0.00000	-0.00046259	0.000062311	1
IC-4130962	0.020000	0.020354	0.00035404	1.7702	0.0019661	0.000077103	1
IC-4121446	0.50000	0.50016	0.00015940	0.031879	0.059306	0.00013827	1
IC-4121445	1.0000	0.99949	-0.00051291	-0.051291	0.11898	0.00049217	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00036739
A1 (Gain):	0.59610
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

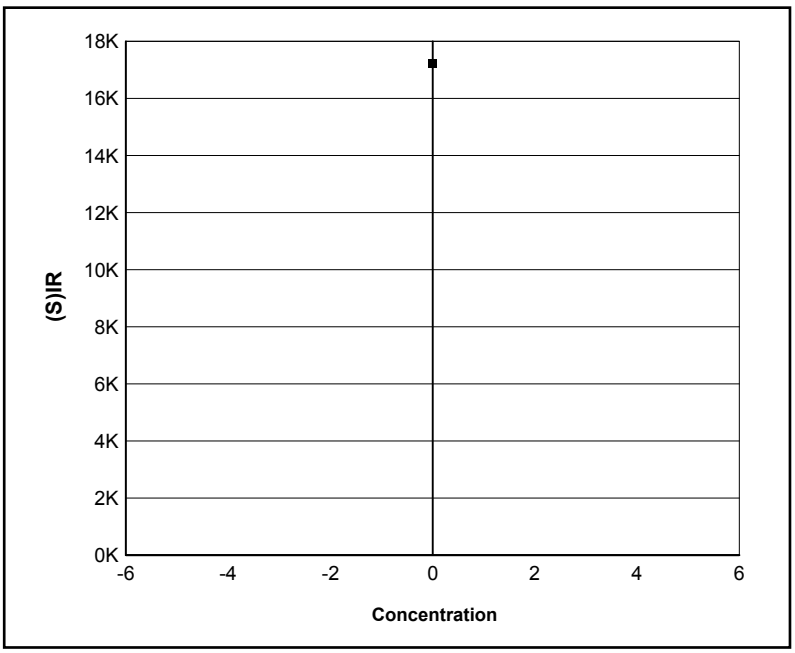
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000526	-0.0000000526	0.00000	-0.00036742	0.000098933	1
IC-4130962	0.0050000	0.0050375	0.000037473	0.74947	0.0026050	0.000066231	1
IC-4121446	0.50000	0.50306	0.0030550	0.61100	0.29826	0.00020731	1
IC-4121445	1.0000	0.99691	-0.0030923	-0.30923	0.59140	0.0041846	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:20:20AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

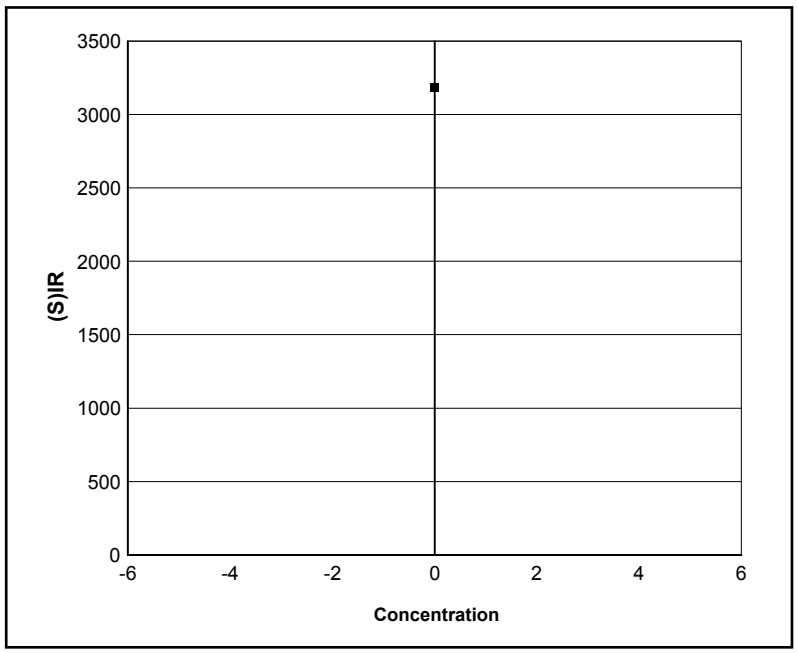
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	2,410	2.629	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:20:20AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

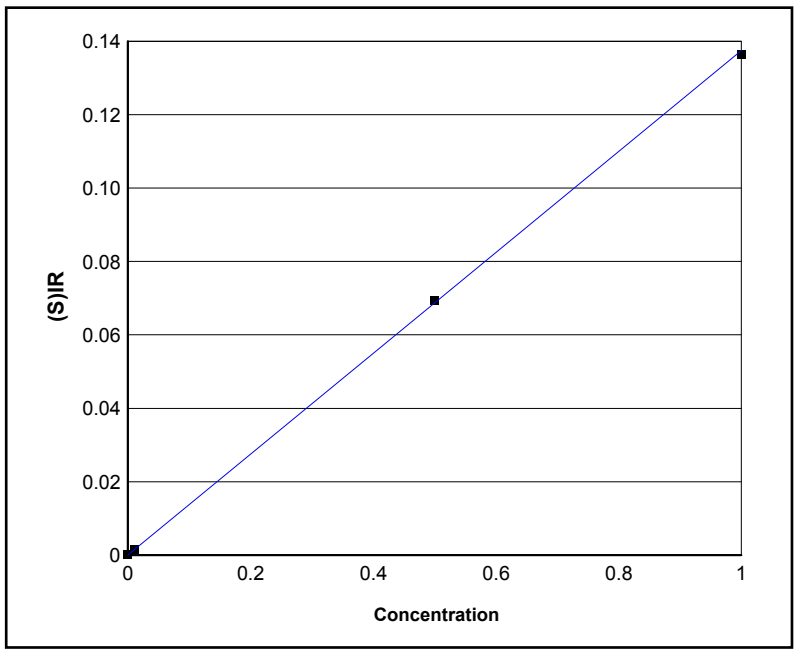
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	17,230	28.68	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:20:20AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	3,185	22.07	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.000013700
A1 (Gain):	0.13744
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000008896	-0.0000008896	0.00000	0.000013578	0.0000033506	1
IC-4130962	0.010000	0.010847	0.00084744	8.4744	0.0015035	0.000024573	1
IC-4121446	0.50000	0.50507	0.0050664	1.0133	0.069304	0.000088410	1
IC-4121445	1.0000	0.99409	-0.0059148	-0.59148	0.13639	0.00069544	1

Sample Name: ICIS-4130963 Acquired: 7/26/2017 10:16:55 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00010**	**.00168**	**-.00010**	**.00177**	**.01669**
Stddev	.00026	.00014	.00049	.00026	.00065
%RSD	252.51	8.0803	508.17	14.506	3.8859
#1	-.00029	.00178	.00025	.00159	.01623
#2	.00008	.00159	-.00044	.00195	.01715

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00719**	**.00035**	**.01204**	**.00033**	**.0038**
Stddev	.00001	.00001	.00053	.00074	.0018
%RSD	.16599	1.4998	4.3847	225.52	46.33
#1	.00719	.00036	.01167	-.00020	.0025
#2	.00720	.00035	.01241	.00085	.0050

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00004**	**-.00008**	**.00005**	**.00089**	**-.00052**
Stddev	.00015	.00002	.00003	.00077	.00029
%RSD	404.51	21.064	49.633	85.995	55.125
#1	-.00007	-.00007	.00007	.00144	-.00072
#2	.00015	-.00010	.00004	.00035	-.00032

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.01269**	**-.00605**	**-.00013**	**.00085**	**.00017**
Stddev	.00183	.00717	.00011	.00002	.00002
%RSD	14.451	118.52	82.228	2.6056	14.429
#1	-.01399	-.00098	-.00006	.00087	.00018
#2	-.01140	-.01112	-.00021	.00084	.00015

Sample Name: ICIS-4130963 Acquired: 7/26/2017 10:16:55 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00046**	**.00622**	**-.01955**	**-.00059**	**.00026**
Stddev	.00013	.00149	.00022	.00001	.00014
%RSD	27.501	23.935	1.1340	1.7545	51.918
#1	.00055	.00727	-.01971	-.00058	.00017
#2	.00037	.00517	-.01940	-.00059	.00036

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00014**	**.00043**	**-.00063**	**.00411**	**.00044**
Stddev	.00000	.00028	.00030	.00153	.00014
%RSD	2.8013	65.282	47.653	37.168	31.180
#1	.00014	.00063	-.00084	.00303	.00034
#2	.00013	.00023	-.00042	.00519	.00054

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00253**	**-.00093**	**-.00046**	**-.00037**	**.00001**
Stddev	.00236	.00013	.00006	.00010	.00000
%RSD	93.011	13.804	13.470	26.926	24.677
#1	-.00087	-.00084	-.00051	-.00044	.00001
#2	-.00420	-.00103	-.00042	-.00030	.00002

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3728.8**	**2410.1**	**17231.**	**3184.9**
Stddev	9.0	2.6	29.	22.1
%RSD	.24146	.10906	.16642	.69289
#1	3735.1	2412.0	17210.	3200.5
#2	3722.4	2408.3	17251.	3169.3

Sample Name: IC-4130962 Acquired: 7/26/2017 10:20:23 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00260**	**.01390**	**.00197**	**.01612**	**.03289**
Stddev	.00023	.00073	.00008	.00005	.00279
%RSD	8.7467	5.2164	3.9566	.31185	8.4754
#1	.00276	.01441	.00203	.01608	.03092
#2	.00244	.01339	.00192	.01615	.03487

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06411**	**.02753**	**.21255**	**.00858**	**.00575**
Stddev	.00128	.00058	.00003	.00002	.00007
%RSD	2.0024	2.1233	.01435	.23047	1.2655
#1	.06502	.02712	.21257	.00857	.00580
#2	.06320	.02794	.21253	.00860	.00570

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00172**	**.00411**	**.01599**	**.00007**	**.04013**
Stddev	.00016	.00023	.00045	.00041	.00275
%RSD	9.2777	5.5558	2.8185	583.58	6.8510
#1	.00161	.00427	.01630	-.00022	.04208
#2	.00183	.00395	.01567	.00036	.03819

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07457**	**.00814**	**.00883**	**.00110**	**.01392**
Stddev	.00191	.00009	.00003	.00011	.00021
%RSD	2.5581	1.1345	.37080	9.9907	1.4867
#1	.07592	.00807	.00881	.00102	.01407
#2	.07322	.00820	.00886	.00118	.01378

Sample Name: IC-4130962 Acquired: 7/26/2017 10:20:23 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.43168**	**-.00433**	**.00490**	**.00309**	**.01554**
Stddev	.00109	.00483	.00004	.00018	.00027
%RSD	.25230	111.36	.78552	5.8180	1.7669
#1	.43245	-.00092	.00492	.00322	.01535
#2	.43091	-.00775	.00487	.00296	.01574

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00535**	**.00226**	**.04799**	**.00316**	**.09588**
Stddev	.00000	.00002	.00001	.00015	.00267
%RSD	.08748	.98067	.01741	4.6460	2.7796
#1	.00536	.00228	.04799	.00306	.09400
#2	.00535	.00224	.04800	.00326	.09777

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00252**	**.00197**	**.00261**	**.00150**
Stddev	.00018	.00008	.00007	.00002
%RSD	7.3350	3.9216	2.5424	1.6344
#1	.00265	.00191	.00265	.00149
#2	.00239	.00202	.00256	.00152

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3733.2**	**2424.8**	**17294.**	**3224.0**
Stddev	2.4	.3	28.	4.4
%RSD	.06378	.01376	.15935	.13683
#1	3734.9	2425.0	17313.	3220.9
#2	3731.5	2424.5	17274.	3227.1

Sample Name: IC-4121446 Acquired: 7/26/2017 10:23:52 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.25057**	**1.4194**	**.06869**	**.37026**	**4.7437**
Stddev	.00042	.0018	.00021	.00044	.0304
%RSD	.16916	.12711	.31295	.11806	.63994
#1	.25027	1.4206	.06854	.36995	4.7652
#2	.25087	1.4181	.06884	.37057	4.7223

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13.744**	**6.5555**	**10.027**	**1.8664**	**.0377**
Stddev	.056	.0190	.045	.0028	.0022
%RSD	.41011	.29047	.44868	.14870	5.864
#1	13.704	6.5690	10.059	1.8683	.0393
#2	13.784	6.5420	9.9956	1.8644	.0362

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.74938**	**.18945**	**.18517**	**7.2147**	**.43730**
Stddev	.00017	.00032	.00066	.0444	.00629
%RSD	.02250	.16903	.35890	.61513	1.4381
#1	.74950	.18922	.18470	7.2461	.44175
#2	.74926	.18968	.18564	7.1834	.43286

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.5853**	**1.3547**	**.99353**	**1.2850**	**.14827**
Stddev	.0157	.0022	.00594	.0053	.00068
%RSD	.60821	.16258	.59830	.40844	.46062
#1	2.5964	1.3563	.98932	1.2813	.14779
#2	2.5741	1.3531	.99773	1.2887	.14875

Sample Name: IC-4121446 Acquired: 7/26/2017 10:23:52 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.66681**	**10.675**	**.33540**	**.27742**	**.13679**
Stddev	.00007	.065	.00224	.00026	.00014
%RSD	.01015	.61248	.66847	.09502	.10526
#1	.66685	10.721	.33698	.27761	.13669
#2	.66676	10.629	.33381	.27723	.13689

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.9844**	**.12306**	**.05232**	**2.1920**	**.14868**
Stddev	.0027	.00039	.00018	.0111	.00039
%RSD	.13711	.31543	.35071	.50604	.26366
#1	1.9863	.12333	.05245	2.1998	.14840
#2	1.9824	.12278	.05219	2.1842	.14896

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.163**	**.31886**	**.05931**	**.29826**	**.06930**
Stddev	.033	.00067	.00014	.00021	.00009
%RSD	.32848	.21051	.23315	.06951	.12757
#1	10.187	.31838	.05921	.29840	.06924
#2	10.139	.31933	.05940	.29811	.06937

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3397.9**	**2376.8**	**16746.**	**3217.5**
Stddev	.6	4.6	87.	9.7
%RSD	.01808	.19487	.51681	.30003
#1	3398.3	2373.6	16807.	3210.7
#2	3397.4	2380.1	16685.	3224.3

Sample Name: IC-4121445 Acquired: 7/26/2017 10:27:04 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.49769**	**2.8259**	**.13862**	**.73616**	**9.5600**
Stddev	.00135	.0043	.00027	.00108	.0076
%RSD	.27126	.15046	.19222	.14686	.07964
#1	.49865	2.8289	.13843	.73540	9.5546
#2	.49674	2.8229	.13881	.73693	9.5654

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**27.076**	**12.954**	**19.964**	**3.7370**	**.0791**
Stddev	.097	.002	.014	.0007	.0026
%RSD	.35745	.01503	.07195	.01801	3.248
#1	27.007	12.952	19.974	3.7366	.0809
#2	27.144	12.955	19.953	3.7375	.0773

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.5203**	**.37375**	**.36985**	**14.416**	**.87267**
Stddev	.0016	.00254	.00054	.009	.00330
%RSD	.10313	.67901	.14546	.06220	.37840
#1	1.5192	.37555	.37023	14.409	.87033
#2	1.5214	.37196	.36947	14.422	.87500

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.2017**	**2.7089**	**1.9736**	**2.5389**	**.29570**
Stddev	.0124	.0057	.0045	.0057	.00197
%RSD	.23737	.21134	.22911	.22357	.66590
#1	5.1930	2.7130	1.9767	2.5429	.29710
#2	5.2104	2.7049	1.9704	2.5349	.29431

Sample Name: IC-4121445 Acquired: 7/26/2017 10:27:04 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3233**	**21.473**	**.68681**	**.56308**	**.27387**
Stddev	.0002	.013	.00010	.00027	.00046
%RSD	.01193	.05949	.01488	.04712	.16718
#1	1.3232	21.464	.68688	.56327	.27419
#2	1.3234	21.482	.68674	.56290	.27355

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.9940**	**.24569**	**.10571**	**4.3215**	**.30292**
Stddev	.0026	.00037	.00091	.0116	.00097
%RSD	.06542	.15183	.86524	.26897	.31891
#1	3.9922	.24596	.10635	4.3133	.30224
#2	3.9959	.24543	.10506	4.3297	.30360

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**20.368**	**.63280**	**.11898**	**.59140**	**.13639**
Stddev	.016	.00141	.00049	.00418	.00070
%RSD	.07830	.22309	.41367	.70759	.50990
#1	20.357	.63380	.11863	.59436	.13688
#2	20.380	.63181	.11932	.58844	.13590

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3229.8**	**2335.0**	**16543.**	**3205.3**
Stddev	1.6	.2	77.	17.4
%RSD	.04889	.01042	.46761	.54293
#1	3230.9	2335.1	16488.	3217.6
#2	3228.7	2334.8	16598.	3193.0

Sample Name: ICV-4147886 Acquired: 7/26/2017 10:30:19 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36686**	**18.973**	**.37598**	**.38086**	**.37770**
Stddev	.00038	.171	.00132	.00015	.00077
%RSD	.10355	.90039	.35133	.03941	.20360
#1	.36659	18.853	.37505	.38096	.37825
#2	.36713	19.094	.37692	.38075	.37716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38475**	**19.037**	**.37839**	**-.0224**	**.37119**
Stddev	.00095	.113	.00004	.0063	.00002
%RSD	.24707	.59503	.01124	28.23	.00644
#1	.38408	18.957	.37842	-.0179	.37118
#2	.38542	19.117	.37836	-.0269	.37121
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38400**	**.38270**	**18.874**	**19.151**	**.37482**
Stddev	.00157	.00162	.073	.059	.00240
%RSD	.40767	.42374	.38878	.30849	.64078
#1	.38290	.38385	18.822	19.109	.37312
#2	.38511	.38156	18.926	19.192	.37651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4147886 Acquired: 7/26/2017 10:30:19 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.985**	**.38957**	**.37984**	**18.886**	**.37803**
Stddev	.001	.00054	.00046	.070	.00070
%RSD	.00312	.13817	.12194	.37019	.18512
#1	18.985	.38995	.38016	18.837	.37852
#2	18.986	.38919	.37951	18.936	.37753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37382**	**18.532**	**.37638**	**.37580**	**18.536**
Stddev	.00253	.017	.00043	.00322	.031
%RSD	.67640	.09156	.11423	.85558	.16568
#1	.37561	18.520	.37607	.37808	18.514
#2	.37203	18.544	.37668	.37353	18.558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37937**	**.37327**	**.37834**	**.37811**	**.37804**
Stddev	.00090	.00128	.00031	.00053	.00147
%RSD	.23730	.34403	.08144	.13891	.38904
#1	.38001	.37236	.37856	.37848	.37700
#2	.37874	.37417	.37812	.37774	.37908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4147886 Acquired: 7/26/2017 10:30:19 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	W .39708
Stddev	.00100
%RSD	.25243
#1	.39637
#2	.39779
Check ?	Chk Warn
Value	.37500
Range	5.0000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3456.0	2391.4	16942.	3205.2
Stddev	3.8	3.9	49.	20.4
%RSD	.10925	.16213	.29071	.63532
#1	3453.4	2388.6	16977.	3219.6
#2	3458.7	2394.1	16907.	3190.8

Sample Name: ICB-4130963 Acquired: 7/26/2017 10:33:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00772**	**-.00139**	**.00157**	**.00001**
Stddev	.00110	.00227	.00125	.00021	.00003
%RSD	325.56	29.434	89.437	13.043	302.63
#1	-.00044	.00933	-.00227	.00172	.00003
#2	.00111	.00611	-.00051	.00143	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00160**	**.00006**	**-.0172**	**-.00009**
Stddev	.00003	.00330	.00002	.0102	.00001
%RSD	741.66	206.12	35.790	59.34	13.158
#1	-.00002	-.00394	.00004	-.0100	-.00008
#2	.00003	.00073	.00007	-.0244	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.00020**	**.00235**	**.01431**	**-.00059**
Stddev	.00068	.00048	.00097	.06169	.00088
%RSD	95.878	240.99	41.315	431.21	147.84
#1	.00119	.00014	.00304	-.02931	-.00121
#2	.00023	-.00054	.00166	.05793	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4130963 Acquired: 7/26/2017 10:33:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**.00004**	**.00004**	**-.00105**	**-.00016**
Stddev	.00366	.00006	.00025	.00440	.00009
%RSD	239.53	150.48	680.45	420.77	52.862
#1	.00411	-.00000	-.00014	.00206	-.00022
#2	-.00106	.00008	.00021	-.00415	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00012**	**-.00004**	**.00138**	**.01780**
Stddev	.00002	.00294	.00050	.00242	.00510
%RSD	8.0386	2529.3	1277.0	175.87	28.652
#1	-.00026	-.00196	.00031	.00309	.01419
#2	-.00023	.00219	-.00039	-.00034	.02141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00002**	**.00016**	**.00068**	**-.00023**
Stddev	.00015	.00007	.00025	.00069	.00022
%RSD	53.214	370.30	156.33	100.95	99.703
#1	-.00038	-.00003	.00034	.00117	-.00007
#2	-.00017	.00007	-.00002	.00020	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4130963 Acquired: 7/26/2017 10:33:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00030
Stddev	.00020
%RSD	66.636
#1	.00044
#2	.00016
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3734.3	2415.5	17221.	3197.6
Stddev	5.5	2.6	4.	32.0
%RSD	.14672	.10754	.02375	.99993
#1	3730.4	2413.6	17218.	3175.0
#2	3738.2	2417.3	17224.	3220.2

Sample Name: ICVL-4147888 Acquired: 7/26/2017 10:37:00 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**.21306**	**.01564**	**.02135**	**.00212**
Stddev	.00033	.00499	.00114	.00002	.00005
%RSD	5.6822	2.3440	7.3168	.08859	2.2881
#1	.00562	.20953	.01483	.02133	.00216
#2	.00609	.21659	.01645	.02136	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.51155**	**.00214**	**-.0249**	**.00386**
Stddev	.00002	.00324	.00002	.0001	.00008
%RSD	.99617	.63409	1.0367	.2296	2.0417
#1	.00210	.50926	.00216	-.0249	.00381
#2	.00207	.51385	.00213	-.0249	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00437**	**.01053**	**.05259**	**.54191**	**.02979**
Stddev	.00007	.00038	.00121	.02802	.00073
%RSD	1.7044	3.6082	2.3031	5.1700	2.4633
#1	.00443	.01026	.05344	.56173	.03031
#2	.00432	.01080	.05173	.52210	.02928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4147888 Acquired: 7/26/2017 10:37:00 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20612**	**.00307**	**.01032**	**1.0159**	**.00964**
Stddev	.00147	.00005	.00011	.0089	.00004
%RSD	.71485	1.6512	1.0480	.87714	.41162
#1	.20716	.00303	.01039	1.0222	.00961
#2	.20508	.00310	.01024	1.0096	.00967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01004**	**.19723**	**.02032**	**.02775**	**.53065**
Stddev	.00111	.00114	.00029	.00012	.00904
%RSD	11.023	.57710	1.4066	.41989	1.7027
#1	.01082	.19643	.02011	.02767	.52426
#2	.00926	.19804	.02052	.02783	.53704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00931**	**.00492**	**.00448**	**.02041**	**.00494**
Stddev	.00028	.00011	.00046	.00084	.00027
%RSD	3.0544	2.3331	10.279	4.1240	5.4203
#1	.00951	.00500	.00416	.01982	.00513
#2	.00911	.00484	.00481	.02101	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4147888 Acquired: 7/26/2017 10:37:00 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01064
Stddev	.00029
%RSD	2.6885
#1	.01044
#2	.01084
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3753.3	2428.8	17398.	3190.5
Stddev	1.5	2.4	55.	7.9
%RSD	.04055	.10083	.31349	.24908
#1	3752.2	2427.0	17437.	3184.9
#2	3754.3	2430.5	17360.	3196.1

Sample Name: ICSA-4090634 Acquired: 7/26/2017 10:40:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00204**	**511.75**	**.00362**	**-.00074**	**.00073**
Stddev	.00115	1.87	.00331	.00012	.00002
%RSD	56.451	.36459	91.263	15.944	3.2232
#1	-.00122	513.07	.00596	-.00082	.00072
#2	-.00285	510.43	.00128	-.00066	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**476.28**	**-.00025**	**.0091**	**-.00074**
Stddev	.00001	2.00	.00022	.0331	.00035
%RSD	8.2182	.42053	86.282	362.3	47.285
#1	-.00013	474.86	-.00041	-.0143	-.00049
#2	-.00012	477.70	-.00010	.0325	-.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00371**	**189.76**	**.02851**	**-.01844**
Stddev	.00016	.00106	.54	.01079	.00089
%RSD	29.173	28.571	.28408	37.837	4.8436
#1	-.00042	-.00446	190.14	.02089	-.01907
#2	-.00064	-.00296	189.38	.03614	-.01781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 7/26/2017 10:40:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**525.74**	**.00029**	**-.00146**	**.04743**	**-.00225**
Stddev	.01	.00005	.00005	.00061	.00081
%RSD	.00119	18.496	3.5841	1.2784	35.875
#1	525.74	.00026	-.00142	.04701	-.00282
#2	525.75	.00033	-.00150	.04786	-.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00358**	**.05499**	**.00274**	**.00408**	**.03414**
Stddev	.00126	.00187	.00070	.00065	.00566
%RSD	35.233	3.4032	25.724	15.897	16.573
#1	-.00447	.05367	.00224	.00454	.03014
#2	-.00269	.05632	.00324	.00362	.03814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00301**	**.03145**	**-.00037**	**-.00247**	**.00173**
Stddev	.00068	.00002	.00028	.00084	.00003
%RSD	22.528	.04961	75.516	34.090	1.9966
#1	.00253	.03147	-.00017	-.00188	.00171
#2	.00349	.03144	-.00056	-.00307	.00176
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 7/26/2017 10:40:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00567
Stddev	.00044
%RSD	7.7084
#1	.00598
#2	.00536
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2730.5	2169.8	15010.	3110.1
Stddev	1.7	3.3	6.	4.5
%RSD	.06335	.15112	.04239	.14390
#1	2729.2	2167.4	15014.	3106.9
#2	2731.7	2172.1	15005.	3113.3

Sample Name: ICSAB-4093406 Acquired: 7/26/2017 10:43:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22100**	**534.92**	**.10651**	**.00275**	**.50006**
Stddev	.00127	2.28	.00248	.00008	.00176
%RSD	.57609	.42606	2.3284	2.9144	.35256
#1	.22010	533.31	.10826	.00269	.49882
#2	.22190	536.53	.10475	.00281	.50131
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51134**	**479.84**	**1.0169**	**.0378**	**.49390**
Stddev	.00112	1.80	.0004	.0108	.00003
%RSD	.21807	.37489	.03736	28.53	.00574
#1	.51055	478.56	1.0166	.0302	.49388
#2	.51213	481.11	1.0172	.0454	.49392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48656**	**.53265**	**97.128**	**.05140**	**.49579**
Stddev	.00191	.00366	.925	.03225	.00443
%RSD	.39224	.68628	.95284	62.742	.89346
#1	.48791	.53006	96.474	.07420	.49266
#2	.48521	.53523	97.782	.02859	.49893
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-4093406 Acquired: 7/26/2017 10:43:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**546.73**	**.50625**	**-.00057**	**.17636**	**.97994**
Stddev	.15	.00019	.00040	.00332	.00143
%RSD	.02736	.03691	69.940	1.8799	.14561
#1	546.63	.50612	-.00029	.17870	.97893
#2	546.84	.50638	-.00086	.17401	.98095
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05008**	**1.0379**	**.60178**	**.04925**	**.99956**
Stddev	.00026	.0032	.00184	.00198	.00693
%RSD	.51792	.31168	.30517	4.0184	.69327
#1	.05027	1.0402	.60048	.04786	.99466
#2	.04990	1.0356	.60308	.05065	1.0045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00274**	**.48563**	**.00098**	**.09886**	**.50891**
Stddev	.00096	.00146	.00008	.00169	.00018
%RSD	35.120	.30001	7.9905	1.7110	.03538
#1	.00342	.48460	.00093	.10006	.50878
#2	.00206	.48666	.00104	.09767	.50903
Check ?	None	None	None	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICSAB-4093406 Acquired: 7/26/2017 10:43:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.93439
Stddev	.00268
%RSD	.28659
#1	.93249
#2	.93628
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2731.1	2166.6	14911.	3138.0
Stddev	.7	1.2	60.	4.5
%RSD	.02433	.05664	.40000	.14379
#1	2731.6	2167.5	14953.	3141.2
#2	2730.7	2165.8	14869.	3134.8

Sample Name: ICEX1 Acquired: 7/26/2017 10:47:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.05942**	**4.9724**	**.00033**	**.00010**
Stddev	.00078	.00004	.0023	.00006	.00000
%RSD	180.96	.07571	.04674	17.694	3.1051
#1	.00012	.05945	4.9708	.00038	.00009
#2	-.00098	.05939	4.9740	.00029	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.04755**	**-.00092**	**-.0351**	**.00004**
Stddev	.00007	.00283	.00026	.0065	.00007
%RSD	18.102	5.9531	28.210	18.65	185.41
#1	.00045	.04956	-.00073	-.0305	-.00001
#2	.00035	.04555	-.00110	-.0397	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**26.806**	**.00586**	**.04025**	**-.00058**
Stddev	.00008	.007	.00072	.00136	.00100
%RSD	15.331	.02719	12.345	3.3827	173.77
#1	.00061	26.801	.00637	.03928	-.00128
#2	.00049	26.811	.00535	.04121	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 7/26/2017 10:47:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01208**	**.00024**	**.00028**	**.01401**	**.00025**
Stddev	.00602	.00001	.00001	.00201	.00009
%RSD	49.866	6.0238	2.5007	14.363	34.022
#1	.00782	.00023	.00029	.01259	.00031
#2	.01633	.00025	.00028	.01544	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00151**	**.00434**	**.00115**	**.00302**	**.02757**
Stddev	.00094	.00044	.00099	.00017	.00237
%RSD	61.901	10.257	85.972	5.6701	8.5852
#1	-.00085	.00465	.00185	.00289	.02590
#2	-.00218	.00402	.00045	.00314	.02925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00006**	**.00014**	**.01235**	**5.0361**
Stddev	.00024	.00005	.00006	.00005	.0236
%RSD	601.81	87.347	43.792	.38861	.46759
#1	-.00021	-.00002	.00009	.01239	5.0195
#2	.00013	-.00010	.00018	.01232	5.0528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 7/26/2017 10:47:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00521
Stddev	.00003
%RSD	.51870
#1	.00519
#2	.00523
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3747.6	2424.9	17378.	3220.3
Stddev	4.3	3.7	45.	11.3
%RSD	.11345	.15459	.25996	.35108
#1	3750.6	2427.5	17410.	3228.3
#2	3744.6	2422.2	17346.	3212.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.50%	100.61%	100.86%	101.11%
Range				

Sample Name: ICEX2 Acquired: 7/26/2017 10:50:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00190**	**.07581**	**.00431**	**.01130**	**.00004**
Stddev	.00102	.00620	.00150	.00015	.00002
%RSD	53.880	8.1738	34.833	1.3280	59.070
#1	-.00263	.07143	.00537	.01119	.00002
#2	-.00118	.08019	.00325	.01140	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00141**	**.01613**	**.00045**	**-.0457**	**.00173**
Stddev	.00008	.00314	.00034	.0320	.00003
%RSD	5.7698	19.452	74.750	70.08	1.7515
#1	-.00135	.01834	.00069	-.0684	.00175
#2	-.00147	.01391	.00021	-.0231	.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**-.00926**	**-.00147**	**.00340**	**-.00146**
Stddev	.00030	.00026	.00064	.01689	.00075
%RSD	47.099	2.8464	43.496	496.49	51.676
#1	.00086	-.00944	-.00192	-.00854	-.00092
#2	.00043	-.00907	-.00102	.01535	-.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 7/26/2017 10:50:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01908**	**.00201**	**-.00014**	**.00971**	**.00439**
Stddev	.00405	.00013	.00029	.00508	.00002
%RSD	21.221	6.4221	198.19	52.278	.53366
#1	.02194	.00192	.00006	.00612	.00441
#2	.01621	.00210	-.00035	.01331	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00136**	**.00719**	**.00784**	**-.00013**	**.33673**
Stddev	.00045	.00156	.00018	.00174	.04085
%RSD	33.038	21.679	2.3275	1316.7	12.131
#1	.00168	.00829	.00771	.00110	.30785
#2	.00104	.00609	.00797	-.00137	.36562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00392**	**.00002**	**19.483**	**19.921**	**-.00289**
Stddev	.00063	.00001	.003	.026	.00041
%RSD	16.107	51.748	.01736	.13117	14.063
#1	-.00437	.00001	19.485	19.939	-.00318
#2	-.00348	.00003	19.480	19.902	-.00261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 7/26/2017 10:50:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00236
Stddev	.00039
%RSD	16.572
#1	.00264
#2	.00208
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3714.1	2417.5	17185.	3204.6
Stddev	1.8	2.8	7.	13.2
%RSD	.04920	.11469	.04292	.41237
#1	3712.9	2419.4	17179.	3195.3
#2	3715.4	2415.5	17190.	3213.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.608%	100.30%	99.733%	100.62%
Range				

Sample Name: ICEX3 Acquired: 7/26/2017 10:54:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00300**	**.06170**	**.00274**	**-.00033**	**.00013**
Stddev	.00066	.00350	.00084	.00027	.00002
%RSD	21.857	5.6755	30.617	81.744	12.795
#1	-.00347	.06418	.00333	-.00053	.00012
#2	-.00254	.05923	.00214	-.00014	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.03776**	**.00031**	**-.2312**	**-.00009**
Stddev	.00002	.00264	.00038	.0330	.00001
%RSD	37.243	6.9877	121.51	14.26	13.363
#1	-.00004	.03962	.00004	-.2079	-.00010
#2	-.00007	.03589	.00058	-.2545	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.00194**	**.00217**	**-.02958**	**-.00132**
Stddev	.00052	.00039	.00019	.01071	.00251
%RSD	51.582	20.282	8.7817	36.195	189.60
#1	-.00138	.00221	.00230	-.02201	-.00310
#2	-.00064	.00166	.00203	-.03715	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 7/26/2017 10:54:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.10080**	**50.561**	**-.00220**	**-.00219**	**.00078**
Stddev	.00058	.181	.00005	.00201	.00007
%RSD	.57643	.35876	2.2517	91.597	9.0736
#1	-.10039	50.689	-.00217	-.00077	.00083
#2	-.10121	50.433	-.00224	-.00362	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00398**	**97.256**	**-.00312**	**-.00919**	**.00509**
Stddev	.00074	.004	.00000	.00031	.00513
%RSD	18.460	.00366	.06947	3.4001	100.71
#1	.00346	97.254	-.00312	-.00942	.00147
#2	.00450	97.259	-.00312	-.00897	.00872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.00005**	**.00171**	**.00602**	**-.00085**
Stddev	.00035	.00004	.00042	.00039	.00076
%RSD	58.433	93.583	24.344	6.4574	90.149
#1	-.00035	-.00002	.00200	.00630	-.00138
#2	-.00084	-.00008	.00141	.00575	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 7/26/2017 10:54:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00765**
Stddev	.00044
%RSD	5.8131
#1	.00734
#2	.00796
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3715.4**	**2431.0**	**17227.**	**3205.2**
Stddev	10.7	8.6	26.	15.4
%RSD	.28692	.35290	.15240	.47902
#1	3707.9	2424.9	17245.	3216.1
#2	3722.9	2437.1	17208.	3194.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.641%	100.87%	99.978%	100.64%
Range				

Sample Name: ICEX4 Acquired: 7/26/2017 11:01:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.06780**	**-.00721**	**-.00179**	**.00005**
Stddev	.00045	.00258	.00052	.00027	.00000
%RSD	240.36	3.8116	7.1889	15.117	6.2069
#1	-.00051	-.06963	-.00758	-.00198	.00005
#2	.00013	-.06597	-.00684	-.00160	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00817**	**.00046**	**-.0118**	**19.440**
Stddev	.00006	.00338	.00011	.0028	.007
%RSD	169.72	41.362	23.532	23.61	.03838
#1	.00001	.00578	.00053	-.0138	19.445
#2	-.00007	.01055	.00038	-.0098	19.435
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.272**	**.00801**	**.00281**	**-.01889**	**.00007**
Stddev	.033	.00117	.00216	.02081	.00105
%RSD	.32208	14.628	76.667	110.13	1615.4
#1	10.248	.00719	.00129	-.03360	.00081
#2	10.295	.00884	.00434	-.00418	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 7/26/2017 11:01:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00040**	**.00020**	**-.00944**	**-.00411**
Stddev	.00055	.00012	.00004	.00532	.00009
%RSD	78.488	30.854	22.348	56.343	2.1263
#1	-.00110	.00048	.00017	-.01320	-.00418
#2	-.00031	.00031	.00023	-.00568	-.00405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00351**	**.01194**	**.01332**	**.00291**	**-.05083**
Stddev	.00041	.00032	.00031	.00225	.00934
%RSD	11.758	2.7115	2.3581	77.325	18.369
#1	-.00322	.01217	.01354	.00450	-.04423
#2	-.00380	.01171	.01310	.00132	-.05744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00001**	**-.00058**	**-.00278**	**-.00025**
Stddev	.00018	.00003	.00039	.00040	.00001
%RSD	231.13	236.08	67.179	14.437	5.9467
#1	.00005	-.00004	-.00085	-.00306	-.00026
#2	-.00020	.00001	-.00030	-.00250	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 7/26/2017 11:01:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00133
Stddev	.00004
%RSD	2.9677
#1	.00136
#2	.00130
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3758.9	2410.6	17334.	3227.8
Stddev	4.1	4.4	46.	8.6
%RSD	.10948	.18206	.26658	.26706
#1	3761.8	2413.7	17367.	3233.9
#2	3756.0	2407.5	17301.	3221.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.81%	100.02%	100.60%	101.35%
Range				

Sample Name: ICEX5 Acquired: 7/26/2017 11:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.05923**	**.00127**	**-.00679**	**-.00004**
Stddev	.00027	.00078	.00005	.00082	.00000
%RSD	46.069	1.3161	3.6894	12.142	1.2461
#1	-.00040	.05868	.00131	-.00621	-.00004
#2	-.00078	.05979	.00124	-.00737	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.02401**	**.00016**	**-.0224**	**-.00032**
Stddev	.00008	.00150	.00005	.0001	.00009
%RSD	61.179	6.2615	29.811	.5085	26.840
#1	-.00018	.02507	.00020	-.0224	-.00026
#2	-.00007	.02295	.00013	-.0225	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**-.00238**	**.00135**	**.01854**	**-.00196**
Stddev	.00008	.00130	.00108	.01200	.00062
%RSD	10.737	54.465	80.282	64.718	31.493
#1	.00068	-.00146	.00212	.02702	-.00152
#2	.00080	-.00330	.00058	.01005	-.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 7/26/2017 11:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06929**	**.00094**	**5.0523**	**.01114**	**.00010**
Stddev	.00036	.00000	.0067	.01358	.00020
%RSD	.52347	.49628	.13188	121.90	187.38
#1	-.06903	.00094	5.0476	.02075	-.00003
#2	-.06955	.00093	5.0570	.00154	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.01251**	**.00095**	**.00388**	**-.02490**
Stddev	.00039	.00083	.00022	.00132	.00433
%RSD	97.467	6.6314	23.001	33.932	17.393
#1	-.00067	-.01192	.00110	.00295	-.02184
#2	-.00012	-.01309	.00079	.00481	-.02796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00004**	**.00078**	**.00074**	**-.00310**
Stddev	.00008	.00001	.00015	.00021	.00003
%RSD	35.591	38.341	19.238	28.859	.99848
#1	-.00028	-.00005	.00067	.00089	-.00308
#2	-.00017	-.00003	.00088	.00059	-.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 7/26/2017 11:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00216**
Stddev	.00011
%RSD	4.8734
#1	.00223
#2	.00208
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3742.8**	**2428.0**	**17410.**	**3205.6**
Stddev	11.7	6.9	57.	12.4
%RSD	.31161	.28543	.32821	.38728
#1	3751.1	2432.9	17370.	3196.8
#2	3734.6	2423.1	17450.	3214.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.38%	100.74%	101.04%	100.65%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:08:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50344**	**25.271**	**.50720**	**.50918**	**.49960**
Stddev	.00237	.037	.00222	.00095	.00056
%RSD	.47111	.14474	.43672	.18693	.11273
#1	.50176	25.245	.50877	.50850	.50000
#2	.50511	25.296	.50564	.50985	.49920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50946**	**25.151**	**.50696**	**-.0423**	**.49670**
Stddev	.00068	.024	.00053	.0125	.00069
%RSD	.13288	.09604	.10430	29.59	.13896
#1	.50994	25.168	.50658	-.0334	.49622
#2	.50898	25.134	.50733	-.0511	.49719
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51796**	**.51323**	**24.808**	**25.106**	**.49895**
Stddev	.00070	.00019	.007	.034	.00019
%RSD	.13429	.03663	.02884	.13384	.03774
#1	.51747	.51310	24.813	25.082	.49908
#2	.51845	.51337	24.803	25.130	.49881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:08:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.393**	**.51839**	**.50830**	**25.007**	**.50408**
Stddev	.039	.00069	.00088	.013	.00017
%RSD	.15456	.13363	.17237	.05161	.03412
#1	25.420	.51888	.50768	25.016	.50396
#2	25.365	.51790	.50892	24.998	.50420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50164**	**24.921**	**.50465**	**.50707**	**24.291**
Stddev	.00049	.007	.00043	.00212	.059
%RSD	.09747	.02647	.08422	.41818	.24381
#1	.50198	24.916	.50495	.50857	24.333
#2	.50129	24.926	.50435	.50557	24.249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50835**	**.49811**	**.50785**	**.50865**	**.50927**
Stddev	.00078	.00056	.00114	.00294	.00001
%RSD	.15425	.11143	.22382	.57749	.00191
#1	.50780	.49850	.50865	.51073	.50928
#2	.50891	.49772	.50705	.50657	.50926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:08:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50917
Stddev	.00088
%RSD	.17260
#1	.50979
#2	.50855
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3406.4	2374.9	16743.	3208.0
Stddev	8.3	6.1	59.	3.3
%RSD	.24260	.25665	.35113	.10171
#1	3412.2	2379.2	16784.	3210.4
#2	3400.5	2370.6	16701.	3205.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:11:27 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.01949**	**.00010**	**.00105**	**.00002**
Stddev	.00010	.01179	.00056	.00011	.00000
%RSD	29.655	60.513	584.22	10.091	3.3903
#1	-.00027	.01115	-.00030	.00097	.00002
#2	-.00042	.02782	.00049	.00112	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00144**	**.00006**	**-.0275**	**.00004**
Stddev	.00000	.00156	.00009	.0154	.00007
%RSD	3.9422	108.75	141.28	55.80	159.29
#1	-.00006	.00033	.00012	-.0384	.00009
#2	-.00006	.00254	.00000	-.0167	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00030**	**.00214**	**-.02925**	**-.00005**
Stddev	.00034	.00153	.00044	.02682	.00259
%RSD	2806.0	510.49	20.438	91.700	5655.1
#1	-.00023	-.00078	.00183	-.01028	-.00188
#2	.00025	.00138	.00245	-.04821	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:11:27 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00471**	**.00008**	**.00042**	**-.00555**	**.00017**
Stddev	.00139	.00002	.00007	.00787	.00021
%RSD	29.400	22.851	16.018	141.79	123.68
#1	.00373	.00009	.00037	-.01111	.00002
#2	.00569	.00006	.00047	.00001	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.00128**	**.00079**	**.00022**	**.01494**
Stddev	.00133	.00261	.00004	.00307	.00588
%RSD	210.51	204.17	5.5684	1362.8	39.370
#1	-.00157	-.00057	.00082	.00239	.01078
#2	.00031	.00313	.00076	-.00194	.01910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00006**	**-.00022**	**.00044**	**-.00012**
Stddev	.00010	.00006	.00018	.00010	.00044
%RSD	35.781	105.01	81.098	22.998	367.72
#1	-.00020	.00002	-.00035	.00036	.00019
#2	-.00034	.00010	-.00010	.00051	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:11:27 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00034
Stddev	.00036
%RSD	104.36
#1	.00009
#2	.00060
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3733.6	2404.2	17163.	3175.5
Stddev	.4	.1	90.	5.4
%RSD	.01185	.00403	.52209	.16929
#1	3733.9	2404.2	17226.	3179.3
#2	3733.3	2404.1	17099.	3171.7

Sample Name: CCVL-4147888 Acquired: 7/26/2017 11:20:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00524**	**.21506**	**.01617**	**.02067**	**.00221**
Stddev	.00014	.01036	.00014	.00024	.00012
%RSD	2.5854	4.8188	.85398	1.1468	5.5833
#1	.00514	.22239	.01607	.02051	.00230
#2	.00533	.20774	.01626	.02084	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.50712**	**.00210**	**-.0218**	**.00379**
Stddev	.00007	.00472	.00003	.0041	.00009
%RSD	3.1603	.93157	1.6367	18.64	2.3495
#1	.00204	.51046	.00207	-.0189	.00372
#2	.00214	.50378	.00212	-.0246	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00402**	**.01087**	**.04968**	**.52823**	**.02982**
Stddev	.00022	.00079	.00171	.02792	.00021
%RSD	5.4035	7.2945	3.4355	5.2855	.71512
#1	.00387	.01143	.04847	.54797	.02967
#2	.00418	.01031	.05088	.50849	.02997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 11:20:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22147**	F **.00453**	**.01021**	**1.0036**	**.00962**
Stddev	.00987	.00161	.00001	.0134	.00007
%RSD	4.4574	35.543	.06244	1.3330	.74070
#1	.22845	.00567	.01022	.99413	.00967
#2	.21449	.00339	.01021	1.0130	.00957
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		50.000%			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00998**	**.19375**	**.02065**	**.02499**	**.50787**
Stddev	.00026	.00032	.00047	.00224	.00162
%RSD	2.6499	.16329	2.2552	8.9769	.31878
#1	.00979	.19352	.02098	.02340	.50673
#2	.01016	.19397	.02032	.02658	.50902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00914**	**.00490**	**.00484**	**.02047**	**.00537**
Stddev	.00040	.00007	.00038	.00092	.00058
%RSD	4.3584	1.5221	7.7832	4.5099	10.829
#1	.00886	.00496	.00511	.02112	.00578
#2	.00942	.00485	.00457	.01981	.00496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 11:20:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01106
Stddev	.00076
%RSD	6.8580
#1	.01160
#2	.01053
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3756.7	2429.4	17392.	3204.1
Stddev	1.9	.2	10.	10.9
%RSD	.05063	.00675	.06003	.34026
#1	3758.0	2429.5	17400.	3211.8
#2	3755.3	2429.2	17385.	3196.4

Sample Name: mb 480-368171/1-a Acquired: 7/26/2017 11:24:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.02297**	**-.00156**	**.00204**	**.00004**
Stddev	.00017	.01320	.00143	.00008	.00001
%RSD	70.745	57.474	92.043	4.0502	19.230
#1	-.00012	.03230	-.00257	.00210	.00003
#2	-.00036	.01363	-.00054	.00198	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.02284**	**-.00001**	**-.0194**	**-.00004**
Stddev	.00005	.00078	.00008	.0101	.00006
%RSD	194.62	3.4194	534.88	51.92	140.70
#1	-.00001	.02229	.00004	-.0123	-.00000
#2	.00006	.02340	-.00007	-.0265	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00027**	**.00469**	**-.05017**	**-.00087**
Stddev	.00029	.00045	.00304	.03494	.00135
%RSD	76.552	165.34	64.723	69.642	155.89
#1	.00018	.00059	.00684	-.07488	-.00183
#2	.00059	-.00005	.00254	-.02547	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368171/1-a Acquired: 7/26/2017 11:24:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00953**	**.00095**	**-.00011**	**-.00758**	**.00013**
Stddev	.00083	.00003	.00017	.00498	.00012
%RSD	8.7198	3.4362	153.45	65.736	93.219
#1	.00894	.00092	.00001	-.00406	.00004
#2	.01012	.00097	-.00023	-.01111	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00185**	**.00040**	**.00167**	**-.00935**
Stddev	.00006	.00143	.00379	.00169	.01057
%RSD	7.6794	77.489	946.05	101.14	113.06
#1	-.00079	.00286	.00308	.00286	-.01683
#2	-.00071	.00084	-.00228	.00048	-.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00007**	**.00011**	**.00035**	**.00008**
Stddev	.00033	.00002	.00014	.00187	.00062
%RSD	156.58	31.035	130.98	531.07	819.61
#1	-.00044	.00006	.00001	-.00097	-.00036
#2	.00002	.00009	.00021	.00168	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368171/1-a Acquired: 7/26/2017 11:24:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00024
Stddev	.00048
%RSD	202.91
#1	-.00010
#2	.00058
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3834.5	2462.3	17534.	3282.1
Stddev	8.9	4.1	45.	12.4
%RSD	.23328	.16740	.25677	.37702
#1	3840.8	2465.2	17502.	3290.9
#2	3828.1	2459.4	17565.	3273.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.83%	102.17%	101.76%	103.05%
Range				

Sample Name: lcs 480-368171/2-a Acquired: 7/26/2017 11:27:39 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05001**	**10.137**	**.20165**	**.21040**	**.20793**
Stddev	.00032	.078	.00062	.00002	.00030
%RSD	.63090	.77170	.30712	.00842	.14230
#1	.05024	10.193	.20209	.21039	.20814
#2	.04979	10.082	.20122	.21042	.20772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20543**	**10.072**	**.20793**	**-.0346**	**.19249**
Stddev	.00003	.024	.00026	.0040	.00059
%RSD	.01596	.24247	.12436	11.69	.30883
#1	.20540	10.089	.20775	-.0317	.19292
#2	.20545	10.055	.20811	-.0374	.19207
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20758**	F **.24203**	**10.477**	**10.021**	**.20119**
Stddev	.00030	.00267	.011	.004	.00044
%RSD	.14310	1.1012	.10287	.03894	.21919
#1	.20737	.24391	10.485	10.023	.20150
#2	.20779	.24014	10.469	10.018	.20087
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: lcs 480-368171/2-a Acquired: 7/26/2017 11:27:39 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.480**	**.21023**	**.20132**	**9.9858**	**.19576**
Stddev	.021	.00018	.00010	.0045	.00064
%RSD	.19697	.08522	.04732	.04487	.32629
#1	10.466	.21036	.20125	9.9890	.19621
#2	10.495	.21010	.20138	9.9826	.19531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20612**	**10.147**	**.21167**	**.20729**	**10.222**
Stddev	.00035	.015	.00203	.00136	.024
%RSD	.16848	.14663	.96075	.65813	.23065
#1	.20587	10.158	.21023	.20632	10.205
#2	.20636	10.137	.21311	.20825	10.239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19952**	**.20284**	**.20212**	**.20743**	**.20747**
Stddev	.00075	.00021	.00072	.00061	.00074
%RSD	.37714	.10474	.35380	.29231	.35441
#1	.20005	.20269	.20263	.20700	.20799
#2	.19899	.20299	.20161	.20786	.20695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368171/2-a Acquired: 7/26/2017 11:27:39 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F .23272
Stddev	.00026
%RSD	.11205
#1	.23291
#2	.23254
Check ?	Chk Fail
High Limit	.23000
Low Limit	.17000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3614.4	2431.4	17326.	3307.7
Stddev	7.9	8.8	10.	14.9
%RSD	.21942	.36113	.05799	.44958
#1	3620.0	2437.6	17319.	3297.2
#2	3608.8	2425.2	17333.	3318.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.932%	100.88%	100.55%	103.86%
Range				

Sample Name: 121361-a-2-b@5 Acquired: 7/26/2017 11:30:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00137**	**.17307**	**.00065**	**.03255**	**.81840**
Stddev	.00044	.02078	.00270	.00063	.00074
%RSD	31.858	12.004	412.91	1.9478	.08983
#1	-.00106	.15838	.00256	.03210	.81788
#2	-.00168	.18776	-.00125	.03300	.81892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**555.21**	**-.00009**	**.0063**	**.00101**
Stddev	.00004	3.43	.00004	.0251	.00022
%RSD	22.895	.61733	46.614	400.1	21.847
#1	-.00021	552.79	-.00012	.0240	.00117
#2	-.00015	557.64	-.00006	-.0115	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00266**	**.09593**	**344.77**	**.00008**
Stddev	.00043	.00046	.00046	.11	.00343
%RSD	75.891	17.253	.48228	.03318	4096.2
#1	.00087	.00298	.09626	344.85	-.00234
#2	.00026	.00234	.09560	344.69	.00251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-b@5 Acquired: 7/26/2017 11:30:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.58418**	**.87158**	**.01308**	**521.35**	**.00523**
Stddev	.00770	.00093	.00044	.33	.00001
%RSD	1.3178	.10653	3.3336	.06384	.16483
#1	.57874	.87224	.01339	521.12	.00522
#2	.58963	.87092	.01277	521.59	.00523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00185**	**13.622**	**.00446**	**-.00038**	**.47985**
Stddev	.00116	.007	.00108	.00046	.00181
%RSD	62.554	.05282	24.201	121.80	.37764
#1	-.00267	13.617	.00523	-.00005	.47857
#2	-.00103	13.627	.00370	-.00071	.48114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**4.4618**	**-.00087**	**-.00140**	**.00057**
Stddev	.00088	.0042	.00038	.00042	.00081
%RSD	226.27	.09342	44.429	30.254	141.99
#1	.00101	4.4647	-.00059	-.00170	-.00000
#2	-.00023	4.4588	-.00114	-.00110	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-b@5 Acquired: 7/26/2017 11:30:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00259
Stddev	.00019
%RSD	7.1939
#1	.00272
#2	.00245
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2733.4	2098.8	14824.	3064.0
Stddev	3.6	2.9	54.	15.3
%RSD	.13300	.13974	.36648	.49838
#1	2736.0	2100.8	14785.	3074.8
#2	2730.8	2096.7	14862.	3053.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.306%	87.081%	86.031%	96.202%
Range				

Sample Name: 121361-a-2-c ms@5 Acquired: 7/26/2017 11:34:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00919**	**2.2236**	**.04423**	**.07371**	**.85605**
Stddev	.00041	.0098	.00270	.00018	.00196
%RSD	4.4297	.44307	6.1106	.24128	.22891
#1	.00890	2.2167	.04614	.07359	.85467
#2	.00948	2.2306	.04232	.07384	.85744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04121**	**554.16**	**.04454**	**.0072**	**.04245**
Stddev	.00003	2.23	.00010	.0089	.00018
%RSD	.06144	.40238	.22039	122.7	.43141
#1	.04120	552.58	.04447	.0135	.04258
#2	.04123	555.74	.04461	.0010	.04232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04104**	**.04435**	**2.1662**	**344.77**	**.04108**
Stddev	.00031	.00069	.0038	.31	.00060
%RSD	.76614	1.5536	.17664	.09059	1.4705
#1	.04082	.04386	2.1689	344.55	.04066
#2	.04127	.04484	2.1635	345.00	.04151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-c ms@5 Acquired: 7/26/2017 11:34:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5224**	**.89263**	**.05284**	**522.24**	**.04692**
Stddev	.0020	.00194	.00018	1.39	.00049
%RSD	.07895	.21761	.34259	.26593	1.0398
#1	2.5210	.89125	.05297	521.26	.04657
#2	2.5238	.89400	.05272	523.23	.04726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04388**	**15.546**	**.04691**	**.04289**	**2.5733**
Stddev	.00029	.014	.00098	.00315	.0119
%RSD	.66809	.09090	2.0830	7.3532	.46266
#1	.04408	15.536	.04622	.04066	2.5817
#2	.04367	15.556	.04760	.04512	2.5649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04358**	**4.4564**	**.04013**	**.04072**	**.04163**
Stddev	.00047	.0118	.00005	.00181	.00094
%RSD	1.0794	.26494	.11336	4.4443	2.2699
#1	.04392	4.4480	.04010	.04200	.04096
#2	.04325	4.4647	.04016	.03944	.04230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-c ms@5 Acquired: 7/26/2017 11:34:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04364
Stddev	.00022
%RSD	.50770
#1	.04348
#2	.04380
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2738.6	2109.0	15013.	3051.4
Stddev	.4	.1	37.	2.6
%RSD	.01409	.00499	.24497	.08638
#1	2738.4	2108.9	15039.	3053.3
#2	2738.9	2109.1	14987.	3049.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.446%	87.505%	87.128%	95.807%
Range				

Sample Name: 121361-a-2-d msd@5 Acquired: 7/26/2017 11:38:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00935**	**2.2405**	**.04575**	**.07417**	**.86871**
Stddev	.00113	.0308	.00121	.00054	.00154
%RSD	12.059	1.3751	2.6414	.72182	.17733
#1	.01015	2.2623	.04489	.07379	.86980
#2	.00855	2.2187	.04660	.07455	.86762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04123**	**558.80**	**.04430**	**.0077**	**.04281**
Stddev	.00004	.16	.00007	.0198	.00006
%RSD	.09394	.02839	.15052	255.3	.14829
#1	.04120	558.92	.04426	.0217	.04277
#2	.04126	558.69	.04435	-.0062	.04286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04067**	**.04704**	**2.1656**	**350.45**	**.03975**
Stddev	.00021	.00039	.0150	.03	.00170
%RSD	.51266	.83840	.69381	.00818	4.2731
#1	.04082	.04676	2.1762	350.43	.03854
#2	.04052	.04731	2.1550	350.47	.04095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-d msd@5 Acquired: 7/26/2017 11:38:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5354**	**.90786**	**.05291**	**531.90**	**.04714**
Stddev	.0091	.00149	.00030	.21	.00023
%RSD	.35680	.16461	.56804	.03889	.47948
#1	2.5291	.90892	.05270	531.75	.04730
#2	2.5418	.90680	.05313	532.04	.04698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04388**	**15.699**	**.04776**	**.04239**	**2.5462**
Stddev	.00118	.011	.00013	.00107	.0133
%RSD	2.6785	.07050	.26378	2.5183	.52266
#1	.04304	15.691	.04785	.04314	2.5556
#2	.04471	15.706	.04767	.04163	2.5368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04347**	**4.4912**	**.04023**	**.03812**	**.04159**
Stddev	.00033	.0065	.00062	.00000	.00022
%RSD	.76255	.14475	1.5409	.00312	.54080
#1	.04371	4.4866	.04067	.03812	.04175
#2	.04324	4.4958	.03979	.03812	.04143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-d msd@5 Acquired: 7/26/2017 11:38:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04439**
Stddev	.00067
%RSD	1.5108
#1	.04486
#2	.04392
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2725.5**	**2103.8**	**14896.**	**3038.5**
Stddev	3.0	2.7	21.	4.8
%RSD	.11006	.12817	.13900	.15881
#1	2723.3	2101.9	14881.	3035.0
#2	2727.6	2105.7	14910.	3041.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.093%	87.290%	86.449%	95.401%
Range				

Sample Name: BLANK Acquired: 7/26/2017 11:41:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.02823**	**.00087**	**.00051**	**.00042**
Stddev	.00033	.00041	.00135	.00024	.00001
%RSD	165.03	1.4410	155.11	46.994	3.2919
#1	-.00003	.02852	.00182	.00034	.00041
#2	.00043	.02795	-.00008	.00068	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.04086**	**.00038**	**-.0209**	**.00022**
Stddev	.00002	.00730	.00004	.0451	.00004
%RSD	6.0965	17.868	10.151	216.3	18.526
#1	.00043	.04602	.00035	-.0528	.00020
#2	.00039	.03570	.00041	.0110	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**.00077**	**.01964**	**.20154**	**-.00189**
Stddev	.00054	.00093	.00056	.00095	.00043
%RSD	47.924	121.30	2.8306	.47083	22.683
#1	.00152	.00143	.02003	.20221	-.00159
#2	.00075	.00011	.01925	.20087	-.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 11:41:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02637**	**.00046**	**.00049**	**.07420**	**.00037**
Stddev	.00443	.00008	.00003	.00067	.00011
%RSD	16.795	18.340	6.9683	.90064	28.648
#1	.02324	.00040	.00046	.07467	.00030
#2	.02950	.00052	.00051	.07372	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.02108**	**.00056**	**.00078**	**.02899**
Stddev	.00003	.00155	.00065	.00094	.00916
%RSD	11.242	7.3373	115.63	120.48	31.607
#1	.00028	.02217	.00010	.00012	.03546
#2	.00033	.01999	.00102	.00144	.02251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00056**	**.00023**	**.00091**	**.00093**
Stddev	.00049	.00001	.00006	.00178	.00035
%RSD	108.43	1.6740	26.159	196.69	37.414
#1	.00010	.00055	.00019	-.00035	.00118
#2	.00079	.00056	.00028	.00217	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 11:41:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00078
Stddev	.00012
%RSD	15.418
#1	.00069
#2	.00086
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3730.2	2407.8	17061.	3176.8
Stddev	.8	3.9	15.	18.9
%RSD	.02120	.16029	.08979	.59359
#1	3729.7	2410.5	17072.	3163.5
#2	3730.8	2405.0	17051.	3190.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.04%	99.902%	99.018%	99.744%
Range				

Sample Name: 480-121340-a-1-b Acquired: 7/26/2017 11:45:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.01498**	**-.00089**	**.01419**	**.04824**
Stddev	.00011	.00453	.00081	.00019	.00006
%RSD	12.442	30.244	91.227	1.3111	.12440
#1	-.00093	.01178	-.00032	.01406	.04819
#2	-.00078	.01818	-.00146	.01432	.04828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**30.290**	**.00029**	**-.0026**	**-.00018**
Stddev	.00001	.117	.00008	.0141	.00004
%RSD	14.045	.38521	26.606	546.2	20.764
#1	-.00009	30.372	.00034	-.0126	-.00021
#2	-.00007	30.207	.00023	.0074	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.07521**	**.88819**	**3.2942**	**.00176**
Stddev	.00011	.00114	.00343	.0230	.00126
%RSD	36.348	1.5102	.38660	.69939	71.643
#1	.00022	.07602	.89062	3.2779	.00265
#2	.00038	.07441	.88576	3.3105	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121340-a-1-b Acquired: 7/26/2017 11:45:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9235**	**.00370**	**-.00002**	**18.140**	**.00072**
Stddev	.0093	.00009	.00005	.014	.00031
%RSD	.09376	2.5207	205.94	.07934	43.096
#1	9.9169	.00364	-.00006	18.151	.00050
#2	9.9301	.00377	.00001	18.130	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02480**	**3.9566**	**.00053**	**.00434**	**11.553**
Stddev	.00008	.0053	.00032	.00283	.063
%RSD	.31003	.13398	60.829	65.346	.54571
#1	.02475	3.9529	.00076	.00233	11.597
#2	.02486	3.9603	.00030	.00634	11.508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00277**	**.16270**	**.00007**	**.00111**	**.00061**
Stddev	.00029	.00044	.00055	.00101	.00019
%RSD	10.544	.26947	788.76	90.990	30.811
#1	.00256	.16301	.00046	.00183	.00074
#2	.00297	.16239	-.00032	.00040	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121340-a-1-b Acquired: 7/26/2017 11:45:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.26012**
Stddev	.00104
%RSD	.40027
#1	.25939
#2	.26086
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3580.4**	**2400.7**	**17018.**	**3267.5**
Stddev	14.8	8.6	47.	7.6
%RSD	.41323	.35671	.27404	.23279
#1	3590.9	2406.8	17051.	3262.1
#2	3570.0	2394.7	16985.	3272.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.022%	99.611%	98.764%	102.59%
Range				

Sample Name: 480-121369-b-1-a Acquired: 7/26/2017 11:48:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.03974**	**.01021**	**.63159**	**.18025**
Stddev	.00054	.01719	.00025	.00038	.00026
%RSD	188.10	43.268	2.4691	.06095	.14524
#1	-.00067	.02758	.01003	.63132	.18007
#2	.00009	.05190	.01039	.63186	.18044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**158.83**	**.00035**	**-.0270**	**.00078**
Stddev	.00002	.01	.00002	.0180	.00009
%RSD	69.221	.00937	6.5819	66.68	11.025
#1	-.00002	158.84	.00037	-.0398	.00072
#2	-.00005	158.82	.00033	-.0143	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**-.00169**	**17.691**	**13.636**	**.01189**
Stddev	.00022	.00010	.127	.004	.00043
%RSD	25.874	5.9190	.71702	.02655	3.6550
#1	.00070	-.00176	17.781	13.638	.01219
#2	.00102	-.00161	17.601	13.633	.01158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121369-b-1-a Acquired: 7/26/2017 11:48:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.002**	**.25558**	**-.00014**	**40.028**	**.00550**
Stddev	.003	.00076	.00005	.057	.00051
%RSD	.00665	.29667	39.501	.14309	9.3245
#1	47.004	.25504	-.00010	39.988	.00586
#2	47.000	.25612	-.00018	40.069	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00275**	**.59963**	**-.00022**	**.00324**	**10.002**
Stddev	.00024	.00063	.00020	.00095	.014
%RSD	8.8737	.10484	90.747	29.324	.14133
#1	.00258	.60008	-.00008	.00391	9.9924
#2	.00292	.59919	-.00036	.00257	10.012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.36386**	**.00046**	**.00162**	**.00034**
Stddev	.00036	.00101	.00021	.00012	.00074
%RSD	198.91	.27706	45.813	7.3573	214.00
#1	-.00007	.36314	.00031	.00171	.00087
#2	.00043	.36457	.00061	.00154	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121369-b-1-a Acquired: 7/26/2017 11:48:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00434
Stddev	.00064
%RSD	14.858
#1	.00388
#2	.00479
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3245.8	2299.9	16431.	3205.7
Stddev	5.0	3.4	22.	7.6
%RSD	.15251	.14936	.13146	.23776
#1	3249.3	2302.3	16446.	3200.3
#2	3242.3	2297.5	16415.	3211.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.048%	95.427%	95.357%	100.65%
Range				

Sample Name: BLANK Acquired: 7/26/2017 11:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.00690**	**-.00093**	**.00099**	**.00004**
Stddev	.00075	.00363	.00014	.00014	.00004
%RSD	102.32	52.620	15.047	14.374	98.157
#1	-.00127	.00947	-.00083	.00109	.00001
#2	-.00020	.00434	-.00103	.00089	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01242**	**.00010**	**-.0181**	**-.00012**
Stddev	.00000	.00245	.00019	.0065	.00012
%RSD	6.7778	19.707	193.30	35.71	101.09
#1	.00001	.01415	-.00004	-.0227	-.00003
#2	.00001	.01069	.00023	-.0135	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00035**	**.00117**	**.06705**	**-.00122**
Stddev	.00005	.00079	.00112	.00106	.00149
%RSD	34.735	227.87	95.277	1.5844	122.10
#1	.00012	.00021	.00197	.06630	-.00017
#2	.00019	-.00091	.00038	.06780	-.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 11:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00789**	**.00007**	**-.00008**	**.02893**	**-.00017**
Stddev	.00407	.00001	.00017	.00128	.00011
%RSD	51.548	21.755	208.68	4.4090	63.880
#1	.01076	.00006	.00004	.02803	-.00010
#2	.00501	.00008	-.00020	.02983	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00077**	**-.00029**	**.00262**	**.00608**
Stddev	.00044	.00001	.00050	.00128	.00779
%RSD	154.07	1.4482	171.68	48.731	128.19
#1	.00060	.00078	-.00064	.00353	.00057
#2	-.00003	.00076	.00006	.00172	.01159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00012**	**-.00008**	**.00105**	**-.00013**
Stddev	.00015	.00001	.00013	.00058	.00015
%RSD	73.703	10.811	159.14	55.837	121.50
#1	.00030	.00011	-.00018	.00063	-.00002
#2	.00009	.00013	.00001	.00146	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 11:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00052**
Stddev	.00010
%RSD	19.721
#1	.00059
#2	.00044
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3723.5**	**2401.0**	**17120.**	**3200.2**
Stddev	2.7	2.7	73.	.7
%RSD	.07210	.11117	.42898	.02094
#1	3721.6	2399.1	17172.	3199.7
#2	3725.4	2402.9	17068.	3200.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.859%	99.620%	99.358%	100.48%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:55:44 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50138**	**25.303**	**.50326**	**.51034**	**.50534**
Stddev	.00008	.057	.00412	.00005	.00077
%RSD	.01635	.22380	.81960	.00970	.15245
#1	.50144	25.343	.50035	.51030	.50479
#2	.50132	25.263	.50618	.51037	.50588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51456**	**25.223**	**.50693**	**-.0330**	**.49798**
Stddev	.00266	.153	.00031	.0140	.00069
%RSD	.51720	.60543	.06160	42.32	.13953
#1	.51644	25.330	.50671	-.0231	.49847
#2	.51268	25.115	.50715	-.0429	.49749
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51433**	**.52035**	**24.938**	**25.616**	**.50271**
Stddev	.00026	.00032	.079	.076	.00194
%RSD	.05146	.06221	.31817	.29738	.38638
#1	.51414	.52057	24.994	25.670	.50408
#2	.51452	.52012	24.882	25.562	.50134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:55:44 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.534**	**.52298**	**.50540**	**25.272**	**.50560**
Stddev	.056	.00136	.00009	.098	.00086
%RSD	.21865	.26031	.01702	.38855	.17070
#1	25.494	.52202	.50546	25.342	.50499
#2	25.573	.52395	.50534	25.203	.50621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50004**	**24.964**	**.50414**	**.50711**	**24.492**
Stddev	.00021	.004	.00088	.00071	.121
%RSD	.04153	.01749	.17506	.13906	.49449
#1	.50018	24.961	.50476	.50661	24.577
#2	.49989	24.967	.50351	.50761	24.406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51072**	**.49892**	**.50654**	**.50598**	**.50789**
Stddev	.00063	.00247	.00048	.00176	.00091
%RSD	.12273	.49564	.09408	.34718	.17896
#1	.51028	.50067	.50688	.50474	.50853
#2	.51116	.49717	.50620	.50722	.50725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:55:44 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51203
Stddev	.00282
%RSD	.55097
#1	.51004
#2	.51403
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3395.1	2371.4	16613.	3191.2
Stddev	1.3	.5	12.	16.6
%RSD	.03870	.02239	.07018	.52104
#1	3394.1	2371.8	16605.	3179.5
#2	3396.0	2371.1	16621.	3203.0

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:58:56 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00414**	**-.00008**	**.00102**	**.00002**
Stddev	.00148	.00342	.00061	.00009	.00002
%RSD	358.25	82.474	789.79	8.3937	120.56
#1	-.00146	.00656	-.00051	.00108	.00000
#2	.00063	.00173	.00035	.00096	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00417**	**.00001**	**-.0072**	**-.00008**
Stddev	.00011	.00246	.00012	.0055	.00000
%RSD	344.49	59.081	855.81	76.44	4.2449
#1	-.00004	.00243	-.00007	-.0111	-.00008
#2	.00011	.00591	.00010	-.0033	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00040**	**.00095**	**.04333**	**-.00245**
Stddev	.00052	.00063	.00140	.02408	.00004
%RSD	110.57	157.10	146.90	55.575	1.7451
#1	.00010	.00004	.00194	.02630	-.00248
#2	.00084	-.00085	-.00004	.06036	-.00242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:58:56 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00245**	**-.00000**	**.00004**	**.01944**	**-.00008**
Stddev	.00132	.00016	.00006	.00206	.00005
%RSD	54.000	5567.9	153.67	10.590	66.350
#1	.00339	-.00012	-.00000	.01798	-.00004
#2	.00151	.00011	.00008	.02089	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00169**	**.00027**	**.00271**	**.01679**
Stddev	.00095	.00071	.00068	.00234	.00572
%RSD	178.08	42.144	252.97	86.476	34.052
#1	-.00121	.00220	-.00021	.00436	.01275
#2	.00014	.00119	.00074	.00105	.02084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00006**	**.00006**	**-.00017**	**-.00012**
Stddev	.00003	.00001	.00060	.00075	.00032
%RSD	6.1626	23.445	1086.3	446.98	259.79
#1	-.00046	.00005	.00048	-.00070	-.00035
#2	-.00050	.00007	-.00037	.00036	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:58:56 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00033
Stddev	.00060
%RSD	182.31
#1	-.00010
#2	.00076
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3727.6	2400.0	17157.	3177.3
Stddev	7.6	4.5	8.	1.3
%RSD	.20407	.18686	.04464	.04011
#1	3733.0	2403.2	17162.	3178.2
#2	3722.2	2396.8	17151.	3176.4

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:02:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00610**	**.20995**	**.01612**	**.02067**	**.00208**
Stddev	.00002	.00999	.00002	.00037	.00001
%RSD	.40378	4.7583	.09572	1.7899	.28548
#1	.00608	.21702	.01613	.02041	.00208
#2	.00612	.20289	.01611	.02094	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.50575**	**.00205**	**-.0177**	**.00375**
Stddev	.00001	.00052	.00006	.0332	.00009
%RSD	.45212	.10233	3.1276	188.1	2.4612
#1	.00204	.50612	.00201	-.0412	.00382
#2	.00206	.50538	.00210	.0058	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00454**	**.01069**	**.04945**	**.53887**	**.02838**
Stddev	.00016	.00058	.00294	.00611	.00155
%RSD	3.5235	5.4050	5.9429	1.1337	5.4774
#1	.00443	.01110	.04737	.54319	.02948
#2	.00465	.01028	.05153	.53455	.02728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:02:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20713**	**.00318**	**.00994**	**1.0060**	**.00936**
Stddev	.00222	.00002	.00020	.0006	.00019
%RSD	1.0733	.53647	2.0269	.06185	2.0704
#1	.20556	.00319	.01009	1.0064	.00922
#2	.20871	.00316	.00980	1.0055	.00949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01036**	**.19000**	**.02078**	**.02607**	**.50780**
Stddev	.00000	.00201	.00149	.00292	.00235
%RSD	.02676	1.0573	7.1889	11.208	.46245
#1	.01036	.18858	.02184	.02400	.50946
#2	.01036	.19142	.01972	.02813	.50614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00942**	**.00489**	**.00456**	**.02134**	**.00506**
Stddev	.00030	.00005	.00002	.00095	.00007
%RSD	3.1987	1.0603	.35146	4.4569	1.4266
#1	.00963	.00485	.00457	.02202	.00511
#2	.00921	.00493	.00455	.02067	.00501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:02:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01042**
Stddev	.00018
%RSD	1.7096
#1	.01030
#2	.01055
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3746.2**	**2423.7**	**17217.**	**3227.1**
Stddev	4.9	2.2	4.	6.6
%RSD	.13191	.09136	.02596	.20403
#1	3742.7	2425.3	17214.	3222.4
#2	3749.7	2422.1	17220.	3231.7

Sample Name: lb 480-368350/1-b Acquired: 7/26/2017 12:05:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	F **.22215**	**.00167**	**.04896**	**.02837**
Stddev	.00132	.00367	.00444	.00008	.00007
%RSD	149840.	1.6514	265.98	.16111	.26224
#1	-.00093	.22474	.00480	.04901	.02831
#2	.00093	.21955	-.00147	.04890	.02842
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000			
Low Limit		-.20000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.77475**	**-.00006**	**-.0142**	**-.00050**
Stddev	.00005	.00538	.00017	.0471	.00017
%RSD	155.00	.69471	288.90	333.0	33.781
#1	-.00000	.77094	-.00018	.0192	-.00062
#2	.00006	.77855	.00006	-.0475	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00320**	**.00485**	**.01230**	**.72207**	**-.00050**
Stddev	.00046	.00093	.00151	.00537	.00082
%RSD	14.236	19.096	12.281	.74360	163.85
#1	.00352	.00419	.01124	.71828	-.00107
#2	.00288	.00550	.01337	.72587	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lb 480-368350/1-b Acquired: 7/26/2017 12:05:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06700**	**.00263**	**.00524**	F **1519.7**	**.00012**
Stddev	.00113	.00006	.00019	1.4	.00009
%RSD	1.6931	2.3211	3.5454	.09190	70.940
#1	.06620	.00267	.00537	1518.7	.00006
#2	.06781	.00259	.00511	1520.7	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00235**	**.02316**	**.00207**	**.00284**	**.05173**
Stddev	.00160	.00534	.00029	.00122	.00193
%RSD	67.921	23.069	14.071	43.125	3.7239
#1	.00348	.01938	.00186	.00197	.05036
#2	.00122	.02693	.00227	.00370	.05309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.00381**	**.00005**	**-.00132**	**.00029**
Stddev	.00025	.00002	.00054	.00067	.00042
%RSD	14.368	.63051	1041.5	50.666	146.62
#1	.00191	.00382	.00043	-.00085	-.00001
#2	.00156	.00379	-.00033	-.00179	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lb 480-368350/1-b Acquired: 7/26/2017 12:05:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00697
Stddev	.00034
%RSD	4.9445
#1	.00672
#2	.00721
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2806.8	2155.1	14916.	3125.9
Stddev	4.7	2.7	17.	16.6
%RSD	.16761	.12461	.11148	.52958
#1	2803.5	2153.2	14928.	3137.6
#2	2810.2	2157.0	14904.	3114.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.275%	89.419%	86.567%	98.147%
Range				

Sample Name: mb 480-368572/2-a Acquired: 7/26/2017 12:09:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.03785**	**.00041**	**.00320**	**.00010**
Stddev	.00106	.01934	.00022	.00008	.00001
%RSD	343.59	51.087	53.435	2.3676	7.1758
#1	.00044	.02418	.00057	.00325	.00009
#2	-.00106	.05152	.00026	.00314	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.01388**	**.00008**	**-.0080**	**-.00008**
Stddev	.00004	.00172	.00003	.0082	.00005
%RSD	65.034	12.385	39.509	103.0	57.069
#1	.00009	.01266	.00006	-.0138	-.00005
#2	.00003	.01509	.00010	-.0022	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00078**	**.00086**	**.07433**	**-.00083**
Stddev	.00030	.00029	.00136	.00153	.00216
%RSD	52.074	36.955	158.24	2.0527	259.29
#1	.00036	.00098	-.00010	.07541	.00070
#2	.00079	.00057	.00182	.07325	-.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368572/2-a Acquired: 7/26/2017 12:09:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00188**	**.00042**	**-.00006**	**.15836**	**.00006**
Stddev	.00083	.00011	.00004	.00645	.00027
%RSD	44.108	26.309	68.326	4.0727	462.39
#1	-.00129	.00034	-.00009	.16292	.00025
#2	-.00247	.00049	-.00003	.15380	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00163**	**.00046**	**.00280**	**.18030**
Stddev	.00130	.00257	.00066	.00261	.01141
%RSD	637.66	158.09	144.12	93.026	6.3301
#1	.00071	-.00019	.00092	.00096	.17223
#2	-.00112	.00345	-.00001	.00465	.18838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00007**	**.00051**	**.00059**	**.00004**
Stddev	.00010	.00013	.00022	.00006	.00005
%RSD	21.599	192.28	42.542	9.7020	125.52
#1	-.00040	.00016	.00066	.00063	.00000
#2	-.00055	-.00002	.00036	.00055	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368572/2-a Acquired: 7/26/2017 12:09:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00090
Stddev	.00060
%RSD	67.404
#1	.00132
#2	.00047
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3799.0	2442.4	17379.	3260.4
Stddev	3.8	1.3	77.	8.6
%RSD	.09885	.05427	.44130	.26356
#1	3801.7	2443.4	17433.	3266.5
#2	3796.4	2441.5	17325.	3254.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.88%	101.34%	100.86%	102.37%
Range				

Sample Name: lcs 480-368572/3-a Acquired: 7/26/2017 12:12:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0441**	**.03006**	**1.0712**	**.03548**	**1.0013**
Stddev	.0042	.01317	.0003	.00030	.0018
%RSD	.40583	43.799	.02296	.85050	.17788
#1	1.0471	.03937	1.0710	.03527	1.00000
#2	1.0411	.02075	1.0714	.03570	1.0025
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0074**	**.63415**	**1.0804**	**-.0128**	**1.0246**
Stddev	.0011	.00584	.0006	.0099	.0019
%RSD	.11000	.92071	.05274	77.30	.19068
#1	1.0066	.63002	1.0800	-.0198	1.0232
#2	1.0081	.63828	1.0808	-.0058	1.0260
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0235**	**1.0153**	**.00865**	**.59115**	**-.00139**
Stddev	.0072	.0014	.00129	.03280	.00049
%RSD	.70107	.13986	14.889	5.5493	35.068
#1	1.0286	1.0143	.00774	.56795	-.00174
#2	1.0184	1.0163	.00956	.61434	-.00105
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: lcs 480-368572/3-a Acquired: 7/26/2017 12:12:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04071**	**1.0110**	**.96959**	**1451.0**	**1.0404**
Stddev	.00092	.0034	.00026	.2	.0031
%RSD	2.2539	.33924	.02700	.01552	.29329
#1	.04135	1.0134	.96977	1450.9	1.0383
#2	.04006	1.0086	.96940	1451.2	1.0426
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0417**	**.01869**	**.99593**	**1.0730**	**.18022**
Stddev	.0026	.00150	.00060	.0074	.00411
%RSD	.24790	8.0332	.05986	.68598	2.2816
#1	1.0399	.01763	.99551	1.0782	.18313
#2	1.0435	.01975	.99635	1.0678	.17731
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**.95863**	**-.00003**	**.95074**	**1.0130**
Stddev	.00003	.00195	.00032	.00109	.0042
%RSD	1.3929	.20293	926.86	.11491	.41850
#1	.00213	.95726	-.00026	.95151	1.0160
#2	.00217	.96001	.00019	.94997	1.0100
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368572/3-a Acquired: 7/26/2017 12:12:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0922
Stddev	.0049
%RSD	.44702
#1	1.0957
#2	1.0888
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2805.5	2158.7	14868.	3130.5
Stddev	5.8	4.8	81.	5.4
%RSD	.20779	.22036	.54224	.17214
#1	2809.6	2162.1	14811.	3134.3
#2	2801.4	2155.4	14925.	3126.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.239%	89.570%	86.290%	98.290%
Range				

Sample Name: 480-121205-a-2-f Acquired: 7/26/2017 12:16:22 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.48857**	**.00626**	**.05992**	**.23418**
Stddev	.00032	.02761	.00015	.00003	.00005
%RSD	55.460	5.6504	2.3310	.05176	.01961
#1	-.00079	.50809	.00616	.05989	.23415
#2	-.00035	.46905	.00637	.05994	.23422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**64.909**	**.00224**	**-.0047**	**.01572**
Stddev	.00001	.199	.00021	.0098	.00017
%RSD	3.0531	.30721	9.3681	210.1	1.0996
#1	.00045	64.768	.00239	-.0116	.01585
#2	.00047	65.050	.00209	.0023	.01560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.02441**	**.22134**	**5.5231**	**.00206**
Stddev	.00031	.00028	.00150	.0382	.00123
%RSD	16.511	1.1557	.67681	.69118	59.674
#1	.00210	.02461	.22028	5.4961	.00293
#2	.00166	.02421	.22240	5.5501	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121205-a-2-f Acquired: 7/26/2017 12:16:22 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0794**	**1.0082**	**.00106**	**1535.6**	**.01428**
Stddev	.0056	.0009	.00020	7.3	.00044
%RSD	.52248	.09259	19.403	.47491	3.0634
#1	1.0755	1.0076	.00120	1530.5	.01459
#2	1.0834	1.0089	.00091	1540.8	.01397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15457**	**1.8048**	**.00208**	**.00162**	**1.3371**
Stddev	.00060	.0003	.00101	.00305	.0045
%RSD	.38781	.01498	48.455	189.05	.33978
#1	.15499	1.8050	.00137	-.00054	1.3339
#2	.15414	1.8046	.00279	.00377	1.3403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.12725**	**.00035**	**-.00193**	**.00091**
Stddev	.00007	.00036	.00001	.00040	.00034
%RSD	16.610	.28449	2.1510	20.453	37.010
#1	.00045	.12700	.00036	-.00165	.00067
#2	.00035	.12751	.00035	-.00221	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121205-a-2-f Acquired: 7/26/2017 12:16:22 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.12996
Stddev	.00123
%RSD	.94851
#1	.12909
#2	.13083
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2749.9	2141.2	14846.	3131.0
Stddev	3.9	3.6	60.	4.1
%RSD	.14111	.16877	.40747	.13121
#1	2747.1	2138.6	14888.	3133.9
#2	2752.6	2143.8	14803.	3128.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.748%	88.842%	86.159%	98.307%
Range				

Sample Name: 480-121205-a-5-d Acquired: 7/26/2017 12:19:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.50582**	**.00605**	**.03082**	**.22991**
Stddev	.00093	.00523	.00011	.00034	.00014
%RSD	1003.4	1.0336	1.8877	1.1068	.06271
#1	.00056	.50951	.00613	.03106	.22981
#2	-.00075	.50212	.00597	.03058	.23002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**75.419**	**.00212**	**-.0353**	**.01601**
Stddev	.00001	.431	.00012	.0180	.00012
%RSD	2.3572	.57169	5.8784	51.08	.73211
#1	.00036	75.114	.00221	-.0225	.01593
#2	.00035	75.723	.00203	-.0480	.01610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**.00410**	**.34566**	**4.0765**	**-.00071**
Stddev	.00044	.00109	.00316	.0643	.00083
%RSD	19.185	26.507	.91416	1.5760	116.22
#1	.00200	.00487	.34342	4.0311	-.00130
#2	.00263	.00333	.34789	4.1219	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121205-a-5-d Acquired: 7/26/2017 12:19:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94329**	**.84518**	**.00112**	**1461.7**	**.01291**
Stddev	.00847	.00049	.00026	9.0	.00021
%RSD	.89839	.05772	22.882	.61693	1.6459
#1	.93730	.84483	.00130	1455.3	.01306
#2	.94928	.84552	.00094	1468.1	.01276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34817**	**2.3883**	**.00167**	**.00744**	**1.2585**
Stddev	.00090	.0020	.00001	.00065	.0089
%RSD	.25794	.08307	.50439	8.7086	.70874
#1	.34753	2.3869	.00168	.00699	1.2648
#2	.34880	2.3897	.00167	.00790	1.2522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**.09873**	**.00055**	**-.00193**	**.00114**
Stddev	.00022	.00047	.00007	.00154	.00013
%RSD	18.804	.47999	12.019	79.483	11.730
#1	.00132	.09839	.00050	-.00302	.00123
#2	.00101	.09906	.00059	-.00085	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121205-a-5-d Acquired: 7/26/2017 12:19:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.07113**
Stddev	.00004
%RSD	.04991
#1	.07115
#2	.07110
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2753.9**	**2142.0**	**14850.**	**3155.8**
Stddev	5.2	5.2	10.	23.9
%RSD	.18977	.24389	.06515	.75822
#1	2757.6	2145.7	14856.	3172.7
#2	2750.2	2138.3	14843.	3138.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.857%	88.875%	86.181%	99.084%
Range				

Sample Name: 480-121365-a-2-b Acquired: 7/26/2017 12:23:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.31692**	**.05899**	**1.4065**	**.05841**
Stddev	.00151	.01307	.00142	.0017	.00003
%RSD	394.78	4.1236	2.4096	.12353	.04856
#1	-.00145	.32616	.05799	1.4078	.05839
#2	.00068	.30768	.06000	1.4053	.05843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**77.741**	**.00286**	**-.0314**	**.00002**
Stddev	.00009	.287	.00009	.0236	.00010
%RSD	165.93	.36922	3.0508	75.03	525.01
#1	.00011	77.944	.00292	-.0481	.00009
#2	-.00001	77.538	.00280	-.0148	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00437**	**-.00039**	**.08199**	**1.8690**	**-.00224**
Stddev	.00083	.00034	.00183	.0313	.00009
%RSD	19.002	87.225	2.2323	1.6770	4.0262
#1	.00495	-.00015	.08070	1.8468	-.00230
#2	.00378	-.00064	.08329	1.8912	-.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-a-2-b Acquired: 7/26/2017 12:23:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1355**	**.20617**	**.64543**	**1460.4**	**.01890**
Stddev	.0016	.00064	.00088	1.3	.00028
%RSD	.13753	.30981	.13637	.08608	1.4857
#1	1.1344	.20572	.64605	1459.5	.01870
#2	1.1366	.20662	.64480	1461.3	.01910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00270**	**13.166**	**.00046**	**.00591**	**.21499**
Stddev	.00085	.028	.00244	.00043	.00174
%RSD	31.426	.20922	525.67	7.3089	.81060
#1	.00330	13.186	-.00126	.00622	.21376
#2	.00210	13.147	.00219	.00561	.21622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.05912**	**-.00050**	**-.00100**	**.00002**
Stddev	.00059	.00002	.00050	.00073	.00016
%RSD	70.698	.03587	98.539	73.179	980.90
#1	.00125	.05911	-.00015	-.00048	-.00010
#2	.00042	.05914	-.00085	-.00152	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-a-2-b Acquired: 7/26/2017 12:23:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **23.642**
Stddev	.194
%RSD	.81861
#1	23.505
#2	23.779
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2791.8**	**2154.6**	**15076.**	**3193.8**
Stddev	6.9	1.3	49.	11.0
%RSD	.24687	.06123	.32543	.34545
#1	2796.6	2155.5	15111.	3186.0
#2	2786.9	2153.7	15042.	3201.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.871%	89.399%	87.497%	100.28%
Range				

Sample Name: 480-121365-a-3-b Acquired: 7/26/2017 12:26:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00128**	**.14150**	**.72894**	**.15486**	**.10529**
Stddev	.00016	.01033	.00003	.00005	.00014
%RSD	12.612	7.2973	.00355	.03331	.12992
#1	-.00140	.13420	.72892	.15482	.10519
#2	-.00117	.14880	.72896	.15490	.10538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**11.895**	**-.00016**	**.0088**	**.08142**
Stddev	.00007	.130	.00001	.0066	.00008
%RSD	10.862	1.0951	8.4632	75.16	.09465
#1	.00066	11.987	-.00015	.0041	.08147
#2	.00057	11.803	-.00017	.0135	.08136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00439**	**.00942**	**.26112**	**1.0221**	**.00372**
Stddev	.00043	.00035	.00186	.0053	.00002
%RSD	9.8496	3.7663	.71395	.51668	.61030
#1	.00470	.00917	.26244	1.0258	.00371
#2	.00409	.00967	.25980	1.0183	.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-a-3-b Acquired: 7/26/2017 12:26:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1467**	**.04032**	**.01060**	**1399.5**	**.00572**
Stddev	.0112	.00002	.00006	15.1	.00023
%RSD	.52063	.03975	.61288	1.0791	4.0543
#1	2.1388	.04031	.01055	1410.2	.00555
#2	2.1546	.04033	.01065	1388.8	.00588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00974**	**14.089**	**-.00011**	**.00380**	**24.813**
Stddev	.00097	.044	.00120	.00028	.687
%RSD	10.002	.31179	1088.1	7.3178	2.7706
#1	.01043	14.058	-.00096	.00360	25.299
#2	.00905	14.120	.00074	.00400	24.327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.23774**	**.00090**	**-.00081**	**.00127**
Stddev	.00084	.00184	.00006	.00004	.00017
%RSD	93.583	.77468	6.1298	4.8686	13.302
#1	.00030	.23904	.00086	-.00084	.00115
#2	.00149	.23643	.00094	-.00079	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-a-3-b Acquired: 7/26/2017 12:26:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02058**
Stddev	.00040
%RSD	1.9271
#1	.02030
#2	.02087
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2832.1**	**2208.3**	**15160.**	**3193.5**
Stddev	6.1	1.4	20.	44.8
%RSD	.21552	.06407	.13340	1.4036
#1	2827.7	2207.3	15174.	3161.8
#2	2836.4	2209.3	15146.	3225.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.952%	91.628%	87.983%	100.27%
Range				

Sample Name: 480-121389-a-2-b Acquired: 7/26/2017 12:30:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.31359**	**.00654**	**.10974**	**.38657**
Stddev	.00012	.00064	.00155	.00010	.00134
%RSD	20.613	.20375	23.655	.08917	.34676
#1	-.00052	.31404	.00545	.10967	.38562
#2	-.00069	.31313	.00764	.10981	.38752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**47.679**	**.01395**	**-.0108**	**.00259**
Stddev	.00012	.288	.00025	.0062	.00009
%RSD	95.335	.60374	1.8154	57.66	3.6142
#1	.00021	47.475	.01377	-.0152	.00266
#2	.00004	47.883	.01413	-.0064	.00252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00146**	**.02897**	**.20590**	**2.4936**	**.00597**
Stddev	.00050	.00031	.00196	.0495	.00093
%RSD	34.286	1.0859	.94967	1.9859	15.665
#1	.00111	.02875	.20452	2.4586	.00663
#2	.00181	.02920	.20728	2.5286	.00531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-b Acquired: 7/26/2017 12:30:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.808**	**.08203**	**.00201**	**1364.5**	**.01391**
Stddev	.035	.00050	.00019	8.5	.00028
%RSD	.18728	.60537	9.2868	.62163	2.0148
#1	18.783	.08168	.00188	1358.5	.01411
#2	18.833	.08238	.00214	1370.5	.01371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05764**	**3.4152**	**.00432**	**.00221**	**1.6021**
Stddev	.00071	.0070	.00049	.00234	.0252
%RSD	1.2361	.20425	11.386	105.77	1.5748
#1	.05713	3.4201	.00398	.00056	1.5843
#2	.05814	3.4103	.00467	.00386	1.6199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.09536**	**.00244**	**-.00127**	**.00584**
Stddev	.00010	.00021	.00006	.00097	.00041
%RSD	20.350	.21510	2.4343	76.224	7.0235
#1	.00058	.09521	.00248	-.00059	.00555
#2	.00043	.09550	.00240	-.00196	.00613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-b Acquired: 7/26/2017 12:30:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.7278**
Stddev	.0030
%RSD	.17241
#1	1.7299
#2	1.7257
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2794.4**	**2158.8**	**14925.**	**3125.5**
Stddev	4.5	7.3	40.	17.5
%RSD	.16234	.33668	.26929	.56134
#1	2797.6	2163.9	14953.	3137.9
#2	2791.2	2153.6	14897.	3113.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.942%	89.571%	86.619%	98.135%
Range				

Sample Name: 480-121389-a-2-bSD@5 Acquired: 7/26/2017 12:33:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.09739**	**.00012**	**.02217**	**.07392**
Stddev	.00098	.00549	.00128	.00020	.00007
%RSD	444.08	5.6353	1025.6	.91991	.09217
#1	-.00092	.09351	-.00078	.02231	.07387
#2	.00047	.10127	.00103	.02203	.07397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**9.1568**	**.00249**	**-.0381**	**.00034**
Stddev	.00002	.0302	.00012	.0025	.00020
%RSD	134.22	.33010	4.8608	6.565	59.148
#1	-.00003	9.1355	.00258	-.0364	.00048
#2	-.00000	9.1782	.00241	-.0399	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00588**	**.04073**	**.52177**	**.00101**
Stddev	.00022	.00106	.00153	.02608	.00053
%RSD	83.091	17.984	3.7546	4.9982	52.578
#1	.00041	.00513	.04182	.54021	.00139
#2	.00011	.00663	.03965	.50333	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-bSD@5 Acquired: 7/26/2017 12:33:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6149**	**.01518**	**.00023**	**257.87**	**.00247**
Stddev	.0202	.00013	.00018	.76	.00010
%RSD	.55745	.85796	78.568	.29566	4.2013
#1	3.6291	.01509	.00010	258.41	.00240
#2	3.6006	.01527	.00035	257.33	.00255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01049**	**.59425**	**.00266**	**.00052**	**.32924**
Stddev	.00072	.00381	.00295	.00124	.00280
%RSD	6.8329	.64053	110.94	236.62	.85124
#1	.00998	.59694	.00057	.00140	.33123
#2	.01099	.59155	.00475	-.00035	.32726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.01821**	**.00031**	**.00097**	**.00159**
Stddev	.00009	.00002	.00030	.00082	.00002
%RSD	30.383	.10414	97.245	84.721	1.0669
#1	.00037	.01822	.00052	.00039	.00161
#2	.00024	.01820	.00010	.00155	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-bSD@5 Acquired: 7/26/2017 12:33:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.32360**
Stddev	.00077
%RSD	.23761
#1	.32305
#2	.32414
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3202.1**	**2283.2**	**16092.**	**3128.4**
Stddev	1.1	2.8	51.	4.6
%RSD	.03499	.12281	.31905	.14615
#1	3202.9	2285.2	16129.	3125.1
#2	3201.3	2281.2	16056.	3131.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.875%	94.734%	93.394%	98.224%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 12:37:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49821**	**25.284**	**.49879**	**.51123**	**.50586**
Stddev	.00064	.041	.00072	.00038	.00033
%RSD	.12923	.16045	.14350	.07469	.06579
#1	.49775	25.313	.49930	.51096	.50610
#2	.49866	25.256	.49829	.51150	.50563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51426**	**25.205**	**.50873**	**-.0526**	**.49850**
Stddev	.00249	.105	.00027	.0062	.00091
%RSD	.48365	.41818	.05359	11.72	.18246
#1	.51601	25.279	.50853	-.0482	.49914
#2	.51250	25.130	.50892	-.0569	.49785
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51174**	**.52092**	**24.831**	**25.564**	**.50374**
Stddev	.00054	.00360	.113	.222	.00218
%RSD	.10578	.69168	.45342	.87011	.43187
#1	.51212	.51837	24.910	25.721	.50528
#2	.51135	.52346	24.751	25.407	.50220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 12:37:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.551**	**.52233**	**.50475**	**25.221**	**.50614**
Stddev	.044	.00050	.00004	.118	.00060
%RSD	.17372	.09614	.00780	.46648	.11819
#1	25.583	.52197	.50472	25.304	.50657
#2	25.520	.52268	.50477	25.137	.50572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50153**	**25.011**	**.50555**	**.50223**	**24.588**
Stddev	.00217	.012	.00186	.00128	.010
%RSD	.43357	.04889	.36772	.25564	.04011
#1	.50306	25.020	.50423	.50132	24.581
#2	.49999	25.002	.50686	.50314	24.595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50922**	**.49817**	**.50461**	**.50430**	**.50756**
Stddev	.00069	.00104	.00258	.00010	.00103
%RSD	.13535	.20894	.51043	.01926	.20202
#1	.50971	.49890	.50643	.50423	.50829
#2	.50874	.49743	.50278	.50437	.50684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 12:37:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50747**
Stddev	.00001
%RSD	.00144
#1	.50746
#2	.50747
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3382.0**	**2359.9**	**16596.**	**3170.8**
Stddev	5.3	3.4	49.	18.3
%RSD	.15803	.14421	.29516	.57849
#1	3378.2	2357.5	16631.	3157.8
#2	3385.8	2362.3	16561.	3183.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 12:40:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.01173**	**.00015**	**.00117**	**.00003**
Stddev	.00012	.00598	.00007	.00018	.00001
%RSD	30.916	50.984	50.686	15.627	35.419
#1	-.00046	-.00750	.00020	.00104	.00002
#2	-.00029	-.01596	.00009	.00130	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00099**	**-.00008**	**-.0140**	**-.00010**
Stddev	.00002	.00072	.00000	.0137	.00008
%RSD	124.87	72.726	.37246	97.62	82.530
#1	.00004	.00048	-.00008	-.0237	-.00015
#2	.00000	.00149	-.00008	-.0043	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00083**	**.00193**	**.01427**	**-.00105**
Stddev	.00009	.00100	.00068	.00503	.00147
%RSD	3514.4	120.54	35.360	35.260	140.19
#1	-.00006	.00154	.00145	.01783	-.00001
#2	.00006	.00012	.00241	.01071	-.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 12:40:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00462**	**.00004**	**.00020**	**.10855**	**-.00008**
Stddev	.00098	.00002	.00005	.00592	.00033
%RSD	21.136	46.613	23.592	5.4510	385.74
#1	.00393	.00005	.00024	.11273	.00015
#2	.00531	.00003	.00017	.10436	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00077**	**-.00007**	**.00385**	**.02287**
Stddev	.00072	.00061	.00043	.00526	.00820
%RSD	166.16	79.338	625.54	136.78	35.863
#1	-.00008	.00034	-.00037	.00013	.01707
#2	.00094	.00121	.00023	.00757	.02867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00001**	**.00053**	**.00022**	**.00020**
Stddev	.00045	.00010	.00035	.00074	.00033
%RSD	222.49	1683.4	65.623	341.23	168.38
#1	.00012	.00007	.00077	-.00031	.00043
#2	-.00052	-.00008	.00028	.00074	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 12:40:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00074
Stddev	.00004
%RSD	5.7178
#1	.00071
#2	.00077
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3709.1	2391.4	17026.	3156.6
Stddev	3.5	2.6	15.	7.4
%RSD	.09524	.10769	.08742	.23445
#1	3711.6	2389.6	17015.	3161.8
#2	3706.6	2393.3	17036.	3151.3

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:44:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00580**	**.20482**	**.01504**	**.02089**	**.00212**
Stddev	.00016	.02230	.00017	.00017	.00000
%RSD	2.7441	10.888	1.1463	.81766	.05937
#1	.00568	.18905	.01492	.02077	.00212
#2	.00591	.22059	.01516	.02101	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.50581**	**.00204**	**-.0175**	**.00393**
Stddev	.00002	.00030	.00000	.0016	.00009
%RSD	.83499	.05973	.10339	9.247	2.3598
#1	.00204	.50602	.00204	-.0164	.00400
#2	.00202	.50560	.00204	-.0187	.00387
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00420**	**.01147**	**.05089**	**.53724**	**.02871**
Stddev	.00038	.00027	.00119	.02341	.00014
%RSD	8.9676	2.3610	2.3328	4.3570	.49181
#1	.00447	.01166	.05173	.52069	.02861
#2	.00393	.01128	.05005	.55379	.02881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:44:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20757**	**.00308**	**.01015**	**1.0898**	**.00964**
Stddev	.00122	.00011	.00035	.0090	.00012
%RSD	.58839	3.6572	3.4081	.82406	1.1994
#1	.20671	.00315	.01039	1.0834	.00956
#2	.20844	.00300	.00990	1.0961	.00972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01018**	**.19420**	**.01959**	**.02418**	**.49677**
Stddev	.00112	.00110	.00012	.00182	.00371
%RSD	11.020	.56423	.62994	7.5159	.74641
#1	.01098	.19497	.01967	.02289	.49940
#2	.00939	.19342	.01950	.02546	.49415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00947**	**.00494**	**.00447**	**.02094**	**.00493**
Stddev	.00056	.00007	.00010	.00067	.00030
%RSD	5.9260	1.3920	2.1541	3.1813	6.0547
#1	.00986	.00498	.00454	.02142	.00471
#2	.00907	.00489	.00440	.02047	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:44:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01111
Stddev	.00008
%RSD	.69514
#1	.01117
#2	.01106
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3734.7	2415.2	17272.	3186.6
Stddev	1.6	1.5	19.	24.2
%RSD	.04163	.06097	.10883	.76076
#1	3733.6	2414.2	17285.	3169.5
#2	3735.8	2416.3	17259.	3203.8

Sample Name: 480-121389-a-2-b PDS Acquired: 7/26/2017 12:47:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0236**	**.35757**	**1.0922**	**.12627**	**1.4610**
Stddev	.0028	.00785	.0054	.00040	.0017
%RSD	.27728	2.1950	.49757	.31472	.11620
#1	1.0256	.36312	1.0960	.12655	1.4622
#2	1.0216	.35202	1.0883	.12599	1.4598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0129**	**55.777**	**1.0951**	**-.0584**	**1.0325**
Stddev	.0003	.074	.0012	.0117	.0008
%RSD	.03090	.13346	.10791	20.09	.07525
#1	1.0127	55.829	1.0959	-.0667	1.0331
#2	1.0132	55.724	1.0943	-.0501	1.0320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0219**	**1.0710**	**.23661**	**2.7952**	**.00986**
Stddev	.0026	.0012	.00433	.0010	.00097
%RSD	.25650	.11199	1.8308	.03462	9.8869
#1	1.0237	1.0701	.23354	2.7959	.01055
#2	1.0200	1.0718	.23967	2.7945	.00917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-b PDS Acquired: 7/26/2017 12:47:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.855**	**1.0916**	**.98346**	**1597.8**	**1.0643**
Stddev	.007	.0029	.00193	.3	.0013
%RSD	.03334	.26608	.19588	.01597	.12228
#1	21.860	1.0936	.98482	1598.0	1.0634
#2	21.850	1.0895	.98210	1597.6	1.0653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1200**	**3.9974**	**1.0321**	**1.0828**	**1.7576**
Stddev	.0024	.0073	.0028	.0007	.0123
%RSD	.21434	.18191	.26972	.06661	.70079
#1	1.1183	4.0025	1.0341	1.0833	1.7663
#2	1.1217	3.9923	1.0302	1.0823	1.7489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.11169**	**.00392**	**.96092**	**1.0303**
Stddev	.00052	.00029	.00154	.00026	.0039
%RSD	198.79	.26385	39.171	.02752	.37841
#1	.00063	.11148	.00501	.96073	1.0331
#2	-.00011	.11190	.00283	.96110	1.0275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-b PDS Acquired: 7/26/2017 12:47:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**3.0812**
Stddev	.0084
%RSD	.27161
#1	3.0871
#2	3.0752
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2726.3**	**2123.4**	**14713.**	**3105.7**
Stddev	5.7	2.9	91.	3.9
%RSD	.20982	.13602	.61693	.12544
#1	2730.4	2125.5	14649.	3108.5
#2	2722.3	2121.4	14777.	3102.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.116%	88.105%	85.390%	97.512%
Range				

Sample Name: 480-121389-a-2-c ms Acquired: 7/26/2017 12:50:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0189**	**.28384**	**1.0527**	**.10402**	**1.3430**
Stddev	.0073	.01377	.0003	.00014	.0050
%RSD	.72006	4.8531	.03147	.13333	.37323
#1	1.0137	.29358	1.0530	.10392	1.3394
#2	1.0241	.27410	1.0525	.10411	1.3465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99882**	**45.898**	**1.0694**	**-.0407**	**1.0074**
Stddev	.00154	.108	.0017	.0162	.0005
%RSD	.15410	.23481	.15881	39.80	.05143
#1	.99773	45.821	1.0706	-.0292	1.0078
#2	.99991	45.974	1.0682	-.0521	1.0071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99869**	**1.0277**	**.19062**	**2.4103**	**.00642**
Stddev	.00651	.0002	.00195	.0621	.00132
%RSD	.65220	.02171	1.0219	2.5780	20.556
#1	.99408	1.0278	.18924	2.3664	.00549
#2	1.0033	1.0275	.19200	2.4542	.00735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-c ms Acquired: 7/26/2017 12:50:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.206**	**1.0636**	**.95138**	**1311.8**	**1.0321**
Stddev	.065	.0029	.00015	4.6	.0024
%RSD	.35601	.27634	.01552	.34814	.23599
#1	18.160	1.0615	.95127	1308.6	1.0338
#2	18.252	1.0657	.95148	1315.1	1.0303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0808**	**3.2975**	**.98363**	**1.0555**	**1.4378**
Stddev	.0020	.0083	.00427	.0036	.0006
%RSD	.18151	.25324	.43431	.33634	.04377
#1	1.0794	3.3034	.98665	1.0530	1.4373
#2	1.0822	3.2916	.98061	1.0580	1.4382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**1.0323**	**.00269**	**.93538**	**1.0035**
Stddev	.00020	.0013	.00029	.00195	.0065
%RSD	21.795	.12422	10.729	.20876	.64504
#1	.00078	1.0332	.00249	.93400	.99897
#2	.00106	1.0313	.00290	.93676	1.0081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-c ms Acquired: 7/26/2017 12:50:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.7144**
Stddev	.0186
%RSD	.68340
#1	2.7012
#2	2.7275
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2800.7**	**2163.1**	**14919.**	**3162.5**
Stddev	1.9	4.0	116.	17.6
%RSD	.06759	.18551	.78056	.55737
#1	2799.4	2160.3	15002.	3175.0
#2	2802.1	2165.9	14837.	3150.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.111%	89.751%	86.586%	99.296%
Range				

Sample Name: 480-121389-a-2-d msd Acquired: 7/26/2017 12:54:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0763**	**.30475**	**1.1095**	**.10835**	**1.4267**
Stddev	.0055	.01564	.0018	.00028	.0041
%RSD	.51328	5.1311	.16284	.25926	.28926
#1	1.0802	.29369	1.1108	.10816	1.4296
#2	1.0724	.31580	1.1083	.10855	1.4238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0618**	**48.628**	**1.1242**	**-.0647**	**1.0593**
Stddev	.0003	.000	.0022	.0253	.0004
%RSD	.02328	.00052	.19801	39.10	.04206
#1	1.0616	48.627	1.1258	-.0826	1.0596
#2	1.0620	48.628	1.1226	-.0468	1.0590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0495**	**1.0812**	**.20757**	**2.5310**	**.00601**
Stddev	.0044	.0012	.00410	.0368	.00095
%RSD	.42106	.10729	1.9767	1.4551	15.836
#1	1.0526	1.0804	.20467	2.5050	.00533
#2	1.0464	1.0820	.21047	2.5571	.00668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-d msd Acquired: 7/26/2017 12:54:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.057**	**1.1181**	**1.0016**	**1394.3**	**1.0837**
Stddev	.030	.0009	.0001	.7	.0003
%RSD	.15798	.08067	.01332	.05258	.02406
#1	19.036	1.1187	1.0015	1394.8	1.0835
#2	19.079	1.1175	1.0017	1393.8	1.0839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1365**	**3.4598**	**1.0381**	**1.1162**	**1.4845**
Stddev	.0000	.0150	.0027	.0033	.0012
%RSD	.00187	.43415	.26396	.29166	.07759
#1	1.1365	3.4704	1.0400	1.1139	1.4853
#2	1.1365	3.4491	1.0362	1.1185	1.4837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**1.0896**	**.00192**	**.98088**	**1.0548**
Stddev	.00028	.0021	.00001	.00374	.0049
%RSD	30.711	.18809	.68969	.38173	.46773
#1	.00112	1.0882	.00191	.98353	1.0583
#2	.00072	1.0911	.00193	.97823	1.0514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-d msd Acquired: 7/26/2017 12:54:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.8492**
Stddev	.0062
%RSD	.21653
#1	2.8536
#2	2.8449
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2762.7**	**2137.0**	**14785.**	**3081.5**
Stddev	5.1	4.7	8.	21.9
%RSD	.18471	.22152	.05335	.70957
#1	2759.0	2133.6	14790.	3096.9
#2	2766.3	2140.3	14779.	3066.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.090%	88.667%	85.804%	96.751%
Range				

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 12:57:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00404**	**.19880**	**.46916**	**7.3252**	**.62985**
Stddev	.00010	.00733	.00003	.0149	.00190
%RSD	2.5219	3.6882	.00552	.20358	.30113
#1	-.00411	.19362	.46914	7.3358	.62851
#2	-.00397	.20399	.46918	7.3147	.63119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**33.687**	**.03887**	**-.0230**	**.03545**
Stddev	.00005	.051	.00023	.0148	.00047
%RSD	252.38	.15129	.58015	64.17	1.3286
#1	-.00006	33.651	.03871	-.0335	.03512
#2	.00002	33.723	.03902	-.0126	.03578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24422**	**-.00537**	F **876.06**	**1.3083**	**.12299**
Stddev	.00081	.00165	1.88	.0140	.00047
%RSD	.33326	30.745	.21476	1.0665	.38375
#1	.24480	-.00654	874.73	1.2985	.12266
#2	.24364	-.00420	877.39	1.3182	.12333
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			540.00		
Low Limit			-.05000		

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 12:57:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0373**	**17.746**	**.03778**	**1457.2**	**.78942**
Stddev	.0097	.109	.00033	3.1	.00161
%RSD	.93015	.61180	.88205	.21595	.20405
#1	1.0305	17.670	.03801	1455.0	.78828
#2	1.0441	17.823	.03754	1459.5	.79056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98366**	**42.596**	**.02176**	**.00558**	**2.1222**
Stddev	.00237	.114	.00068	.00451	.0179
%RSD	.24058	.26712	3.1307	80.915	.84316
#1	.98199	42.677	.02128	.00877	2.1348
#2	.98534	42.516	.02224	.00239	2.1095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02407**	**.08979**	**.06087**	**-.01189**	**.04160**
Stddev	.00111	.00003	.00039	.00271	.00008
%RSD	4.6048	.03467	.64256	22.791	.20369
#1	.02329	.08977	.06115	-.00998	.04166
#2	.02486	.08981	.06059	-.01381	.04154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 12:57:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.0659**
Stddev	.0055
%RSD	.26672
#1	2.0620
#2	2.0698
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2623.0**	**2110.1**	**14571.**	**3074.6**
Stddev	.7	3.4	10.	6.6
%RSD	.02744	.16345	.06930	.21354
#1	2623.5	2107.7	14578.	3070.0
#2	2622.4	2112.6	14564.	3079.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.344%	87.553%	84.563%	96.536%
Range				

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 13:01:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00142**	**.06302**	**.08642**	**1.5080**	**.12583**
Stddev	.00060	.02142	.00133	.0018	.00015
%RSD	42.053	33.994	1.5373	.11808	.11787
#1	-.00100	.07817	.08548	1.5092	.12594
#2	-.00185	.04787	.08736	1.5067	.12573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**6.6168**	**.00755**	**-.0389**	**.00640**
Stddev	.00004	.0402	.00007	.0031	.00014
%RSD	1318.4	.60744	.89402	7.997	2.2303
#1	-.00003	6.6452	.00760	-.0411	.00650
#2	.00003	6.5884	.00750	-.0367	.00630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04753**	**-.00100**	**170.84**	**.25296**	**.02237**
Stddev	.00019	.00010	.82	.02138	.00134
%RSD	.39966	10.337	.47899	8.4503	6.0109
#1	.04740	-.00093	171.41	.26807	.02332
#2	.04767	-.00108	170.26	.23784	.02142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 13:01:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22146**	**3.2612**	**.00742**	**277.27**	**.14658**
Stddev	.00091	.0045	.00017	.16	.00014
%RSD	.40902	.13897	2.3003	.05879	.09486
#1	.22210	3.2579	.00730	277.39	.14648
#2	.22082	3.2644	.00754	277.16	.14668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18572**	**8.1515**	**.00479**	**.00224**	**.42491**
Stddev	.00072	.0041	.00143	.00207	.00741
%RSD	.38639	.05068	29.878	92.371	1.7431
#1	.18623	8.1486	.00378	.00078	.41968
#2	.18521	8.1544	.00581	.00370	.43015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00465**	**.01742**	**.01165**	**-.00082**	**.00778**
Stddev	.00052	.00002	.00028	.00093	.00057
%RSD	11.206	.12173	2.3657	113.38	7.2605
#1	.00428	.01743	.01146	-.00147	.00738
#2	.00502	.01740	.01185	-.00016	.00818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 13:01:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.40667**
Stddev	.00306
%RSD	.75360
#1	.40450
#2	.40884
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3155.6**	**2280.0**	**15929.**	**3171.5**
Stddev	3.2	3.1	18.	17.3
%RSD	.10088	.13799	.11446	.54438
#1	3153.3	2277.8	15942.	3159.3
#2	3157.8	2282.3	15916.	3183.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.627%	94.603%	92.445%	99.577%
Range				

Sample Name: BLANK Acquired: 7/26/2017 13:04:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.02516**	**-.00046**	**.01105**	**.00231**
Stddev	.00023	.02725	.00203	.00041	.00004
%RSD	34.616	108.29	444.20	3.7182	1.7609
#1	-.00083	.04443	-.00189	.01134	.00234
#2	-.00051	.00590	.00098	.01076	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.02177**	**.00088**	**-.0461**	**-.00050**
Stddev	.00006	.00014	.00009	.0007	.00000
%RSD	146.97	.62326	10.401	1.526	.15671
#1	.00000	.02168	.00095	-.0456	-.00050
#2	-.00009	.02187	.00082	-.0466	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00246**	**-.00001**	**.01147**	**.01523**	**-.00211**
Stddev	.00014	.00031	.00123	.04249	.00070
%RSD	5.7338	3091.2	10.678	279.10	33.207
#1	.00236	-.00023	.01061	.04527	-.00261
#2	.00256	.00021	.01234	-.01482	-.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:04:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00037**	**.00065**	**.15928**	**-.00059**
Stddev	.00393	.00001	.00023	.00677	.00019
%RSD	720.57	3.6228	35.032	4.2490	32.451
#1	-.00224	.00038	.00049	.15449	-.00072
#2	.00333	.00036	.00081	.16407	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00265**	**.00503**	**.00370**	**.00186**	**.27114**
Stddev	.00026	.00111	.00104	.00151	.00855
%RSD	9.8536	22.141	28.235	81.077	3.1522
#1	.00247	.00424	.00296	.00079	.26510
#2	.00284	.00582	.00444	.00292	.27719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00317**	**.00099**	**.00021**	**-.00341**	**.00020**
Stddev	.00041	.00016	.00043	.00069	.00017
%RSD	12.775	15.690	200.01	20.356	84.628
#1	.00346	.00111	.00051	-.00390	.00032
#2	.00289	.00088	-.00009	-.00292	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:04:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00285
Stddev	.00069
%RSD	24.062
#1	.00237
#2	.00334
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3502.5	2124.5	16051.	3086.5
Stddev	.6	3.7	145.	6.4
%RSD	.01849	.17474	.90067	.20619
#1	3502.9	2121.9	15949.	3091.0
#2	3502.0	2127.1	16153.	3082.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.931%	88.150%	93.155%	96.908%
Range				

Sample Name: lb 480-368302/1-b Acquired: 7/26/2017 13:08:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.01973**	**.00011**	**.01213**	**.00217**
Stddev	.00041	.00992	.00115	.00005	.00003
%RSD	29.512	50.276	1030.5	.43489	1.2487
#1	-.00110	.02675	-.00070	.01216	.00215
#2	-.00168	.01272	.00093	.01209	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.06284**	**.00008**	**-.0012**	**-.00012**
Stddev	.00004	.00118	.00003	.0015	.00014
%RSD	127.36	1.8756	40.635	120.1	113.29
#1	-.00000	.06368	.00006	-.0002	-.00022
#2	-.00007	.06201	.00010	-.0023	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00040**	**.00371**	**.01821**	**-.00071**
Stddev	.00048	.00018	.00024	.03653	.00057
%RSD	146.27	45.197	6.5317	200.67	80.573
#1	-.00001	.00053	.00388	-.00763	-.00111
#2	.00066	.00027	.00353	.04404	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lb 480-368302/1-b Acquired: 7/26/2017 13:08:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01463**	**.00046**	**-.00005**	**.45341**	**.00016**
Stddev	.00526	.00003	.00007	.00428	.00013
%RSD	35.977	6.4668	161.01	.94336	78.805
#1	.01835	.00048	.00001	.45039	.00025
#2	.01091	.00044	-.00010	.45644	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.02319**	**.00043**	**.00227**	**.05165**
Stddev	.00016	.00235	.00002	.00285	.00146
%RSD	27.222	10.113	4.1772	125.66	2.8171
#1	-.00047	.02485	.00042	.00429	.05268
#2	-.00070	.02153	.00045	.00025	.05063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00157**	**.00017**	**-.00015**	F **-.00057**
Stddev	.00045	.00002	.00017	.00053	.00038
%RSD	104.44	1.3037	104.65	360.33	66.633
#1	-.00074	.00155	.00029	.00023	-.00030
#2	-.00011	.00158	.00004	-.00052	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					.00500
Low Limit					-.00050

Sample Name: lb 480-368302/1-b Acquired: 7/26/2017 13:08:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00203
Stddev	.00075
%RSD	37.179
#1	.00256
#2	.00150
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3837.1	2474.2	17560.	3251.3
Stddev	9.4	6.3	104.	9.2
%RSD	.24539	.25369	.59113	.28268
#1	3843.8	2478.6	17634.	3244.8
#2	3830.5	2469.8	17487.	3257.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.91%	102.66%	101.91%	102.08%
Range				

Sample Name: mb 480-368367/2-a Acquired: 7/26/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.00424**	**.00114**	**.00495**	**.00698**
Stddev	.00008	.00186	.00212	.00014	.00002
%RSD	10.736	43.935	186.06	2.7665	.28617
#1	-.00071	-.00293	-.00036	.00505	.00699
#2	-.00083	-.00556	.00264	.00485	.00696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.05216**	**.00000**	**-.0373**	**-.00017**
Stddev	.00006	.00111	.00001	.0014	.00013
%RSD	3569.3	2.1303	2536.2	3.622	78.558
#1	-.00004	.05295	.00001	-.0383	-.00026
#2	.00004	.05137	-.00001	-.0363	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00032**	**.00425**	**.01273**	**.00058**
Stddev	.00036	.00002	.00006	.02079	.00098
%RSD	162.90	6.0041	1.4935	163.30	167.93
#1	.00048	.00031	.00429	-.00197	-.00011
#2	-.00003	.00034	.00421	.02743	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368367/2-a Acquired: 7/26/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00470**	**.00022**	**-.00014**	**.13183**	**-.00010**
Stddev	.00038	.00002	.00015	.00944	.00012
%RSD	8.0227	9.5972	111.80	7.1620	122.50
#1	.00497	.00021	-.00003	.13851	-.00001
#2	.00443	.00024	-.00024	.12516	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.01479**	**.00128**	**.00183**	**-.01580**
Stddev	.00033	.00060	.00062	.00022	.00178
%RSD	868.92	4.0753	48.647	12.283	11.245
#1	.00027	.01436	.00084	.00167	-.01706
#2	-.00019	.01522	.00173	.00199	-.01455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.00772**	**.00029**	**.00072**	**.00021**
Stddev	.00008	.00005	.00050	.00033	.00000
%RSD	12.730	.68212	172.65	45.911	2.1326
#1	-.00060	.00769	.00064	.00049	.00021
#2	-.00072	.00776	-.00006	.00095	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368367/2-a Acquired: 7/26/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00111
Stddev	.00028
%RSD	25.516
#1	.00131
#2	.00091
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3813.7	2461.6	17452.	3212.0
Stddev	7.0	1.5	156.	8.0
%RSD	.18284	.06231	.89129	.24992
#1	3818.6	2462.7	17562.	3206.3
#2	3808.8	2460.6	17342.	3217.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.28%	102.14%	101.29%	100.85%
Range				

Sample Name: lcs 480-368367/3-a Acquired: 7/26/2017 13:15:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97157**	**.01164**	**.96791**	**.01070**	**1.0085**
Stddev	.00410	.01877	.00525	.00050	.0029
%RSD	.42250	161.24	.54266	4.6749	.28406
#1	.97448	.02491	.96419	.01105	1.0065
#2	.96867	-.00163	.97162	.01034	1.0106
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0132**	**.07433**	**1.0145**	**-.0238**	**.93058**
Stddev	.0005	.00119	.0001	.0163	.00009
%RSD	.05275	1.5961	.01073	68.37	.00948
#1	1.0128	.07350	1.0145	-.0123	.93064
#2	1.0136	.07517	1.0146	-.0353	.93052
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0019**	**1.0439**	**.00340**	**-.02374**	**-.00119**
Stddev	.0102	.0011	.00136	.03363	.00180
%RSD	1.0209	.10938	39.937	141.63	151.02
#1	1.0091	1.0431	.00435	-.04752	-.00246
#2	.99466	1.0447	.00244	.00003	.00008
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: lcs 480-368367/3-a Acquired: 7/26/2017 13:15:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**1.0249**	**.98325**	**.45406**	**.95384**
Stddev	.00377	.0038	.00233	.00436	.00094
%RSD	284.12	.37137	.23685	.96011	.09838
#1	.00399	1.0276	.98160	.45098	.95450
#2	-.00134	1.0222	.98489	.45714	.95318
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98060**	**.02925**	**.98668**	**.97189**	**.05321**
Stddev	.00145	.00105	.00013	.00508	.00671
%RSD	.14780	3.6012	.01277	.52308	12.602
#1	.98163	.02999	.98659	.96830	.05795
#2	.97958	.02850	.98677	.97549	.04846
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**1.0063**	**.00000**	**.99755**	**.97682**
Stddev	.00017	.0011	.00018	.00008	.00498
%RSD	86.449	.10988	11266.	.00810	.50990
#1	-.00008	1.0055	.00013	.99749	.98035
#2	-.00031	1.0071	-.00013	.99761	.97330
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368367/3-a Acquired: 7/26/2017 13:15:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0058
Stddev	.0092
%RSD	.91453
#1	1.0123
#2	.99932
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3775.2	2447.2	17444.	3211.9
Stddev	3.7	2.4	20.	.2
%RSD	.09749	.09638	.11720	.00502
#1	3777.8	2448.8	17430.	3212.0
#2	3772.6	2445.5	17459.	3211.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.25%	101.54%	101.24%	100.85%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 13:18:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49833**	**25.406**	**.50042**	**.51220**	**.50641**
Stddev	.00449	.037	.00101	.00006	.00029
%RSD	.90178	.14412	.20115	.01238	.05793
#1	.49515	25.432	.49971	.51216	.50662
#2	.50151	25.380	.50113	.51225	.50620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51604**	**25.189**	**.50868**	**-.0557**	**.49826**
Stddev	.00183	.092	.00061	.0195	.00088
%RSD	.35446	.36449	.11914	35.01	.17690
#1	.51734	25.254	.50911	-.0695	.49889
#2	.51475	25.124	.50826	-.0419	.49764
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51138**	**.52423**	**24.752**	**25.762**	**.50765**
Stddev	.00401	.00160	.108	.179	.00118
%RSD	.78361	.30449	.43666	.69469	.23162
#1	.50855	.52536	24.828	25.889	.50682
#2	.51422	.52310	24.675	25.636	.50848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 13:18:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.489**	**.52418**	**.50569**	**25.282**	**.50541**
Stddev	.006	.00074	.00107	.121	.00127
%RSD	.02498	.14092	.21072	.48010	.25206
#1	25.484	.52365	.50493	25.368	.50631
#2	25.493	.52470	.50644	25.196	.50451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50046**	**25.049**	**.50903**	**.50296**	**24.551**
Stddev	.00006	.016	.00237	.00449	.093
%RSD	.01203	.06565	.46471	.89329	.37758
#1	.50050	25.061	.50736	.50614	24.617
#2	.50042	25.038	.51071	.49979	24.486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50966**	**.49946**	**.50360**	**.50418**	**.50550**
Stddev	.00033	.00115	.00074	.00150	.00381
%RSD	.06412	.23065	.14607	.29804	.75436
#1	.50943	.50028	.50308	.50312	.50281
#2	.50990	.49865	.50412	.50524	.50820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 13:18:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50813
Stddev	.00154
%RSD	.30315
#1	.50704
#2	.50922
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3405.7	2379.2	16629.	3154.2
Stddev	.7	2.2	67.	3.9
%RSD	.02008	.09359	.40244	.12466
#1	3406.2	2377.7	16677.	3151.4
#2	3405.3	2380.8	16582.	3157.0

Sample Name: CCB-4130963 Acquired: 7/26/2017 13:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.01375**	**.00006**	**.00274**	**.00001**
Stddev	.00054	.00423	.00000	.00009	.00000
%RSD	226.66	30.778	2.3514	3.4266	35.959
#1	.00014	.01076	.00006	.00281	.00001
#2	-.00062	.01674	.00006	.00268	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00058**	**.00009**	**-.0252**	**-.00007**
Stddev	.00006	.00418	.00003	.0361	.00006
%RSD	698.88	724.86	39.141	143.3	83.715
#1	.00004	.00353	.00011	-.0508	-.00011
#2	-.00005	-.00238	.00006	.0003	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00062**	**.00130**	**.00075**	**-.00138**
Stddev	.00052	.00056	.00084	.01226	.00119
%RSD	91.675	91.177	64.582	1627.5	86.325
#1	.00020	.00101	.00071	-.00792	-.00054
#2	.00094	.00022	.00190	.00943	-.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 13:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**-.00002**	**.00016**	**.05168**	**.00005**
Stddev	.00243	.00008	.00021	.00151	.00030
%RSD	475.67	369.67	129.85	2.9143	544.49
#1	.00121	.00003	.00031	.05275	.00026
#2	-.00223	-.00008	.00001	.05062	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00206**	**.00130**	**.00223**	**.01702**
Stddev	.00009	.00161	.00138	.00264	.00883
%RSD	1050.3	78.146	106.03	118.42	51.864
#1	.00007	-.00092	.00228	.00036	.01078
#2	-.00006	-.00320	.00033	.00410	.02326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.00000**	**-.00041**	**.00083**	**-.00008**
Stddev	.00033	.00000	.00002	.00005	.00003
%RSD	118.63	453.25	4.9774	6.4674	44.612
#1	-.00052	.00000	-.00043	.00079	-.00010
#2	-.00005	-.00000	-.00040	.00087	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 13:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00045**
Stddev	.00018
%RSD	40.109
#1	.00032
#2	.00057
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3738.6**	**2411.0**	**17129.**	**3176.1**
Stddev	.6	.0	57.	6.5
%RSD	.01578	.00141	.33174	.20452
#1	3738.2	2411.0	17169.	3180.7
#2	3739.1	2411.0	17089.	3171.5

Sample Name: CCVL-4147888 Acquired: 7/26/2017 13:25:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**.20537**	**.01579**	**.02232**	**.00209**
Stddev	.00041	.00174	.00115	.00004	.00001
%RSD	7.0563	.84692	7.2819	.15714	.27231
#1	.00615	.20414	.01498	.02230	.00210
#2	.00556	.20660	.01660	.02235	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.50509**	**.00208**	**-.0205**	**.00385**
Stddev	.00013	.00393	.00006	.0416	.00014
%RSD	6.0219	.77838	2.7333	203.2	3.5883
#1	.00202	.50787	.00212	-.0499	.00375
#2	.00220	.50231	.00204	.0089	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00456**	**.01134**	**.05069**	**.51259**	**.02986**
Stddev	.00009	.00016	.00008	.01475	.00147
%RSD	1.9264	1.4425	.14882	2.8772	4.9066
#1	.00450	.01122	.05075	.50216	.03090
#2	.00462	.01145	.05064	.52302	.02883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 13:25:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19956**	**.00310**	**.01016**	**1.0571**	**.00962**
Stddev	.00109	.00006	.00019	.0094	.00005
%RSD	.54599	1.7827	1.8254	.89337	.52361
#1	.19878	.00306	.01029	1.0504	.00965
#2	.20033	.00314	.01003	1.0638	.00958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00993**	**.19509**	**.02107**	**.02501**	**.51593**
Stddev	.00014	.00148	.00293	.00336	.02920
%RSD	1.4223	.75807	13.886	13.433	5.6599
#1	.01003	.19405	.01901	.02263	.53658
#2	.00983	.19614	.02314	.02739	.49528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00935**	**.00487**	**.00486**	**.01994**	**.00487**
Stddev	.00015	.00002	.00044	.00035	.00016
%RSD	1.5995	.33680	9.0548	1.7549	3.3746
#1	.00924	.00486	.00455	.02019	.00499
#2	.00946	.00488	.00517	.01969	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 13:25:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01172
Stddev	.00059
%RSD	5.0009
#1	.01130
#2	.01213
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3747.6	2424.6	17257.	3174.4
Stddev	.4	1.9	84.	13.2
%RSD	.01046	.07657	.48509	.41437
#1	3747.9	2425.9	17317.	3165.1
#2	3747.4	2423.3	17198.	3183.7

Sample Name: 480-121360-c-1-b@10 Acquired: 7/26/2017 13:28:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.03537**	**-.00277**	**.05893**	F **132.91**
Stddev	.00045	.00941	.00151	.00015	1.27
%RSD	283.24	26.589	54.359	.26284	.95209
#1	.00047	.04202	-.00384	.05882	132.01
#2	-.00016	.02872	-.00171	.05904	133.80
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**242.28**	**-.00165**	**-.0304**	**-.00120**
Stddev	.00005	.65	.00020	.0186	.00021
%RSD	62.356	.26628	12.191	61.37	17.372
#1	-.00004	241.82	-.00179	-.0436	-.00134
#2	-.00010	242.74	-.00151	-.0172	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00154**	**8.0831**	**3.6462**	**2.1754**
Stddev	.00026	.00007	.0041	.0264	.0009
%RSD	101.90	4.7483	.05123	.72317	.04295
#1	.00007	-.00160	8.0802	3.6276	2.1760
#2	.00044	-.00149	8.0861	3.6649	2.1747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121360-c-1-b@10 Acquired: 7/26/2017 13:28:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.848**	**.19348**	**-.00016**	**551.51**	**-.00060**
Stddev	.028	.00030	.00014	.88	.00037
%RSD	.19024	.15741	85.001	.16025	60.765
#1	14.828	.19327	-.00007	550.89	-.00034
#2	14.868	.19370	-.00026	552.14	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00117**	**.03786**	**.00018**	**-.00065**	**.14790**
Stddev	.00207	.00068	.00041	.00002	.00540
%RSD	176.46	1.7831	224.07	3.2275	3.6492
#1	.00029	.03738	-.00011	-.00067	.14408
#2	-.00264	.03834	.00048	-.00064	.15171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	F **59.693**	**-.00046**	**-.00088**	**-.00001**
Stddev	.00032	.028	.00043	.00255	.00035
%RSD	181.66	.04740	94.465	291.62	2572.6
#1	.00005	59.673	-.00077	.00093	-.00026
#2	-.00040	59.713	-.00015	-.00268	.00023
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121360-c-1-b@10 Acquired: 7/26/2017 13:28:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00241
Stddev	.00058
%RSD	24.215
#1	.00200
#2	.00282
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2784.8	2102.5	15187.	3030.6
Stddev	4.1	.9	19.	21.4
%RSD	.14617	.04075	.12743	.70591
#1	2787.7	2103.1	15200.	3045.7
#2	2781.9	2101.9	15173.	3015.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.684%	87.235%	88.137%	95.153%
Range				

Sample Name: 480-121360-c-1-b@100 Acquired: 7/26/2017 13:32:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.03833**	**.00177**	**.00842**	F **14.308**
Stddev	.00020	.00017	.00003	.00066	.022
%RSD	30.767	.44683	1.9434	7.8907	.15197
#1	-.00050	.03821	.00179	.00889	14.324
#2	-.00078	.03845	.00174	.00795	14.293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**24.253**	**-.00027**	**-.0220**	**-.00018**
Stddev	.00002	.058	.00010	.0218	.00015
%RSD	21.173	.23761	38.155	99.07	83.709
#1	-.00010	24.213	-.00020	-.0375	-.00007
#2	-.00013	24.294	-.00035	-.0066	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00023**	**.82656**	**.38678**	**.21243**
Stddev	.00034	.00021	.00031	.01334	.00185
%RSD	165.51	89.819	.03706	3.4490	.87272
#1	.00003	-.00038	.82678	.37734	.21374
#2	-.00044	-.00008	.82635	.39621	.21112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121360-c-1-b@100 Acquired: 7/26/2017 13:32:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5424**	**.01987**	**-.00007**	**54.580**	**-.00037**
Stddev	.0031	.00003	.00023	.076	.00017
%RSD	.19787	.13314	311.93	.13937	46.650
#1	1.5402	.01985	.00009	54.526	-.00049
#2	1.5445	.01989	-.00023	54.634	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00348**	**-.00028**	**.00203**	**.01618**
Stddev	.00144	.00214	.00207	.00295	.00432
%RSD	401.68	61.473	742.42	145.70	26.696
#1	-.00066	.00197	.00119	-.00006	.01923
#2	.00138	.00499	-.00175	.00412	.01312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**6.7134**	**-.00024**	**.00089**	**.00035**
Stddev	.00047	.0360	.00026	.00059	.00013
%RSD	226.95	.53619	109.96	66.189	36.111
#1	.00054	6.6879	-.00043	.00047	.00026
#2	-.00013	6.7388	-.00005	.00130	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121360-c-1-b@100 Acquired: 7/26/2017 13:32:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00405**
Stddev	.00058
%RSD	14.418
#1	.00363
#2	.00446
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3421.1**	**2338.4**	**16610.**	**3134.2**
Stddev	8.9	8.4	60.	21.1
%RSD	.25967	.35772	.36058	.67300
#1	3414.8	2332.5	16567.	3149.1
#2	3427.3	2344.4	16652.	3119.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.748%	97.026%	96.395%	98.407%
Range				

Sample Name: BLANK Acquired: 7/26/2017 13:36:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**-.00906**	**-.00194**	**.00390**	**.00046**
Stddev	.00039	.01188	.00240	.00001	.00001
%RSD	52.788	131.16	123.29	.36148	1.6244
#1	-.00102	-.00066	-.00025	.00391	.00045
#2	-.00046	-.01746	-.00364	.00389	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00085**	**.00091**	**-.0041**	**-.00060**
Stddev	.00000	.00221	.00008	.0206	.00008
%RSD	7.1555	258.36	8.5284	497.6	12.813
#1	-.00004	.00241	.00086	-.0187	-.00054
#2	-.00003	-.00071	.00097	.0104	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00147**	**-.00031**	**.00132**	**.04578**	**-.00115**
Stddev	.00016	.00036	.00074	.00492	.00016
%RSD	10.741	114.86	56.005	10.747	13.796
#1	.00159	-.00056	.00080	.04926	-.00127
#2	.00136	-.00006	.00185	.04230	-.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:36:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**-.00005**	**.00027**	**.09666**	**-.00110**
Stddev	.00774	.00004	.00014	.00244	.00009
%RSD	268.08	88.964	51.696	2.5217	8.0671
#1	.00836	-.00002	.00017	.09493	-.00104
#2	-.00259	-.00007	.00037	.09838	-.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00903**	**.00289**	**.00099**	**.07213**
Stddev	.00025	.00071	.00091	.00044	.00867
%RSD	39.729	7.8779	31.329	44.245	12.023
#1	.00045	-.00953	.00353	.00068	.06600
#2	.00079	-.00853	.00225	.00130	.07826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00007**	**.00042**	**-.00434**	**-.00007**
Stddev	.00017	.00012	.00018	.00025	.00016
%RSD	10.870	160.87	43.665	5.8138	220.13
#1	.00172	.00015	.00054	-.00416	-.00019
#2	.00148	-.00001	.00029	-.00451	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:36:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00017
Stddev	.00050
%RSD	289.38
#1	-.00018
#2	.00053
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3503.8	2117.5	15866.	3083.4
Stddev	10.8	5.4	39.	9.5
%RSD	.30783	.25518	.24847	.30683
#1	3496.2	2113.7	15894.	3076.7
#2	3511.4	2121.4	15838.	3090.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.967%	87.861%	92.079%	96.811%
Range				

Sample Name: BLANK Acquired: 7/26/2017 13:39:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.02022**	**.00085**	**.00298**	**.00003**
Stddev	.00067	.00219	.00051	.00063	.00004
%RSD	224.67	10.834	59.459	21.055	122.97
#1	.00018	.01867	.00049	.00342	.00000
#2	-.00077	.02177	.00121	.00254	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00295**	**.00088**	**-.0419**	**-.00044**
Stddev	.00008	.00092	.00009	.0064	.00011
%RSD	538.42	31.145	10.273	15.36	25.352
#1	.00008	.00230	.00082	-.0465	-.00036
#2	-.00004	.00359	.00094	-.0374	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00000**	**.00153**	**.01322**	**-.00025**
Stddev	.00011	.00060	.00231	.03561	.00015
%RSD	19.196	13736.	151.10	269.36	60.395
#1	.00050	.00043	-.00010	.03840	-.00036
#2	.00066	-.00042	.00316	-.01196	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:39:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00374**	**-.00002**	**.00047**	**.07313**	**-.00102**
Stddev	.00996	.00002	.00020	.01248	.00010
%RSD	266.50	100.59	41.848	17.063	9.3892
#1	.01078	-.00004	.00033	.08195	-.00109
#2	-.00330	-.00001	.00061	.06430	-.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**-.00897**	**.00145**	**.00173**	**.03056**
Stddev	.00010	.00008	.00229	.00118	.01902
%RSD	11.379	.92591	157.67	67.837	62.247
#1	.00094	-.00891	-.00017	.00257	.01711
#2	.00080	-.00903	.00307	.00090	.04401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**-.00011**	**-.00008**	**-.00368**	**.00043**
Stddev	.00026	.00000	.00005	.00066	.00036
%RSD	15.505	2.8265	56.164	18.044	83.621
#1	.00183	-.00011	-.00012	-.00321	.00069
#2	.00147	-.00011	-.00005	-.00415	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:39:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00055
Stddev	.00038
%RSD	69.356
#1	.00028
#2	.00082
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3502.5	2118.4	15833.	3051.3
Stddev	5.9	5.9	92.	4.3
%RSD	.16862	.27749	.57813	.14236
#1	3498.3	2114.2	15769.	3048.2
#2	3506.7	2122.5	15898.	3054.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.932%	87.894%	91.891%	95.802%
Range				

Sample Name: 121362-f-1-b@100 Acquired: 7/26/2017 13:43:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00839**	**.00082**	**.01053**	F **21.808**
Stddev	.00027	.00854	.00264	.00040	.200
%RSD	214.61	101.80	320.39	3.8376	.91652
#1	.00031	.01444	.00269	.01024	21.666
#2	-.00006	.00235	-.00104	.01082	21.949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**70.684**	**-.00020**	**-.0303**	**-.00035**
Stddev	.00001	.216	.00010	.0206	.00014
%RSD	67.425	.30563	51.587	68.03	40.553
#1	.00001	70.531	-.00013	-.0448	-.00045
#2	.00003	70.836	-.00027	-.0157	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**-.00053**	**.22134**	**.71752**	**.45355**
Stddev	.00086	.00070	.00233	.06224	.00197
%RSD	114.98	131.71	1.0517	8.6749	.43458
#1	.00135	-.00103	.22298	.67351	.45216
#2	.00014	-.00004	.21969	.76154	.45495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-b@100 Acquired: 7/26/2017 13:43:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4083**	**.04082**	**-.00004**	**123.37**	**-.00024**
Stddev	.0075	.00002	.00002	.07	.00056
%RSD	.16977	.05936	43.091	.05944	231.40
#1	4.4030	.04080	-.00002	123.32	.00015
#2	4.4136	.04084	-.00005	123.42	-.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00023**	**.00066**	**.00011**	**.00261**
Stddev	.00069	.00098	.00184	.00178	.00056
%RSD	269.27	421.90	277.65	1593.2	21.477
#1	.00074	-.00046	-.00064	.00137	.00301
#2	-.00023	.00092	.00196	-.00114	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	F **21.745**	**.00010**	**-.00009**	**-.00015**
Stddev	.00020	.091	.00040	.00116	.00039
%RSD	87.694	.41760	402.15	1309.0	255.54
#1	-.00009	21.680	.00039	-.00091	.00012
#2	-.00037	21.809	-.00019	.00073	-.00042
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 121362-f-1-b@100 Acquired: 7/26/2017 13:43:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00155
Stddev	.00070
%RSD	45.194
#1	.00205
#2	.00105
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3255.9	2308.3	16445.	3109.1
Stddev	7.4	7.9	31.	9.2
%RSD	.22655	.34031	.18857	.29572
#1	3261.2	2313.9	16467.	3115.6
#2	3250.7	2302.8	16423.	3102.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.320%	95.776%	95.442%	97.617%
Range				

Sample Name: 121362-f-1-bSD@500 Acquired: 7/26/2017 13:46:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.03465**	**-.00220**	**.00621**	**4.4640**
Stddev	.00037	.02076	.00159	.00029	.0432
%RSD	49.026	59.923	72.323	4.6480	.96791
#1	-.00101	.01997	-.00108	.00641	4.4946
#2	-.00049	.04933	-.00333	.00600	4.4335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**14.368**	**-.00003**	**-.0193**	**.00006**
Stddev	.00012	.143	.00020	.0207	.00002
%RSD	200.78	.99425	690.79	107.5	28.440
#1	.00015	14.469	-.00017	-.0339	.00007
#2	-.00003	14.267	.00011	-.0046	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00033**	**.05165**	**.15530**	**.09083**
Stddev	.00017	.00053	.00154	.02959	.00033
%RSD	50.757	158.95	2.9903	19.056	.36494
#1	-.00046	-.00071	.05055	.17623	.09106
#2	-.00022	.00004	.05274	.13438	.09059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bSD@500 Acquired: 7/26/2017 13:46:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91235**	**.00854**	**.00000**	**24.846**	**-.00019**
Stddev	.00542	.00013	.00009	.175	.00010
%RSD	.59386	1.5223	21576.	.70512	54.653
#1	.90852	.00845	-.00006	24.970	-.00026
#2	.91618	.00864	.00007	24.723	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00189**	**-.00005**	**.00030**	**.01276**
Stddev	.00002	.00204	.00030	.00201	.00775
%RSD	77.274	108.07	618.74	661.84	60.691
#1	-.00001	-.00045	.00017	.00173	.01824
#2	-.00003	-.00333	-.00026	-.00112	.00729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**4.5861**	**.00032**	**.00030**	**-.00003**
Stddev	.00031	.0159	.00039	.00096	.00077
%RSD	225.31	.34620	121.69	319.34	3059.0
#1	-.00008	4.5973	.00060	.00098	-.00057
#2	.00035	4.5749	.00004	-.00038	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bSD@500 Acquired: 7/26/2017 13:46:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00122
Stddev	.00002
%RSD	2.0420
#1	.00124
#2	.00120
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3553.1	2380.8	16848.	3168.3
Stddev	7.8	3.9	16.	48.6
%RSD	.22074	.16551	.09756	1.5351
#1	3558.6	2383.6	16859.	3133.9
#2	3547.5	2378.0	16836.	3202.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.288%	98.782%	97.778%	99.478%
Range				

Sample Name: 121362-f-1-bPDS@100 Acquired: 7/26/2017 13:50:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93126**	**.06333**	**1.0093**	**.01508**	F **22.857**
Stddev	.00659	.00593	.0012	.00021	.166
%RSD	.70714	9.3675	.11798	1.3841	.72440
#1	.93592	.06752	1.0101	.01493	22.974
#2	.92661	.05913	1.0084	.01523	22.740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0195**	**69.763**	**1.0342**	**-.0520**	**.98298**
Stddev	.0012	.206	.0002	.0152	.00076
%RSD	.12211	.29595	.01875	29.23	.07723
#1	1.0204	69.909	1.0341	-.0412	.98245
#2	1.0186	69.617	1.0344	-.0627	.98352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99806**	**1.0170**	**.21297**	**.73471**	**.45220**
Stddev	.00876	.0005	.00008	.05855	.00072
%RSD	.87794	.05085	.03603	7.9691	.15972
#1	1.0043	1.0166	.21302	.69330	.45271
#2	.99187	1.0173	.21292	.77611	.45169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bPDS@100 Acquired: 7/26/2017 13:50:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3734**	**1.0362**	**.99066**	**122.76**	**1.0059**
Stddev	.0383	.0060	.00239	.31	.0015
%RSD	.87641	.58045	.24107	.25292	.15281
#1	4.4005	1.0405	.99235	122.98	1.0048
#2	4.3463	1.0320	.98897	122.54	1.0070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0217**	**.00115**	**1.0011**	**1.0048**	**.02330**
Stddev	.0034	.00035	.0003	.0032	.00325
%RSD	.33025	30.134	.03179	.31378	13.945
#1	1.0194	.00091	1.0013	1.0070	.02560
#2	1.0241	.00140	1.0008	1.0026	.02100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	F **21.678**	**.00017**	**.99624**	**.99587**
Stddev	.00034	.064	.00011	.00460	.00559
%RSD	8643.0	.29298	63.477	.46209	.56099
#1	-.00024	21.722	.00009	.99950	.99982
#2	.00023	21.633	.00024	.99299	.99192
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 121362-f-1-bPDS@100 Acquired: 7/26/2017 13:50:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0218**
Stddev	.0091
%RSD	.88817
#1	1.0282
#2	1.0154
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3224.3**	**2287.8**	**16291.**	**3109.6**
Stddev	9.0	6.3	54.	15.5
%RSD	.27943	.27691	.33249	.49940
#1	3217.9	2283.3	16252.	3098.7
#2	3230.6	2292.3	16329.	3120.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.470%	94.924%	94.545%	97.636%
Range				

Sample Name: 121362-f-1-c ms@100 Acquired: 7/26/2017 13:53:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00176	.03727	.00226	.00938	F 21.656
Stddev	.00105	.00920	.00081	.00012	.128
%RSD	59.614	24.687	35.688	1.2365	.59288
#1	.00250	.03077	.00284	.00947	21.747
#2	.00102	.04378	.00169	.00930	21.565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00207	68.209	.00188	-.0451	.00174
Stddev	.00006	.319	.00045	.0334	.00009
%RSD	2.7040	.46717	23.689	74.10	5.2401
#1	.00211	68.434	.00219	-.0215	.00180
#2	.00203	67.984	.00156	-.0687	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00116	.00230	.20906	.70875	.44369
Stddev	.00021	.00040	.00165	.00729	.00269
%RSD	17.821	17.379	.79019	1.0288	.60614
#1	.00101	.00202	.20790	.71390	.44559
#2	.00131	.00258	.21023	.70359	.44178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-c ms@100 Acquired: 7/26/2017 13:53:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2998**	**.04117**	**.00205**	**119.32**	**.00194**
Stddev	.0071	.00026	.00012	.51	.00037
%RSD	.16613	.62848	5.7227	.42932	19.317
#1	4.2947	.04098	.00213	119.68	.00167
#2	4.3048	.04135	.00197	118.96	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00240**	**-.00216**	**.00326**	**.00376**	**.00197**
Stddev	.00087	.00146	.00125	.00207	.01454
%RSD	36.249	67.405	38.437	54.953	739.65
#1	.00301	-.00113	.00238	.00230	-.00832
#2	.00178	-.00319	.00415	.00522	.01225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	F **21.163**	**-.00036**	**.00264**	**.00219**
Stddev	.00042	.140	.00085	.00050	.00019
%RSD	103.22	.66302	235.11	19.043	8.6689
#1	-.00070	21.262	.00024	.00299	.00206
#2	-.00011	21.064	-.00096	.00228	.00232
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 121362-f-1-c ms@100 Acquired: 7/26/2017 13:53:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00422**
Stddev	.00017
%RSD	4.0119
#1	.00434
#2	.00410
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3231.7**	**2283.9**	**16256.**	**3124.8**
Stddev	1.1	2.0	26.	8.3
%RSD	.03510	.08898	.15977	.26512
#1	3230.9	2285.4	16274.	3118.9
#2	3232.5	2282.5	16237.	3130.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.668%	94.764%	94.342%	98.110%
Range				

Sample Name: 121362-f-1-d msd@100 Acquired: 7/26/2017 13:57:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.01990**	**.00163**	**.00974**	F **20.377**
Stddev	.00074	.00151	.00020	.00040	.065
%RSD	42.425	7.5730	12.169	4.0821	.31965
#1	.00225	.02097	.00149	.00945	20.331
#2	.00121	.01884	.00177	.01002	20.423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**68.959**	**.00130**	**-.0200**	**.00190**
Stddev	.00002	.174	.00002	.0623	.00009
%RSD	1.0191	.25300	1.8153	311.2	4.9434
#1	.00212	68.835	.00128	-.0641	.00183
#2	.00209	69.082	.00132	.0240	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.00007**	**.21014**	**.75744**	**.44951**
Stddev	.00033	.00017	.00151	.00119	.00249
%RSD	16.338	245.92	.71653	.15672	.55351
#1	.00225	-.00005	.20907	.75660	.45126
#2	.00179	.00019	.21120	.75828	.44775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-d msd@100 Acquired: 7/26/2017 13:57:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3461**	**.03697**	**.00209**	**111.38**	**.00166**
Stddev	.0165	.00001	.00021	.03	.00021
%RSD	.37970	.01896	9.9829	.02456	12.398
#1	4.3578	.03697	.00224	111.36	.00181
#2	4.3345	.03696	.00194	111.40	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**-.00230**	**.00253**	**.00040**	**.00894**
Stddev	.00047	.00054	.00146	.00077	.01524
%RSD	53.642	23.431	57.809	191.16	170.48
#1	.00120	-.00269	.00150	.00094	.01972
#2	.00054	-.00192	.00356	-.00014	-.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	F **20.972**	**-.00036**	**.00319**	**.00201**
Stddev	.00050	.025	.00049	.00035	.00001
%RSD	162.38	.11751	138.18	11.097	.32117
#1	.00005	20.990	-.00070	.00294	.00200
#2	-.00067	20.955	-.00001	.00344	.00201
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 121362-f-1-d msd@100 Acquired: 7/26/2017 13:57:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00361
Stddev	.00053
%RSD	14.732
#1	.00324
#2	.00399
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3245.0	2287.8	16220.	3100.2
Stddev	1.6	.4	11.	9.9
%RSD	.05026	.01933	.06764	.31789
#1	3243.9	2288.1	16212.	3093.2
#2	3246.2	2287.4	16228.	3107.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.026%	94.923%	94.136%	97.339%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:01:07 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49947**	**25.287**	**.49534**	**.51069**	**.50967**
Stddev	.00050	.147	.00132	.00096	.00076
%RSD	.10037	.57969	.26713	.18868	.14839
#1	.49912	25.183	.49627	.51137	.50913
#2	.49983	25.390	.49440	.51001	.51020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51748**	**25.186**	**.50894**	**-.0188**	**.49915**
Stddev	.00305	.139	.00042	.0088	.00033
%RSD	.58888	.55053	.08341	46.60	.06614
#1	.51533	25.088	.50864	-.0250	.49891
#2	.51964	25.284	.50924	-.0126	.49938
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50933**	**.52596**	**24.690**	**25.898**	**.50714**
Stddev	.00093	.00111	.180	.252	.00266
%RSD	.18324	.21125	.73089	.97327	.52444
#1	.50867	.52675	24.562	25.720	.50526
#2	.50999	.52518	24.817	26.077	.50902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:01:07 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.648**	**.52662**	**.50478**	**25.437**	**.50712**
Stddev	.038	.00075	.00016	.215	.00021
%RSD	.14691	.14272	.03258	.84367	.04100
#1	25.622	.52609	.50466	25.285	.50727
#2	25.675	.52715	.50489	25.589	.50698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50341**	**25.017**	**.50588**	**.50183**	**24.462**
Stddev	.00037	.024	.00010	.00320	.159
%RSD	.07254	.09554	.01896	.63839	.65151
#1	.50367	25.034	.50581	.50410	24.349
#2	.50316	25.000	.50595	.49957	24.574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51068**	**.50052**	**.50497**	**.50163**	**.50607**
Stddev	.00046	.00216	.00176	.00126	.00210
%RSD	.09042	.43151	.34925	.25186	.41564
#1	.51036	.49900	.50373	.50253	.50458
#2	.51101	.50205	.50622	.50074	.50756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:01:07 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51014**
Stddev	.00070
%RSD	.13813
#1	.50964
#2	.51063
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3389.4**	**2368.8**	**16553.**	**3145.7**
Stddev	1.8	1.2	24.	18.4
%RSD	.05345	.05251	.14202	.58598
#1	3390.7	2369.7	16570.	3158.7
#2	3388.1	2367.9	16537.	3132.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:04:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.01792**	**.00050**	**.00080**	**.00068**
Stddev	.00089	.03321	.00047	.00021	.00001
%RSD	825.70	185.37	94.258	26.733	1.0703
#1	.00052	-.04140	.00017	.00095	.00067
#2	-.00074	.00557	.00083	.00065	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00327**	**-.00004**	**-.0136**	**-.00012**
Stddev	.00007	.00081	.00003	.0290	.00011
%RSD	319.73	24.689	72.109	213.0	96.729
#1	.00003	.00384	-.00002	.0069	-.00004
#2	-.00007	.00270	-.00006	-.0341	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00080**	**-.00035**	**.01119**	**-.00148**
Stddev	.00056	.00038	.00371	.03713	.00103
%RSD	296.24	47.959	1066.1	331.87	69.544
#1	-.00059	-.00053	-.00297	.03744	-.00075
#2	.00021	-.00107	.00227	-.01507	-.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:04:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00698**	**.00004**	**.00003**	**.04707**	**-.00012**
Stddev	.00145	.00010	.00007	.00327	.00014
%RSD	20.825	247.54	204.87	6.9523	118.33
#1	.00595	-.00003	.00008	.04938	-.00002
#2	.00800	.00011	-.00001	.04475	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**-.00100**	**.00134**	**.00104**	**.00905**
Stddev	.00106	.00070	.00020	.00100	.00609
%RSD	123.90	70.183	14.770	95.429	67.251
#1	.00011	-.00150	.00120	.00175	.00475
#2	.00161	-.00051	.00148	.00034	.01336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00051**	**.00028**	**.00118**	**.00009**
Stddev	.00010	.00001	.00032	.00076	.00063
%RSD	68.584	2.2666	113.36	64.142	672.81
#1	-.00008	.00050	.00006	.00065	-.00035
#2	-.00022	.00052	.00050	.00172	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:04:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00030**
Stddev	.00096
%RSD	315.92
#1	-.00037
#2	.00098
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3716.2**	**2392.4**	**17053.**	**3138.0**
Stddev	7.0	10.3	36.	9.9
%RSD	.18792	.43085	.21343	.31563
#1	3711.2	2385.1	17028.	3145.0
#2	3721.1	2399.7	17079.	3131.0

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:07:50 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00610**	**.22877**	**.01602**	**.02099**	F **.00361**
Stddev	.00048	.00319	.00141	.00000	.00004
%RSD	7.8095	1.3947	8.8090	.00637	1.0053
#1	.00644	.23103	.01502	.02099	.00358
#2	.00576	.22651	.01701	.02100	.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.00200
Range					50.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.50372**	**.00224**	**-.0540**	**.00381**
Stddev	.00001	.00538	.00002	.0149	.00006
%RSD	.55070	1.0683	.92471	27.55	1.6151
#1	.00209	.50752	.00225	-.0645	.00385
#2	.00208	.49991	.00223	-.0435	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**.01059**	**.05479**	**.50326**	**.03042**
Stddev	.00061	.00038	.00085	.02018	.00154
%RSD	14.521	3.5786	1.5523	4.0100	5.0595
#1	.00466	.01085	.05539	.51753	.03150
#2	.00379	.01032	.05419	.48899	.02933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:07:50 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20910**	**.00315**	**.01006**	**1.0826**	**.00974**
Stddev	.00141	.00002	.00008	.0126	.00050
%RSD	.67467	.50617	.82850	1.1679	5.1833
#1	.21010	.00314	.01012	1.0915	.00938
#2	.20810	.00317	.01000	1.0736	.01010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00939**	**.19452**	**.02133**	**.02238**	**.50325**
Stddev	.00086	.00048	.00052	.00069	.01618
%RSD	9.1728	.24536	2.4430	3.0625	3.2157
#1	.01000	.19419	.02097	.02189	.51470
#2	.00878	.19486	.02170	.02286	.49181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**.00610**	**.00484**	**.01988**	**.00513**
Stddev	.00016	.00004	.00002	.00222	.00055
%RSD	1.7330	.65349	.48060	11.170	10.670
#1	.00952	.00607	.00482	.02145	.00475
#2	.00929	.00613	.00486	.01831	.00552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:07:50 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01145
Stddev	.00009
%RSD	.75547
#1	.01139
#2	.01151
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3732.9	2416.9	17213.	3195.1
Stddev	5.7	4.2	42.	24.4
%RSD	.15298	.17577	.24578	.76418
#1	3737.0	2419.9	17243.	3177.8
#2	3728.9	2413.9	17183.	3212.3

Sample Name: 121362-f-1-b@10 Acquired: 7/26/2017 14:11:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00748**	**.00094**	**.09086**	^ *****
Stddev	.00032	.00419	.00022	.00079	-----
%RSD	55.418	55.987	23.107	.87362	-----
#1	.00035	.00452	.00079	.09030	^ -----
#2	.00081	.01044	.00110	.09142	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**671.08**	**-.00194**	**.0186**	**-.00180**
Stddev	.00005	6.34	.00003	.0045	.00002
%RSD	41.741	.94461	1.3159	24.04	1.3097
#1	-.00017	675.57	-.00196	.0154	-.00178
#2	-.00009	666.60	-.00192	.0217	-.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.00649**	**2.0482**	**8.0483**	**4.7731**
Stddev	.00020	.00045	.0087	.0085	.0087
%RSD	29.033	7.0057	.42409	.10533	.18226
#1	.00085	-.00681	2.0543	8.0423	4.7793
#2	.00056	-.00616	2.0421	8.0543	4.7670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-b@10 Acquired: 7/26/2017 14:11:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.092**	**.39052**	**-.00010**	**1282.1**	**-.00102**
Stddev	.034	.00120	.00046	6.1	.00013
%RSD	.08134	.30726	449.18	.47725	12.607
#1	42.116	.38967	-.00043	1286.5	-.00111
#2	42.068	.39137	.00022	1277.8	-.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00247**	**.00033**	**.00010**	**-.00394**	**.06982**
Stddev	.00480	.00264	.00391	.00172	.00820
%RSD	194.47	806.79	3987.1	43.687	11.744
#1	-.00586	.00219	-.00267	-.00516	.07561
#2	.00092	-.00154	.00286	-.00272	.06402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**^ *******	**-.00100**	**.00090**	**-.00040**
Stddev	.00027	-----	.00024	.00139	.00070
%RSD	52.045	-----	23.967	155.61	172.54
#1	-.00071	^ -----	-.00083	-.00009	.00009
#2	-.00033	^ -----	-.00117	.00188	-.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-b@10 Acquired: 7/26/2017 14:11:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03291
Stddev	.00019
%RSD	.57539
#1	.03278
#2	.03305
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2395.8	1921.1	14056.	2920.0
Stddev	1.8	.7	10.	13.5
%RSD	.07658	.03708	.07021	.46063
#1	2394.5	1921.6	14049.	2910.5
#2	2397.1	1920.6	14063.	2929.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.253%	79.711%	81.576%	91.682%
Range				

Sample Name: 121362-f-1-bSD@50 Acquired: 7/26/2017 14:15:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00475**	**.00141**	**.01880**	F **42.895**
Stddev	.00095	.00027	.00410	.00018	.187
%RSD	301.82	5.6749	290.41	.93608	.43618
#1	-.00098	.00494	-.00149	.01892	43.028
#2	.00036	.00456	.00431	.01867	42.763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**139.63**	**-.00045**	**-.0296**	**-.00061**
Stddev	.00007	.39	.00004	.0046	.00015
%RSD	325.26	.28086	8.7643	15.36	24.164
#1	.00003	139.36	-.00042	-.0264	-.00071
#2	-.00007	139.91	-.00048	-.0329	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**-.00183**	**.41640**	**1.5689**	**.91565**
Stddev	.00003	.00113	.00366	.0341	.00565
%RSD	2.3856	62.149	.87900	2.1742	.61682
#1	.00116	-.00102	.41898	1.5930	.91166
#2	.00120	-.00263	.41381	1.5448	.91964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bSD@50 Acquired: 7/26/2017 14:15:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6858**	**.08034**	**-.00002**	**245.99**	**-.00055**
Stddev	.0095	.00025	.00032	.36	.00021
%RSD	.10983	.30664	1599.9	.14782	39.213
#1	8.6925	.08017	.00021	246.25	-.00070
#2	8.6790	.08051	-.00025	245.73	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00283**	**-.00007**	**.00342**	**.02193**
Stddev	.00058	.00151	.00069	.00093	.01158
%RSD	298.01	53.436	925.87	27.226	52.788
#1	.00061	-.00389	-.00056	.00276	.03011
#2	-.00022	-.00176	.00041	.00408	.01374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	F **41.265**	**-.00026**	**.00109**	**.00035**
Stddev	.00009	.103	.00004	.00052	.00015
%RSD	62.195	.24942	16.185	48.049	41.804
#1	-.00008	41.338	-.00029	.00146	.00046
#2	-.00020	41.192	-.00023	.00072	.00025
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 121362-f-1-bSD@50 Acquired: 7/26/2017 14:15:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00776
Stddev	.00004
%RSD	.50985
#1	.00779
#2	.00773
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3002.9	2187.6	15517.	3056.3
Stddev	4.1	2.4	25.	2.3
%RSD	.13570	.10822	.16424	.07381
#1	3000.1	2189.3	15535.	3054.7
#2	3005.8	2185.9	15499.	3057.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.535%	90.767%	90.052%	95.960%
Range				

Sample Name: 121362-f-1-bPDS@10 Acquired: 7/26/2017 14:18:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0476**	**.02415**	**1.1290**	**.08966**	^ *****
Stddev	.0019	.03831	.0074	.00033	-----
%RSD	.18460	158.63	.65151	.37142	-----
#1	1.0462	.05125	1.1342	.08943	^ -----
#2	1.0490	-.00294	1.1238	.08990	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99110**	**672.87**	**1.1479**	**.0284**	**1.0755**
Stddev	.00450	4.90	.0005	.0144	.0008
%RSD	.45366	.72756	.04092	50.72	.07809
#1	.99428	676.33	1.1476	.0386	1.0749
#2	.98792	669.41	1.1482	.0182	1.0761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97671**	**1.0662**	**2.0314**	**7.9937**	**4.7577**
Stddev	.00130	.0063	.0006	.0086	.0257
%RSD	.13320	.58748	.03193	.10732	.54098
#1	.97763	1.0706	2.0319	7.9876	4.7759
#2	.97579	1.0618	2.0310	7.9998	4.7395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bPDS@10 Acquired: 7/26/2017 14:18:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.887**	**1.3691**	**1.0008**	**1269.9**	**1.0903**
Stddev	.023	.0031	.0013	6.5	.0021
%RSD	.05482	.22906	.13017	.51194	.19519
#1	41.903	1.3713	1.0018	1274.5	1.0888
#2	41.871	1.3669	.99993	1265.3	1.0918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1109**	**.00238**	**1.1087**	**1.1192**	**.08522**
Stddev	.0015	.00034	.0012	.0081	.00185
%RSD	.13668	14.080	.10558	.72131	2.1690
#1	1.1120	.00214	1.1079	1.1249	.08653
#2	1.1099	.00262	1.1096	1.1135	.08391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	^ *****	**-.00150**	**1.0024**	**.99865**
Stddev	.00070	-----	.00039	.0007	.00015
%RSD	368.37	-----	26.188	.06803	.01541
#1	.00068	^ -----	-.00122	1.0029	.99876
#2	-.00030	^ -----	-.00178	1.0019	.99854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bPDS@10 Acquired: 7/26/2017 14:18:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0171
Stddev	.0013
%RSD	.12737
#1	1.0180
#2	1.0161
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2389.6	1917.8	14045.	2918.0
Stddev	.5	.9	79.	10.1
%RSD	.01940	.04668	.56062	.34633
#1	2389.9	1917.1	13990.	2910.8
#2	2389.2	1918.4	14101.	2925.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.085%	79.571%	81.514%	91.618%
Range				

Sample Name: 121362-f-1-c ms@10 Acquired: 7/26/2017 14:22:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02167	.03330	.02128	.08969	^ *****
Stddev	.00200	.00558	.00336	.00040	-----
%RSD	9.2209	16.751	15.808	.45094	-----
#1	.02308	.02936	.02366	.08998	^ -----
#2	.02026	.03725	.01890	.08941	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01977	667.73	.01992	-.0445	.01970
Stddev	.00005	.28	.00005	.0384	.00004
%RSD	.27652	.04262	.23001	86.38	.22251
#1	.01973	667.53	.01995	-.0173	.01973
#2	.01980	667.93	.01989	-.0716	.01967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02027	.01598	2.0353	8.0050	4.7413
Stddev	.00008	.00061	.0126	.0750	.0012
%RSD	.38667	3.8114	.61926	.93738	.02622
#1	.02022	.01641	2.0264	7.9519	4.7422
#2	.02033	.01555	2.0442	8.0580	4.7404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-c ms@10 Acquired: 7/26/2017 14:22:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.829**	**.40150**	**.02033**	**1250.4**	**.02052**
Stddev	.061	.00081	.00002	2.5	.00025
%RSD	.14539	.20143	.11629	.20308	1.2280
#1	41.872	.40208	.02031	1248.6	.02070
#2	41.786	.40093	.02034	1252.2	.02034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01997**	**.00147**	**.02143**	**.01634**	**.06644**
Stddev	.00013	.00074	.00013	.00448	.01119
%RSD	.63491	50.691	.62055	27.406	16.839
#1	.01988	.00094	.02134	.01317	.07435
#2	.02006	.00199	.02153	.01951	.05853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**^ *******	**-.00115**	**.01816**	**.01931**
Stddev	.00005	-----	.00065	.00097	.00030
%RSD	7.8002	-----	56.715	5.3217	1.5296
#1	.00067	^ -----	-.00069	.01748	.01952
#2	.00060	^ -----	-.00161	.01884	.01910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-c ms@10 Acquired: 7/26/2017 14:22:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02613
Stddev	.00028
%RSD	1.0691
#1	.02632
#2	.02593
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2390.4	1915.8	14027.	2916.1
Stddev	2.6	.9	19.	20.6
%RSD	.10925	.04643	.13796	.70732
#1	2392.3	1916.5	14013.	2930.7
#2	2388.6	1915.2	14041.	2901.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.107%	79.491%	81.407%	91.560%
Range				

Sample Name: 121362-f-1-d msd@10 Acquired: 7/26/2017 14:25:59 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01556**	**.03134**	**.02133**	**.08945**	^ *****
Stddev	.00044	.01667	.00233	.00039	-----
%RSD	2.8376	53.187	10.909	.43545	-----
#1	.01525	.04312	.01968	.08918	^ -----
#2	.01588	.01955	.02297	.08973	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01973**	**656.13**	**.01439**	**.0212**	**.01939**
Stddev	.00010	9.41	.00021	.0224	.00008
%RSD	.49639	1.4346	1.4296	105.5	.42187
#1	.01980	662.79	.01454	.0054	.01945
#2	.01966	649.48	.01425	.0371	.01933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01979**	**.01466**	**2.0084**	**7.8744**	**4.7059**
Stddev	.00121	.00127	.0232	.0621	.0041
%RSD	6.1141	8.6333	1.1543	.78892	.08641
#1	.01894	.01555	2.0248	7.9184	4.7087
#2	.02065	.01376	1.9920	7.8305	4.7030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-d msd@10 Acquired: 7/26/2017 14:25:59 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.552**	**.35354**	**.02013**	**1129.9**	**.02057**
Stddev	.119	.00075	.00031	3.9	.00010
%RSD	.28619	.21175	1.5534	.34562	.50581
#1	41.468	.35301	.02035	1132.6	.02050
#2	41.636	.35407	.01990	1127.1	.02064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01297**	**-.00441**	**.01919**	**.01829**	**.08651**
Stddev	.00152	.00173	.00114	.00041	.00496
%RSD	11.720	39.227	5.9643	2.2287	5.7365
#1	.01405	-.00563	.01838	.01800	.08300
#2	.01190	-.00318	.02000	.01858	.09002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**^ *******	**-.00036**	**.01627**	**.01988**
Stddev	.00012	-----	.00023	.00165	.00023
%RSD	16.428	-----	62.978	10.165	1.1656
#1	.00064	^ -----	-.00052	.01510	.01972
#2	.00081	^ -----	-.00020	.01744	.02005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-d msd@10 Acquired: 7/26/2017 14:25:59 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02415**
Stddev	.00060
%RSD	2.4809
#1	.02457
#2	.02372
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2416.0**	**1925.9**	**14118.**	**2946.8**
Stddev	2.2	4.0	61.	32.8
%RSD	.09006	.20655	.43110	1.1122
#1	2417.5	1928.8	14161.	2923.7
#2	2414.4	1923.1	14075.	2970.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.792%	79.911%	81.936%	92.524%
Range				

Sample Name: BLANK Acquired: 7/26/2017 14:29:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00598**	**-.00250**	**.00219**	**.00238**
Stddev	.00050	.02571	.00071	.00009	.00025
%RSD	273.76	430.16	28.281	3.9020	10.391
#1	.00054	.02415	-.00200	.00212	.00256
#2	-.00017	-.01220	-.00300	.00225	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00816**	**.00073**	**-.0267**	**-.00066**
Stddev	.00001	.01199	.00006	.0112	.00003
%RSD	39.995	146.95	8.7568	41.89	4.0110
#1	.00001	.01664	.00078	-.0188	-.00065
#2	.00002	-.00032	.00069	-.0346	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00012**	**.00199**	**.03387**	**-.00097**
Stddev	.00025	.00116	.00044	.02330	.00112
%RSD	31.109	1003.8	22.158	68.786	116.10
#1	.00062	.00094	.00168	.01740	-.00017
#2	.00097	-.00070	.00231	.05034	-.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 14:29:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**-.00001**	**.00046**	**.31321**	**-.00111**
Stddev	.00623	.00001	.00003	.02542	.00011
%RSD	143.00	82.251	6.4066	8.1163	10.141
#1	.00876	-.00001	.00048	.33118	-.00119
#2	-.00005	-.00000	.00044	.29523	-.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**-.00941**	**.00391**	**.00746**	**.02738**
Stddev	.00069	.00088	.00026	.00118	.00960
%RSD	61.025	9.3716	6.5881	15.825	35.068
#1	.00162	-.00879	.00409	.00663	.02059
#2	.00064	-.01004	.00373	.00829	.03417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**.00369**	**-.00005**	**-.00395**	**.00023**
Stddev	.00001	.00348	.00024	.00043	.00023
%RSD	.33821	94.291	500.45	10.776	98.124
#1	.00159	.00616	-.00021	-.00425	.00039
#2	.00160	.00123	.00012	-.00365	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 14:29:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00075**
Stddev	.00039
%RSD	51.871
#1	.00048
#2	.00103
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3459.7**	**2083.9**	**15850.**	**3067.7**
Stddev	.1	3.5	22.	5.4
%RSD	.00247	.16902	.13594	.17539
#1	3459.8	2081.4	15834.	3063.9
#2	3459.7	2086.4	15865.	3071.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.784%	86.463%	91.985%	96.318%
Range				

Sample Name: 480-121365-b-1-b Acquired: 7/26/2017 14:33:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.03159**	**1.0522**	**.35720**	**.04881**
Stddev	.00077	.00313	.0001	.00012	.00040
%RSD	89.842	9.8990	.01445	.03245	.82541
#1	-.00140	.02938	1.0523	.35712	.04910
#2	-.00031	.03380	1.0521	.35728	.04853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**5.5019**	**-.00050**	**-.0212**	**.00012**
Stddev	.00001	.0110	.00009	.0421	.00004
%RSD	29.394	.20055	17.443	198.3	32.842
#1	-.00005	5.5097	-.00044	-.0510	.00009
#2	-.00004	5.4941	-.00056	.0085	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00140**	**2.4981**	**112.84**	**.01643**
Stddev	.00018	.00036	.0069	.75	.00009
%RSD	32.056	25.798	.27655	.66818	.55688
#1	.00043	.00166	2.5029	113.38	.01650
#2	.00068	.00115	2.4932	112.31	.01637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-b-1-b Acquired: 7/26/2017 14:33:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.58070**	**.20032**	**.01185**	**25.681**	**.03902**
Stddev	.00863	.00109	.00003	.144	.00014
%RSD	1.4858	.54595	.26301	.56222	.34732
#1	.58680	.20109	.01182	25.783	.03912
#2	.57460	.19955	.01187	25.579	.03893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**14.696**	**.00116**	**.00522**	**.57964**
Stddev	.00047	.012	.00010	.00092	.00751
%RSD	49.921	.08039	8.9646	17.664	1.2955
#1	.00061	14.688	.00123	.00456	.57433
#2	.00127	14.705	.00108	.00587	.58495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.07036**	**.00045**	**.00035**	**-.00003**
Stddev	.00028	.00102	.00015	.00010	.00006
%RSD	210.17	1.4542	32.672	29.601	185.70
#1	-.00033	.07108	.00056	.00042	-.00007
#2	.00006	.06963	.00035	.00028	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-b-1-b Acquired: 7/26/2017 14:33:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00992
Stddev	.00013
%RSD	1.3568
#1	.01001
#2	.00982
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3488.7	2390.0	17099.	3255.9
Stddev	7.6	5.1	40.	17.2
%RSD	.21643	.21163	.23168	.52907
#1	3494.0	2393.6	17127.	3243.7
#2	3483.4	2386.5	17071.	3268.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.561%	99.167%	99.233%	102.23%
Range				

Sample Name: 480-121376-e-1-b@100 Acquired: 7/26/2017 14:36:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.02111**	**-.00213**	**.01021**	F **22.460**
Stddev	.00036	.02401	.00008	.00009	.142
%RSD	65.335	113.71	3.9630	.86033	.63223
#1	-.00080	.00414	-.00219	.01015	22.560
#2	-.00029	.03809	-.00207	.01027	22.360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**40.801**	**-.00016**	**-.0214**	**-.00016**
Stddev	.00001	.001	.00006	.0145	.00010
%RSD	13.156	.00166	36.833	67.77	60.676
#1	-.00006	40.802	-.00012	-.0111	-.00022
#2	-.00007	40.801	-.00020	-.0316	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00024**	**.21264**	**.51142**	**.38702**
Stddev	.00007	.00043	.00036	.00666	.00100
%RSD	35.096	175.48	.17092	1.3013	.25886
#1	.00025	-.00055	.21238	.50672	.38773
#2	.00015	.00006	.21289	.51613	.38631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121376-e-1-b@100 Acquired: 7/26/2017 14:36:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3776**	**.02317**	**-.00001**	**88.380**	**-.00011**
Stddev	.0188	.00015	.00020	.273	.00016
%RSD	.78914	.66885	1777.3	.30902	152.10
#1	2.3644	.02306	-.00015	88.573	-.00022
#2	2.3909	.02328	.00013	88.187	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00529**	**-.00006**	**.00317**	**.01056**
Stddev	.00143	.00023	.00016	.00083	.00346
%RSD	254.35	4.2749	281.01	26.036	32.720
#1	.00157	.00545	-.00017	.00259	.01301
#2	-.00045	.00513	.00006	.00376	.00812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	F **15.496**	**-.00033**	**-.00052**	**-.00005**
Stddev	.00027	.111	.00065	.00072	.00045
%RSD	954.71	.71877	197.96	139.13	829.47
#1	-.00022	15.417	.00013	-.00103	.00026
#2	.00016	15.575	-.00079	-.00001	-.00037
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121376-e-1-b@100 Acquired: 7/26/2017 14:36:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00121
Stddev	.00018
%RSD	14.823
#1	.00133
#2	.00108
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3302.7	2300.3	16280.	3104.2
Stddev	7.8	4.8	8.	3.2
%RSD	.23550	.20983	.04747	.10274
#1	3297.2	2296.8	16286.	3102.0
#2	3308.2	2303.7	16275.	3106.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.572%	95.442%	94.483%	97.466%
Range				

Sample Name: BLANK Acquired: 7/26/2017 14:40:14 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.02792**	**-.00085**	**.00254**	**.00051**
Stddev	.00019	.00166	.00087	.00033	.00005
%RSD	42.624	5.9565	102.06	13.187	8.9293
#1	-.00059	.02674	-.00024	.00230	.00048
#2	-.00032	.02909	-.00147	.00278	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00125**	**.00087**	**-.0317**	**-.00044**
Stddev	.00007	.00242	.00014	.0032	.00005
%RSD	150.63	193.60	15.629	9.938	10.871
#1	.00010	.00296	.00077	-.0339	-.00047
#2	-.00000	-.00046	.00096	-.0295	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.00040**	**.00086**	**.06734**	**-.00051**
Stddev	.00039	.00112	.00106	.02751	.00246
%RSD	18.943	275.91	122.48	40.847	485.19
#1	.00236	-.00039	.00161	.08679	-.00225
#2	.00180	.00119	.00012	.04789	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 14:40:14 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00389**	**-.00010**	**.00054**	**.11820**	**-.00094**
Stddev	.00393	.00007	.00005	.00954	.00012
%RSD	101.03	68.779	10.064	8.0727	13.190
#1	.00111	-.00014	.00058	.12495	-.00085
#2	.00667	-.00005	.00050	.11145	-.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**-.00765**	**.00414**	**.00288**	**.02227**
Stddev	.00074	.00104	.00128	.00101	.00604
%RSD	44.560	13.560	30.879	35.081	27.103
#1	.00218	-.00691	.00504	.00217	.02654
#2	.00113	-.00838	.00323	.00359	.01800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**.00003**	**.00041**	**-.00422**	**.00030**
Stddev	.00009	.00001	.00026	.00024	.00039
%RSD	5.2979	39.373	64.734	5.6421	131.26
#1	.00169	.00002	.00060	-.00438	.00002
#2	.00182	.00003	.00022	-.00405	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 14:40:14 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00037**
Stddev	.00028
%RSD	76.077
#1	-.00017
#2	-.00057
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3468.5**	**2091.7**	**15844.**	**3060.6**
Stddev	4.0	4.6	42.	7.6
%RSD	.11540	.22148	.26396	.24973
#1	3465.7	2088.4	15815.	3066.0
#2	3471.3	2095.0	15874.	3055.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.020%	86.788%	91.953%	96.095%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:43:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49867**	**25.503**	**.49649**	**.50849**	**.51182**
Stddev	.00199	.035	.00096	.00074	.00016
%RSD	.39997	.13847	.19431	.14550	.03112
#1	.49726	25.478	.49718	.50796	.51171
#2	.50008	25.528	.49581	.50901	.51194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51844**	**25.426**	**.50867**	**-.0275**	**.49950**
Stddev	.00134	.021	.00046	.0266	.00011
%RSD	.25835	.08356	.08987	96.63	.02205
#1	.51749	25.411	.50899	-.0087	.49942
#2	.51939	25.441	.50834	-.0463	.49958
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51350**	**.52127**	**24.903**	**25.980**	**.51235**
Stddev	.00388	.00074	.044	.039	.00111
%RSD	.75624	.14109	.17834	.14844	.21665
#1	.51076	.52179	24.872	25.953	.51157
#2	.51625	.52075	24.934	26.007	.51314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:43:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.642**	**.52774**	**.50413**	**25.539**	**.50737**
Stddev	.107	.00145	.00055	.095	.00007
%RSD	.41766	.27564	.10994	.37085	.01407
#1	25.567	.52671	.50374	25.472	.50742
#2	25.718	.52877	.50452	25.606	.50732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50173**	**24.986**	**.50559**	**.49990**	**24.621**
Stddev	.00195	.025	.00000	.00076	.072
%RSD	.38854	.10089	.00006	.15175	.29362
#1	.50035	24.968	.50559	.49936	24.570
#2	.50311	25.003	.50559	.50043	24.672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51182**	**.50480**	**.50575**	**.50126**	**.51082**
Stddev	.00158	.00122	.00076	.00087	.00272
%RSD	.30824	.24161	.14972	.17275	.53325
#1	.51070	.50394	.50521	.50188	.50889
#2	.51293	.50567	.50628	.50065	.51274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:43:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51451**
Stddev	.00035
%RSD	.06814
#1	.51426
#2	.51475
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3414.4**	**2386.8**	**16811.**	**3149.2**
Stddev	11.6	9.5	39.	4.9
%RSD	.33873	.39821	.23326	.15576
#1	3422.6	2393.5	16839.	3152.7
#2	3406.3	2380.1	16783.	3145.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:46:55 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00143**	**.00009**	**.00079**	F **.00303**
Stddev	.00036	.02416	.00094	.00014	.00010
%RSD	414.18	1695.2	1081.0	17.008	3.4560
#1	.00017	.01851	.00075	.00089	.00310
#2	-.00034	-.01566	-.00058	.00070	.00296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					.00200
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.01038**	**.00014**	**-.0141**	**-.00011**
Stddev	.00008	.00248	.00010	.0484	.00003
%RSD	393.79	23.875	73.972	343.9	27.915
#1	-.00008	.00863	.00022	-.0483	-.00009
#2	.00004	.01213	.00007	.0202	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00027**	**.00049**	**.03741**	**-.00153**
Stddev	.00006	.00037	.00101	.01205	.00008
%RSD	212.32	138.56	208.27	32.214	5.2825
#1	-.00001	.00053	.00120	.04594	-.00147
#2	.00006	.00001	-.00023	.02889	-.00159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:46:55 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00304**	**.00005**	**.00002**	**.07803**	**-.00015**
Stddev	.00170	.00001	.00032	.00254	.00007
%RSD	55.954	14.296	1302.2	3.2535	49.991
#1	.00424	.00005	.00025	.07623	-.00010
#2	.00184	.00004	-.00020	.07982	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**-.00048**	**.00038**	**.00397**	**.01554**
Stddev	.00009	.00289	.00294	.00053	.00355
%RSD	6.6910	600.78	778.76	13.276	22.861
#1	.00140	.00156	.00246	.00434	.01806
#2	.00127	-.00253	-.00170	.00360	.01303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00293**	**.00048**	**-.00007**	**.00031**
Stddev	.00033	.00012	.00023	.00095	.00009
%RSD	284.89	4.1228	48.136	1269.3	29.707
#1	.00012	.00301	.00031	.00060	.00024
#2	-.00035	.00284	.00064	-.00075	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:46:55 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00063
Stddev	.00037
%RSD	58.028
#1	.00037
#2	.00089
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3717.2	2395.6	17060.	3158.9
Stddev	8.2	7.5	31.	16.5
%RSD	.22113	.31192	.17982	.52116
#1	3723.0	2400.8	17039.	3147.2
#2	3711.4	2390.3	17082.	3170.5

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:50:24 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00529**	**.21943**	**.01508**	**.02068**	F **.00373**
Stddev	.00015	.00153	.00269	.00025	.00007
%RSD	2.8916	.69785	17.869	1.2014	1.9961
#1	.00518	.21835	.01317	.02085	.00379
#2	.00540	.22051	.01699	.02050	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.00200
Range					50.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00216**	**.50916**	**.00216**	**-.0184**	**.00381**
Stddev	.00002	.00101	.00007	.0049	.00002
%RSD	1.1268	.19776	3.4482	26.76	.42871
#1	.00218	.50987	.00222	-.0149	.00380
#2	.00215	.50845	.00211	-.0219	.00382
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00439**	**.01046**	**.05085**	**.53542**	**.02926**
Stddev	.00040	.00017	.00007	.04176	.00094
%RSD	9.1306	1.6125	.14536	7.7997	3.2123
#1	.00468	.01034	.05080	.56495	.02992
#2	.00411	.01058	.05090	.50589	.02859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:50:24 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21360**	**.00313**	**.01006**	**1.0807**	**.00977**
Stddev	.00075	.00003	.00010	.0230	.00008
%RSD	.34990	1.0419	1.0338	2.1246	.81717
#1	.21307	.00315	.01013	1.0970	.00971
#2	.21412	.00310	.00998	1.0645	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00924**	**.19632**	**.02005**	**.02558**	**.52311**
Stddev	.00129	.00104	.00145	.00069	.02124
%RSD	13.918	.53065	7.2379	2.7036	4.0603
#1	.01015	.19705	.01903	.02606	.50809
#2	.00833	.19558	.02108	.02509	.53813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00898**	W **.00652**	**.00527**	**.02002**	**.00501**
Stddev	.00025	.00003	.00019	.00016	.00013
%RSD	2.7868	.45785	3.6404	.81678	2.5055
#1	.00915	.00654	.00514	.01990	.00510
#2	.00880	.00650	.00541	.02013	.00492
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.00500			
Range		30.000%			

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:50:24 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01033**
Stddev	.00021
%RSD	2.0750
#1	.01048
#2	.01018
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3726.8**	**2413.1**	**17080.**	**3114.6**
Stddev	8.1	3.2	17.	21.2
%RSD	.21690	.13174	.10207	.68089
#1	3732.5	2415.3	17067.	3129.6
#2	3721.1	2410.8	17092.	3099.6

Sample Name: 480-121376-e-1-b@10 Acquired: 7/26/2017 14:53:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.02923**	**.00238**	**.08887**	^ *****
Stddev	.00080	.01661	.00208	.00082	-----
%RSD	145.27	56.844	87.435	.92793	-----
#1	.00001	.04098	.00385	.08946	^ -----
#2	-.00111	.01748	.00091	.08829	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**394.89**	F **-.00233**	**-.0100**	**-.00100**
Stddev	.00004	2.91	.00033	.0232	.00029
%RSD	33.371	.73643	14.054	231.8	28.703
#1	-.00015	392.83	-.00257	-.0264	-.00120
#2	-.00009	396.95	-.00210	.0064	-.00080
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			4.5000		
Low Limit			-.00200		

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00330**	**2.0661**	**4.8719**	**4.0122**
Stddev	.00034	.00189	.0124	.0364	.0027
%RSD	498.52	57.231	.59816	.74690	.06697
#1	-.00017	-.00196	2.0573	4.8462	4.0103
#2	.00031	-.00463	2.0748	4.8976	4.0141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121376-e-1-b@10 Acquired: 7/26/2017 14:53:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.758**	**.22445**	**.00016**	**904.71**	**-.00115**
Stddev	.028	.00002	.00018	1.59	.00005
%RSD	.12107	.00671	114.13	.17594	4.3445
#1	22.739	.22444	.00003	903.58	-.00118
#2	22.778	.22446	.00029	905.83	-.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.06638**	**.00082**	**-.00561**	**.10345**
Stddev	.00024	.00090	.00029	.00071	.00437
%RSD	25.317	1.3513	35.090	12.631	4.2287
#1	-.00111	.06701	.00062	-.00611	.10655
#2	-.00077	.06574	.00102	-.00511	.10036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	^ *****	**-.00102**	**-.00058**	**-.00051**
Stddev	.00034	-----	.00066	.00010	.00073
%RSD	96.834	-----	64.879	16.318	144.07
#1	-.00011	^ -----	-.00149	-.00065	.00001
#2	-.00059	^ -----	-.00055	-.00052	-.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121376-e-1-b@10 Acquired: 7/26/2017 14:53:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00321
Stddev	.00062
%RSD	19.473
#1	.00365
#2	.00277
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2557.8	1990.0	14436.	2962.6
Stddev	7.0	4.3	72.	10.5
%RSD	.27415	.21638	.50158	.35462
#1	2562.7	1993.0	14384.	2970.0
#2	2552.8	1986.9	14487.	2955.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.595%	82.568%	83.779%	93.017%
Range				

Sample Name: 480-121380-c-1-b@10 Acquired: 7/26/2017 14:57:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.02743**	**.00289**	**.01533**	F **67.324**
Stddev	.00014	.03441	.00317	.00004	.388
%RSD	119.57	125.42	109.92	.27206	.57688
#1	-.00002	.00310	.00064	.01536	67.050
#2	-.00021	.05176	.00513	.01530	67.599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**90.652**	**-.00088**	**-.0441**	**-.00036**
Stddev	.00012	.177	.00015	.0222	.00026
%RSD	288.77	.19572	17.185	50.38	71.410
#1	-.00013	90.778	-.00099	-.0598	-.00054
#2	.00004	90.527	-.00078	-.0284	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**-.00104**	**2.2429**	**.92714**	**.74795**
Stddev	.00010	.00070	.0046	.05062	.00086
%RSD	19.222	67.378	.20622	5.4594	.11450
#1	.00045	-.00054	2.2462	.96294	.74855
#2	.00059	-.00153	2.2396	.89135	.74734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121380-c-1-b@10 Acquired: 7/26/2017 14:57:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6762**	**.12223**	**-.00027**	**210.93**	**-.00022**
Stddev	.0248	.00045	.00014	.14	.00019
%RSD	.43707	.36660	52.635	.06685	85.961
#1	5.6938	.12255	-.00037	210.83	-.00036
#2	5.6587	.12191	-.00017	211.03	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00622**	**-.00032**	**.00187**	**.02166**
Stddev	.00022	.00247	.00041	.00083	.01099
%RSD	133.91	39.763	127.65	44.505	50.722
#1	.00001	.00797	-.00061	.00246	.01389
#2	.00032	.00447	-.00003	.00128	.02943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	F **25.496**	**-.00036**	**-.00038**	**-.00029**
Stddev	.00033	.123	.00064	.00020	.00025
%RSD	86.700	.48099	178.43	53.927	87.030
#1	-.00061	25.410	.00009	-.00052	-.00047
#2	-.00015	25.583	-.00081	-.00023	-.00011
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121380-c-1-b@10 Acquired: 7/26/2017 14:57:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00172
Stddev	.00046
%RSD	26.553
#1	.00205
#2	.00140
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3068.6	2209.0	15831.	3088.2
Stddev	4.4	4.2	6.	3.1
%RSD	.14358	.19145	.03826	.09976
#1	3071.7	2212.0	15826.	3090.4
#2	3065.4	2206.0	15835.	3086.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.294%	91.655%	91.875%	96.962%
Range				

Sample Name: 480-121380-c-1-b@100 Acquired: 7/26/2017 15:01:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.01384**	**.00154**	**.00366**	**7.0674**
Stddev	.00059	.00983	.00108	.00002	.0277
%RSD	94.355	71.007	70.182	.60410	.39248
#1	-.00104	.02080	.00230	.00365	7.0478
#2	-.00021	.00689	.00077	.00368	7.0870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**9.0468**	**-.00000**	**-.0333**	**-.00007**
Stddev	.00002	.0471	.00000	.0010	.00004
%RSD	41.468	.52062	2106.0	3.074	54.088
#1	-.00005	9.0134	-.00000	-.0340	-.00010
#2	-.00003	9.0801	.00000	-.0326	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00088**	**.22733**	**.09527**	**.07284**
Stddev	.00009	.00026	.00679	.02735	.00028
%RSD	404.16	29.160	2.9859	28.705	.38897
#1	.00008	-.00106	.23213	.11461	.07304
#2	-.00004	-.00070	.22253	.07593	.07264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121380-c-1-b@100 Acquired: 7/26/2017 15:01:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.57492**	**.01241**	**-.00007**	**20.637**	**-.00023**
Stddev	.00008	.00009	.00024	.072	.00033
%RSD	.01379	.70119	317.79	.35105	145.10
#1	.57486	.01247	-.00024	20.586	.00001
#2	.57497	.01235	.00009	20.688	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00373**	**.00046**	**.00072**	**.00631**
Stddev	.00077	.00206	.00035	.00316	.00835
%RSD	1408.7	55.330	75.615	439.67	132.22
#1	.00060	-.00518	.00071	-.00152	.00041
#2	-.00049	-.00227	.00022	.00296	.01221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**2.6504**	**-.00025**	**.00044**	**.00018**
Stddev	.00032	.0023	.00021	.00079	.00019
%RSD	423.30	.08608	84.465	177.78	105.52
#1	-.00015	2.6488	-.00039	-.00011	.00032
#2	.00030	2.6520	-.00010	.00100	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121380-c-1-b@100 Acquired: 7/26/2017 15:01:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00009
Stddev	.00039
%RSD	421.55
#1	.00037
#2	-.00019
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3535.6	2346.1	16662.	3161.4
Stddev	.3	3.1	9.	16.6
%RSD	.00809	.13224	.05680	.52571
#1	3535.8	2343.9	16655.	3173.1
#2	3535.4	2348.3	16669.	3149.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.821%	97.342%	96.699%	99.260%
Range				

Sample Name: BLANK Acquired: 7/26/2017 15:04:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00618**	**.00151**	**.00265**	**.00053**
Stddev	.00015	.00887	.00109	.00005	.00005
%RSD	624.96	143.50	72.037	1.7564	9.8993
#1	.00008	.01245	.00229	.00262	.00049
#2	-.00013	-.00009	.00074	.00268	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00203**	**.00079**	**-.0084**	**-.00056**
Stddev	.00006	.00347	.00002	.0059	.00001
%RSD	863.99	171.08	2.2829	70.67	1.6402
#1	.00004	.00042	.00081	-.0125	-.00056
#2	-.00005	-.00448	.00078	-.0042	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**-.00070**	**.00081**	**.05912**	**-.00221**
Stddev	.00044	.00109	.00110	.04779	.00123
%RSD	33.542	155.84	136.41	80.840	55.603
#1	.00164	.00007	.00159	.02532	-.00308
#2	.00101	-.00147	.00003	.09291	-.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:04:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.00001**	**.00038**	**.11736**	**-.00077**
Stddev	.00181	.00000	.00006	.00596	.00000
%RSD	471.86	29.975	15.335	5.0762	.31689
#1	-.00167	-.00001	.00042	.11315	-.00077
#2	.00090	-.00001	.00034	.12157	-.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**-.01178**	**.00395**	**.00188**	**.01377**
Stddev	.00017	.00110	.00194	.00248	.00061
%RSD	11.857	9.3557	49.001	131.85	4.4133
#1	.00152	-.01256	.00258	.00363	.01420
#2	.00128	-.01100	.00532	.00013	.01334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**.00007**	**-.00041**	**-.00473**	**-.00010**
Stddev	.00039	.00001	.00012	.00025	.00047
%RSD	25.335	19.030	30.201	5.3301	494.97
#1	.00181	.00008	-.00032	-.00455	-.00043
#2	.00126	.00006	-.00049	-.00491	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:04:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00006**
Stddev	.00024
%RSD	412.38
#1	.00011
#2	-.00023
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3460.0**	**2080.8**	**15845.**	**3071.0**
Stddev	8.8	2.0	23.	12.2
%RSD	.25450	.09628	.14582	.39697
#1	3466.2	2082.2	15828.	3062.4
#2	3453.7	2079.3	15861.	3079.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.791%	86.334%	91.957%	96.423%
Range				

Sample Name: 480-121453-c-1-b Acquired: 7/26/2017 15:08:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.00213**	k **.19789**	k **.01047**	**1.1016**	**.03939**
Stddev	.00173	.00445	.00017	.0023	.00009
%RSD	81.459	2.2491	1.5896	.20600	.24036
#1	k .00090	k .20104	k .01036	1.1000	.03945
#2	k .00336	k .19475	k .01059	1.1032	.03932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00007**	**196.30**	k **.00094**	F **-.5213**	k **-.00062**
Stddev	.00001	.31	.00026	.0156	.00019
%RSD	13.926	.15855	27.537	2.985	29.910
#1	k -.00007	196.08	k .00076	-.5323	k -.00075
#2	k -.00008	196.52	k .00112	-.5103	k -.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				3.000	
Low Limit				-.5000	

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.01658**	k **.00460**	**.00770**	**15.687**	**-.00151**
Stddev	.00037	.00089	.00134	.009	.00149
%RSD	2.2162	19.426	17.448	.05902	98.407
#1	k .01632	k .00397	.00675	15.694	-.00046
#2	k .01684	k .00524	.00865	15.681	-.00256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-c-1-b Acquired: 7/26/2017 15:08:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **31.865**	F **97.942**	**-.00649**	**208.46**	**.00346**
Stddev	.119	.334	.00009	.28	.00014
%RSD	.37394	.34104	1.4622	.13650	4.0268
#1	k 31.781	98.178	-.00656	208.26	.00356
#2	k 31.949	97.706	-.00642	208.66	.00336
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.01609**	**57.362**	k **-.00741**	k **.06414**	**9.1997**
Stddev	.00190	.105	.00097	.00128	.0198
%RSD	11.781	.18248	13.108	1.9991	.21486
#1	k .01475	57.288	k -.00672	k .06323	9.1857
#2	k .01743	57.436	k -.00809	k .06505	9.2136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.41013**	k **.00002**	k **.09519**	k **.00937**
Stddev	.00001	.00040	.00015	.00170	.00012
%RSD	.83026	.09652	829.19	1.7903	1.2541
#1	-.00119	.40985	k -.00009	k .09640	k .00929
#2	-.00121	.41041	k .00012	k .09399	k .00945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-c-1-b Acquired: 7/26/2017 15:08:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	k .00183
Stddev	.00020
%RSD	11.144
#1	k .00197
#2	k .00169
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3074.5	2285.2	15975.	3122.6
Stddev	1.7	3.8	20.	14.4
%RSD	.05476	.16733	.12327	.46244
#1	3075.7	2287.9	15989.	3132.8
#2	3073.3	2282.5	15961.	3112.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.453%	94.815%	92.711%	98.042%
Range				

Sample Name: 480-121453-d-2-b Acquired: 7/26/2017 15:11:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.02040**	k **.82656**	k **.05834**	**9.0947**	**.08811**
Stddev	.00117	.01158	.00058	.0046	.00010
%RSD	5.7380	1.4004	1.0004	.05025	.11185
#1	k .02122	k .81838	k .05793	9.0979	.08818
#2	k .01957	k .83475	k .05876	9.0914	.08804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00006**	**54.597**	k **.00390**	F **-3.213**	k **.00422**
Stddev	.00001	.048	.00004	.003	.00013
%RSD	10.171	.08843	.91624	.0924	3.0732
#1	k -.00007	54.631	k .00393	-3.211	k .00431
#2	k -.00006	54.563	k .00388	-3.215	k .00413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				3.000	
Low Limit				-.5000	

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.37392**	k **.02999**	**.02292**	**71.970**	**.00721**
Stddev	.00019	.00067	.00821	.120	.00040
%RSD	.05144	2.2421	35.824	.16698	5.5692
#1	k .37406	k .03047	.01711	72.055	.00749
#2	k .37379	k .02952	.02872	71.885	.00692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-d-2-b Acquired: 7/26/2017 15:11:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **48.339**	F **155.66**	F **-.03405**	**1325.1**	**.01225**
Stddev	.076	1.08	.00008	.6	.00013
%RSD	.15654	.69492	.22237	.04366	1.0255
#1	k 48.393	156.42	-.03410	1325.5	.01216
#2	k 48.286	154.89	-.03400	1324.7	.01234
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		45.000	4.5000		
Low Limit		-.00300	-.01000		

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.09101**	F **153.25**	kF **-.04359**	k **.36563**	**10.431**
Stddev	.00075	.16	.00035	.00127	.121
%RSD	.82053	.10737	.79448	.34739	1.1617
#1	k .09154	153.37	k -.04384	k .36653	10.517
#2	k .09048	153.13	k -.04335	k .36473	10.346
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		90.000	9.0000		
Low Limit		-.20000	-.02000		

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00194**	**.33859**	k **.00181**	k **.57185**	k **.04928**
Stddev	.00036	.00010	.00043	.00260	.00068
%RSD	18.710	.03089	23.892	.45523	1.3869
#1	-.00168	.33867	k .00150	k .57001	k .04880
#2	-.00220	.33852	k .00211	k .57369	k .04977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-d-2-b Acquired: 7/26/2017 15:11:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	k .00900
Stddev	.00126
%RSD	14.028
#1	k .00990
#2	k .00811
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2710.2	2229.2	14663.	2934.9
Stddev	5.6	3.1	9.	10.2
%RSD	.20581	.13901	.06362	.34759
#1	2714.2	2231.4	14656.	2927.7
#2	2706.3	2227.0	14670.	2942.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.684%	92.492%	85.098%	92.149%
Range				

Sample Name: lcsd 480-368367/13-a Acquired: 7/26/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93013**	**.02008**	**.92001**	**.01776**	**.96821**
Stddev	.00596	.00994	.00342	.00058	.00358
%RSD	.64055	49.482	.37205	3.2495	.36944
#1	.93434	.01305	.92243	.01817	.96568
#2	.92592	.02710	.91759	.01735	.97074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97527**	**.05479**	**.97602**	**-.0244**	**.89266**
Stddev	.00383	.00480	.00060	.0238	.00174
%RSD	.39292	8.7674	.06120	97.92	.19536
#1	.97256	.05139	.97644	-.0412	.89389
#2	.97798	.05819	.97560	-.0075	.89143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95185**	**1.0058**	**.00330**	**.03149**	**-.00072**
Stddev	.00201	.0030	.00149	.00845	.00055
%RSD	.21084	.30028	44.986	26.841	75.530
#1	.95327	1.0079	.00435	.02551	-.00111
#2	.95043	1.0036	.00225	.03747	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368367/13-a Acquired: 7/26/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00099**	**1.0112**	**.94240**	**.48594**	**.91649**
Stddev	.00168	.0040	.00228	.00380	.00040
%RSD	170.28	.39190	.24147	.78116	.04318
#1	-.00020	1.0140	.94401	.48863	.91621
#2	.00217	1.0084	.94080	.48326	.91677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93793**	**.01612**	**.95288**	**.92600**	**.08244**
Stddev	.00057	.00151	.00337	.00404	.00420
%RSD	.06100	9.3627	.35371	.43586	5.0888
#1	.93833	.01719	.95526	.92886	.07947
#2	.93752	.01505	.95050	.92315	.08541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.96903**	**.00005**	**.94884**	**.93148**
Stddev	.00020	.00208	.00014	.00135	.00619
%RSD	2152.7	.21479	281.21	.14214	.66487
#1	-.00015	.96755	-.00005	.94979	.93586
#2	.00014	.97050	.00015	.94788	.92710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368367/13-a Acquired: 7/26/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.95435
Stddev	.00377
%RSD	.39523
#1	.95701
#2	.95168
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3719.0	2407.3	17235.	3166.7
Stddev	2.9	2.7	45.	21.5
%RSD	.07681	.11122	.26034	.68047
#1	3721.0	2409.2	17204.	3182.0
#2	3716.9	2405.4	17267.	3151.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.737%	99.883%	100.03%	99.428%
Range				

Sample Name: BLANK Acquired: 7/26/2017 15:18:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00334**	**.00040**	**.00739**	**.00083**
Stddev	.00046	.01278	.00152	.00012	.00001
%RSD	180.07	382.39	381.39	1.6135	1.4734
#1	-.00058	.01238	.00147	.00748	.00082
#2	.00007	-.00570	-.00068	.00731	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00069**	**.00019**	**.0011**	**-.00014**
Stddev	.00005	.00102	.00008	.0017	.00001
%RSD	1858.5	146.89	41.153	155.3	9.0211
#1	-.00003	.00142	.00024	.0023	-.00013
#2	.00004	-.00003	.00013	-.0001	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00121**	**-.00050**	**.05443**	**-.00052**
Stddev	.00023	.00023	.00273	.01937	.00053
%RSD	473.38	19.154	543.31	35.580	102.60
#1	.00021	.00138	.00143	.06813	-.00090
#2	-.00011	.00105	-.00244	.04074	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:18:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**.01212**	**.00015**	**.07793**	**-.00006**
Stddev	.00062	.00029	.00006	.00135	.00010
%RSD	50.304	2.3535	38.249	1.7370	163.36
#1	.00167	.01192	.00019	.07697	-.00013
#2	.00079	.01232	.00011	.07888	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.00445**	**.00145**	**.00197**	**.02152**
Stddev	.00031	.00235	.00148	.00139	.01516
%RSD	42.098	52.952	101.81	70.577	70.463
#1	-.00095	.00611	.00041	.00099	.01080
#2	-.00051	.00278	.00250	.00296	.03224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00052**	**.00051**	**.00167**	**.00036**
Stddev	.00019	.00001	.00002	.00018	.00020
%RSD	84.827	1.5395	3.9980	10.802	55.717
#1	-.00009	.00052	.00049	.00155	.00051
#2	-.00035	.00051	.00052	.00180	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:18:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00022**
Stddev	.00017
%RSD	77.109
#1	-.00034
#2	-.00010
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3702.1**	**2381.2**	**16909.**	**3117.5**
Stddev	7.5	6.2	57.	7.3
%RSD	.20125	.26094	.33549	.23296
#1	3696.9	2376.8	16869.	3122.6
#2	3707.4	2385.6	16949.	3112.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.286%	98.800%	98.133%	97.881%
Range				

Sample Name: BLANK Acquired: 7/26/2017 15:22:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.02090**	**.00052**	**.00546**	**.00058**
Stddev	.00072	.00569	.00178	.00032	.00004
%RSD	95.101	27.223	342.19	5.8714	6.6830
#1	-.00127	.01687	.00178	.00568	.00061
#2	-.00025	.02492	-.00074	.00523	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00506**	**.00011**	**-.0304**	**-.00004**
Stddev	.00008	.00103	.00006	.0084	.00014
%RSD	1822.3	20.445	52.317	27.66	378.85
#1	-.00005	.00433	.00007	-.0245	-.00013
#2	.00006	.00579	.00015	-.0364	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00012**	**-.00070**	**-.01566**	**-.00092**
Stddev	.00050	.00040	.00028	.00668	.00082
%RSD	55.806	341.25	39.853	42.639	88.921
#1	.00054	-.00017	-.00050	-.01094	-.00150
#2	.00124	.00040	-.00089	-.02038	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:22:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00503**	**.00827**	**-.00005**	**.06403**	**-.00017**
Stddev	.00045	.00035	.00008	.00526	.00019
%RSD	9.0151	4.2416	143.94	8.2224	111.03
#1	.00471	.00852	.00000	.06775	-.00031
#2	.00535	.00802	-.00011	.06031	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00155**	**.00073**	**.00534**	**.01173**
Stddev	.00076	.00092	.00051	.00169	.00299
%RSD	273.15	59.819	70.079	31.590	25.454
#1	.00082	.00089	.00109	.00653	.00962
#2	-.00026	.00220	.00037	.00415	.01384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00041**	**-.00014**	**.00133**	**.00041**
Stddev	.00017	.00004	.00003	.00056	.00051
%RSD	44.157	8.8617	22.183	42.021	125.44
#1	-.00050	.00038	-.00016	.00173	.00077
#2	-.00026	.00044	-.00012	.00094	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:22:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00021
Stddev	.00013
%RSD	63.762
#1	.00030
#2	.00011
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3695.7	2376.2	16960.	3124.7
Stddev	6.4	2.8	57.	6.1
%RSD	.17299	.11927	.33769	.19621
#1	3700.2	2378.2	17001.	3129.1
#2	3691.2	2374.2	16920.	3120.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.114%	98.591%	98.430%	98.109%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 15:25:51 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49933**	**25.306**	**.49768**	**.51551**	**.50787**
Stddev	.00313	.030	.00555	.00094	.00096
%RSD	.62594	.11950	1.1144	.18234	.18832
#1	.50154	25.284	.49375	.51484	.50855
#2	.49712	25.327	.50160	.51617	.50720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51453**	**25.015**	**.50991**	**-.0165**	**.49827**
Stddev	.00218	.093	.00030	.0026	.00000
%RSD	.42301	.37365	.05892	16.00	.00093
#1	.51299	24.949	.50970	-.0184	.49827
#2	.51607	25.081	.51013	-.0146	.49827
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51135**	**.52386**	**24.559**	**25.757**	**.51076**
Stddev	.00204	.00087	.151	.166	.00214
%RSD	.39867	.16560	.61445	.64330	.41874
#1	.51279	.52447	24.452	25.640	.50925
#2	.50991	.52325	24.665	25.874	.51228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 15:25:51 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.542**	**.53225**	**.50430**	**25.355**	**.50598**
Stddev	.052	.00188	.00014	.082	.00071
%RSD	.20502	.35310	.02726	.32175	.14125
#1	25.579	.53358	.50420	25.297	.50548
#2	25.505	.53092	.50440	25.412	.50649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49916**	**25.156**	**.50813**	**.50098**	**24.351**
Stddev	.00200	.002	.00169	.00137	.088
%RSD	.40073	.00770	.33171	.27276	.36088
#1	.49775	25.157	.50694	.50195	24.289
#2	.50058	25.154	.50933	.50001	24.413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50929**	**.49900**	**.50593**	**.50110**	**.50903**
Stddev	.00046	.00110	.00256	.00174	.00090
%RSD	.08937	.21965	.50629	.34766	.17680
#1	.50961	.49823	.50774	.50233	.50966
#2	.50896	.49978	.50412	.49987	.50839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 15:25:51 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50661
Stddev	.00388
%RSD	.76633
#1	.50936
#2	.50386
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3374.2	2352.8	16577.	3155.7
Stddev	2.0	1.4	120.	3.0
%RSD	.06073	.06152	.72646	.09601
#1	3372.8	2353.8	16491.	3157.9
#2	3375.7	2351.7	16662.	3153.6

Sample Name: CCB-4130963 Acquired: 7/26/2017 15:29:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00924**	**.00130**	**.00381**	**.00117**
Stddev	.00039	.01009	.00180	.00021	.00001
%RSD	191.12	109.18	138.56	5.4692	1.0647
#1	.00007	-.01638	.00003	.00396	.00116
#2	-.00048	-.00211	.00258	.00366	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00333**	**.00018**	**-.0189**	**-.00009**
Stddev	.00002	.00274	.00024	.0249	.00003
%RSD	23.444	82.442	137.27	131.3	31.143
#1	-.00007	.00527	.00035	-.0365	-.00007
#2	-.00010	.00139	.00001	-.0014	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00010**	**-.00133**	**.04092**	**.00070**
Stddev	.00050	.00055	.00087	.00149	.00122
%RSD	259.36	526.26	65.306	3.6296	172.69
#1	.00054	-.00049	-.00071	.03987	.00157
#2	-.00016	.00028	-.00194	.04197	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 15:29:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	F **.00618**	**.00004**	**.06621**	**.00018**
Stddev	.00133	.00013	.00003	.00907	.00022
%RSD	165.33	2.1435	88.049	13.701	122.87
#1	.00014	.00609	.00006	.07263	.00002
#2	-.00175	.00628	.00001	.05980	.00033
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00432**	**.00047**	**.00120**	**-.00053**
Stddev	.00000	.00120	.00232	.00082	.00804
%RSD	.60182	27.851	492.37	68.920	1507.7
#1	-.00046	.00517	.00211	.00178	.00515
#2	-.00046	.00347	-.00117	.00061	-.00622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00083**	**.00012**	**.00028**	**.00010**
Stddev	.00011	.00001	.00059	.00030	.00008
%RSD	81.876	1.6756	502.61	106.49	78.247
#1	.00020	.00082	.00053	.00049	.00005
#2	.00005	.00084	-.00030	.00007	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 15:29:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00030**
Stddev	.00006
%RSD	21.280
#1	.00034
#2	.00025
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3699.6**	**2385.4**	**17007.**	**3126.8**
Stddev	1.2	2.0	93.	29.9
%RSD	.03324	.08409	.54948	.95752
#1	3700.4	2386.8	17073.	3105.6
#2	3698.7	2384.0	16941.	3148.0

Sample Name: CCVL-4147888 Acquired: 7/26/2017 15:32:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00485**	**.21499**	**.01466**	**.02358**	F **.00358**
Stddev	.00064	.01376	.00168	.00017	.00007
%RSD	13.098	6.4024	11.471	.71306	2.0731
#1	.00440	.20525	.01347	.02370	.00363
#2	.00530	.22472	.01585	.02347	.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.00200
Range					50.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00212**	**.50081**	**.00225**	**.0066**	**.00359**
Stddev	.00001	.00397	.00007	.0019	.00002
%RSD	.49175	.79271	2.9043	28.00	.55164
#1	.00213	.50362	.00229	.0079	.00360
#2	.00211	.49801	.00220	.0053	.00358
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00492**	**.01250**	**.04826**	**.50258**	**.02964**
Stddev	.00014	.00029	.00082	.00421	.00062
%RSD	2.8543	2.3233	1.7011	.83714	2.0946
#1	.00482	.01230	.04884	.50555	.02920
#2	.00502	.01271	.04768	.49960	.03008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 15:32:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20699**	F **.00910**	**.01000**	**1.0611**	**.00959**
Stddev	.00168	.00025	.00008	.0040	.00004
%RSD	.81157	2.6925	.81296	.37757	.43262
#1	.20818	.00928	.01005	1.0583	.00956
#2	.20580	.00893	.00994	1.0640	.00962
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		50.000%			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00999**	**.19465**	**.02115**	**.02182**	**.50100**
Stddev	.00069	.00226	.00262	.00139	.01420
%RSD	6.8770	1.1600	12.392	6.3759	2.8349
#1	.01048	.19305	.01930	.02280	.49096
#2	.00951	.19624	.02300	.02083	.51105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00905**	**.00609**	**.00518**	**.02013**	**.00476**
Stddev	.00025	.00001	.00026	.00050	.00011
%RSD	2.7616	.13049	5.1088	2.4793	2.3299
#1	.00887	.00609	.00500	.01977	.00484
#2	.00923	.00608	.00537	.02048	.00469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 15:32:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01083**
Stddev	.00013
%RSD	1.2207
#1	.01073
#2	.01092
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3709.1**	**2402.8**	**17053.**	**3141.2**
Stddev	1.2	1.3	43.	19.0
%RSD	.03364	.05313	.25132	.60539
#1	3708.2	2403.7	17023.	3154.6
#2	3710.0	2401.9	17084.	3127.7

Sample Name: mb 480-368425/1-a Acquired: 7/26/2017 15:36:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.01337**	**-.00063**	**.00359**	**.00114**
Stddev	.00030	.01059	.00103	.00040	.00003
%RSD	91.909	79.169	165.22	11.229	2.9886
#1	-.00054	.02086	.00011	.00387	.00117
#2	-.00011	.00589	-.00136	.00330	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.03841**	**.00025**	**.0149**	**-.00011**
Stddev	.00005	.00427	.00005	.0217	.00003
%RSD	111.22	11.104	19.322	145.2	28.126
#1	-.00001	.04143	.00021	.0302	-.00009
#2	-.00008	.03540	.00028	-.0004	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00085**	**.01148**	**.04284**	**-.00106**
Stddev	.00025	.00009	.00049	.01054	.00134
%RSD	28.964	10.755	4.3065	24.602	126.93
#1	.00102	.00092	.01113	.03539	-.00011
#2	.00067	.00079	.01183	.05029	-.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368425/1-a Acquired: 7/26/2017 15:36:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00400**	F **.00406**	**.00010**	**.08748**	**.00032**
Stddev	.00247	.00002	.00005	.00741	.00016
%RSD	61.774	.41655	52.733	8.4704	49.725
#1	.00575	.00405	.00006	.09272	.00044
#2	.00226	.00407	.00014	.08224	.00021
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.01598**	**.00072**	**.00111**	**.20504**
Stddev	.00028	.00041	.00097	.00084	.00946
%RSD	40.964	2.5517	134.99	75.643	4.6123
#1	.00049	.01569	.00141	.00052	.19835
#2	.00089	.01627	.00003	.00171	.21173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04806**	**.00084**	**.00045**	**.00005**	**-.00025**
Stddev	.00041	.00008	.00049	.00059	.00031
%RSD	.85550	9.3960	110.77	1207.5	124.02
#1	.04835	.00079	.00079	-.00037	-.00003
#2	.04777	.00090	.00010	.00047	-.00047
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368425/1-a Acquired: 7/26/2017 15:36:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00258
Stddev	.00005
%RSD	1.9503
#1	.00255
#2	.00262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3750.5	2389.0	17188.	3185.8
Stddev	.3	1.1	24.	40.3
%RSD	.00906	.04614	.13898	1.2648
#1	3750.7	2389.8	17205.	3157.4
#2	3750.2	2388.2	17171.	3214.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.58%	99.123%	99.754%	100.03%
Range				

Sample Name: lcssrm 480-368425/2- Acquired: 7/26/2017 15:39:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48296**	**91.275**	**1.8018**	**.66128**	**3.6867**
Stddev	.00278	.372	.0019	.00070	.0069
%RSD	.57580	.40796	.10327	.10647	.18729
#1	.48099	91.012	1.8032	.66178	3.6915
#2	.48493	91.538	1.8005	.66078	3.6818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97367**	**52.993**	**1.0514**	**1.477**	**1.9552**
Stddev	.00020	.036	.0009	.010	.0008
%RSD	.02055	.06872	.08660	.6870	.03956
#1	.97381	53.019	1.0521	1.484	1.9558
#2	.97353	52.968	1.0508	1.470	1.9547
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.63749**	**.76274**	**136.93**	**28.880**	**.07065**
Stddev	.00397	.00173	.21	.035	.00067
%RSD	.62222	.22695	.15238	.12119	.94165
#1	.63468	.76396	137.08	28.855	.07112
#2	.64029	.76151	136.78	28.905	.07018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: lcssrm 480-368425/2- Acquired: 7/26/2017 15:39:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.654**	**4.2767**	**.54020**	**5.8339**	**1.7929**
Stddev	.062	.0153	.00038	.0113	.0015
%RSD	.22332	.35772	.07066	.19436	.08466
#1	27.610	4.2659	.54047	5.8419	1.7918
#2	27.697	4.2875	.53993	5.8259	1.7939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.79566**	**1.3221**	**.68097**	**.90047**	**1.8123**
Stddev	.00032	.0013	.00375	.00761	.0278
%RSD	.04084	.09526	.55105	.84502	1.5320
#1	.79589	1.3212	.68362	.90585	1.8319
#2	.79543	1.3229	.67831	.89509	1.7927
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94037**	**1.3100**	**4.0995**	**1.4033**	**1.3325**
Stddev	.00005	.0016	.0175	.0045	.0079
%RSD	.00525	.11914	.42630	.32007	.59195
#1	.94041	1.3089	4.0871	1.4064	1.3269
#2	.94034	1.3111	4.1118	1.4001	1.3381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcssrm 480-368425/2- Acquired: 7/26/2017 15:39:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.7796**
Stddev	.0190
%RSD	.68366
#1	2.7661
#2	2.7930
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3208.9**	**2688.7**	**19041.**	**3661.9**
Stddev	1.3	1.5	158.	10.4
%RSD	.04073	.05423	.82951	.28518
#1	3209.8	2687.7	19153.	3654.5
#2	3208.0	2689.7	18930.	3669.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.058%	111.56%	110.51%	114.97%
Range				

Sample Name: 480-121411-c-1-b Acquired: 7/26/2017 15:42:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09799**	**114.77**	**.03158**	**.09846**	**1.2093**
Stddev	.00019	.28	.00148	.00009	.0002
%RSD	.19107	.24514	4.7016	.09408	.01908
#1	.09786	114.57	.03262	.09853	1.2095
#2	.09812	114.97	.03053	.09840	1.2091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00468**	**78.790**	**.03002**	**.3685**	**.06742**
Stddev	.00001	.123	.00011	.0058	.00009
%RSD	.18354	.15617	.37488	1.576	.12942
#1	.00468	78.703	.02994	.3726	.06736
#2	.00469	78.877	.03010	.3644	.06748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34897**	**1.6223**	**151.43**	**12.069**	**.08934**
Stddev	.00010	.0018	.24	.049	.00128
%RSD	.02770	.10887	.16001	.40946	1.4309
#1	.34891	1.6235	151.26	12.103	.09025
#2	.34904	1.6210	151.60	12.034	.08844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-1-b Acquired: 7/26/2017 15:42:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.812**	**2.7411**	**.04527**	**1.6790**	**.76737**
Stddev	.090	.0003	.00008	.0029	.00040
%RSD	.22058	.00909	.16890	.17129	.05202
#1	40.749	2.7409	.04532	1.6811	.76709
#2	40.876	2.7413	.04521	1.6770	.76765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5731**	**1.0068**	**.05255**	**.00213**	**3.1559**
Stddev	.0011	.0050	.00143	.00047	.0143
%RSD	.04401	.50043	2.7225	22.028	.45204
#1	2.5723	1.0032	.05356	.00247	3.1659
#2	2.5739	1.0103	.05154	.00180	3.1458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2708**	**.21910**	**1.6954**	**-.00217**	**.19554**
Stddev	.0001	.00061	.0047	.00115	.00030
%RSD	.00762	.27811	.27959	53.187	.15293
#1	1.2709	.21867	1.6920	-.00135	.19532
#2	1.2708	.21953	1.6987	-.00299	.19575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-1-b Acquired: 7/26/2017 15:42:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.6471**
Stddev	.0024
%RSD	.09186
#1	2.6454
#2	2.6489
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3180.0**	**2703.7**	**18976.**	**3710.5**
Stddev	5.2	4.6	23.	7.8
%RSD	.16416	.16846	.12270	.21081
#1	3183.7	2706.9	18960.	3716.0
#2	3176.3	2700.5	18993.	3704.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.283%	112.18%	110.13%	116.50%
Range				

Sample Name: 480-121411-c-2-b Acquired: 7/26/2017 15:46:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00136**	**39.826**	**.01536**	**.06425**	**1.1455**
Stddev	.00023	.169	.00042	.00023	.0028
%RSD	17.244	.42543	2.7316	.36085	.24795
#1	-.00153	39.706	.01506	.06441	1.1434
#2	-.00119	39.946	.01565	.06408	1.1475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00164**	**338.48**	**.00143**	**.3075**	**.02539**
Stddev	.00012	1.05	.00005	.0121	.00008
%RSD	7.3347	.31131	3.8193	3.942	.32594
#1	.00155	337.73	.00139	.3161	.02533
#2	.00172	339.22	.00147	.2989	.02545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06321**	**.05684**	**80.934**	**11.073**	**.05204**
Stddev	.00057	.00154	.369	.079	.00062
%RSD	.89422	2.7162	.45545	.71090	1.1896
#1	.06281	.05575	80.674	11.018	.05160
#2	.06361	.05794	81.195	11.129	.05248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-2-b Acquired: 7/26/2017 15:46:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**128.67**	**2.9632**	**.00169**	**1.3578**	**.06039**
Stddev	.23	.0016	.00005	.0083	.00055
%RSD	.17521	.05302	3.0245	.60787	.90993
#1	128.51	2.9621	.00173	1.3520	.06078
#2	128.83	2.9643	.00166	1.3636	.06000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04949**	**1.0293**	**-.00058**	**.00044**	**3.3272**
Stddev	.00180	.0063	.00035	.00111	.0255
%RSD	3.6431	.61112	59.513	252.17	.76526
#1	.05077	1.0249	-.00083	.00123	3.3092
#2	.04822	1.0338	-.00034	-.00034	3.3452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05686**	**.34181**	**2.2889**	**-.00281**	**.15383**
Stddev	.00003	.00138	.0045	.00030	.00044
%RSD	.05152	.40338	.19573	10.657	.28424
#1	.05688	.34083	2.2857	-.00302	.15352
#2	.05684	.34278	2.2920	-.00260	.15413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-2-b Acquired: 7/26/2017 15:46:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.29081
Stddev	.00172
%RSD	.59026
#1	.28960
#2	.29203
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2980.8	2407.4	16989.	3423.7
Stddev	1.0	1.6	40.	26.0
%RSD	.03489	.06453	.23360	.75896
#1	2980.0	2406.3	17017.	3442.0
#2	2981.5	2408.5	16961.	3405.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.940%	99.888%	98.598%	107.50%
Range				

Sample Name: 480-121411-c-3-d Acquired: 7/26/2017 15:49:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**76.149**	**.02768**	**.07135**	**.30684**
Stddev	.00024	.420	.00144	.00032	.00053
%RSD	22.761	.55093	5.1852	.44385	.17212
#1	-.00088	75.853	.02667	.07157	.30721
#2	-.00122	76.446	.02870	.07113	.30647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00297**	**331.60**	**.00107**	**.3492**	**.04033**
Stddev	.00005	1.53	.00001	.0065	.00012
%RSD	1.8201	.46085	.77882	1.858	.28611
#1	.00293	332.68	.00108	.3447	.04041
#2	.00301	330.52	.00107	.3538	.04025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09908**	**.09691**	**104.19**	**13.018**	**.08501**
Stddev	.00110	.00053	.23	.035	.00116
%RSD	1.1113	.54433	.22538	.27134	1.3696
#1	.09986	.09728	104.03	12.993	.08419
#2	.09830	.09653	104.36	13.043	.08583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-d Acquired: 7/26/2017 15:49:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**105.58**	**2.5667**	**.00269**	**1.2413**	**.10992**
Stddev	.75	.0151	.00017	.0065	.00018
%RSD	.70804	.58861	6.4071	.52036	.16174
#1	106.11	2.5773	.00281	1.2368	.11004
#2	105.05	2.5560	.00256	1.2459	.10979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10396**	**1.7953**	**.00201**	**.00008**	**2.5673**
Stddev	.00092	.0034	.00060	.00187	.0096
%RSD	.88823	.18705	30.068	2271.7	.37254
#1	.10331	1.7977	.00243	.00141	2.5605
#2	.10461	1.7930	.00158	-.00124	2.5740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05877**	**.44055**	**2.0874**	**-.00259**	**.18637**
Stddev	.00045	.00199	.0123	.00216	.00156
%RSD	.76440	.45197	.58732	83.626	.83966
#1	.05909	.43914	2.0961	-.00106	.18747
#2	.05845	.44196	2.0787	-.00412	.18526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-d Acquired: 7/26/2017 15:49:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.34079**
Stddev	.00431
%RSD	1.2651
#1	.34384
#2	.33774
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2980.5**	**2461.3**	**17443.**	**3442.3**
Stddev	5.8	2.5	109.	4.5
%RSD	.19430	.10108	.62383	.13064
#1	2984.6	2463.1	17366.	3445.4
#2	2976.4	2459.6	17520.	3439.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.934%	102.12%	101.23%	108.08%
Range				

Sample Name: 480-121411-c-3-dSD@5 Acquired: 7/26/2017 15:53:08 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**16.442**	**.00596**	**.01813**	**.06673**
Stddev	.00073	.019	.00278	.00008	.00002
%RSD	50.118	.11461	46.731	.46134	.02417
#1	-.00197	16.429	.00793	.01818	.06674
#2	-.00094	16.455	.00399	.01807	.06672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**73.286**	**.00030**	**.0408**	**.00764**
Stddev	.00007	.139	.00001	.0313	.00011
%RSD	11.024	.18940	3.6877	76.83	1.4080
#1	.00057	73.188	.00031	.0630	.00771
#2	.00066	73.385	.00029	.0186	.00756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02202**	**.01889**	**23.371**	**2.7991**	**.01784**
Stddev	.00013	.00067	.131	.0065	.00078
%RSD	.61147	3.5675	.55977	.23193	4.3966
#1	.02193	.01937	23.279	2.7945	.01728
#2	.02212	.01841	23.464	2.8037	.01839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-dSD@5 Acquired: 7/26/2017 15:53:08 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.081**	**.57196**	**.00024**	**.29782**	**.02141**
Stddev	.005	.00050	.00024	.00624	.00002
%RSD	.02382	.08804	100.86	2.0939	.09589
#1	23.077	.57232	.00041	.30223	.02139
#2	23.085	.57160	.00007	.29341	.02142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01943**	**.38301**	**-.00145**	**-.00243**	**.54516**
Stddev	.00098	.00146	.00087	.00222	.02738
%RSD	5.0455	.38141	60.342	91.265	5.0215
#1	.02012	.38404	-.00083	-.00400	.52581
#2	.01874	.38198	-.00206	-.00086	.56452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01152**	**.09678**	**.45844**	**-.00061**	**.04156**
Stddev	.00011	.00019	.00280	.00081	.00103
%RSD	.91903	.19128	.61134	132.44	2.4718
#1	.01160	.09665	.46042	-.00004	.04228
#2	.01145	.09691	.45646	-.00119	.04083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-dSD@5 Acquired: 7/26/2017 15:53:08 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07815
Stddev	.00028
%RSD	.36458
#1	.07835
#2	.07794
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3392.4	2386.6	16860.	3201.5
Stddev	.6	1.1	3.	.9
%RSD	.01875	.04658	.01634	.02679
#1	3392.8	2387.4	16858.	3200.9
#2	3391.9	2385.8	16862.	3202.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.979%	99.024%	97.849%	100.52%
Range				

Sample Name: 480-121411-c-3-d PDS Acquired: 7/26/2017 15:56:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08778**	**93.216**	**.37884**	**.42274**	**.67041**
Stddev	.00103	.063	.00350	.00049	.00053
%RSD	1.1750	.06739	.92478	.11677	.07891
#1	.08851	93.171	.37637	.42309	.67079
#2	.08705	93.260	.38132	.42239	.67004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36976**	**334.58**	**.37677**	**.3160**	**.43543**
Stddev	.00003	2.13	.00010	.0159	.00052
%RSD	.00875	.63645	.02598	5.023	.12049
#1	.36974	336.08	.37684	.3272	.43506
#2	.36978	333.07	.37670	.3048	.43581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44533**	**.49081**	**118.39**	**32.246**	**.46700**
Stddev	.00191	.00201	.18	.028	.00009
%RSD	.42823	.41025	.14807	.08754	.01913
#1	.44668	.48939	118.26	32.226	.46706
#2	.44398	.49223	118.51	32.266	.46693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-d PDS Acquired: 7/26/2017 15:56:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**121.54**	**2.8608**	**.35034**	**19.923**	**.50728**
Stddev	.23	.0069	.00185	.001	.00002
%RSD	.19104	.24202	.52947	.00370	.00489
#1	121.71	2.8657	.35165	19.923	.50726
#2	121.38	2.8559	.34903	19.922	.50729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50949**	**1.7651**	**.37293**	**.35739**	**7.2655**
Stddev	.00096	.0024	.00306	.00515	.0880
%RSD	.18798	.13483	.81959	1.4404	1.2110
#1	.50881	1.7634	.37077	.36103	7.3278
#2	.51017	1.7667	.37509	.35375	7.2033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05875**	**.79287**	**2.5103**	**.38298**	**.54502**
Stddev	.00097	.00048	.0136	.00081	.00274
%RSD	1.6477	.06051	.53996	.21136	.50329
#1	.05806	.79321	2.5199	.38241	.54696
#2	.05943	.79253	2.5007	.38355	.54308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-d PDS Acquired: 7/26/2017 15:56:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.67135
Stddev	.00014
%RSD	.02156
#1	.67145
#2	.67125
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2921.3	2437.9	17303.	3442.3
Stddev	3.7	6.1	27.	9.4
%RSD	.12648	.25117	.15449	.27264
#1	2918.7	2433.6	17322.	3435.7
#2	2924.0	2442.2	17284.	3448.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.346%	101.15%	100.42%	108.08%
Range				

Sample Name: 480-121411-c-3-e ms Acquired: 7/26/2017 15:59:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08320**	**114.52**	**.35372**	**.44657**	**.74942**
Stddev	.00072	.15	.00283	.00079	.00065
%RSD	.86228	.13224	.79977	.17680	.08665
#1	.08269	114.41	.35572	.44712	.74896
#2	.08371	114.62	.35172	.44601	.74988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34404**	**349.16**	**.35225**	**.3660**	**.41508**
Stddev	.00029	1.56	.00104	.0258	.00000
%RSD	.08328	.44748	.29499	7.056	.00079
#1	.34425	348.05	.35298	.3843	.41508
#2	.34384	350.26	.35151	.3478	.41509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44360**	**.48058**	**112.79**	**42.988**	**.44103**
Stddev	.00013	.00033	.22	.044	.00213
%RSD	.02872	.06791	.19229	.10303	.48305
#1	.44369	.48035	112.64	42.957	.43952
#2	.44351	.48081	112.94	43.019	.44253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-e ms Acquired: 7/26/2017 15:59:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**116.60**	**2.9807**	**.32472**	**19.667**	**.47510**
Stddev	.50	.0089	.00067	.003	.00061
%RSD	.43229	.29792	.20783	.01502	.12867
#1	116.96	2.9870	.32520	19.665	.47553
#2	116.25	2.9744	.32425	19.669	.47466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47489**	**25.174**	**.29924**	**.33828**	**4.9092**
Stddev	.00377	.062	.00019	.00020	.0016
%RSD	.79448	.24722	.06234	.05952	.03225
#1	.47222	25.218	.29937	.33843	4.9103
#2	.47755	25.130	.29911	.33814	4.9081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45061**	**.86817**	**3.6234**	**.36292**	**.56277**
Stddev	.00015	.00044	.0103	.00019	.00072
%RSD	.03240	.05095	.28437	.05109	.12844
#1	.45050	.86785	3.6307	.36279	.56328
#2	.45071	.86848	3.6162	.36305	.56226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-e ms Acquired: 7/26/2017 15:59:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.62000
Stddev	.00400
%RSD	.64498
#1	.62283
#2	.61717
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2900.4	2472.2	17387.	3489.6
Stddev	6.3	10.9	50.	5.9
%RSD	.21749	.43964	.28844	.16973
#1	2895.9	2464.5	17352.	3493.8
#2	2904.8	2479.9	17423.	3485.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.784%	102.58%	100.91%	109.57%
Range				

Sample Name: 480-121411-c-3-f msd Acquired: 7/26/2017 16:03:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08144**	**121.72**	**.34351**	**.45328**	**.77136**
Stddev	.00180	.40	.00248	.00068	.00311
%RSD	2.2162	.32681	.72261	.14903	.40336
#1	.08272	121.44	.34175	.45281	.76916
#2	.08017	122.00	.34526	.45376	.77356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33688**	**403.07**	**.34630**	**.3406**	**.40065**
Stddev	.00131	2.53	.00037	.0309	.00042
%RSD	.38945	.62738	.10685	9.066	.10550
#1	.33596	401.28	.34604	.3188	.40035
#2	.33781	404.86	.34656	.3624	.40095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43328**	**.46692**	**109.43**	**46.996**	**.43766**
Stddev	.00127	.00217	.73	.227	.00021
%RSD	.29403	.46572	.67161	.48380	.04760
#1	.43418	.46538	108.91	46.836	.43780
#2	.43238	.46845	109.95	47.157	.43751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-f msd Acquired: 7/26/2017 16:03:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**115.38**	**2.8494**	**.31521**	**19.194**	**.46386**
Stddev	.03	.0023	.00019	.059	.00007
%RSD	.02546	.08091	.06074	.30548	.01607
#1	115.40	2.8510	.31535	19.153	.46381
#2	115.36	2.8478	.31508	19.236	.46391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44251**	**18.577**	**.27594**	**.32668**	**3.8879**
Stddev	.00098	.030	.00052	.00280	.0343
%RSD	.22126	.16290	.18787	.85642	.88305
#1	.44320	18.598	.27557	.32866	3.8636
#2	.44182	18.556	.27631	.32470	3.9122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43902**	**.96964**	**2.8804**	**.35828**	**.54650**
Stddev	.00217	.00164	.0014	.00305	.00300
%RSD	.49517	.16889	.04868	.85113	.54904
#1	.44056	.96848	2.8813	.36043	.54862
#2	.43749	.97080	2.8794	.35612	.54438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-f msd Acquired: 7/26/2017 16:03:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.59988
Stddev	.00281
%RSD	.46872
#1	.60187
#2	.59790
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2879.9	2456.5	17269.	3456.5
Stddev	1.8	4.5	59.	8.8
%RSD	.06328	.18516	.34086	.25352
#1	2881.2	2459.7	17227.	3462.7
#2	2878.6	2453.2	17310.	3450.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.235%	101.92%	100.22%	108.53%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:06:47 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49003**	**25.224**	**.49120**	**.51444**	**.51350**
Stddev	.00017	.114	.00016	.00049	.00157
%RSD	.03474	.45266	.03266	.09514	.30654
#1	.49015	25.143	.49131	.51409	.51461
#2	.48991	25.305	.49108	.51479	.51239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51816**	**25.041**	**.51102**	**-.0249**	**.49901**
Stddev	.00134	.082	.00017	.0123	.00059
%RSD	.25904	.32750	.03361	49.27	.11902
#1	.51721	24.983	.51114	-.0335	.49859
#2	.51910	25.099	.51090	-.0162	.49943
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50256**	**.53450**	**24.538**	**26.244**	**.51529**
Stddev	.00193	.00280	.069	.078	.00089
%RSD	.38382	.52307	.28266	.29815	.17367
#1	.50120	.53647	24.489	26.188	.51465
#2	.50392	.53252	24.587	26.299	.51592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:06:47 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.618**	**.53006**	**.50110**	**25.710**	**.50763**
Stddev	.140	.00279	.00099	.046	.00035
%RSD	.54480	.52629	.19712	.18001	.06801
#1	25.717	.53204	.50040	25.677	.50788
#2	25.520	.52809	.50180	25.742	.50739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49825**	**25.102**	**.50830**	**.49333**	**24.208**
Stddev	.00289	.028	.00349	.00210	.012
%RSD	.57937	.11002	.68726	.42485	.05085
#1	.50029	25.082	.50583	.49481	24.199
#2	.49621	25.122	.51077	.49184	24.216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50867**	**.49883**	**.49999**	**.49573**	**.50218**
Stddev	.00040	.00137	.00056	.00147	.00094
%RSD	.07846	.27467	.11140	.29561	.18694
#1	.50895	.49786	.49959	.49677	.50151
#2	.50839	.49980	.50038	.49469	.50284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:06:47 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50509
Stddev	.00279
%RSD	.55192
#1	.50706
#2	.50311
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3372.8	2351.6	16540.	3118.2
Stddev	1.3	.0	21.	11.1
%RSD	.03805	.00112	.12896	.35505
#1	3373.7	2351.6	16555.	3126.1
#2	3371.9	2351.6	16525.	3110.4

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:09:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00491**	**.00063**	**.00197**	**.00053**
Stddev	.00047	.02583	.00107	.00018	.00002
%RSD	139.39	525.98	170.02	9.2933	4.0764
#1	-.00068	.02317	.00138	.00210	.00054
#2	-.00000	-.01335	-.00013	.00184	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.02638**	**.00009**	**-.0154**	**-.00002**
Stddev	.00005	.00045	.00002	.0081	.00017
%RSD	74.186	1.6940	18.712	52.26	930.39
#1	-.00010	.02669	.00010	-.0211	.00010
#2	-.00003	.02606	.00008	-.0097	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00123**	**.01233**	**.05727**	**-.00078**
Stddev	.00010	.00021	.00197	.01537	.00004
%RSD	12.564	17.035	15.972	26.838	5.6802
#1	.00070	.00138	.01373	.06813	-.00074
#2	.00084	.00108	.01094	.04640	-.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:09:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01066**	**.00100**	**.00001**	**.03528**	**-.00015**
Stddev	.00325	.00004	.00019	.01442	.00052
%RSD	30.457	4.4836	1370.6	40.878	351.97
#1	.01296	.00097	.00015	.02508	-.00051
#2	.00836	.00103	-.00012	.04548	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00242**	**-.00052**	**.00239**	**.00940**
Stddev	.00015	.00054	.00089	.00051	.00849
%RSD	25.719	22.480	171.27	21.518	90.348
#1	.00071	.00204	.00011	.00203	.00339
#2	.00049	.00281	-.00114	.00275	.01540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00040**	**.00033**	**.00074**	**.00004**
Stddev	.00024	.00005	.00059	.00037	.00005
%RSD	101.96	12.635	182.67	50.358	124.83
#1	-.00007	.00036	-.00009	.00048	.00007
#2	-.00041	.00043	.00074	.00101	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:09:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00047
Stddev	.00023
%RSD	49.382
#1	.00030
#2	.00063
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3703.6	2380.6	16951.	3096.0
Stddev	3.9	1.3	87.	.9
%RSD	.10490	.05428	.51566	.02772
#1	3700.8	2379.7	16890.	3095.4
#2	3706.3	2381.5	17013.	3096.6

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:13:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00488**	**.21485**	**.01561**	**.02194**	**.00246**
Stddev	.00053	.00342	.00018	.00008	.00000
%RSD	10.842	1.5937	1.1531	.37832	.07028
#1	.00451	.21243	.01548	.02200	.00246
#2	.00526	.21727	.01573	.02188	.00246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	**.51752**	**.00215**	**-.0360**	**.00380**
Stddev	.00003	.00170	.00000	.0142	.00008
%RSD	1.4033	.32901	.10003	39.51	2.0295
#1	.00222	.51631	.00215	-.0259	.00375
#2	.00217	.51872	.00215	-.0460	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00446**	**.01156**	**.05600**	**.54180**	**.03030**
Stddev	.00031	.00024	.00066	.01598	.00028
%RSD	6.9994	2.0336	1.1752	2.9500	.92695
#1	.00468	.01139	.05553	.55310	.03010
#2	.00424	.01172	.05647	.53050	.03050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:13:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21252**	**.00371**	**.01004**	**1.0452**	**.00979**
Stddev	.00027	.00009	.00004	.0014	.00022
%RSD	.12633	2.3775	.41946	.12918	2.2898
#1	.21233	.00365	.01007	1.0443	.00964
#2	.21271	.00378	.01001	1.0462	.00995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00972**	**.19644**	**.02149**	**.02903**	**.49777**
Stddev	.00090	.00117	.00213	.00275	.00251
%RSD	9.2828	.59453	9.8966	9.4872	.50409
#1	.01035	.19562	.02300	.03098	.49600
#2	.00908	.19727	.01999	.02708	.49955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00912**	**.00513**	**.00501**	**.01991**	**.00507**
Stddev	.00015	.00001	.00012	.00005	.00014
%RSD	1.6311	.14495	2.4750	.24435	2.8248
#1	.00901	.00513	.00510	.01987	.00518
#2	.00922	.00512	.00492	.01994	.00497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:13:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01110
Stddev	.00046
%RSD	4.1147
#1	.01077
#2	.01142
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3721.7	2411.5	17072.	3123.0
Stddev	7.9	5.1	14.	10.9
%RSD	.21150	.21088	.08022	.34771
#1	3727.3	2415.1	17082.	3115.3
#2	3716.2	2407.9	17063.	3130.7

Sample Name: 480-121411-c-4-b Acquired: 7/26/2017 16:16:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.06489	85.679	.05118	.12642	1.5492
Stddev	.00125	.364	.00171	.00023	.0027
%RSD	1.9323	.42474	3.3437	.18381	.17290
#1	.06401	85.936	.05239	.12625	1.5473
#2	.06578	85.422	.04997	.12658	1.5511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00352	221.57	.05393	.2767	.05264
Stddev	.00004	.58	.00017	.0528	.00012
%RSD	1.2112	.26244	.32375	19.10	.22224
#1	.00349	221.98	.05406	.3141	.05255
#2	.00355	221.16	.05381	.2393	.05272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.28288	7.2547	184.45	8.4933	.05977
Stddev	.00042	.0070	.13	.0857	.00221
%RSD	.14989	.09620	.07141	1.0086	3.7007
#1	.28258	7.2498	184.36	8.4327	.05821
#2	.28318	7.2596	184.55	8.5538	.06134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-4-b Acquired: 7/26/2017 16:16:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**93.811**	**3.8560**	**.05176**	**1.5990**	**.33349**
Stddev	.071	.0016	.00014	.0062	.00020
%RSD	.07587	.04162	.27873	.38635	.06101
#1	93.761	3.8548	.05166	1.6034	.33364
#2	93.861	3.8571	.05186	1.5946	.33335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4029**	**1.7798**	**.05481**	**.00565**	**7.2417**
Stddev	.0004	.0004	.00019	.00306	.0622
%RSD	.02474	.02430	.34419	54.166	.85880
#1	1.4031	1.7795	.05467	.00782	7.2856
#2	1.4026	1.7801	.05494	.00349	7.1977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17710**	**.36527**	**1.7226**	**.00059**	**.15518**
Stddev	.00085	.00059	.0040	.00030	.00138
%RSD	.48263	.16248	.23450	51.048	.88644
#1	.17650	.36569	1.7197	.00081	.15421
#2	.17771	.36485	1.7254	.00038	.15615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-4-b Acquired: 7/26/2017 16:16:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**3.1651**
Stddev	.0006
%RSD	.01980
#1	3.1655
#2	3.1646
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3017.4**	**2414.6**	**17166.**	**3367.9**
Stddev	3.3	1.5	43.	10.0
%RSD	.11010	.06029	.24884	.29656
#1	3015.0	2413.6	17136.	3360.9
#2	3019.7	2415.7	17196.	3375.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.922%	100.19%	99.626%	105.75%
Range				

Sample Name: 480-121458-c-2-a Acquired: 7/26/2017 16:20:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**107.88**	**.02477**	**.10331**	**.63556**
Stddev	.00040	.21	.00323	.00026	.00346
%RSD	27.736	.19260	13.025	.24779	.54473
#1	-.00174	107.73	.02705	.10312	.63801
#2	-.00117	108.03	.02249	.10349	.63312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00408**	**51.671**	**.00034**	**.4155**	**.03827**
Stddev	.00001	.165	.00002	.0319	.00038
%RSD	.14675	.32000	6.7997	7.679	1.0035
#1	.00408	51.554	.00032	.3930	.03854
#2	.00409	51.788	.00036	.4381	.03800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12394**	**.09354**	**117.92**	**19.282**	**.11356**
Stddev	.00101	.00084	.35	.060	.00010
%RSD	.81326	.89850	.29940	.31287	.08822
#1	.12466	.09413	117.68	19.240	.11349
#2	.12323	.09294	118.17	19.325	.11363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-c-2-a Acquired: 7/26/2017 16:20:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.019**	**2.1345**	**.00079**	**2.1322**	**.10471**
Stddev	.012	.0045	.00001	.0128	.00075
%RSD	.04599	.21125	.83642	.59942	.71913
#1	25.027	2.1313	.00079	2.1232	.10525
#2	25.011	2.1377	.00078	2.1412	.10418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11495**	**.53432**	**.00009**	**.00349**	**2.5182**
Stddev	.00026	.00247	.00041	.00072	.0433
%RSD	.22238	.46161	482.51	20.737	1.7207
#1	.11477	.53606	-.00021	.00298	2.5489
#2	.11513	.53257	.00038	.00400	2.4876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05843**	**.14769**	**1.7792**	**-.00273**	**.19504**
Stddev	.00083	.00063	.0020	.00084	.00052
%RSD	1.4120	.42690	.11240	30.691	.26714
#1	.05902	.14724	1.7806	-.00214	.19541
#2	.05785	.14813	1.7777	-.00333	.19467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-c-2-a Acquired: 7/26/2017 16:20:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.32512
Stddev	.00123
%RSD	.37798
#1	.32599
#2	.32425
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3242.0	2811.6	19744.	3779.7
Stddev	5.7	.1	37.	4.0
%RSD	.17469	.00309	.18798	.10583
#1	3246.0	2811.7	19770.	3782.5
#2	3238.0	2811.5	19718.	3776.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.946%	116.66%	114.59%	118.67%
Range				

Sample Name: 480-121458-a-4-a Acquired: 7/26/2017 16:23:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**9.7302**	**.02554**	**.06232**	**.06288**
Stddev	.00004	.0240	.00112	.00058	.00037
%RSD	7.8352	.24720	4.3760	.92693	.59285
#1	-.00046	9.7472	.02475	.06273	.06262
#2	-.00051	9.7132	.02633	.06192	.06315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**863.40**	**.01163**	**.0637**	**.00513**
Stddev	.00002	6.93	.00019	.0049	.00016
%RSD	4.6886	.80229	1.6252	7.740	3.0349
#1	.00052	868.29	.01177	.0672	.00502
#2	.00048	858.50	.01150	.0602	.00524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02429**	**.01701**	**31.907**	**5.2729**	**-.00878**
Stddev	.00029	.00015	.193	.0072	.00149
%RSD	1.2039	.89180	.60399	.13627	16.980
#1	.02450	.01712	32.043	5.2678	-.00984
#2	.02409	.01690	31.770	5.2780	-.00773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-a-4-a Acquired: 7/26/2017 16:23:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **559.45**	**1.4214**	**.00325**	**1.4476**	**.03873**
Stddev	2.04	.0004	.00032	.0100	.00089
%RSD	.36535	.02632	9.9087	.68786	2.3041
#1	560.90	1.4211	.00302	1.4546	.03810
#2	558.00	1.4217	.00347	1.4405	.03936
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	450.00				
Low Limit	-.20000				

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44876**	**35.997**	**.00096**	**-.00033**	**1.8894**
Stddev	.00055	.010	.00032	.00187	.0116
%RSD	.12155	.02896	32.819	561.72	.61282
#1	.44837	36.004	.00119	.00099	1.8976
#2	.44914	35.990	.00074	-.00166	1.8812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04245**	**.36542**	**.07661**	**.00123**	**.11132**
Stddev	.00028	.00178	.00052	.00309	.00055
%RSD	.66331	.48755	.68018	250.57	.49810
#1	.04265	.36668	.07624	-.00095	.11171
#2	.04225	.36416	.07698	.00342	.11093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-a-4-a Acquired: 7/26/2017 16:23:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.1841**
Stddev	.0010
%RSD	.04629
#1	2.1833
#2	2.1848
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2689.2**	**2105.7**	**15128.**	**3119.1**
Stddev	4.5	3.0	4.	1.2
%RSD	.16904	.14412	.02961	.03707
#1	2685.9	2103.5	15131.	3118.3
#2	2692.4	2107.8	15124.	3119.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.119%	87.368%	87.795%	97.932%
Range				

Sample Name: 480-121458-c-5-a Acquired: 7/26/2017 16:27:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00102**	**61.364**	**.03562**	**.08231**	**.61815**
Stddev	.00248	.110	.00162	.00031	.00049
%RSD	243.66	.17931	4.5388	.37381	.07884
#1	.00074	61.286	.03448	.08252	.61780
#2	-.00278	61.442	.03676	.08209	.61849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00270**	**265.83**	**.00979**	**.3472**	**.03991**
Stddev	.00008	2.83	.00017	.0157	.00024
%RSD	2.8789	1.0652	1.7630	4.517	.59957
#1	.00264	263.83	.00991	.3361	.04008
#2	.00275	267.83	.00967	.3583	.03974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08256**	**.21483**	**102.82**	**14.909**	**.05962**
Stddev	.00040	.00034	.65	.110	.00085
%RSD	.48847	.15873	.63032	.73518	1.4273
#1	.08285	.21507	102.36	14.831	.05902
#2	.08228	.21459	103.28	14.986	.06022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-c-5-a Acquired: 7/26/2017 16:27:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.233**	**5.1410**	**.00259**	**1.1282**	**.09604**
Stddev	.073	.0022	.00018	.0113	.00142
%RSD	.10750	.04324	6.7645	.99676	1.4811
#1	68.285	5.1394	.00272	1.1202	.09503
#2	68.181	5.1425	.00247	1.1362	.09704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6283**	**1.9737**	**.00261**	**.00175**	**3.1434**
Stddev	.0018	.0027	.00021	.00126	.0012
%RSD	.06809	.13403	8.1669	71.763	.03861
#1	2.6296	1.9718	.00276	.00086	3.1425
#2	2.6271	1.9756	.00246	.00264	3.1443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07816**	**.37809**	**1.2910**	**-.00111**	**.13513**
Stddev	.00044	.00182	.0042	.00096	.00103
%RSD	.56083	.48015	.32306	86.472	.76382
#1	.07847	.37681	1.2881	-.00043	.13440
#2	.07785	.37938	1.2940	-.00180	.13586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-c-5-a Acquired: 7/26/2017 16:27:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.3541**
Stddev	.0025
%RSD	.18509
#1	1.3559
#2	1.3523
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3046.2**	**2503.6**	**17709.**	**3456.5**
Stddev	1.8	2.1	38.	11.9
%RSD	.05946	.08422	.21293	.34381
#1	3044.9	2502.1	17736.	3464.9
#2	3047.5	2505.1	17682.	3448.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.694%	103.88%	102.78%	108.53%
Range				

Sample Name: 480-121458-d-6-a Acquired: 7/26/2017 16:30:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**69.445**	**.03490**	**.14191**	**.67420**
Stddev	.00009	.132	.00127	.00037	.00002
%RSD	27.765	.18947	3.6435	.26422	.00260
#1	-.00025	69.352	.03580	.14217	.67421
#2	-.00037	69.538	.03400	.14164	.67419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00285**	**388.75**	**.00322**	**.3658**	**.04058**
Stddev	.00007	4.21	.00024	.0107	.00003
%RSD	2.5297	1.0836	7.5153	2.929	.08529
#1	.00280	385.77	.00304	.3734	.04055
#2	.00290	391.73	.00339	.3583	.04060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08902**	**.19654**	**91.693**	**18.279**	**.07712**
Stddev	.00033	.00070	.777	.117	.00024
%RSD	.37457	.35660	.84741	.63879	.31540
#1	.08879	.19703	91.143	18.196	.07695
#2	.08926	.19604	92.242	18.362	.07729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-d-6-a Acquired: 7/26/2017 16:30:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**88.075**	**4.0539**	**.00139**	**2.8902**	**.09078**
Stddev	.030	.0008	.00037	.0196	.00089
%RSD	.03448	.01933	26.847	.67816	.98489
#1	88.053	4.0533	.00166	2.8763	.09015
#2	88.096	4.0544	.00113	2.9041	.09141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2820**	**5.0156**	**-.00046**	**.00222**	**3.8623**
Stddev	.0011	.0088	.00007	.00186	.0078
%RSD	.08921	.17523	16.307	83.748	.20177
#1	1.2812	5.0218	-.00051	.00091	3.8678
#2	1.2829	5.0093	-.00041	.00354	3.8567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07270**	**.76981**	**1.2296**	**-.00342**	**.14510**
Stddev	.00061	.00232	.0028	.00123	.00138
%RSD	.83847	.30114	.22663	35.919	.95078
#1	.07313	.76817	1.2276	-.00429	.14413
#2	.07227	.77145	1.2316	-.00256	.14608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-d-6-a Acquired: 7/26/2017 16:30:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0505
Stddev	.0029
%RSD	.27787
#1	1.0484
#2	1.0526
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2953.5	2451.4	17316.	3485.4
Stddev	.1	3.5	19.	30.8
%RSD	.00428	.14094	.11083	.88265
#1	2953.6	2448.9	17329.	3507.2
#2	2953.5	2453.8	17302.	3463.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.209%	101.71%	100.49%	109.43%
Range				

Sample Name: 480-121458-d-8-a Acquired: 7/26/2017 16:34:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00230**	**128.50**	**.04460**	**.07675**	**.73310**
Stddev	.00089	.49	.00388	.00024	.00044
%RSD	38.776	.38459	8.7056	.30700	.05989
#1	-.00293	128.15	.04735	.07658	.73341
#2	-.00167	128.85	.04186	.07691	.73279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00545**	**42.702**	**.00113**	**.4945**	**.08543**
Stddev	.00010	.127	.00016	.0168	.00050
%RSD	1.8087	.29682	14.071	3.401	.58502
#1	.00552	42.612	.00102	.5064	.08578
#2	.00538	42.791	.00125	.4826	.08508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14755**	**.15901**	**159.32**	**19.013**	**.15515**
Stddev	.00063	.00026	.01	.065	.00150
%RSD	.42498	.16325	.00627	.34351	.96643
#1	.14799	.15920	159.33	18.966	.15409
#2	.14710	.15883	159.31	19.059	.15621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-d-8-a Acquired: 7/26/2017 16:34:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.171**	**2.8779**	**.00218**	**1.2754**	**.18562**
Stddev	.104	.0013	.00019	.0060	.00003
%RSD	.30414	.04431	8.8938	.47043	.01390
#1	34.244	2.8788	.00232	1.2712	.18563
#2	34.097	2.8770	.00204	1.2797	.18560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82005**	**1.0332**	**-.00053**	**.00498**	**3.0456**
Stddev	.00356	.0026	.00045	.00088	.0223
%RSD	.43418	.24716	83.650	17.615	.73208
#1	.82257	1.0350	-.00085	.00560	3.0298
#2	.81753	1.0314	-.00022	.00436	3.0613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06478**	**.17062**	**1.4267**	**-.00253**	**.23029**
Stddev	.00051	.00092	.0025	.00064	.00133
%RSD	.78839	.53733	.17431	25.392	.57917
#1	.06514	.16997	1.4285	-.00299	.23124
#2	.06442	.17127	1.4250	-.00208	.22935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-d-8-a Acquired: 7/26/2017 16:34:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.66597
Stddev	.00190
%RSD	.28456
#1	.66731
#2	.66463
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3252.7	2711.1	18961.	3656.5
Stddev	.0	.3	43.	21.2
%RSD	.00045	.01016	.22425	.57913
#1	3252.7	2711.3	18991.	3671.5
#2	3252.7	2710.9	18930.	3641.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.233%	112.49%	110.04%	114.81%
Range				

Sample Name: 480-121458-b-13-a Acquired: 7/26/2017 16:37:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**85.127**	**.03483**	**.07100**	**.57268**
Stddev	.00054	.207	.00044	.00038	.00433
%RSD	97.166	.24346	1.2757	.52936	.75580
#1	.00017	84.980	.03514	.07073	.57574
#2	.00094	85.273	.03451	.07126	.56962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00292**	**178.50**	**.00506**	**.3364**	**.03885**
Stddev	.00000	.29	.00025	.0148	.00013
%RSD	.02079	.16099	5.0307	4.405	.33782
#1	.00292	178.30	.00488	.3469	.03894
#2	.00292	178.70	.00524	.3259	.03876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09972**	**.14848**	**94.712**	**12.179**	**.08811**
Stddev	.00036	.00053	.106	.004	.00163
%RSD	.36485	.36022	.11179	.03307	1.8550
#1	.09946	.14886	94.638	12.176	.08696
#2	.09997	.14810	94.787	12.182	.08927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-b-13-a Acquired: 7/26/2017 16:37:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**69.807**	**2.4280**	**.00297**	**1.0579**	**.08781**
Stddev	.000	.0008	.00016	.0001	.00061
%RSD	.00045	.03186	5.4148	.00962	.69613
#1	69.807	2.4274	.00308	1.0578	.08825
#2	69.807	2.4285	.00286	1.0580	.08738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9015**	**2.5560**	**.00110**	**.00558**	**3.8456**
Stddev	.0003	.0051	.00039	.00063	.0415
%RSD	.01778	.20055	35.230	11.249	1.0786
#1	1.9012	2.5524	.00082	.00602	3.8750
#2	1.9017	2.5596	.00137	.00514	3.8163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08082**	**.30650**	**1.7580**	**-.00242**	**.15933**
Stddev	.00025	.00003	.0054	.00086	.00037
%RSD	.30625	.01037	.30791	35.512	.23109
#1	.08064	.30648	1.7542	-.00303	.15907
#2	.08099	.30652	1.7619	-.00181	.15959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-b-13-a Acquired: 7/26/2017 16:37:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.2217
Stddev	.0023
%RSD	.19027
#1	1.2201
#2	1.2234
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3127.5	2467.9	17404.	3398.8
Stddev	2.3	3.1	9.	7.2
%RSD	.07314	.12695	.05353	.21139
#1	3129.1	2470.1	17398.	3393.7
#2	3125.8	2465.6	17411.	3403.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.874%	102.40%	101.01%	106.71%
Range				

Sample Name: BLANK Acquired: 7/26/2017 16:41:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.02735**	**.00006**	**.00081**	**.00059**
Stddev	.00064	.01417	.00231	.00012	.00002
%RSD	1220.2	51.794	4176.1	14.710	3.7934
#1	-.00051	.03737	-.00158	.00073	.00061
#2	.00040	.01734	.00169	.00089	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.03293**	**-.00015**	**-.0091**	**.00001**
Stddev	.00000	.00094	.00007	.0050	.00004
%RSD	55.543	2.8648	49.637	55.16	446.24
#1	.00001	.03226	-.00010	-.0055	-.00002
#2	.00000	.03360	-.00020	-.0126	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**-.00013**	**.01444**	**-.02990**	**-.00121**
Stddev	.00084	.00072	.00025	.02019	.00163
%RSD	140.22	542.37	1.7020	67.533	134.50
#1	.00119	-.00064	.01427	-.01562	-.00006
#2	.00001	.00038	.01461	-.04418	-.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 16:41:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01250**	**.00072**	**-.00015**	**.02001**	**.00006**
Stddev	.00301	.00000	.00002	.00763	.00026
%RSD	24.087	.51285	10.740	38.129	412.72
#1	.01463	.00072	-.00016	.01462	-.00012
#2	.01037	.00072	-.00014	.02541	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00150**	**.00031**	**.00063**	**.01253**
Stddev	.00036	.00086	.00020	.00020	.01282
%RSD	146.18	57.337	63.869	31.248	102.29
#1	-.00001	.00211	.00045	.00049	.02159
#2	.00050	.00089	.00017	.00077	.00347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00042**	**.00043**	**.00067**	**.00020**
Stddev	.00031	.00004	.00028	.00038	.00010
%RSD	640.12	8.7561	64.160	56.160	50.492
#1	-.00017	.00044	.00024	.00040	.00027
#2	.00027	.00039	.00063	.00094	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 16:41:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00032
Stddev	.00023
%RSD	71.135
#1	.00016
#2	.00048
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3713.7	2388.0	16944.	3104.4
Stddev	1.4	4.2	27.	.9
%RSD	.03674	.17685	.15751	.02992
#1	3712.8	2385.0	16962.	3105.0
#2	3714.7	2391.0	16925.	3103.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.596%	99.082%	98.334%	97.470%
Range				

Sample Name: mb 480-368588/1-a Acquired: 7/26/2017 16:44:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	F **.43063**	**-.00019**	**.00276**	F **.00218**
Stddev	.00042	.02159	.00043	.00022	.00003
%RSD	292.34	5.0126	232.42	7.9492	1.1789
#1	-.00044	.41537	-.00049	.00291	.00217
#2	.00015	.44590	.00012	.00260	.00220
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit		.20000			.00200
Low Limit		-.04000			-.00300

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.19887**	**.00011**	**-.0307**	**-.00013**
Stddev	.00002	.00191	.00012	.0201	.00016
%RSD	16.259	.95872	110.05	65.52	117.53
#1	-.00009	.19752	.00020	-.0450	-.00002
#2	-.00012	.20022	.00002	-.0165	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00442**	F **.15905**	F **.09214**	**.08783**	**-.00224**
Stddev	.00023	.00023	.00050	.00034	.00018
%RSD	5.1245	.14524	.54080	.39269	8.1825
#1	.00426	.15921	.09179	.08807	-.00211
#2	.00458	.15889	.09250	.08758	-.00237
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	.00400	.01000	.05000		
Low Limit	-.00300	-.00400	-.04000		

Sample Name: mb 480-368588/1-a Acquired: 7/26/2017 16:44:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03937**	**.00190**	**.00037**	**.07754**	**.00086**
Stddev	.00369	.00001	.00020	.00743	.00037
%RSD	9.3671	.69132	54.873	9.5873	43.197
#1	.04198	.00189	.00051	.07229	.00112
#2	.03676	.00191	.00023	.08280	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00322**	**.02813**	**.00183**	**.00089**	**.32078**
Stddev	.00044	.00087	.00215	.00423	.02902
%RSD	13.497	3.0852	117.32	474.47	9.0472
#1	.00292	.02874	.00031	.00388	.30026
#2	.00353	.02751	.00336	-.00210	.34130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.09036**	**.00041**	**.00103**	**.00014**	**.00053**
Stddev	.00057	.00000	.00012	.00116	.00015
%RSD	.63053	.47693	11.654	845.96	27.518
#1	.09076	.00041	.00094	-.00068	.00063
#2	.08996	.00042	.00111	.00095	.00043
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368588/1-a Acquired: 7/26/2017 16:44:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00351
Stddev	.00005
%RSD	1.3315
#1	.00354
#2	.00348
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3764.4	2403.7	17239.	3166.8
Stddev	2.0	.8	7.	5.8
%RSD	.05320	.03405	.04081	.18325
#1	3763.0	2403.2	17243.	3170.9
#2	3765.8	2404.3	17234.	3162.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.96%	99.735%	100.05%	99.430%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:47:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49027**	**25.169**	**.48866**	**.51139**	**.50893**
Stddev	.00226	.120	.00108	.00067	.00123
%RSD	.46099	.47819	.22077	.13070	.24147
#1	.49187	25.084	.48942	.51092	.50806
#2	.48867	25.254	.48790	.51187	.50980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51546**	**24.901**	**.50849**	**-.0392**	**.49670**
Stddev	.00256	.120	.00040	.0051	.00101
%RSD	.49731	.48081	.07835	12.94	.20322
#1	.51365	24.817	.50821	-.0428	.49599
#2	.51727	24.986	.50877	-.0356	.49742
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50120**	**.53141**	**24.402**	**26.095**	**.51274**
Stddev	.00298	.00170	.096	.215	.00040
%RSD	.59532	.31948	.39179	.82416	.07749
#1	.50331	.53021	24.335	25.943	.51302
#2	.49909	.53261	24.470	26.248	.51246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:47:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.396**	**.52555**	**.49907**	**25.627**	**.50603**
Stddev	.010	.00084	.00097	.129	.00119
%RSD	.03841	.16072	.19370	.50242	.23554
#1	25.389	.52615	.49838	25.536	.50519
#2	25.402	.52495	.49975	25.718	.50687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49633**	**25.016**	**.50805**	**.49643**	**24.211**
Stddev	.00099	.001	.00388	.00089	.125
%RSD	.19885	.00583	.76327	.17986	.51563
#1	.49563	25.017	.50531	.49706	24.123
#2	.49703	25.014	.51080	.49580	24.300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50814**	**.49770**	**.49863**	**.49469**	**.49926**
Stddev	.00076	.00246	.00206	.00022	.00327
%RSD	.14984	.49392	.41258	.04459	.65520
#1	.50868	.49596	.49718	.49485	.50157
#2	.50761	.49944	.50009	.49454	.49695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:47:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50145**
Stddev	.00328
%RSD	.65447
#1	.50378
#2	.49913
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3379.0**	**2353.9**	**16562.**	**3101.5**
Stddev	15.6	8.1	4.	11.3
%RSD	.46116	.34446	.02326	.36483
#1	3390.1	2359.6	16565.	3109.5
#2	3368.0	2348.1	16560.	3093.5

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:51:11 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00841**	**-.00028**	**.00086**	**.00015**
Stddev	.00022	.01780	.00128	.00014	.00004
%RSD	74.221	211.78	465.89	16.379	23.815
#1	.00046	.02099	.00063	.00076	.00012
#2	.00014	-.00418	-.00118	.00096	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00746**	**.00002**	**-.0291**	**-.00008**
Stddev	.00015	.00205	.00012	.0539	.00013
%RSD	292.12	27.421	589.54	185.1	154.52
#1	.00006	.00601	.00011	-.0673	-.00017
#2	-.00016	.00890	-.00006	.0090	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00003**	**.00444**	**.04894**	**-.00090**
Stddev	.00007	.00017	.00072	.04227	.00001
%RSD	38.714	666.82	16.313	86.377	1.0706
#1	.00022	.00010	.00393	.01905	-.00091
#2	.00012	-.00015	.00495	.07883	-.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:51:11 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00703**	**.00022**	**.00010**	**.02023**	**-.00009**
Stddev	.00461	.00002	.00001	.00457	.00023
%RSD	65.506	6.8814	14.216	22.583	243.14
#1	.00378	.00023	.00011	.01700	-.00025
#2	.01029	.00021	.00009	.02346	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00110**	**.00171**	**.00250**	**.00429**
Stddev	.00015	.00125	.00242	.00240	.00213
%RSD	61.965	112.87	141.97	96.252	49.722
#1	-.00014	-.00199	.00342	.00080	.00278
#2	-.00035	-.00022	-.00001	.00420	.00580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00011**	**.00021**	**.00103**	**.00019**
Stddev	.00003	.00003	.00011	.00067	.00001
%RSD	44.919	31.771	50.241	65.061	2.7559
#1	-.00004	.00008	.00029	.00055	.00019
#2	-.00008	.00013	.00014	.00150	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:51:11 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00053
Stddev	.00094
%RSD	179.16
#1	-.00014
#2	.00119
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3693.6	2377.8	16916.	3093.6
Stddev	6.7	3.4	38.	19.2
%RSD	.18077	.14193	.22184	.61985
#1	3698.4	2380.2	16890.	3080.0
#2	3688.9	2375.4	16943.	3107.1

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:54:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00596**	**.20794**	**.01617**	**.02102**	**.00227**
Stddev	.00059	.01946	.00026	.00051	.00001
%RSD	9.9543	9.3593	1.6237	2.4402	.29929
#1	.00554	.19417	.01635	.02066	.00228
#2	.00638	.22170	.01598	.02139	.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.51519**	**.00207**	**-.0495**	**.00382**
Stddev	.00014	.00240	.00004	.0067	.00001
%RSD	6.5795	.46607	1.9554	13.45	.28493
#1	.00223	.51350	.00204	-.0448	.00381
#2	.00203	.51689	.00210	-.0542	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.01070**	**.05406**	**.55469**	**.03025**
Stddev	.00037	.00017	.00060	.00243	.00158
%RSD	8.2504	1.6147	1.1017	.43838	5.2216
#1	.00422	.01082	.05364	.55641	.03136
#2	.00475	.01058	.05449	.55297	.02913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:54:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21468**	**.00342**	**.01006**	**1.0485**	**.00985**
Stddev	.00287	.00003	.00016	.0016	.00028
%RSD	1.3385	.99628	1.5775	.15587	2.8505
#1	.21671	.00344	.01018	1.0473	.00965
#2	.21264	.00339	.00995	1.0497	.01005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01002**	**.19728**	**.02079**	**.02626**	**.50440**
Stddev	.00024	.00157	.00049	.00053	.01198
%RSD	2.4029	.79358	2.3417	2.0082	2.3745
#1	.01019	.19839	.02044	.02663	.49593
#2	.00985	.19617	.02113	.02589	.51287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00947**	**.00506**	**.00498**	**.02101**	**.00499**
Stddev	.00024	.00002	.00000	.00019	.00008
%RSD	2.5799	.39524	.01215	.92479	1.5169
#1	.00930	.00507	.00498	.02087	.00505
#2	.00965	.00504	.00498	.02115	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:54:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01158
Stddev	.00053
%RSD	4.5465
#1	.01120
#2	.01195
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3720.8	2404.2	17126.	3128.9
Stddev	6.4	5.3	26.	13.8
%RSD	.17119	.21918	.15071	.44105
#1	3716.3	2400.5	17145.	3119.1
#2	3725.3	2407.9	17108.	3138.6

Sample Name: lcssrm 480-368588/2- Acquired: 7/26/2017 16:58:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48849**	**92.066**	**1.8129**	**.65591**	**3.6370**
Stddev	.00063	.148	.0111	.00028	.0248
%RSD	.12827	.16086	.61227	.04271	.68108
#1	.48805	92.170	1.8050	.65571	3.6545
#2	.48894	91.961	1.8207	.65611	3.6195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95686**	**52.218**	**1.0495**	**1.633**	**1.9813**
Stddev	.00368	.266	.0009	.029	.0011
%RSD	.38476	.50898	.08818	1.763	.05774
#1	.95946	52.406	1.0502	1.653	1.9805
#2	.95426	52.030	1.0489	1.612	1.9821
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.64783**	**.74525**	**135.91**	**28.880**	**.07225**
Stddev	.00179	.00401	1.07	.228	.00192
%RSD	.27684	.53805	.78841	.78816	2.6527
#1	.64656	.74241	136.67	29.041	.07360
#2	.64910	.74808	135.15	28.719	.07089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: lcssrm 480-368588/2- Acquired: 7/26/2017 16:58:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.972**	**3.8800**	**.53621**	**5.8650**	**1.8243**
Stddev	.072	.0156	.00041	.0206	.0021
%RSD	.25810	.40260	.07694	.35062	.11376
#1	27.921	3.8689	.53592	5.8796	1.8228
#2	28.023	3.8910	.53651	5.8505	1.8258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75993**	**1.2866**	**.64666**	**.89546**	**4.2661**
Stddev	.00253	.0035	.00333	.00130	.0269
%RSD	.33300	.26920	.51478	.14478	.63063
#1	.76172	1.2890	.64901	.89455	4.2471
#2	.75814	1.2841	.64430	.89638	4.2851
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95605**	**1.3332**	**4.2133**	**1.4714**	**1.3372**
Stddev	.00169	.0010	.0132	.0045	.0035
%RSD	.17631	.07128	.31352	.30768	.26267
#1	.95486	1.3339	4.2039	1.4682	1.3347
#2	.95725	1.3326	4.2226	1.4746	1.3397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcssrm 480-368588/2- Acquired: 7/26/2017 16:58:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.7745**
Stddev	.0086
%RSD	.30908
#1	2.7684
#2	2.7806
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3210.0**	**2734.3**	**19308.**	**3740.3**
Stddev	1.7	1.1	100.	22.8
%RSD	.05443	.03949	.51689	.61087
#1	3211.2	2735.0	19378.	3724.1
#2	3208.8	2733.5	19237.	3756.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.087%	113.45%	112.06%	117.44%
Range				

Sample Name: 480-121578-c-1-b Acquired: 7/26/2017 17:01:24 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**62.742**	**.01098**	**.14222**	**.33383**
Stddev	.00001	.381	.00369	.00054	.00046
%RSD	2.5971	.60678	33.581	.37816	.13685
#1	-.00052	63.011	.01359	.14260	.33416
#2	-.00054	62.473	.00837	.14184	.33351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00248**	**208.04**	**.00176**	**.1830**	**.02684**
Stddev	.00000	1.08	.00007	.0113	.00008
%RSD	.16699	.51779	4.2334	6.156	.28401
#1	.00248	208.80	.00171	.1910	.02689
#2	.00248	207.28	.00182	.1751	.02678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07909**	**.06561**	**77.938**	**19.241**	**.11638**
Stddev	.00021	.00032	.374	.036	.00114
%RSD	.27071	.48568	.48020	.18822	.98166
#1	.07924	.06583	78.203	19.215	.11719
#2	.07894	.06538	77.673	19.266	.11558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-1-b Acquired: 7/26/2017 17:01:24 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.902**	**1.3947**	**.00125**	**2.3566**	**.06185**
Stddev	.151	.0039	.00000	.0030	.00053
%RSD	.34437	.28268	.20204	.12792	.85815
#1	44.009	1.3975	.00125	2.3587	.06222
#2	43.795	1.3919	.00125	2.3545	.06147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08376**	**6.7201**	**.00136**	**.00246**	**4.6116**
Stddev	.00074	.0073	.00135	.00317	.0198
%RSD	.88328	.10817	99.047	128.70	.42910
#1	.08324	6.7150	.00041	.00471	4.5976
#2	.08429	6.7253	.00232	.00022	4.6256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05303**	**1.3429**	**.84044**	**-.00251**	**.10279**
Stddev	.00114	.0057	.00115	.00011	.00063
%RSD	2.1473	.42165	.13629	4.2439	.60850
#1	.05223	1.3469	.83963	-.00258	.10323
#2	.05384	1.3389	.84125	-.00243	.10234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-1-b Acquired: 7/26/2017 17:01:24 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.38839
Stddev	.00175
%RSD	.44989
#1	.38963
#2	.38716
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3152.4	2395.6	16792.	3302.6
Stddev	5.5	5.1	67.	11.9
%RSD	.17558	.21473	.40064	.35966
#1	3148.5	2392.0	16744.	3294.2
#2	3156.3	2399.3	16839.	3311.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.542%	99.400%	97.454%	103.70%
Range				

Sample Name: 480-121578-c-2-b Acquired: 7/26/2017 17:04:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00147**	**94.338**	**.01182**	**.20065**	**.52562**
Stddev	.00024	.448	.00061	.00044	.00089
%RSD	16.076	.47471	5.1403	.21891	.17001
#1	-.00164	94.022	.01225	.20034	.52499
#2	-.00130	94.655	.01139	.20096	.52625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00340**	**55.201**	**.00202**	**.2030**	**.03071**
Stddev	.00004	.274	.00011	.0178	.00007
%RSD	1.2773	.49689	5.6423	8.769	.23572
#1	.00337	55.007	.00210	.2156	.03076
#2	.00343	55.395	.00194	.1904	.03066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11171**	**.07268**	**97.501**	**32.138**	**.17625**
Stddev	.00093	.00009	.461	.123	.00089
%RSD	.82995	.12953	.47296	.38140	.50259
#1	.11106	.07262	97.175	32.051	.17563
#2	.11237	.07275	97.827	32.225	.17688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-2-b Acquired: 7/26/2017 17:04:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.152**	**1.5546**	**.00201**	**.91018**	**.08576**
Stddev	.080	.0007	.00018	.00195	.00025
%RSD	.20846	.04269	8.9756	.21375	.28735
#1	38.096	1.5551	.00213	.90881	.08593
#2	38.208	1.5542	.00188	.91156	.08558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08898**	**7.1467**	**.00165**	**.00385**	**6.7878**
Stddev	.00076	.0059	.00248	.00286	.0023
%RSD	.85357	.08301	150.66	74.359	.03379
#1	.08952	7.1509	.00340	.00183	6.7862
#2	.08844	7.1425	-.00011	.00587	6.7894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05679**	**.29701**	**1.0999**	**-.00183**	**.14180**
Stddev	.00010	.00100	.0005	.00003	.00007
%RSD	.18126	.33631	.04389	1.5258	.04910
#1	.05686	.29630	1.0996	-.00185	.14175
#2	.05671	.29771	1.1003	-.00181	.14185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-2-b Acquired: 7/26/2017 17:04:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0264**
Stddev	.0027
%RSD	.25834
#1	1.0283
#2	1.0245
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3274.2**	**2467.6**	**17225.**	**3326.1**
Stddev	5.9	4.6	16.	38.8
%RSD	.17933	.18501	.09390	1.1668
#1	3278.3	2470.8	17214.	3353.6
#2	3270.0	2464.3	17237.	3298.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.809%	102.38%	99.969%	104.43%
Range				

Sample Name: 480-121578-a-3-b Acquired: 7/26/2017 17:08:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00168**	**60.336**	**.00854**	**.13133**	**.30409**
Stddev	.00078	.291	.00114	.00036	.00022
%RSD	46.606	.48302	13.318	.27495	.07171
#1	-.00223	60.542	.00773	.13158	.30394
#2	-.00113	60.129	.00934	.13107	.30425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00252**	**390.23**	**.00123**	**.2515**	**.03031**
Stddev	.00004	1.97	.00004	.0126	.00000
%RSD	1.6994	.50445	3.6387	5.025	.00232
#1	.00255	391.62	.00126	.2426	.03031
#2	.00249	388.84	.00120	.2604	.03031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07508**	**.04936**	**71.390**	**18.960**	**.09883**
Stddev	.00006	.00026	.270	.042	.00058
%RSD	.07397	.52894	.37842	.21929	.59093
#1	.07504	.04955	71.581	18.931	.09925
#2	.07512	.04918	71.199	18.990	.09842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-b Acquired: 7/26/2017 17:08:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**158.63**	**1.4281**	**.00070**	**1.6182**	**.06851**
Stddev	.12	.0012	.00010	.0013	.00011
%RSD	.07708	.08673	14.324	.07856	.15857
#1	158.72	1.4272	.00077	1.6191	.06859
#2	158.54	1.4289	.00063	1.6173	.06843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07578**	**4.4038**	**.00129**	**-.00182**	**5.3023**
Stddev	.00084	.0027	.00310	.00138	.0759
%RSD	1.1098	.06007	240.80	75.953	1.4315
#1	.07518	4.4057	-.00090	-.00279	5.3560
#2	.07637	4.4019	.00348	-.00084	5.2487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05890**	**.60288**	**1.3556**	**.00004**	**.11042**
Stddev	.00058	.00325	.0063	.00064	.00124
%RSD	.97823	.53828	.46119	1790.1	1.1228
#1	.05930	.60517	1.3512	-.00041	.10954
#2	.05849	.60058	1.3600	.00049	.11129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-b Acquired: 7/26/2017 17:08:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.32155**
Stddev	.00030
%RSD	.09459
#1	.32177
#2	.32134
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2942.7**	**2358.3**	**16751.**	**3335.2**
Stddev	5.8	2.8	.	12.1
%RSD	.19841	.11746	.00147	.36331
#1	2946.9	2360.2	16751.	3326.7
#2	2938.6	2356.3	16751.	3343.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.920%	97.849%	97.215%	104.72%
Range				

Sample Name: 480-121578-a-3-bSD@5 Acquired: 7/26/2017 17:11:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**12.755**	**.00084**	**.03017**	**.06423**
Stddev	.00008	.061	.00094	.00061	.00020
%RSD	97.682	.47727	111.60	2.0188	.31075
#1	.00015	12.798	.00151	.03061	.06409
#2	.00003	12.712	.00018	.02974	.06437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**85.228**	**.00038**	**.0446**	**.00601**
Stddev	.00003	.504	.00007	.0349	.00010
%RSD	4.9832	.59125	18.979	78.28	1.6385
#1	.00059	85.584	.00043	.0199	.00608
#2	.00064	84.872	.00033	.0693	.00594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01658**	**.00912**	**15.612**	**3.9162**	**.02042**
Stddev	.00029	.00061	.140	.0483	.00010
%RSD	1.7577	6.6782	.89794	1.2338	.48356
#1	.01679	.00869	15.712	3.9504	.02035
#2	.01637	.00955	15.513	3.8820	.02049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-bSD@5 Acquired: 7/26/2017 17:11:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.438**	**.31264**	**-.00013**	**.34545**	**.01331**
Stddev	.187	.00013	.00003	.00199	.00045
%RSD	.55904	.04253	23.563	.57583	3.3480
#1	33.306	.31255	-.00011	.34405	.01299
#2	33.570	.31273	-.00015	.34686	.01362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01563**	**.91339**	**-.00068**	**.00137**	**1.1154**
Stddev	.00028	.00151	.00218	.00143	.0091
%RSD	1.8213	.16482	321.85	103.99	.81951
#1	.01583	.91445	.00087	.00238	1.1218
#2	.01543	.91232	-.00222	.00036	1.1089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01150**	**.12907**	**.29341**	**.00017**	**.02377**
Stddev	.00053	.00029	.00037	.00049	.00056
%RSD	4.5758	.22788	.12763	287.64	2.3468
#1	.01187	.12928	.29315	.00051	.02337
#2	.01112	.12886	.29368	-.00018	.02416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-bSD@5 Acquired: 7/26/2017 17:11:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07339
Stddev	.00104
%RSD	1.4140
#1	.07412
#2	.07265
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3367.0	2364.5	16708.	3180.7
Stddev	.8	.2	40.	24.2
%RSD	.02285	.01038	.23668	.75929
#1	3367.6	2364.7	16680.	3163.7
#2	3366.5	2364.3	16736.	3197.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.298%	98.108%	96.967%	99.868%
Range				

Sample Name: 480-121578-a-3-b PDS Acquired: 7/26/2017 17:14:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09263**	**77.688**	**.37866**	**.49350**	**.67457**
Stddev	.00080	.020	.00214	.00106	.00332
%RSD	.85855	.02528	.56444	.21490	.49218
#1	.09207	77.674	.38017	.49425	.67223
#2	.09319	77.702	.37715	.49275	.67692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38110**	**394.77**	**.39099**	**.2279**	**.42542**
Stddev	.00023	4.09	.00109	.0121	.00070
%RSD	.05935	1.0373	.27764	5.311	.16379
#1	.38094	391.87	.39176	.2365	.42591
#2	.38126	397.66	.39022	.2194	.42493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43838**	**.45397**	**87.310**	**38.088**	**.49332**
Stddev	.00083	.00343	.453	.065	.00352
%RSD	.18883	.75559	.51841	.17035	.71337
#1	.43780	.45154	86.990	38.042	.49084
#2	.43897	.45639	87.630	38.134	.49581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-b PDS Acquired: 7/26/2017 17:14:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**173.55**	**1.7706**	**.36074**	**20.969**	**.46669**
Stddev	.28	.0055	.00056	.052	.00027
%RSD	.16345	.30791	.15542	.24994	.05723
#1	173.35	1.7667	.36113	20.932	.46688
#2	173.75	1.7744	.36034	21.006	.46650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47894**	**4.2975**	**.38780**	**.37428**	**5.6824**
Stddev	.00040	.0120	.00033	.00684	.1407
%RSD	.08361	.28010	.08541	1.8267	2.4766
#1	.47866	4.3060	.38804	.37912	5.5829
#2	.47922	4.2890	.38757	.36945	5.7819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05797**	**.96533**	**1.6910**	**.38398**	**.48832**
Stddev	.00079	.00182	.0067	.00183	.00052
%RSD	1.3559	.18835	.39650	.47596	.10623
#1	.05853	.96405	1.6862	.38527	.48869
#2	.05742	.96662	1.6957	.38269	.48795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-b PDS Acquired: 7/26/2017 17:14:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.67426**
Stddev	.00172
%RSD	.25435
#1	.67305
#2	.67547
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2893.5**	**2345.5**	**16524.**	**3329.3**
Stddev	1.4	7.1	43.	11.2
%RSD	.04889	.30390	.26237	.33546
#1	2892.5	2340.4	16555.	3337.2
#2	2894.5	2350.5	16494.	3321.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.599%	97.318%	95.900%	104.53%
Range				

Sample Name: 480-121578-c-3-c ms Acquired: 7/26/2017 17:18:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08907	122.96	.37618	.64910	.79551
Stddev	.00239	.17	.00004	.00188	.00076
%RSD	2.6817	.13617	.01088	.28937	.09520
#1	.08738	123.08	.37621	.64777	.79497
#2	.09076	122.85	.37615	.65043	.79604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.36761	680.36	.38616	.2928	.43076
Stddev	.00029	.91	.00111	.0458	.00099
%RSD	.07806	.13357	.28623	15.63	.23015
#1	.36781	679.72	.38538	.3251	.43006
#2	.36740	681.00	.38694	.2604	.43146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47266	.44138	108.89	66.542	.65186
Stddev	.00201	.00015	.16	.131	.00195
%RSD	.42528	.03360	.14447	.19633	.29926
#1	.47124	.44148	108.78	66.450	.65324
#2	.47409	.44127	109.00	66.634	.65048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-3-c ms Acquired: 7/26/2017 17:18:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**324.60**	**2.4737**	**.34801**	**21.322**	**.48089**
Stddev	.17	.0017	.00149	.029	.00024
%RSD	.05244	.06967	.42681	.13720	.04982
#1	324.48	2.4725	.34696	21.302	.48105
#2	324.72	2.4749	.34906	21.343	.48072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51124**	**23.376**	**.32870**	**.36656**	**5.5672**
Stddev	.00100	.071	.00134	.00116	.0272
%RSD	.19634	.30187	.40829	.31749	.48849
#1	.51195	23.326	.32775	.36739	5.5480
#2	.51053	23.426	.32965	.36574	5.5864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47831**	**1.0926**	**2.1994**	**.37947**	**.54166**
Stddev	.00096	.0026	.0092	.00204	.00067
%RSD	.19983	.23362	.41846	.53860	.12299
#1	.47898	1.0944	2.1929	.37803	.54119
#2	.47763	1.0907	2.2059	.38092	.54213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-3-c ms Acquired: 7/26/2017 17:18:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.76922
Stddev	.00035
%RSD	.04614
#1	.76947
#2	.76897
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2673.7	2294.7	16234.	3369.0
Stddev	1.6	6.2	49.	20.9
%RSD	.06094	.27056	.30273	.62159
#1	2674.8	2299.1	16269.	3383.8
#2	2672.5	2290.3	16200.	3354.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.704%	95.209%	94.218%	105.78%
Range				

Sample Name: 480-121578-c-3-d msd Acquired: 7/26/2017 17:21:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09044	94.558	.37785	.59361	.69511
Stddev	.00115	.417	.00294	.00006	.00215
%RSD	1.2762	.44141	.77806	.00937	.30886
#1	.08962	94.853	.37993	.59365	.69360
#2	.09125	94.263	.37578	.59357	.69663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.37826	483.84	.39201	.2214	.40899
Stddev	.00253	1.45	.00049	.0154	.00092
%RSD	.66845	.29881	.12558	6.973	.22387
#1	.38005	484.86	.39236	.2105	.40964
#2	.37647	482.82	.39166	.2323	.40834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.43744	.43082	74.717	53.588	.49864
Stddev	.00209	.00214	.445	.429	.00369
%RSD	.47786	.49609	.59597	.80049	.74081
#1	.43596	.42931	75.031	53.892	.50126
#2	.43892	.43233	74.402	53.285	.49603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-3-d msd Acquired: 7/26/2017 17:21:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**219.39**	**1.7833**	**.35887**	**21.271**	**.43957**
Stddev	.39	.0024	.00169	.132	.00084
%RSD	.17871	.13696	.46998	.62154	.19069
#1	219.11	1.7815	.36007	21.365	.44017
#2	219.67	1.7850	.35768	21.178	.43898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45761**	**21.942**	**.33739**	**.37128**	**6.4259**
Stddev	.00135	.042	.00144	.00218	.0168
%RSD	.29445	.18988	.42812	.58610	.26083
#1	.45856	21.971	.33637	.37282	6.4377
#2	.45665	21.913	.33841	.36974	6.4140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46784**	**.88365**	**1.4529**	**.37661**	**.49718**
Stddev	.00074	.00566	.0040	.00048	.00210
%RSD	.15750	.63996	.27650	.12691	.42322
#1	.46732	.88765	1.4500	.37694	.49569
#2	.46837	.87966	1.4557	.37627	.49867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-3-d msd Acquired: 7/26/2017 17:21:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.60057**
Stddev	.00488
%RSD	.81283
#1	.59712
#2	.60402
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2838.9**	**2290.8**	**16220.**	**3264.8**
Stddev	4.6	2.3	84.	9.9
%RSD	.16113	.09886	.51881	.30425
#1	2835.7	2289.2	16279.	3257.8
#2	2842.2	2292.4	16160.	3271.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.136%	95.051%	94.134%	102.51%
Range				

Sample Name: 480-121578-c-4-b Acquired: 7/26/2017 17:25:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00193**	**75.918**	**.02163**	**.12986**	**.41906**
Stddev	.00018	.139	.00145	.00063	.00071
%RSD	9.1834	.18368	6.7219	.48170	.16925
#1	-.00205	75.820	.02265	.12941	.41956
#2	-.00180	76.017	.02060	.13030	.41855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00321**	**450.02**	**.00148**	**.2611**	**.03628**
Stddev	.00006	.01	.00012	.0208	.00007
%RSD	1.9790	.00241	8.3647	7.966	.18774
#1	.00317	450.01	.00157	.2758	.03633
#2	.00326	450.03	.00140	.2464	.03623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09507**	**.08225**	**90.667**	**19.172**	**.09140**
Stddev	.00017	.00055	.017	.014	.00032
%RSD	.18177	.67220	.01925	.07243	.35098
#1	.09495	.08264	90.655	19.182	.09162
#2	.09519	.08186	90.680	19.162	.09117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-4-b Acquired: 7/26/2017 17:25:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**89.963**	**2.4510**	**.00222**	**1.9794**	**.08432**
Stddev	.161	.0049	.00008	.0050	.00060
%RSD	.17877	.20099	3.7661	.25000	.71636
#1	90.077	2.4545	.00216	1.9829	.08475
#2	89.849	2.4476	.00227	1.9759	.08390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19286**	**4.6085**	**.00124**	**.00484**	**4.5846**
Stddev	.00100	.0027	.00028	.00240	.0784
%RSD	.51954	.05822	22.394	49.500	1.7108
#1	.19215	4.6066	.00143	.00315	4.6401
#2	.19357	4.6104	.00104	.00653	4.5292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05494**	**.56056**	**1.4908**	**-.00173**	**.14479**
Stddev	.00080	.00077	.0040	.00292	.00006
%RSD	1.4506	.13727	.26740	169.18	.03964
#1	.05437	.56111	1.4936	-.00379	.14483
#2	.05550	.56002	1.4880	.00034	.14475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-4-b Acquired: 7/26/2017 17:25:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.49472**
Stddev	.00002
%RSD	.00377
#1	.49473
#2	.49470
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2929.3**	**2422.0**	**16965.**	**3431.4**
Stddev	2.7	2.9	92.	5.5
%RSD	.09099	.12179	.54127	.16066
#1	2927.4	2424.1	16900.	3435.3
#2	2931.2	2419.9	17030.	3427.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.559%	100.49%	98.460%	107.74%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 17:28:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49399**	**25.092**	**.49289**	**.51278**	**.51020**
Stddev	.00108	.118	.00212	.00091	.00042
%RSD	.21839	.46971	.43082	.17799	.08158
#1	.49476	25.008	.49439	.51213	.51049
#2	.49323	25.175	.49139	.51342	.50990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51324**	**24.854**	**.50844**	**-.0292**	**.49631**
Stddev	.00089	.048	.00077	.0206	.00056
%RSD	.17398	.19368	.15242	70.44	.11355
#1	.51261	24.820	.50899	-.0437	.49671
#2	.51387	24.888	.50790	-.0147	.49591
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50714**	**.53045**	**24.380**	**26.208**	**.51426**
Stddev	.00064	.00310	.056	.097	.00018
%RSD	.12687	.58378	.23018	.37089	.03552
#1	.50759	.52826	24.341	26.139	.51439
#2	.50668	.53264	24.420	26.276	.51413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 17:28:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.447**	**.52626**	**.50056**	**25.579**	**.50496**
Stddev	.032	.00058	.00089	.046	.00009
%RSD	.12703	.10987	.17698	.18101	.01690
#1	25.424	.52586	.50119	25.547	.50502
#2	25.470	.52667	.49994	25.612	.50490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49604**	**25.151**	**.50642**	**.50167**	**24.097**
Stddev	.00144	.034	.00074	.00377	.034
%RSD	.29121	.13529	.14637	.75063	.14115
#1	.49707	25.175	.50694	.50433	24.073
#2	.49502	25.127	.50590	.49901	24.121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50640**	**.49660**	**.50047**	**.49669**	**.50430**
Stddev	.00008	.00022	.00014	.00297	.00050
%RSD	.01602	.04390	.02869	.59809	.09851
#1	.50634	.49676	.50036	.49879	.50395
#2	.50645	.49645	.50057	.49459	.50465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 17:28:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50609
Stddev	.00115
%RSD	.22650
#1	.50528
#2	.50690
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3382.8	2357.0	16453.	3114.1
Stddev	4.0	2.3	42.	20.9
%RSD	.11793	.09796	.25452	.66968
#1	3385.6	2358.6	16483.	3128.8
#2	3380.0	2355.4	16424.	3099.3

Sample Name: CCB-4130963 Acquired: 7/26/2017 17:31:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**-.00194**	**.00024**	**.00172**	**.00007**
Stddev	.00082	.04084	.00035	.00043	.00002
%RSD	87.146	2099.7	142.88	24.948	35.398
#1	-.00036	-.03082	.00049	.00202	.00005
#2	-.00153	.02693	-.00000	.00141	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.02196**	**-.00001**	**.0093**	**.00014**
Stddev	.00005	.00063	.00013	.0272	.00012
%RSD	1285.4	2.8730	1216.4	292.5	85.591
#1	.00003	.02151	.00008	.0285	.00006
#2	-.00004	.02240	-.00010	-.0099	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00062**	**.00735**	**.04523**	**.00032**
Stddev	.00005	.00051	.00372	.04087	.00050
%RSD	22.497	81.087	50.650	90.356	157.76
#1	.00026	.00027	.00998	.07413	.00068
#2	.00019	.00098	.00471	.01633	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 17:31:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00938**	**.00013**	**.00005**	**.01870**	**.00002**
Stddev	.00033	.00000	.00011	.00685	.00011
%RSD	3.5565	.23008	209.65	36.637	655.72
#1	.00915	.00013	-.00003	.02355	.00010
#2	.00962	.00013	.00014	.01386	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.00330**	**.00000**	**.00534**	**.01195**
Stddev	.00070	.00164	.00084	.00027	.01289
%RSD	84.746	49.662	91924.	4.9743	107.86
#1	-.00131	.00214	.00059	.00553	.02107
#2	-.00033	.00446	-.00059	.00515	.00284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00000**	**-.00018**	**.00141**	**.00036**
Stddev	.00035	.00005	.00017	.00085	.00014
%RSD	65.157	2010.6	92.517	60.157	40.495
#1	-.00029	-.00003	-.00030	.00201	.00046
#2	-.00078	.00003	-.00006	.00081	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 17:31:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00065
Stddev	.00041
%RSD	63.149
#1	.00094
#2	.00036
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3701.9	2387.1	16955.	3124.6
Stddev	2.6	4.4	114.	3.2
%RSD	.06972	.18579	.67528	.10322
#1	3703.7	2390.2	17036.	3122.3
#2	3700.1	2383.9	16874.	3126.9

Sample Name: CCVL-4147888 Acquired: 7/26/2017 17:35:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00555**	**.20276**	**.01481**	**.02128**	**.00221**
Stddev	.00016	.01603	.00221	.00048	.00003
%RSD	2.8956	7.9060	14.905	2.2714	1.1335
#1	.00544	.19143	.01325	.02094	.00223
#2	.00566	.21410	.01637	.02163	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.51317**	**.00215**	**-.0026**	**.00383**
Stddev	.00009	.00305	.00007	.0020	.00004
%RSD	4.1746	.59381	3.1137	78.04	1.0862
#1	.00217	.51101	.00220	-.0012	.00386
#2	.00205	.51532	.00211	-.0040	.00380
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00496**	**.01099**	**.05521**	**.57973**	**.03126**
Stddev	.00037	.00022	.00053	.03089	.00061
%RSD	7.4509	2.0429	.95889	5.3288	1.9412
#1	.00522	.01083	.05484	.60158	.03169
#2	.00470	.01115	.05559	.55789	.03083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 17:35:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21594**	**.00327**	**.00998**	**1.0345**	**.00963**
Stddev	.00011	.00000	.00002	.0092	.00007
%RSD	.05263	.04523	.18124	.89126	.74703
#1	.21586	.00327	.00997	1.0280	.00958
#2	.21602	.00327	.01000	1.0410	.00968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00864**	**.19695**	**.02064**	**.02506**	**.49991**
Stddev	.00044	.00137	.00112	.00004	.00346
%RSD	5.1401	.69384	5.4437	.14780	.69142
#1	.00896	.19792	.02144	.02509	.50235
#2	.00833	.19599	.01985	.02504	.49747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00918**	**.00497**	**.00505**	**.02169**	**.00534**
Stddev	.00017	.00008	.00030	.00117	.00010
%RSD	1.9014	1.7104	6.0326	5.3720	1.9580
#1	.00930	.00503	.00483	.02251	.00541
#2	.00905	.00491	.00527	.02087	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 17:35:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01081
Stddev	.00011
%RSD	1.0040
#1	.01074
#2	.01089
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3725.8	2411.5	17092.	3132.5
Stddev	12.4	7.4	42.	13.9
%RSD	.33370	.30569	.24802	.44423
#1	3734.6	2416.7	17122.	3142.3
#2	3717.0	2406.2	17062.	3122.6

Sample Name: 480-121578-c-5-b Acquired: 7/26/2017 17:38:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**46.850**	**.02034**	**.14376**	**.29445**
Stddev	.00085	.012	.00036	.00029	.00069
%RSD	4782.0	.02506	1.7501	.20376	.23496
#1	-.00058	46.859	.02059	.14396	.29494
#2	.00062	46.842	.02009	.14355	.29396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**760.02**	**.00148**	**.2287**	**.02459**
Stddev	.00001	1.69	.00014	.0219	.00008
%RSD	.36454	.22206	9.6812	9.577	.30726
#1	.00207	758.83	.00158	.2442	.02453
#2	.00206	761.22	.00138	.2132	.02464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06611**	**.12230**	**64.917**	**17.847**	**.05392**
Stddev	.00044	.00123	.197	.043	.00032
%RSD	.67012	1.0095	.30391	.24292	.59360
#1	.06643	.12317	65.056	17.816	.05369
#2	.06580	.12142	64.777	17.878	.05414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-5-b Acquired: 7/26/2017 17:38:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**240.52**	**2.0791**	**.00245**	**1.3986**	**.06777**
Stddev	.47	.0041	.00012	.0013	.00031
%RSD	.19458	.19719	4.7908	.09404	.46330
#1	240.86	2.0820	.00253	1.3996	.06799
#2	240.19	2.0762	.00236	1.3977	.06755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11352**	**7.6838**	**.00124**	**.00075**	**3.5340**
Stddev	.00240	.0162	.00158	.00251	.0273
%RSD	2.1109	.21035	127.00	334.80	.77340
#1	.11521	7.6952	.00013	-.00103	3.5534
#2	.11182	7.6724	.00236	.00253	3.5147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05338**	**.67670**	**.71634**	**-.00152**	**.10065**
Stddev	.00016	.00076	.00131	.00123	.00147
%RSD	.30078	.11280	.18243	80.761	1.4626
#1	.05349	.67724	.71541	-.00239	.10169
#2	.05326	.67616	.71726	-.00065	.09961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-5-b Acquired: 7/26/2017 17:38:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.48594**
Stddev	.00123
%RSD	.25242
#1	.48681
#2	.48508
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2767.4**	**2299.0**	**16295.**	**3293.2**
Stddev	2.2	8.1	44.	9.4
%RSD	.07788	.35406	.27121	.28636
#1	2765.8	2293.2	16263.	3299.9
#2	2768.9	2304.7	16326.	3286.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.217%	95.389%	94.568%	103.40%
Range				

Sample Name: 480-121578-c-6-b Acquired: 7/26/2017 17:42:12 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**90.509**	**.01327**	**.23083**	**.25181**
Stddev	.00012	.643	.00072	.00009	.00029
%RSD	13.110	.71025	5.4312	.03947	.11318
#1	-.00083	90.054	.01378	.23076	.25161
#2	-.00100	90.963	.01276	.23089	.25201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00360**	**175.28**	**.00080**	**.2532**	**.05086**
Stddev	.00008	1.04	.00009	.0024	.00016
%RSD	2.1385	.59404	10.715	.9373	.32106
#1	.00355	174.55	.00086	.2549	.05097
#2	.00366	176.02	.00074	.2515	.05074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12386**	**.32541**	**107.79**	**39.372**	**.17922**
Stddev	.00009	.00209	.56	.005	.00090
%RSD	.06905	.64341	.52136	.01251	.50193
#1	.12380	.32689	107.39	39.375	.17858
#2	.12392	.32392	108.19	39.369	.17985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-6-b Acquired: 7/26/2017 17:42:12 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**104.68**	**1.0559**	**.00255**	**1.3652**	**.11260**
Stddev	.16	.0017	.00000	.0219	.00016
%RSD	.14928	.16304	.10809	1.6018	.14196
#1	104.79	1.0572	.00255	1.3498	.11249
#2	104.57	1.0547	.00255	1.3807	.11272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06337**	**5.4544**	**.00051**	**.00131**	**4.9584**
Stddev	.00099	.0105	.00233	.00427	.0537
%RSD	1.5668	.19246	454.08	326.35	1.0821
#1	.06267	5.4618	-.00114	-.00171	4.9205
#2	.06408	5.4470	.00216	.00433	4.9964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05900**	**1.1174**	**.95606**	**-.00190**	**.14617**
Stddev	.00041	.0050	.00091	.00018	.00071
%RSD	.69532	.45101	.09514	9.5513	.48345
#1	.05871	1.1138	.95671	-.00177	.14667
#2	.05929	1.1209	.95542	-.00203	.14567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-6-b Acquired: 7/26/2017 17:42:12 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.24318**
Stddev	.00130
%RSD	.53462
#1	.24410
#2	.24226
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3077.5**	**2398.5**	**16845.**	**3343.9**
Stddev	6.1	1.3	47.	17.5
%RSD	.19719	.05601	.27952	.52348
#1	3073.2	2397.6	16812.	3356.3
#2	3081.8	2399.5	16878.	3331.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.534%	99.519%	97.761%	104.99%
Range				

Sample Name: 480-121578-c-7-b Acquired: 7/26/2017 17:45:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**59.046**	**.01038**	**.15916**	**.26060**
Stddev	.00102	.137	.00142	.00049	.00015
%RSD	807.87	.23232	13.685	.30517	.05640
#1	-.00084	58.949	.01139	.15951	.26050
#2	.00059	59.143	.00938	.15882	.26070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00258**	**61.228**	**.00140**	**.1671**	**.01862**
Stddev	.00006	.217	.00006	.0032	.00016
%RSD	2.2374	.35490	4.4726	1.916	.85132
#1	.00262	61.074	.00144	.1649	.01874
#2	.00254	61.382	.00136	.1694	.01851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07191**	**.07815**	**59.194**	**16.257**	**.10410**
Stddev	.00053	.00144	.189	.092	.00065
%RSD	.73583	1.8380	.31961	.56732	.62906
#1	.07154	.07916	59.060	16.191	.10457
#2	.07229	.07713	59.328	16.322	.10364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-7-b Acquired: 7/26/2017 17:45:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.630**	**.39683**	**.00153**	**.64709**	**.05730**
Stddev	.078	.00024	.00001	.00272	.00022
%RSD	.34376	.06093	.67587	.42107	.38901
#1	22.575	.39666	.00152	.64516	.05746
#2	22.685	.39700	.00154	.64901	.05715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10623**	**7.0791**	**-.00003**	**.00599**	**4.1750**
Stddev	.00134	.0075	.00131	.00494	.0869
%RSD	1.2654	.10599	4379.6	82.545	2.0806
#1	.10528	7.0738	-.00096	.00949	4.2364
#2	.10718	7.0844	.00090	.00249	4.1136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05545**	**1.2867**	**.67981**	**-.00085**	**.09918**
Stddev	.00008	.0041	.00031	.00078	.00060
%RSD	.13990	.31724	.04598	91.791	.60859
#1	.05551	1.2838	.68003	-.00030	.09876
#2	.05540	1.2896	.67959	-.00140	.09961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-7-b Acquired: 7/26/2017 17:45:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.33983
Stddev	.00386
%RSD	1.1370
#1	.33709
#2	.34256
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3346.5	2502.7	17528.	3396.2
Stddev	1.2	1.1	68.	20.3
%RSD	.03697	.04570	.38600	.59866
#1	3345.7	2501.9	17576.	3410.6
#2	3347.4	2503.5	17480.	3381.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.749%	103.84%	101.73%	106.63%
Range				

Sample Name: 480-121578-a-8-b Acquired: 7/26/2017 17:48:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**76.989**	**.01328**	**.16354**	**.37511**
Stddev	.00031	.314	.00058	.00086	.00007
%RSD	50.867	.40759	4.3866	.52652	.01841
#1	-.00084	76.768	.01287	.16415	.37506
#2	-.00040	77.211	.01369	.16293	.37516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00298**	**208.76**	**.00179**	**.2188**	**.03374**
Stddev	.00001	1.11	.00000	.0011	.00000
%RSD	.39176	.53063	.13378	.5046	.00095
#1	.00297	207.98	.00179	.2180	.03374
#2	.00299	209.55	.00178	.2195	.03374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09227**	**.08047**	**87.504**	**23.302**	**.15173**
Stddev	.00066	.00127	.401	.217	.00007
%RSD	.71571	1.5755	.45835	.92954	.04412
#1	.09274	.07957	87.220	23.149	.15168
#2	.09180	.08136	87.788	23.455	.15177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-8-b Acquired: 7/26/2017 17:48:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.569**	**1.7003**	**.00107**	**2.4390**	**.07885**
Stddev	.107	.0023	.00020	.0028	.00029
%RSD	.18938	.13348	18.525	.11459	.36749
#1	56.644	1.7019	.00093	2.4370	.07905
#2	56.493	1.6987	.00121	2.4410	.07864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10664**	**6.2349**	**-.00206**	**.00153**	**3.8299**
Stddev	.00145	.0022	.00249	.00447	.0466
%RSD	1.3640	.03473	120.71	291.91	1.2160
#1	.10561	6.2334	-.00382	-.00163	3.7969
#2	.10766	6.2364	-.00030	.00469	3.8628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05480**	**1.3244**	**.89759**	**-.00047**	**.12413**
Stddev	.00025	.0030	.00257	.00007	.00068
%RSD	.45898	.22718	.28655	15.766	.54868
#1	.05462	1.3223	.89577	-.00041	.12461
#2	.05498	1.3266	.89940	-.00052	.12365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-8-b Acquired: 7/26/2017 17:48:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.47897**
Stddev	.00023
%RSD	.04754
#1	.47913
#2	.47881
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3116.1**	**2417.0**	**16925.**	**3338.7**
Stddev	.0	1.8	29.	29.6
%RSD	.00137	.07265	.16964	.88736
#1	3116.0	2415.7	16905.	3359.6
#2	3116.1	2418.2	16946.	3317.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.568%	100.28%	98.229%	104.83%
Range				

Sample Name: 480-121494-a-1-a Acquired: 7/26/2017 17:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00404**	**36.556**	**.11613**	**12.788**	F **10.756**
Stddev	.00018	.005	.00047	.001	.009
%RSD	4.4349	.01283	.40365	.00559	.08350
#1	.00391	36.559	.11646	12.789	10.762
#2	.00416	36.553	.11580	12.788	10.749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**147.93**	**.06668**	**.0803**	**.04987**
Stddev	.00006	.18	.00025	.0055	.00054
%RSD	13.866	.11992	.36972	6.868	1.0917
#1	-.00037	147.81	.06685	.0764	.05025
#2	-.00044	148.06	.06650	.0842	.04948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3927**	**10.292**	**341.88**	**2.3074**	**.04255**
Stddev	.0018	.027	.16	.0278	.00046
%RSD	.02811	.26315	.04661	1.2047	1.0906
#1	6.3940	10.273	341.77	2.3270	.04287
#2	6.3915	10.311	342.00	2.2877	.04222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121494-a-1-a Acquired: 7/26/2017 17:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**92.622**	**5.9305**	**.38996**	**12.117**	**2.2771**
Stddev	.126	.0122	.00028	.000	.0004
%RSD	.13558	.20638	.07104	.00314	.01819
#1	92.534	5.9219	.39015	12.117	2.2768
#2	92.711	5.9392	.38976	12.117	2.2774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34340**	**20.712**	**.19200**	**.01019**	**5.4463**
Stddev	.00224	.021	.00241	.00237	.0001
%RSD	.65153	.10134	1.2531	23.221	.00219
#1	.34498	20.727	.19370	.01186	5.4464
#2	.34182	20.697	.19030	.00851	5.4463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54682**	**1.0350**	**.57211**	**-.00238**	**.07493**
Stddev	.00054	.0004	.00276	.00098	.00055
%RSD	.09876	.04294	.48178	41.196	.72943
#1	.54720	1.0353	.57016	-.00168	.07454
#2	.54644	1.0346	.57406	-.00307	.07532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121494-a-1-a Acquired: 7/26/2017 17:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**12.572**
Stddev	.046
%RSD	.36225
#1	12.540
#2	12.604
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3137.3**	**2309.9**	**16614.**	**3298.4**
Stddev	.7	.5	39.	8.6
%RSD	.02355	.02125	.23241	.26126
#1	3137.8	2309.6	16641.	3304.5
#2	3136.8	2310.3	16586.	3292.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.138%	95.843%	96.419%	103.56%
Range				

Sample Name: BLANK Acquired: 7/26/2017 17:55:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00326**	**.00154**	**.01896**	**.00052**
Stddev	.00052	.01571	.00178	.00153	.00003
%RSD	92.865	481.74	114.91	8.0658	6.2959
#1	-.00092	.01437	.00029	.02005	.00055
#2	-.00019	-.00785	.00280	.01788	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02558**	**.00002**	**-.0396**	**-.00000**
Stddev	.00003	.00633	.00009	.0036	.00024
%RSD	395.23	24.743	404.74	9.125	27511.
#1	.00003	.02110	.00009	-.0370	-.00017
#2	-.00002	.03005	-.00004	-.0421	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00080**	**.01859**	**.02092**	**.00164**
Stddev	.00006	.00001	.00162	.02887	.00160
%RSD	13.649	1.1734	8.6995	137.99	97.634
#1	.00049	.00081	.01744	.04133	.00051
#2	.00040	.00080	.01973	.00051	.00277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 17:55:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01007**	**.00029**	**-.00003**	**.00935**	**.00017**
Stddev	.00196	.00002	.00023	.00565	.00009
%RSD	19.506	8.1315	788.18	60.434	55.940
#1	.01146	.00030	-.00019	.01335	.00023
#2	.00868	.00027	.00013	.00535	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00417**	**.00038**	**.00169**	**.00529**
Stddev	.00080	.00291	.00131	.00229	.00752
%RSD	144.25	69.837	341.52	135.75	142.14
#1	.00001	.00623	-.00054	.00007	-.00003
#2	-.00112	.00211	.00131	.00331	.01061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00012**	**.00084**	**.00008**	**.00044**
Stddev	.00034	.00004	.00061	.00008	.00074
%RSD	75.818	31.393	72.597	99.102	167.01
#1	-.00069	.00009	.00127	.00002	-.00008
#2	-.00021	.00014	.00041	.00014	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 17:55:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00080
Stddev	.00000
%RSD	.16452
#1	.00080
#2	.00080
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3718.7	2394.5	17017.	3127.4
Stddev	2.6	4.9	52.	10.9
%RSD	.07067	.20582	.30747	.34922
#1	3716.9	2391.0	16980.	3119.7
#2	3720.6	2398.0	17054.	3135.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.731%	99.352%	98.762%	98.194%
Range				

Sample Name: mb 480-368587/1-a Acquired: 7/26/2017 17:59:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00521**	**-.00059**	**.01260**	**.00035**
Stddev	.00022	.00085	.00032	.00043	.00004
%RSD	83.901	16.295	55.055	3.3774	11.425
#1	-.00042	.00461	-.00036	.01290	.00032
#2	-.00011	.00581	-.00081	.01230	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.05916**	**.00009**	**-.0509**	**-.00010**
Stddev	.00003	.00010	.00004	.0164	.00006
%RSD	59.905	.17284	51.767	32.22	58.382
#1	-.00008	.05923	.00005	-.0393	-.00006
#2	-.00003	.05909	.00012	-.0626	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**.00045**	**.01343**	**.09431**	**-.00053**
Stddev	.00000	.00005	.00119	.01155	.00043
%RSD	.04943	10.789	8.8897	12.248	80.161
#1	.00088	.00048	.01427	.10248	-.00023
#2	.00088	.00041	.01258	.08614	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368587/1-a Acquired: 7/26/2017 17:59:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00644**	**.00083**	**-.00001**	**.06660**	**.00025**
Stddev	.00326	.00004	.00023	.01524	.00004
%RSD	50.632	4.7459	1798.7	22.885	15.272
#1	.00413	.00080	.00015	.05582	.00028
#2	.00874	.00086	-.00018	.07737	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.03065**	**.00057**	**.00152**	**.32470**
Stddev	.00082	.00372	.00015	.00092	.00668
%RSD	1176.0	12.121	26.497	60.406	2.0565
#1	-.00051	.02802	.00046	.00217	.31998
#2	.00065	.03328	.00067	.00087	.32942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04709**	**.00025**	**.00043**	**-.00023**	**.00032**
Stddev	.00082	.00003	.00032	.00038	.00000
%RSD	1.7403	12.964	73.952	166.26	.99195
#1	.04651	.00022	.00066	-.00049	.00032
#2	.04767	.00027	.00021	.00004	.00031
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368587/1-a Acquired: 7/26/2017 17:59:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00157
Stddev	.00024
%RSD	15.281
#1	.00140
#2	.00174
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3760.1	2396.4	17174.	3171.7
Stddev	12.0	5.4	69.	1.8
%RSD	.32002	.22334	.40091	.05746
#1	3768.6	2400.2	17125.	3170.4
#2	3751.6	2392.7	17222.	3172.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.84%	99.432%	99.670%	99.583%
Range				

Sample Name: lcssrm 480-368587/2- Acquired: 7/26/2017 18:02:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50643**	**96.228**	**1.8633**	**.69703**	**3.7964**
Stddev	.00324	.096	.0021	.00013	.0158
%RSD	.63927	.10027	.11330	.01919	.41498
#1	.50414	96.160	1.8618	.69712	3.7853
#2	.50872	96.296	1.8648	.69693	3.8076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99181**	**53.264**	**1.1104**	**1.584**	**2.0793**
Stddev	.00170	.111	.0011	.011	.0002
%RSD	.17188	.20786	.09573	.6825	.00829
#1	.99061	53.185	1.1112	1.592	2.0791
#2	.99302	53.342	1.1097	1.576	2.0794
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.68003**	**.79073**	**145.81**	**30.749**	**.07722**
Stddev	.00494	.00218	.71	.092	.00022
%RSD	.72690	.27527	.48710	.29823	.29071
#1	.67653	.79227	145.31	30.684	.07738
#2	.68352	.78919	146.31	30.814	.07706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: lcssrm 480-368587/2- Acquired: 7/26/2017 18:02:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.379**	**4.1212**	**.57100**	**6.0225**	**1.9310**
Stddev	.076	.0098	.00038	.0126	.0049
%RSD	.25755	.23869	.06689	.20974	.25426
#1	29.325	4.1142	.57127	6.0136	1.9345
#2	29.432	4.1281	.57073	6.0314	1.9275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77472**	**1.3516**	**.72048**	**.93941**	**3.7522**
Stddev	.00287	.0037	.00250	.00270	.0356
%RSD	.37021	.27438	.34703	.28702	.94972
#1	.77269	1.3543	.72225	.94132	3.7270
#2	.77675	1.3490	.71872	.93750	3.7774
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99961**	**1.3746**	**4.6416**	**1.5246**	**1.4031**
Stddev	.00042	.0014	.0157	.0008	.0092
%RSD	.04227	.09789	.33711	.05284	.65654
#1	.99991	1.3755	4.6305	1.5240	1.3966
#2	.99931	1.3736	4.6527	1.5252	1.4096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcssrm 480-368587/2- Acquired: 7/26/2017 18:02:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.8752**
Stddev	.0072
%RSD	.25140
#1	2.8701
#2	2.8803
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3208.0**	**2718.2**	**19358.**	**3749.9**
Stddev	6.1	5.8	30.	6.9
%RSD	.19055	.21275	.15667	.18397
#1	3203.7	2714.1	19380.	3754.8
#2	3212.3	2722.3	19337.	3745.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.033%	112.78%	112.35%	117.74%
Range				

Sample Name: 480-121506-c-16-b Acquired: 7/26/2017 18:05:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**70.037**	**.02812**	**.16384**	**.40392**
Stddev	.00004	.144	.00052	.00046	.00036
%RSD	6.6236	.20552	1.8358	.27837	.08896
#1	-.00055	69.936	.02775	.16417	.40367
#2	-.00060	70.139	.02848	.16352	.40418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00253**	F **1020.8**	**.00226**	**.1895**	**.03596**
Stddev	.00001	9.4	.00008	.0267	.00032
%RSD	.36541	.91610	3.3307	14.11	.89993
#1	.00253	1014.2	.00231	.1706	.03619
#2	.00254	1027.4	.00220	.2084	.03573
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3013**	**1.1244**	**71.699**	**25.285**	**.24085**
Stddev	.0010	.0042	.370	.277	.00378
%RSD	.07887	.37255	.51545	1.0964	1.5710
#1	1.3006	1.1215	71.437	25.089	.23818
#2	1.3020	1.1274	71.960	25.481	.24353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-16-b Acquired: 7/26/2017 18:05:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**338.91**	**1.7811**	**.00471**	**2.5055**	**1.7555**
Stddev	.15	.0024	.00028	.0057	.0046
%RSD	.04435	.13424	5.9005	.22937	.26033
#1	339.02	1.7794	.00491	2.5014	1.7523
#2	338.80	1.7828	.00451	2.5095	1.7588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39144**	**3.9306**	**.00398**	**-.00128**	**3.8814**
Stddev	.00225	.0004	.00066	.00126	.0272
%RSD	.57386	.00970	16.628	98.202	.70000
#1	.38985	3.9309	.00351	-.00217	3.9006
#2	.39302	3.9304	.00445	-.00039	3.8622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17588**	**1.3414**	**.84448**	**-.00035**	**.12728**
Stddev	.00085	.0059	.01305	.00034	.00077
%RSD	.48601	.44143	1.5455	95.972	.60106
#1	.17528	1.3373	.83525	-.00059	.12674
#2	.17648	1.3456	.85371	-.00011	.12782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-16-b Acquired: 7/26/2017 18:05:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.42694**
Stddev	.00152
%RSD	.35581
#1	.42802
#2	.42587
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2667.6**	**2235.7**	**15842.**	**3258.4**
Stddev	3.5	1.5	52.	27.7
%RSD	.13261	.06745	.32918	.85061
#1	2670.1	2236.7	15806.	3278.0
#2	2665.1	2234.6	15879.	3238.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.540%	92.761%	91.944%	102.31%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:09:22 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49162**	**25.001**	**.48926**	**.51730**	**.51209**
Stddev	.00026	.077	.00096	.00034	.00212
%RSD	.05250	.30943	.19586	.06501	.41443
#1	.49181	24.946	.48994	.51754	.51059
#2	.49144	25.056	.48859	.51706	.51359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51078**	**24.696**	**.50896**	**-.0563**	**.49655**
Stddev	.00162	.032	.00012	.0082	.00059
%RSD	.31628	.13034	.02325	14.59	.11911
#1	.50964	24.673	.50888	-.0505	.49697
#2	.51193	24.719	.50905	-.0621	.49613
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50120**	**.53272**	**24.099**	**26.007**	**.51317**
Stddev	.00094	.00062	.007	.108	.00023
%RSD	.18786	.11707	.02987	.41535	.04573
#1	.50053	.53228	24.104	25.930	.51300
#2	.50186	.53316	24.094	26.083	.51333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:09:22 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.458**	**.52584**	**.49986**	**25.416**	**.50547**
Stddev	.157	.00107	.00034	.047	.00021
%RSD	.61694	.20322	.06707	.18400	.04101
#1	25.347	.52508	.49962	25.383	.50561
#2	25.569	.52660	.50009	25.449	.50532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49714**	**25.169**	**.50682**	**.49917**	**24.031**
Stddev	.00041	.031	.00123	.00394	.048
%RSD	.08184	.12433	.24339	.78969	.19845
#1	.49685	25.147	.50769	.49638	23.997
#2	.49743	25.191	.50594	.50196	24.065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50635**	**.49443**	**.50042**	**.49765**	**.50244**
Stddev	.00121	.00029	.00209	.00002	.00079
%RSD	.23801	.05941	.41841	.00374	.15798
#1	.50720	.49422	.49894	.49763	.50300
#2	.50550	.49463	.50190	.49766	.50188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:09:22 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50129
Stddev	.00015
%RSD	.03074
#1	.50118
#2	.50140
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3384.5	2357.9	16566.	3130.6
Stddev	8.3	2.4	42.	9.8
%RSD	.24531	.10176	.25641	.31152
#1	3378.7	2356.2	16596.	3137.5
#2	3390.4	2359.6	16536.	3123.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:12:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.02411**	**.00103**	**.00510**	**.00015**
Stddev	.00029	.00124	.00113	.00017	.00001
%RSD	59.738	5.1256	109.04	3.3562	5.2573
#1	-.00028	.02324	.00024	.00522	.00014
#2	-.00069	.02499	.00183	.00498	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.02690**	**.00004**	**-.0248**	**-.00001**
Stddev	.00012	.00258	.00007	.0369	.00009
%RSD	436.18	9.6022	172.57	148.9	943.36
#1	-.00011	.02508	-.00001	.0013	.00006
#2	.00006	.02873	.00009	-.0509	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00045**	**.00844**	**.06712**	**-.00051**
Stddev	.00003	.00064	.00036	.03880	.00033
%RSD	10.013	142.99	4.2926	57.804	64.457
#1	.00026	.00090	.00869	.03969	-.00075
#2	.00030	-.00000	.00818	.09455	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:12:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01263**	**.00016**	**.00001**	**.01833**	**-.00005**
Stddev	.00134	.00003	.00019	.01805	.00025
%RSD	10.604	16.729	1846.8	98.482	475.80
#1	.01358	.00014	-.00012	.00556	.00012
#2	.01169	.00017	.00014	.03109	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.00276**	**.00139**	**.00392**	**.01716**
Stddev	.00038	.00238	.00118	.00326	.01147
%RSD	57.586	86.174	84.810	83.043	66.843
#1	-.00093	.00444	.00222	.00162	.00905
#2	-.00039	.00108	.00056	.00622	.02527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00011**	**.00065**	**-.00033**	**-.00057**
Stddev	.00002	.00008	.00071	.00069	.00009
%RSD	11.639	68.020	107.68	207.14	15.836
#1	.00016	.00017	.00016	-.00082	-.00051
#2	.00013	.00006	.00115	.00016	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:12:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00061
Stddev	.00002
%RSD	3.5595
#1	.00059
#2	.00062
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3700.7	2380.5	16862.	3137.8
Stddev	1.6	1.0	23.	23.2
%RSD	.04326	.04114	.13674	.73950
#1	3699.5	2381.2	16845.	3154.3
#2	3701.8	2379.8	16878.	3121.4

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:16:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**.21297**	**.01401**	**.02456**	**.00223**
Stddev	.00029	.00435	.00050	.00018	.00004
%RSD	6.0079	2.0408	3.5936	.73412	1.7416
#1	.00504	.21604	.01366	.02443	.00221
#2	.00463	.20990	.01437	.02469	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.52357**	**.00218**	**-.0248**	**.00379**
Stddev	.00005	.00125	.00003	.0110	.00015
%RSD	2.4834	.23964	1.3634	44.14	3.9909
#1	.00214	.52268	.00220	-.0171	.00390
#2	.00206	.52446	.00216	-.0326	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	**.01105**	**.05707**	**.59160**	**.03071**
Stddev	.00044	.00132	.00076	.00490	.00149
%RSD	9.0423	11.969	1.3293	.82828	4.8369
#1	.00455	.01199	.05653	.59506	.03176
#2	.00518	.01012	.05761	.58813	.02966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:16:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21478**	**.00327**	**.01001**	**1.0333**	**.00993**
Stddev	.00610	.00001	.00019	.0122	.00010
%RSD	2.8398	.29809	1.8942	1.1795	1.0090
#1	.21910	.00328	.00988	1.0419	.01000
#2	.21047	.00327	.01014	1.0247	.00986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01000**	**.19595**	**.02134**	**.02594**	**.50256**
Stddev	.00059	.00169	.00111	.00242	.00425
%RSD	5.8992	.86226	5.1997	9.3279	.84559
#1	.00959	.19714	.02213	.02765	.50556
#2	.01042	.19475	.02056	.02423	.49955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00955**	**.00501**	**.00532**	**.02127**	**.00488**
Stddev	.00042	.00007	.00019	.00113	.00040
%RSD	4.3638	1.4862	3.5991	5.3191	8.2772
#1	.00925	.00496	.00545	.02047	.00517
#2	.00984	.00506	.00518	.02207	.00460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:16:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01133
Stddev	.00031
%RSD	2.7511
#1	.01111
#2	.01155
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3711.1	2401.4	16985.	3128.9
Stddev	4.4	2.2	88.	20.8
%RSD	.11764	.09207	.51876	.66319
#1	3708.0	2399.9	17047.	3114.2
#2	3714.2	2403.0	16922.	3143.5

Sample Name: 480-121506-a-17-a Acquired: 7/26/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	**81.926**	**.03723**	**.17686**	**.60012**
Stddev	.00032	.354	.00248	.00025	.00521
%RSD	18.471	.43195	6.6696	.14121	.86820
#1	.00194	82.176	.03548	.17669	.59644
#2	.00149	81.676	.03899	.17704	.60381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00313**	F **1120.6**	**.03594**	**.2485**	**.04620**
Stddev	.00002	.1	.00021	.0089	.00005
%RSD	.56998	.01243	.57074	3.592	.10630
#1	.00315	1120.7	.03608	.2548	.04624
#2	.00312	1120.5	.03579	.2422	.04617
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54086**	**.54463**	**91.791**	**28.814**	**.24745**
Stddev	.00074	.00056	.622	.105	.00056
%RSD	.13718	.10264	.67718	.36341	.22821
#1	.54139	.54424	92.231	28.888	.24705
#2	.54034	.54503	91.352	28.740	.24785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-a-17-a Acquired: 7/26/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**419.25**	**2.6762**	**.00754**	**1.5109**	**.54398**
Stddev	1.44	.0078	.00017	.0022	.00110
%RSD	.34461	.29283	2.2273	.14344	.20223
#1	418.23	2.6707	.00765	1.5094	.54320
#2	420.27	2.6818	.00742	1.5124	.54476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.31548**	**7.7562**	**.00151**	**-.00062**	**5.1685**
Stddev	.00056	.0053	.00015	.00482	.0909
%RSD	.17687	.06805	10.210	776.58	1.7579
#1	.31588	7.7524	.00140	-.00403	5.2327
#2	.31509	7.7599	.00162	.00279	5.1042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11592**	**8.9135**	**1.0027**	**.00028**	**.15863**
Stddev	.00139	.0557	.0056	.00003	.00083
%RSD	1.1960	.62466	.55556	10.055	.52341
#1	.11494	8.9528	.99876	.00026	.15804
#2	.11690	8.8741	1.0066	.00030	.15921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-a-17-a Acquired: 7/26/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.48755**
Stddev	.00243
%RSD	.49764
#1	.48584
#2	.48927
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2574.5**	**2230.2**	**15859.**	**3298.1**
Stddev	.2	2.1	83.	13.7
%RSD	.00835	.09353	.52385	.41621
#1	2574.6	2231.7	15917.	3288.4
#2	2574.3	2228.7	15800.	3307.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.043%	92.536%	92.037%	103.55%
Range				

Sample Name: 121506-a-18-a Acquired: 7/26/2017 18:23:04 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**99.192**	**.04153**	**.17846**	**.71528**
Stddev	.00026	.060	.00220	.00028	.00051
%RSD	10.221	.06055	5.2948	.15436	.07115
#1	.00233	99.235	.03998	.17827	.71564
#2	.00269	99.150	.04309	.17866	.71492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00395**	**614.53**	**.00747**	**.2942**	**.05916**
Stddev	.00014	4.87	.00003	.0051	.00057
%RSD	3.5028	.79198	.39831	1.729	.96061
#1	.00385	617.97	.00750	.2978	.05876
#2	.00405	611.08	.00745	.2906	.05956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28773**	**.45400**	**127.68**	**30.043**	**.28269**
Stddev	.00138	.00031	.14	.008	.00220
%RSD	.47953	.06878	.11315	.02754	.77923
#1	.28870	.45422	127.78	30.048	.28425
#2	.28675	.45378	127.57	30.037	.28113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-a Acquired: 7/26/2017 18:23:04 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**217.46**	**2.4634**	**.01058**	**1.3380**	**.51626**
Stddev	.06	.0024	.00001	.0075	.00021
%RSD	.02595	.09886	.08426	.56191	.04104
#1	217.42	2.4617	.01057	1.3434	.51611
#2	217.50	2.4651	.01058	1.3327	.51641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77425**	**3.8492**	**-.00044**	**-.00001**	**4.2244**
Stddev	.00223	.0027	.00132	.00217	.0841
%RSD	.28785	.07119	301.66	18718.	1.9897
#1	.77268	3.8512	-.00138	.00152	4.2838
#2	.77583	3.8473	.00050	-.00155	4.1650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09990**	**2.0770**	**1.2578**	**-.00373**	**.19615**
Stddev	.00140	.0049	.0034	.00072	.00082
%RSD	1.4006	.23453	.27340	19.276	.41993
#1	.10089	2.0805	1.2602	-.00322	.19557
#2	.09891	2.0736	1.2554	-.00424	.19674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-a Acquired: 7/26/2017 18:23:04 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0275**
Stddev	.0059
%RSD	.57545
#1	1.0234
#2	1.0317
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2778.6**	**2372.7**	**16801.**	**3410.6**
Stddev	3.1	1.7	21.	15.4
%RSD	.10991	.07212	.12785	.45029
#1	2780.7	2373.9	16816.	3399.8
#2	2776.4	2371.4	16786.	3421.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.517%	98.446%	97.508%	107.09%
Range				

Sample Name: 121506-a-18-aSD@5 Acquired: 7/26/2017 18:26:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**21.464**	**.00970**	**.04287**	**.16135**
Stddev	.00138	.033	.00083	.00035	.00010
%RSD	10408.	.15311	8.5958	.80689	.06047
#1	.00096	21.441	.01029	.04312	.16142
#2	-.00099	21.487	.00911	.04263	.16128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**141.31**	**.00170**	**.0333**	**.01149**
Stddev	.00000	.34	.00007	.0054	.00008
%RSD	.07713	.24075	3.9253	16.31	.72353
#1	.00083	141.07	.00175	.0371	.01155
#2	.00083	141.55	.00166	.0294	.01143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06462**	**.09521**	**28.968**	**6.4448**	**.06067**
Stddev	.00092	.00028	.072	.0401	.00076
%RSD	1.4231	.29584	.24948	.62217	1.2466
#1	.06527	.09541	28.917	6.4164	.06121
#2	.06397	.09501	29.019	6.4731	.06014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-aSD@5 Acquired: 7/26/2017 18:26:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.944**	**.55307**	**.00224**	**.29792**	**.10202**
Stddev	.046	.00040	.00004	.00187	.00007
%RSD	.09849	.07152	1.7828	.62923	.07157
#1	46.912	.55335	.00227	.29925	.10207
#2	46.977	.55279	.00221	.29660	.10197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15532**	**.81847**	**.00012**	**-.00147**	**.93445**
Stddev	.00181	.00343	.00062	.00204	.00126
%RSD	1.1685	.41920	501.84	138.99	.13479
#1	.15660	.82089	-.00032	-.00003	.93534
#2	.15403	.81604	.00057	-.00291	.93356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01946**	**.45230**	**.27884**	**.00096**	**.04305**
Stddev	.00024	.00027	.00237	.00044	.00041
%RSD	1.2275	.06071	.85019	45.278	.95877
#1	.01929	.45211	.28051	.00127	.04334
#2	.01963	.45250	.27716	.00065	.04276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-aSD@5 Acquired: 7/26/2017 18:26:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.24083**
Stddev	.00119
%RSD	.49251
#1	.24167
#2	.23999
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3247.3**	**2341.0**	**16546.**	**3196.6**
Stddev	.5	3.7	17.	16.2
%RSD	.01642	.15838	.10440	.50729
#1	3247.7	2343.7	16559.	3208.0
#2	3246.9	2338.4	16534.	3185.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.088%	97.134%	96.029%	100.37%
Range				

Sample Name: 121506-a-18-a PDS Acquired: 7/26/2017 18:29:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09848**	**116.16**	**.41032**	**.53555**	**1.0778**
Stddev	.00040	.52	.00106	.00109	.0001
%RSD	.40654	.44621	.25797	.20423	.01001
#1	.09820	116.53	.41107	.53478	1.0779
#2	.09876	115.80	.40957	.53633	1.0778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37197**	**624.34**	**.39625**	**.2970**	**.46391**
Stddev	.00069	.55	.00029	.0002	.00011
%RSD	.18534	.08762	.07382	.0706	.02376
#1	.37246	623.95	.39604	.2972	.46383
#2	.37148	624.72	.39646	.2969	.46398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.63831**	**.85212**	**142.52**	**49.150**	**.67201**
Stddev	.00241	.00222	.24	.025	.00173
%RSD	.37770	.26025	.17146	.04997	.25702
#1	.63660	.85369	142.70	49.133	.67323
#2	.64001	.85055	142.35	49.168	.67079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-a PDS Acquired: 7/26/2017 18:29:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**233.80**	**2.8019**	**.36228**	**20.411**	**.91598**
Stddev	.79	.0106	.00110	.055	.00063
%RSD	.33864	.37654	.30392	.26983	.06850
#1	233.24	2.7944	.36150	20.450	.91554
#2	234.36	2.8093	.36306	20.372	.91643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1816**	**3.8018**	**.38781**	**.37790**	**5.3095**
Stddev	.0020	.0083	.00332	.00298	.0859
%RSD	.16748	.21747	.85545	.78805	1.6176
#1	1.1802	3.7959	.38546	.37579	5.2488
#2	1.1830	3.8076	.39015	.38000	5.3702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09969**	**2.4092**	**1.6409**	**.38983**	**.56656**
Stddev	.00052	.0077	.0223	.00025	.00241
%RSD	.51963	.32042	1.3613	.06529	.42466
#1	.10006	2.4146	1.6251	.38965	.56486
#2	.09933	2.4037	1.6567	.39001	.56826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-a PDS Acquired: 7/26/2017 18:29:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.3627
Stddev	.0090
%RSD	.65718
#1	1.3563
#2	1.3690
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2744.2	2360.9	16584.	3411.1
Stddev	2.8	3.4	61.	5.3
%RSD	.10122	.14500	.36581	.15603
#1	2746.2	2363.3	16627.	3407.3
#2	2742.2	2358.5	16541.	3414.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.595%	97.957%	96.246%	107.10%
Range				

Sample Name: 121506-a-18-b ms Acquired: 7/26/2017 18:33:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06549**	**126.45**	**.28485**	**.46597**	**.99206**
Stddev	.00005	.90	.00027	.00113	.00901
%RSD	.08202	.71311	.09519	.24204	.90865
#1	.06552	125.82	.28466	.46517	.98569
#2	.06545	127.09	.28505	.46677	.99844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25873**	**416.53**	**.27197**	**.2445**	**.31817**
Stddev	.00150	.27	.00054	.0068	.00097
%RSD	.57824	.06514	.20014	2.776	.30577
#1	.25767	416.72	.27159	.2493	.31886
#2	.25979	416.34	.27236	.2397	.31748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49537**	**.62529**	**107.59**	**54.169**	**.51688**
Stddev	.00286	.00528	1.11	.502	.00560
%RSD	.57728	.84376	1.0283	.92764	1.0842
#1	.49335	.62903	106.81	53.814	.51292
#2	.49739	.62156	108.37	54.525	.52084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-b ms Acquired: 7/26/2017 18:33:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**175.11**	**2.0465**	**.24531**	**14.451**	**.66520**
Stddev	.57	.0057	.00008	.113	.00015
%RSD	.32765	.28068	.03245	.77989	.02234
#1	175.51	2.0506	.24537	14.371	.66509
#2	174.70	2.0425	.24526	14.530	.66530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.85047**	**15.882**	**.19284**	**.25561**	**3.3009**
Stddev	.00037	.007	.00060	.00340	.0243
%RSD	.04313	.04677	.30966	1.3287	.73471
#1	.85021	15.877	.19242	.25321	3.2837
#2	.85073	15.887	.19326	.25801	3.3180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35538**	**1.7703**	**1.7687**	**.26665**	**.46276**
Stddev	.00107	.0149	.0038	.00136	.00190
%RSD	.30068	.84288	.21423	.50987	.40958
#1	.35614	1.7598	1.7660	.26761	.46142
#2	.35463	1.7809	1.7714	.26569	.46410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-b ms Acquired: 7/26/2017 18:33:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0502
Stddev	.0039
%RSD	.36792
#1	1.0475
#2	1.0529
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2867.0	2377.7	16632.	3333.3
Stddev	3.0	4.7	22.	18.6
%RSD	.10342	.19682	.12995	.55825
#1	2869.1	2381.0	16647.	3346.4
#2	2864.9	2374.4	16617.	3320.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.888%	98.656%	96.526%	104.66%
Range				

Sample Name: 121506-a-18-c msd Acquired: 7/26/2017 18:36:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09097	158.68	.39113	.62015	1.2045
Stddev	.00167	.17	.00201	.00006	.0007
%RSD	1.8330	.10610	.51466	.00917	.05635
#1	.09215	158.80	.38970	.62019	1.2040
#2	.08979	158.57	.39255	.62011	1.2050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.34274	F 965.02	.37257	.3510	.44953
Stddev	.00174	13.02	.00039	.0030	.00026
%RSD	.50869	1.3493	.10430	.8419	.05775
#1	.34398	974.23	.37285	.3489	.44935
#2	.34151	955.81	.37230	.3531	.44971
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.62582	.79938	125.58	71.689	.70521
Stddev	.00492	.00076	.91	.074	.00054
%RSD	.78573	.09568	.72199	.10361	.07665
#1	.62930	.79884	126.22	71.741	.70483
#2	.62235	.79992	124.94	71.636	.70559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-c msd Acquired: 7/26/2017 18:36:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**350.16**	**3.2030**	**.33179**	**19.995**	**.87354**
Stddev	.97	.0111	.00090	.037	.00117
%RSD	.27785	.34614	.27257	.18337	.13450
#1	350.85	3.2108	.33115	20.021	.87437
#2	349.47	3.1951	.33243	19.969	.87271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0703**	**22.556**	**.28832**	**.34422**	**5.1112**
Stddev	.0008	.004	.00168	.00692	.0323
%RSD	.07155	.01983	.58406	2.0091	.63263
#1	1.0698	22.560	.28951	.34911	5.1341
#2	1.0709	22.553	.28713	.33933	5.0883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49989**	**2.4382**	**2.1803**	**.36731**	**.61990**
Stddev	.00030	.0028	.0153	.00060	.00374
%RSD	.06022	.11374	.69968	.16201	.60331
#1	.50010	2.4402	2.1910	.36773	.62255
#2	.49968	2.4363	2.1695	.36689	.61726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-c msd Acquired: 7/26/2017 18:36:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.2170**
Stddev	.0084
%RSD	.69119
#1	1.2230
#2	1.2111
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2552.9**	**2316.2**	**16259.**	**3425.4**
Stddev	.8	2.3	68.	20.8
%RSD	.03289	.10041	.41926	.60682
#1	2553.4	2317.8	16211.	3410.7
#2	2552.3	2314.5	16307.	3440.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.464%	96.102%	94.361%	107.55%
Range				

Sample Name: 480-121506-a-19-a Acquired: 7/26/2017 18:40:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**76.389**	**.03421**	**.14275**	**1.7565**
Stddev	.00040	.138	.00372	.00040	.0046
%RSD	44.476	.18127	10.865	.28328	.26437
#1	-.00062	76.487	.03683	.14303	1.7532
#2	-.00120	76.291	.03158	.14246	1.7598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00297**	**762.79**	**.00216**	**.2377**	**.05103**
Stddev	.00001	2.16	.00010	.0253	.00020
%RSD	.24222	.28323	4.6984	10.66	.39772
#1	.00296	764.32	.00223	.2198	.05118
#2	.00297	761.26	.00209	.2557	.05089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49087**	**1.0188**	**95.664**	**24.634**	**.21167**
Stddev	.00258	.0037	.018	.079	.00025
%RSD	.52474	.35986	.01910	.32194	.11750
#1	.49269	1.0162	95.651	24.578	.21150
#2	.48905	1.0214	95.677	24.690	.21185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-a-19-a Acquired: 7/26/2017 18:40:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**232.09**	**2.7880**	**.00854**	**1.1379**	**1.1349**
Stddev	.17	.0008	.00013	.0113	.0004
%RSD	.07125	.02770	1.5125	.98920	.03388
#1	232.21	2.7875	.00864	1.1459	1.1351
#2	231.97	2.7886	.00845	1.1300	1.1346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.70774**	**10.851**	**.00224**	**-.00080**	**2.9572**
Stddev	.00018	.008	.00003	.00445	.0768
%RSD	.02604	.07415	1.2131	557.24	2.5959
#1	.70787	10.857	.00226	.00235	3.0115
#2	.70761	10.845	.00222	-.00395	2.9030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11115**	F **14.175**	**1.0001**	**.00069**	**.21315**
Stddev	.00074	.006	.0078	.00025	.00049
%RSD	.66937	.04400	.77980	36.986	.22963
#1	.11167	14.170	1.0056	.00051	.21349
#2	.11062	14.179	.99455	.00087	.21280
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121506-a-19-a Acquired: 7/26/2017 18:40:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.62267
Stddev	.00708
%RSD	1.1376
#1	.62768
#2	.61766
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2742.2	2314.1	16335.	3354.1
Stddev	9.6	9.2	24.	11.8
%RSD	.34994	.39649	.14542	.35253
#1	2749.0	2320.6	16318.	3362.5
#2	2735.4	2307.6	16352.	3345.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.541%	96.017%	94.804%	105.31%
Range				

Sample Name: 480-121506-c-20-b Acquired: 7/26/2017 18:43:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**40.871**	**.03997**	**.12128**	**1.3227**
Stddev	.00054	.227	.00184	.00075	.0057
%RSD	37.199	.55464	4.5974	.61695	.42766
#1	-.00107	41.032	.03867	.12075	1.3267
#2	-.00184	40.711	.04127	.12181	1.3187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	F **1584.6**	**.00354**	**.2387**	**.03854**
Stddev	.00004	9.1	.00000	.0306	.00003
%RSD	2.7273	.57391	.13869	12.81	.07441
#1	.00157	1591.1	.00354	.2171	.03852
#2	.00163	1578.2	.00354	.2604	.03856
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2648**	**2.2031**	**157.76**	**15.843**	**.10409**
Stddev	.0350	.0032	.37	.101	.00115
%RSD	.81958	.14726	.23218	.63716	1.1065
#1	4.2401	2.2008	158.02	15.914	.10491
#2	4.2895	2.2054	157.51	15.771	.10328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-20-b Acquired: 7/26/2017 18:43:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**285.70**	**2.5938**	**.00935**	**1.6608**	**4.2084**
Stddev	1.25	.0127	.00024	.0038	.0043
%RSD	.43593	.49146	2.6049	.22620	.10206
#1	284.82	2.5848	.00918	1.6635	4.2114
#2	286.58	2.6029	.00952	1.6582	4.2053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75764**	**12.330**	**.00968**	**-.00233**	**3.9401**
Stddev	.00238	.003	.00239	.00840	.0334
%RSD	.31449	.02779	24.746	359.93	.84673
#1	.75596	12.327	.00798	-.00828	3.9637
#2	.75933	12.332	.01137	.00361	3.9165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22810**	F **22.584**	**.57175**	**-.00084**	**.13704**
Stddev	.00030	.125	.00393	.00027	.00061
%RSD	.13201	.55335	.68663	32.128	.44324
#1	.22789	22.495	.56898	-.00103	.13661
#2	.22831	22.672	.57453	-.00065	.13747
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121506-c-20-b Acquired: 7/26/2017 18:43:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0834**
Stddev	.0148
%RSD	1.3631
#1	1.0730
#2	1.0938
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2491.7**	**2175.1**	**15474.**	**3232.5**
Stddev	1.9	3.7	127.	7.3
%RSD	.07471	.17051	.81767	.22454
#1	2493.0	2177.7	15564.	3227.4
#2	2490.4	2172.5	15385.	3237.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	66.824%	90.248%	89.805%	101.49%
Range				

Sample Name: 480-121506-c-21-d Acquired: 7/26/2017 18:47:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00195**	**160.42**	**.04746**	**.24157**	**.87219**
Stddev	.00027	.23	.00042	.00004	.00453
%RSD	13.956	.14420	.88167	.01451	.51942
#1	-.00176	160.58	.04776	.24155	.87539
#2	-.00215	160.26	.04717	.24160	.86899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00620**	**193.90**	**.00341**	**.2910**	**.07037**
Stddev	.00004	.77	.00006	.0196	.00000
%RSD	.59007	.39508	1.6283	6.725	.00116
#1	.00623	194.44	.00345	.3049	.07037
#2	.00618	193.36	.00338	.2772	.07037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51016**	**.52019**	**176.82**	**45.540**	**.33860**
Stddev	.00165	.00325	1.04	.230	.00240
%RSD	.32353	.62424	.58921	.50514	.70988
#1	.51133	.51790	177.56	45.703	.34030
#2	.50900	.52249	176.09	45.378	.33690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-d Acquired: 7/26/2017 18:47:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**81.272**	**3.7674**	**.00724**	**1.9320**	**.64120**
Stddev	.010	.0090	.00014	.0075	.00047
%RSD	.01242	.23845	1.8656	.38871	.07347
#1	81.279	3.7738	.00734	1.9373	.64154
#2	81.265	3.7611	.00715	1.9267	.64087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3909**	**4.7419**	**.00035**	**.00628**	**6.1392**
Stddev	.0022	.0026	.00177	.00397	.0010
%RSD	.02989	.05376	502.84	63.291	.01670
#1	7.3925	4.7437	.00161	.00909	6.1399
#2	7.3894	4.7401	-.00090	.00347	6.1385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09555**	**.83856**	**.82472**	**.00080**	**.28851**
Stddev	.00092	.00014	.00153	.00033	.00030
%RSD	.96441	.01643	.18585	41.429	.10257
#1	.09620	.83865	.82580	.00103	.28830
#2	.09490	.83846	.82363	.00057	.28872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-d Acquired: 7/26/2017 18:47:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.76445
Stddev	.00129
%RSD	.16875
#1	.76536
#2	.76354
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3023.3	2530.1	17680.	3541.1
Stddev	4.8	4.3	85.	14.3
%RSD	.15932	.17175	.47965	.40331
#1	3019.9	2527.1	17740.	3531.0
#2	3026.7	2533.2	17620.	3551.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.080%	104.98%	102.61%	111.18%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:50:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49511**	**25.046**	**.49365**	**.51410**	**.51284**
Stddev	.00244	.029	.00115	.00183	.00008
%RSD	.49377	.11414	.23338	.35653	.01634
#1	.49338	25.026	.49283	.51539	.51290
#2	.49684	25.066	.49446	.51280	.51278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51329**	**24.812**	**.50895**	**-.0387**	**.49752**
Stddev	.00230	.100	.00205	.0118	.00028
%RSD	.44894	.40362	.40265	30.60	.05645
#1	.51492	24.883	.51040	-.0303	.49772
#2	.51166	24.741	.50750	-.0471	.49732
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50339**	**.53485**	**24.165**	**26.185**	**.51533**
Stddev	.00113	.00376	.067	.128	.00105
%RSD	.22386	.70369	.27793	.48909	.20425
#1	.50259	.53751	24.213	26.275	.51608
#2	.50418	.53219	24.118	26.094	.51459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:50:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.587**	**.52851**	**.50213**	**25.576**	**.50620**
Stddev	.012	.00005	.00028	.118	.00095
%RSD	.04753	.00984	.05599	.46149	.18722
#1	25.578	.52855	.50193	25.659	.50687
#2	25.595	.52847	.50233	25.493	.50553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49808**	**25.183**	**.50886**	**.50010**	**23.993**
Stddev	.00209	.045	.00094	.00659	.070
%RSD	.41891	.17963	.18486	1.3186	.29072
#1	.49956	25.215	.50952	.49543	24.042
#2	.49661	25.151	.50819	.50476	23.944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51034**	**.49748**	**.50171**	**.49979**	**.50397**
Stddev	.00021	.00179	.00029	.00085	.00115
%RSD	.04127	.35915	.05725	.16920	.22749
#1	.51019	.49875	.50151	.49919	.50316
#2	.51048	.49622	.50191	.50038	.50478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:50:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50599
Stddev	.00101
%RSD	.19965
#1	.50670
#2	.50527
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3377.1	2355.2	16454.	3125.4
Stddev	10.4	9.3	88.	16.8
%RSD	.30832	.39303	.53341	.53667
#1	3369.7	2348.6	16516.	3113.6
#2	3384.5	2361.7	16392.	3137.3

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:53:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00620**	**.00071**	**.00212**	**.00011**
Stddev	.00038	.00678	.00025	.00038	.00001
%RSD	1308.5	109.40	35.039	17.986	12.038
#1	-.00030	.01100	.00054	.00239	.00010
#2	.00024	.00140	.00089	.00185	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.04975**	**.00006**	**-.0235**	**-.00002**
Stddev	.00000	.00362	.00014	.0403	.00009
%RSD	.48387	7.2739	215.50	171.4	467.33
#1	-.00004	.04719	-.00003	.0050	.00005
#2	-.00004	.05230	.00016	-.0520	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**-.00006**	**.00963**	**.05830**	**.00050**
Stddev	.00031	.00074	.00117	.00128	.00005
%RSD	68.939	1159.0	12.161	2.2030	10.027
#1	.00023	-.00059	.01046	.05921	.00046
#2	.00067	.00046	.00881	.05739	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:53:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01580**	**.00023**	**.00011**	**.02191**	**.00022**
Stddev	.00101	.00015	.00006	.00436	.00020
%RSD	6.4078	65.322	55.096	19.884	89.498
#1	.01509	.00033	.00015	.01883	.00036
#2	.01652	.00012	.00007	.02499	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00165**	**.00132**	**.00582**	**.02208**
Stddev	.00060	.00101	.00026	.00164	.01013
%RSD	999.32	60.991	19.385	28.159	45.859
#1	-.00048	.00236	.00151	.00466	.01492
#2	.00036	.00094	.00114	.00697	.02924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00048**	**.00016**	**.00186**	**.00040**
Stddev	.00042	.00001	.00024	.00082	.00025
%RSD	127.60	2.2865	150.82	44.136	62.605
#1	.00003	.00047	-.00001	.00128	.00058
#2	.00063	.00049	.00033	.00244	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:53:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00022
Stddev	.00025
%RSD	112.63
#1	.00040
#2	.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3702.5	2382.3	16893.	3105.7
Stddev	10.2	6.5	29.	10.1
%RSD	.27641	.27201	.17318	.32387
#1	3695.2	2377.7	16914.	3098.6
#2	3709.7	2386.9	16873.	3112.9

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:57:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00560**	**.21938**	**.01360**	**.02207**	**.00222**
Stddev	.00018	.01596	.00118	.00024	.00001
%RSD	3.2791	7.2752	8.6781	1.1057	.28107
#1	.00547	.23067	.01277	.02224	.00221
#2	.00573	.20810	.01444	.02190	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.54920**	**.00201**	**-.0243**	**.00395**
Stddev	.00009	.00454	.00004	.0333	.00017
%RSD	4.5984	.82676	1.7719	137.2	4.1828
#1	.00193	.55241	.00199	-.0478	.00383
#2	.00206	.54599	.00204	-.0007	.00407
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00474**	**.01106**	**.05846**	**.51936**	**.03207**
Stddev	.00034	.00134	.00003	.05742	.00101
%RSD	7.2022	12.072	.04406	11.056	3.1452
#1	.00450	.01201	.05844	.55996	.03278
#2	.00498	.01012	.05848	.47876	.03135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:57:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22450**	**.00331**	**.00993**	**1.0379**	**.00986**
Stddev	.00762	.00004	.00007	.0095	.00011
%RSD	3.3939	1.1950	.65976	.91212	1.1118
#1	.21911	.00333	.00988	1.0312	.00993
#2	.22989	.00328	.00998	1.0446	.00978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01070**	**.19901**	**.01925**	**.02652**	**.50529**
Stddev	.00154	.00326	.00036	.00110	.00443
%RSD	14.363	1.6369	1.8717	4.1448	.87681
#1	.00961	.20132	.01951	.02730	.50215
#2	.01179	.19671	.01900	.02574	.50842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00916**	**.00543**	**.00510**	**.02076**	**.00539**
Stddev	.00038	.00004	.00023	.00090	.00017
%RSD	4.0940	.67412	4.5518	4.3409	3.2062
#1	.00943	.00540	.00527	.02140	.00551
#2	.00890	.00546	.00494	.02012	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:57:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01106
Stddev	.00012
%RSD	1.0670
#1	.01114
#2	.01097
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3711.3	2400.9	17107.	3121.4
Stddev	7.7	4.4	106.	10.1
%RSD	.20792	.18243	.62028	.32359
#1	3716.8	2404.0	17032.	3114.2
#2	3705.9	2397.8	17182.	3128.5

Sample Name: 480-121506-c-21-e ms Acquired: 7/26/2017 19:00:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08785	288.30	.40614	.81684	1.6608
Stddev	.00186	.44	.00343	.00025	.0117
%RSD	2.1226	.15185	.84388	.03021	.70341
#1	.08917	288.61	.40856	.81666	1.6690
#2	.08653	288.00	.40372	.81701	1.6525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.36056	404.88	.37286	.3913	.47915
Stddev	.00113	2.88	.00004	.0125	.00051
%RSD	.31345	.71042	.01056	3.203	.10651
#1	.36136	406.91	.37283	.4002	.47951
#2	.35976	402.84	.37289	.3824	.47879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.82498	.81967	213.15	115.38	.78287
Stddev	.00406	.00292	.83	.76	.00277
%RSD	.49238	.35614	.38889	.66138	.35362
#1	.82785	.81761	213.74	115.92	.78483
#2	.82210	.82174	212.57	114.84	.78091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-e ms Acquired: 7/26/2017 19:00:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**130.64**	**4.0398**	**.33814**	**21.286**	**.96675**
Stddev	.34	.0088	.00001	.108	.00187
%RSD	.25723	.21863	.00170	.50886	.19392
#1	130.88	4.0460	.33814	21.363	.96542
#2	130.40	4.0335	.33813	21.209	.96807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76309**	**22.730**	**.22798**	**.35842**	**3.4580**
Stddev	.00332	.018	.00195	.00293	.0482
%RSD	.43454	.08094	.85352	.81839	1.3941
#1	.76544	22.743	.22661	.36049	3.4239
#2	.76075	22.717	.22936	.35634	3.4921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51030**	**1.3703**	**2.4859**	**.38755**	**.80237**
Stddev	.00126	.0059	.0040	.00166	.00540
%RSD	.24604	.43263	.15931	.42798	.67241
#1	.50941	1.3745	2.4887	.38638	.80618
#2	.51118	1.3661	2.4831	.38872	.79855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-e ms Acquired: 7/26/2017 19:00:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0700
Stddev	.0062
%RSD	.58079
#1	1.0744
#2	1.0656
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2792.6	2474.7	17088.	3513.8
Stddev	1.4	.5	97.	8.5
%RSD	.04995	.01864	.56714	.24214
#1	2791.6	2475.0	17019.	3507.7
#2	2793.6	2474.3	17156.	3519.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.894%	102.68%	99.171%	110.32%
Range				

Sample Name: 480-121506-c-21-f ms Acquired: 7/26/2017 19:04:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08909	185.35	.40521	.68675	1.1384
Stddev	.00177	1.38	.00267	.00003	.0051
%RSD	1.9879	.74205	.65775	.00463	.44630
#1	.09034	186.33	.40709	.68677	1.1420
#2	.08784	184.38	.40332	.68673	1.1348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.36847	F 965.68	.38916	.3653	.45011
Stddev	.00222	5.41	.00072	.0524	.00006
%RSD	.60381	.55972	.18618	14.34	.01225
#1	.37004	969.50	.38967	.3283	.45015
#2	.36690	961.86	.38864	.4024	.45007
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.68397	.63807	146.17	80.702	.68359
Stddev	.00146	.00397	.37	.405	.00805
%RSD	.21410	.62161	.25055	.50145	1.1780
#1	.68501	.64087	146.43	80.988	.68929
#2	.68294	.63526	145.91	80.416	.67790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-f ms Acquired: 7/26/2017 19:04:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**213.23**	**3.6687**	**.34663**	**21.913**	**.74807**
Stddev	.61	.0156	.00029	.160	.00120
%RSD	.28469	.42456	.08394	.73157	.15986
#1	213.66	3.6798	.34684	22.027	.74892
#2	212.80	3.6577	.34643	21.800	.74723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.57864**	**24.490**	**.29387**	**.37148**	**4.9361**
Stddev	.00490	.031	.00245	.00059	.0288
%RSD	.84688	.12577	.83538	.15835	.58280
#1	.58211	24.511	.29560	.37190	4.9564
#2	.57518	24.468	.29213	.37106	4.9157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50005**	**1.6279**	**1.7830**	**.38306**	**.66039**
Stddev	.00175	.0101	.0064	.00149	.00225
%RSD	.34899	.62230	.36140	.38807	.34096
#1	.50128	1.6351	1.7876	.38201	.66198
#2	.49881	1.6208	1.7784	.38411	.65879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-f ms Acquired: 7/26/2017 19:04:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.78093
Stddev	.00088
%RSD	.11322
#1	.78156
#2	.78031
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2611.2	2289.6	16054.	3351.5
Stddev	.7	.4	1.	9.6
%RSD	.02531	.01650	.00531	.28787
#1	2610.7	2289.4	16055.	3344.7
#2	2611.7	2289.9	16054.	3358.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.029%	95.000%	93.174%	105.23%
Range				

Sample Name: 480-121506-c-22-b Acquired: 7/26/2017 19:07:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00132**	**161.89**	**.05395**	**.23458**	**.85522**
Stddev	.00053	.48	.00122	.00007	.00103
%RSD	40.115	.29509	2.2600	.02876	.12066
#1	-.00170	162.23	.05308	.23453	.85595
#2	-.00095	161.56	.05481	.23463	.85450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00650**	**219.36**	**.00421**	**.2848**	**.08599**
Stddev	.00008	.30	.00003	.0197	.00002
%RSD	1.2457	.13749	.68661	6.917	.02134
#1	.00644	219.14	.00423	.2709	.08600
#2	.00655	219.57	.00419	.2988	.08598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77469**	**.69105**	**189.35**	**45.925**	**.37215**
Stddev	.00701	.00340	.18	.093	.00077
%RSD	.90523	.49177	.09515	.20227	.20730
#1	.77964	.69346	189.48	45.991	.37270
#2	.76973	.68865	189.22	45.860	.37161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-22-b Acquired: 7/26/2017 19:07:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.205**	**3.7773**	**.00830**	**.89379**	**1.0616**
Stddev	.494	.0201	.00004	.00538	.0014
%RSD	.58689	.53291	.45882	.60139	.13322
#1	84.555	3.7915	.00833	.89759	1.0606
#2	83.856	3.7630	.00827	.88999	1.0626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48833**	**6.0824**	**.00206**	**.00640**	**6.5573**
Stddev	.00356	.0116	.00241	.00269	.0007
%RSD	.72988	.19138	116.95	42.019	.01009
#1	.49085	6.0907	.00376	.00450	6.5569
#2	.48581	6.0742	.00036	.00830	6.5578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10339**	**.75760**	**.76494**	**-.00083**	**.27979**
Stddev	.00006	.00330	.00002	.00149	.00146
%RSD	.05891	.43548	.00278	179.01	.52311
#1	.10334	.75994	.76493	-.00189	.28083
#2	.10343	.75527	.76496	.00022	.27876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-22-b Acquired: 7/26/2017 19:07:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.99618
Stddev	.00877
%RSD	.88073
#1	1.0024
#2	.98998
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2983.7	2502.9	17442.	3480.7
Stddev	3.3	2.0	71.	9.1
%RSD	.11222	.08136	.40933	.26151
#1	2981.3	2501.4	17392.	3487.1
#2	2986.1	2504.3	17493.	3474.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.019%	103.85%	101.23%	109.29%
Range				

Sample Name: 480-121506-c-23-b Acquired: 7/26/2017 19:10:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**139.69**	**.03895**	**.16264**	**.92597**
Stddev	.00042	.82	.00036	.00034	.00819
%RSD	25.923	.58379	.92206	.20741	.88489
#1	-.00192	140.27	.03920	.16288	.93176
#2	-.00132	139.12	.03869	.16240	.92018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00515**	**88.179**	**.00200**	**.3307**	**.06132**
Stddev	.00009	.892	.00012	.0322	.00045
%RSD	1.6602	1.0119	5.8789	9.724	.72737
#1	.00521	88.810	.00192	.3079	.06163
#2	.00509	87.548	.00208	.3534	.06100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41149**	**.32356**	**150.12**	**32.104**	**.29188**
Stddev	.00025	.00188	2.12	.362	.00287
%RSD	.06091	.57988	1.4104	1.1289	.98379
#1	.41131	.32223	151.61	32.360	.29391
#2	.41166	.32489	148.62	31.848	.28985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-23-b Acquired: 7/26/2017 19:10:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.126**	**2.7076**	**.00560**	**.63715**	**.51335**
Stddev	.087	.0037	.00020	.01917	.00157
%RSD	.15150	.13782	3.5187	3.0084	.30513
#1	57.065	2.7049	.00546	.65070	.51446
#2	57.187	2.7102	.00574	.62359	.51224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16138**	**4.4781**	**-.00133**	**.00620**	**5.5565**
Stddev	.00025	.0037	.00148	.00203	.0546
%RSD	.15707	.08325	111.60	32.696	.98184
#1	.16156	4.4807	-.00237	.00477	5.5951
#2	.16120	4.4755	-.00028	.00764	5.5179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07910**	**.41156**	**.93720**	**.00035**	**.24463**
Stddev	.00025	.00182	.00797	.00004	.00128
%RSD	.32134	.44148	.85052	10.757	.52324
#1	.07892	.41285	.94283	.00038	.24372
#2	.07928	.41028	.93156	.00033	.24553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-23-b Acquired: 7/26/2017 19:10:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.50285**
Stddev	.00445
%RSD	.88397
#1	.49970
#2	.50599
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3142.2**	**2574.4**	**18020.**	**3553.0**
Stddev	1.4	.1	29.	44.5
%RSD	.04548	.00389	.16033	1.2531
#1	3141.2	2574.5	18041.	3521.5
#2	3143.2	2574.4	18000.	3584.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.269%	106.82%	104.58%	111.56%
Range				

Sample Name: 480-121506-a-26-a Acquired: 7/26/2017 19:14:16 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**94.409**	**.04391**	**.20034**	**.65975**
Stddev	.00030	.475	.00260	.00024	.00520
%RSD	84.506	.50354	5.9287	.11971	.78793
#1	.00057	94.073	.04207	.20051	.66342
#2	.00014	94.745	.04575	.20017	.65607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00357**	F **1179.6**	**.04584**	**.2926**	**.05457**
Stddev	.00001	3.1	.00020	.0268	.00020
%RSD	.32586	.26343	.43321	9.146	.37228
#1	.00356	1181.8	.04598	.3115	.05443
#2	.00358	1177.4	.04570	.2736	.05472
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76900**	**.70930**	**102.47**	**33.823**	**.32119**
Stddev	.00264	.00132	1.00	.067	.00126
%RSD	.34371	.18664	.97218	.19940	.39364
#1	.76713	.70837	101.77	33.776	.32030
#2	.77087	.71024	103.18	33.871	.32208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-a-26-a Acquired: 7/26/2017 19:14:16 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**428.25**	**2.3584**	**.00866**	**1.5596**	**.66437**
Stddev	1.09	.0049	.00009	.0174	.00060
%RSD	.25385	.20876	1.0107	1.1144	.09025
#1	427.48	2.3549	.00872	1.5473	.66395
#2	429.01	2.3619	.00860	1.5718	.66480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40002**	**5.2578**	**.00142**	**.00061**	**5.4044**
Stddev	.00124	.0015	.00029	.00431	.0103
%RSD	.30921	.02886	20.212	706.57	.19141
#1	.39915	5.2567	.00162	-.00244	5.3971
#2	.40090	5.2588	.00121	.00366	5.4117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14504**	**2.9371**	**1.0668**	**-.00306**	**.17577**
Stddev	.00137	.0097	.0112	.00221	.00036
%RSD	.94269	.32951	1.0474	72.172	.20327
#1	.14407	2.9302	1.0589	-.00150	.17552
#2	.14600	2.9439	1.0747	-.00463	.17602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-a-26-a Acquired: 7/26/2017 19:14:16 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.56908
Stddev	.00215
%RSD	.37814
#1	.56755
#2	.57060
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2553.1	2237.7	15910.	3308.7
Stddev	3.0	3.5	26.	22.0
%RSD	.11834	.15561	.16472	.66566
#1	2555.2	2240.2	15928.	3324.2
#2	2551.0	2235.3	15891.	3293.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.470%	92.847%	92.335%	103.88%
Range				

Sample Name: 480-121506-c-27-b Acquired: 7/26/2017 19:17:43 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**172.57**	**.06057**	**.25337**	**.82720**
Stddev	.00033	.40	.00090	.00065	.00153
%RSD	74.210	.22992	1.4804	.25662	.18479
#1	-.00067	172.29	.06120	.25291	.82828
#2	-.00021	172.85	.05993	.25383	.82611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00673**	**133.99**	**.00336**	**.2735**	**.08055**
Stddev	.00013	.03	.00007	.0125	.00020
%RSD	1.9532	.02002	2.1332	4.576	.25213
#1	.00682	133.97	.00341	.2647	.08040
#2	.00663	134.01	.00331	.2824	.08069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.60418**	**.57550**	**185.62**	**50.214**	**.38246**
Stddev	.00143	.00200	.02	.025	.00227
%RSD	.23743	.34687	.01323	.05062	.59318
#1	.60519	.57409	185.63	50.196	.38086
#2	.60316	.57691	185.60	50.232	.38407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-27-b Acquired: 7/26/2017 19:17:43 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.573**	**3.4479**	**.00696**	**.90796**	**.85077**
Stddev	.441	.0148	.00008	.00937	.00015
%RSD	.52166	.42857	1.1388	1.0316	.01750
#1	84.261	3.4374	.00701	.91458	.85066
#2	84.885	3.4583	.00690	.90134	.85087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40524**	**5.2155**	**-.00181**	**.00950**	**5.6414**
Stddev	.00072	.0034	.00152	.00085	.0317
%RSD	.17701	.06472	83.751	8.9487	.56120
#1	.40473	5.2131	-.00288	.00889	5.6191
#2	.40575	5.2179	-.00074	.01010	5.6638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09981**	**.60182**	**.71670**	**-.00071**	**.28905**
Stddev	.00163	.00192	.00147	.00039	.00098
%RSD	1.6291	.31986	.20503	54.754	.33880
#1	.09866	.60046	.71566	-.00044	.28836
#2	.10096	.60318	.71774	-.00099	.28975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-27-b Acquired: 7/26/2017 19:17:43 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.93605
Stddev	.00805
%RSD	.86002
#1	.93035
#2	.94174
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3046.9	2553.0	17875.	3535.7
Stddev	1.9	1.1	28.	1.5
%RSD	.06244	.04294	.15525	.04165
#1	3045.6	2553.7	17894.	3534.7
#2	3048.3	2552.2	17855.	3536.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.714%	105.93%	103.74%	111.01%
Range				

Sample Name: BLANK Acquired: 7/26/2017 19:21:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.03900**	**.00111**	**.00149**	**.00010**
Stddev	.00069	.00422	.00066	.00059	.00001
%RSD	151.01	10.811	59.980	39.556	7.5857
#1	.00003	.04198	.00064	.00107	.00009
#2	-.00094	.03602	.00158	.00191	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.05493**	**-.00002**	**-.0392**	**-.00018**
Stddev	.00005	.00171	.00002	.0334	.00004
%RSD	354.19	3.1155	74.212	85.24	20.565
#1	.00004	.05614	-.00004	-.0628	-.00015
#2	-.00002	.05372	-.00001	-.0156	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00054**	**.01854**	**.04991**	**.00241**
Stddev	.00044	.00039	.00040	.02695	.00110
%RSD	127.70	72.539	2.1636	53.990	45.723
#1	.00065	-.00082	.01882	.03086	.00163
#2	.00003	-.00026	.01825	.06896	.00319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 19:21:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01986**	**.00025**	**-.00013**	**.01066**	**-.00004**
Stddev	.00405	.00003	.00018	.00125	.00023
%RSD	20.391	12.192	140.20	11.729	516.18
#1	.01699	.00022	-.00000	.01154	-.00021
#2	.02272	.00027	-.00026	.00977	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00397**	**.00168**	**.00059**	**.00218**
Stddev	.00011	.00220	.00038	.00022	.01113
%RSD	38.704	55.315	22.456	37.070	510.26
#1	.00037	.00242	.00194	.00074	.01005
#2	.00021	.00552	.00141	.00043	-.00569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00015**	**.00012**	**.00119**	**-.00031**
Stddev	.00018	.00003	.00028	.00109	.00017
%RSD	129.71	22.064	227.39	91.602	54.277
#1	.00001	.00012	.00032	.00195	-.00044
#2	.00026	.00017	-.00008	.00042	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 19:21:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00010
Stddev	.00028
%RSD	274.60
#1	.00030
#2	-.00010
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3706.1	2381.2	17076.	3101.9
Stddev	3.2	3.8	21.	1.2
%RSD	.08634	.15786	.12016	.03943
#1	3708.3	2383.9	17061.	3102.8
#2	3703.8	2378.6	17090.	3101.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.392%	98.802%	99.102%	97.394%
Range				

Sample Name: mb 480-368566/1-a Acquired: 7/26/2017 19:24:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.03040**	**.00001**	**.00310**	**.00020**
Stddev	.00113	.00568	.00004	.00019	.00003
%RSD	81.506	18.688	398.87	6.2038	16.537
#1	-.00219	.03442	-.00002	.00297	.00022
#2	-.00059	.02639	.00004	.00324	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.06382**	**.00014**	**-.0230**	**-.00019**
Stddev	.00008	.00458	.00002	.0343	.00002
%RSD	170.02	7.1821	10.758	149.3	11.855
#1	-.00011	.06058	.00015	-.0473	-.00018
#2	.00001	.06706	.00013	.0013	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00025**	**.01748**	**.13110**	**-.00064**
Stddev	.00055	.00012	.00141	.00380	.00081
%RSD	73.636	48.421	8.0752	2.8978	125.99
#1	.00114	.00034	.01848	.13379	-.00122
#2	.00036	.00017	.01648	.12842	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368566/1-a Acquired: 7/26/2017 19:24:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01231**	**.00061**	**-.00003**	**.06452**	**.00053**
Stddev	.00238	.00002	.00015	.01416	.00012
%RSD	19.369	3.9119	532.65	21.943	22.069
#1	.01400	.00063	-.00014	.07454	.00061
#2	.01062	.00059	.00008	.05451	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.02771**	**.00027**	**-.00033**	**.25871**
Stddev	.00107	.00144	.00130	.00083	.01089
%RSD	287.22	5.1834	481.20	249.04	4.2090
#1	.00113	.02670	.00119	-.00091	.26641
#2	-.00038	.02873	-.00065	.00025	.25102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04835**	**.00026**	**.00086**	**.00013**	**.00024**
Stddev	.00017	.00009	.00006	.00022	.00064
%RSD	.35984	34.639	7.4631	171.26	270.83
#1	.04822	.00033	.00081	.00029	-.00022
#2	.04847	.00020	.00090	-.00003	.00069
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368566/1-a Acquired: 7/26/2017 19:24:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00127
Stddev	.00018
%RSD	14.158
#1	.00114
#2	.00140
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3766.5	2406.3	17327.	3178.0
Stddev	4.2	3.3	34.	8.9
%RSD	.11277	.13609	.19422	.28151
#1	3763.5	2404.0	17351.	3184.3
#2	3769.5	2408.6	17303.	3171.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.01%	99.841%	100.56%	99.782%
Range				

Sample Name: lcssrm 480-368566/2- Acquired: 7/26/2017 19:28:01 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51287**	**95.325**	**1.9212**	**.69283**	**3.8426**
Stddev	.00191	.962	.0030	.00005	.0408
%RSD	.37312	1.0092	.15502	.00707	1.0611
#1	.51152	96.005	1.9191	.69287	3.8714
#2	.51423	94.644	1.9233	.69280	3.8138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0058**	**54.174**	**1.0955**	**1.573**	**2.0807**
Stddev	.0110	.538	.0001	.055	.0004
%RSD	1.0882	.99402	.01361	3.520	.02155
#1	1.0135	54.555	1.0954	1.612	2.0810
#2	.99804	53.793	1.0956	1.534	2.0804
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.69429**	**.78797**	**150.04**	**30.434**	**.07758**
Stddev	.00087	.00152	1.67	.397	.00148
%RSD	.12592	.19267	1.1126	1.3054	1.9127
#1	.69367	.78904	151.22	30.715	.07863
#2	.69491	.78690	148.85	30.154	.07653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: lcssrm 480-368566/2- Acquired: 7/26/2017 19:28:01 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.319**	**4.3448**	**.56926**	**6.1479**	**1.9156**
Stddev	.030	.0004	.00003	.0676	.0006
%RSD	.10287	.00964	.00526	1.1002	.02920
#1	29.298	4.3445	.56928	6.1957	1.9160
#2	29.341	4.3451	.56924	6.1001	1.9152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.83815**	**1.3669**	**.70570**	**.95766**	**3.5677**
Stddev	.00402	.0006	.00168	.00308	.1158
%RSD	.47989	.04769	.23804	.32119	3.2462
#1	.84099	1.3665	.70689	.95549	3.6496
#2	.83530	1.3674	.70451	.95984	3.4858
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0054**	**1.3838**	**4.2442**	**1.5072**	**1.4081**
Stddev	.0014	.0127	.0132	.0014	.0047
%RSD	.14345	.91586	.31093	.09197	.33388
#1	1.0064	1.3928	4.2349	1.5062	1.4048
#2	1.0044	1.3749	4.2536	1.5082	1.4115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcssrm 480-368566/2- Acquired: 7/26/2017 19:28:01 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.9357**
Stddev	.0042
%RSD	.14407
#1	2.9327
#2	2.9387
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3199.7**	**2714.4**	**19120.**	**3658.5**
Stddev	.2	.1	38.	44.6
%RSD	.00612	.00476	.20033	1.2190
#1	3199.9	2714.4	19093.	3627.0
#2	3199.6	2714.3	19147.	3690.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.812%	112.62%	110.97%	114.87%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 19:31:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49614**	**25.042**	**.49318**	**.51312**	**.50906**
Stddev	.00247	.024	.00429	.00080	.00045
%RSD	.49796	.09604	.86947	.15675	.08812
#1	.49440	25.025	.49015	.51369	.50874
#2	.49789	25.059	.49621	.51255	.50938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50986**	**24.767**	**.50894**	**-.0383**	**.49715**
Stddev	.00012	.016	.00015	.0137	.00063
%RSD	.02361	.06305	.02921	35.91	.12706
#1	.50978	24.755	.50884	-.0286	.49671
#2	.50995	24.778	.50905	-.0480	.49760
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50679**	**.52871**	**24.145**	**26.090**	**.51529**
Stddev	.00073	.00110	.060	.053	.00041
%RSD	.14312	.20818	.24698	.20453	.07939
#1	.50730	.52948	24.103	26.127	.51558
#2	.50627	.52793	24.187	26.052	.51500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 19:31:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.473**	**.52483**	**.50187**	**25.483**	**.50613**
Stddev	.044	.00051	.00114	.024	.00033
%RSD	.17154	.09683	.22803	.09376	.06579
#1	25.442	.52447	.50106	25.500	.50589
#2	25.504	.52519	.50268	25.467	.50636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49765**	**25.120**	**.51005**	**.49774**	**24.026**
Stddev	.00016	.049	.00209	.00285	.013
%RSD	.03193	.19564	.40911	.57221	.05375
#1	.49776	25.085	.51152	.49573	24.035
#2	.49753	25.155	.50857	.49975	24.017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50840**	**.49604**	**.50239**	**.50203**	**.50536**
Stddev	.00112	.00002	.00221	.00295	.00004
%RSD	.21932	.00383	.43969	.58701	.00792
#1	.50761	.49602	.50083	.49994	.50538
#2	.50919	.49605	.50395	.50411	.50533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 19:31:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50619
Stddev	.00095
%RSD	.18780
#1	.50686
#2	.50552
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3368.0	2348.9	16510.	3125.5
Stddev	2.6	1.3	28.	10.1
%RSD	.07864	.05568	.16834	.32275
#1	3366.1	2348.0	16530.	3118.4
#2	3369.8	2349.8	16491.	3132.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 19:34:30 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.00968**	**.00043**	**.00193**	**.00015**
Stddev	.00138	.00251	.00084	.00008	.00000
%RSD	146.67	25.900	195.21	4.3781	2.5270
#1	.00004	.01146	.00102	.00199	.00015
#2	-.00192	.00791	-.00016	.00187	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.01355**	**-.00003**	**-.0021**	**-.00006**
Stddev	.00002	.00278	.00016	.0159	.00001
%RSD	626.68	20.492	499.25	749.5	23.249
#1	-.00002	.01552	-.00015	.0091	-.00007
#2	.00001	.01159	.00008	-.0134	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00015**	**.00767**	**.10176**	**.00016**
Stddev	.00029	.00065	.00222	.04696	.00040
%RSD	103.42	429.71	28.965	46.143	243.06
#1	.00008	-.00031	.00925	.13497	-.00012
#2	.00048	.00061	.00610	.06856	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 19:34:30 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.00017**	**.00011**	**.01066**	**-.00021**
Stddev	.00654	.00004	.00003	.00907	.00011
%RSD	114.68	23.435	29.297	85.107	53.598
#1	.01033	.00020	.00009	.00424	-.00028
#2	.00108	.00014	.00014	.01707	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**.00044**	**.00113**	**.00275**	**.00704**
Stddev	.00061	.00057	.00098	.00050	.00130
%RSD	56.495	131.44	86.593	18.355	18.496
#1	.00065	.00084	.00182	.00310	.00796
#2	.00152	.00003	.00044	.00239	.00612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00000**	**.00007**	**.00154**	**.00036**
Stddev	.00018	.00007	.00013	.00072	.00025
%RSD	132.16	2920.4	181.22	46.738	69.041
#1	-.00001	-.00005	.00017	.00205	.00053
#2	-.00026	.00005	-.00002	.00103	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 19:34:30 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00025
Stddev	.00041
%RSD	161.77
#1	.00054
#2	-.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3710.6	2387.6	16919.	3075.6
Stddev	2.2	4.4	40.	10.8
%RSD	.05943	.18271	.23575	.35265
#1	3709.1	2384.5	16890.	3068.0
#2	3712.2	2390.7	16947.	3083.3

Sample Name: CCVL-4147888 Acquired: 7/26/2017 19:37:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**.20331**	**.01497**	**.02180**	**.00225**
Stddev	.00000	.00980	.00037	.00001	.00001
%RSD	.05403	4.8185	2.4835	.05017	.32254
#1	.00588	.19638	.01470	.02181	.00225
#2	.00588	.21024	.01523	.02179	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.51188**	**.00203**	**-.0184**	**.00392**
Stddev	.00011	.00227	.00007	.0084	.00003
%RSD	5.2133	.44438	3.3909	45.76	.78693
#1	.00206	.51349	.00198	-.0124	.00394
#2	.00221	.51028	.00208	-.0243	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00441**	**.01056**	**.05739**	**.60579**	**.03212**
Stddev	.00030	.00114	.00137	.05816	.00026
%RSD	6.7310	10.816	2.3949	9.5998	.82113
#1	.00462	.01137	.05642	.56467	.03231
#2	.00420	.00976	.05836	.64692	.03193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 19:37:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21916**	**.00326**	**.01002**	**1.0361**	**.00974**
Stddev	.00154	.00005	.00022	.0140	.00067
%RSD	.70265	1.5686	2.2055	1.3465	6.8904
#1	.22025	.00329	.00986	1.0459	.01022
#2	.21807	.00322	.01018	1.0262	.00927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00990**	**.19678**	**.02188**	**.02682**	**.51830**
Stddev	.00124	.00182	.00090	.00296	.01395
%RSD	12.499	.92439	4.1100	11.027	2.6913
#1	.00903	.19549	.02125	.02891	.52816
#2	.01078	.19806	.02252	.02473	.50844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00864**	**.00506**	**.00530**	**.02087**	**.00507**
Stddev	.00004	.00004	.00028	.00048	.00034
%RSD	.51177	.84170	5.2250	2.2933	6.6198
#1	.00867	.00503	.00510	.02054	.00531
#2	.00861	.00509	.00549	.02121	.00483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 19:37:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01054
Stddev	.00040
%RSD	3.8205
#1	.01082
#2	.01025
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3712.3	2396.7	17042.	3119.8
Stddev	.4	2.0	59.	10.6
%RSD	.01193	.08141	.34684	.33823
#1	3712.0	2398.1	17084.	3112.3
#2	3712.6	2395.3	17001.	3127.3

Sample Name: 480-121501-c-1-a Acquired: 7/26/2017 19:41:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00226**	**52.600**	**.02776**	**.06432**	**.22414**
Stddev	.00100	.057	.00060	.00035	.00046
%RSD	44.165	.10802	2.1543	.54861	.20364
#1	-.00155	52.640	.02733	.06457	.22381
#2	-.00296	52.559	.02818	.06407	.22446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**394.15**	**.00087**	**.3130**	**.03043**
Stddev	.00010	3.39	.00020	.0167	.00034
%RSD	4.9472	.85912	22.390	5.337	1.1110
#1	.00202	396.54	.00074	.3012	.03066
#2	.00217	391.75	.00101	.3248	.03019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06712**	**.06936**	**84.590**	**11.544**	**.06614**
Stddev	.00001	.00038	.370	.040	.00157
%RSD	.02080	.55062	.43760	.34715	2.3808
#1	.06711	.06909	84.852	11.515	.06503
#2	.06713	.06963	84.329	11.572	.06726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-1-a Acquired: 7/26/2017 19:41:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**117.89**	**2.2066**	**.00227**	**1.4648**	**.07616**
Stddev	.50	.0089	.00008	.0041	.00028
%RSD	.42124	.40553	3.3962	.28098	.37153
#1	117.54	2.2002	.00233	1.4677	.07636
#2	118.24	2.2129	.00222	1.4618	.07596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04754**	**1.4552**	**-.00087**	**-.00101**	**5.2066**
Stddev	.00100	.0062	.00064	.00226	.0985
%RSD	2.1011	.42473	73.077	222.88	1.8912
#1	.04684	1.4508	-.00132	.00058	5.2763
#2	.04825	1.4596	-.00042	-.00261	5.1370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05584**	**.49971**	**1.6834**	**-.00388**	**.13288**
Stddev	.00072	.00025	.0000	.00098	.00084
%RSD	1.2926	.05065	.00003	25.340	.62976
#1	.05533	.49989	1.6834	-.00319	.13229
#2	.05635	.49953	1.6834	-.00458	.13347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-1-a Acquired: 7/26/2017 19:41:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.26279
Stddev	.00138
%RSD	.52574
#1	.26182
#2	.26377
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2940.5	2382.6	16933.	3364.5
Stddev	2.1	3.8	91.	36.8
%RSD	.07245	.16152	.53838	1.0948
#1	2942.0	2385.3	16997.	3338.4
#2	2939.0	2379.9	16868.	3390.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.860%	98.858%	98.272%	105.64%
Range				

Sample Name: 480-121501-c-2-a Acquired: 7/26/2017 19:44:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**79.650**	**.05685**	**.09305**	**.52105**
Stddev	.00003	.050	.00153	.00049	.00084
%RSD	40.066	.06324	2.6892	.52250	.16040
#1	-.00006	79.685	.05793	.09340	.52045
#2	-.00011	79.614	.05577	.09271	.52164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00349**	**215.47**	**.01217**	**.2918**	**.06227**
Stddev	.00012	.31	.00013	.0055	.00009
%RSD	3.3088	.14569	1.0520	1.889	.14062
#1	.00357	215.25	.01207	.2879	.06221
#2	.00341	215.69	.01226	.2957	.06233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.29645**	**.36884**	**329.25**	**20.798**	**.10302**
Stddev	.00012	.00210	.20	.032	.00125
%RSD	.03957	.57026	.06018	.15509	1.2175
#1	.29653	.37032	329.11	20.821	.10213
#2	.29637	.36735	329.39	20.776	.10391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-2-a Acquired: 7/26/2017 19:44:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.965**	**2.7471**	**.00842**	**1.4124**	**.23619**
Stddev	.068	.0058	.00002	.0018	.00005
%RSD	.08671	.21118	.27018	.12633	.02012
#1	78.916	2.7430	.00840	1.4111	.23616
#2	79.013	2.7512	.00843	1.4136	.23623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30485**	**2.4701**	**.00120**	**-.00173**	**6.4821**
Stddev	.00119	.0076	.00206	.00448	.0065
%RSD	.39068	.30671	172.48	259.22	.10092
#1	.30569	2.4754	.00266	-.00490	6.4774
#2	.30400	2.4647	-.00026	.00144	6.4867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15677**	**.35369**	**1.6361**	**-.00309**	**.17991**
Stddev	.00031	.00023	.0065	.00040	.00062
%RSD	.20029	.06410	.39771	13.012	.34255
#1	.15699	.35353	1.6315	-.00280	.18035
#2	.15655	.35385	1.6407	-.00337	.17948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-2-a Acquired: 7/26/2017 19:44:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.5000
Stddev	.0025
%RSD	.16731
#1	1.4982
#2	1.5017
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2984.0	2393.1	17117.	3312.2
Stddev	.3	.8	59.	8.2
%RSD	.01036	.03344	.34620	.24805
#1	2984.2	2393.7	17075.	3318.0
#2	2983.8	2392.5	17159.	3306.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.026%	99.294%	99.341%	103.99%
Range				

Sample Name: 480-121501-c-3-a Acquired: 7/26/2017 19:48:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00835**	**48.664**	**.02448**	**.06736**	**3.9972**
Stddev	.00044	.090	.00191	.00002	.0229
%RSD	5.2830	.18576	7.7942	.02712	.57328
#1	.00866	48.600	.02313	.06735	3.9810
#2	.00804	48.728	.02583	.06738	4.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**340.95**	**.00713**	**.2977**	**.03321**
Stddev	.00002	4.88	.00005	.0128	.00026
%RSD	.74129	1.4323	.67627	4.313	.78832
#1	.00207	337.49	.00716	.2886	.03340
#2	.00205	344.40	.00709	.3068	.03302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14919**	**.17189**	**89.900**	**10.490**	**.06169**
Stddev	.00025	.00085	.331	.071	.00109
%RSD	.16433	.49338	.36833	.67567	1.7707
#1	.14901	.17129	89.666	10.440	.06247
#2	.14936	.17249	90.134	10.540	.06092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-a Acquired: 7/26/2017 19:48:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**120.17**	**2.2925**	**.00954**	**1.1844**	**.17931**
Stddev	.18	.0068	.00009	.0138	.00083
%RSD	.15057	.29566	.96753	1.1671	.46186
#1	120.04	2.2877	.00947	1.1746	.17989
#2	120.29	2.2973	.00960	1.1942	.17872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.66774**	**2.3954**	**.00612**	**.00248**	**4.0964**
Stddev	.00086	.0036	.00099	.00056	.0161
%RSD	.12847	.15194	16.153	22.694	.39371
#1	.66834	2.3980	.00542	.00208	4.0850
#2	.66713	2.3929	.00682	.00288	4.1078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10396**	**.50329**	**1.4872**	**-.00072**	**.12733**
Stddev	.00103	.00255	.0016	.00065	.00035
%RSD	.99360	.50624	.10869	90.604	.27786
#1	.10323	.50149	1.4861	-.00026	.12708
#2	.10469	.50509	1.4884	-.00118	.12758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-a Acquired: 7/26/2017 19:48:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.74992
Stddev	.00104
%RSD	.13843
#1	.74918
#2	.75065
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2968.8	2403.6	17018.	3374.5
Stddev	8.5	6.6	26.	34.2
%RSD	.28564	.27251	.15380	1.0132
#1	2962.8	2398.9	17036.	3398.7
#2	2974.8	2408.2	16999.	3350.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.619%	99.728%	98.764%	105.95%
Range				

Sample Name: 480-121501-c-3-aSD@5 Acquired: 7/26/2017 19:51:48 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**10.341**	**.00599**	**.01592**	**.84288**
Stddev	.00038	.046	.00050	.00010	.00243
%RSD	39.429	.44118	8.4038	.65826	.28880
#1	.00123	10.373	.00563	.01600	.84461
#2	.00069	10.309	.00634	.01585	.84116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**75.309**	**.00175**	**.0135**	**.00650**
Stddev	.00003	.495	.00002	.0052	.00013
%RSD	6.8549	.65787	1.1554	38.19	1.9606
#1	.00038	75.659	.00174	.0099	.00641
#2	.00042	74.958	.00177	.0172	.00659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03275**	**.03465**	**19.905**	**2.2307**	**.01466**
Stddev	.00024	.00023	.061	.0503	.00110
%RSD	.71785	.66486	.30876	2.2532	7.4821
#1	.03258	.03449	19.948	2.2662	.01543
#2	.03291	.03481	19.861	2.1951	.01388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-aSD@5 Acquired: 7/26/2017 19:51:48 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.780**	**.50661**	**.00169**	**.25462**	**.03490**
Stddev	.039	.00035	.00002	.00158	.00003
%RSD	.15136	.06926	.98606	.62195	.07856
#1	25.752	.50686	.00168	.25574	.03488
#2	25.807	.50637	.00170	.25350	.03492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13305**	**.50427**	**.00034**	**.00153**	**.84378**
Stddev	.00129	.00010	.00043	.00306	.01134
%RSD	.96905	.02039	127.68	200.62	1.3445
#1	.13214	.50434	.00064	.00369	.85180
#2	.13397	.50419	.00003	-.00064	.83576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02018**	**.10894**	**.31978**	**-.00063**	**.02742**
Stddev	.00014	.00072	.00013	.00104	.00021
%RSD	.71306	.66365	.03957	165.77	.77681
#1	.02029	.10945	.31987	.00011	.02757
#2	.02008	.10843	.31969	-.00136	.02727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-aSD@5 Acquired: 7/26/2017 19:51:48 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.17175
Stddev	.00180
%RSD	1.0509
#1	.17302
#2	.17047
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3396.3	2380.6	16883.	3177.2
Stddev	7.0	8.7	85.	21.8
%RSD	.20626	.36670	.50066	.68503
#1	3401.2	2386.8	16824.	3161.8
#2	3391.3	2374.5	16943.	3192.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.083%	98.777%	97.984%	99.756%
Range				

Sample Name: 480-121501-c-3-a PDS Acquired: 7/26/2017 19:55:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09992**	**68.968**	**.38027**	**.42852**	**4.4922**
Stddev	.00058	.226	.00073	.00100	.0388
%RSD	.58335	.32716	.19318	.23272	.86255
#1	.10034	69.128	.38079	.42922	4.5196
#2	.09951	68.809	.37975	.42781	4.4648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37410**	**366.47**	**.38962**	**.2810**	**.43129**
Stddev	.00186	4.63	.00056	.0002	.00036
%RSD	.49638	1.2620	.14457	.0594	.08357
#1	.37541	369.74	.39002	.2808	.43104
#2	.37279	363.20	.38922	.2811	.43155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50646**	**.58976**	**109.96**	**30.486**	**.45998**
Stddev	.00383	.00152	.96	.289	.00067
%RSD	.75620	.25691	.87597	.94901	.14670
#1	.50375	.58869	110.64	30.691	.46045
#2	.50917	.59083	109.28	30.282	.45950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-a PDS Acquired: 7/26/2017 19:55:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**143.70**	**2.7586**	**.36201**	**20.316**	**.59043**
Stddev	.92	.0163	.00004	.031	.00024
%RSD	.63807	.58900	.01056	.15300	.04008
#1	143.05	2.7471	.36199	20.338	.59026
#2	144.34	2.7701	.36204	20.294	.59059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1064**	**2.4998**	**.38848**	**.36209**	**4.7668**
Stddev	.0003	.0048	.00103	.00600	.0045
%RSD	.02887	.19366	.26462	1.6558	.09450
#1	1.1062	2.4964	.38775	.35785	4.7700
#2	1.1067	2.5032	.38920	.36633	4.7637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11016**	**.89229**	**1.9231**	**.38350**	**.49985**
Stddev	.00025	.00047	.0026	.00125	.00374
%RSD	.22933	.05318	.13603	.32652	.74897
#1	.10998	.89196	1.9212	.38438	.49720
#2	.11033	.89263	1.9249	.38261	.50250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-a PDS Acquired: 7/26/2017 19:55:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1244**
Stddev	.0068
%RSD	.60098
#1	1.1196
#2	1.1291
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2880.4**	**2378.8**	**16901.**	**3371.8**
Stddev	4.3	6.3	69.	34.8
%RSD	.14956	.26362	.40727	1.0321
#1	2877.4	2374.4	16950.	3347.2
#2	2883.5	2383.2	16853.	3396.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.249%	98.700%	98.089%	105.87%
Range				

Sample Name: 480-121501-c-3-b ms Acquired: 7/26/2017 19:58:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07926**	**85.505**	**.33529**	**.41375**	**2.4450**
Stddev	.00116	1.097	.00300	.00041	.0325
%RSD	1.4621	1.2834	.89622	.09935	1.3289
#1	.07844	86.281	.33741	.41404	2.4680
#2	.08008	84.729	.33316	.41346	2.4220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33158**	**284.25**	**.60898**	**.2369**	**.37402**
Stddev	.00404	1.49	.00171	.0215	.00108
%RSD	1.2185	.52540	.28142	9.075	.28972
#1	.33444	285.30	.61019	.2217	.37478
#2	.32872	283.19	.60777	.2521	.37325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46384**	**.68315**	**91.880**	**36.164**	**.40403**
Stddev	.00145	.00005	.936	.513	.00580
%RSD	.31301	.00712	1.0190	1.4185	1.4353
#1	.46281	.68319	92.542	36.527	.40813
#2	.46486	.68312	91.218	35.801	.39993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-b ms Acquired: 7/26/2017 19:58:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**109.66**	**2.3170**	**.31900**	**18.547**	**.47929**
Stddev	.52	.0058	.00087	.206	.00039
%RSD	.47781	.25095	.27359	1.1115	.08155
#1	109.29	2.3129	.31962	18.693	.47956
#2	110.03	2.3211	.31839	18.401	.47901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.61348**	**18.557**	**.30453**	**.32466**	**7.8883**
Stddev	.00137	.019	.00134	.00115	.0784
%RSD	.22287	.10050	.44081	.35547	.99327
#1	.61444	18.570	.30548	.32548	7.9437
#2	.61251	18.544	.30358	.32384	7.8329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.42687**	**.72655**	**2.5523**	**.34128**	**.47734**
Stddev	.00005	.00723	.0009	.00247	.00022
%RSD	.01226	.99448	.03633	.72232	.04685
#1	.42684	.73165	2.5517	.34302	.47718
#2	.42691	.72144	2.5530	.33953	.47750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-b ms Acquired: 7/26/2017 19:58:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.93410**
Stddev	.00691
%RSD	.73984
#1	.92922
#2	.93899
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2961.5**	**2412.5**	**16931.**	**3379.3**
Stddev	4.0	4.7	41.	38.9
%RSD	.13381	.19563	.24046	1.1502
#1	2958.7	2409.1	16960.	3351.8
#2	2964.3	2415.8	16902.	3406.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.422%	100.10%	98.262%	106.10%
Range				

Sample Name: 480-121501-c-3-c msd Acquired: 7/26/2017 20:02:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08915**	**111.84**	**.38452**	**.47983**	**4.3155**
Stddev	.00096	.26	.00083	.00200	.0008
%RSD	1.0739	.23452	.21479	.41751	.01765
#1	.08982	112.03	.38394	.48125	4.3150
#2	.08847	111.66	.38511	.47842	4.3160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37204**	**364.10**	**.38816**	**.3020**	**.43929**
Stddev	.00049	1.48	.00111	.0089	.00201
%RSD	.13244	.40601	.28679	2.942	.45861
#1	.37239	363.06	.38895	.3083	.44072
#2	.37169	365.15	.38737	.2957	.43787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54391**	**.60721**	**120.40**	**46.315**	**.47029**
Stddev	.00093	.00113	.18	.014	.00096
%RSD	.17138	.18586	.14783	.03068	.20473
#1	.54325	.60801	120.27	46.304	.47097
#2	.54457	.60641	120.52	46.325	.46961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-c msd Acquired: 7/26/2017 20:02:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**138.67**	**3.0156**	**.35918**	**21.346**	**.63042**
Stddev	.21	.0043	.00194	.023	.00231
%RSD	.15279	.14242	.54021	.10913	.36619
#1	138.82	3.0186	.36056	21.329	.63205
#2	138.52	3.0126	.35781	21.362	.62879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.68786**	**21.499**	**.33021**	**.35983**	**6.5674**
Stddev	.00443	.077	.00205	.00212	.0054
%RSD	.64358	.35929	.62080	.58936	.08244
#1	.69099	21.554	.33166	.36133	6.5712
#2	.68473	21.444	.32876	.35833	6.5636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50301**	**.92624**	**3.0422**	**.38868**	**.56589**
Stddev	.00316	.00267	.0103	.00310	.00136
%RSD	.62794	.28794	.33684	.79656	.24048
#1	.50525	.92813	3.0495	.39087	.56685
#2	.50078	.92435	3.0350	.38650	.56493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-c msd Acquired: 7/26/2017 20:02:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.2369
Stddev	.0047
%RSD	.38221
#1	1.2403
#2	1.2336
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2877.2	2422.7	17137.	3411.1
Stddev	14.0	9.1	9.	5.3
%RSD	.48503	.37485	.05387	.15622
#1	2867.4	2416.3	17143.	3414.9
#2	2887.1	2429.2	17130.	3407.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.163%	100.52%	99.456%	107.10%
Range				

Sample Name: 480-121501-c-4-a Acquired: 7/26/2017 20:05:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00230**	**29.381**	**.02601**	**.05264**	**.11776**
Stddev	.00077	.099	.00013	.00016	.00060
%RSD	33.418	.33837	.51776	.31277	.51011
#1	-.00176	29.451	.02591	.05275	.11734
#2	-.00284	29.311	.02610	.05252	.11819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**358.43**	**.00134**	**.2523**	**.02723**
Stddev	.00005	.24	.00008	.0331	.00005
%RSD	3.7130	.06823	6.3109	13.11	.20051
#1	.00126	358.61	.00140	.2289	.02727
#2	.00133	358.26	.00128	.2756	.02719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04832**	**.06380**	**65.422**	**8.4332**	**.03820**
Stddev	.00004	.00028	.297	.0567	.00067
%RSD	.07326	.44617	.45471	.67241	1.7485
#1	.04829	.06400	65.632	8.4733	.03867
#2	.04834	.06360	65.212	8.3931	.03773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-4-a Acquired: 7/26/2017 20:05:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**144.01**	**2.5794**	**.00212**	**1.2528**	**.05923**
Stddev	.56	.0098	.00013	.0080	.00054
%RSD	.38738	.37818	5.9992	.64284	.90974
#1	143.62	2.5725	.00203	1.2471	.05885
#2	144.41	2.5863	.00221	1.2585	.05961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04540**	**.80369**	**.00059**	**-.00253**	**3.2107**
Stddev	.00004	.00675	.00100	.00009	.0229
%RSD	.08984	.83949	169.80	3.5209	.71184
#1	.04537	.79892	.00130	-.00247	3.1946
#2	.04543	.80846	-.00012	-.00260	3.2269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05074**	**.36014**	**1.4751**	**-.00029**	**.10309**
Stddev	.00016	.00014	.0068	.00025	.00025
%RSD	.31141	.03809	.46254	86.059	.24714
#1	.05085	.36004	1.4703	-.00011	.10327
#2	.05063	.36024	1.4799	-.00047	.10291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-4-a Acquired: 7/26/2017 20:05:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.31955
Stddev	.00216
%RSD	.67547
#1	.31802
#2	.32108
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2981.7	2388.0	16868.	3315.9
Stddev	4.9	6.8	89.	14.0
%RSD	.16412	.28385	.52682	.42274
#1	2985.1	2392.7	16931.	3305.9
#2	2978.2	2383.2	16805.	3325.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.964%	99.080%	97.895%	104.11%
Range				

Sample Name: 480-121501-c-5-a Acquired: 7/26/2017 20:08:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00144**	**33.367**	**.03339**	**.05148**	**.17236**
Stddev	.00057	.073	.00024	.00015	.00025
%RSD	39.192	.21931	.72043	.29341	.14520
#1	-.00184	33.315	.03356	.05158	.17254
#2	-.00104	33.419	.03322	.05137	.17218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00147**	**334.90**	**.00148**	**.3136**	**.03024**
Stddev	.00011	1.57	.00020	.0144	.00010
%RSD	7.6445	.47021	13.593	4.599	.33004
#1	.00139	333.79	.00134	.3034	.03017
#2	.00155	336.02	.00163	.3238	.03031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05037**	**.05992**	**68.976**	**8.8707**	**.04032**
Stddev	.00007	.00096	.395	.0586	.00055
%RSD	.13167	1.6014	.57279	.66035	1.3543
#1	.05032	.05924	68.697	8.8293	.03994
#2	.05042	.06060	69.256	8.9122	.04071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-5-a Acquired: 7/26/2017 20:08:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**131.96**	**2.5555**	**.00280**	**1.2323**	**.06321**
Stddev	.07	.0028	.00020	.0039	.00025
%RSD	.05306	.11050	7.0962	.31997	.39474
#1	132.01	2.5575	.00294	1.2295	.06338
#2	131.92	2.5536	.00266	1.2351	.06303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04760**	**.66199**	**.00039**	**.00166**	**3.4558**
Stddev	.00215	.00217	.00010	.00050	.0251
%RSD	4.5082	.32742	26.200	30.391	.72526
#1	.04911	.66046	.00032	.00201	3.4735
#2	.04608	.66353	.00047	.00130	3.4380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05291**	**.35903**	**1.5640**	**-.00307**	**.10644**
Stddev	.00007	.00119	.0005	.00013	.00055
%RSD	.13134	.33117	.03313	4.3660	.51697
#1	.05286	.35818	1.5637	-.00317	.10606
#2	.05296	.35987	1.5644	-.00298	.10683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-5-a Acquired: 7/26/2017 20:08:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.32182**
Stddev	.00009
%RSD	.02873
#1	.32176
#2	.32189
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2992.6**	**2421.4**	**17195.**	**3413.4**
Stddev	8.2	3.3	44.	11.0
%RSD	.27314	.13833	.25657	.32234
#1	2986.8	2419.0	17226.	3421.2
#2	2998.4	2423.7	17163.	3405.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.256%	100.47%	99.790%	107.17%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:12:29 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49127**	**24.984**	**.49099**	**.51307**	**.51249**
Stddev	.00068	.004	.00135	.00020	.00074
%RSD	.13752	.01543	.27486	.03924	.14367
#1	.49079	24.981	.49004	.51292	.51197
#2	.49175	24.987	.49195	.51321	.51301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51392**	**24.826**	**.50950**	**-.0433**	**.49765**
Stddev	.00025	.031	.00136	.0390	.00018
%RSD	.04829	.12614	.26741	90.13	.03699
#1	.51409	24.848	.50853	-.0157	.49752
#2	.51374	24.803	.51046	-.0708	.49778
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49921**	**.53574**	**24.237**	**26.531**	**.52061**
Stddev	.00097	.00102	.099	.044	.00110
%RSD	.19379	.19025	.40730	.16545	.21212
#1	.49853	.53646	24.307	26.562	.52139
#2	.49990	.53502	24.168	26.500	.51983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:12:29 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.535**	**.52664**	**.49962**	**25.796**	**.50583**
Stddev	.019	.00078	.00082	.078	.00055
%RSD	.07567	.14749	.16328	.30425	.10805
#1	25.522	.52610	.49905	25.851	.50621
#2	25.549	.52719	.50020	25.740	.50544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49487**	**25.133**	**.50850**	**.49583**	**24.051**
Stddev	.00123	.049	.00428	.00397	.014
%RSD	.24771	.19557	.84191	.80004	.05751
#1	.49400	25.098	.50547	.49303	24.041
#2	.49574	25.167	.51152	.49864	24.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50832**	**.49671**	**.49748**	**.49589**	**.49998**
Stddev	.00050	.00075	.00198	.00003	.00024
%RSD	.09873	.15195	.39802	.00587	.04816
#1	.50867	.49617	.49608	.49587	.50015
#2	.50796	.49724	.49888	.49591	.49981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:12:29 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50232
Stddev	.00017
%RSD	.03455
#1	.50220
#2	.50245
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3386.1	2361.9	16608.	3122.1
Stddev	6.2	5.8	108.	3.0
%RSD	.18240	.24459	.65114	.09462
#1	3390.5	2366.0	16685.	3120.0
#2	3381.7	2357.8	16532.	3124.2

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:15:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.01091**	**-.00152**	**.00124**	**.00009**
Stddev	.00008	.01810	.00022	.00017	.00003
%RSD	9.8985	165.93	14.366	13.694	29.105
#1	-.00073	-.00189	-.00168	.00112	.00011
#2	-.00084	.02370	-.00137	.00136	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.01734**	**.00007**	**-.0249**	**-.00001**
Stddev	.00004	.00639	.00009	.0175	.00012
%RSD	80.908	36.850	138.82	70.13	1341.3
#1	-.00002	.01282	.00000	-.0126	-.00010
#2	-.00007	.02185	.00013	-.0373	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00061**	**.00601**	**.02699**	**-.00036**
Stddev	.00038	.00017	.00072	.00027	.00092
%RSD	210.01	27.754	11.928	.98263	257.97
#1	.00045	-.00049	.00651	.02680	-.00100
#2	-.00009	-.00073	.00550	.02717	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:15:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00721**	**.00001**	**.00005**	**.01178**	**-.00026**
Stddev	.00363	.00008	.00001	.01212	.00000
%RSD	50.316	715.27	17.562	102.82	1.8816
#1	.00464	.00007	.00004	.00322	-.00026
#2	.00977	-.00005	.00005	.02035	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00135**	**.00068**	**.00351**	**.01144**
Stddev	.00015	.00040	.00120	.00047	.00876
%RSD	58.315	29.401	177.73	13.272	76.537
#1	.00015	.00163	-.00017	.00384	.00525
#2	.00037	.00107	.00153	.00318	.01763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00003**	**-.00014**	**.00070**	**.00068**
Stddev	.00038	.00001	.00021	.00009	.00008
%RSD	262.35	44.758	149.77	13.422	11.180
#1	.00012	.00004	-.00029	.00063	.00063
#2	-.00042	.00002	.00001	.00077	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:15:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00007
Stddev	.00027
%RSD	403.10
#1	-.00012
#2	.00025
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3727.5	2400.4	17107.	3106.2
Stddev	3.0	3.5	28.	16.4
%RSD	.08152	.14754	.16177	.52669
#1	3729.7	2403.0	17088.	3117.7
#2	3725.4	2397.9	17127.	3094.6

Sample Name: CCVL-4147888 Acquired: 7/26/2017 20:19:10 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00488**	**.22419**	**.01516**	**.02107**	**.00221**
Stddev	.00068	.00252	.00051	.00003	.00002
%RSD	13.865	1.1239	3.3894	.12854	.88504
#1	.00440	.22241	.01552	.02105	.00222
#2	.00536	.22597	.01479	.02109	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.50728**	**.00222**	**-.0288**	**.00398**
Stddev	.00002	.00236	.00008	.0200	.00003
%RSD	.77508	.46494	3.7586	69.41	.70462
#1	.00208	.50895	.00216	-.0147	.00400
#2	.00210	.50561	.00227	-.0430	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.01127**	**.05374**	**.56327**	**.03267**
Stddev	.00009	.00004	.00128	.00505	.00036
%RSD	2.1065	.34277	2.3795	.89574	1.0948
#1	.00406	.01130	.05464	.56684	.03292
#2	.00419	.01124	.05283	.55970	.03242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 20:19:10 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21493**	**.00324**	**.00998**	**1.0298**	**.00998**
Stddev	.00679	.00001	.00001	.0067	.00004
%RSD	3.1573	.38407	.12825	.65320	.41834
#1	.21973	.00323	.00999	1.0345	.01001
#2	.21013	.00325	.00997	1.0250	.00995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01028**	**.19758**	**.01999**	**.02688**	**.51405**
Stddev	.00096	.00316	.00201	.00187	.00616
%RSD	9.3490	1.6010	10.059	6.9744	1.1975
#1	.01096	.19981	.02142	.02821	.50969
#2	.00960	.19534	.01857	.02555	.51840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00963**	**.00490**	**.00469**	**.02011**	**.00496**
Stddev	.00061	.00009	.00013	.00170	.00016
%RSD	6.3057	1.8984	2.6893	8.4781	3.3219
#1	.01006	.00483	.00478	.02131	.00507
#2	.00920	.00496	.00460	.01890	.00484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 20:19:10 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01094
Stddev	.00038
%RSD	3.4546
#1	.01121
#2	.01067
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3721.1	2404.5	17148.	3101.2
Stddev	4.1	7.6	24.	3.3
%RSD	.11030	.31472	.14185	.10623
#1	3724.0	2409.8	17165.	3098.9
#2	3718.2	2399.1	17131.	3103.5

Sample Name: 480-121501-c-6-a Acquired: 7/26/2017 20:22:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**40.907**	**.02924**	**.06604**	**.16250**
Stddev	.00125	.164	.00203	.00017	.00016
%RSD	77.123	.39995	6.9421	.25896	.09692
#1	-.00073	40.791	.02780	.06592	.16262
#2	-.00250	41.023	.03067	.06616	.16239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	**476.49**	**.00080**	**.2806**	**.02729**
Stddev	.00004	1.09	.00012	.0215	.00011
%RSD	2.1173	.22940	15.041	7.658	.38780
#1	.00176	475.71	.00072	.2958	.02721
#2	.00181	477.26	.00089	.2654	.02736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05860**	**.06742**	**77.993**	**11.115**	**.06396**
Stddev	.00015	.00147	.381	.058	.00121
%RSD	.24916	2.1846	.48906	.51739	1.8927
#1	.05850	.06846	78.263	11.156	.06310
#2	.05871	.06638	77.723	11.075	.06481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-6-a Acquired: 7/26/2017 20:22:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**173.56**	**2.7419**	**.00304**	**1.6094**	**.07102**
Stddev	.50	.0045	.00036	.0062	.00007
%RSD	.29072	.16235	11.896	.38633	.09561
#1	173.91	2.7451	.00278	1.6050	.07107
#2	173.20	2.7388	.00330	1.6138	.07097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04453**	**1.2334**	**-.00047**	**.00043**	**4.0118**
Stddev	.00061	.0014	.00000	.00232	.0195
%RSD	1.3623	.11411	.00352	545.76	.48599
#1	.04410	1.2344	-.00047	-.00122	4.0256
#2	.04496	1.2324	-.00047	.00207	3.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05253**	**.53537**	**1.4307**	**-.00095**	**.11323**
Stddev	.00002	.00124	.0011	.00090	.00007
%RSD	.03359	.23234	.07535	94.465	.06360
#1	.05252	.53449	1.4315	-.00032	.11328
#2	.05254	.53625	1.4300	-.00159	.11318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-6-a Acquired: 7/26/2017 20:22:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.25367**
Stddev	.00114
%RSD	.44819
#1	.25448
#2	.25287
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2877.6**	**2365.6**	**16745.**	**3371.3**
Stddev	.4	4.9	3.	.4
%RSD	.01327	.20535	.01623	.01087
#1	2877.9	2362.2	16747.	3371.1
#2	2877.3	2369.1	16744.	3371.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.173%	98.154%	97.184%	105.85%
Range				

Sample Name: 480-121550-c-1-a Acquired: 7/26/2017 20:26:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**68.774**	**.05311**	**.08214**	**.53992**
Stddev	.00003	.142	.00054	.00007	.00100
%RSD	1.4241	.20695	1.0087	.09053	.18557
#1	.00188	68.673	.05273	.08219	.53921
#2	.00192	68.875	.05349	.08209	.54063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00343**	**372.00**	**.00309**	**.3494**	**.04074**
Stddev	.00019	1.00	.00014	.0093	.00011
%RSD	5.6001	.26862	4.6869	2.651	.28166
#1	.00356	371.29	.00299	.3429	.04066
#2	.00329	372.71	.00320	.3560	.04082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09690**	**.18503**	**108.95**	**14.517**	**.07791**
Stddev	.00104	.00168	.15	.058	.00043
%RSD	1.0742	.90867	.14054	.40178	.54792
#1	.09616	.18384	109.06	14.558	.07761
#2	.09763	.18622	108.84	14.475	.07821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-c-1-a Acquired: 7/26/2017 20:26:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**73.267**	**2.6023**	**.00348**	**1.6099**	**.10141**
Stddev	.085	.0038	.00019	.0043	.00002
%RSD	.11633	.14747	5.5590	.26714	.01506
#1	73.207	2.5996	.00361	1.6130	.10142
#2	73.327	2.6050	.00334	1.6069	.10140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1145**	**5.6453**	**.00306**	**.00335**	**3.9873**
Stddev	.0077	.0026	.00029	.00163	.0362
%RSD	.18775	.04516	9.5574	48.766	.90772
#1	4.1090	5.6435	.00327	.00219	3.9617
#2	4.1200	5.6471	.00285	.00450	4.0129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10120**	**.53034**	**1.4245**	**-.00211**	**.16420**
Stddev	.00004	.00050	.0040	.00111	.00068
%RSD	.03945	.09365	.28121	52.662	.41639
#1	.10122	.53069	1.4217	-.00290	.16372
#2	.10117	.52999	1.4274	-.00133	.16468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-c-1-a Acquired: 7/26/2017 20:26:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0472**
Stddev	.0032
%RSD	.31066
#1	1.0449
#2	1.0495
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2989.6**	**2455.6**	**17320.**	**3399.6**
Stddev	4.5	2.3	26.	12.9
%RSD	.15022	.09329	.14973	.38085
#1	2992.7	2457.2	17338.	3390.4
#2	2986.4	2454.0	17302.	3408.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.175%	101.89%	100.52%	106.74%
Range				

Sample Name: 480-121550-d-3-a Acquired: 7/26/2017 20:29:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00403**	**61.987**	**.05718**	**.09686**	**.89907**
Stddev	.00036	.004	.00273	.00021	.00242
%RSD	8.8461	.00665	4.7719	.21924	.26890
#1	.00378	61.984	.05525	.09701	.89736
#2	.00428	61.990	.05910	.09671	.90078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	**428.77**	**.02468**	**.3494**	**.04510**
Stddev	.00002	.01	.00005	.0266	.00010
%RSD	.68206	.00265	.22202	7.605	.21291
#1	.00354	428.78	.02464	.3306	.04517
#2	.00351	428.76	.02472	.3682	.04503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10291**	**.50851**	**101.05**	**14.655**	**.07495**
Stddev	.00054	.00377	.04	.032	.00010
%RSD	.52061	.74235	.04408	.21633	.13683
#1	.10329	.50584	101.02	14.633	.07487
#2	.10253	.51118	101.08	14.678	.07502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-d-3-a Acquired: 7/26/2017 20:29:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**141.27**	**2.7657**	**.00583**	**1.5729**	**.12671**
Stddev	.65	.0125	.00012	.0104	.00056
%RSD	.45984	.45277	2.1098	.65814	.43950
#1	140.81	2.7568	.00574	1.5656	.12631
#2	141.73	2.7745	.00592	1.5802	.12710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5070**	**5.8163**	**.00454**	**.00837**	**4.6995**
Stddev	.0029	.0038	.00030	.00185	.0931
%RSD	.11556	.06546	6.6739	22.045	1.9815
#1	2.5049	5.8190	.00433	.00707	4.7654
#2	2.5090	5.8136	.00476	.00967	4.6337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.29543**	**.63806**	**1.6541**	**-.00218**	**.15686**
Stddev	.00169	.00115	.0123	.00128	.00082
%RSD	.57301	.18044	.74212	58.469	.52428
#1	.29423	.63887	1.6454	-.00309	.15628
#2	.29662	.63724	1.6628	-.00128	.15744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-d-3-a Acquired: 7/26/2017 20:29:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.8234**
Stddev	.0119
%RSD	.65020
#1	1.8151
#2	1.8318
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2899.8**	**2408.8**	**17146.**	**3398.2**
Stddev	4.8	4.7	63.	14.0
%RSD	.16469	.19349	.36592	.41180
#1	2903.2	2412.1	17191.	3388.3
#2	2896.4	2405.5	17102.	3408.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.768%	99.943%	99.510%	106.70%
Range				

Sample Name: 480-121550-a-8-a Acquired: 7/26/2017 20:33:00 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**78.256**	**.04298**	**.11793**	**.85300**
Stddev	.00012	.194	.00023	.00059	.00172
%RSD	11.815	.24808	.53950	.49726	.20112
#1	.00090	78.119	.04314	.11751	.85179
#2	.00106	78.393	.04281	.11834	.85422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00294**	**217.35**	**.00245**	**.3727**	**.03600**
Stddev	.00010	.40	.00011	.0052	.00025
%RSD	3.4967	.18302	4.3628	1.397	.68869
#1	.00302	217.06	.00237	.3690	.03583
#2	.00287	217.63	.00252	.3764	.03618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10516**	**.15449**	**100.11**	**16.183**	**.06872**
Stddev	.00099	.00057	.45	.050	.00058
%RSD	.93698	.36670	.45020	.30810	.84132
#1	.10586	.15489	99.790	16.147	.06913
#2	.10446	.15409	100.43	16.218	.06831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-a-8-a Acquired: 7/26/2017 20:33:00 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**70.229**	**2.3715**	**.00183**	**1.8739**	**.08387**
Stddev	.135	.0018	.00019	.0050	.00044
%RSD	.19259	.07652	10.615	.26956	.52285
#1	70.133	2.3702	.00196	1.8703	.08418
#2	70.325	2.3728	.00169	1.8774	.08356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6518**	**2.3867**	**.00051**	**.00040**	**4.3467**
Stddev	.0026	.0017	.00203	.00363	.0186
%RSD	.15489	.07249	397.67	905.00	.42715
#1	1.6536	2.3855	-.00092	.00297	4.3336
#2	1.6500	2.3879	.00195	-.00217	4.3598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07595**	**.34529**	**1.9749**	**-.00408**	**.16636**
Stddev	.00044	.00031	.0004	.00092	.00113
%RSD	.57403	.08850	.02131	22.557	.67651
#1	.07626	.34551	1.9746	-.00473	.16716
#2	.07564	.34507	1.9752	-.00343	.16556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-a-8-a Acquired: 7/26/2017 20:33:00 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0853**
Stddev	.0002
%RSD	.01498
#1	1.0855
#2	1.0852
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3098.2**	**2528.1**	**17795.**	**3464.1**
Stddev	4.9	1.6	15.	10.7
%RSD	.15967	.06432	.08455	.31012
#1	3094.7	2527.0	17806.	3471.6
#2	3101.7	2529.3	17785.	3456.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.089%	104.90%	103.28%	108.76%
Range				

Sample Name: 480-121550-a-11-a Acquired: 7/26/2017 20:36:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00135**	**53.139**	**.02928**	**.10038**	**.57153**
Stddev	.00030	.001	.00206	.00054	.00272
%RSD	22.233	.00153	7.0436	.53507	.47508
#1	-.00156	53.139	.03074	.10076	.56961
#2	-.00113	53.140	.02783	.10000	.57345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**316.32**	**.00211**	**.2826**	**.03047**
Stddev	.00005	2.00	.00006	.0340	.00009
%RSD	2.3128	.63112	2.6367	12.02	.30974
#1	.00209	314.91	.00207	.3066	.03040
#2	.00202	317.73	.00215	.2586	.03053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07827**	**.20877**	**79.292**	**15.180**	**.06128**
Stddev	.00081	.00106	.172	.024	.00262
%RSD	1.0392	.50770	.21755	.15681	4.2774
#1	.07884	.20802	79.170	15.163	.06313
#2	.07769	.20952	79.414	15.196	.05943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-a-11-a Acquired: 7/26/2017 20:36:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**108.73**	**2.4684**	**.00249**	**1.5834**	**.07979**
Stddev	.13	.0002	.00011	.0012	.00058
%RSD	.11947	.00989	4.5488	.07681	.72354
#1	108.82	2.4686	.00257	1.5843	.07939
#2	108.63	2.4683	.00241	1.5825	.08020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77326**	**3.5059**	**.00143**	**.00017**	**4.9655**
Stddev	.00269	.0041	.00014	.00249	.0295
%RSD	.34765	.11610	9.5831	1454.1	.59430
#1	.77516	3.5030	.00153	.00194	4.9864
#2	.77136	3.5088	.00133	-.00159	4.9446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07214**	**.46724**	**1.3437**	**-.00066**	**.13094**
Stddev	.00056	.00027	.0003	.00061	.00008
%RSD	.77248	.05852	.02500	92.706	.06424
#1	.07254	.46743	1.3440	-.00023	.13088
#2	.07175	.46705	1.3435	-.00109	.13100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-a-11-a Acquired: 7/26/2017 20:36:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.66160
Stddev	.00010
%RSD	.01550
#1	.66152
#2	.66167
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3035.3	2458.5	17407.	3392.7
Stddev	2.3	.1	17.	27.3
%RSD	.07442	.00462	.09842	.80447
#1	3036.9	2458.6	17419.	3412.0
#2	3033.7	2458.4	17395.	3373.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.401%	102.01%	101.02%	106.52%
Range				

Sample Name: 480-121393-b-2-a Acquired: 7/26/2017 20:39:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**36.723**	**.36428**	**.08193**	**1.4365**
Stddev	.00008	.220	.00487	.00046	.0022
%RSD	8.8950	.59892	1.3376	.55896	.15145
#1	-.00092	36.567	.36084	.08225	1.4350
#2	-.00081	36.878	.36773	.08161	1.4380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00712**	**104.68**	**.00591**	**.2147**	**.05337**
Stddev	.00014	.38	.00014	.0056	.00026
%RSD	2.0277	.36051	2.3667	2.601	.48044
#1	.00702	104.41	.00581	.2186	.05319
#2	.00722	104.95	.00601	.2107	.05355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18390**	**.86323**	**230.32**	**5.2077**	**.04364**
Stddev	.00083	.00087	.63	.0443	.00010
%RSD	.45173	.10129	.27529	.85067	.23240
#1	.18449	.86384	229.88	5.1764	.04357
#2	.18331	.86261	230.77	5.2391	.04372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121393-b-2-a Acquired: 7/26/2017 20:39:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.093**	**3.2116**	**.01724**	**1.2348**	**.21072**
Stddev	.038	.0011	.00028	.0019	.00032
%RSD	.14000	.03447	1.6144	.15207	.15330
#1	27.119	3.2124	.01705	1.2362	.21095
#2	27.066	3.2108	.01744	1.2335	.21049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5298**	**8.6532**	**.03343**	**.01418**	**7.0007**
Stddev	.0014	.0115	.00133	.00148	.0424
%RSD	.09351	.13290	3.9817	10.405	.60599
#1	1.5308	8.6451	.03437	.01523	7.0307
#2	1.5287	8.6614	.03249	.01314	6.9707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15428**	**1.4204**	**1.7573**	**-.00074**	**.12295**
Stddev	.00011	.0069	.0010	.00255	.00112
%RSD	.07175	.48807	.05710	346.23	.91231
#1	.15420	1.4155	1.7565	-.00254	.12374
#2	.15436	1.4253	1.7580	.00107	.12216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121393-b-2-a Acquired: 7/26/2017 20:39:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.3527
Stddev	.0021
%RSD	.15424
#1	1.3512
#2	1.3541
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3254.4	2498.6	17655.	3409.9
Stddev	.6	2.8	18.	27.6
%RSD	.01845	.11259	.10088	.80860
#1	3254.8	2500.6	17643.	3429.4
#2	3254.0	2496.7	17668.	3390.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.279%	103.67%	102.47%	107.06%
Range				

Sample Name: 480-121389-c-2-a Acquired: 7/26/2017 20:43:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**77.904**	**.03047**	**.03279**	**.35030**
Stddev	.00006	.043	.00138	.00012	.00003
%RSD	7.2730	.05515	4.5153	.36143	.00814
#1	-.00081	77.874	.02950	.03270	.35032
#2	-.00073	77.935	.03145	.03287	.35028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**15.863**	**.00952**	**.1640**	**.01573**
Stddev	.00011	.021	.00010	.0005	.00011
%RSD	5.7427	.13450	1.0057	.3173	.67217
#1	.00187	15.878	.00945	.1637	.01565
#2	.00203	15.848	.00958	.1644	.01580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13816**	**.32844**	**52.411**	**4.3826**	**.06273**
Stddev	.00023	.00038	.217	.0462	.00020
%RSD	.16541	.11617	.41314	1.0554	.32252
#1	.13799	.32871	52.565	4.4153	.06259
#2	.13832	.32817	52.258	4.3499	.06287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-c-2-a Acquired: 7/26/2017 20:43:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.783**	**.24350**	**.01796**	**.60113**	**.07594**
Stddev	.002	.00036	.00015	.01626	.00010
%RSD	.01906	.14984	.83654	2.7050	.12788
#1	10.785	.24375	.01785	.61263	.07601
#2	10.782	.24324	.01807	.58963	.07587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44844**	**5.8967**	**.00552**	**.00506**	**4.3943**
Stddev	.00029	.0063	.00058	.00140	.0176
%RSD	.06517	.10619	10.548	27.702	.40061
#1	.44823	5.9012	.00511	.00407	4.4067
#2	.44864	5.8923	.00593	.00606	4.3818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07648**	**.05354**	**1.6589**	**.00036**	**.21944**
Stddev	.00095	.00013	.0054	.00160	.00134
%RSD	1.2455	.24871	.32666	449.15	.61233
#1	.07581	.05345	1.6627	.00149	.22039
#2	.07715	.05364	1.6551	-.00078	.21849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-c-2-a Acquired: 7/26/2017 20:43:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.7006
Stddev	.0064
%RSD	.37372
#1	1.7051
#2	1.6961
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3464.2	2470.7	17351.	3299.6
Stddev	1.1	2.2	16.	.5
%RSD	.03146	.08948	.09052	.01379
#1	3463.4	2469.1	17362.	3299.3
#2	3465.0	2472.2	17340.	3300.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.905%	102.51%	100.70%	103.60%
Range				

Sample Name: 480-121492-a-1-a Acquired: 7/26/2017 20:46:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01651**	**19.220**	**.04372**	**.06369**	F **46.888**
Stddev	.00019	.065	.00008	.00027	.340
%RSD	1.1568	.33784	.18290	.42089	.72541
#1	.01638	19.174	.04377	.06388	46.648
#2	.01665	19.266	.04366	.06350	47.129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	F **1992.6**	**.57644**	**.0078**	**.18513**
Stddev	.00002	3.9	.00003	.0264	.00053
%RSD	2.9241	.19560	.00577	339.2	.28540
#1	-.00075	1989.9	.57646	.0264	.18551
#2	-.00079	1995.4	.57642	-.0109	.18476
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33375**	**.05013**	**7.4658**	**1.8103**	**-.02826**
Stddev	.00234	.00041	.0502	.0565	.00015
%RSD	.70147	.82778	.67235	3.1213	.52968
#1	.33210	.04984	7.4303	1.7703	-.02815
#2	.33541	.05043	7.5013	1.8502	-.02836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121492-a-1-a Acquired: 7/26/2017 20:46:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.204**	**.50663**	**.00193**	**1.2538**	**.02226**
Stddev	.066	.00069	.00025	.0135	.00003
%RSD	.20544	.13677	13.090	1.0796	.13972
#1	32.158	.50614	.00175	1.2443	.02228
#2	32.251	.50712	.00211	1.2634	.02224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **479.37**	**72.526**	**.02305**	**-.00486**	**3.2807**
Stddev	.22	.012	.00127	.00122	.0024
%RSD	.04609	.01603	5.5127	25.097	.07435
#1	479.52	72.534	.02394	-.00572	3.2789
#2	479.21	72.518	.02215	-.00400	3.2824
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	110.00				
Low Limit	-.01000				

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13811**	**1.1437**	**12.177**	**-.01008**	**.02968**
Stddev	.00019	.0014	.029	.00124	.00035
%RSD	.13575	.12639	.23694	12.261	1.1679
#1	.13824	1.1447	12.156	-.01095	.02944
#2	.13798	1.1427	12.197	-.00920	.02993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121492-a-1-a Acquired: 7/26/2017 20:46:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **204.00**
Stddev	.57
%RSD	.27911
#1	204.40
#2	203.60
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2555.3**	**2003.1**	**14752.**	**2954.6**
Stddev	1.8	3.3	8.	21.9
%RSD	.07114	.16233	.05302	.74061
#1	2556.6	2005.4	14758.	2970.0
#2	2554.0	2000.8	14747.	2939.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.529%	83.112%	85.618%	92.767%
Range				

Sample Name: 480-121492-a-1-a@10 Acquired: 7/26/2017 20:50:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**1.9942**	**.00434**	**.00824**	**4.8089**
Stddev	.00108	.0247	.00000	.00029	.0455
%RSD	885.83	1.2398	.05828	3.5039	.94697
#1	-.00064	1.9768	.00435	.00845	4.7767
#2	.00088	2.0117	.00434	.00804	4.8411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**220.13**	**.05505**	**-.0014**	**.01774**
Stddev	.00005	1.94	.00010	.0157	.00003
%RSD	66.028	.87997	.17754	1083.	.18306
#1	-.00011	218.76	.05498	-.0125	.01772
#2	-.00004	221.50	.05512	.0096	.01776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03672**	**-.00288**	**.77874**	**.20898**	**-.00704**
Stddev	.00052	.00105	.00154	.02372	.00231
%RSD	1.4192	36.449	.19784	11.352	32.738
#1	.03635	-.00214	.77765	.19220	-.00868
#2	.03709	-.00362	.77983	.22575	-.00541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121492-a-1-a@10 Acquired: 7/26/2017 20:50:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5679**	**.05453**	**.00040**	**.12275**	**.00202**
Stddev	.0076	.00011	.00024	.00135	.00006
%RSD	.21285	.19348	59.675	1.1009	3.2034
#1	3.5733	.05460	.00057	.12179	.00207
#2	3.5625	.05445	.00023	.12371	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.806**	**6.7533**	**.00322**	**-.00143**	**.54911**
Stddev	.066	.0107	.00035	.00079	.02890
%RSD	.13538	.15765	10.920	55.398	5.2637
#1	48.853	6.7608	.00297	-.00087	.52867
#2	48.759	6.7458	.00347	-.00199	.56955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01348**	**.11486**	**2.1290**	**-.00038**	**.00344**
Stddev	.00043	.00060	.0334	.00049	.00029
%RSD	3.1721	.51884	1.5700	127.38	8.4545
#1	.01318	.11444	2.1054	-.00073	.00323
#2	.01378	.11528	2.1527	-.00004	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121492-a-1-a@10 Acquired: 7/26/2017 20:50:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **32.888**
Stddev	.099
%RSD	.30131
#1	32.818
#2	32.958
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3266.4**	**2266.0**	**16176.**	**3071.3**
Stddev	.1	.6	19.	10.6
%RSD	.00234	.02691	.11557	.34618
#1	3266.4	2265.6	16163.	3078.9
#2	3266.3	2266.5	16190.	3063.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.600%	94.022%	93.881%	96.433%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:53:45 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48802**	**24.959**	**.49245**	**.51328**	**.51429**
Stddev	.00198	.106	.00114	.00031	.00131
%RSD	.40509	.42662	.23184	.06049	.25492
#1	.48942	25.034	.49164	.51306	.51521
#2	.48662	24.883	.49325	.51350	.51336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51342**	**24.816**	**.51046**	**-.0199**	**.49806**
Stddev	.00202	.191	.00029	.0098	.00008
%RSD	.39365	.76780	.05724	49.42	.01648
#1	.51485	24.951	.51025	-.0130	.49812
#2	.51199	24.681	.51066	-.0269	.49800
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49926**	**.53504**	**24.241**	**26.539**	**.52233**
Stddev	.00075	.00317	.185	.118	.00190
%RSD	.14962	.59328	.76136	.44279	.36403
#1	.49979	.53728	24.371	26.622	.52367
#2	.49874	.53279	24.110	26.456	.52098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:53:45 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.530**	**.52707**	**.50079**	**25.800**	**.50648**
Stddev	.029	.00116	.00176	.161	.00035
%RSD	.11463	.22069	.35109	.62285	.06907
#1	25.510	.52790	.49955	25.914	.50673
#2	25.551	.52625	.50204	25.687	.50624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50376**	**25.233**	**.50928**	**.50159**	**24.013**
Stddev	.00045	.045	.00157	.00205	.202
%RSD	.09003	.17887	.30883	.40871	.84197
#1	.50344	25.201	.51040	.50014	24.156
#2	.50408	25.265	.50817	.50304	23.870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50901**	**.49696**	**.49977**	**.49863**	**.50061**
Stddev	.00118	.00221	.00065	.00078	.00204
%RSD	.23219	.44409	.13070	.15579	.40799
#1	.50817	.49852	.50023	.49808	.50205
#2	.50984	.49540	.49930	.49918	.49916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:53:45 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50819**
Stddev	.00005
%RSD	.00921
#1	.50823
#2	.50816
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3390.0**	**2360.6**	**16635.**	**3103.5**
Stddev	7.8	3.7	7.	18.6
%RSD	.22944	.15704	.04198	.59985
#1	3384.5	2358.0	16630.	3090.4
#2	3395.5	2363.2	16640.	3116.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:56:57 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.01584**	**.00001**	**.00108**	**.00053**
Stddev	.00033	.00282	.00183	.00019	.00000
%RSD	419.94	17.796	12555.	17.431	.36671
#1	-.00031	.01783	-.00128	.00095	.00053
#2	.00015	.01384	.00131	.00121	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.03151**	**.00010**	**.0004**	**-.00011**
Stddev	.00008	.00341	.00006	.0080	.00003
%RSD	229.19	10.813	56.310	2049.	21.781
#1	.00009	.02910	.00014	-.0053	-.00013
#2	-.00002	.03392	.00006	.0061	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00030**	**.00799**	**-.00168**	**-.00215**
Stddev	.00001	.00118	.00220	.01159	.00032
%RSD	1.7386	391.59	27.503	688.02	14.799
#1	.00053	.00114	.00643	-.00988	-.00237
#2	.00052	-.00053	.00954	.00651	-.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:56:57 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00672**	**.00013**	**.00010**	**.00913**	**.00006**
Stddev	.00168	.00003	.00003	.00274	.00019
%RSD	24.939	22.382	27.391	30.059	326.10
#1	.00791	.00011	.00008	.01107	.00019
#2	.00554	.00015	.00012	.00719	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00318**	**.00447**	**.00019**	**.00281**	**.03098**
Stddev	.00036	.00062	.00022	.00069	.01036
%RSD	11.298	13.922	114.09	24.514	33.454
#1	.00293	.00491	.00035	.00232	.03831
#2	.00344	.00403	.00004	.00329	.02365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00013**	**.00062**	**.00097**	**.00023**
Stddev	.00045	.00002	.00022	.00077	.00023
%RSD	23589.	12.951	34.834	79.210	98.942
#1	-.00032	.00014	.00047	.00152	.00007
#2	.00032	.00011	.00078	.00043	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:56:57 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00362
Stddev	.00012
%RSD	3.4333
#1	.00354
#2	.00371
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3705.8	2386.2	17051.	3083.1
Stddev	5.5	1.8	116.	31.8
%RSD	.14880	.07491	.68127	1.0301
#1	3709.7	2387.5	16969.	3105.6
#2	3701.9	2385.0	17133.	3060.7

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:00:26 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00655**	W **.26962**	**.01448**	**.02120**	**.00252**
Stddev	.00135	.00064	.00053	.00005	.00006
%RSD	20.648	.23656	3.6652	.21896	2.2868
#1	.00750	.26917	.01410	.02116	.00256
#2	.00559	.27007	.01485	.02123	.00248
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.20000			
Range		30.000%			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.52528**	**.00218**	**-.0171**	**.00399**
Stddev	.00005	.00336	.00004	.0041	.00015
%RSD	2.3932	.64023	1.9230	23.96	3.6835
#1	.00204	.52290	.00221	-.0200	.00409
#2	.00211	.52765	.00215	-.0142	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00416**	**.01138**	**.05402**	**.53116**	**.02946**
Stddev	.00042	.00064	.00194	.01845	.00109
%RSD	10.143	5.6528	3.5840	3.4738	3.7124
#1	.00386	.01092	.05539	.51811	.02868
#2	.00446	.01183	.05265	.54420	.03023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:00:26 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21059**	**.00323**	**.00987**	**1.0401**	**.00969**
Stddev	.00017	.00008	.00013	.0078	.00030
%RSD	.07956	2.3776	1.3294	.74862	3.0982
#1	.21071	.00328	.00996	1.0346	.00948
#2	.21047	.00317	.00978	1.0456	.00991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **.01319**	**.20025**	**.02096**	**.02755**	**.50848**
Stddev	.00110	.00116	.00060	.00246	.00609
%RSD	8.3641	.58056	2.8385	8.9380	1.1969
#1	.01241	.20107	.02054	.02929	.50418
#2	.01397	.19943	.02138	.02581	.51279
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.01000				
Range	30.000%				

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00938**	**.00505**	**.00542**	**.02006**	**.00530**
Stddev	.00001	.00003	.00070	.00054	.00085
%RSD	.13388	.53843	12.979	2.6702	15.963
#1	.00939	.00507	.00492	.02044	.00589
#2	.00937	.00503	.00592	.01968	.00470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:00:26 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	W .01437
Stddev	.00003
%RSD	.23050
#1	.01439
#2	.01435
Check ?	Chk Warn
Value	.01000
Range	30.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3728.7	2409.9	17166.	3103.4
Stddev	2.0	3.0	41.	6.0
%RSD	.05405	.12300	.23644	.19414
#1	3727.2	2407.8	17138.	3107.6
#2	3730.1	2412.0	17195.	3099.1

Sample Name: mb 480-368710/1-a Acquired: 7/26/2017 21:03:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.04849**	**.00150**	**.00484**	**.00040**
Stddev	.00079	.02809	.00063	.00021	.00001
%RSD	213.93	57.934	41.660	4.2399	1.3622
#1	-.00093	.02863	.00194	.00470	.00040
#2	.00019	.06835	.00106	.00499	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.08390**	**-.00006**	**-.0085**	**-.00004**
Stddev	.00005	.00137	.00002	.0014	.00010
%RSD	485.88	1.6339	32.833	16.61	248.97
#1	-.00002	.08487	-.00004	-.0075	-.00011
#2	.00004	.08293	-.00007	-.0095	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00108**	**.00933**	**.06055**	**.00012**
Stddev	.00048	.00086	.00081	.05857	.00042
%RSD	148.79	79.538	8.7299	96.731	364.51
#1	-.00002	.00169	.00875	.01913	.00041
#2	.00066	.00047	.00991	.10197	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368710/1-a Acquired: 7/26/2017 21:03:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00932**	**.00109**	**.00000**	**.03285**	**-.00010**
Stddev	.00305	.00003	.00023	.01065	.00011
%RSD	32.747	3.0390	8144.8	32.411	100.52
#1	.00716	.00107	.00017	.02532	-.00018
#2	.01148	.00111	-.00016	.04038	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**.02813**	**.00019**	**.00216**	**-.00012**
Stddev	.00090	.00115	.00050	.00004	.00578
%RSD	67.315	4.0988	269.37	1.8842	4907.8
#1	.00070	.02731	-.00017	.00219	.00397
#2	.00196	.02894	.00054	.00214	-.00420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.00028**	**-.00003**	**.00066**	**-.00017**
Stddev	.00007	.00001	.00054	.00037	.00041
%RSD	10.687	3.4039	1877.7	55.268	243.52
#1	-.00072	.00028	-.00041	.00040	-.00046
#2	-.00062	.00029	.00036	.00092	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368710/1-a Acquired: 7/26/2017 21:03:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00241
Stddev	.00059
%RSD	24.437
#1	.00199
#2	.00282
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3821.0	2451.8	17405.	3187.0
Stddev	6.7	6.7	72.	8.0
%RSD	.17528	.27170	.41565	.25127
#1	3825.7	2456.5	17456.	3192.6
#2	3816.3	2447.0	17354.	3181.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.47%	101.73%	101.01%	100.06%
Range				

Sample Name: lcs 480-368710/2-a Acquired: 7/26/2017 21:07:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04708**	**10.187**	**.19449**	**.20737**	**.20733**
Stddev	.00029	.009	.00105	.00016	.00018
%RSD	.61372	.08573	.54226	.07534	.08585
#1	.04688	10.193	.19523	.20748	.20745
#2	.04729	10.181	.19374	.20726	.20720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20204**	**9.8273**	**.20523**	**-.0350**	**.18929**
Stddev	.00034	.0297	.00074	.0145	.00034
%RSD	.16780	.30265	.35925	41.35	.18193
#1	.20228	9.8483	.20471	-.0248	.18953
#2	.20180	9.8062	.20576	-.0453	.18905
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19686**	**.21665**	**9.9703**	**10.351**	**.20615**
Stddev	.00007	.00024	.0099	.030	.00183
%RSD	.03727	.10855	.09932	.29234	.88532
#1	.19691	.21648	9.9773	10.372	.20486
#2	.19681	.21682	9.9633	10.329	.20744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368710/2-a Acquired: 7/26/2017 21:07:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.400**	**.21459**	**.19852**	**10.075**	**.19559**
Stddev	.006	.00037	.00049	.010	.00009
%RSD	.05692	.17452	.24847	.10203	.04382
#1	10.395	.21486	.19817	10.082	.19565
#2	10.404	.21433	.19887	10.067	.19553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20062**	**10.012**	**.20183**	**.19716**	**9.7582**
Stddev	.00017	.012	.00044	.00416	.0378
%RSD	.08502	.11884	.21966	2.1080	.38760
#1	.20074	10.003	.20152	.20009	9.7849
#2	.20050	10.020	.20215	.19422	9.7314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19796**	**.19627**	**.19495**	**.19670**	**.20072**
Stddev	.00027	.00025	.00080	.00035	.00027
%RSD	.13719	.12565	.41247	.17982	.13419
#1	.19816	.19645	.19552	.19645	.20092
#2	.19777	.19610	.19438	.19695	.20053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368710/2-a Acquired: 7/26/2017 21:07:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20403**
Stddev	.00116
%RSD	.56937
#1	.20485
#2	.20321
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3592.0**	**2417.6**	**17067.**	**3186.0**
Stddev	7.1	6.2	15.	7.2
%RSD	.19882	.25479	.09054	.22620
#1	3597.0	2421.9	17078.	3180.9
#2	3586.9	2413.2	17056.	3191.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.331%	100.31%	99.052%	100.03%
Range				

Sample Name: 480-121588-e-1-b Acquired: 7/26/2017 21:10:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.04494**	**.00080**	**.02512**	**.18454**
Stddev	.00090	.00695	.00270	.00019	.00051
%RSD	143.12	15.462	335.45	.76164	.27873
#1	-.00126	.04003	.00271	.02498	.18417
#2	.00001	.04986	-.00110	.02525	.18490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**49.685**	**.00012**	**-.0280**	**.00002**
Stddev	.00014	.222	.00003	.0068	.00019
%RSD	254.65	.44679	28.680	24.18	886.03
#1	-.00015	49.528	.00009	-.0232	.00015
#2	.00004	49.842	.00014	-.0328	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00067**	**.02539**	**1.4695**	**.01601**
Stddev	.00022	.00039	.00189	.0102	.00030
%RSD	125.98	58.044	7.4393	.69157	1.8436
#1	.00002	.00040	.02406	1.4767	.01580
#2	.00032	.00095	.02673	1.4623	.01621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-1-b Acquired: 7/26/2017 21:10:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.833**	**.28918**	**.00056**	**125.32**	**.00231**
Stddev	.016	.00049	.00010	.75	.00014
%RSD	.10105	.16848	18.731	.60065	5.9401
#1	15.844	.28884	.00049	124.78	.00221
#2	15.822	.28953	.00063	125.85	.00241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**6.1096**	**-.00024**	**-.00067**	**4.9750**
Stddev	.00046	.0117	.00077	.00136	.0582
%RSD	22.393	.19211	325.93	201.92	1.1693
#1	.00237	6.1179	-.00078	.00029	4.9339
#2	.00172	6.1013	.00031	-.00164	5.0162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.29373**	**.00003**	**.00033**	**.00031**
Stddev	.00023	.00033	.00005	.00075	.00041
%RSD	73.374	.11354	169.98	230.03	133.04
#1	-.00048	.29350	.00007	.00086	.00059
#2	-.00015	.29397	-.00001	-.00021	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-1-b Acquired: 7/26/2017 21:10:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00401
Stddev	.00053
%RSD	13.078
#1	.00439
#2	.00364
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3339.7	2335.5	16461.	3136.0
Stddev	8.5	4.2	30.	30.0
%RSD	.25466	.17851	.18209	.95645
#1	3345.7	2338.4	16439.	3157.2
#2	3333.6	2332.5	16482.	3114.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.565%	96.902%	95.531%	98.463%
Range				

Sample Name: 480-121588-e-2-b Acquired: 7/26/2017 21:14:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.05307**	**-.00020**	**.02560**	**.18980**
Stddev	.00026	.00714	.00206	.00021	.00052
%RSD	65.848	13.455	1011.4	.80145	.27328
#1	.00021	.04802	.00125	.02575	.19017
#2	.00059	.05812	-.00166	.02546	.18943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**50.617**	**.00025**	**-.0447**	**.00006**
Stddev	.00008	.186	.00007	.0375	.00011
%RSD	51.900	.36812	27.040	83.95	174.42
#1	-.00010	50.749	.00020	-.0181	-.00001
#2	-.00022	50.486	.00029	-.0712	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00003**	**.02503**	**1.5190**	**.01637**
Stddev	.00075	.00089	.00195	.0009	.00062
%RSD	160.03	2973.2	7.7956	.06055	3.7701
#1	.00100	-.00066	.02641	1.5183	.01680
#2	-.00006	.00060	.02365	1.5196	.01593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-2-b Acquired: 7/26/2017 21:14:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.192**	**.29435**	**.00042**	**129.21**	**.00184**
Stddev	.025	.00079	.00003	.69	.00045
%RSD	.15398	.26751	6.3607	.53731	24.241
#1	16.174	.29490	.00040	129.70	.00153
#2	16.209	.29379	.00044	128.72	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**6.2316**	**.00053**	**.00126**	**5.0606**
Stddev	.00154	.0153	.00077	.00066	.0323
%RSD	328.37	.24571	144.45	52.543	.63881
#1	-.00062	6.2425	-.00001	.00173	5.0834
#2	.00155	6.2208	.00107	.00079	5.0377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.29939**	**.00070**	**.00168**	**-.00032**
Stddev	.00022	.00050	.00030	.00098	.00027
%RSD	58.671	.16641	43.621	58.566	84.280
#1	-.00022	.29974	.00048	.00098	-.00013
#2	-.00053	.29904	.00091	.00237	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-2-b Acquired: 7/26/2017 21:14:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00554
Stddev	.00094
%RSD	17.046
#1	.00620
#2	.00487
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3325.2	2327.0	16418.	3143.7
Stddev	11.2	7.7	47.	24.7
%RSD	.33579	.33274	.28804	.78715
#1	3333.1	2332.5	16452.	3126.2
#2	3317.3	2321.5	16385.	3161.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.176%	96.552%	95.285%	98.704%
Range				

Sample Name: 480-121588-e-3-b Acquired: 7/26/2017 21:17:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	**.02337**	**-.00170**	**.01602**	**.15311**
Stddev	.00180	.00971	.00190	.00035	.00006
%RSD	204.26	41.550	111.64	2.2052	.04157
#1	-.00216	.01651	-.00304	.01627	.15307
#2	.00039	.03024	-.00036	.01577	.15316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**33.484**	**.00018**	**-.0005**	**-.00010**
Stddev	.00006	.061	.00008	.0130	.00005
%RSD	82.341	.18204	45.318	2696.	53.771
#1	-.00003	33.527	.00023	-.0097	-.00006
#2	-.00011	33.441	.00012	.0087	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00152**	**.01154**	**1.0422**	**.01487**
Stddev	.00058	.00043	.00056	.0306	.00238
%RSD	377.38	27.929	4.8523	2.9401	16.032
#1	.00056	.00122	.01194	1.0639	.01655
#2	-.00025	.00182	.01114	1.0205	.01318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-3-b Acquired: 7/26/2017 21:17:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.525**	**.16672**	**.00011**	**77.291**	**.00087**
Stddev	.030	.00031	.00003	.266	.00037
%RSD	.22046	.18379	26.145	.34418	43.065
#1	13.503	.16693	.00009	77.479	.00113
#2	13.546	.16650	.00014	77.103	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**6.3805**	**.00068**	**.00220**	**5.1970**
Stddev	.00103	.0174	.00022	.00253	.0033
%RSD	52.678	.27327	32.411	114.66	.06317
#1	.00268	6.3682	.00052	.00399	5.1947
#2	.00123	6.3929	.00083	.00042	5.1993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.18628**	**-.00014**	**.00181**	**-.00014**
Stddev	.00051	.00076	.00014	.00070	.00060
%RSD	96.220	.40801	102.46	38.353	431.36
#1	-.00088	.18682	-.00024	.00231	-.00057
#2	-.00017	.18574	-.00004	.00132	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-3-b Acquired: 7/26/2017 21:17:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00330**
Stddev	.00011
%RSD	3.3563
#1	.00337
#2	.00322
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3430.5**	**2352.1**	**16657.**	**3146.9**
Stddev	1.4	1.3	1.	8.3
%RSD	.03974	.05552	.00888	.26423
#1	3431.5	2353.0	16656.	3141.0
#2	3429.5	2351.2	16658.	3152.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.001%	97.592%	96.671%	98.806%
Range				

Sample Name: 480-121588-e-4-b Acquired: 7/26/2017 21:20:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00138**	**.04902**	**-.00008**	**.09005**	**.05596**
Stddev	.00042	.01181	.00200	.00042	.00005
%RSD	30.079	24.101	2635.7	.46785	.08078
#1	-.00167	.05738	-.00149	.09035	.05593
#2	-.00109	.04067	.00134	.08975	.05599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**16.312**	**.00004**	**-.0157**	**-.00004**
Stddev	.00004	.043	.00019	.0003	.00011
%RSD	71.164	.26207	517.44	2.136	280.09
#1	-.00003	16.343	-.00010	-.0160	.00004
#2	-.00009	16.282	.00017	-.0155	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00189**	**.02018**	**1.1076**	**.00002**
Stddev	.00012	.00124	.00285	.0022	.00060
%RSD	43.030	65.323	14.120	.19738	3117.8
#1	.00036	.00102	.01816	1.1060	.00044
#2	.00019	.00276	.02219	1.1091	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-4-b Acquired: 7/26/2017 21:20:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8137**	**.00536**	**-.00004**	**6.0992**	**.00044**
Stddev	.0083	.00005	.00012	.0133	.00002
%RSD	.29584	.97527	286.59	.21770	4.1133
#1	2.8078	.00533	-.00012	6.1086	.00045
#2	2.8196	.00540	.00004	6.0899	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**6.2585**	**.00007**	**.00027**	**4.0895**
Stddev	.00086	.0066	.00138	.00048	.0086
%RSD	128.55	.10511	2024.9	176.53	.21084
#1	.00006	6.2632	-.00091	.00062	4.0834
#2	.00128	6.2539	.00104	-.00007	4.0956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.07254**	**.00042**	**.00060**	**.00030**
Stddev	.00011	.00017	.00012	.00017	.00021
%RSD	26.628	.23425	28.271	27.830	69.616
#1	-.00035	.07266	.00033	.00071	.00015
#2	-.00051	.07242	.00050	.00048	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-4-b Acquired: 7/26/2017 21:20:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.03184**
Stddev	.00030
%RSD	.94205
#1	.03206
#2	.03163
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3690.3**	**2412.9**	**17240.**	**3169.5**
Stddev	2.3	.4	58.	10.3
%RSD	.06252	.01653	.33929	.32553
#1	3688.7	2412.6	17281.	3176.8
#2	3691.9	2413.1	17199.	3162.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.968%	100.11%	100.05%	99.514%
Range				

Sample Name: 480-121588-e-5-d Acquired: 7/26/2017 21:24:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.05888**	**.00086**	**.02350**	**.12337**
Stddev	.00030	.01415	.00091	.00043	.00029
%RSD	931.83	24.027	105.33	1.8353	.23297
#1	-.00025	.06888	.00022	.02380	.12358
#2	.00018	.04888	.00150	.02319	.12317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**29.358**	**.00013**	**-.0312**	**.00012**
Stddev	.00013	.255	.00012	.0303	.00017
%RSD	1735.6	.87008	94.293	97.24	148.29
#1	.00010	29.539	.00022	-.0526	-.00001
#2	-.00009	29.177	.00004	-.0097	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00164**	**.05015**	**1.0614**	**.01336**
Stddev	.00028	.00111	.00033	.0279	.00371
%RSD	225.39	67.667	.66625	2.6308	27.752
#1	.00032	.00242	.05038	1.0811	.01598
#2	-.00007	.00085	.04991	1.0416	.01073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d Acquired: 7/26/2017 21:24:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.355**	**.15975**	**.00009**	**98.867**	**.00171**
Stddev	.017	.00010	.00002	1.258	.00018
%RSD	.15008	.06350	20.773	1.2726	10.516
#1	11.367	.15982	.00011	99.756	.00184
#2	11.343	.15968	.00008	97.977	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**6.2427**	**-.00006**	**-.00068**	**5.0358**
Stddev	.00117	.0123	.00109	.00027	.0197
%RSD	194.70	.19686	1815.7	40.378	.39139
#1	.00142	6.2514	.00071	-.00087	5.0497
#2	-.00023	6.2340	-.00083	-.00048	5.0219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.17926**	**.00088**	**.00157**	**-.00012**
Stddev	.00023	.00181	.00028	.00087	.00004
%RSD	143.71	1.0120	31.418	55.256	29.400
#1	-.00032	.18054	.00069	.00096	-.00009
#2	.00000	.17797	.00108	.00218	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d Acquired: 7/26/2017 21:24:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00230**
Stddev	.00022
%RSD	9.6370
#1	.00246
#2	.00214
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3400.3**	**2348.2**	**16585.**	**3160.2**
Stddev	6.9	3.1	35.	39.0
%RSD	.20402	.13297	.21248	1.2327
#1	3405.2	2350.4	16560.	3132.6
#2	3395.4	2346.0	16610.	3187.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.190%	97.432%	96.251%	99.223%
Range				

Sample Name: 480-121588-e-5-dPDS Acquired: 7/26/2017 21:27:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09716**	**9.9487**	**.39572**	**.22667**	**.32876**
Stddev	.00039	.0568	.00390	.00042	.00065
%RSD	.40155	.57101	.98483	.18667	.19641
#1	.09743	9.9086	.39848	.22637	.32922
#2	.09688	9.9889	.39296	.22697	.32831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41467**	**48.029**	**.41884**	**-.0462**	**.39338**
Stddev	.00229	.291	.00035	.0188	.00012
%RSD	.55285	.60544	.08330	40.80	.03149
#1	.41305	47.823	.41860	-.0328	.39329
#2	.41629	48.234	.41909	-.0595	.39347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39318**	**.43467**	**19.920**	**11.537**	**.21938**
Stddev	.00041	.00077	.073	.005	.00035
%RSD	.10467	.17636	.36618	.04745	.16154
#1	.39347	.43413	19.869	11.541	.21963
#2	.39289	.43522	19.972	11.533	.21913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dPDS Acquired: 7/26/2017 21:27:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.678**	**.57149**	**.39146**	**106.15**	**.40290**
Stddev	.105	.00110	.00029	.34	.00044
%RSD	.33045	.19279	.07465	.31837	.10828
#1	31.753	.57227	.39125	105.91	.40259
#2	31.604	.57072	.39166	106.39	.40320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40761**	**16.096**	**.42211**	**.40649**	**5.0080**
Stddev	.00009	.011	.00205	.00298	.0350
%RSD	.02274	.06806	.48478	.73409	.69927
#1	.40767	16.088	.42066	.40860	4.9832
#2	.40754	16.103	.42356	.40438	5.0328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.37375**	**.39478**	**.39677**	**.40420**
Stddev	.00009	.00220	.00145	.00119	.00011
%RSD	13.323	.58746	.36787	.30004	.02755
#1	-.00076	.37220	.39581	.39762	.40412
#2	-.00063	.37530	.39376	.39593	.40428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dPDS Acquired: 7/26/2017 21:27:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.40706**
Stddev	.00325
%RSD	.79720
#1	.40935
#2	.40477
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3298.6**	**2338.3**	**16458.**	**3155.5**
Stddev	.5	3.0	33.	8.2
%RSD	.01611	.12932	.19882	.25836
#1	3298.3	2340.4	16435.	3161.3
#2	3299.0	2336.2	16481.	3149.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.465%	97.020%	95.515%	99.077%
Range				

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/26/2017 21:30:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.04779**	**-.00049**	**.00788**	**.02508**
Stddev	.00057	.01288	.00127	.00001	.00001
%RSD	361.59	26.949	260.93	.16321	.05950
#1	.00025	.05690	.00041	.00789	.02509
#2	-.00056	.03868	-.00139	.00787	.02507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**5.9994**	**.00003**	**-.0120**	**-.00009**
Stddev	.00001	.0586	.00005	.0254	.00007
%RSD	12.756	.97642	165.09	212.6	76.458
#1	-.00008	6.0409	.00007	-.0299	-.00014
#2	-.00007	5.9580	-.00001	.0060	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00017**	**.01144**	**.22008**	**.00196**
Stddev	.00006	.00043	.00250	.02802	.00274
%RSD	76.747	251.36	21.874	12.731	139.90
#1	.00004	-.00048	.00967	.23989	.00389
#2	.00012	.00013	.01321	.20027	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/26/2017 21:30:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2670**	**.03235**	**-.00002**	**19.561**	**-.00006**
Stddev	.0067	.00002	.00012	.194	.00039
%RSD	.29449	.06596	688.58	.99328	612.20
#1	2.2622	.03233	.00007	19.699	.00021
#2	2.2717	.03236	-.00010	19.424	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**1.1979**	**.00080**	**.00055**	**1.0397**
Stddev	.00091	.0017	.00051	.00140	.0189
%RSD	158.37	.13765	63.371	253.90	1.8182
#1	-.00007	1.1967	.00116	.00154	1.0263
#2	.00122	1.1990	.00044	-.00044	1.0531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.03621**	**.00059**	**.00068**	**.00023**
Stddev	.00005	.00058	.00028	.00156	.00065
%RSD	14.791	1.5951	46.796	227.93	281.34
#1	-.00027	.03662	.00039	.00179	-.00023
#2	-.00034	.03580	.00078	-.00042	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/26/2017 21:30:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00259
Stddev	.00017
%RSD	6.6031
#1	.00247
#2	.00271
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3590.2	2364.1	16809.	3076.9
Stddev	3.0	3.8	27.	18.8
%RSD	.08451	.16235	.16139	.61171
#1	3592.4	2366.8	16790.	3063.6
#2	3588.1	2361.4	16828.	3090.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.284%	98.089%	97.554%	96.607%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 21:34:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49883**	**25.606**	**.50236**	**.52912**	**.53253**
Stddev	.00386	.000	.00072	.00188	.00065
%RSD	.77394	.00149	.14292	.35488	.12231
#1	.49610	25.606	.50287	.53045	.53299
#2	.50156	25.605	.50186	.52779	.53207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53080**	**25.382**	**.52615**	**-.0404**	**.51315**
Stddev	.00091	.025	.00180	.0238	.00004
%RSD	.17100	.09776	.34274	59.02	.00848
#1	.53016	25.364	.52742	-.0235	.51318
#2	.53144	25.400	.52487	-.0572	.51311
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50597**	F **.55636**	**24.888**	F **27.725**	**.53926**
Stddev	.00257	.00004	.004	.003	.00437
%RSD	.50789	.00710	.01684	.01113	.81088
#1	.50416	.55638	24.891	27.727	.54236
#2	.50779	.55633	24.885	27.723	.53617
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value		.50000		25.000	
Range		10.000%		10.000%	

Sample Name: CCV-4147885 Acquired: 7/26/2017 21:34:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.229**	**.54336**	**.51283**	**26.786**	**.52257**
Stddev	.010	.00023	.00042	.003	.00047
%RSD	.03878	.04164	.08223	.01136	.09051
#1	26.236	.54352	.51312	26.783	.52291
#2	26.222	.54320	.51253	26.788	.52224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51170**	**25.944**	**.52551**	**.50997**	**24.603**
Stddev	.00338	.086	.00325	.00376	.057
%RSD	.66034	.33179	.61899	.73719	.23179
#1	.51409	26.005	.52781	.50732	24.563
#2	.50931	25.883	.52321	.51263	24.643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52435**	**.51212**	**.50833**	**.50973**	**.51024**
Stddev	.00030	.00097	.00184	.00003	.00142
%RSD	.05642	.18931	.36233	.00668	.27744
#1	.52414	.51280	.50703	.50976	.50924
#2	.52456	.51143	.50964	.50971	.51124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 21:34:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50776**
Stddev	.00020
%RSD	.03852
#1	.50763
#2	.50790
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3368.1**	**2349.7**	**16660.**	**3102.4**
Stddev	5.9	2.2	39.	10.5
%RSD	.17449	.09322	.23388	.33816
#1	3372.3	2351.2	16688.	3095.0
#2	3364.0	2348.1	16632.	3109.8

Sample Name: CCB-4130963 Acquired: 7/26/2017 21:37:38 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.03872**	**.00163**	**.00101**	**.00003**
Stddev	.00106	.00765	.00140	.00004	.00001
%RSD	1367.8	19.755	85.765	3.9060	34.409
#1	.00083	.03331	.00064	.00104	.00004
#2	-.00067	.04413	.00262	.00098	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00173**	**-.00016**	**-.0020**	**-.00009**
Stddev	.00001	.00371	.00008	.0094	.00010
%RSD	201.64	214.43	48.923	462.9	121.52
#1	-.00001	-.00089	-.00022	.0046	-.00016
#2	.00000	.00435	-.00011	-.0087	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00056**	**.00193**	**.05787**	**-.00183**
Stddev	.00014	.00063	.00080	.01894	.00026
%RSD	427.79	112.82	41.739	32.725	14.160
#1	.00013	.00100	.00250	.07126	-.00165
#2	-.00006	.00011	.00136	.04448	-.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 21:37:38 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00814**	**.00000**	**.00008**	**.00815**	**-.00001**
Stddev	.00214	.00002	.00003	.00597	.00020
%RSD	26.330	518.15	39.502	73.216	3401.9
#1	.00663	-.00001	.00010	.00393	.00014
#2	.00966	.00001	.00006	.01238	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00453**	**.00097**	**.00146**	**.03109**
Stddev	.00070	.00147	.00078	.00185	.00123
%RSD	210.70	32.510	80.534	126.94	3.9609
#1	.00082	.00349	.00153	.00015	.03196
#2	-.00016	.00557	.00042	.00276	.03022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00000**	**.00002**	**.00176**	**.00007**
Stddev	.00018	.00006	.00101	.00061	.00025
%RSD	45.918	1792.7	4887.7	34.439	331.78
#1	.00027	.00004	.00074	.00219	-.00010
#2	.00052	-.00005	-.00070	.00133	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 21:37:38 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00069
Stddev	.00018
%RSD	25.782
#1	.00057
#2	.00082
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3685.2	2374.0	16959.	3053.2
Stddev	.7	1.2	24.	7.7
%RSD	.01902	.04863	.14339	.25107
#1	3685.7	2373.2	16977.	3047.8
#2	3684.7	2374.8	16942.	3058.7

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:41:06 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00557**	**.23063**	**.01447**	**.02106**	**.00224**
Stddev	.00110	.00571	.00105	.00008	.00001
%RSD	19.674	2.4775	7.2640	.37280	.33705
#1	.00634	.23467	.01522	.02111	.00224
#2	.00479	.22659	.01373	.02100	.00225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.49631**	**.00225**	**-.0280**	**.00393**
Stddev	.00009	.00117	.00013	.0019	.00014
%RSD	4.1529	.23626	5.6124	6.955	3.5202
#1	.00213	.49714	.00234	-.0266	.00403
#2	.00201	.49548	.00216	-.0294	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**.01122**	**.04990**	**.56610**	**.02979**
Stddev	.00026	.00059	.00041	.01432	.00005
%RSD	6.5470	5.2240	.82580	2.5289	.15794
#1	.00379	.01163	.05019	.57622	.02982
#2	.00415	.01080	.04961	.55597	.02975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:41:06 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21333**	**.00317**	**.00976**	**1.0515**	**.00999**
Stddev	.00340	.00001	.00009	.0024	.00062
%RSD	1.5951	.16794	.91593	.22396	6.2198
#1	.21574	.00318	.00982	1.0499	.01043
#2	.21092	.00317	.00970	1.0532	.00956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01021**	**.19960**	**.01990**	**.02442**	**.49029**
Stddev	.00138	.00236	.00096	.00132	.01968
%RSD	13.541	1.1838	4.8082	5.3945	4.0144
#1	.01119	.19793	.02058	.02349	.50421
#2	.00923	.20127	.01923	.02535	.47637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00937**	**.00499**	**.00478**	**.02157**	**.00504**
Stddev	.00000	.00004	.00010	.00045	.00020
%RSD	.00022	.77909	2.0842	2.0869	3.8988
#1	.00937	.00502	.00470	.02125	.00518
#2	.00937	.00496	.00485	.02189	.00490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:41:06 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01106
Stddev	.00060
%RSD	5.4593
#1	.01148
#2	.01063
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3730.4	2413.7	17160.	3081.4
Stddev	4.8	2.4	12.	14.9
%RSD	.12755	.09795	.07082	.48408
#1	3733.7	2415.3	17169.	3070.9
#2	3727.0	2412.0	17152.	3092.0

Sample Name: 480-121588-e-5-e ms Acquired: 7/26/2017 21:44:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04461**	**10.403**	**.19260**	**.22536**	**.33317**
Stddev	.00022	.059	.00079	.00052	.00144
%RSD	.49688	.56597	.41035	.22955	.43304
#1	.04445	10.361	.19205	.22573	.33215
#2	.04476	10.445	.19316	.22500	.33419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20315**	**40.502**	**.20286**	**-.0139**	**.19151**
Stddev	.00155	.277	.00002	.0480	.00017
%RSD	.76459	.68420	.00995	345.4	.08712
#1	.20205	40.306	.20288	.0201	.19140
#2	.20425	40.698	.20285	-.0479	.19163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18586**	**.21705**	**10.164**	**11.754**	**.21703**
Stddev	.00089	.00032	.083	.092	.00110
%RSD	.47873	.14763	.81505	.78170	.50845
#1	.18649	.21682	10.106	11.689	.21625
#2	.18523	.21728	10.223	11.819	.21781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-e ms Acquired: 7/26/2017 21:44:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.124**	**.45387**	**.19216**	**110.68**	**.19998**
Stddev	.116	.00182	.00000	.24	.00047
%RSD	.52221	.40168	.00135	.21959	.23450
#1	22.042	.45258	.19216	110.51	.19965
#2	22.205	.45516	.19216	110.85	.20031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19981**	**16.306**	**.20012**	**.19682**	**15.385**
Stddev	.00082	.019	.00067	.00342	.137
%RSD	.41267	.11500	.33414	1.7380	.89034
#1	.19923	16.319	.19964	.19440	15.288
#2	.20039	16.293	.20059	.19924	15.482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20143**	**.37413**	**.19670**	**.19012**	**.19424**
Stddev	.00055	.00181	.00205	.00087	.00049
%RSD	.27202	.48378	1.0424	.45509	.25227
#1	.20104	.37285	.19525	.18951	.19389
#2	.20182	.37541	.19815	.19073	.19458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-e ms Acquired: 7/26/2017 21:44:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.19751
Stddev	.00120
%RSD	.60823
#1	.19666
#2	.19836
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3327.0	2356.9	16585.	3122.3
Stddev	2.1	1.1	19.	41.4
%RSD	.06360	.04768	.11729	1.3249
#1	3325.5	2356.1	16599.	3151.5
#2	3328.5	2357.7	16571.	3093.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.225%	97.791%	96.252%	98.032%
Range				

Sample Name: 480-121588-e-5-f msd Acquired: 7/26/2017 21:47:50 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04627**	**10.487**	**.19391**	**.22837**	**.33455**
Stddev	.00016	.045	.00017	.00051	.00057
%RSD	.35283	.43051	.08578	.22431	.17065
#1	.04616	10.455	.19402	.22801	.33495
#2	.04639	10.519	.19379	.22873	.33414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20352**	**40.489**	**.20496**	**-.0329**	**.19323**
Stddev	.00056	.076	.00003	.0309	.00019
%RSD	.27445	.18823	.01492	93.85	.09822
#1	.20391	40.542	.20498	-.0111	.19337
#2	.20312	40.435	.20493	-.0548	.19310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18964**	**.21611**	**10.189**	**11.733**	**.21881**
Stddev	.00136	.00037	.091	.077	.00121
%RSD	.71486	.16942	.89668	.65339	.55509
#1	.19059	.21637	10.254	11.788	.21967
#2	.18868	.21586	10.124	11.679	.21796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-f msd Acquired: 7/26/2017 21:47:50 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.230**	**.45428**	**.19505**	**110.00**	**.20106**
Stddev	.007	.00023	.00070	.80	.00071
%RSD	.03350	.05101	.35657	.72467	.35066
#1	22.235	.45412	.19554	110.57	.20156
#2	22.225	.45445	.19455	109.44	.20057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20266**	**16.471**	**.20204**	**.19798**	**15.351**
Stddev	.00077	.007	.00043	.00461	.067
%RSD	.37775	.04076	.21381	2.3267	.43564
#1	.20320	16.476	.20234	.20123	15.399
#2	.20212	16.466	.20173	.19472	15.304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20328**	**.37752**	**.19897**	**.19318**	**.19741**
Stddev	.00072	.00018	.00055	.00227	.00066
%RSD	.35555	.04655	.27440	1.1749	.33260
#1	.20380	.37764	.19936	.19478	.19787
#2	.20277	.37739	.19858	.19157	.19694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-f msd Acquired: 7/26/2017 21:47:50 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20043**
Stddev	.00068
%RSD	.33694
#1	.20091
#2	.19995
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3312.1**	**2344.4**	**16518.**	**3148.0**
Stddev	2.5	4.4	11.	4.2
%RSD	.07450	.18822	.06530	.13385
#1	3313.8	2347.5	16511.	3145.0
#2	3310.3	2341.2	16526.	3151.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.825%	97.271%	95.865%	98.839%
Range				

Sample Name: 480-121588-e-6-b Acquired: 7/26/2017 21:51:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.86768**	**.00263**	**.02963**	**.07447**
Stddev	.00037	.01905	.00036	.00081	.00019
%RSD	1015.9	2.1951	13.633	2.7381	.25154
#1	-.00022	.88115	.00237	.03020	.07434
#2	.00029	.85422	.00288	.02906	.07461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**20.443**	**.00020**	**-.0237**	**.00050**
Stddev	.00006	.066	.00008	.0392	.00010
%RSD	251.75	.32461	41.553	165.4	20.511
#1	.00002	20.396	.00025	-.0514	.00042
#2	-.00007	20.490	.00014	.0040	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**.01371**	**.83222**	**2.1689**	**.00867**
Stddev	.00043	.00020	.00279	.0472	.00079
%RSD	16.127	1.4930	.33480	2.1778	9.1450
#1	.00297	.01385	.83419	2.2023	.00923
#2	.00236	.01356	.83025	2.1355	.00811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-6-b Acquired: 7/26/2017 21:51:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4787**	**.36840**	**.00193**	**13.292**	**.00303**
Stddev	.0300	.00229	.00003	.018	.00018
%RSD	.40167	.62045	1.6009	.13748	5.9693
#1	7.4574	.36678	.00190	13.305	.00290
#2	7.4999	.37002	.00195	13.279	.00315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00349**	**7.4229**	**-.00020**	**.00271**	**7.9021**
Stddev	.00017	.0081	.00083	.00268	.0623
%RSD	4.8409	.10867	410.02	98.659	.78771
#1	.00361	7.4172	.00038	.00460	7.8581
#2	.00337	7.4287	-.00079	.00082	7.9461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.08738**	**.02220**	**.00129**	**.00184**
Stddev	.00016	.00021	.00100	.00097	.00037
%RSD	281.39	.24159	4.5057	75.214	19.852
#1	.00006	.08723	.02291	.00197	.00210
#2	-.00017	.08753	.02149	.00060	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-6-b Acquired: 7/26/2017 21:51:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01204**
Stddev	.00047
%RSD	3.9377
#1	.01170
#2	.01237
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3631.8**	**2420.1**	**17182.**	**3199.0**
Stddev	11.7	7.4	122.	1.8
%RSD	.32281	.30527	.70733	.05570
#1	3640.1	2425.4	17268.	3197.7
#2	3623.5	2414.9	17097.	3200.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.400%	100.42%	99.720%	100.44%
Range				

Sample Name: 480-121588-e-7-b Acquired: 7/26/2017 21:54:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.20149**	**.00121**	**.01938**	**.15744**
Stddev	.00022	.01312	.00060	.00033	.00042
%RSD	22.518	6.5125	49.357	1.7075	.26485
#1	-.00113	.21077	.00079	.01962	.15774
#2	-.00082	.19221	.00164	.01915	.15715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**29.259**	**.00007**	**-.0224**	**.00009**
Stddev	.00007	.109	.00004	.0187	.00013
%RSD	96.353	.37286	59.999	83.63	145.80
#1	-.00002	29.336	.00004	-.0092	-.00000
#2	-.00013	29.182	.00010	-.0357	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00027**	**.21235**	**1.0177**	**.00640**
Stddev	.00017	.00057	.00332	.0379	.00131
%RSD	63.072	211.77	1.5626	3.7213	20.402
#1	.00038	.00068	.21469	.99091	.00547
#2	.00015	-.00013	.21000	1.0445	.00732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-7-b Acquired: 7/26/2017 21:54:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.779**	**.14744**	**.00014**	**107.13**	**.00140**
Stddev	.045	.00018	.00024	.09	.00001
%RSD	.42161	.12065	171.70	.08254	.87092
#1	10.811	.14757	.00031	107.20	.00139
#2	10.747	.14732	-.00003	107.07	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**5.9161**	**-.00000**	**.00242**	**4.0423**
Stddev	.00182	.0217	.00051	.00039	.0243
%RSD	134.81	.36732	13919.	16.201	.60117
#1	.00263	5.9007	-.00037	.00269	4.0595
#2	.00006	5.9315	.00036	.00214	4.0251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.18844**	**.00318**	**.00074**	**-.00050**
Stddev	.00027	.00042	.00062	.00004	.00011
%RSD	152.96	.22240	19.374	4.7022	21.321
#1	-.00037	.18873	.00274	.00077	-.00058
#2	.00001	.18814	.00361	.00072	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-7-b Acquired: 7/26/2017 21:54:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01349**
Stddev	.00015
%RSD	1.1180
#1	.01338
#2	.01359
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3395.0**	**2351.4**	**16582.**	**3141.5**
Stddev	5.3	5.1	27.	4.2
%RSD	.15615	.21641	.16565	.13490
#1	3398.8	2355.0	16563.	3144.5
#2	3391.3	2347.8	16602.	3138.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.050%	97.563%	96.237%	98.636%
Range				

Sample Name: 480-121588-e-8-b Acquired: 7/26/2017 21:57:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.03676**	**.00107**	**.00542**	**.00021**
Stddev	.00007	.00285	.00044	.00017	.00003
%RSD	16.129	7.7425	41.573	3.1245	14.942
#1	-.00037	.03877	.00138	.00530	.00023
#2	-.00047	.03475	.00075	.00554	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.06798**	**.00004**	**-.0292**	**.00001**
Stddev	.00008	.00051	.00005	.0111	.00007
%RSD	189.72	.75048	151.49	38.10	690.06
#1	-.00009	.06834	-.00000	-.0213	.00006
#2	.00001	.06762	.00007	-.0371	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00034**	**.00270**	**.09716**	**.00072**
Stddev	.00030	.00034	.00170	.05432	.00004
%RSD	201.21	100.66	63.146	55.907	4.8533
#1	-.00006	.00059	.00390	.13557	.00070
#2	.00036	.00010	.00149	.05875	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-8-b Acquired: 7/26/2017 21:57:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00728**	**.00102**	**-.00008**	**.01577**	**-.00010**
Stddev	.00245	.00001	.00007	.00121	.00025
%RSD	33.614	.64890	79.929	7.6785	246.07
#1	.00901	.00101	-.00004	.01491	.00007
#2	.00555	.00102	-.00013	.01662	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.00917**	**-.00045**	**.00300**	**.00756**
Stddev	.00072	.00318	.00031	.00031	.01644
%RSD	75.878	34.667	67.911	10.439	217.40
#1	.00044	.00693	-.00067	.00278	-.00406
#2	.00145	.01142	-.00024	.00323	.01919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00024**	**.00013**	**.00090**	**.00032**
Stddev	.00007	.00006	.00064	.00038	.00044
%RSD	12.534	23.340	486.20	42.500	138.49
#1	-.00054	.00028	.00059	.00117	.00001
#2	-.00064	.00020	-.00032	.00063	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-8-b Acquired: 7/26/2017 21:57:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00130**
Stddev	.00014
%RSD	10.898
#1	.00140
#2	.00120
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3793.8**	**2436.5**	**17401.**	**3161.0**
Stddev	4.9	2.1	106.	9.2
%RSD	.13034	.08637	.61025	.29126
#1	3797.3	2438.0	17476.	3167.5
#2	3790.3	2435.0	17326.	3154.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.74%	101.09%	100.99%	99.249%
Range				

Sample Name: 480-121599-c-3-b Acquired: 7/26/2017 22:01:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**.09610**	**.00143**	**.01492**	**.15234**
Stddev	.00022	.00777	.00056	.00010	.00023
%RSD	35.829	8.0892	39.332	.70245	.15341
#1	-.00076	.09061	.00182	.01499	.15217
#2	-.00045	.10160	.00103	.01484	.15250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**24.830**	**-.00010**	**-.0158**	**-.00007**
Stddev	.00006	.087	.00007	.0381	.00003
%RSD	69.247	.34893	69.106	241.4	41.293
#1	.00012	24.891	-.00005	-.0428	-.00005
#2	.00004	24.769	-.00014	.0112	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.00539**	**.15845**	**3.2141**	**.00285**
Stddev	.00063	.00051	.00565	.0038	.00287
%RSD	30.266	9.4017	3.5648	.11697	100.66
#1	.00164	.00575	.16245	3.2168	.00082
#2	.00253	.00503	.15446	3.2115	.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121599-c-3-b Acquired: 7/26/2017 22:01:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2710**	**.00557**	**-.00012**	**3.6482**	**.00107**
Stddev	.0175	.00000	.00003	.0264	.00030
%RSD	.40915	.02179	27.355	.72449	27.664
#1	4.2586	.00557	-.00014	3.6669	.00086
#2	4.2833	.00557	-.00009	3.6295	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	**3.6400**	**.00033**	**.00211**	**5.7091**
Stddev	.00052	.0055	.00016	.00064	.0165
%RSD	21.873	.15076	48.842	30.149	.28922
#1	.00273	3.6438	.00021	.00256	5.7208
#2	.00200	3.6361	.00044	.00166	5.6974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.30385**	**.01292**	**.00026**	**.00093**
Stddev	.00033	.00089	.00035	.00092	.00032
%RSD	1414.9	.29174	2.7392	358.58	35.062
#1	-.00026	.30448	.01317	-.00039	.00116
#2	.00021	.30322	.01266	.00091	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121599-c-3-b Acquired: 7/26/2017 22:01:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01236
Stddev	.00070
%RSD	5.6240
#1	.01187
#2	.01285
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3659.7	2412.3	17068.	3167.8
Stddev	1.9	.6	72.	6.4
%RSD	.05198	.02690	.42029	.20129
#1	3661.0	2411.9	17118.	3163.2
#2	3658.3	2412.8	17017.	3172.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.147%	100.09%	99.054%	99.460%
Range				

Sample Name: 480-121622-b-1-a Acquired: 7/26/2017 22:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.04588**	**.00067**	**.83396**	**.16488**
Stddev	.00028	.02336	.00094	.00079	.00031
%RSD	77.044	50.915	139.48	.09495	.18589
#1	-.00055	.02936	.00001	.83452	.16509
#2	-.00016	.06239	.00134	.83340	.16466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**104.01**	**.00052**	**-.0270**	**.00265**
Stddev	.00004	.05	.00006	.0029	.00005
%RSD	80.280	.04796	11.980	10.61	2.0416
#1	-.00002	103.97	.00056	-.0250	.00261
#2	-.00008	104.04	.00047	-.0291	.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.00159**	**24.631**	**57.174**	**.06203**
Stddev	.00094	.00072	.004	.036	.00072
%RSD	45.633	45.467	.01718	.06356	1.1528
#1	.00271	.00108	24.634	57.148	.06153
#2	.00139	.00210	24.628	57.200	.06254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-1-a Acquired: 7/26/2017 22:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**71.729**	**.19916**	**-.00037**	**65.251**	**.01184**
Stddev	.225	.00094	.00004	.732	.00018
%RSD	.31371	.47412	9.6735	1.1212	1.5467
#1	71.888	.19982	-.00039	64.733	.01171
#2	71.570	.19849	-.00034	65.768	.01197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00437**	**1.3672**	**-.00114**	**.00064**	**8.0380**
Stddev	.00047	.0084	.00109	.00260	.0296
%RSD	10.667	.61125	95.213	407.39	.36868
#1	.00404	1.3613	-.00037	.00248	8.0170
#2	.00470	1.3731	-.00191	-.00120	8.0590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00246**	**.17199**	**.00127**	**.00094**	**.00092**
Stddev	.00106	.00046	.00028	.00017	.00001
%RSD	43.255	.26625	22.105	18.066	.76260
#1	.00321	.17167	.00108	.00082	.00093
#2	.00171	.17231	.00147	.00106	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-1-a Acquired: 7/26/2017 22:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00857
Stddev	.00037
%RSD	4.3696
#1	.00830
#2	.00883
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3239.9	2311.0	16393.	3119.7
Stddev	5.0	5.8	3.	1.7
%RSD	.15494	.25045	.01815	.05317
#1	3243.5	2315.1	16391.	3118.5
#2	3236.4	2306.9	16395.	3120.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.889%	95.888%	95.140%	97.951%
Range				

Sample Name: 480-121622-b-2-a Acquired: 7/26/2017 22:08:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00238**	**.06719**	**.00234**	**.55448**	**.45206**
Stddev	.00240	.00871	.00010	.00154	.00171
%RSD	100.57	12.959	4.4639	.27764	.37731
#1	.00408	.06103	.00226	.55339	.45086
#2	.00069	.07334	.00241	.55557	.45327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**160.04**	**.00024**	**-.0061**	**.00181**
Stddev	.00002	.16	.00002	.0423	.00013
%RSD	21.497	.09724	10.287	696.3	7.3176
#1	-.00010	160.15	.00025	.0238	.00172
#2	-.00008	159.93	.00022	-.0360	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00624**	**26.722**	**41.631**	**.00636**
Stddev	.00050	.00106	.024	.051	.00063
%RSD	40.592	16.927	.09098	.12333	9.8784
#1	.00159	.00699	26.705	41.667	.00681
#2	.00088	.00549	26.739	41.595	.00592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-2-a Acquired: 7/26/2017 22:08:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**85.032**	**.12691**	**.00086**	**43.200**	**.00599**
Stddev	.348	.00084	.00006	.112	.00032
%RSD	.40916	.65977	6.5143	.25882	5.2789
#1	84.786	.12632	.00082	43.279	.00621
#2	85.278	.12751	.00090	43.121	.00576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00241**	**1.1728**	**-.00145**	**-.00302**	**10.742**
Stddev	.00070	.0034	.00098	.00293	.035
%RSD	29.244	.29186	67.215	96.950	.32268
#1	.00191	1.1704	-.00214	-.00095	10.766
#2	.00291	1.1752	-.00076	-.00509	10.717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00152**	**.45753**	**.00163**	**.00168**	**.00023**
Stddev	.00031	.00213	.00022	.00079	.00015
%RSD	20.382	.46500	13.441	47.197	64.184
#1	.00174	.45903	.00179	.00225	.00012
#2	.00130	.45603	.00148	.00112	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-2-a Acquired: 7/26/2017 22:08:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01954**
Stddev	.00108
%RSD	5.5231
#1	.02030
#2	.01877
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3198.9**	**2288.7**	**16292.**	**3108.3**
Stddev	6.5	6.8	63.	28.7
%RSD	.20192	.29763	.38442	.92252
#1	3203.5	2293.5	16337.	3128.6
#2	3194.3	2283.9	16248.	3088.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.790%	94.962%	94.554%	97.595%
Range				

Sample Name: 480-121622-b-3-a Acquired: 7/26/2017 22:11:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.05935**	**.00402**	**2.2941**	**.01727**
Stddev	.00090	.00662	.00099	.0001	.00002
%RSD	158.60	11.153	24.722	.00216	.12518
#1	.00007	.05467	.00332	2.2940	.01728
#2	-.00121	.06403	.00472	2.2941	.01725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**8.8004**	**.00030**	**-.0359**	**.00882**
Stddev	.00003	.0295	.00015	.0219	.00009
%RSD	32.132	.33512	49.619	60.89	1.0598
#1	-.00010	8.8213	.00040	-.0514	.00876
#2	-.00006	8.7796	.00019	-.0204	.00889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00250**	**.00348**	**12.123**	**174.59**	**.00822**
Stddev	.00079	.00004	.064	1.32	.00047
%RSD	31.394	1.2017	.52959	.75419	5.7555
#1	.00306	.00351	12.169	175.52	.00855
#2	.00195	.00345	12.078	173.66	.00788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-3-a Acquired: 7/26/2017 22:11:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**96.784**	**.06466**	**.00061**	**379.84**	**.02648**
Stddev	.280	.00038	.00013	1.86	.00055
%RSD	.28893	.58131	21.937	.49065	2.0585
#1	96.982	.06492	.00051	381.15	.02686
#2	96.586	.06439	.00070	378.52	.02609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**2.7321**	**.00259**	**.00365**	**1.2795**
Stddev	.00114	.0072	.00012	.00704	.0050
%RSD	95.374	.26513	4.4789	192.84	.39448
#1	.00200	2.7372	.00251	-.00133	1.2830
#2	.00039	2.7269	.00267	.00862	1.2759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00314**	**.09814**	**.00160**	**.00094**	**-.00046**
Stddev	.00024	.00032	.00005	.00026	.00030
%RSD	7.7851	.32758	3.0553	27.700	65.652
#1	.00297	.09837	.00164	.00075	-.00025
#2	.00331	.09791	.00157	.00112	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-3-a Acquired: 7/26/2017 22:11:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01545**
Stddev	.00067
%RSD	4.3480
#1	.01593
#2	.01498
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3057.7**	**2257.9**	**15835.**	**3139.2**
Stddev	2.2	2.9	48.	6.2
%RSD	.07127	.12891	.30524	.19742
#1	3059.3	2259.9	15801.	3143.6
#2	3056.2	2255.8	15869.	3134.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.004%	93.683%	91.900%	98.563%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:15:04 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50072**	**25.586**	**.49642**	**.53343**	**.53320**
Stddev	.00468	.107	.00530	.00055	.00190
%RSD	.93525	.41865	1.0669	.10218	.35594
#1	.49741	25.510	.49268	.53304	.53186
#2	.50403	25.662	.50017	.53381	.53454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53048**	**25.337**	**.52593**	**-.0184**	**.51285**
Stddev	.00203	.048	.00132	.0055	.00101
%RSD	.38199	.18973	.25119	30.06	.19750
#1	.52905	25.303	.52500	-.0223	.51213
#2	.53192	25.371	.52686	-.0145	.51357
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50850**	F **.56047**	**24.660**	F **27.607**	**.54101**
Stddev	.00122	.00125	.093	.141	.00235
%RSD	.23928	.22256	.37525	.51200	.43430
#1	.50764	.56135	24.594	27.508	.53935
#2	.50936	.55959	24.725	27.707	.54267
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value		.50000		25.000	
Range		10.000%		10.000%	

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:15:04 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.261**	**.54596**	**.51009**	**26.720**	**.52237**
Stddev	.102	.00202	.00054	.118	.00101
%RSD	.39020	.36960	.10660	.44146	.19283
#1	26.189	.54453	.50971	26.637	.52166
#2	26.334	.54739	.51048	26.804	.52308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50908**	**25.962**	**.52877**	**.51082**	**24.521**
Stddev	.00111	.060	.00089	.00275	.076
%RSD	.21761	.22961	.16820	.53761	.31081
#1	.50986	25.920	.52814	.51276	24.468
#2	.50830	26.004	.52940	.50888	24.575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52193**	**.51145**	**.50878**	**.50488**	**.51221**
Stddev	.00013	.00165	.00050	.00051	.00171
%RSD	.02415	.32165	.09872	.10173	.33338
#1	.52184	.51029	.50843	.50524	.51101
#2	.52202	.51262	.50914	.50452	.51342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:15:04 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51122
Stddev	.00343
%RSD	.67035
#1	.50880
#2	.51365
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3358.9	2342.2	16461.	3094.0
Stddev	1.8	.1	123.	17.2
%RSD	.05350	.00399	.74787	.55640
#1	3357.6	2342.3	16548.	3106.2
#2	3360.1	2342.2	16374.	3081.8

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:18:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01332**	**-.00044**	**.00305**	**.00004**
Stddev	.00079	.00418	.00037	.00024	.00002
%RSD	1138.2	31.348	85.025	7.9598	42.026
#1	.00049	.01628	-.00070	.00322	.00005
#2	-.00063	.01037	-.00018	.00288	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00081**	**.00003**	**-.0184**	**-.00009**
Stddev	.00001	.00348	.00015	.0286	.00005
%RSD	56.810	431.83	490.71	155.4	52.358
#1	-.00003	-.00327	.00013	.0018	-.00006
#2	-.00001	.00166	-.00007	-.0386	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00005**	**.00303**	**.11721**	**.00153**
Stddev	.00028	.00008	.00050	.01290	.00169
%RSD	335.18	158.39	16.540	11.008	110.70
#1	-.00028	-.00010	.00338	.12633	.00273
#2	.00012	.00001	.00267	.10809	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:18:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00429**	**-.00000**	**.00009**	**.01943**	**.00012**
Stddev	.00196	.00001	.00022	.00605	.00002
%RSD	45.664	326.16	237.46	31.145	19.804
#1	.00568	.00000	.00025	.02371	.00014
#2	.00291	-.00001	-.00006	.01515	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00342**	**-.00015**	**.00035**	**.02436**
Stddev	.00111	.00081	.00053	.00059	.01200
%RSD	18588.	23.672	366.17	166.84	49.248
#1	-.00079	.00399	-.00052	-.00006	.01588
#2	.00078	.00285	.00023	.00077	.03284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.00007**	**-.00027**	**.00101**	**-.00009**
Stddev	.00033	.00005	.00006	.00068	.00025
%RSD	101.10	75.676	21.713	67.573	280.39
#1	-.00009	-.00011	-.00023	.00149	.00009
#2	-.00057	-.00003	-.00032	.00053	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:18:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00112
Stddev	.00035
%RSD	30.840
#1	.00088
#2	.00137
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3677.6	2369.2	16827.	3066.1
Stddev	7.6	6.5	119.	24.9
%RSD	.20690	.27460	.70512	.81279
#1	3672.2	2364.6	16743.	3048.5
#2	3683.0	2373.8	16911.	3083.7

Sample Name: CCVL-4147888 Acquired: 7/26/2017 22:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00604**	**.21382**	**.01336**	**.02201**	**.00223**
Stddev	.00004	.00700	.00088	.00024	.00002
%RSD	.64652	3.2729	6.5590	1.1056	.69656
#1	.00606	.20887	.01274	.02183	.00225
#2	.00601	.21877	.01398	.02218	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49213**	**.00214**	**-.0398**	**.00384**
Stddev	.00010	.00334	.00009	.0433	.00003
%RSD	5.2747	.67866	4.3893	108.8	.70399
#1	.00200	.49449	.00208	-.0092	.00382
#2	.00186	.48976	.00221	-.0704	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.01089**	**.05093**	**.59665**	**.03234**
Stddev	.00004	.00017	.00457	.03568	.00041
%RSD	.87412	1.6029	8.9775	5.9805	1.2528
#1	.00451	.01077	.04770	.57142	.03205
#2	.00445	.01102	.05417	.62188	.03263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 22:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21030**	**.00311**	**.00995**	**1.0377**	**.01014**
Stddev	.00078	.00009	.00013	.0052	.00064
%RSD	.36899	2.7714	1.3393	.49938	6.3053
#1	.21084	.00305	.01005	1.0414	.01059
#2	.20975	.00317	.00986	1.0340	.00969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01011**	**.19711**	**.02139**	**.02532**	**.50443**
Stddev	.00010	.00125	.00169	.00158	.00810
%RSD	.97741	.63513	7.9096	6.2255	1.6052
#1	.01018	.19623	.02020	.02421	.49870
#2	.01004	.19800	.02259	.02644	.51016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00896**	**.00497**	**.00485**	**.02034**	**.00451**
Stddev	.00003	.00004	.00005	.00117	.00035
%RSD	.34365	.85697	1.0992	5.7303	7.8033
#1	.00894	.00494	.00481	.02117	.00475
#2	.00898	.00500	.00489	.01952	.00426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 22:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01093
Stddev	.00050
%RSD	4.5909
#1	.01057
#2	.01128
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3712.7	2399.2	17121.	3094.7
Stddev	3.2	2.4	14.	4.9
%RSD	.08739	.09817	.08078	.15766
#1	3715.0	2400.9	17131.	3098.2
#2	3710.4	2397.6	17111.	3091.3

Sample Name: 480-121622-b-4-a Acquired: 7/26/2017 22:25:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.06811**	**.00118**	**.84595**	**.07376**
Stddev	.00202	.02310	.00087	.00017	.00016
%RSD	824.86	33.919	73.865	.02065	.21702
#1	-.00167	.08444	.00056	.84582	.07364
#2	.00118	.05177	.00179	.84607	.07387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**90.824**	**.00025**	**-.0226**	**.00235**
Stddev	.00003	.130	.00002	.0507	.00010
%RSD	21.592	.14335	8.1592	224.2	4.3157
#1	-.00012	90.916	.00027	.0132	.00242
#2	-.00016	90.732	.00024	-.0584	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**.00735**	**30.518**	**42.907**	**.20693**
Stddev	.00008	.00045	.090	.156	.00041
%RSD	3.1631	6.1018	.29609	.36291	.19779
#1	.00256	.00703	30.582	43.017	.20665
#2	.00245	.00767	30.454	42.797	.20722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-4-a Acquired: 7/26/2017 22:25:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.189**	**.14724**	**.00048**	**47.172**	**.01051**
Stddev	.140	.00018	.00017	.026	.00015
%RSD	.20569	.11888	35.296	.05528	1.3866
#1	68.090	.14712	.00036	47.190	.01041
#2	68.288	.14736	.00060	47.153	.01062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00463**	**1.2634**	**.00067**	**.00298**	**7.5790**
Stddev	.00089	.0042	.00103	.00125	.0224
%RSD	19.323	.32890	152.07	41.906	.29580
#1	.00526	1.2664	-.00005	.00387	7.5949
#2	.00399	1.2605	.00140	.00210	7.5632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00231**	**.12970**	**.00201**	**.00112**	**.00074**
Stddev	.00015	.00021	.00003	.00122	.00052
%RSD	6.3837	.16528	1.3051	108.39	70.833
#1	.00221	.12985	.00202	.00026	.00037
#2	.00242	.12955	.00199	.00198	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-4-a Acquired: 7/26/2017 22:25:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07452
Stddev	.00077
%RSD	1.0379
#1	.07398
#2	.07507
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3273.3	2318.4	16452.	3137.7
Stddev	3.0	.2	54.	11.6
%RSD	.09048	.00896	.32904	.37060
#1	3275.4	2318.5	16490.	3129.5
#2	3271.2	2318.2	16414.	3146.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.785%	96.194%	95.480%	98.518%
Range				

Sample Name: 480-121624-a-1-a Acquired: 7/26/2017 22:28:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.07603**	**.00304**	**.11035**	**.03012**
Stddev	.00041	.01360	.00252	.00028	.00017
%RSD	149.84	17.884	83.149	.25767	.57572
#1	-.00056	.08564	.00482	.11055	.03024
#2	.00002	.06641	.00125	.11015	.03000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**534.31**	**.00050**	**.0018**	**.00080**
Stddev	.00001	1.34	.00011	.0232	.00006
%RSD	3.0716	.25128	22.514	1285.	7.2623
#1	-.00018	533.36	.00042	.0182	.00075
#2	-.00018	535.26	.00058	-.0146	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00413**	**3.1758**	**11.723**	**.07212**
Stddev	.00096	.00123	.0220	.025	.00075
%RSD	59.859	29.815	.69264	.21306	1.0371
#1	.00092	.00326	3.1602	11.705	.07265
#2	.00227	.00500	3.1913	11.741	.07159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121624-a-1-a Acquired: 7/26/2017 22:28:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**165.89**	**1.4964**	**.00215**	**85.164**	**.00523**
Stddev	.71	.0043	.00029	.080	.00058
%RSD	.43081	.28691	13.584	.09404	11.051
#1	166.39	1.4994	.00236	85.107	.00563
#2	165.38	1.4934	.00194	85.220	.00482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	F **546.99**	**-.00134**	**-.00161**	**10.091**
Stddev	.00111	1.00	.00062	.00279	.029
%RSD	212.78	.18291	46.170	173.66	.29151
#1	.00130	546.28	-.00178	.00037	10.071
#2	-.00026	547.70	-.00090	-.00358	10.112
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**1.0101**	**.00089**	**.00198**	**-.00099**
Stddev	.00056	.0021	.00021	.00131	.00010
%RSD	115.83	.20406	23.780	66.256	10.388
#1	-.00088	1.0086	.00104	.00291	-.00107
#2	-.00009	1.0115	.00074	.00105	-.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121624-a-1-a Acquired: 7/26/2017 22:28:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02208
Stddev	.00086
%RSD	3.8869
#1	.02269
#2	.02148
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2944.0	2143.7	15463.	3037.2
Stddev	1.5	3.4	23.	1.9
%RSD	.04942	.15769	.14981	.06403
#1	2945.0	2146.0	15479.	3038.5
#2	2943.0	2141.3	15446.	3035.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.953%	88.944%	89.739%	95.360%
Range				

Sample Name: 480-121634-d-1-a Acquired: 7/26/2017 22:32:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**1.5463**	**.00184**	**.02947**	**.08916**
Stddev	.00094	.0250	.00057	.00019	.00024
%RSD	371.63	1.6153	30.766	.64396	.27080
#1	.00041	1.5640	.00144	.02960	.08933
#2	-.00092	1.5286	.00224	.02933	.08899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**230.06**	**.00032**	**-.0341**	**.00194**
Stddev	.00005	.28	.00002	.0063	.00003
%RSD	30.703	.11995	7.2464	18.35	1.5353
#1	.00012	230.25	.00031	-.0297	.00192
#2	.00018	229.86	.00034	-.0385	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00581**	**.01876**	**8.3053**	**13.825**	**-.00045**
Stddev	.00030	.00147	.0160	.044	.00167
%RSD	5.2293	7.8609	.19316	.31841	372.97
#1	.00603	.01980	8.3167	13.793	-.00163
#2	.00560	.01772	8.2940	13.856	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121634-d-1-a Acquired: 7/26/2017 22:32:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.639**	**.78337**	**.00150**	**99.179**	**.00918**
Stddev	.043	.00047	.00008	.426	.00005
%RSD	.34004	.05986	5.2759	.42967	.51619
#1	12.669	.78370	.00155	99.480	.00915
#2	12.608	.78304	.00144	98.877	.00921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01446**	**4.4778**	**.00086**	**.00195**	**5.0240**
Stddev	.00042	.0021	.00256	.00210	.0072
%RSD	2.8977	.04716	299.30	107.77	.14307
#1	.01476	4.4763	-.00096	.00343	5.0290
#2	.01417	4.4793	.00267	.00046	5.0189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.29525**	**.02192**	**.00073**	**.00513**
Stddev	.00015	.00002	.00080	.00091	.00053
%RSD	18.763	.00746	3.6341	124.28	10.292
#1	.00071	.29524	.02249	.00137	.00551
#2	.00093	.29527	.02136	.00009	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121634-d-1-a Acquired: 7/26/2017 22:32:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.39870**
Stddev	.00115
%RSD	.28852
#1	.39789
#2	.39952
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3196.5**	**2300.1**	**16408.**	**3183.1**
Stddev	1.4	1.0	25.	7.7
%RSD	.04516	.04488	.15492	.24099
#1	3195.5	2299.3	16426.	3188.5
#2	3197.5	2300.8	16390.	3177.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.725%	95.433%	95.225%	99.941%
Range				

Sample Name: 480-121613-d-1-a Acquired: 7/26/2017 22:35:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**.09123**	**.09515**	**11.312**	**.26322**
Stddev	.00062	.02687	.00088	.007	.00045
%RSD	68.280	29.455	.92940	.06139	.17127
#1	-.00047	.07223	.09577	11.317	.26354
#2	-.00136	.11024	.09452	11.307	.26290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**102.68**	**.00029**	**-.0384**	**.02872**
Stddev	.00009	.57	.00016	.0046	.00009
%RSD	150.52	.55421	54.076	11.97	.32769
#1	-.00000	102.27	.00018	-.0416	.02866
#2	.00012	103.08	.00041	-.0351	.02879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08982**	**.00127**	**6.1369**	**515.47**	**.05910**
Stddev	.00008	.00107	.0295	.47	.00104
%RSD	.08433	84.336	.48073	.09063	1.7576
#1	.08977	.00203	6.1160	515.14	.05836
#2	.08987	.00051	6.1577	515.80	.05983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-1-a Acquired: 7/26/2017 22:35:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.929**	**.27851**	**.00495**	**1438.8**	**.20203**
Stddev	.336	.00086	.00011	3.8	.00013
%RSD	.39558	.30926	2.3219	.26753	.06638
#1	85.167	.27912	.00487	1436.1	.20193
#2	84.691	.27790	.00503	1441.5	.20212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00242**	**17.426**	**.00932**	**.00478**	**10.833**
Stddev	.00087	.036	.00113	.00308	.092
%RSD	35.825	.20762	12.118	64.438	.84817
#1	.00303	17.451	.01012	.00696	10.768
#2	.00181	17.400	.00852	.00260	10.898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01396**	**.85426**	**.05147**	**-.00058**	**.07321**
Stddev	.00011	.00157	.00008	.00011	.00010
%RSD	.76183	.18360	.15534	18.952	.14114
#1	.01389	.85315	.05153	-.00065	.07314
#2	.01404	.85537	.05142	-.00050	.07328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-1-a Acquired: 7/26/2017 22:35:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04486**
Stddev	.00022
%RSD	.49647
#1	.04470
#2	.04502
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2683.4**	**2107.7**	**14748.**	**3095.4**
Stddev	2.8	.0	14.	13.5
%RSD	.10263	.00187	.09724	.43659
#1	2685.3	2107.7	14738.	3104.9
#2	2681.4	2107.7	14758.	3085.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.965%	87.452%	85.591%	97.187%
Range				

Sample Name: 480-121613-d-2-a Acquired: 7/26/2017 22:38:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.17381**	**.08910**	**12.269**	**.39889**
Stddev	.00094	.02325	.00006	.009	.00044
%RSD	120.72	13.375	.06994	.07100	.11003
#1	-.00011	.19024	.08914	12.263	.39858
#2	-.00144	.15737	.08905	12.275	.39920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**114.16**	**.00022**	**-.0341**	**.03118**
Stddev	.00002	.40	.00001	.0181	.00034
%RSD	44.325	.35411	6.5500	53.23	1.0985
#1	-.00007	113.88	.00023	-.0469	.03094
#2	-.00003	114.45	.00021	-.0213	.03142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10460**	**.00348**	**9.7910**	F **545.33**	**.06511**
Stddev	.00088	.00052	.0208	.05	.00107
%RSD	.84023	15.052	.21273	.00968	1.6499
#1	.10522	.00385	9.7763	545.37	.06435
#2	.10398	.00311	9.8057	545.29	.06586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-121613-d-2-a Acquired: 7/26/2017 22:38:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**91.968**	**.29589**	**.00562**	**1562.7**	**.21872**
Stddev	.076	.00028	.00006	2.5	.00015
%RSD	.08251	.09583	1.0225	.16179	.06720
#1	91.914	.29569	.00566	1560.9	.21862
#2	92.022	.29609	.00558	1564.5	.21883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00517**	**19.361**	**.01106**	**.00674**	**11.857**
Stddev	.00085	.028	.00046	.00531	.038
%RSD	16.379	.14505	4.1178	78.717	.31896
#1	.00457	19.381	.01074	.00299	11.830
#2	.00577	19.341	.01139	.01049	11.883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01985**	**.98407**	**.08599**	**-.00165**	**.07457**
Stddev	.00057	.00207	.00033	.00139	.00093
%RSD	2.8858	.21018	.37871	84.524	1.2492
#1	.02026	.98261	.08576	-.00066	.07523
#2	.01945	.98553	.08622	-.00263	.07391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-2-a Acquired: 7/26/2017 22:38:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.06387
Stddev	.00085
%RSD	1.3353
#1	.06448
#2	.06327
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2637.0	2079.7	14483.	3036.7
Stddev	2.5	1.3	29.	6.0
%RSD	.09386	.06145	.19785	.19819
#1	2638.7	2080.6	14503.	3032.4
#2	2635.2	2078.8	14463.	3041.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.720%	86.289%	84.054%	95.345%
Range				

Sample Name: 480-121613-d-3-a Acquired: 7/26/2017 22:42:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**1.2778**	**.39221**	**10.029**	**2.3392**
Stddev	.00052	.0006	.00061	.002	.0128
%RSD	47.741	.05099	.15546	.02221	.54887
#1	-.00147	1.2773	.39178	10.030	2.3301
#2	-.00073	1.2782	.39265	10.027	2.3483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**302.76**	**-.00028**	**.0201**	**.03107**
Stddev	.00004	1.65	.00009	.0088	.00004
%RSD	8.1014	.54419	33.227	43.91	.13524
#1	.00057	303.93	-.00035	.0264	.03104
#2	.00051	301.60	-.00022	.0139	.03110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25981**	**.01862**	**103.27**	**470.72**	**.04731**
Stddev	.00069	.00017	.28	1.26	.00030
%RSD	.26552	.89653	.27573	.26815	.62477
#1	.25932	.01850	103.07	469.83	.04710
#2	.26030	.01874	103.47	471.62	.04752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a Acquired: 7/26/2017 22:42:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**102.33**	**1.1108**	**.00616**	**1309.6**	**.19560**
Stddev	.02	.0006	.00025	2.8	.00054
%RSD	.02175	.05760	4.0344	.21113	.27456
#1	102.31	1.1112	.00633	1307.7	.19522
#2	102.34	1.1103	.00598	1311.6	.19598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02685**	**25.805**	**.01139**	**.00564**	**15.157**
Stddev	.00088	.051	.00032	.00055	.056
%RSD	3.2875	.19690	2.7775	9.8160	.36721
#1	.02623	25.841	.01116	.00604	15.118
#2	.02747	25.769	.01161	.00525	15.197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09684**	**2.4498**	**.59894**	**-.00247**	**.23336**
Stddev	.00074	.0055	.00302	.00277	.00094
%RSD	.76700	.22578	.50350	111.90	.40147
#1	.09736	2.4459	.60107	-.00052	.23270
#2	.09631	2.4537	.59681	-.00443	.23402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a Acquired: 7/26/2017 22:42:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.14826**
Stddev	.00141
%RSD	.94782
#1	.14727
#2	.14926
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2618.8**	**2102.1**	**14781.**	**3067.7**
Stddev	4.9	3.4	18.	10.4
%RSD	.18747	.15971	.12415	.33884
#1	2622.3	2104.5	14794.	3060.4
#2	2615.4	2099.7	14768.	3075.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.233%	87.220%	85.785%	96.320%
Range				

Sample Name: 480-121613-d-3-a@5 Acquired: 7/26/2017 22:46:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.26754**	**.07460**	**2.0319**	**.45772**
Stddev	.00104	.00160	.00375	.0019	.00042
%RSD	141.19	.59807	5.0253	.09399	.09232
#1	-.00147	.26641	.07725	2.0305	.45742
#2	-.00000	.26867	.07195	2.0332	.45802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**60.243**	**-.00011**	**-.0145**	**.00576**
Stddev	.00007	.344	.00003	.0310	.00011
%RSD	102.84	.57051	26.697	214.0	1.9937
#1	.00013	60.000	-.00013	-.0364	.00568
#2	.00002	60.486	-.00009	.0074	.00585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05250**	**.00271**	**20.614**	**90.586**	**.01084**
Stddev	.00024	.00053	.141	.274	.00101
%RSD	.46180	19.444	.68537	.30277	9.2942
#1	.05267	.00309	20.514	90.392	.01012
#2	.05233	.00234	20.714	90.780	.01155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a@5 Acquired: 7/26/2017 22:46:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.246**	**.22266**	**.00080**	**250.06**	**.03678**
Stddev	.002	.00018	.00003	1.08	.00014
%RSD	.00911	.08147	3.3379	.43183	.38057
#1	20.247	.22253	.00078	249.30	.03688
#2	20.244	.22279	.00081	250.82	.03669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00517**	**4.7854**	**.00294**	**.00235**	**3.0004**
Stddev	.00057	.0130	.00081	.00029	.0172
%RSD	10.945	.27094	27.577	12.434	.57295
#1	.00477	4.7762	.00351	.00215	2.9883
#2	.00557	4.7946	.00236	.00256	3.0126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01793**	**.47752**	**.11783**	**.00128**	**.04611**
Stddev	.00097	.00035	.00030	.00147	.00039
%RSD	5.4193	.07369	.25477	114.63	.84322
#1	.01725	.47727	.11804	.00024	.04639
#2	.01862	.47777	.11762	.00232	.04584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a@5 Acquired: 7/26/2017 22:46:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03039
Stddev	.00066
%RSD	2.1745
#1	.03086
#2	.02992
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3094.5	2248.2	15817.	3094.3
Stddev	2.3	.7	35.	.9
%RSD	.07363	.03067	.22326	.02756
#1	3096.1	2248.6	15842.	3094.9
#2	3092.9	2247.7	15792.	3093.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.990%	93.280%	91.797%	97.155%
Range				

Sample Name: 480-121470-o-1-b Acquired: 7/26/2017 22:49:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00138**	**.13741**	**.06626**	**13.225**	**.57825**
Stddev	.00012	.00019	.00032	.028	.00103
%RSD	8.8604	.13867	.48990	.21145	.17879
#1	-.00130	.13728	.06649	13.205	.57898
#2	-.00147	.13755	.06603	13.245	.57752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**213.59**	**.00041**	**-.0083**	**.03992**
Stddev	.00002	.37	.00013	.0040	.00001
%RSD	34.924	.17472	31.544	48.79	.02453
#1	-.00005	213.33	.00032	-.0111	.03991
#2	-.00009	213.86	.00050	-.0054	.03992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10562**	**.03291**	**15.039**	**320.15**	**.05199**
Stddev	.00110	.00021	.044	.80	.00023
%RSD	1.0382	.65143	.28994	.24980	.44425
#1	.10639	.03276	15.009	319.59	.05215
#2	.10484	.03307	15.070	320.72	.05182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121470-o-1-b Acquired: 7/26/2017 22:49:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**102.94**	**2.7903**	**.00707**	**1270.7**	**.22684**
Stddev	.03	.0028	.00010	2.5	.00017
%RSD	.02643	.10092	1.3860	.19392	.07386
#1	102.92	2.7883	.00714	1269.0	.22696
#2	102.96	2.7923	.00700	1272.4	.22672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00820**	**51.928**	**.01178**	**.00409**	**25.091**
Stddev	.00160	.067	.00010	.00126	.062
%RSD	19.567	.12992	.81054	30.841	.24673
#1	.00707	51.880	.01185	.00498	25.047
#2	.00933	51.975	.01171	.00320	25.134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01230**	**1.5999**	**.22004**	**-.00217**	**.09470**
Stddev	.00099	.0041	.00010	.00177	.00038
%RSD	8.0711	.25808	.04334	81.249	.39989
#1	.01300	1.5970	.22010	-.00342	.09444
#2	.01160	1.6028	.21997	-.00092	.09497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121470-o-1-b Acquired: 7/26/2017 22:49:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.14184
Stddev	.00145
%RSD	1.0254
#1	.14287
#2	.14082
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2673.7	2086.9	14685.	3077.9
Stddev	5.5	3.0	15.	2.7
%RSD	.20669	.14604	.10479	.08907
#1	2677.6	2089.0	14696.	3079.8
#2	2669.8	2084.7	14674.	3075.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.706%	86.587%	85.224%	96.639%
Range				

Sample Name: BLANK Acquired: 7/26/2017 22:52:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.01647**	**.00108**	**.03009**	**.00005**
Stddev	.00006	.02124	.00335	.00208	.00002
%RSD	7.9463	128.95	311.61	6.9078	39.943
#1	-.00074	.03149	-.00130	.03156	.00006
#2	-.00066	.00145	.00345	.02862	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01470**	**-.00014**	**-.0272**	**-.00005**
Stddev	.00004	.00386	.00018	.0460	.00005
%RSD	57.598	26.228	128.06	168.9	107.09
#1	-.00004	.01197	-.00027	.0053	-.00001
#2	-.00010	.01742	-.00001	-.0598	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00058**	**.00143**	**.37502**	**-.00004**
Stddev	.00020	.00026	.00071	.02816	.00007
%RSD	131.35	44.710	49.601	7.5077	161.50
#1	-.00001	.00076	.00093	.39493	.00001
#2	-.00030	.00040	.00193	.35511	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 22:52:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00841**	**.00004**	**-.00002**	**.15066**	**.00007**
Stddev	.00250	.00003	.00003	.01766	.00010
%RSD	29.752	83.602	168.84	11.724	139.02
#1	.00664	.00006	.00000	.13817	.00000
#2	.01018	.00002	-.00004	.16315	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.01285**	**.00144**	**.00021**	**.09361**
Stddev	.00016	.00095	.00065	.00020	.01009
%RSD	102.48	7.3792	45.300	95.415	10.783
#1	-.00026	.01218	.00190	.00007	.08648
#2	-.00004	.01352	.00098	.00036	.10075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00002**	**-.00000**	**.00064**	**-.00022**
Stddev	.00033	.00005	.00037	.00134	.00023
%RSD	82.530	326.54	10807.	208.69	103.48
#1	-.00017	-.00002	.00026	.00159	-.00038
#2	-.00063	.00006	-.00026	-.00031	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 22:52:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00041
Stddev	.00028
%RSD	69.786
#1	.00021
#2	.00061
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3691.7	2373.7	16902.	3057.1
Stddev	3.2	.9	32.	.8
%RSD	.08646	.03986	.18892	.02697
#1	3689.4	2373.0	16925.	3056.5
#2	3693.9	2374.4	16880.	3057.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.005%	98.489%	98.094%	95.985%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:56:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49470**	**25.540**	**.49558**	**.54998**	**.53437**
Stddev	.00014	.075	.00245	.00146	.00086
%RSD	.02873	.29244	.49497	.26534	.16087
#1	.49480	25.488	.49385	.55101	.53498
#2	.49460	25.593	.49732	.54895	.53376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53086**	**25.395**	**.52583**	**-.0558**	**.51274**
Stddev	.00193	.111	.00044	.0119	.00006
%RSD	.36328	.43738	.08303	21.34	.01111
#1	.52949	25.316	.52614	-.0474	.51278
#2	.53222	25.473	.52552	-.0642	.51270
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50040**	F **.56210**	**24.732**	F **27.925**	**.54280**
Stddev	.00154	.00060	.102	.000	.00146
%RSD	.30772	.10647	.41383	.00061	.26975
#1	.49931	.56253	24.659	27.925	.54177
#2	.50149	.56168	24.804	27.925	.54384
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value		.50000		25.000	
Range		10.000%		10.000%	

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:56:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.206**	**.54580**	**.50888**	**26.813**	**.52292**
Stddev	.125	.00078	.00073	.117	.00072
%RSD	.47540	.14247	.14366	.43731	.13710
#1	26.294	.54635	.50940	26.730	.52342
#2	26.118	.54525	.50837	26.896	.52241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50918**	**25.932**	**.52314**	**.50673**	**24.801**
Stddev	.00139	.035	.00112	.00268	.094
%RSD	.27380	.13688	.21326	.52899	.37800
#1	.51017	25.957	.52393	.50862	24.735
#2	.50820	25.907	.52235	.50483	24.867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52341**	**.51047**	**.50564**	**.50333**	**.50747**
Stddev	.00037	.00231	.00031	.00086	.00137
%RSD	.06975	.45266	.06127	.17063	.26910
#1	.52315	.50883	.50542	.50273	.50651
#2	.52367	.51210	.50586	.50394	.50844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:56:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50619
Stddev	.00095
%RSD	.18713
#1	.50686
#2	.50552
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3346.6	2335.2	16531.	3063.9
Stddev	7.0	3.6	75.	4.2
%RSD	.20962	.15511	.45122	.13598
#1	3351.6	2337.8	16478.	3066.8
#2	3341.7	2332.6	16584.	3060.9

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:59:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.00653**	**.00101**	**.01775**	**.00005**
Stddev	.00022	.01473	.00010	.00072	.00001
%RSD	41.601	225.67	9.8539	4.0756	20.161
#1	-.00037	.01694	.00094	.01827	.00006
#2	-.00068	-.00389	.00108	.01724	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00071**	**.00005**	**-.0259**	**.00001**
Stddev	.00011	.00209	.00005	.0143	.00001
%RSD	272.01	294.02	89.459	55.36	55.423
#1	-.00012	-.00219	.00002	-.0360	.00001
#2	.00004	.00077	.00009	-.0158	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00017**	**.00084**	**.19879**	**.00103**
Stddev	.00038	.00097	.00158	.04412	.00027
%RSD	227.45	558.51	188.49	22.194	26.184
#1	-.00044	-.00086	-.00028	.22999	.00084
#2	.00010	.00051	.00196	.16759	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:59:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00613**	**-.00005**	**.00018**	**.06733**	**.00006**
Stddev	.00353	.00002	.00001	.00175	.00002
%RSD	57.561	32.431	5.7485	2.6053	30.623
#1	.00863	-.00004	.00019	.06857	.00007
#2	.00364	-.00006	.00017	.06608	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00914**	**.00068**	**.00067**	**.04186**
Stddev	.00024	.00159	.00130	.00040	.01589
%RSD	705.26	17.439	192.41	59.488	37.971
#1	.00014	.00801	.00159	.00096	.05309
#2	-.00020	.01027	-.00024	.00039	.03062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00001**	**-.00024**	**.00182**	**-.00012**
Stddev	.00026	.00010	.00054	.00135	.00005
%RSD	597.47	1466.0	225.95	74.350	41.032
#1	-.00014	-.00008	.00014	.00277	-.00008
#2	.00022	.00006	-.00062	.00086	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:59:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00057
Stddev	.00011
%RSD	18.441
#1	.00050
#2	.00065
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3684.7	2370.9	16927.	3073.0
Stddev	7.4	3.5	67.	4.9
%RSD	.20081	.14814	.39693	.15956
#1	3689.9	2373.3	16880.	3069.5
#2	3679.4	2368.4	16975.	3076.4

Sample Name: CCVL-4147888 Acquired: 7/26/2017 23:03:02 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00518**	**.19495**	**.01463**	F **.03407**	**.00220**
Stddev	.00044	.02160	.00127	.00006	.00003
%RSD	8.4009	11.078	8.6672	.19037	1.2658
#1	.00487	.21023	.01553	.03411	.00222
#2	.00549	.17968	.01373	.03402	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.50079**	**.00221**	**-.0396**	**.00387**
Stddev	.00008	.00250	.00023	.0016	.00001
%RSD	3.9925	.49860	10.575	3.953	.38538
#1	.00203	.49902	.00237	-.0407	.00388
#2	.00214	.50255	.00204	-.0385	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00385**	**.01124**	**.05009**	W **.72938**	**.03402**
Stddev	.00014	.00077	.00274	.01689	.00027
%RSD	3.7197	6.8909	5.4761	2.3161	.80080
#1	.00375	.01069	.04815	.74132	.03421
#2	.00395	.01179	.05203	.71743	.03383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.50000	
Range				30.000%	

Sample Name: CCVL-4147888 Acquired: 7/26/2017 23:03:02 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21147**	**.00315**	**.00986**	**1.1092**	**.01008**
Stddev	.00351	.00000	.00019	.0036	.00002
%RSD	1.6619	.00743	1.8822	.32310	.17809
#1	.20899	.00315	.00973	1.1117	.01006
#2	.21396	.00315	.00999	1.1066	.01009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01028**	**.20168**	**.02230**	**.02718**	**.48856**
Stddev	.00037	.00181	.00148	.00017	.00962
%RSD	3.6115	.89682	6.6251	.60850	1.9691
#1	.01054	.20296	.02125	.02730	.49536
#2	.01002	.20040	.02334	.02706	.48175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00937**	**.00508**	**.00508**	**.02102**	**.00511**
Stddev	.00018	.00014	.00003	.00033	.00030
%RSD	1.9117	2.8176	.67813	1.5487	5.7949
#1	.00950	.00498	.00506	.02125	.00490
#2	.00925	.00518	.00511	.02079	.00532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 23:03:02 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01064
Stddev	.00030
%RSD	2.8552
#1	.01043
#2	.01086
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3706.8	2391.8	17020.	3054.4
Stddev	.3	1.2	8.	19.2
%RSD	.00760	.04929	.04786	.62948
#1	3707.0	2391.0	17026.	3068.0
#2	3706.6	2392.7	17014.	3040.8

Sample Name: icsa-4090634 Acquired: 7/26/2017 23:06:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00159**	**498.76**	**.00363**	**.00918**	**.00098**
Stddev	.00121	2.01	.00080	.00058	.00004
%RSD	76.091	.40203	22.097	6.2715	4.1858
#1	-.00073	500.18	.00307	.00878	.00101
#2	-.00244	497.34	.00420	.00959	.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**463.33**	**-.00045**	**.0086**	**-.00088**
Stddev	.00001	6.18	.00004	.0262	.00023
%RSD	4.6109	1.3344	9.7324	305.6	26.156
#1	-.00022	467.70	-.00042	.0271	-.00104
#2	-.00020	458.96	-.00049	-.0099	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.00467**	**182.23**	**.18075**	**-.01728**
Stddev	.00040	.00098	1.05	.04485	.00203
%RSD	92.866	20.967	.57811	24.814	11.766
#1	-.00015	-.00536	182.97	.14903	-.01872
#2	-.00071	-.00398	181.48	.21246	-.01584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: icsa-4090634 Acquired: 7/26/2017 23:06:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**526.15**	**.00146**	**-.00135**	**.15195**	**-.00129**
Stddev	.10	.00003	.00002	.01173	.00051
%RSD	.01850	1.9694	1.1567	7.7197	39.095
#1	526.22	.00144	-.00134	.14365	-.00165
#2	526.08	.00148	-.00136	.16024	-.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**.06884**	**.00442**	**.00797**	**.03319**
Stddev	.00183	.00025	.00104	.00471	.00079
%RSD	172.16	.36766	23.538	59.046	2.3762
#1	.00023	.06866	.00369	.01130	.03264
#2	-.00236	.06902	.00516	.00464	.03375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00181**	**.03132**	**-.00036**	**-.00089**	**.00222**
Stddev	.00000	.00016	.00047	.00375	.00012
%RSD	.17034	.50978	130.82	422.50	5.1854
#1	.00181	.03143	-.00069	-.00354	.00214
#2	.00181	.03121	-.00003	.00176	.00230
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: icsa-4090634 Acquired: 7/26/2017 23:06:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	W .01127
Stddev	.00008
%RSD	.70908
#1	.01133
#2	.01121
Check ?	Chk Warn
High Limit	.01000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2703.2	2143.1	14789.	2981.9
Stddev	10.1	5.6	14.	17.8
%RSD	.37468	.25932	.09717	.59539
#1	2710.4	2147.1	14779.	2969.4
#2	2696.1	2139.2	14799.	2994.5

Sample Name: icsab-4093406 Acquired: 7/26/2017 23:10:01 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21401**	**520.63**	**.10433**	**.01124**	**.51370**
Stddev	.00046	1.84	.00138	.00072	.00162
%RSD	.21447	.35371	1.3248	6.3660	.31475
#1	.21368	519.33	.10530	.01175	.51255
#2	.21433	521.93	.10335	.01074	.51484
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51296**	**463.37**	**1.0177**	**-.0324**	**.49122**
Stddev	.00224	.25	.0009	.0257	.00066
%RSD	.43580	.05338	.08807	79.30	.13470
#1	.51138	463.19	1.0171	-.0142	.49075
#2	.51454	463.54	1.0183	-.0506	.49169
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46375**	**.56259**	**92.926**	**.17808**	**.52267**
Stddev	.00162	.00376	.054	.04683	.00409
%RSD	.34886	.66791	.05835	26.297	.78258
#1	.46261	.55994	92.888	.14497	.51978
#2	.46490	.56525	92.964	.21120	.52556
Check ? Value Range	Chk Pass	Chk Pass	Chk Pass	None	None

Sample Name: icsab-4093406 Acquired: 7/26/2017 23:10:01 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**546.40**	**.51357**	**-.00066**	**.24815**	**.97714**
Stddev	.91	.00081	.00011	.00018	.00179
%RSD	.16717	.15824	16.815	.07203	.18325
#1	545.75	.51299	-.00058	.24803	.97840
#2	547.04	.51414	-.00074	.24828	.97587
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04940**	**1.0534**	**.60482**	**.05504**	**.95500**
Stddev	.00215	.0040	.00027	.00519	.00514
%RSD	4.3542	.37882	.04514	9.4260	.53817
#1	.05092	1.0506	.60462	.05871	.95137
#2	.04788	1.0562	.60501	.05137	.95863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.48215**	**.00061**	**.09618**	**.49538**
Stddev	.00007	.00181	.00057	.00181	.00068
%RSD	3.5656	.37622	92.614	1.8801	.13640
#1	.00215	.48087	.00021	.09746	.49586
#2	.00205	.48343	.00102	.09490	.49490
Check ?	None	None	None	Chk Pass	Chk Pass
Value					
Range					

Sample Name: icsab-4093406 Acquired: 7/26/2017 23:10:01 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.91298
Stddev	.00234
%RSD	.25672
#1	.91463
#2	.91132
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2712.8	2149.4	14745.	3006.9
Stddev	9.6	5.9	39.	22.1
%RSD	.35449	.27248	.26290	.73362
#1	2719.6	2153.6	14772.	3022.5
#2	2706.0	2145.3	14717.	2991.3

Sample Name: CCV-4147885 Acquired: 7/26/2017 23:13:23 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50285**	**25.565**	**.49921**	**.53823**	**.53424**
Stddev	.00462	.027	.00196	.00005	.00062
%RSD	.91836	.10464	.39263	.00837	.11634
#1	.49958	25.546	.49782	.53826	.53380
#2	.50611	25.584	.50060	.53820	.53468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52751**	**25.225**	**.52635**	**-.0485**	**.51170**
Stddev	.00058	.011	.00074	.0316	.00048
%RSD	.11024	.04314	.13990	65.10	.09420
#1	.52710	25.233	.52687	-.0262	.51136
#2	.52792	25.217	.52583	-.0709	.51204
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51120**	F **.56034**	**24.498**	F **27.597**	**.54278**
Stddev	.00263	.00070	.005	.023	.00130
%RSD	.51530	.12408	.02096	.08498	.23894
#1	.50934	.56083	24.501	27.614	.54186
#2	.51306	.55985	24.494	27.581	.54370
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value		.50000		25.000	
Range		10.000%		10.000%	

Sample Name: CCV-4147885 Acquired: 7/26/2017 23:13:23 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.295**	**.54627**	**.51064**	**26.726**	**.52314**
Stddev	.088	.00132	.00048	.002	.00099
%RSD	.33355	.24183	.09354	.00740	.18872
#1	26.233	.54534	.51098	26.728	.52244
#2	26.357	.54720	.51030	26.725	.52384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51005**	**25.962**	**.52729**	**.50773**	**24.417**
Stddev	.00107	.033	.00082	.00600	.025
%RSD	.20892	.12691	.15561	1.1815	.10223
#1	.51081	25.985	.52787	.51197	24.399
#2	.50930	25.939	.52671	.50349	24.435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52190**	**.51091**	**.50976**	**.50596**	**.51336**
Stddev	.00086	.00032	.00174	.00105	.00316
%RSD	.16445	.06171	.34121	.20690	.61586
#1	.52129	.51113	.50853	.50670	.51113
#2	.52251	.51069	.51099	.50522	.51560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 23:13:23 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51028**
Stddev	.00531
%RSD	1.0412
#1	.50652
#2	.51403
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3352.9**	**2337.3**	**16422.**	**3087.7**
Stddev	.4	2.2	44.	16.9
%RSD	.01287	.09288	.26716	.54819
#1	3353.2	2335.7	16453.	3099.6
#2	3352.5	2338.8	16391.	3075.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 23:16:35 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.01776**	**.00097**	**.00809**	**.00005**
Stddev	.00035	.01074	.00073	.00051	.00003
%RSD	248.61	60.494	75.394	6.2580	56.033
#1	.00011	.02536	.00045	.00845	.00007
#2	-.00039	.01016	.00148	.00773	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00660**	**-.00001**	**-.0299**	**-.00004**
Stddev	.00002	.00046	.00002	.0031	.00002
%RSD	35.363	7.0028	241.84	10.39	50.279
#1	-.00008	.00627	.00001	-.0321	-.00002
#2	-.00005	.00692	-.00002	-.0277	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00063**	**.00182**	**.11264**	**.00027**
Stddev	.00033	.00046	.00037	.02463	.00067
%RSD	10413.	73.451	20.373	21.865	251.26
#1	.00024	.00096	.00156	.13006	.00074
#2	-.00023	.00030	.00208	.09523	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 23:16:35 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00802**	**-.00003**	**.00004**	**.03794**	**.00002**
Stddev	.00449	.00004	.00020	.00950	.00013
%RSD	56.063	146.62	534.91	25.042	566.99
#1	.00484	.00000	-.00010	.04466	.00012
#2	.01119	-.00006	.00018	.03123	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00135**	**.00480**	**.00032**	**.00185**	**.01146**
Stddev	.00064	.00060	.00017	.00013	.00239
%RSD	46.990	12.521	54.206	6.8280	20.897
#1	-.00180	.00522	.00020	.00194	.01315
#2	-.00090	.00437	.00044	.00176	.00977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00007**	**.00004**	**.00115**	**-.00002**
Stddev	.00016	.00002	.00030	.00166	.00016
%RSD	130.06	35.655	681.15	145.07	763.36
#1	-.00001	-.00005	-.00017	.00232	.00009
#2	-.00024	-.00008	.00026	-.00003	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 23:16:35 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00053
Stddev	.00032
%RSD	61.514
#1	.00076
#2	.00030
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3686.0	2367.9	16873.	3060.5
Stddev	9.1	5.4	30.	27.0
%RSD	.24694	.22872	.17600	.88091
#1	3679.6	2364.1	16852.	3079.6
#2	3692.5	2371.8	16894.	3041.4

Run File: i2072717a Instrument: ICAP2

Analyst: jrk JRK 7/28/17 Data Review: 7/28/17

Spikes Ids: 4027863(W1), 3903387(W2), 4076679(Sn), 4076667(Ag), 3900427(Si), 3885452(TCLP)

Pipette IDs: 06/16/17-(1-9, 11)
Internal Standard: 4147891

Seq#	Run File ID	Sample ID	Date / Time	Type
1	i2072717a	ICIS-4130963	07/27/17 07:46 AM	Standard
2	i2072717a	IC-4130962	07/27/17 07:49 AM	Standard
3	i2072717a	IC-4121446	07/27/17 07:53 AM	Standard
4	i2072717a	IC-4121445	07/27/17 07:56 AM	Standard
5	i2072717a	ICV-4147886	07/27/17 07:59 AM	QC
6	i2072717a	ICB-4130963	07/27/17 08:02 AM	QC
7	i2072717a	ICVL-4147888	07/27/17 08:06 AM	QC
8	i2072717a	ICSA-4090634	07/27/17 08:09 AM	QC
9	i2072717a	ICSAB-4093406	07/27/17 08:12 AM	QC
10	i2072717a	ICEX1	07/27/17 08:16 AM	Unknown
11	i2072717a	ICEX2	07/27/17 08:19 AM	Unknown
12	i2072717a	ICEX3	07/27/17 08:22 AM	Unknown
13	i2072717a	ICEX4	07/27/17 08:28 AM	Unknown
14	i2072717a	ICEX5	07/27/17 08:32 AM	Unknown
15	i2072717a	CCV-4147885	07/27/17 08:35 AM	QC
16	i2072717a	CCB-4130963	07/27/17 08:38 AM	QC
17	i2072717a	CCVL-4147888	07/27/17 08:42 AM	QC
18	i2072717a	CCVL-4147888	07/27/17 08:57 AM	QC
19	i2072717a	mb 480-368365/1-b	07/27/17 09:00 AM	Unknown
20	i2072717a	lcs 480-368365/2-b	07/27/17 09:04 AM	Unknown
21	i2072717a	lcsd 480-368365/3-b	07/27/17 09:07 AM	Unknown
22	i2072717a	480-120452-m-1-b	07/27/17 09:10 AM	Unknown
23	i2072717a	480-120452-m-1-bSD@5	07/27/17 09:13 AM	Unknown
24	i2072717a	480-120452-m-1-b PDS	07/27/17 09:17 AM	Unknown
25	i2072717a	480-120452-m-2-b	07/27/17 09:20 AM	Unknown
26	i2072717a	480-120452-m-3-b	07/27/17 09:23 AM	Unknown
27	i2072717a	480-120452-m-4-b	07/27/17 09:27 AM	Unknown
28	i2072717a	CCV-4147885	07/27/17 09:30 AM	QC
29	i2072717a	CCB-4130963	07/27/17 09:33 AM	QC
30	i2072717a	CCVL-4147888	07/27/17 09:37 AM	QC
31	i2072717a	480-120452-m-5-b	07/27/17 09:40 AM	Unknown
32	i2072717a	480-120452-m-7-b	07/27/17 09:43 AM	Unknown
33	i2072717a	480-120452-m-10-b	07/27/17 09:47 AM	Unknown
34	i2072717a	480-120452-m-11-b	07/27/17 09:50 AM	Unknown
35	i2072717a	480-120452-m-12-b	07/27/17 09:53 AM	Unknown
36	i2072717a	mb 480-368836/1-a	07/27/17 09:57 AM	Unknown
37	i2072717a	lcs 480-368836/2-a	07/27/17 10:00 AM	Unknown
38	i2072717a	lcsd 480-368836/3-a	07/27/17 10:03 AM	Unknown
39	i2072717a	480-121597-a-1-a	07/27/17 10:07 AM	Unknown
40	i2072717a	CCV-4147885	07/27/17 10:10 AM	QC
41	i2072717a	CCB-4130963	07/27/17 10:13 AM	QC
42	i2072717a	CCVL-4147888	07/27/17 10:16 AM	QC

43	i2072717a	480-121597-a-1-aSD@5	07/27/17 10:20 AM Unknown
44	i2072717a	480-121597-a-1-a PDS	07/27/17 10:23 AM Unknown
45	i2072717a	480-121597-a-1-b ms	07/27/17 10:26 AM Unknown
46	i2072717a	480-121597-a-1-c msd	07/27/17 10:30 AM Unknown
47	i2072717a	BLANK	07/27/17 10:33 AM Unknown
48	i2072717a	mb 480-368425/1-a	07/27/17 10:36 AM Unknown
49	i2072717a	mb 480-368588/1-a	07/27/17 10:40 AM Unknown
50	i2072717a	480-121501-c-6-a	07/27/17 10:43 AM Unknown
51	i2072717a	BLANK	07/27/17 10:46 AM Unknown
52	i2072717a	CCV-4147885	07/27/17 10:50 AM QC
53	i2072717a	CCB-4130963	07/27/17 10:53 AM QC
54	i2072717a	CCVL-4147888	07/27/17 10:56 AM QC
55	i2072717a	480-121506-c-16-b@5	07/27/17 11:00 AM Unknown
56	i2072717a	480-121506-c-20-b@5	07/27/17 11:03 AM Unknown
57	i2072717a	mb 480-368710/1-a	07/27/17 11:07 AM Unknown
58	i2072717a	lcs 480-368710/2-a	07/27/17 11:10 AM Unknown
59	i2072717a	480-121588-e-1-b	07/27/17 11:13 AM Unknown
60	i2072717a	480-121588-e-2-b	07/27/17 11:17 AM Unknown
61	i2072717a	480-121588-e-3-b	07/27/17 11:20 AM Unknown
62	i2072717a	480-121588-e-4-b	07/27/17 11:23 AM Unknown
63	i2072717a	480-121588-e-5-d	07/27/17 11:27 AM Unknown
64	i2072717a	CCV-4147885	07/27/17 11:30 AM QC
65	i2072717a	CCB-4130963	07/27/17 11:33 AM QC
66	i2072717a	CCVL-4147888	07/27/17 11:37 AM QC
67	i2072717a	480-121588-e-5-dpds	07/27/17 11:40 AM Unknown
68	i2072717a	480-121588-e-5-dpds	07/27/17 11:40 AM Unknown
69	i2072717a	480-121588-e-5-dsd@5	07/27/17 11:43 AM Unknown
70	i2072717a	480-121588-e-5-dsd@5	07/27/17 11:43 AM Unknown
71	i2072717a	480-121588-e-5-e ms	07/27/17 11:47 AM Unknown
72	i2072717a	480-121588-e-5-f msd	07/27/17 11:50 AM Unknown
73	i2072717a	480-121588-e-6-b	07/27/17 11:53 AM Unknown
74	i2072717a	480-121588-e-7-b	07/27/17 11:56 AM Unknown
75	i2072717a	480-121588-e-8-b	07/27/17 12:00 PM Unknown
76	i2072717a	480-121599-c-3-b	07/27/17 12:03 PM Unknown
77	i2072717a	480-121622-b-1-a	07/27/17 12:07 PM Unknown
78	i2072717a	CCV-4147885	07/27/17 12:10 PM QC
79	i2072717a	CCB-4130963	07/27/17 12:13 PM QC
80	i2072717a	CCVL-4147888	07/27/17 12:16 PM QC
81	i2072717a	480-121622-b-2-a	07/27/17 12:20 PM Unknown
82	i2072717a	480-121622-b-3-a	07/27/17 12:23 PM Unknown
83	i2072717a	480-121622-b-4-a	07/27/17 12:27 PM Unknown
84	i2072717a	480-121624-a-1-a	07/27/17 12:30 PM Unknown
85	i2072717a	480-121634-d-1-a	07/27/17 12:33 PM Unknown
86	i2072717a	480-121613-d-1-a	07/27/17 12:37 PM Unknown
87	i2072717a	480-121613-d-2-a	07/27/17 12:40 PM Unknown
88	i2072717a	480-121613-d-3-a	07/27/17 12:44 PM Unknown
89	i2072717a	480-121470-o-1-b	07/27/17 12:47 PM Unknown
90	i2072717a	CCV-4147885	07/27/17 12:50 PM QC
91	i2072717a	CCB-4130963	07/27/17 12:54 PM QC
92	i2072717a	CCVL-4147888	07/27/17 12:57 PM QC
93	i2072717a	mb 480-368647/1-a	07/27/17 01:00 PM Unknown
94	i2072717a	lcs 480-368647/2-a	07/27/17 01:04 PM Unknown

95	i2072717a	480-121312-a-4-b	07/27/17 01:07 PM Unknown
96	i2072717a	480-121312-a-5-b	07/27/17 01:10 PM Unknown
97	i2072717a	480-121312-a-6-b	07/27/17 01:14 PM Unknown
98	i2072717a	480-121312-a-7-b	07/27/17 01:17 PM Unknown
99	i2072717a	480-121241-d-1-c	07/27/17 01:21 PM Unknown
100	i2072717a	480-121241-d-2-c	07/27/17 01:24 PM Unknown
101	i2072717a	480-121241-d-3-c	07/27/17 01:28 PM Unknown
102	i2072717a	CCV-4147885	07/27/17 01:31 PM QC
103	i2072717a	CCB-4130963	07/27/17 01:34 PM QC
104	i2072717a	CCVL-4147888	07/27/17 01:38 PM QC
105	i2072717a	480-121241-d-4-g	07/27/17 01:41 PM Unknown
106	i2072717a	480-121241-d-4-gSD@5	07/27/17 01:45 PM Unknown
107	i2072717a	480-121241-d-4-g PDS	07/27/17 01:48 PM Unknown
108	i2072717a	480-121241-d-4-h ms	07/27/17 01:51 PM Unknown
109	i2072717a	480-121241-d-4-i msd	07/27/17 01:55 PM Unknown
110	i2072717a	480-121241-d-5-c	07/27/17 01:58 PM Unknown
111	i2072717a	480-121241-d-6-c	07/27/17 02:02 PM Unknown
112	i2072717a	480-121241-d-7-c	07/27/17 02:05 PM Unknown
113	i2072717a	480-121297-b-1-c	07/27/17 02:09 PM Unknown
114	i2072717a	CCV-4147885	07/27/17 02:12 PM QC
115	i2072717a	CCB-4130963	07/27/17 02:15 PM QC
116	i2072717a	CCVL-4147888	07/27/17 02:19 PM QC
117	i2072717a	480-121297-o-7-c	07/27/17 02:22 PM Unknown
118	i2072717a	480-121277-d-1-c	07/27/17 02:26 PM Unknown
119	i2072717a	480-121277-d-2-c	07/27/17 02:29 PM Unknown
120	i2072717a	480-121277-d-3-e	07/27/17 02:32 PM Unknown
121	i2072717a	480-121289-c-11-d	07/27/17 02:36 PM Unknown
122	i2072717a	480-121309-c-1-c	07/27/17 02:39 PM Unknown
123	i2072717a	480-121298-c-2-c	07/27/17 02:42 PM Unknown
124	i2072717a	480-121298-c-1-c	07/27/17 02:46 PM Unknown
125	i2072717a	480-121298-c-1-c@5	07/27/17 02:49 PM Unknown
126	i2072717a	CCV-4147885	07/27/17 02:53 PM QC
127	i2072717a	CCB-4130963	07/27/17 02:56 PM QC
128	i2072717a	CCVL-4147888	07/27/17 02:59 PM QC
129	i2072717a	lb2 480-368394/1-b	07/27/17 03:03 PM Unknown
130	i2072717a	mb 480-368571/2-a	07/27/17 03:06 PM Unknown
131	i2072717a	lcs 480-368571/3-a	07/27/17 03:10 PM Unknown
132	i2072717a	480-121504-b-1-d	07/27/17 03:13 PM Unknown
133	i2072717a	480-121504-b-1-dSD@5	07/27/17 03:17 PM Unknown
134	i2072717a	480-121504-b-1-d PDS	07/27/17 03:20 PM Unknown
135	i2072717a	480-121504-b-1-e ms	07/27/17 03:26 PM Unknown
136	i2072717a	480-121504-b-1-f msd	07/27/17 04:08 PM Unknown
137	i2072717a	lcsd 480-368571/7-a	07/27/17 04:19 PM Unknown
138	i2072717a	CCV-4147885	07/27/17 04:22 PM QC
139	i2072717a	CCB-4130963	07/27/17 04:25 PM QC
140	i2072717a	CCVL-4147888	07/27/17 04:29 PM QC
141	i2072717a	mb 480-368849/1-a	07/27/17 04:32 PM Unknown
142	i2072717a	lcssrm 480-368849/2-	07/27/17 04:36 PM Unknown
143	i2072717a	480-121538-a-1-b	07/27/17 04:39 PM Unknown
144	i2072717a	480-121538-a-2-b	07/27/17 04:42 PM Unknown
145	i2072717a	480-121538-a-3-b	07/27/17 04:46 PM Unknown
146	i2072717a	480-121538-a-4-b	07/27/17 04:49 PM Unknown

147	i2072717a	480-121538-a-5-b	07/27/17 04:53 PM Unknown
148	i2072717a	480-121538-a-6-b	07/27/17 04:56 PM Unknown
149	i2072717a	480-121538-a-7-b	07/27/17 04:59 PM Unknown
150	i2072717a	CCV-4147885	07/27/17 05:03 PM QC
151	i2072717a	CCB-4130963	07/27/17 05:06 PM QC
152	i2072717a	CCVL-4147888	07/27/17 05:09 PM QC
153	i2072717a	480-121538-a-8-b	07/27/17 05:13 PM Unknown
154	i2072717a	480-121538-a-9-b	07/27/17 05:16 PM Unknown
155	i2072717a	480-121538-a-10-b	07/27/17 05:19 PM Unknown
156	i2072717a	480-121538-a-11-b	07/27/17 05:22 PM Unknown
157	i2072717a	480-121538-a-13-b	07/27/17 05:26 PM Unknown
158	i2072717a	480-121538-a-14-b	07/27/17 05:29 PM Unknown
159	i2072717a	480-121538-a-15-b	07/27/17 05:33 PM Unknown
160	i2072717a	480-121538-a-16-d	07/27/17 05:36 PM Unknown
161	i2072717a	121538-a-16-dSD@5	07/27/17 05:39 PM Unknown
162	i2072717a	CCV-4147885	07/27/17 05:43 PM QC
163	i2072717a	CCB-4130963	07/27/17 05:46 PM QC
164	i2072717a	CCVL-4147888	07/27/17 05:49 PM QC
165	i2072717a	480-121538-a-16-dPDS	07/27/17 05:53 PM Unknown
166	i2072717a	480-121538-a-16-e ms	07/27/17 05:56 PM Unknown
167	i2072717a	121538-a-16-f msd	07/27/17 05:59 PM Unknown
168	i2072717a	BLANK	07/27/17 06:02 PM Unknown
169	i2072717a	MB 480-368850/1-A	07/27/17 06:06 PM Unknown
170	i2072717a	LCSSRM 480-368850/2-	07/27/17 06:09 PM Unknown
171	i2072717a	480-121619-A-1-A	07/27/17 06:12 PM Unknown
172	i2072717a	480-121619-A-8-A	07/27/17 06:16 PM Unknown
173	i2072717a	480-121619-A-11-A	07/27/17 06:19 PM Unknown
174	i2072717a	CCV-4147885	07/27/17 06:23 PM QC
175	i2072717a	CCB-4130963	07/27/17 06:26 PM QC
176	i2072717a	CCVL-4147888	07/27/17 06:29 PM QC
177	i2072717a	480-121651-A-1-A	07/27/17 06:33 PM Unknown
178	i2072717a	480-121651-A-2-A	07/27/17 06:36 PM Unknown
179	i2072717a	480-121651-A-3-A	07/27/17 06:39 PM Unknown
180	i2072717a	480-121651-A-3-Asd@5	07/27/17 06:42 PM Unknown
181	i2072717a	480-121651-A-3-A pds	07/27/17 06:46 PM Unknown
182	i2072717a	480-121651-A-3-B MS	07/27/17 06:49 PM Unknown
183	i2072717a	480-121651-A-3-C MSD	07/27/17 06:52 PM Unknown
184	i2072717a	480-121651-A-4-A	07/27/17 06:56 PM Unknown
185	i2072717a	480-121651-A-5-A	07/27/17 06:59 PM Unknown
186	i2072717a	CCV-4147885	07/27/17 07:02 PM QC
187	i2072717a	CCB-4130963	07/27/17 07:05 PM QC
188	i2072717a	CCVL-4147888	07/27/17 07:09 PM QC
189	i2072717a	480-121667-A-1-B	07/27/17 07:12 PM Unknown

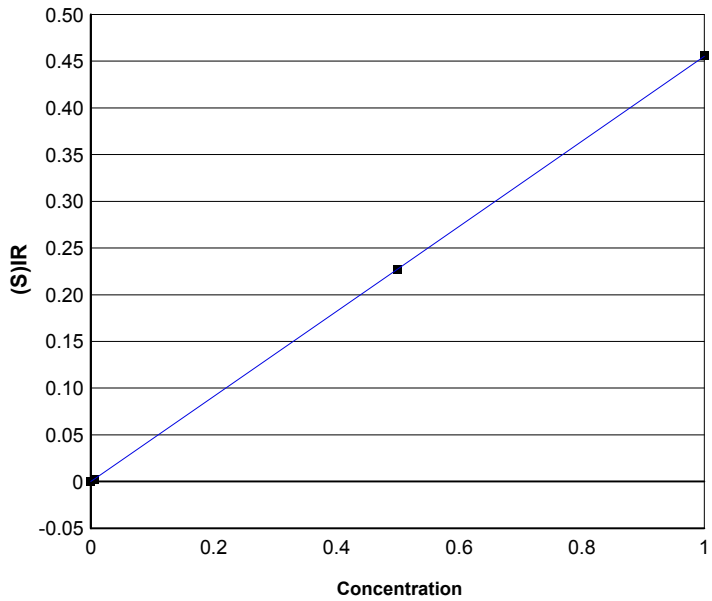
i2072717a

Author: jrk

Published: 7/28/2017 7:09:47AM

Instrument Name: iCAP2 Serial Number: 20094602

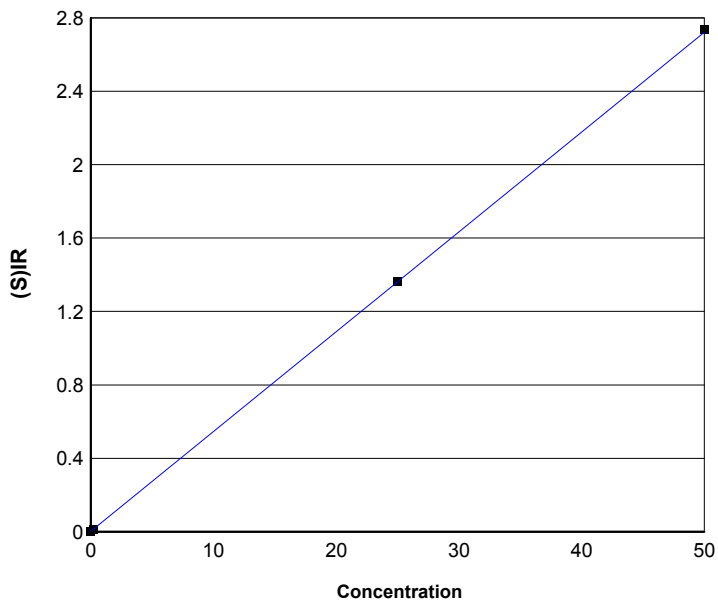
Method Name: ICAP2 June 2017 (62)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.000027998
A1 (Gain):	0.45525
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

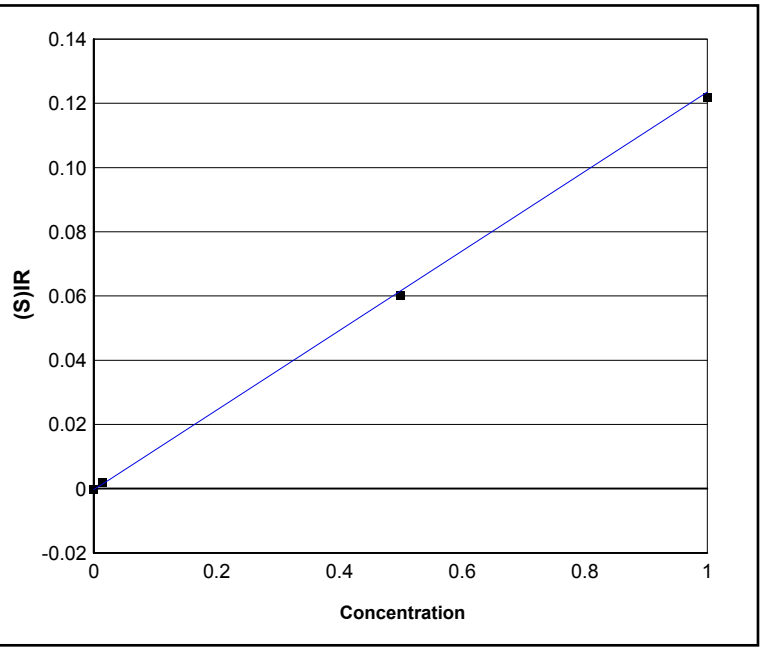
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000008117	0.0000008117	0.00000	-0.000027628	0.000022610	1
IC-4130962	0.0060000	0.0051875	-0.00081254	-13.542	0.0023337	0.00075376	1
IC-4121446	0.50000	0.49933	-0.00067442	-0.13488	0.22731	0.00016951	1
IC-4121445	1.0000	1.0015	0.0014869	0.14869	0.45593	0.0012851	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0023234
A1 (Gain):	0.054392
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

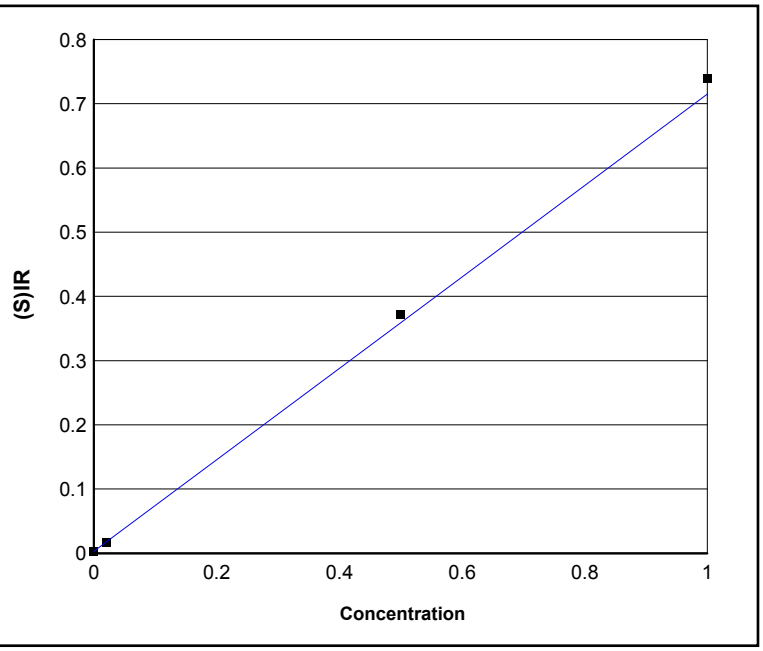
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000015119	-0.000015119	0.00000	0.0023226	0.00013587	1
IC-4130962	0.20000	0.21538	0.015384	7.6922	0.014098	0.00067184	1
IC-4121446	25.000	24.949	-0.051059	-0.20424	1.3653	0.0035509	1
IC-4121445	50.000	50.036	0.035658	0.071316	2.7358	0.0049837	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00027860
A1 (Gain):	0.12374
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

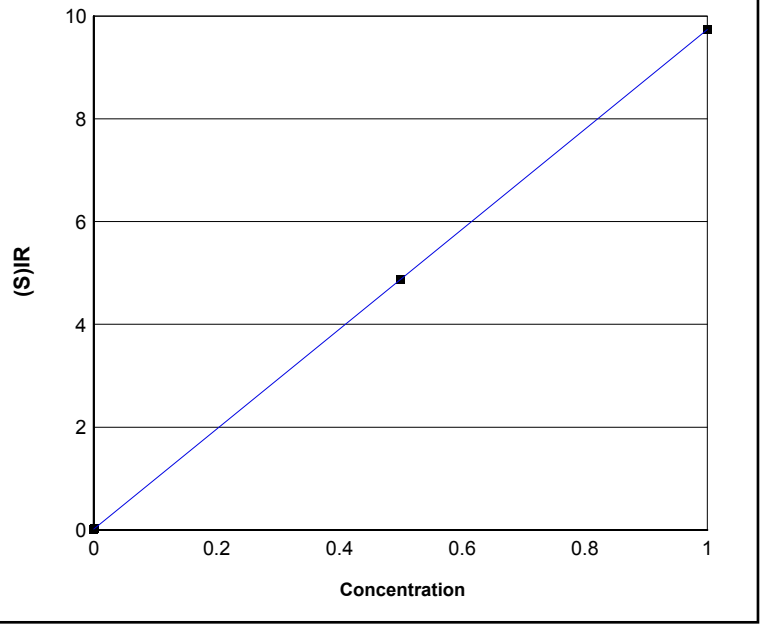
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000017931	-0.0000017931	0.00000	-0.00027882	0.0000050185	1
IC-4130962	0.015000	0.016872	0.0018715	12.477	0.0018017	0.00021136	1
IC-4121446	0.50000	0.49666	-0.0033383	-0.66767	0.060252	0.00011522	1
IC-4121445	1.0000	1.0014	0.0014459	0.14459	0.12179	0.00010746	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0028530
A1 (Gain):	0.71195
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

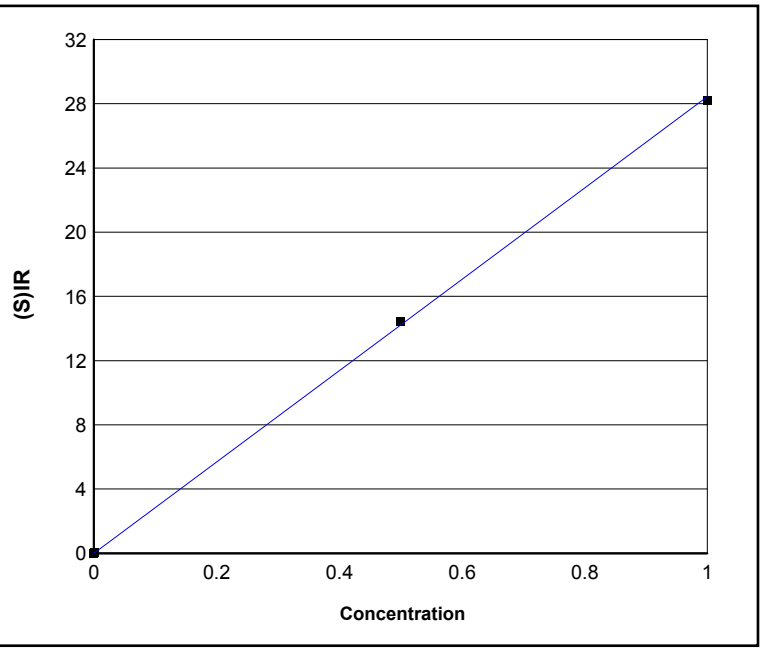
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001383	-0.0000001383	0.00000	0.0028529	0.000085545	1
IC-4130962	0.020000	0.020121	0.00012147	0.60733	0.017425	0.00032785	1
IC-4121446	0.50000	0.50096	0.00095900	0.19180	0.37182	0.000052860	1
IC-4121445	1.0000	0.99892	-0.0010784	-0.10784	0.73865	0.00011591	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.015771
A1 (Gain):	9.7205
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

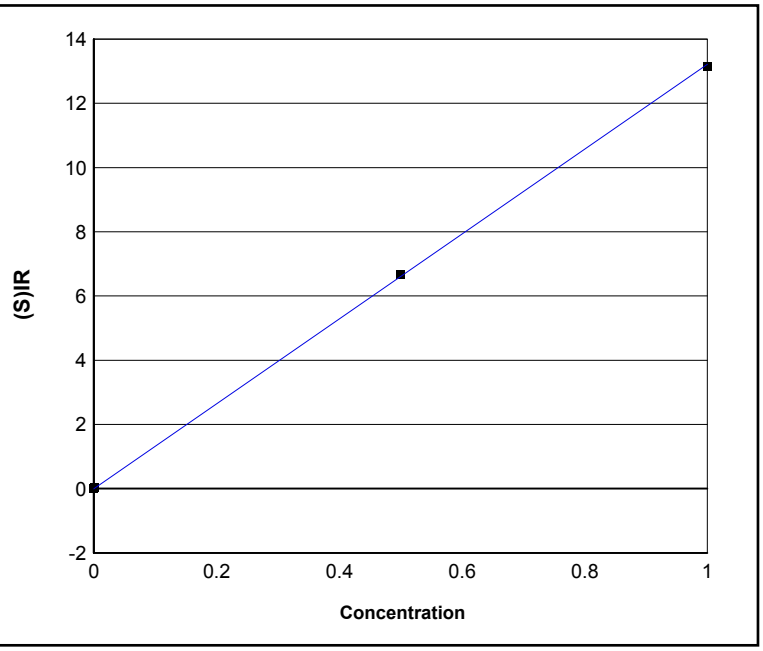
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002125	0.0000002125	0.00000	0.015774	0.0010804	1
IC-4130962	0.0020000	0.0017863	-0.00021366	-10.683	0.033136	0.0019783	1
IC-4121446	0.50000	0.50036	0.00035635	0.071270	4.8795	0.00093085	1
IC-4121445	1.0000	0.99986	-0.00014269	-0.014269	9.7349	0.014445	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.0076324
A1 (Gain):	28.435
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

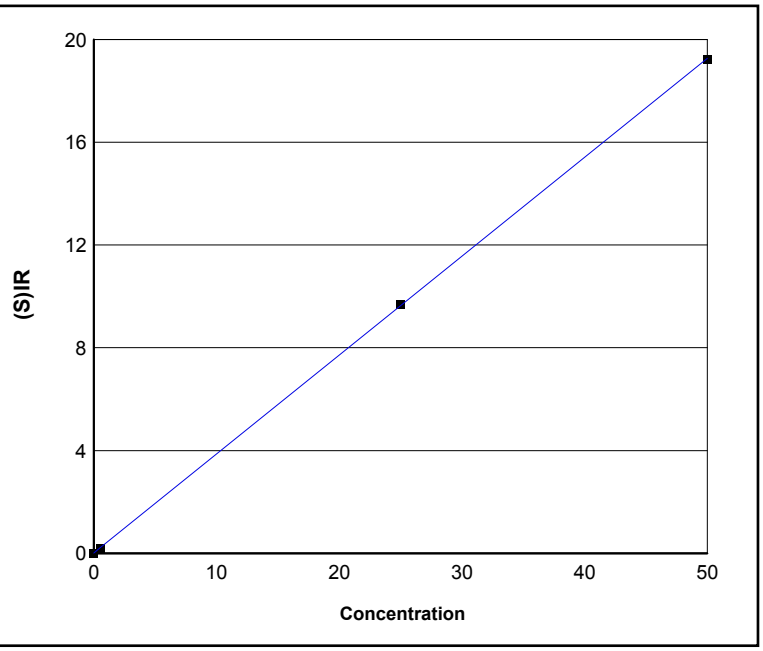
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001191	-0.0000001191	0.00000	0.0076290	0.00022012	1
IC-4130962	0.0020000	0.0021018	0.00010183	5.0915	0.067397	0.00041412	1
IC-4121446	0.50000	0.50873	0.0087342	1.7468	14.473	0.030891	1
IC-4121445	1.0000	0.99116	-0.0088360	-0.88360	28.191	0.32118	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00062169
A1 (Gain):	13.214
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

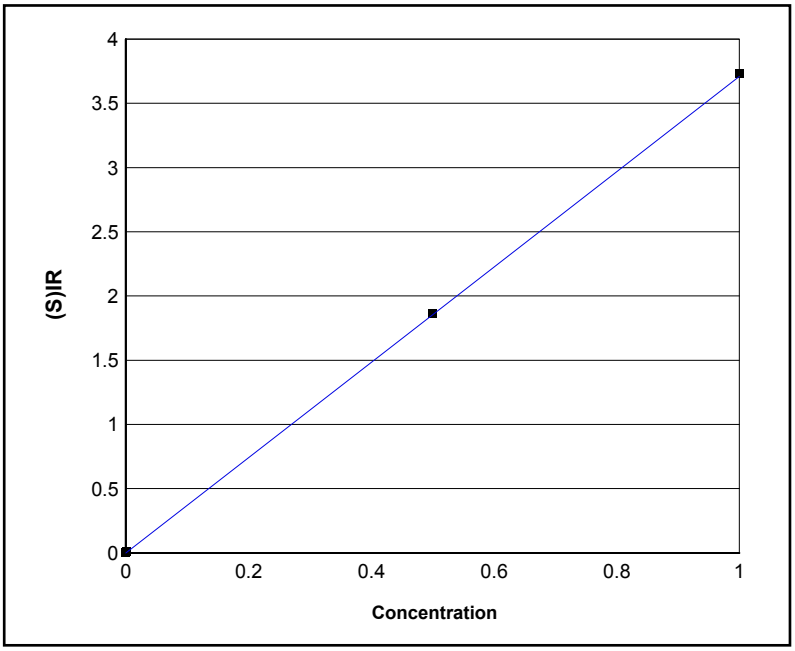
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001264	-0.0000001264	0.00000	-0.00062336	0.0012685	1
IC-4130962	0.0020000	0.0021170	0.00011703	5.8513	0.027311	0.00012327	1
IC-4121446	0.50000	0.50483	0.0048272	0.96545	6.6662	0.015321	1
IC-4121445	1.0000	0.99506	-0.0049441	-0.49441	13.140	0.050275	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.010150
A1 (Gain):	0.38518
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

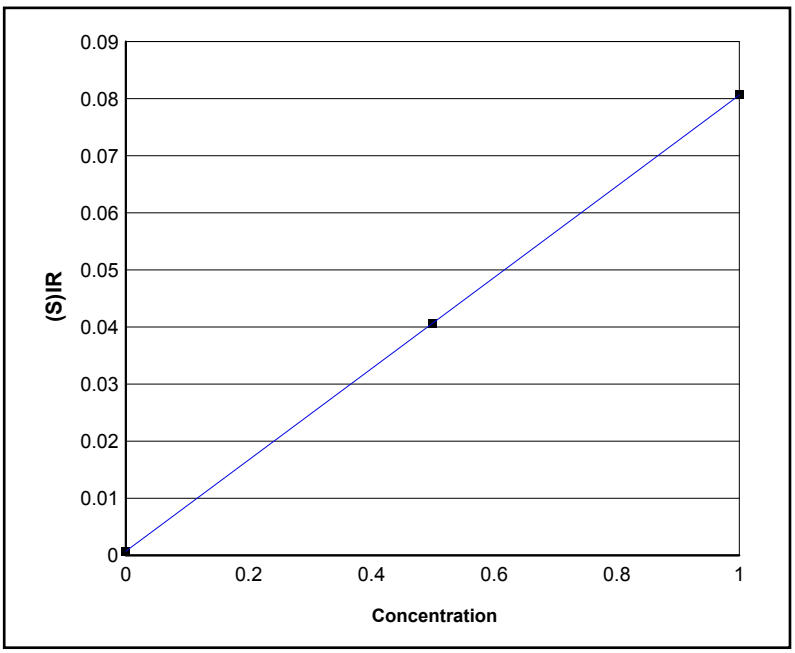
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000096350	-0.0000096350	0.00000	0.010146	0.00028327	1
IC-4130962	0.50000	0.50866	0.0086560	1.7312	0.20607	0.0024478	1
IC-4121446	25.000	25.107	0.10655	0.42621	9.6806	0.0046921	1
IC-4121445	50.000	49.885	-0.11521	-0.23042	19.225	0.048168	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0000035730
A1 (Gain):	3.7096
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

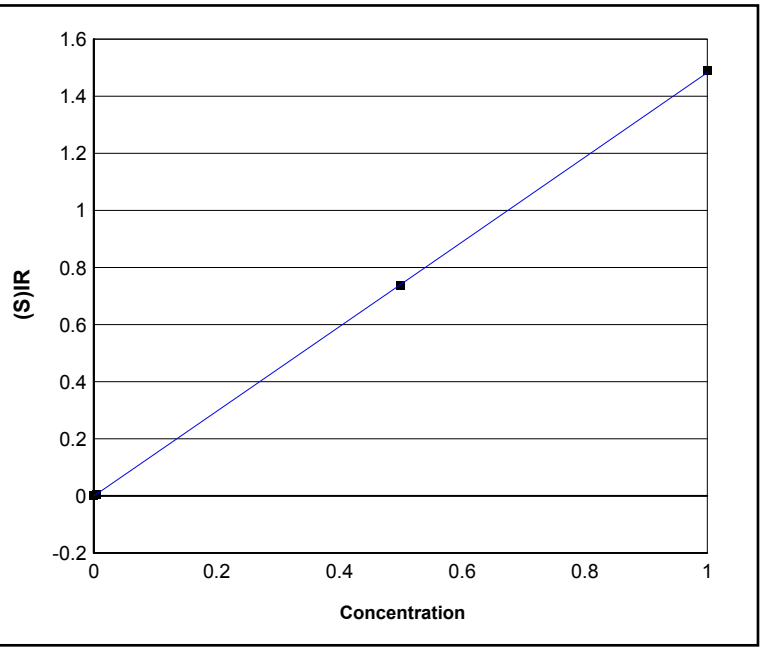
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001998	-0.0000001998	0.00000	0.0000028318	0.00040099	1
IC-4130962	0.0020000	0.0022010	0.00020097	10.048	0.0085576	0.00010949	1
IC-4121446	0.50000	0.49963	-0.00036736	-0.073472	1.8663	0.0044907	1
IC-4121445	1.0000	1.0002	0.00015731	0.015731	3.7359	0.0024593	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.0007218
A1 (Gain):	0.07986
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

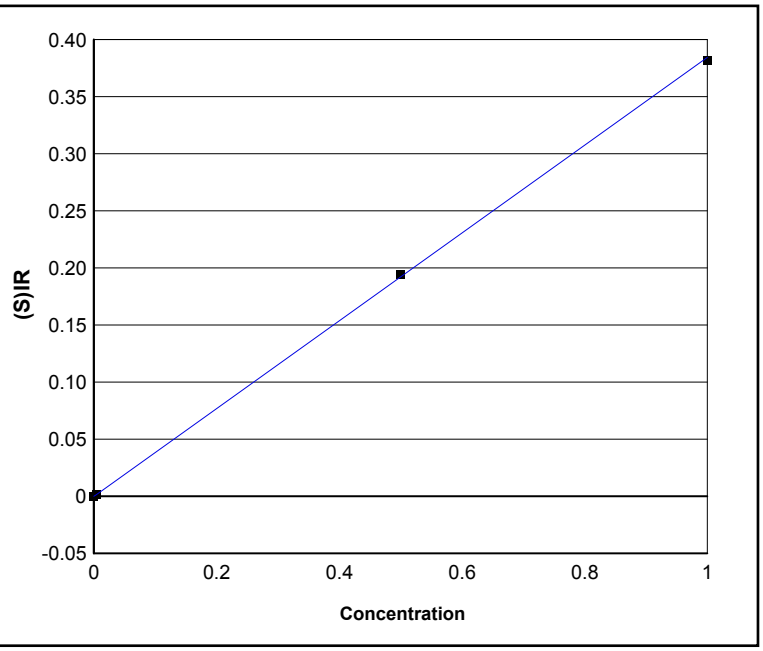
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000	0.0000002607	0.0000002607	0.0000	0.0007219	0.001295	1
IC-4121446	0.5000	0.4995	-0.0005214	-0.1043	0.04061	0.001020	1
IC-4121445	1.000	1.001	0.0005214	0.05214	0.08063	0.0004280	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00020680
A1 (Gain):	1.4825
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

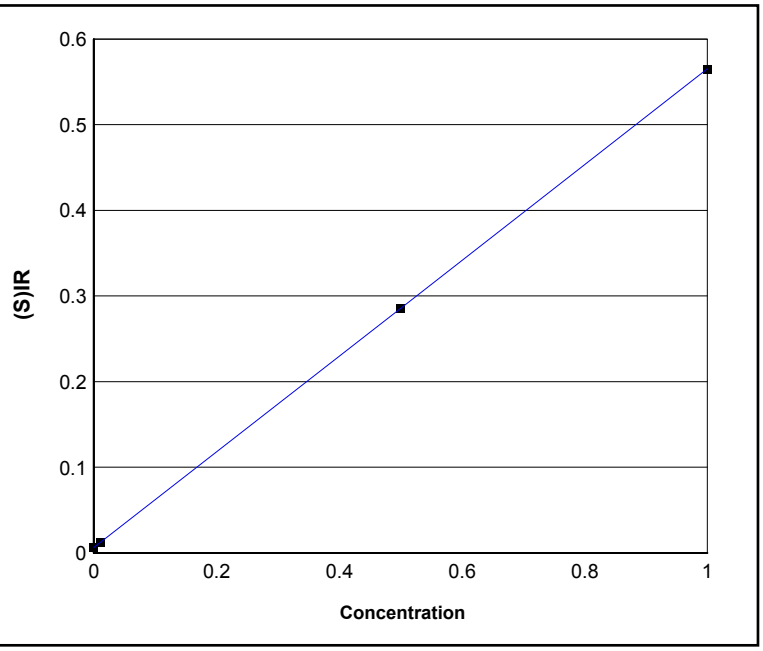
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000315	0.0000000315	0.00000	-0.00020675	0.00013045	1
IC-4130962	0.0040000	0.0039853	-0.000014687	-0.36718	0.0056990	0.000096560	1
IC-4121446	0.50000	0.49578	-0.0042204	-0.84407	0.73541	0.0016282	1
IC-4121445	1.0000	1.0042	0.0042350	0.42350	1.4898	0.0017225	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.000099400
A1 (Gain):	0.38438
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

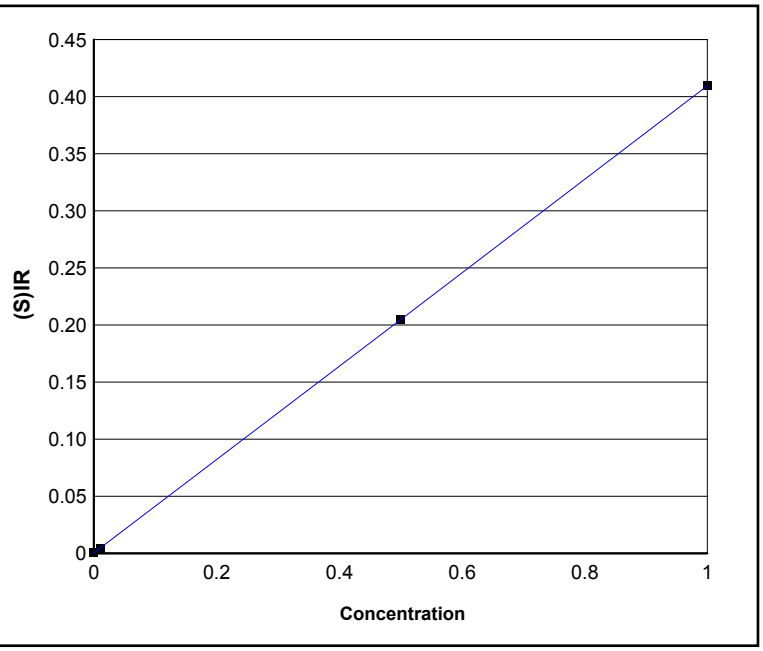
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001755	-0.0000001755	0.00000	-0.000099468	0.00012833	1
IC-4130962	0.0040000	0.0041510	0.00015097	3.7742	0.0014962	0.000029484	1
IC-4121446	0.50000	0.50630	0.0062953	1.2591	0.19449	0.00090178	1
IC-4121445	1.0000	0.99355	-0.0064463	-0.64463	0.38176	0.0010420	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0062255
A1 (Gain):	0.55896
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

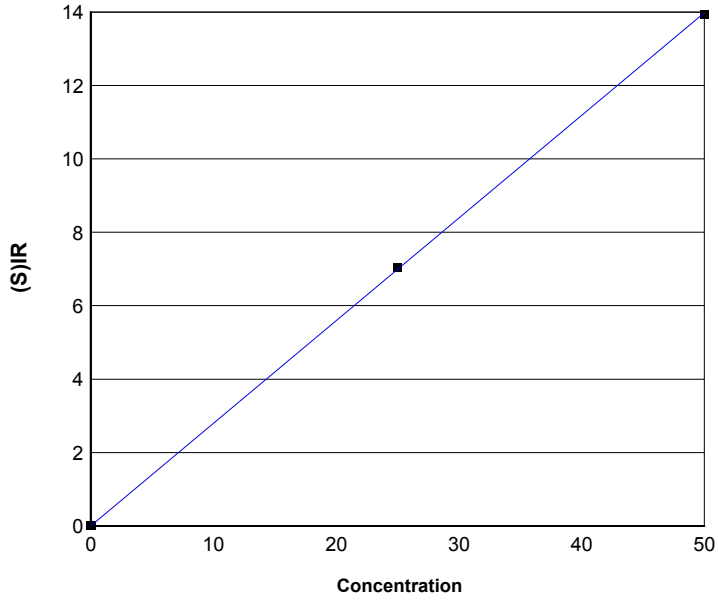
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000009267	-0.0000009267	0.00000	0.0062250	0.000049945	1
IC-4130962	0.010000	0.010940	0.00094020	9.4020	0.012341	0.000074482	1
IC-4121446	0.50000	0.49959	-0.00041375	-0.082749	0.28547	0.00068214	1
IC-4121445	1.0000	0.99947	-0.00052645	-0.052645	0.56489	0.000014487	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00031211
A1 (Gain):	0.40907
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

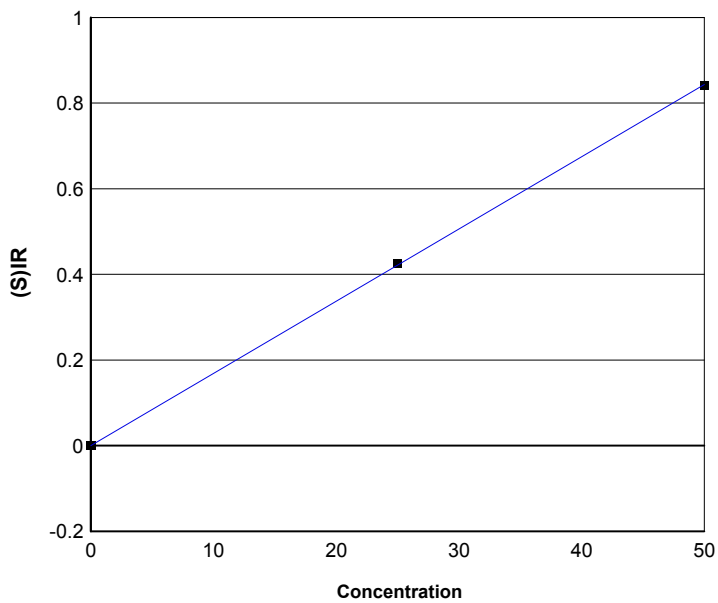
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002335	0.0000002335	0.00000	0.00031221	0.00038842	1
IC-4130962	0.010000	0.0097635	-0.00023649	-2.3649	0.0043112	0.00011331	1
IC-4121446	0.50000	0.50007	0.000065997	0.013199	0.20508	0.00049921	1
IC-4121445	1.0000	1.0002	0.00017055	0.017055	0.40986	0.00069200	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0013371
A1 (Gain):	0.27964
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

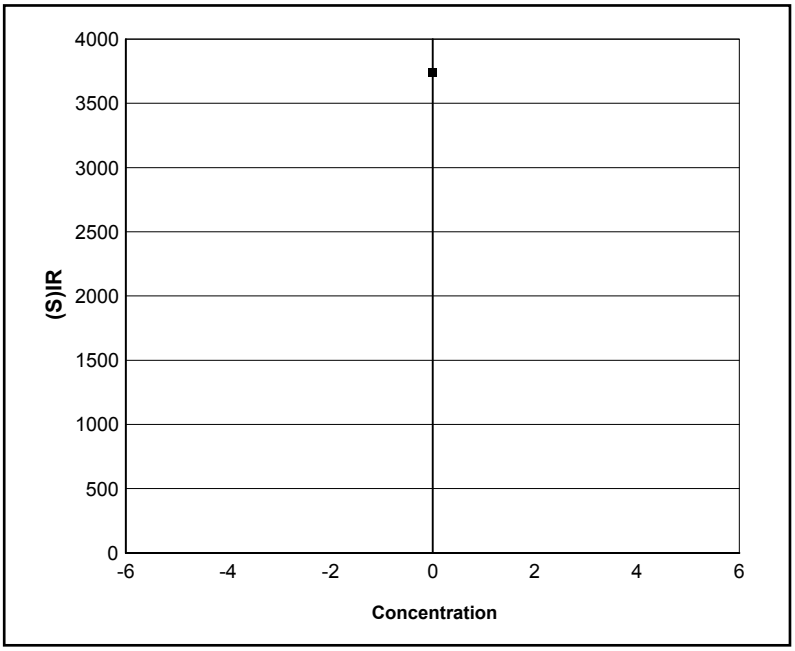
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000014639	-0.0000014639	0.00000	0.0013367	0.00017345	1
IC-4130962	0.050000	0.051317	0.0013173	2.6345	0.015687	0.00076313	1
IC-4121446	25.000	25.148	0.14791	0.59163	7.0336	0.0068281	1
IC-4121445	50.000	49.851	-0.14922	-0.29845	13.942	0.037134	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	-0.00011207
A1 (Gain):	0.016868
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

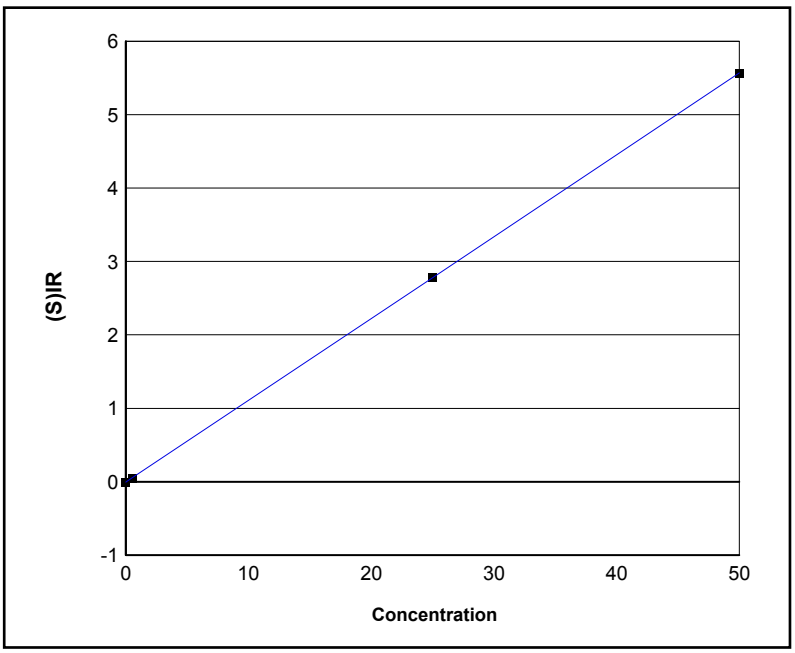
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.000024811	0.000024811	0.00000	-0.00011165	0.00059128	1
IC-4130962	0.050000	0.024948	-0.025052	-50.104	0.00030875	0.000081014	1
IC-4121446	25.000	25.216	0.21615	0.86462	0.42523	0.0022894	1
IC-4121445	50.000	49.809	-0.19110	-0.38220	0.84005	0.00049949	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:49:31AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

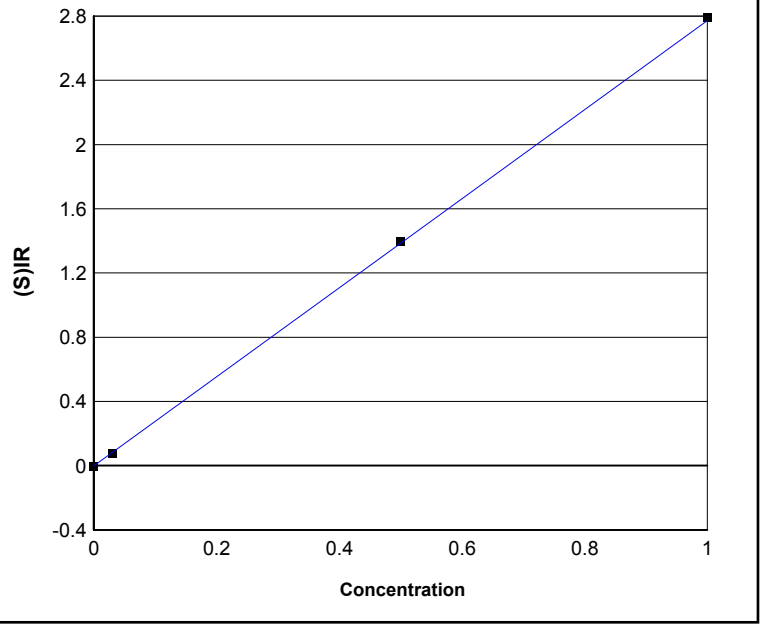
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	3,738	3.746	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0066076
A1 (Gain):	0.11149
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

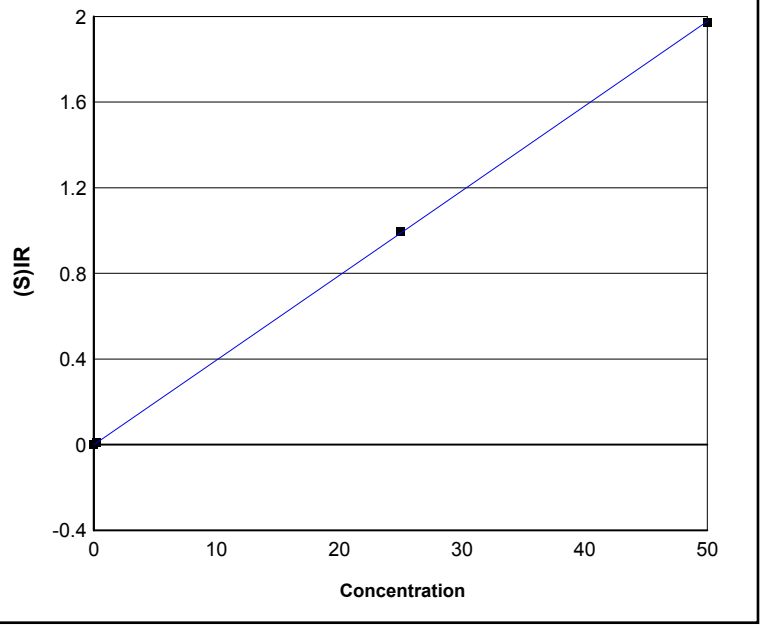
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000011678	-0.000011678	0.00000	-0.0066089	0.000025548	1
IC-4130962	0.50000	0.51120	0.011197	2.2394	0.050384	0.00075729	1
IC-4121446	25.000	25.059	0.059280	0.23712	2.7871	0.0020354	1
IC-4121445	50.000	49.930	-0.070477	-0.14095	5.5598	0.012902	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.0016939
A1 (Gain):	2.7744
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

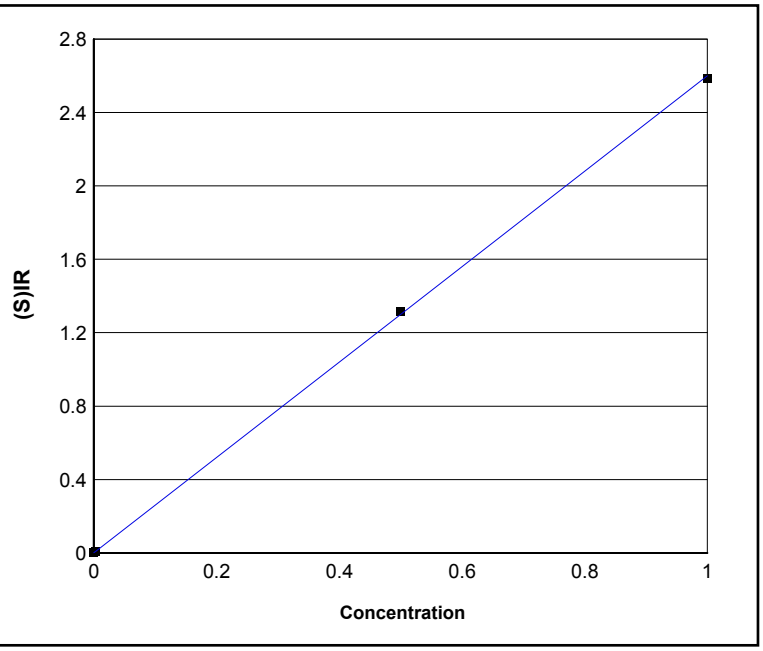
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000018389	0.0000018389	0.00000	-0.0016888	0.0017733	1
IC-4130962	0.030000	0.028084	-0.0019161	-6.3869	0.076361	0.0017351	1
IC-4121446	0.50000	0.50066	0.00066373	0.13275	1.3943	0.0075185	1
IC-4121445	1.0000	1.0012	0.0012460	0.12460	2.7900	0.0063204	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000062948
A1 (Gain):	0.039542
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

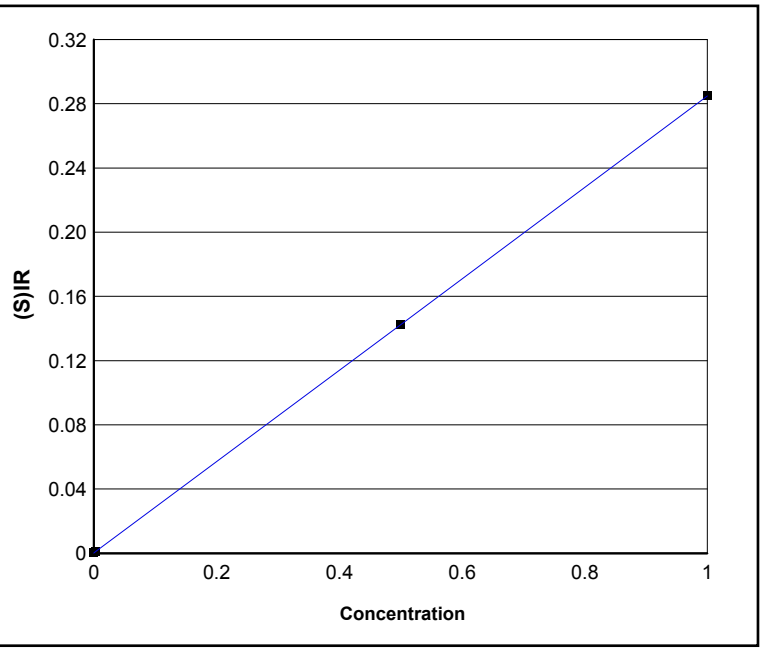
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000035646	-0.0000035646	0.00000	-0.000063089	0.000068287	1
IC-4130962	0.20000	0.20294	0.0029408	1.4704	0.0079614	0.0000054318	1
IC-4121446	25.000	25.159	0.15888	0.63552	0.99472	0.0058977	1
IC-4121445	50.000	49.838	-0.16182	-0.32364	1.9705	0.0051348	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00073638
A1 (Gain):	2.5996
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

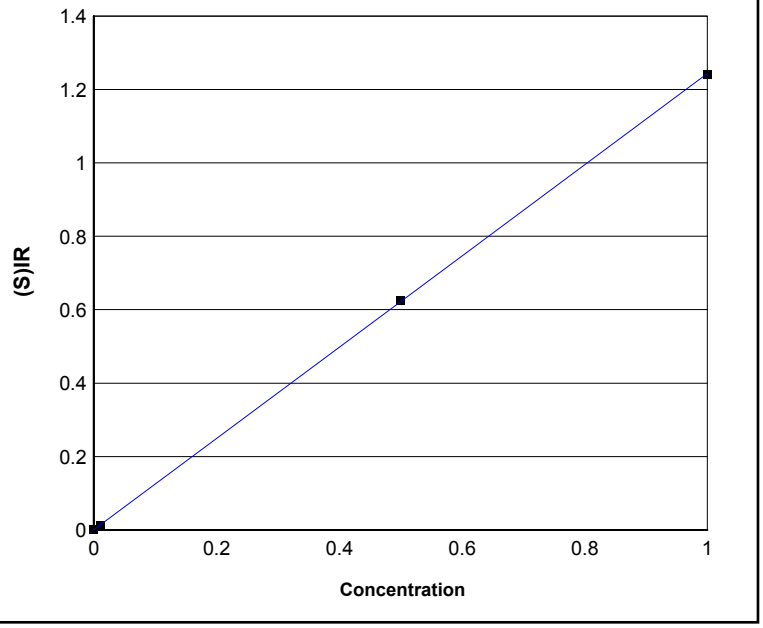
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001756	-0.0000001756	0.00000	0.00073592	0.00010243	1
IC-4130962	0.0030000	0.0031587	0.00015867	5.2890	0.0089508	0.000013388	1
IC-4121446	0.50000	0.50580	0.0057984	1.1597	1.3168	0.0029819	1
IC-4121445	1.0000	0.99404	-0.0059570	-0.59570	2.5872	0.0089697	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00021320
A1 (Gain):	0.28454
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

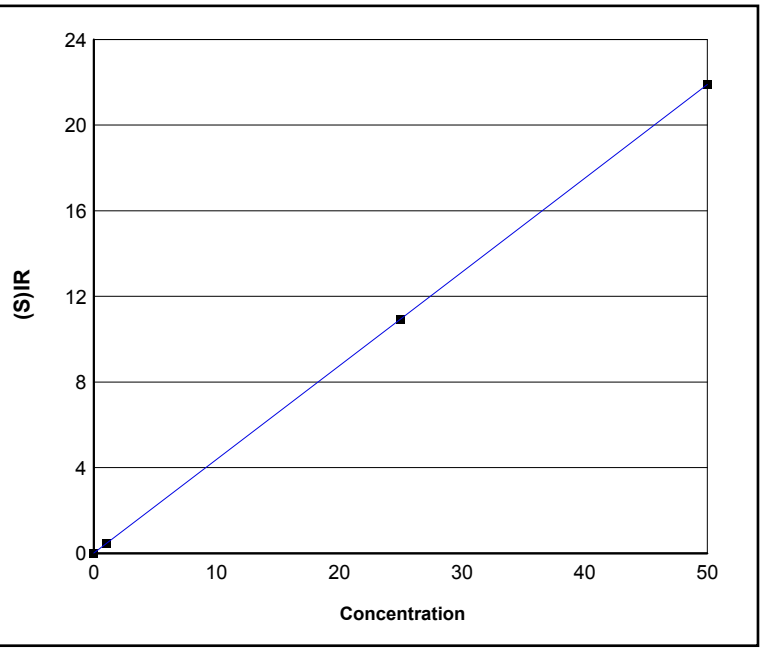
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000005145	0.0000005145	0.00000	0.00021334	0.000087365	1
IC-4130962	0.0030000	0.0024854	-0.00051463	-17.154	0.00092071	0.000084227	1
IC-4121446	0.50000	0.49954	-0.00046221	-0.092442	0.14247	0.00054644	1
IC-4121445	1.0000	1.0010	0.00097659	0.097659	0.28528	0.0016578	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00059130
A1 (Gain):	1.2425
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

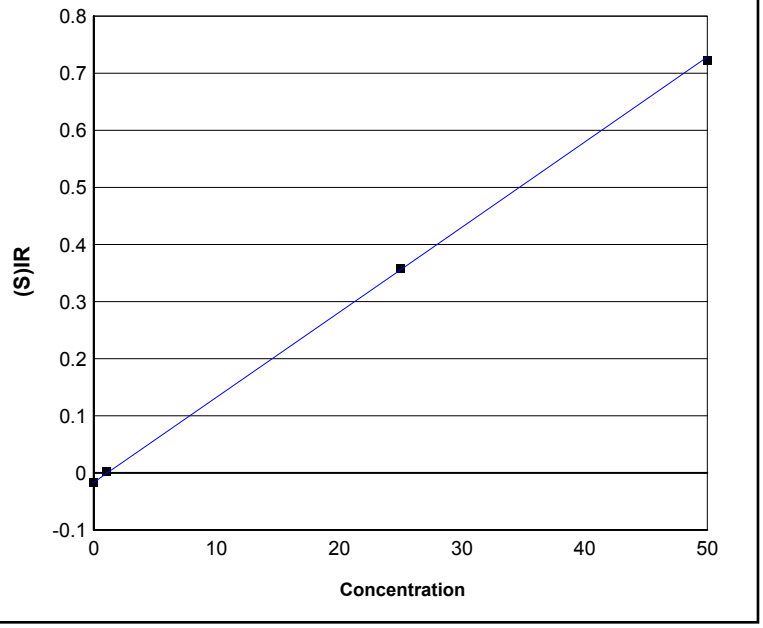
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000425	-0.0000000425	0.00000	0.00059125	0.000016109	1
IC-4130962	0.010000	0.010022	0.000022042	0.22042	0.013044	0.00018166	1
IC-4121446	0.50000	0.50207	0.0020661	0.41323	0.62441	0.0022960	1
IC-4121445	1.0000	0.99791	-0.0020882	-0.20882	1.2405	0.00040056	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0077138
A1 (Gain):	0.43782
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

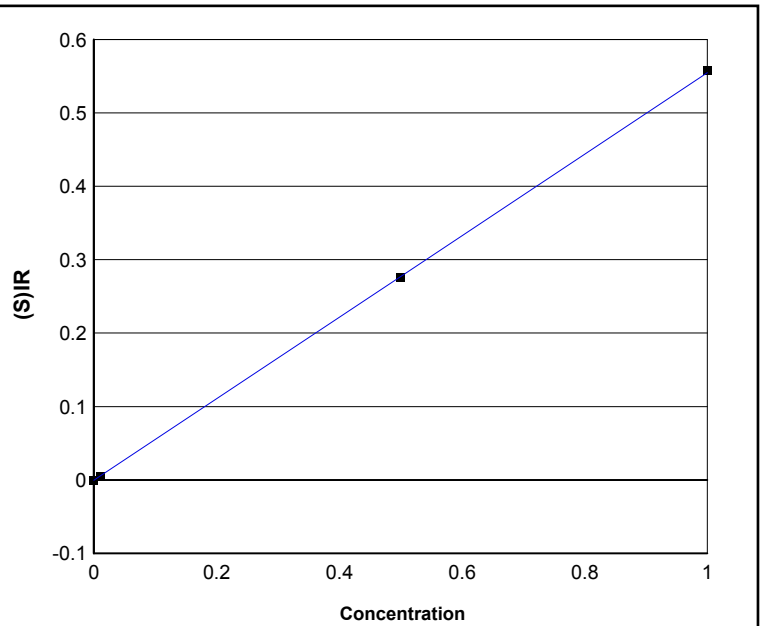
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000022430	-0.000022430	0.00000	0.0077039	0.0092604	1
IC-4130962	1.0000	1.0239	0.023937	2.3937	0.45602	0.0012104	1
IC-4121446	25.000	24.949	-0.051390	-0.20556	10.931	0.018896	1
IC-4121445	50.000	50.027	0.027453	0.054906	21.911	0.034376	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99961
A0 (Offset):	-0.016752
A1 (Gain):	0.014903
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

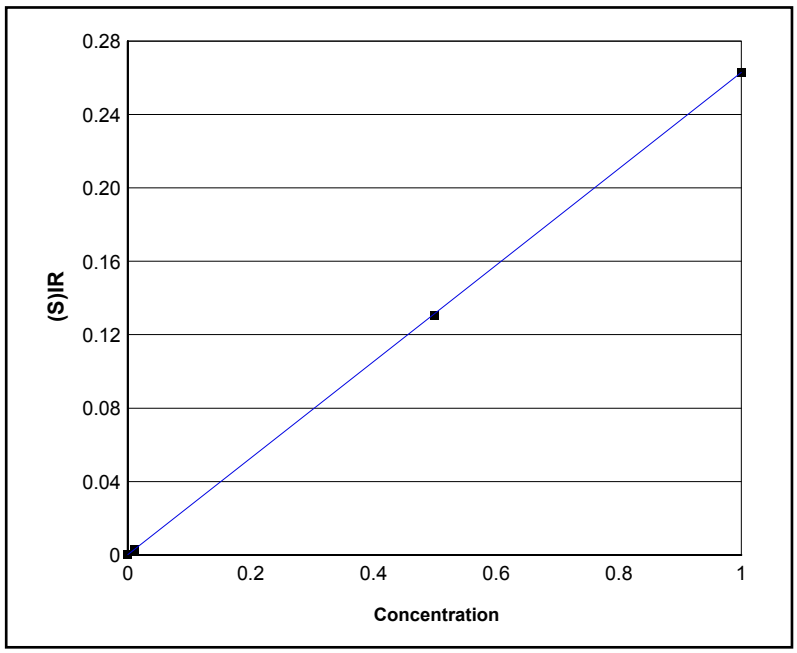
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.00023374	-0.00023374	0.00000	-0.016755	0.0033203	1
IC-4130962	1.0000	1.2351	0.23514	23.514	0.0016557	0.0027160	1
IC-4121446	25.000	25.165	0.16483	0.65930	0.35828	0.00079115	1
IC-4121445	50.000	49.600	-0.39997	-0.79994	0.72244	0.0065576	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00067630
A1 (Gain):	0.55543
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

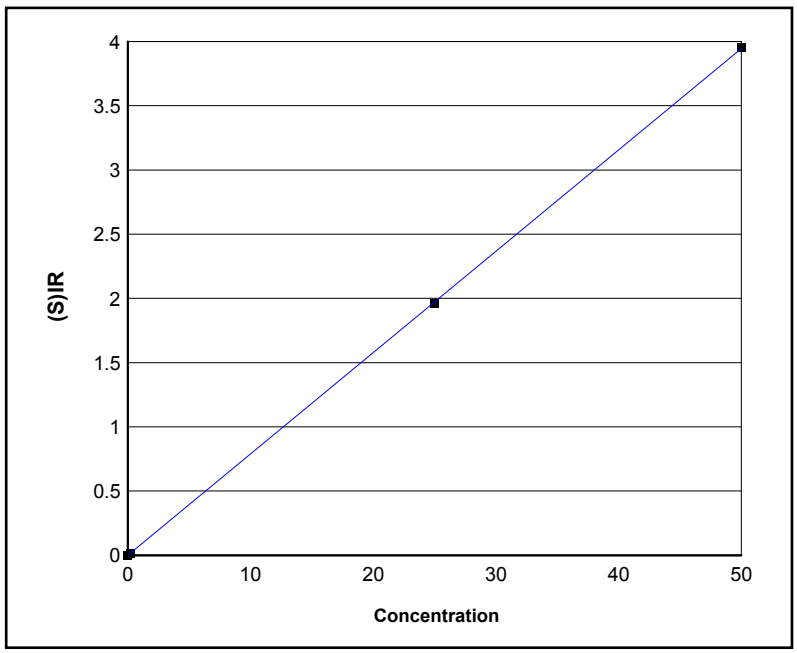
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003039	0.0000003039	0.00000	-0.00067613	0.0000089058	1
IC-4130962	0.010000	0.0097331	-0.00026689	-2.6689	0.0047303	0.000057307	1
IC-4121446	0.50000	0.49603	-0.0039699	-0.79398	0.27513	0.0012070	1
IC-4121445	1.0000	1.0042	0.0042365	0.42365	0.55770	0.00046785	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00010077
A1 (Gain):	0.26288
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

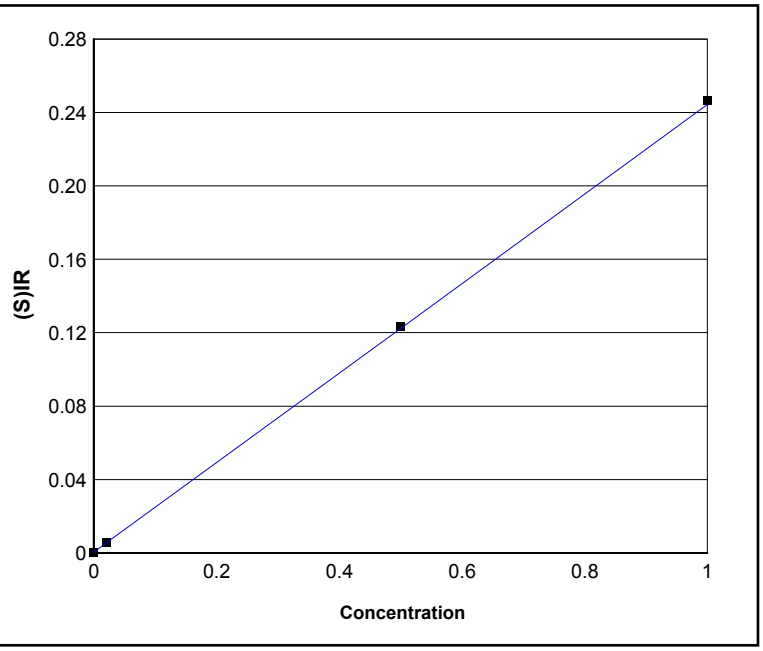
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000006692	-0.0000006692	0.00000	0.00010059	0.00013924	1
IC-4130962	0.010000	0.010699	0.00069941	6.9941	0.0029079	0.000031346	1
IC-4121446	0.50000	0.49768	-0.0023190	-0.46379	0.13066	0.00027533	1
IC-4121445	1.0000	1.0016	0.0016196	0.16196	0.26286	0.00016476	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00018609
A1 (Gain):	0.078889
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

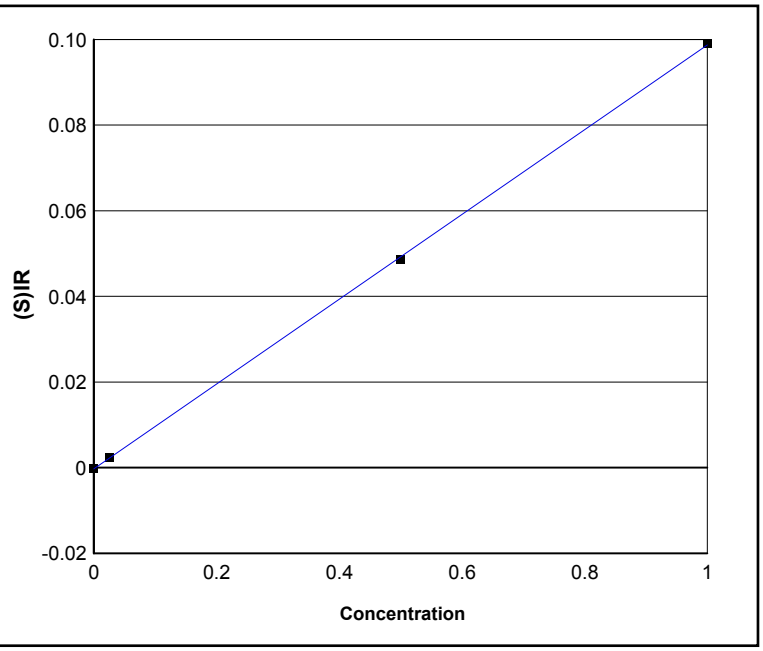
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000035131	0.0000035131	0.00000	0.00018637	0.00013043	1
IC-4130962	0.20000	0.19710	-0.0028977	-1.4488	0.015735	0.000025900	1
IC-4121446	25.000	24.843	-0.15676	-0.62704	1.9600	0.0030169	1
IC-4121445	50.000	50.160	0.15966	0.31931	3.9572	0.0019933	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00040561
A1 (Gain):	0.24388
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

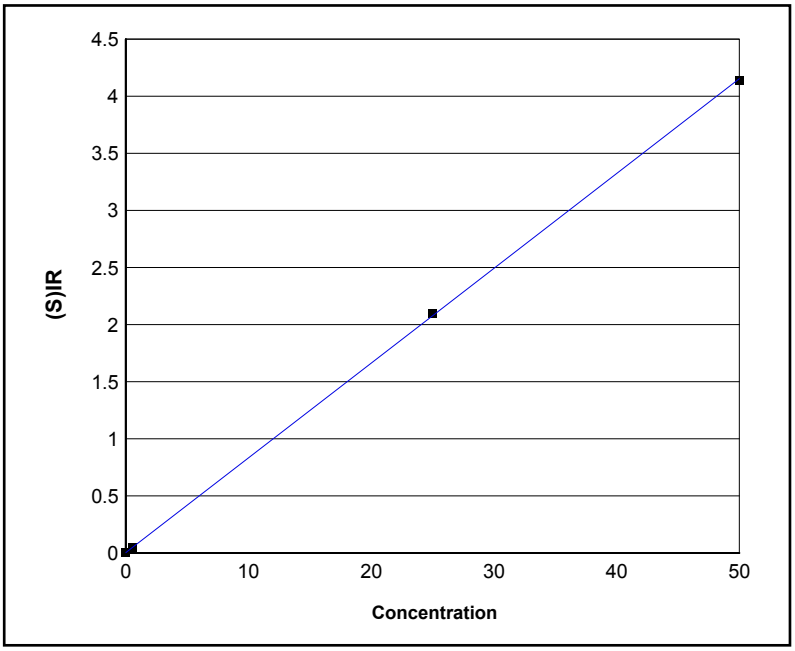
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000006914	-0.0000006914	0.00000	0.00040544	0.00038501	1
IC-4130962	0.020000	0.020718	0.00071820	3.5910	0.0054696	0.000087633	1
IC-4121446	0.50000	0.49937	-0.00062604	-0.12521	0.12322	0.00060250	1
IC-4121445	1.0000	0.99991	-0.000087784	-0.0087784	0.24633	0.00058765	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00026366
A1 (Gain):	0.099018
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

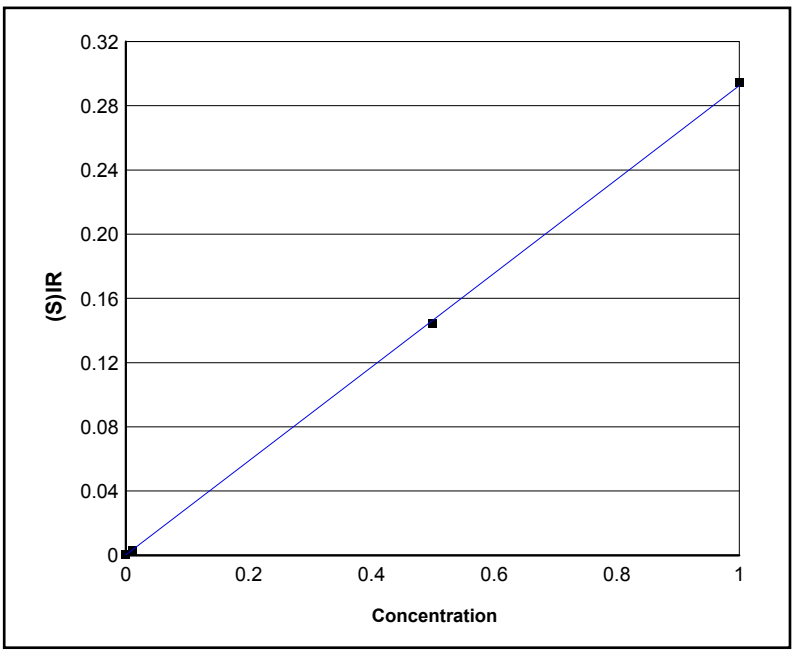
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000007351	-0.0000007351	0.00000	-0.00026373	0.00017565	1
IC-4130962	0.025000	0.025881	0.00088052	3.5221	0.0022982	0.00054576	1
IC-4121446	0.50000	0.49507	-0.0049346	-0.98692	0.048666	0.000065579	1
IC-4121445	1.0000	1.0041	0.0040528	0.40528	0.098974	0.00068050	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0033571
A1 (Gain):	0.083000
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

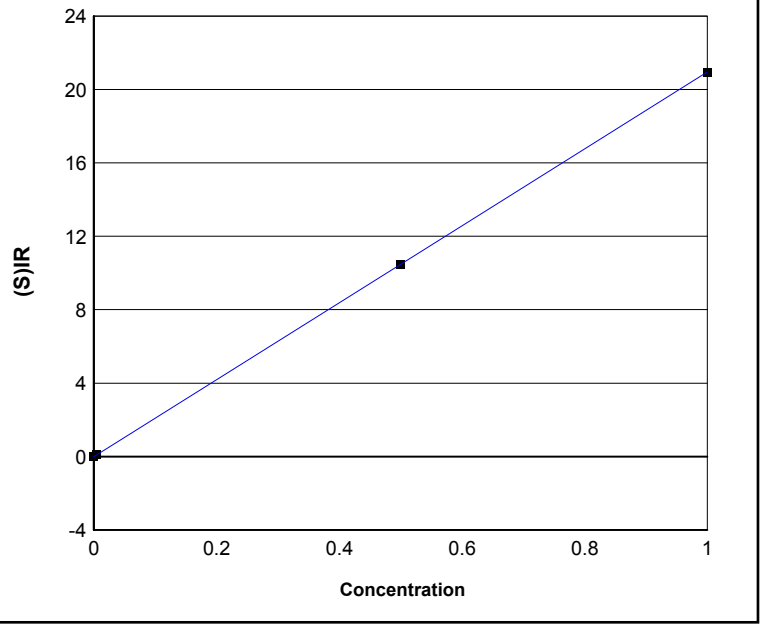
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000082609	-0.0000082609	0.00000	0.0033564	0.00030170	1
IC-4130962	0.50000	0.50655	0.0065513	1.3103	0.045401	0.00083641	1
IC-4121446	25.000	25.178	0.17751	0.71005	2.0931	0.0031741	1
IC-4121445	50.000	49.816	-0.18406	-0.36813	4.1381	0.00079807	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.00027142
A1 (Gain):	0.29234
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

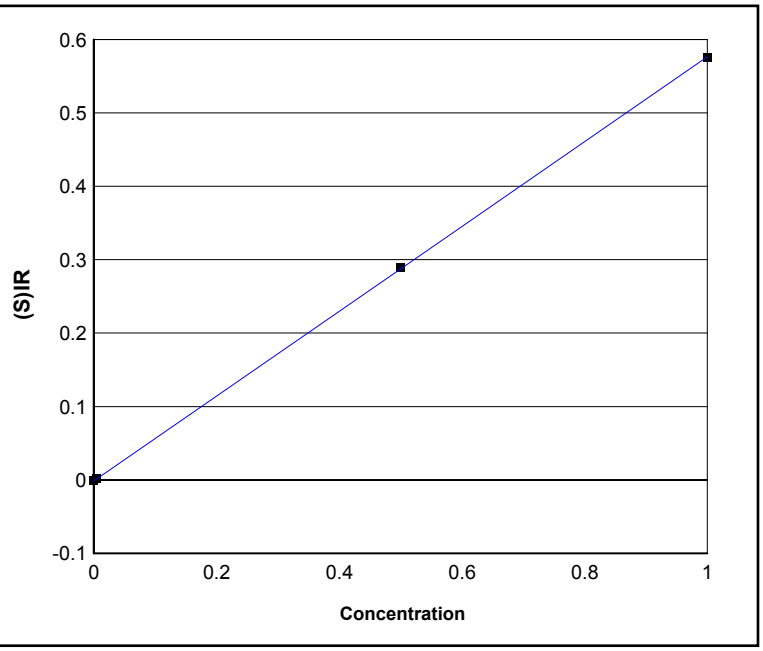
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000005805	0.0000005805	0.00000	0.00027159	0.00010048	1
IC-4130962	0.010000	0.0094822	-0.00051785	-5.1785	0.0030434	0.000043710	1
IC-4121446	0.50000	0.49322	-0.0067810	-1.3562	0.14446	0.00028115	1
IC-4121445	1.0000	1.0073	0.0072989	0.72989	0.29474	0.00019844	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0046066
A1 (Gain):	20.953
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

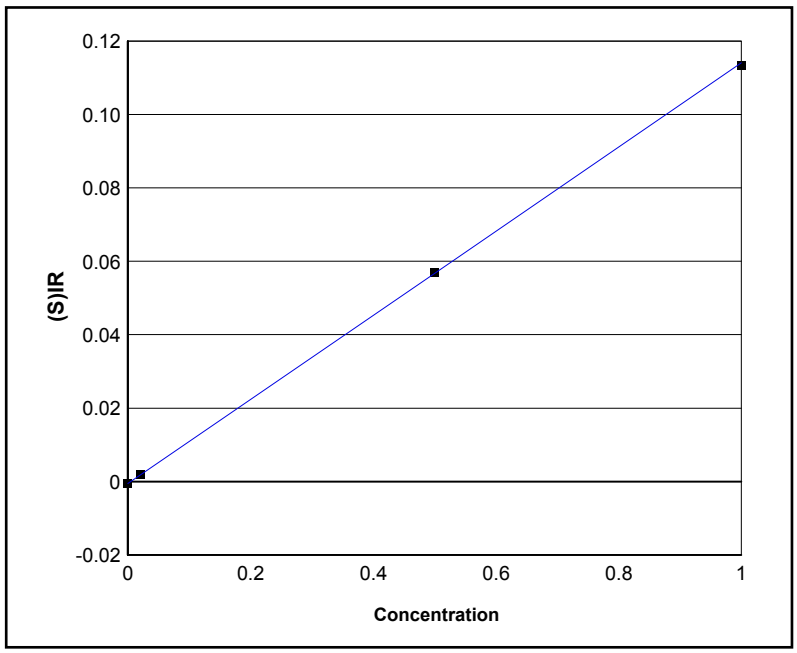
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000654	-0.0000000654	0.00000	-0.0046079	0.0012559	1
IC-4130962	0.0050000	0.0050630	0.000063025	1.2605	0.10148	0.0027795	1
IC-4121446	0.50000	0.50053	0.00052866	0.10573	10.483	0.010564	1
IC-4121445	1.0000	0.99941	-0.00059169	-0.059169	20.936	0.034244	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0011299
A1 (Gain):	0.57761
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

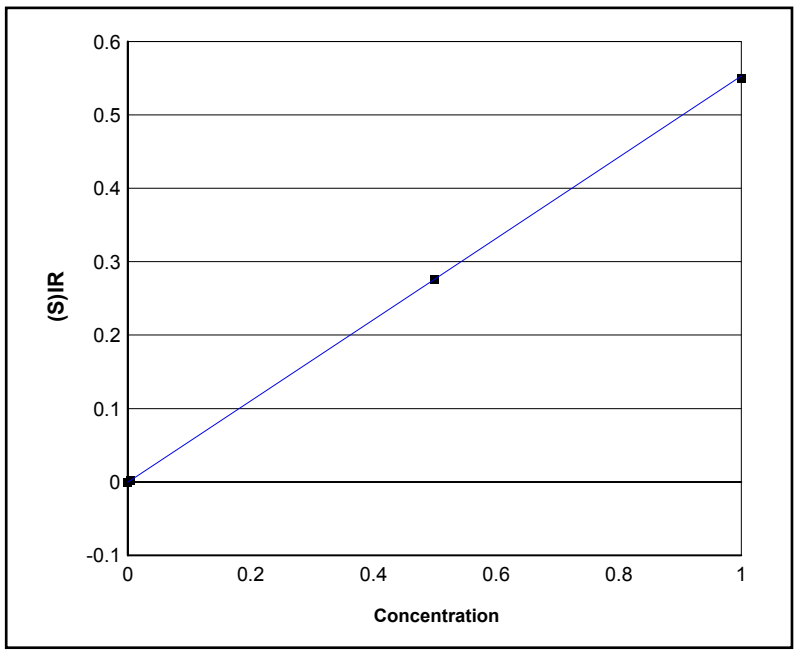
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003875	-0.0000003875	0.00000	-0.0011301	0.000035609	1
IC-4130962	0.0050000	0.0053720	0.00037198	7.4397	0.0019802	0.00012911	1
IC-4121446	0.50000	0.50347	0.0034693	0.69386	0.29008	0.0017799	1
IC-4121445	1.0000	0.99616	-0.0038417	-0.38417	0.57507	0.0018187	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00058637
A1 (Gain):	0.11464
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

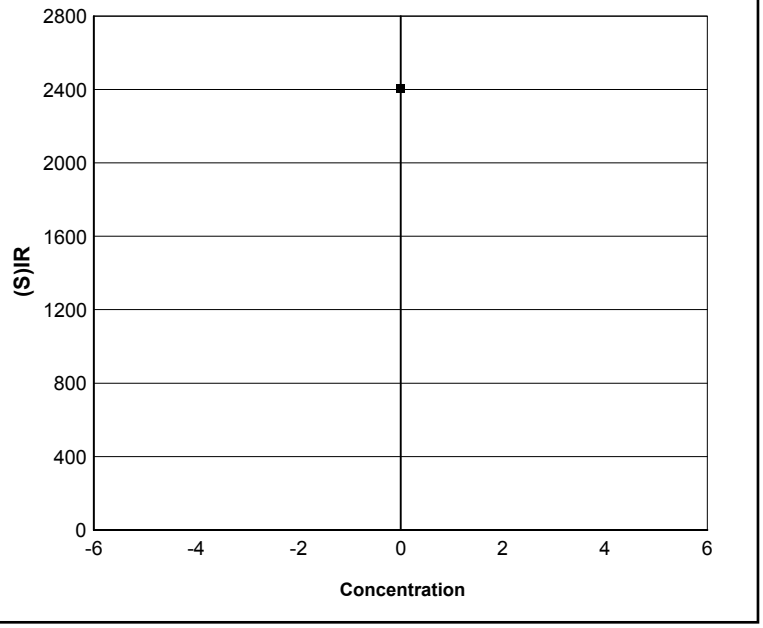
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000013844	-0.0000013844	0.00000	-0.00058652	0.000073520	1
IC-4130962	0.020000	0.021340	0.0013402	6.7009	0.0018585	0.00011664	1
IC-4121446	0.50000	0.50355	0.0035546	0.71092	0.057011	0.00022690	1
IC-4121445	1.0000	0.99510	-0.0048969	-0.48969	0.11323	0.00010427	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00020232
A1 (Gain):	0.55316
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

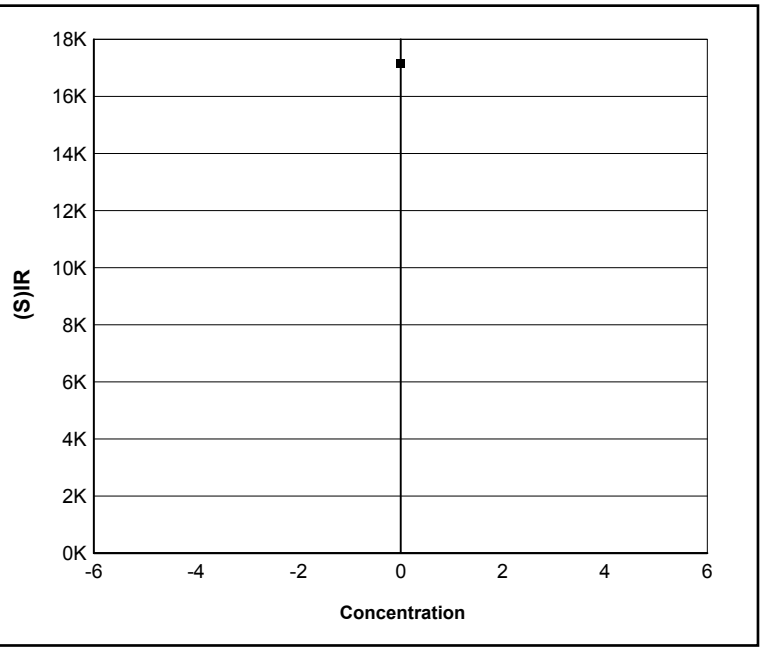
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002452	0.0000002452	0.00000	-0.00020218	0.000059765	1
IC-4130962	0.0050000	0.0047466	-0.00025341	-5.0682	0.0023951	0.00028238	1
IC-4121446	0.50000	0.50140	0.0013953	0.27906	0.27600	0.00052984	1
IC-4121445	1.0000	0.99886	-0.0011434	-0.11434	0.55002	0.0024569	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:49:31AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

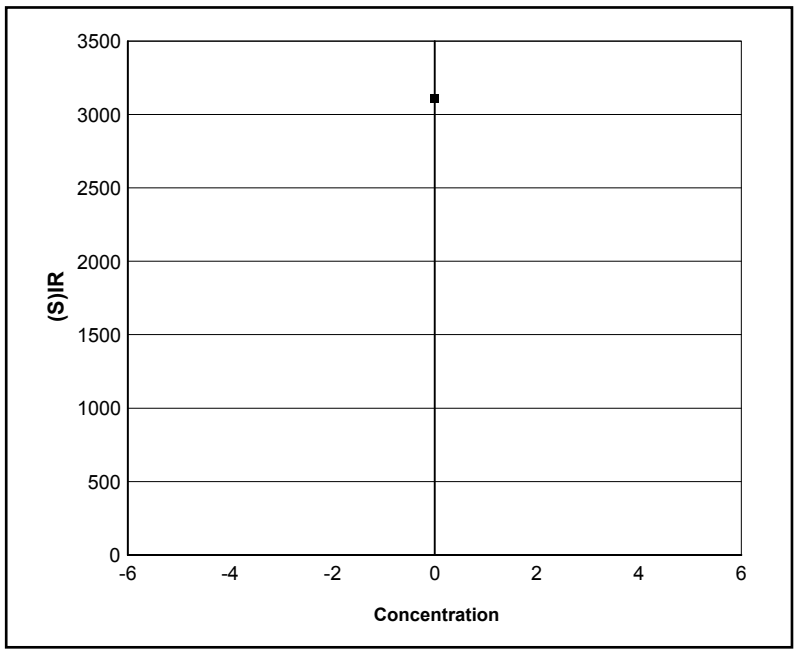
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	2,404	4.385	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:49:31AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

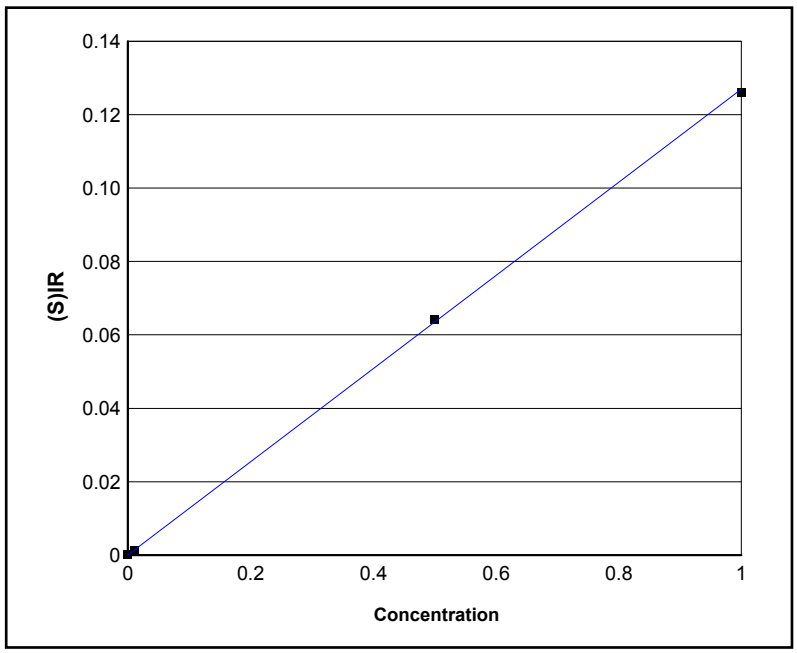
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	17,150	7.202	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:49:31AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	3,107	10.36	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.000043760
A1 (Gain):	0.12689
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000005640	-0.0000005640	0.00000	0.000043688	0.000081719	1
IC-4130962	0.010000	0.010515	0.00051483	5.1483	0.0013771	0.000083254	1
IC-4121446	0.50000	0.50543	0.0054280	1.0856	0.064065	0.00030374	1
IC-4121445	1.0000	0.99406	-0.0059433	-0.59433	0.12595	0.00027404	1

Sample Name: ICIS-4130963 Acquired: 7/27/2017 7:46:05 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00003**	**.00232**	**-.00028**	**.00285**	**.01577**
Stddev	.00002	.00014	.00001	.00009	.00108
%RSD	81.838	5.8500	1.7999	2.9985	6.8494
#1	-.00004	.00242	-.00028	.00291	.01654
#2	-.00001	.00223	-.00028	.00279	.01501

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00763**	**-.00062**	**.01015**	**.00000**	**.0007**
Stddev	.00022	.00127	.00028	.00040	.0013
%RSD	2.8853	203.49	2.7919	14160.	179.4
#1	.00747	-.00152	.00995	.00029	.0016
#2	.00778	.00027	.01035	-.00028	-.0002

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00021**	**-.00010**	**.00031**	**.00134**	**-.00011**
Stddev	.00013	.00013	.00039	.00017	.00059
%RSD	63.095	129.02	124.41	12.976	529.58
#1	-.00011	-.00001	.00004	.00121	.00031
#2	-.00030	-.00019	.00059	.00146	-.00053

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00661**	**-.00169**	**-.00006**	**.00074**	**.00021**
Stddev	.00003	.00177	.00007	.00010	.00009
%RSD	.38657	105.00	108.24	13.918	40.951
#1	-.00659	-.00294	-.00001	.00081	.00028
#2	-.00663	-.00043	-.00011	.00066	.00015

Sample Name: ICIS-4130963 Acquired: 7/27/2017 7:46:05 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00059**	**.00770**	**-.01676**	**-.00068**	**.00010**
Stddev	.00002	.00926	.00332	.00001	.00014
%RSD	2.7246	120.20	19.816	1.3172	138.41
#1	.00058	.01425	-.01441	-.00067	.00000
#2	.00060	.00116	-.01910	-.00068	.00020

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00019**	**.00041**	**-.00026**	**.00336**	**.00027**
Stddev	.00013	.00039	.00018	.00030	.00010
%RSD	69.982	94.961	66.603	8.9888	36.997
#1	.00009	.00013	-.00039	.00314	.00020
#2	.00028	.00068	-.00014	.00357	.00034

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00461**	**-.00113**	**-.00059**	**-.00020**	**.00004**
Stddev	.00126	.00004	.00007	.00006	.00008
%RSD	27.254	3.1509	12.535	29.559	187.05
#1	-.00372	-.00110	-.00064	-.00016	-.00001
#2	-.00550	-.00116	-.00053	-.00024	.00010

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3738.2**	**2404.2**	**17149.**	**3107.4**
Stddev	3.7	4.4	7.	10.4
%RSD	.10021	.18237	.04200	.33337
#1	3735.6	2401.1	17144.	3100.0
#2	3740.9	2407.3	17154.	3114.7

Sample Name: IC-4130962 Acquired: 7/27/2017 7:49:35 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00233**	**.01410**	**.00180**	**.01742**	**.03314**
Stddev	.00075	.00067	.00021	.00033	.00198
%RSD	32.299	4.7654	11.731	1.8815	5.9704
#1	.00180	.01362	.00165	.01719	.03174
#2	.00287	.01457	.00195	.01766	.03453

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06740**	**.02731**	**.20607**	**.00856**	**.00570**
Stddev	.00041	.00012	.00245	.00011	.00010
%RSD	.61444	.45134	1.1878	1.2795	1.6943
#1	.06710	.02740	.20780	.00848	.00577
#2	.06769	.02722	.20434	.00863	.00563

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00150**	**.00431**	**.01569**	**.00031**	**.05038**
Stddev	.00003	.00011	.00076	.00008	.00076
%RSD	1.9705	2.6283	4.8646	26.239	1.5031
#1	.00148	.00439	.01515	.00025	.04985
#2	.00152	.00423	.01623	.00037	.05092

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07636**	**.00796**	**.00895**	**.00092**	**.01304**
Stddev	.00174	.00001	.00001	.00008	.00018
%RSD	2.2723	.06823	.14957	9.1481	1.3927
#1	.07759	.00797	.00896	.00086	.01317
#2	.07513	.00796	.00894	.00098	.01292

Sample Name: IC-4130962 Acquired: 7/27/2017 7:49:35 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.45602**	**.00166**	**.00473**	**.00291**	**.01574**
Stddev	.00121	.00272	.00006	.00003	.00003
%RSD	.26543	164.04	1.2115	1.0780	.16460
#1	.45516	.00358	.00469	.00293	.01575
#2	.45687	-.00026	.00477	.00289	.01572

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00547**	**.00230**	**.04540**	**.00304**	**.10148**
Stddev	.00009	.00055	.00084	.00004	.00278
%RSD	1.6022	23.748	1.8423	1.4362	2.7389
#1	.00541	.00191	.04599	.00307	.09951
#2	.00553	.00268	.04481	.00301	.10345

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00198**	**.00186**	**.00240**	**.00138**
Stddev	.00013	.00012	.00028	.00008
%RSD	6.5200	6.2761	11.790	6.0456
#1	.00207	.00194	.00220	.00132
#2	.00189	.00178	.00259	.00144

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3756.4**	**2425.7**	**17280.**	**3161.6**
Stddev	8.1	6.4	32.	28.0
%RSD	.21533	.26241	.18498	.88562
#1	3762.1	2430.2	17302.	3181.4
#2	3750.7	2421.2	17257.	3141.8

Sample Name: IC-4121446 Acquired: 7/27/2017 7:53:03 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.22731**	**1.3653**	**.06025**	**.37182**	**4.8795**
Stddev	.00017	.0036	.00012	.00005	.0009
%RSD	.07458	.26007	.19123	.01422	.01908
#1	.22743	1.3628	.06033	.37178	4.8788
#2	.22719	1.3678	.06017	.37186	4.8802

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.473**	**6.6662**	**9.6806**	**1.8663**	**.0406**
Stddev	.031	.0153	.0047	.0045	.0010
%RSD	.21344	.22983	.04847	.24062	2.513
#1	14.451	6.6553	9.6840	1.8695	.0413
#2	14.495	6.6770	9.6773	1.8631	.0399

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.73541**	**.19449**	**.20508**	**7.0336**	**.42523**
Stddev	.00163	.00090	.00050	.0068	.00229
%RSD	.22140	.46367	.24343	.09708	.53839
#1	.73656	.19385	.20543	7.0288	.42685
#2	.73426	.19513	.20472	7.0385	.42361

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.7871**	**1.3943**	**.99472**	**1.3168**	**.14247**
Stddev	.0020	.0075	.00590	.0030	.00055
%RSD	.07303	.53924	.59290	.22646	.38354
#1	2.7886	1.3996	.99055	1.3147	.14209
#2	2.7857	1.3890	.99889	1.3189	.14286

Sample Name: IC-4121446 Acquired: 7/27/2017 7:53:03 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.62441**	**10.931**	**.35828**	**.27513**	**.13066**
Stddev	.00230	.019	.00079	.00121	.00028
%RSD	.36770	.17287	.22082	.43870	.21072
#1	.62603	10.917	.35772	.27598	.13047
#2	.62278	10.944	.35884	.27427	.13085

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.9600**	**.12322**	**.04867**	**2.0931**	**.14446**
Stddev	.0030	.00060	.00007	.0032	.00028
%RSD	.15392	.48894	.13475	.15165	.19463
#1	1.9622	.12365	.04862	2.0908	.14466
#2	1.9579	.12280	.04871	2.0953	.14426

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.483**	**.29008**	**.05701**	**.27600**	**.06406**
Stddev	.011	.00178	.00023	.00053	.00030
%RSD	.10077	.61359	.39799	.19197	.47412
#1	10.491	.28882	.05717	.27562	.06385
#2	10.476	.29134	.05685	.27637	.06428

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3394.0**	**2362.4**	**16642.**	**3124.7**
Stddev	3.2	1.1	67.	5.8
%RSD	.09433	.04830	.40089	.18644
#1	3396.3	2363.2	16690.	3128.8
#2	3391.7	2361.6	16595.	3120.5

Sample Name: IC-4121445 Acquired: 7/27/2017 7:56:16 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.45593**	**2.7358**	**.12179**	**.73865**	**9.7349**
Stddev	.00129	.0050	.00011	.00012	.0144
%RSD	.28187	.18216	.08824	.01569	.14839
#1	.45502	2.7394	.12186	.73857	9.7451
#2	.45684	2.7323	.12171	.73873	9.7247

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**28.191**	**13.140**	**19.225**	**3.7359**	**.0806**
Stddev	.321	.050	.048	.0025	.0004
%RSD	1.1393	.38261	.25056	.06583	.5308
#1	27.964	13.176	19.259	3.7377	.0809
#2	28.418	13.104	19.191	3.7342	.0803

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.4898**	**.38176**	**.40986**	**13.942**	**.84005**
Stddev	.0017	.00104	.00069	.037	.00050
%RSD	.11562	.27296	.16884	.26635	.05946
#1	1.4886	.38102	.40937	13.968	.83970
#2	1.4910	.38250	.41035	13.915	.84041

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.5598**	**2.7900**	**1.9705**	**2.5872**	**.28528**
Stddev	.0129	.0063	.0051	.0090	.00166
%RSD	.23207	.22654	.26058	.34670	.58112
#1	5.5690	2.7945	1.9669	2.5808	.28410
#2	5.5507	2.7856	1.9742	2.5935	.28645

Sample Name: IC-4121445 Acquired: 7/27/2017 7:56:16 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2405**	**21.911**	**.72244**	**.55770**	**.26286**
Stddev	.0004	.034	.00656	.00047	.00016
%RSD	.03229	.15689	.90770	.08389	.06268
#1	1.2402	21.935	.72708	.55803	.26275
#2	1.2408	21.887	.71781	.55736	.26298

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.9572**	**.24633**	**.09897**	**4.1381**	**.29474**
Stddev	.0020	.00059	.00068	.0008	.00020
%RSD	.05037	.23856	.68755	.01929	.06733
#1	3.9586	.24591	.09946	4.1386	.29460
#2	3.9558	.24674	.09849	4.1375	.29488

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**20.936**	**.57507**	**.11323**	**.55002**	**.12595**
Stddev	.034	.00182	.00010	.00246	.00027
%RSD	.16356	.31626	.09208	.44669	.21757
#1	20.960	.57378	.11330	.54828	.12576
#2	20.912	.57635	.11316	.55175	.12615

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3223.1**	**2320.1**	**16438.**	**3125.8**
Stddev	6.2	3.3	111.	11.7
%RSD	.19179	.14180	.67307	.37414
#1	3227.4	2322.4	16517.	3117.5
#2	3218.7	2317.7	16360.	3134.1

Sample Name: ICV-4147886 Acquired: 7/27/2017 7:59:28 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36796**	**18.851**	**.37715**	**.38024**	**.37736**
Stddev	.00273	.072	.00017	.00097	.00039
%RSD	.74069	.38443	.04468	.25443	.10222
#1	.36604	18.902	.37727	.37956	.37763
#2	.36989	18.800	.37703	.38092	.37708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38242**	**18.819**	**.37773**	**-.0068**	**.37048**
Stddev	.00073	.088	.00017	.0241	.00063
%RSD	.19217	.46954	.04581	354.7	.17004
#1	.38294	18.882	.37785	.0103	.37003
#2	.38190	18.757	.37761	-.0239	.37092
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38599**	**.38398**	**18.538**	**18.832**	**.37554**
Stddev	.00103	.00061	.139	.113	.00178
%RSD	.26571	.15904	.75090	.60016	.47304
#1	.38672	.38441	18.636	18.911	.37680
#2	.38527	.38355	18.440	18.752	.37429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4147886 Acquired: 7/27/2017 7:59:28 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.870**	**.38859**	**.37787**	**18.744**	**.37522**
Stddev	.057	.00085	.00006	.052	.00007
%RSD	.30432	.21775	.01548	.27824	.01959
#1	18.910	.38919	.37782	18.781	.37516
#2	18.829	.38800	.37791	18.707	.37527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37361**	**18.523**	**.37389**	**.37272**	**18.376**
Stddev	.00080	.003	.00019	.00041	.047
%RSD	.21524	.01387	.05011	.11128	.25371
#1	.37304	18.521	.37376	.37242	18.409
#2	.37418	18.525	.37402	.37301	18.343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37738**	**.37228**	**.38007**	**.38207**	**.37525**
Stddev	.00085	.00245	.00145	.00229	.00126
%RSD	.22498	.65770	.38236	.60045	.33636
#1	.37678	.37401	.38110	.38045	.37436
#2	.37798	.37055	.37905	.38369	.37614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4147886 Acquired: 7/27/2017 7:59:28 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.38761
Stddev	.00050
%RSD	.12905
#1	.38725
#2	.38796
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3464.7	2383.3	16895.	3157.8
Stddev	.1	.9	10.	15.7
%RSD	.00257	.03901	.05972	.49632
#1	3464.8	2382.7	16902.	3146.7
#2	3464.7	2384.0	16888.	3168.9

Sample Name: ICB-4130963 Acquired: 7/27/2017 8:02:38 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00133**	**.02691**	**.00164**	**.00027**	**.00002**
Stddev	.00082	.02331	.00098	.00026	.00002
%RSD	61.610	86.625	59.544	94.356	92.419
#1	-.00190	.04340	.00233	.00045	.00001
#2	-.00075	.01043	.00095	.00009	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00047**	**-.00002**	**.0041**	**.00005**
Stddev	.00002	.00054	.00001	.0076	.00000
%RSD	41.606	113.11	57.132	186.3	8.1120
#1	-.00004	.00085	-.00003	.0094	.00005
#2	-.00007	.00009	-.00001	-.0013	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00024**	**.00123**	**-.00323**	**-.00182**
Stddev	.00039	.00041	.00063	.03676	.00193
%RSD	63.502	171.69	50.813	1137.6	106.16
#1	.00089	-.00053	.00079	-.02922	-.00318
#2	.00034	.00005	.00168	.02276	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4130963 Acquired: 7/27/2017 8:02:38 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.00001**	**.00003**	**-.00646**	**.00016**
Stddev	.00268	.00008	.00026	.00972	.00025
%RSD	460.33	949.43	751.05	150.56	160.21
#1	.00131	-.00005	.00022	-.01333	-.00002
#2	-.00247	.00007	-.00015	.00042	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**.00781**	**.00107**	**-.00251**	**.01362**
Stddev	.00037	.00257	.00033	.00306	.00696
%RSD	47.695	32.929	30.678	121.85	51.105
#1	.00052	.00963	.00084	-.00035	.01854
#2	.00104	.00599	.00131	-.00468	.00870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00013**	**.00023**	**.00215**	**-.00001**
Stddev	.00017	.00014	.00042	.00025	.00017
%RSD	43.101	104.74	177.20	11.760	3210.7
#1	-.00028	.00003	.00053	.00233	-.00012
#2	-.00052	.00023	-.00006	.00197	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4130963 Acquired: 7/27/2017 8:02:38 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00198**
Stddev	.00029
%RSD	14.729
#1	.00178
#2	.00219
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3743.4**	**2402.0**	**17150.**	**3157.6**
Stddev	1.9	3.0	64.	10.2
%RSD	.05186	.12616	.37150	.32323
#1	3742.0	2399.9	17105.	3164.8
#2	3744.8	2404.1	17195.	3150.4

Sample Name: ICVL-4147888 Acquired: 7/27/2017 8:06:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.20513**	**.01861**	**.01974**	**.00212**
Stddev	.00065	.01029	.00258	.00008	.00002
%RSD	11.051	5.0161	13.863	.39802	.96282
#1	.00635	.19785	.01678	.01969	.00213
#2	.00543	.21241	.02043	.01980	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00212**	**.50356**	**.00210**	**.0107**	**.00408**
Stddev	.00007	.00363	.00006	.0313	.00010
%RSD	3.2626	.72099	2.6180	291.7	2.4495
#1	.00217	.50100	.00214	.0328	.00401
#2	.00207	.50613	.00207	-.0114	.00415
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**.00986**	**.04883**	**.52721**	**.02943**
Stddev	.00004	.00070	.00209	.02423	.00005
%RSD	.86809	7.1229	4.2824	4.5950	.17014
#1	.00437	.01036	.04735	.54434	.02939
#2	.00432	.00936	.05031	.51008	.02946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4147888 Acquired: 7/27/2017 8:06:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20003**	**.00310**	**.00999**	**.99721**	**.00995**
Stddev	.00262	.00001	.00023	.00839	.00014
%RSD	1.3092	.38256	2.3467	.84136	1.3667
#1	.20188	.00310	.01015	.99128	.00986
#2	.19818	.00309	.00982	1.0031	.01005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01060**	**.19467**	**.02022**	**.02572**	**.50874**
Stddev	.00035	.00179	.00001	.00275	.00425
%RSD	3.3086	.91967	.05040	10.712	.83527
#1	.01035	.19594	.02023	.02766	.50573
#2	.01085	.19341	.02021	.02377	.51174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00954**	**.00502**	**.00509**	**.02245**	**.00485**
Stddev	.00054	.00002	.00026	.00103	.00010
%RSD	5.6456	.35795	5.1889	4.5952	2.0254
#1	.00992	.00501	.00527	.02318	.00492
#2	.00916	.00504	.00490	.02172	.00478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4147888 Acquired: 7/27/2017 8:06:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01063
Stddev	.00072
%RSD	6.8168
#1	.01114
#2	.01011
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3737.5	2409.8	17309.	3158.0
Stddev	6.6	2.7	31.	11.1
%RSD	.17573	.11194	.18099	.35007
#1	3742.1	2411.7	17331.	3165.8
#2	3732.8	2407.9	17286.	3150.1

Sample Name: ICSA-4090634 Acquired: 7/27/2017 8:09:27 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**503.63**	**-.00115**	**-.00171**	**.00081**
Stddev	.00062	.59	.00457	.00041	.00002
%RSD	59.993	.11742	398.95	24.145	2.6051
#1	-.00146	504.05	-.00438	-.00200	.00080
#2	-.00059	503.21	.00209	-.00142	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**469.06**	**-.00021**	**.0781**	**-.00059**
Stddev	.00012	1.18	.00016	.0088	.00024
%RSD	131.79	.25163	75.096	11.26	41.226
#1	-.00001	468.23	-.00010	.0844	-.00042
#2	-.00018	469.90	-.00032	.0719	-.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00642**	**187.64**	**.06106**	**-.02208**
Stddev	.00015	.00017	.40	.00663	.00077
%RSD	37.782	2.6669	.21308	10.857	3.4840
#1	.00051	-.00629	187.92	.05637	-.02262
#2	.00030	-.00654	187.35	.06575	-.02154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 7/27/2017 8:09:27 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**516.79**	**.00029**	**-.00134**	**.04229**	**-.00169**
Stddev	1.05	.00003	.00023	.00198	.00027
%RSD	.20331	11.863	17.019	4.6783	16.052
#1	516.05	.00031	-.00118	.04089	-.00150
#2	517.54	.00026	-.00150	.04369	-.00189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.04539**	**.00138**	**.00251**	**.05116**
Stddev	.00174	.00157	.00014	.00317	.00297
%RSD	172.87	3.4554	10.241	126.48	5.8120
#1	-.00022	.04650	.00128	.00027	.05327
#2	.00223	.04428	.00148	.00475	.04906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.03131**	**.00118**	**.00027**	**.00180**
Stddev	.00024	.00008	.00028	.00003	.00145
%RSD	39.586	.26922	23.491	9.9850	80.233
#1	.00078	.03125	.00098	.00029	.00282
#2	.00044	.03137	.00138	.00025	.00078
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 7/27/2017 8:09:27 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00617
Stddev	.00023
%RSD	3.8074
#1	.00600
#2	.00633
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2717.6	2153.7	14940.	3050.7
Stddev	1.4	1.9	9.	2.4
%RSD	.05039	.08740	.05704	.07993
#1	2718.6	2152.4	14946.	3049.0
#2	2716.6	2155.0	14934.	3052.4

Sample Name: ICSAB-4093406 Acquired: 7/27/2017 8:12:52 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22211**	**531.56**	**.10872**	**.00111**	**.49517**
Stddev	.00170	2.00	.00064	.00015	.00068
%RSD	.76574	.37614	.59171	13.901	.13665
#1	.22091	532.97	.10918	.00100	.49469
#2	.22331	530.14	.10827	.00122	.49565
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50300**	**471.25**	**1.0029**	**.0209**	**.49138**
Stddev	.00057	2.75	.0010	.0022	.00018
%RSD	.11311	.58412	.10021	10.45	.03656
#1	.50340	469.30	1.0022	.0224	.49125
#2	.50259	473.20	1.0036	.0194	.49151
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48503**	**.51909**	**95.730**	**.01114**	**.48882**
Stddev	.00096	.00183	.073	.01407	.00167
%RSD	.19781	.35262	.07605	126.29	.34090
#1	.48571	.51779	95.782	.02109	.49000
#2	.48435	.52038	95.679	.00119	.48764
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-4093406 Acquired: 7/27/2017 8:12:52 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**539.58**	**.50204**	**-.00044**	**.16540**	**.97035**
Stddev	.38	.00072	.00020	.00425	.00143
%RSD	.07040	.14410	45.814	2.5696	.14767
#1	539.31	.50255	-.00030	.16239	.96933
#2	539.85	.50153	-.00059	.16840	.97136
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04984**	**1.0122**	**.59224**	**.05392**	**1.0041**
Stddev	.00067	.0002	.00010	.00682	.0111
%RSD	1.3464	.02222	.01611	12.641	1.1082
#1	.05031	1.0120	.59230	.04910	1.0120
#2	.04936	1.0123	.59217	.05874	.99628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00137**	**.47868**	**.00324**	**.09569**	**.51253**
Stddev	.00057	.00031	.00050	.00120	.00022
%RSD	41.756	.06527	15.459	1.2592	.04207
#1	.00177	.47846	.00289	.09654	.51238
#2	.00096	.47890	.00360	.09484	.51269
Check ?	None	None	None	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICSAB-4093406 Acquired: 7/27/2017 8:12:52 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.94047**
Stddev	.00068
%RSD	.07185
#1	.94095
#2	.93999
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2734.5**	**2164.7**	**14884.**	**3114.7**
Stddev	2.7	1.8	17.	8.2
%RSD	.09971	.08242	.11439	.26203
#1	2736.4	2165.9	14896.	3109.0
#2	2732.6	2163.4	14872.	3120.5

Sample Name: ICEX1 Acquired: 7/27/2017 8:16:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.13009**	**4.9366**	**-.00099**	**.00007**
Stddev	.00072	.02816	.0003	.00030	.00002
%RSD	139.04	21.650	.00499	30.842	24.929
#1	-.00001	.15000	4.9368	-.00077	.00008
#2	-.00103	.11017	4.9365	-.00120	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.05381**	**.00129**	**.0058**	**.00020**
Stddev	.00004	.00364	.00003	.0275	.00008
%RSD	7.0634	6.7661	2.5531	476.1	37.224
#1	.00055	.05639	.00131	.0252	.00026
#2	.00050	.05124	.00127	-.0137	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**25.739**	**.00467**	**.03127**	**-.00015**
Stddev	.00007	.006	.00031	.03193	.00101
%RSD	34.509	.02341	6.6078	102.11	687.89
#1	-.00026	25.744	.00446	.00869	-.00086
#2	-.00016	25.735	.00489	.05385	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 7/27/2017 8:16:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00837**	**.00030**	**-.00013**	**.02285**	**.00000**
Stddev	.00330	.00007	.00018	.01558	.00001
%RSD	39.420	22.169	137.04	68.162	418.61
#1	.00604	.00034	-.00000	.03387	.00001
#2	.01070	.00025	-.00026	.01184	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00271**	**.00876**	**.00083**	**-.00258**	**.05096**
Stddev	.00077	.00071	.00027	.00028	.00820
%RSD	28.423	8.1537	32.942	10.981	16.094
#1	-.00325	.00927	.00064	-.00279	.04516
#2	-.00216	.00826	.00102	-.00238	.05676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00003**	**.00073**	**.00150**	**5.0479**
Stddev	.00019	.00001	.00077	.00006	.0039
%RSD	221.11	43.455	106.60	3.7960	.07639
#1	-.00005	.00004	.00127	.00154	5.0506
#2	.00023	.00002	.00018	.00146	5.0451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 7/27/2017 8:16:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00351
Stddev	.00026
%RSD	7.3140
#1	.00333
#2	.00369
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3728.2	2405.5	17193.	3172.5
Stddev	5.4	.5	36.	11.9
%RSD	.14457	.02056	.20723	.37400
#1	3724.4	2405.2	17168.	3164.1
#2	3732.0	2405.9	17218.	3180.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.732%	100.06%	100.26%	102.10%
Range				

Sample Name: ICEX2 Acquired: 7/27/2017 8:19:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00286**	**.07126**	**-.00002**	**.00979**	**.00002**
Stddev	.00104	.00407	.00028	.00000	.00000
%RSD	36.168	5.7095	1374.1	.04932	11.322
#1	-.00360	.07413	-.00022	.00979	.00001
#2	-.00213	.06838	.00018	.00979	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02678**	**.00058**	**-.0095**	**.00145**
Stddev	.00007	.00133	.00005	.0328	.00013
%RSD	487.42	4.9782	8.3980	344.2	9.1771
#1	.00006	.02773	.00061	.0137	.00136
#2	-.00004	.02584	.00054	-.0327	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**-.00584**	**-.00246**	**.01857**	**-.00067**
Stddev	.00033	.00023	.00098	.03204	.00009
%RSD	30.232	3.9774	39.883	172.55	13.752
#1	.00132	-.00567	-.00315	.04122	-.00060
#2	.00085	-.00600	-.00176	-.00409	-.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 7/27/2017 8:19:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02753**	**.00202**	**-.00007**	**.02009**	**.00470**
Stddev	.00057	.00009	.00003	.00198	.00029
%RSD	2.0651	4.3811	41.160	9.8646	6.1800
#1	.02713	.00196	-.00009	.02149	.00449
#2	.02793	.00208	-.00005	.01869	.00490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**.00850**	**.00566**	**-.00132**	**.41303**
Stddev	.00019	.00099	.00162	.00160	.03343
%RSD	12.360	11.599	28.548	121.16	8.0931
#1	.00166	.00780	.00681	-.00019	.38939
#2	.00140	.00920	.00452	-.00245	.43667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00009**	**19.351**	**19.779**	**-.00173**
Stddev	.00016	.00001	.027	.002	.00011
%RSD	24.538	6.5690	.14017	.00790	6.4097
#1	-.00054	.00010	19.370	19.778	-.00181
#2	-.00077	.00009	19.332	19.780	-.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 7/27/2017 8:19:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00200
Stddev	.00001
%RSD	.72797
#1	.00199
#2	.00201
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3702.7	2404.8	17228.	3163.4
Stddev	.6	.9	12.	8.8
%RSD	.01722	.03825	.07211	.27804
#1	3702.2	2404.1	17219.	3169.6
#2	3703.1	2405.4	17236.	3157.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.049%	100.02%	100.46%	101.80%
Range				

Sample Name: ICEX3 Acquired: 7/27/2017 8:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00395**	**.05346**	**.00483**	**-.00114**	**.00010**
Stddev	.00079	.00768	.00040	.00027	.00001
%RSD	20.121	14.369	8.3304	23.315	14.735
#1	-.00339	.04802	.00455	-.00133	.00009
#2	-.00451	.05889	.00512	-.00095	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.03948**	**.00030**	**-.1448**	**.00011**
Stddev	.00006	.00289	.00010	.0024	.00001
%RSD	320.93	7.3151	32.294	1.682	13.174
#1	.00006	.04152	.00023	-.1431	.00010
#2	-.00002	.03743	.00036	-.1465	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00188**	**.00010**	**.01444**	**-.00136**
Stddev	.00001	.00005	.00176	.04978	.00004
%RSD	2.3138	2.6672	1774.8	344.65	2.9818
#1	.00060	.00192	.00135	.04964	-.00133
#2	.00062	.00185	-.00115	-.02076	-.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 7/27/2017 8:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04724**	**51.515**	**-.00228**	**-.00852**	**.00060**
Stddev	.00224	.149	.00009	.00164	.00028
%RSD	4.7325	.28841	3.7298	19.295	46.124
#1	-.04566	51.620	-.00222	-.00736	.00041
#2	-.04883	51.410	-.00234	-.00968	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00394**	**97.101**	**-.00128**	**-.01051**	**.00175**
Stddev	.00098	.042	.00012	.00011	.02541
%RSD	24.863	.04346	9.3241	1.0448	1451.6
#1	.00325	97.131	-.00120	-.01059	-.01622
#2	.00464	97.071	-.00137	-.01043	.01972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00007**	**.00280**	**-.01398**	**.00022**
Stddev	.00037	.00013	.00037	.00177	.00028
%RSD	67.788	183.26	13.099	12.630	124.72
#1	-.00029	.00016	.00254	-.01523	.00042
#2	-.00081	-.00002	.00306	-.01273	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 7/27/2017 8:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00734**
Stddev	.00010
%RSD	1.3135
#1	.00741
#2	.00727
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3707.4**	**2415.9**	**17093.**	**3160.6**
Stddev	11.2	4.8	14.	17.4
%RSD	.30142	.20042	.08252	.55205
#1	3715.3	2419.3	17083.	3173.0
#2	3699.5	2412.4	17103.	3148.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.175%	100.48%	99.670%	101.71%
Range				

Sample Name: ICEX4 Acquired: 7/27/2017 8:28:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.06940**	**-.00224**	**-.00342**	**.00003**
Stddev	.00090	.01615	.00051	.00037	.00001
%RSD	122.59	23.271	22.710	10.863	48.336
#1	-.00010	-.05798	-.00188	-.00368	.00002
#2	-.00136	-.08082	-.00260	-.00316	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00706**	**.00049**	**.0243**	**19.506**
Stddev	.00009	.00127	.00008	.0076	.002
%RSD	4849.4	18.025	17.206	31.17	.00965
#1	.00006	.00616	.00055	.0297	19.507
#2	-.00007	.00796	.00043	.0189	19.504
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.418**	**.00686**	**.00040**	**.02829**	**-.00189**
Stddev	.040	.00031	.00002	.01958	.00053
%RSD	.38290	4.5081	4.9174	69.204	28.023
#1	10.390	.00664	.00038	.04214	-.00226
#2	10.446	.00708	.00041	.01445	-.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 7/27/2017 8:28:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**.00064**	**.00009**	**.00151**	**-.00418**
Stddev	.00060	.00000	.00020	.00758	.00004
%RSD	14.187	.46803	218.72	503.61	1.0146
#1	.00381	.00064	-.00005	.00687	-.00415
#2	.00466	.00064	.00024	-.00385	-.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00185**	**.01570**	**-.00182**	**-.00084**	**-.02574**
Stddev	.00018	.00257	.00046	.00146	.01585
%RSD	9.9044	16.380	25.545	173.71	61.599
#1	-.00198	.01752	-.00215	-.00187	-.01453
#2	-.00172	.01388	-.00149	.00019	-.03695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00017**	**.00039**	**.01031**	**-.00016**
Stddev	.00025	.00004	.00032	.00118	.00034
%RSD	80.608	24.663	82.060	11.413	216.30
#1	-.00048	.00014	.00016	.01115	.00008
#2	-.00013	.00020	.00062	.00948	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 7/27/2017 8:28:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00027**
Stddev	.00031
%RSD	112.79
#1	.00006
#2	.00049
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3755.7**	**2405.6**	**17238.**	**3191.6**
Stddev	4.8	.1	24.	9.8
%RSD	.12736	.00563	.13734	.30605
#1	3752.3	2405.6	17255.	3198.5
#2	3759.1	2405.7	17221.	3184.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.47%	100.06%	100.52%	102.71%
Range				

Sample Name: ICEX5 Acquired: 7/27/2017 8:32:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.07612**	**.00852**	**-.00635**	**-.00001**
Stddev	.00042	.00325	.00148	.00071	.00002
%RSD	264.28	4.2692	17.423	11.250	188.87
#1	-.00046	.07382	.00747	-.00585	.00000
#2	.00014	.07842	.00957	-.00686	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.02639**	**.00007**	**.0042**	**.00090**
Stddev	.00000	.00107	.00016	.0013	.00017
%RSD	2.6598	4.0719	232.57	31.36	18.732
#1	-.00010	.02563	.00018	.0033	.00102
#2	-.00010	.02715	-.00004	.0052	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.00247**	**.00012**	**.01869**	**-.00065**
Stddev	.00051	.00003	.00105	.00749	.00099
%RSD	134.71	1.0394	862.91	40.096	152.24
#1	.00002	-.00249	-.00062	.01339	.00005
#2	.00074	-.00245	.00087	.02399	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 7/27/2017 8:32:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03416**	**.00105**	**5.1632**	**.02076**	**.00030**
Stddev	.00324	.00005	.0009	.00316	.00000
%RSD	9.4713	4.4833	.01679	15.213	1.3271
#1	-.03645	.00101	5.1626	.02299	.00029
#2	-.03187	.00108	5.1638	.01852	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.00950**	**.00260**	**-.00332**	**-.01484**
Stddev	.00062	.00057	.00120	.00178	.01895
%RSD	142.17	6.0193	46.366	53.803	127.75
#1	.00000	-.00910	.00175	-.00458	-.02824
#2	-.00087	-.00991	.00345	-.00205	-.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00015**	**-.00320**	**.00146**	**.00065**
Stddev	.00037	.00003	.00016	.00022	.00027
%RSD	100.15	20.286	5.1153	14.883	41.669
#1	-.00062	.00017	-.00309	.00130	.00046
#2	-.00011	.00013	-.00332	.00161	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 7/27/2017 8:32:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00153**
Stddev	.00000
%RSD	.01830
#1	.00153
#2	.00153
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3746.2**	**2419.3**	**17191.**	**3194.9**
Stddev	.6	1.7	16.	25.2
%RSD	.01717	.06953	.09283	.78923
#1	3745.8	2418.2	17202.	3212.7
#2	3746.7	2420.5	17180.	3177.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.21%	100.63%	100.24%	102.82%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 8:35:35 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51159**	**25.086**	**.50228**	**.50122**	**.49407**
Stddev	.00120	.180	.00226	.00036	.00046
%RSD	.23505	.71734	.45001	.07210	.09230
#1	.51244	24.959	.50068	.50097	.49375
#2	.51074	25.213	.50388	.50148	.49439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50033**	**24.901**	**.50054**	**.0091**	**.49485**
Stddev	.00384	.144	.00014	.0085	.00072
%RSD	.76655	.57917	.02889	93.74	.14523
#1	.49761	24.799	.50064	.0031	.49434
#2	.50304	25.003	.50044	.0151	.49536
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51215**	**.49670**	**24.413**	**24.308**	**.49379**
Stddev	.00034	.00046	.103	.188	.00176
%RSD	.06636	.09349	.42058	.77161	.35621
#1	.51191	.49638	24.341	24.176	.49255
#2	.51239	.49703	24.486	24.441	.49503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 8:35:35 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.022**	**.51126**	**.51150**	**24.613**	**.49959**
Stddev	.006	.00056	.00027	.166	.00006
%RSD	.02446	.10990	.05239	.67537	.01117
#1	25.018	.51087	.51131	24.496	.49963
#2	25.027	.51166	.51169	24.731	.49955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50138**	**24.794**	**.49947**	**.50952**	**24.163**
Stddev	.00015	.009	.00043	.00200	.236
%RSD	.02949	.03617	.08572	.39207	.97581
#1	.50127	24.788	.49977	.50810	23.997
#2	.50148	24.800	.49916	.51093	24.330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50611**	**.48787**	**.49613**	**.49502**	**.51500**
Stddev	.00087	.00281	.00132	.00136	.00062
%RSD	.17217	.57565	.26571	.27443	.12017
#1	.50549	.48588	.49520	.49598	.51456
#2	.50673	.48986	.49707	.49406	.51544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 8:35:35 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51028**
Stddev	.00113
%RSD	.22095
#1	.50948
#2	.51107
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3411.2**	**2373.9**	**16713.**	**3190.9**
Stddev	8.4	5.4	7.	13.3
%RSD	.24663	.22812	.04479	.41626
#1	3417.2	2377.7	16718.	3200.3
#2	3405.3	2370.1	16708.	3181.5

Sample Name: CCB-4130963 Acquired: 7/27/2017 8:38:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.01513**	**.00047**	**-.00050**	**.00001**
Stddev	.00004	.01946	.00149	.00008	.00000
%RSD	6.0173	128.66	318.67	15.739	18.445
#1	-.00070	-.00136	.00152	-.00056	.00002
#2	-.00076	-.02889	-.00059	-.00045	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00238**	**.00007**	**.0070**	**.00005**
Stddev	.00008	.00012	.00008	.0059	.00003
%RSD	365.75	5.1183	117.18	85.03	47.311
#1	.00004	.00247	.00012	.0112	.00004
#2	-.00008	.00229	.00001	.0028	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.00109**	**-.00124**	**.02578**	**-.00072**
Stddev	.00009	.00055	.00049	.00635	.00108
%RSD	20.367	50.807	39.274	24.630	149.14
#1	.00037	-.00148	-.00090	.03027	-.00149
#2	.00050	-.00070	-.00159	.02129	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 8:38:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00553**	**.00011**	**.00031**	**.00306**	**.00015**
Stddev	.00025	.00001	.00012	.00903	.00009
%RSD	4.4668	7.0085	37.151	295.64	64.292
#1	-.00570	.00012	.00023	.00944	.00008
#2	-.00535	.00011	.00039	-.00333	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00550**	**.00132**	**-.00116**	**.01614**
Stddev	.00051	.00043	.00225	.00325	.00411
%RSD	56.871	7.8833	170.83	279.69	25.454
#1	.00054	.00520	.00291	-.00346	.01905
#2	.00126	.00581	-.00027	.00114	.01324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00008**	**.00086**	**.00260**	**-.00009**
Stddev	.00035	.00001	.00034	.00035	.00016
%RSD	350.98	14.574	39.454	13.593	167.17
#1	.00015	.00009	.00111	.00235	.00002
#2	-.00035	.00007	.00062	.00285	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 8:38:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00001**
Stddev	.00012
%RSD	1177.8
#1	.00007
#2	-.00009
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3747.7**	**2404.6**	**17088.**	**3156.1**
Stddev	8.0	3.0	3.	6.1
%RSD	.21332	.12455	.01743	.19232
#1	3742.0	2402.5	17085.	3160.3
#2	3753.3	2406.8	17090.	3151.8

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:42:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00514**	**.19441**	**.01665**	**.01867**	**.00207**
Stddev	.00024	.01195	.00138	.00024	.00000
%RSD	4.6278	6.1462	8.2667	1.2968	.07135
#1	.00531	.20286	.01568	.01850	.00207
#2	.00497	.18596	.01762	.01885	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.50073**	**.00222**	**-.0009**	**.00404**
Stddev	.00008	.00748	.00005	.0071	.00021
%RSD	3.8062	1.4944	2.0879	751.6	5.1488
#1	.00212	.50602	.00219	-.0060	.00389
#2	.00201	.49544	.00225	.0041	.00418
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.00922**	**.04789**	**.50279**	**.02909**
Stddev	.00015	.00016	.00059	.01407	.00092
%RSD	3.3524	1.7665	1.2421	2.7993	3.1637
#1	.00437	.00934	.04747	.51274	.02974
#2	.00458	.00911	.04831	.49284	.02844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:42:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20417**	**.00321**	**.01018**	**.97956**	**.00981**
Stddev	.00495	.00007	.00027	.00289	.00007
%RSD	2.4250	2.2276	2.6674	.29459	.75759
#1	.20767	.00316	.00998	.97752	.00976
#2	.20067	.00326	.01037	.98160	.00986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01054**	**.19302**	**.02018**	**.02490**	**.49621**
Stddev	.00082	.00083	.00065	.00128	.01998
%RSD	7.7550	.42980	3.2040	5.1315	4.0267
#1	.00996	.19361	.02064	.02400	.51034
#2	.01112	.19244	.01973	.02580	.48208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00897**	**.00504**	**.00503**	**.02053**	**.00466**
Stddev	.00019	.00002	.00016	.00060	.00021
%RSD	2.1260	.31977	3.1054	2.9368	4.4832
#1	.00910	.00503	.00492	.02011	.00481
#2	.00883	.00505	.00514	.02096	.00451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:42:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01111
Stddev	.00036
%RSD	3.2593
#1	.01085
#2	.01136
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3754.5	2423.2	17186.	3184.4
Stddev	2.2	.3	111.	21.4
%RSD	.05825	.01198	.64637	.67283
#1	3753.0	2423.4	17265.	3169.2
#2	3756.1	2423.0	17107.	3199.5

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:57:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00516**	**.19017**	**.01681**	**.01843**	**.00203**
Stddev	.00065	.00450	.00147	.00011	.00002
%RSD	12.520	2.3670	8.7676	.61171	.78860
#1	.00561	.19335	.01577	.01835	.00205
#2	.00470	.18698	.01785	.01851	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.49723**	**.00214**	**.0207**	**.00407**
Stddev	.00000	.00404	.00006	.0006	.00000
%RSD	.14868	.81185	2.8018	2.747	.06311
#1	.00203	.49438	.00218	.0203	.00407
#2	.00203	.50009	.00210	.0211	.00408
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00443**	**.00972**	**.04818**	**.47478**	**.02883**
Stddev	.00026	.00094	.00052	.00465	.00073
%RSD	5.8802	9.6478	1.0822	.97972	2.5460
#1	.00461	.01038	.04855	.47807	.02935
#2	.00424	.00906	.04781	.47149	.02831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:57:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20176**	**.00310**	**.01028**	**.97629**	**.00977**
Stddev	.00008	.00001	.00015	.00034	.00007
%RSD	.03957	.21970	1.4604	.03470	.69012
#1	.20170	.00310	.01038	.97605	.00982
#2	.20181	.00311	.01017	.97652	.00972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01029**	**.19230**	**.01905**	**.02456**	**.50987**
Stddev	.00015	.00051	.00206	.00217	.00664
%RSD	1.4462	.26456	10.794	8.8212	1.3027
#1	.01039	.19194	.01760	.02609	.51456
#2	.01018	.19266	.02050	.02302	.50517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00950**	**.00491**	**.00547**	**.02192**	**.00513**
Stddev	.00012	.00010	.00083	.00029	.00054
%RSD	1.2857	1.9814	15.177	1.3037	10.477
#1	.00958	.00484	.00606	.02213	.00551
#2	.00941	.00498	.00489	.02172	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:57:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01092
Stddev	.00029
%RSD	2.6604
#1	.01112
#2	.01071
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3761.1	2425.2	17159.	3193.9
Stddev	13.8	8.8	42.	5.7
%RSD	.36592	.36273	.24689	.17747
#1	3751.4	2419.0	17129.	3197.9
#2	3770.9	2431.4	17188.	3189.9

Sample Name: mb 480-368365/1-b Acquired: 7/27/2017 9:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.01757**	**.00159**	**.00330**	**.00027**
Stddev	.00066	.01244	.00259	.00004	.00002
%RSD	153.24	70.796	163.01	1.2320	5.9860
#1	.00004	.00877	.00342	.00327	.00028
#2	-.00090	.02636	-.00024	.00333	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.06688**	**.00012**	**-.0120**	**.00012**
Stddev	.00000	.00249	.00007	.0190	.00008
%RSD	24.298	3.7240	54.493	158.1	65.298
#1	.00002	.06512	.00008	-.0255	.00017
#2	.00001	.06864	.00017	.0014	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00044**	**.00024**	**-.00248**	**-.00043**
Stddev	.00038	.00001	.00084	.02501	.00162
%RSD	261.67	2.4293	344.27	1007.2	378.26
#1	.00042	-.00045	.00084	.01520	-.00157
#2	-.00012	-.00043	-.00035	-.02017	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368365/1-b Acquired: 7/27/2017 9:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00078**	**-.00002**	**.00664**	**.00004**
Stddev	.00092	.00001	.00010	.00731	.00001
%RSD	63.528	1.7671	655.62	110.16	39.807
#1	.00079	.00077	-.00009	.00147	.00005
#2	.00209	.00079	.00006	.01181	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**.00575**	**.00016**	**-.00079**	**.00745**
Stddev	.00066	.00072	.00142	.00155	.00742
%RSD	74.766	12.539	882.87	195.41	99.595
#1	.00041	.00524	-.00084	-.00189	.00220
#2	.00134	.00626	.00117	.00030	.01270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.00051**	**.00073**	**.00255**	**-.00015**
Stddev	.00019	.00003	.00005	.00065	.00006
%RSD	22.494	5.6298	7.3036	25.506	41.349
#1	-.00100	.00053	.00077	.00301	-.00010
#2	-.00073	.00049	.00069	.00209	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368365/1-b Acquired: 7/27/2017 9:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00253
Stddev	.00013
%RSD	5.0046
#1	.00244
#2	.00262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3815.5	2446.5	17372.	3243.6
Stddev	6.1	1.6	61.	6.9
%RSD	.15978	.06387	.35055	.21419
#1	3811.2	2447.6	17329.	3248.5
#2	3819.9	2445.4	17415.	3238.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.07%	101.76%	101.30%	104.38%
Range				

Sample Name: lcs 480-368365/2-b Acquired: 7/27/2017 9:04:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04858**	**10.334**	**.19808**	**.20425**	**.20097**
Stddev	.00089	.024	.00336	.00036	.00027
%RSD	1.8326	.22915	1.6988	.17483	.13507
#1	.04921	10.317	.20046	.20450	.20077
#2	.04795	10.351	.19570	.20400	.20116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19877**	**10.026**	**.20151**	**.0135**	**.18910**
Stddev	.00081	.005	.00030	.0037	.00009
%RSD	.40785	.05233	.14931	27.40	.04891
#1	.19820	10.030	.20173	.0109	.18904
#2	.19935	10.023	.20130	.0161	.18917
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20069**	**.19923**	**10.292**	**9.6516**	**.19615**
Stddev	.00060	.00012	.041	.0312	.00119
%RSD	.29900	.06208	.40078	.32335	.60485
#1	.20027	.19932	10.322	9.6737	.19699
#2	.20111	.19914	10.263	9.6295	.19531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368365/2-b Acquired: 7/27/2017 9:04:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.131**	**.20807**	**.20458**	**9.6985**	**.19362**
Stddev	.026	.00046	.00035	.0080	.00001
%RSD	.25273	.21896	.16922	.08225	.00357
#1	10.113	.20775	.20482	9.7041	.19362
#2	10.149	.20839	.20433	9.6929	.19361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20180**	**9.7070**	**.19994**	**.19755**	**10.050**
Stddev	.00006	.0039	.00031	.00038	.026
%RSD	.02827	.04017	.15495	.19471	.25752
#1	.20184	9.7043	.20016	.19728	10.032
#2	.20176	9.7098	.19972	.19782	10.068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19531**	**.19445**	**.19534**	**.19639**	**.20806**
Stddev	.00018	.00001	.00044	.00115	.00062
%RSD	.09005	.00754	.22286	.58730	.29854
#1	.19518	.19444	.19504	.19557	.20850
#2	.19543	.19446	.19565	.19720	.20762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368365/2-b Acquired: 7/27/2017 9:04:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21352
Stddev	.00066
%RSD	.30679
#1	.21305
#2	.21398
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3594.8	2411.1	17075.	3238.9
Stddev	2.0	3.4	100.	.8
%RSD	.05700	.14043	.58475	.02598
#1	3593.4	2408.7	17146.	3238.3
#2	3596.3	2413.5	17005.	3239.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.163%	100.29%	99.569%	104.23%
Range				

Sample Name: lcsd 480-368365/3-b Acquired: 7/27/2017 9:07:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04998**	**10.387**	**.20167**	**.20510**	**.20355**
Stddev	.00058	.018	.00060	.00069	.00049
%RSD	1.1524	.17223	.29853	.33593	.24200
#1	.04957	10.399	.20210	.20461	.20320
#2	.05038	10.374	.20124	.20559	.20390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20207**	**10.037**	**.20298**	**.0109**	**.19150**
Stddev	.00083	.010	.00019	.0262	.00020
%RSD	.41193	.09511	.09212	241.2	.10686
#1	.20266	10.043	.20285	-.0077	.19165
#2	.20149	10.030	.20311	.0294	.19136
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20384**	**.20087**	**10.297**	**9.7314**	**.19926**
Stddev	.00015	.00173	.037	.0352	.00239
%RSD	.07300	.86190	.36173	.36211	1.1978
#1	.20395	.19964	10.323	9.7563	.20095
#2	.20374	.20209	10.270	9.7064	.19758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368365/3-b Acquired: 7/27/2017 9:07:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.300**	**.21048**	**.20738**	**9.8185**	**.19572**
Stddev	.051	.00125	.00012	.0481	.00034
%RSD	.49503	.59543	.06001	.49006	.17587
#1	10.264	.20959	.20729	9.8525	.19597
#2	10.336	.21136	.20747	9.7845	.19548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20437**	**9.8157**	**.19990**	**.19728**	**10.076**
Stddev	.00015	.0043	.00223	.00222	.064
%RSD	.07108	.04351	1.1157	1.1273	.63886
#1	.20447	9.8127	.20148	.19571	10.122
#2	.20426	9.8187	.19832	.19885	10.031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19766**	**.19683**	**.19927**	**.19979**	**.21084**
Stddev	.00112	.00085	.00077	.00166	.00020
%RSD	.56675	.43171	.38643	.83312	.09618
#1	.19845	.19743	.19872	.20096	.21070
#2	.19686	.19623	.19981	.19861	.21099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368365/3-b Acquired: 7/27/2017 9:07:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21080**
Stddev	.00167
%RSD	.79445
#1	.20961
#2	.21198
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3593.8**	**2416.5**	**17064.**	**3259.9**
Stddev	6.0	1.2	117.	.7
%RSD	.16571	.05155	.68614	.02076
#1	3589.5	2417.3	17147.	3259.4
#2	3598.0	2415.6	16981.	3260.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.135%	100.51%	99.501%	104.91%
Range				

Sample Name: 480-120452-m-1-b Acquired: 7/27/2017 9:10:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.02907**	**.00280**	**.04995**	**.04373**
Stddev	.00000	.00556	.00085	.00024	.00002
%RSD	.45683	19.135	30.521	.48535	.04284
#1	-.00083	.02514	.00219	.04978	.04372
#2	-.00083	.03301	.00340	.05012	.04374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**44.342**	**.00024**	**.0070**	**-.00014**
Stddev	.00000	.131	.00008	.0092	.00006
%RSD	6.5937	.29585	34.495	131.9	41.515
#1	.00005	44.249	.00018	.0005	-.00010
#2	.00005	44.435	.00030	.0135	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00442**	**.00800**	**1.4429**	**.00713**
Stddev	.00010	.00030	.00100	.0026	.00066
%RSD	95.974	6.6771	12.520	.17809	9.1938
#1	-.00017	.00421	.00871	1.4411	.00759
#2	-.00003	.00463	.00729	1.4447	.00666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-b Acquired: 7/27/2017 9:10:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.155**	**.00091**	**.00187**	**23.783**	**.00233**
Stddev	.046	.00005	.00007	.103	.00005
%RSD	.32574	5.1946	3.8904	.43376	1.9772
#1	14.188	.00088	.00192	23.710	.00236
#2	14.123	.00095	.00182	23.856	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00306**	**10.266**	**.00039**	**.00322**	**10.091**
Stddev	.00100	.003	.00180	.00468	.022
%RSD	32.586	.02444	467.36	145.36	.22300
#1	.00376	10.268	.00166	.00653	10.075
#2	.00235	10.265	-.00089	-.00009	10.107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01381**	**.17804**	**.00113**	**.00210**	**.00330**
Stddev	.00023	.00092	.00001	.00071	.00009
%RSD	1.6654	.51703	.81905	33.696	2.8247
#1	.01397	.17739	.00112	.00160	.00324
#2	.01365	.17869	.00113	.00260	.00337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-b Acquired: 7/27/2017 9:10:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01681
Stddev	.00044
%RSD	2.6458
#1	.01649
#2	.01712
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3519.8	2377.2	16796.	3220.8
Stddev	7.6	1.5	69.	6.9
%RSD	.21555	.06239	.41173	.21537
#1	3525.2	2378.3	16747.	3225.7
#2	3514.4	2376.2	16845.	3215.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.157%	98.877%	97.941%	103.65%
Range				

Sample Name: 480-120452-m-1-bSD@5 Acquired: 7/27/2017 9:13:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.06140**	**.00252**	**.01855**	**.00928**
Stddev	.00025	.01765	.00045	.00008	.00000
%RSD	456.42	28.752	17.892	.41676	.01945
#1	-.00023	.07389	.00220	.01860	.00928
#2	.00012	.04892	.00283	.01849	.00929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**9.0690**	**.00007**	**.0318**	**.00010**
Stddev	.00005	.0059	.00006	.0039	.00021
%RSD	329.60	.06549	80.060	12.18	203.04
#1	-.00002	9.0732	.00011	.0346	.00025
#2	.00005	9.0648	.00003	.0291	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00085**	**.00240**	**.25087**	**.00094**
Stddev	.00084	.00076	.00123	.00037	.00011
%RSD	4917.4	89.741	51.408	.14640	11.797
#1	.00058	.00139	.00153	.25113	.00102
#2	-.00061	.00031	.00327	.25061	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-bSD@5 Acquired: 7/27/2017 9:13:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8329**	**.00029**	**.00026**	**4.7698**	**.00082**
Stddev	.0024	.00000	.00000	.0095	.00005
%RSD	.08417	.20156	1.3904	.19825	5.8523
#1	2.8313	.00029	.00027	4.7632	.00086
#2	2.8346	.00029	.00026	4.7765	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**2.0111**	**.00056**	**.00045**	**2.0039**
Stddev	.00031	.0015	.00039	.00265	.0061
%RSD	38.731	.07460	69.977	586.59	.30440
#1	.00058	2.0101	.00028	-.00142	2.0082
#2	.00102	2.0122	.00084	.00233	1.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**.03660**	**.00041**	**.00138**	**.00079**
Stddev	.00049	.00014	.00053	.00002	.00018
%RSD	19.155	.37931	127.69	1.5078	22.665
#1	.00220	.03670	.00004	.00140	.00091
#2	.00288	.03651	.00078	.00137	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-bSD@5 Acquired: 7/27/2017 9:13:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00392
Stddev	.00032
%RSD	8.2420
#1	.00369
#2	.00415
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3677.0	2401.6	17011.	3185.5
Stddev	2.1	2.8	64.	5.0
%RSD	.05643	.11850	.37428	.15785
#1	3678.5	2399.6	17056.	3189.1
#2	3675.5	2403.6	16966.	3182.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.362%	99.892%	99.194%	102.52%
Range				

Sample Name: 480-120452-m-1-b PDS Acquired: 7/27/2017 9:17:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04941**	**9.8934**	**.20404**	**.24830**	**.24345**
Stddev	.00091	.0337	.00298	.00002	.00106
%RSD	1.8456	.34108	1.4628	.00940	.43507
#1	.04876	9.9173	.20616	.24832	.24420
#2	.05005	9.8696	.20193	.24828	.24270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19997**	**53.081**	**.20275**	**.0232**	**.19190**
Stddev	.00058	.110	.00051	.0035	.00050
%RSD	.28993	.20748	.24973	15.18	.26152
#1	.20038	53.158	.20239	.0256	.19155
#2	.19956	53.003	.20311	.0207	.19226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20135**	**.20208**	**10.128**	**10.951**	**.20271**
Stddev	.00035	.00017	.022	.013	.00090
%RSD	.17630	.08444	.22036	.11466	.44198
#1	.20110	.20220	10.144	10.960	.20334
#2	.20160	.20196	10.112	10.942	.20208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-b PDS Acquired: 7/27/2017 9:17:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.016**	**.20404**	**.20215**	**32.699**	**.19561**
Stddev	.061	.00082	.00054	.051	.00068
%RSD	.25437	.39997	.26626	.15680	.34760
#1	24.059	.20462	.20176	32.735	.19513
#2	23.973	.20347	.20253	32.662	.19609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20582**	**19.415**	**.20468**	**.20661**	**19.576**
Stddev	.00132	.008	.00175	.00052	.004
%RSD	.64312	.04160	.85325	.25394	.02285
#1	.20489	19.409	.20344	.20698	19.573
#2	.20676	19.420	.20591	.20624	19.579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21255**	**.36570**	**.19721**	**.19951**	**.21295**
Stddev	.00010	.00135	.00022	.00062	.00013
%RSD	.04704	.36923	.10982	.30982	.06308
#1	.21248	.36665	.19737	.19994	.21304
#2	.21262	.36474	.19706	.19907	.21285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-b PDS Acquired: 7/27/2017 9:17:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.22293
Stddev	.00042
%RSD	.18777
#1	.22263
#2	.22323
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3401.9	2356.9	16704.	3223.8
Stddev	3.9	1.3	27.	22.5
%RSD	.11354	.05338	.15983	.69791
#1	3399.1	2356.0	16685.	3207.9
#2	3404.6	2357.8	16723.	3239.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.002%	98.031%	97.402%	103.75%
Range				

Sample Name: 480-120452-m-2-b Acquired: 7/27/2017 9:20:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.03692**	**.00721**	**.12296**	**.32084**
Stddev	.00086	.00189	.00118	.00025	.00014
%RSD	69.331	5.1198	16.342	.20537	.04323
#1	-.00184	.03558	.00805	.12279	.32074
#2	-.00063	.03825	.00638	.12314	.32094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**171.32**	**.00062**	**-.0115**	**.00386**
Stddev	.00004	.18	.00002	.0098	.00012
%RSD	69.224	.10622	3.2447	85.40	3.2293
#1	.00008	171.45	.00061	-.0184	.00394
#2	.00003	171.20	.00063	-.0045	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00100**	**.00200**	**6.9799**	**.01974**
Stddev	.00027	.00131	.00027	.0163	.00002
%RSD	578.26	130.44	13.638	.23367	.12054
#1	.00014	-.00193	.00219	6.9914	.01972
#2	-.00024	-.00008	.00181	6.9684	.01975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-2-b Acquired: 7/27/2017 9:20:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.089**	**7.4645**	**.00682**	**43.411**	**.00541**
Stddev	.069	.0207	.00015	.008	.00015
%RSD	.15027	.27679	2.2241	.01916	2.8491
#1	46.138	7.4791	.00671	43.405	.00530
#2	46.040	7.4499	.00693	43.417	.00552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00381**	**49.320**	**-.00171**	**-.00477**	**15.598**
Stddev	.00049	.038	.00097	.00410	.071
%RSD	12.951	.07743	56.789	85.980	.45640
#1	.00415	49.293	-.00102	-.00767	15.648
#2	.00346	49.347	-.00239	-.00187	15.547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.71119**	**.00086**	**-.00002**	**.00001**
Stddev	.00036	.00095	.00006	.00219	.00034
%RSD	5568.5	.13364	6.4410	14065.	2808.1
#1	-.00025	.71052	.00090	-.00156	-.00023
#2	.00026	.71186	.00082	.00153	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-2-b Acquired: 7/27/2017 9:20:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02795
Stddev	.00059
%RSD	2.1235
#1	.02837
#2	.02753
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3250.3	2275.7	15973.	3151.9
Stddev	12.5	10.9	61.	5.2
%RSD	.38506	.48107	.38232	.16487
#1	3241.4	2268.0	15930.	3155.6
#2	3259.1	2283.5	16016.	3148.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.947%	94.656%	93.140%	101.43%
Range				

Sample Name: 480-120452-m-3-b Acquired: 7/27/2017 9:23:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.02678**	**.00221**	**.07759**	**.20826**
Stddev	.00018	.00356	.00158	.00049	.00110
%RSD	15.185	13.279	71.226	.62601	.52841
#1	-.00107	.02929	.00110	.07793	.20749
#2	-.00133	.02427	.00333	.07725	.20904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**71.679**	**.00145**	**-.0015**	**-.00015**
Stddev	.00008	.234	.00012	.0274	.00006
%RSD	488.16	.32676	8.3084	1870.	37.673
#1	.00004	71.845	.00154	-.0208	-.00019
#2	-.00007	71.514	.00137	.0179	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00319**	**.00119**	**.82675**	**.01678**
Stddev	.00013	.00024	.00113	.03430	.00011
%RSD	44.178	7.6615	94.884	4.1482	.65384
#1	.00019	.00336	.00199	.80250	.01670
#2	.00037	.00302	.00039	.85100	.01686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-3-b Acquired: 7/27/2017 9:23:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.271**	**.39604**	**.00032**	**34.915**	**.01269**
Stddev	.118	.00230	.00012	.054	.00009
%RSD	.58387	.58131	36.267	.15544	.71915
#1	20.187	.39441	.00024	34.954	.01275
#2	20.355	.39767	.00041	34.877	.01262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**18.315**	**.00107**	**-.00151**	**14.029**
Stddev	.00064	.016	.00249	.00263	.061
%RSD	16.430	.08630	233.56	174.29	.43240
#1	.00342	18.304	-.00069	-.00337	14.072
#2	.00432	18.326	.00283	.00035	13.986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.23373**	**.00076**	**.00341**	**.00111**
Stddev	.00006	.00133	.00013	.00027	.00043
%RSD	24.908	.56853	16.798	7.7819	38.583
#1	.00029	.23467	.00085	.00359	.00141
#2	.00021	.23279	.00067	.00322	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-3-b Acquired: 7/27/2017 9:23:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.05288
Stddev	.00011
%RSD	.20318
#1	.05280
#2	.05295
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3410.5	2329.5	16512.	3184.3
Stddev	4.1	.3	145.	6.2
%RSD	.12021	.01473	.87555	.19399
#1	3407.6	2329.3	16615.	3179.9
#2	3413.4	2329.8	16410.	3188.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.232%	96.893%	96.286%	102.48%
Range				

Sample Name: 480-120452-m-4-b Acquired: 7/27/2017 9:27:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.02774**	**.00773**	**.15228**	**.05026**
Stddev	.00092	.02117	.00143	.00019	.00013
%RSD	109.53	76.313	18.474	.12258	.26549
#1	-.00019	.04271	.00874	.15215	.05016
#2	-.00148	.01277	.00672	.15241	.05035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**241.78**	**.00042**	**.0222**	**.00152**
Stddev	.00006	.90	.00008	.0063	.00013
%RSD	854.65	.37149	19.655	28.48	8.5999
#1	.00005	242.42	.00036	.0177	.00161
#2	-.00004	241.15	.00048	.0266	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00115**	**.00540**	**6.8573**	**.02114**
Stddev	.00012	.00111	.00150	.0266	.00119
%RSD	330.69	96.772	27.730	.38834	5.6456
#1	.00005	.00036	.00434	6.8384	.02030
#2	-.00013	.00194	.00646	6.8761	.02199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-4-b Acquired: 7/27/2017 9:27:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.382**	**6.5748**	**.00529**	**67.760**	**.00202**
Stddev	.163	.0122	.00007	.032	.00004
%RSD	.25004	.18606	1.3281	.04695	2.1197
#1	65.266	6.5661	.00524	67.782	.00199
#2	65.497	6.5834	.00534	67.737	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00611**	F **101.55**	**-.00083**	**-.00605**	**17.028**
Stddev	.00082	.10	.00038	.00035	.074
%RSD	13.421	.09505	46.036	5.7729	.43386
#1	.00669	101.48	-.00056	-.00580	17.080
#2	.00553	101.61	-.00109	-.00630	16.975
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.74575**	**.00098**	**-.00025**	**-.00058**
Stddev	.00116	.00091	.00016	.00059	.00036
%RSD	216.75	.12224	15.878	234.80	61.782
#1	.00029	.74639	.00087	.00017	-.00083
#2	-.00136	.74510	.00109	-.00067	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-4-b Acquired: 7/27/2017 9:27:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00992
Stddev	.00065
%RSD	6.5076
#1	.00947
#2	.01038
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3149.3	2224.0	15883.	3133.6
Stddev	3.3	4.1	30.	21.2
%RSD	.10626	.18293	.18955	.67716
#1	3147.0	2221.2	15904.	3118.6
#2	3151.7	2226.9	15861.	3148.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.247%	92.506%	92.615%	100.84%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 9:30:26 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51451**	**25.084**	**.49898**	**.49886**	**.49058**
Stddev	.00344	.108	.00045	.00006	.00254
%RSD	.66780	.43182	.09015	.01278	.51844
#1	.51208	25.160	.49866	.49882	.49238
#2	.51694	25.007	.49930	.49891	.48878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49851**	**24.872**	**.49894**	**.0049**	**.49344**
Stddev	.00287	.078	.00025	.0171	.00066
%RSD	.57581	.31542	.04991	350.9	.13310
#1	.50053	24.928	.49911	-.0072	.49391
#2	.49648	24.817	.49876	.0170	.49298
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51240**	**.49310**	**24.303**	**24.167**	**.49038**
Stddev	.00280	.00148	.157	.183	.00331
%RSD	.54600	.29916	.64409	.75927	.67398
#1	.51042	.49206	24.414	24.297	.49271
#2	.51438	.49415	24.192	24.037	.48804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 9:30:26 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.970**	**.51128**	**.51031**	**24.447**	**.49832**
Stddev	.086	.00106	.00035	.127	.00032
%RSD	.34253	.20670	.06824	.51980	.06422
#1	25.030	.51203	.51056	24.537	.49809
#2	24.909	.51054	.51007	24.357	.49854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49927**	**24.702**	**.49472**	**.50618**	**24.176**
Stddev	.00237	.025	.00089	.00323	.088
%RSD	.47545	.10002	.18056	.63858	.36284
#1	.50095	24.719	.49409	.50389	24.238
#2	.49759	24.685	.49535	.50846	24.114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50355**	**.48356**	**.49440**	**.49163**	**.51918**
Stddev	.00008	.00327	.00317	.00125	.00054
%RSD	.01573	.67679	.64185	.25444	.10368
#1	.50349	.48587	.49664	.49075	.51880
#2	.50360	.48125	.49215	.49252	.51956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 9:30:26 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51880**
Stddev	.00044
%RSD	.08405
#1	.51911
#2	.51849
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3389.5**	**2358.9**	**16541.**	**3180.8**
Stddev	3.9	.7	61.	45.0
%RSD	.11570	.03053	.36846	1.4133
#1	3386.7	2358.4	16497.	3149.1
#2	3392.3	2359.4	16584.	3212.6

Sample Name: CCB-4130963 Acquired: 7/27/2017 9:33:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.00001**	**.00161**	**-.00086**	**.00002**
Stddev	.00037	.00794	.00323	.00019	.00003
%RSD	67.275	112780.	201.08	22.079	143.92
#1	-.00082	-.00562	.00389	-.00100	-.00000
#2	-.00029	.00561	-.00068	-.00073	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00481**	**.00004**	**.0316**	**.00007**
Stddev	.00001	.00027	.00010	.0212	.00010
%RSD	135.81	5.6932	293.74	67.01	145.80
#1	.00002	.00500	.00011	.0166	-.00000
#2	.00000	.00461	-.00004	.0466	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.00030**	**-.00128**	**.01554**	**.00036**
Stddev	.00041	.00072	.00087	.00849	.00003
%RSD	89.115	241.21	68.545	54.647	8.4397
#1	.00017	.00021	-.00189	.00954	.00038
#2	.00075	-.00080	-.00066	.02155	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 9:33:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00007**	**-.00025**	**.00346**	**.00053**
Stddev	.00134	.00008	.00008	.00748	.00008
%RSD	405.08	111.39	33.507	216.45	15.483
#1	.00128	.00001	-.00030	.00875	.00059
#2	-.00062	.00012	-.00019	-.00183	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00537**	**.00088**	**-.00227**	**.02489**
Stddev	.00014	.00141	.00270	.00132	.02187
%RSD	17.843	26.282	307.30	58.255	87.860
#1	.00089	.00637	.00279	-.00321	.04036
#2	.00069	.00437	-.00103	-.00134	.00943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00002**	**.00021**	**.00272**	**-.00057**
Stddev	.00055	.00009	.00044	.00004	.00067
%RSD	320.25	462.32	215.92	1.4610	118.90
#1	.00022	-.00005	-.00011	.00275	-.00009
#2	-.00056	.00009	.00052	.00269	-.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 9:33:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00011**
Stddev	.00055
%RSD	507.20
#1	.00028
#2	-.00050
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3746.5**	**2404.2**	**17105.**	**3196.3**
Stddev	3.2	3.2	.	10.7
%RSD	.08608	.13266	.00276	.33606
#1	3748.8	2406.4	17105.	3203.9
#2	3744.3	2401.9	17104.	3188.7

Sample Name: CCVL-4147888 Acquired: 7/27/2017 9:37:00 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00573**	**.19174**	**.01737**	**.01877**	**.00204**
Stddev	.00105	.01699	.00111	.00024	.00004
%RSD	18.305	8.8606	6.3845	1.3020	1.7365
#1	.00499	.20376	.01815	.01894	.00202
#2	.00647	.17973	.01659	.01859	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.50061**	**.00217**	**.0320**	**.00402**
Stddev	.00013	.00562	.00016	.0004	.00012
%RSD	6.3381	1.1230	7.3110	1.405	3.0897
#1	.00215	.49663	.00205	.0323	.00411
#2	.00196	.50458	.00228	.0317	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00380**	**.00943**	**.04688**	**.50375**	**.02939**
Stddev	.00024	.00012	.00258	.02326	.00097
%RSD	6.2659	1.2819	5.4975	4.6173	3.3007
#1	.00363	.00951	.04506	.48730	.02870
#2	.00397	.00934	.04871	.52020	.03007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 9:37:00 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20351**	**.00346**	**.01015**	**.97822**	**.00978**
Stddev	.00894	.00047	.00003	.00946	.00002
%RSD	4.3944	13.741	.29261	.96743	.16353
#1	.19718	.00312	.01017	.97153	.00976
#2	.20983	.00379	.01012	.98491	.00979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01073**	**.19842**	**.01868**	**.02327**	**.50138**
Stddev	.00009	.00331	.00174	.00401	.01417
%RSD	.80545	1.6669	9.3267	17.228	2.8272
#1	.01079	.20076	.01991	.02044	.51140
#2	.01067	.19608	.01745	.02611	.49135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00892**	**.00488**	**.00539**	**.02146**	**.00501**
Stddev	.00016	.00005	.00073	.00099	.00011
%RSD	1.7610	1.0668	13.553	4.6205	2.2426
#1	.00903	.00484	.00591	.02076	.00493
#2	.00881	.00491	.00487	.02216	.00509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 9:37:00 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01087
Stddev	.00010
%RSD	.90920
#1	.01094
#2	.01080
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3771.0	2432.8	17125.	3187.0
Stddev	8.5	2.1	47.	5.3
%RSD	.22530	.08469	.27400	.16525
#1	3765.0	2431.3	17092.	3190.7
#2	3777.0	2434.2	17158.	3183.2

Sample Name: 480-120452-m-5-b Acquired: 7/27/2017 9:40:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**.02483**	**.00418**	**.17113**	**.36363**
Stddev	.00043	.02341	.00085	.00045	.00134
%RSD	34.167	94.303	20.454	.26136	.36935
#1	-.00095	.00827	.00478	.17082	.36269
#2	-.00155	.04139	.00357	.17145	.36458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**158.10**	**.00096**	**.0156**	**.00364**
Stddev	.00001	.79	.00003	.0121	.00012
%RSD	63.046	.49907	2.6653	77.50	3.2284
#1	.00003	157.54	.00098	.0242	.00372
#2	.00001	158.66	.00094	.0071	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00064**	**.00357**	**3.7756**	**.00966**
Stddev	.00033	.00093	.00188	.0722	.00067
%RSD	96.840	145.26	52.568	1.9135	6.9435
#1	.00057	.00002	.00490	3.7246	.01013
#2	.00011	-.00129	.00224	3.8267	.00918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-5-b Acquired: 7/27/2017 9:40:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.422**	**5.4808**	**.00860**	**40.663**	**.01967**
Stddev	.249	.0187	.00005	.182	.00047
%RSD	.47464	.34071	.58685	.44801	2.4068
#1	52.246	5.4676	.00863	40.534	.02001
#2	52.598	5.4940	.00856	40.792	.01934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00446**	**24.064**	**.00126**	**.00026**	**15.441**
Stddev	.00236	.026	.00214	.00106	.059
%RSD	52.824	.10647	170.38	401.04	.37955
#1	.00280	24.046	-.00026	.00101	15.399
#2	.00613	24.082	.00277	-.00048	15.482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.57207**	**.00113**	**.00016**	**.00028**
Stddev	.00086	.00448	.00047	.00013	.00012
%RSD	991.84	.78357	41.522	81.680	43.255
#1	-.00069	.56890	.00146	.00007	.00020
#2	.00052	.57524	.00080	.00025	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-5-b Acquired: 7/27/2017 9:40:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02458
Stddev	.00033
%RSD	1.3510
#1	.02482
#2	.02435
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3271.8	2298.5	16266.	3189.3
Stddev	1.9	2.5	100.	15.3
%RSD	.05806	.10922	.61681	.48080
#1	3270.4	2296.7	16337.	3200.1
#2	3273.1	2300.3	16195.	3178.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.521%	95.602%	94.850%	102.64%
Range				

Sample Name: 480-120452-m-7-b Acquired: 7/27/2017 9:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00155**	**.03195**	**.00289**	**.11267**	**.06347**
Stddev	.00011	.01609	.00180	.00035	.00010
%RSD	6.9693	50.376	62.381	.30700	.15735
#1	-.00163	.04333	.00416	.11291	.06354
#2	-.00147	.02057	.00161	.11243	.06340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**290.77**	**.00116**	**.0195**	**.00692**
Stddev	.00004	.64	.00015	.0458	.00003
%RSD	68.072	.21850	13.091	234.8	.47843
#1	-.00003	290.33	.00105	-.0129	.00694
#2	-.00009	291.22	.00127	.0519	.00690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.06294**	**.00143**	**7.8185**	**.02005**
Stddev	.00050	.00046	.00320	.0069	.00116
%RSD	3901.4	.72291	224.26	.08861	5.8029
#1	.00034	.06262	-.00084	7.8136	.02088
#2	-.00037	.06326	.00369	7.8234	.01923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-7-b Acquired: 7/27/2017 9:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**104.08**	**5.9184**	**.00427**	**135.27**	**.00925**
Stddev	.18	.0034	.00013	.05	.00030
%RSD	.17427	.05744	2.9676	.03671	3.2952
#1	103.95	5.9160	.00436	135.31	.00946
#2	104.21	5.9208	.00418	135.24	.00903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	F **168.33**	**-.00079**	**-.00633**	**15.818**
Stddev	.00125	.28	.00144	.00204	.061
%RSD	25.065	.16589	181.88	32.241	.38515
#1	.00588	168.14	-.00181	-.00489	15.775
#2	.00411	168.53	.00023	-.00777	15.861
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.53814**	**.00118**	**.00046**	**.00029**
Stddev	.00034	.00091	.00021	.00048	.00063
%RSD	38.018	.16946	17.736	102.23	217.07
#1	-.00114	.53750	.00103	.00013	.00073
#2	-.00066	.53879	.00133	.00080	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-7-b Acquired: 7/27/2017 9:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.13823
Stddev	.00027
%RSD	.19628
#1	.13842
#2	.13804
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3043.5	2187.2	15595.	3133.4
Stddev	3.0	5.4	10.	7.6
%RSD	.09728	.24735	.06187	.24208
#1	3045.6	2191.0	15602.	3138.7
#2	3041.4	2183.4	15589.	3128.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.416%	90.973%	90.939%	100.84%
Range				

Sample Name: 480-120452-m-10-b Acquired: 7/27/2017 9:47:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00210**	**.01976**	**.02301**	**.15695**	**.33174**
Stddev	.00020	.03095	.00337	.00020	.00066
%RSD	9.6260	156.69	14.661	.12945	.19874
#1	-.00196	.04164	.02063	.15681	.33128
#2	-.00225	-.00213	.02540	.15710	.33221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**184.39**	**.00060**	**.0312**	**.00287**
Stddev	.00002	.24	.00005	.0136	.00010
%RSD	61.132	.12813	9.0768	43.54	3.3169
#1	-.00005	184.56	.00057	.0216	.00280
#2	-.00002	184.23	.00064	.0408	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00096**	**.00498**	**7.9910**	**.03470**
Stddev	.00018	.00115	.00176	.0163	.00038
%RSD	27.162	119.38	35.273	.20422	1.0894
#1	.00053	-.00015	.00623	8.0025	.03497
#2	.00078	-.00177	.00374	7.9795	.03443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-10-b Acquired: 7/27/2017 9:47:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.812**	**5.3173**	**.00572**	**63.183**	**.00322**
Stddev	.096	.0122	.00018	.269	.00028
%RSD	.18800	.22873	3.0868	.42566	8.5969
#1	50.745	5.3087	.00559	62.993	.00302
#2	50.880	5.3259	.00584	63.373	.00341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00471**	**35.973**	**.00000**	**-.00109**	**18.569**
Stddev	.00150	.010	.00030	.00092	.020
%RSD	31.957	.02698	8254.8	84.862	.10578
#1	.00577	35.966	-.00021	-.00174	18.582
#2	.00364	35.980	.00022	-.00043	18.555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.89826**	**.00076**	**-.00021**	**-.00051**
Stddev	.00034	.00127	.00024	.00065	.00023
%RSD	115.30	.14131	31.541	303.74	44.580
#1	-.00005	.89736	.00059	.00025	-.00035
#2	-.00054	.89915	.00093	-.00067	-.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-10-b Acquired: 7/27/2017 9:47:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02368
Stddev	.00061
%RSD	2.5593
#1	.02325
#2	.02411
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3209.0	2265.9	16051.	3176.1
Stddev	6.7	1.1	22.	21.7
%RSD	.20943	.04694	.13647	.68269
#1	3213.8	2266.7	16066.	3160.8
#2	3204.3	2265.2	16035.	3191.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.843%	94.248%	93.596%	102.21%
Range				

Sample Name: 480-120452-m-11-b Acquired: 7/27/2017 9:50:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.02414**	**.00341**	**.07838**	**.07588**
Stddev	.00047	.02503	.00027	.00005	.00013
%RSD	194.61	103.66	7.8853	.06940	.16791
#1	-.00009	.04184	.00322	.07842	.07579
#2	.00057	.00645	.00360	.07834	.07597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**95.976**	**.00057**	**.0176**	**.00099**
Stddev	.00013	.283	.00006	.0194	.00003
%RSD	517.80	.29448	10.962	110.2	3.5154
#1	.00011	95.776	.00052	.0312	.00096
#2	-.00006	96.176	.00061	.0039	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00104**	**.00245**	**3.3660**	**.01708**
Stddev	.00032	.00053	.00156	.0785	.00030
%RSD	145.80	50.611	63.752	2.3305	1.7481
#1	-.00001	-.00067	.00135	3.3105	.01687
#2	.00044	-.00142	.00355	3.4215	.01729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-11-b Acquired: 7/27/2017 9:50:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.323**	**2.7424**	**.00398**	**84.500**	**.00351**
Stddev	.009	.0020	.00035	.048	.00010
%RSD	.02635	.07326	8.7504	.05630	2.8655
#1	34.317	2.7410	.00374	84.467	.00358
#2	34.330	2.7438	.00423	84.534	.00343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**75.580**	**.00217**	**-.00177**	**15.884**
Stddev	.00017	.157	.00198	.00030	.008
%RSD	3.9653	.20773	91.477	16.885	.04829
#1	.00430	75.691	.00076	-.00198	15.889
#2	.00407	75.469	.00357	-.00156	15.878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.20488**	**.00091**	**.00133**	**.00148**
Stddev	.00074	.00023	.00018	.00054	.00018
%RSD	166.02	.11122	19.417	40.421	12.256
#1	.00008	.20472	.00104	.00095	.00136
#2	-.00097	.20504	.00079	.00171	.00161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-11-b Acquired: 7/27/2017 9:50:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01301
Stddev	.00065
%RSD	4.9828
#1	.01255
#2	.01347
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3299.1	2289.2	16341.	3196.6
Stddev	15.9	8.2	24.	2.0
%RSD	.48100	.35856	.14678	.06179
#1	3310.3	2295.0	16358.	3198.0
#2	3287.8	2283.4	16324.	3195.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.252%	95.215%	95.286%	102.87%
Range				

Sample Name: 480-120452-m-12-b Acquired: 7/27/2017 9:53:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.01032**	**.00372**	**.07037**	**.14983**
Stddev	.00020	.01612	.00015	.00020	.00073
%RSD	36.915	156.17	3.9195	.28359	.48739
#1	-.00069	.00108	.00382	.07052	.14932
#2	-.00040	-.02172	.00361	.07023	.15035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**120.43**	**.00146**	**.0251**	**.00004**
Stddev	.00006	.10	.00013	.0333	.00002
%RSD	84.238	.08593	9.0295	132.6	33.970
#1	-.00003	120.36	.00137	.0486	.00006
#2	-.00011	120.50	.00156	.0016	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00126**	**-.00225**	**1.0565**	**.01954**
Stddev	.00007	.00121	.00201	.0395	.00101
%RSD	155.79	96.561	89.204	3.7391	5.1785
#1	.00009	-.00040	-.00083	1.0844	.02026
#2	-.00000	-.00212	-.00367	1.0286	.01883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-12-b Acquired: 7/27/2017 9:53:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.452**	**.99219**	**.00054**	**37.133**	**.00686**
Stddev	.202	.00510	.00000	.069	.00024
%RSD	.53936	.51425	.64706	.18712	3.4560
#1	37.310	.98858	.00054	37.084	.00669
#2	37.595	.99580	.00054	37.182	.00702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00396**	**43.341**	**-.00023**	**-.00089**	**14.475**
Stddev	.00024	.011	.00040	.00060	.041
%RSD	5.9562	.02631	177.34	68.075	.28578
#1	.00379	43.333	-.00051	-.00046	14.446
#2	.00413	43.349	.00006	-.00132	14.505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.31953**	**.00083**	**.00241**	**-.00034**
Stddev	.00023	.00082	.00073	.00110	.00024
%RSD	59.420	.25579	88.388	45.720	70.541
#1	.00023	.31895	.00031	.00163	-.00052
#2	.00056	.32010	.00134	.00318	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-12-b Acquired: 7/27/2017 9:53:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02203
Stddev	.00023
%RSD	1.0520
#1	.02219
#2	.02187
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3500.4	2425.4	17109.	3259.7
Stddev	15.5	9.8	44.	4.1
%RSD	.44223	.40522	.25718	.12482
#1	3511.3	2432.4	17141.	3256.8
#2	3489.4	2418.5	17078.	3262.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.637%	100.88%	99.768%	104.90%
Range				

Sample Name: mb 480-368836/1-a Acquired: 7/27/2017 9:57:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.02944**	**.00245**	**.00227**	**.00007**
Stddev	.00003	.03367	.00014	.00014	.00002
%RSD	8.8482	114.38	5.6302	6.1334	23.995
#1	-.00032	.05324	.00255	.00237	.00006
#2	-.00028	.00563	.00236	.00218	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.03376**	**.00005**	**.0110**	**-.00002**
Stddev	.00002	.00110	.00003	.0125	.00003
%RSD	104.21	3.2451	60.964	114.3	134.34
#1	-.00000	.03298	.00007	.0021	-.00004
#2	-.00003	.03453	.00003	.0198	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**-.00037**	**-.00201**	**-.02605**	**-.00347**
Stddev	.00045	.00060	.00011	.00218	.00039
%RSD	55.573	161.30	5.3990	8.3847	11.259
#1	.00114	.00005	-.00208	-.02450	-.00374
#2	.00050	-.00080	-.00193	-.02759	-.00319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368836/1-a Acquired: 7/27/2017 9:57:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00105**	**-.00014**	**.00282**	**.00017**
Stddev	.00366	.00004	.00007	.00646	.00038
%RSD	7243.7	3.6833	48.988	228.60	228.66
#1	.00264	.00107	-.00019	-.00174	.00044
#2	-.00254	.00102	-.00009	.00739	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.01100**	**.00052**	**.00205**	**.00917**
Stddev	.00062	.00163	.00106	.00112	.00143
%RSD	68.909	14.793	206.38	54.837	15.644
#1	.00133	.01215	-.00024	.00126	.00816
#2	.00046	.00985	.00127	.00284	.01019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00024**	**.00080**	**.00284**	**-.00029**
Stddev	.00017	.00007	.00036	.00021	.00046
%RSD	35.714	31.105	44.812	7.3395	162.08
#1	-.00060	.00019	.00105	.00269	-.00061
#2	-.00036	.00029	.00054	.00298	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368836/1-a Acquired: 7/27/2017 9:57:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00017
Stddev	.00004
%RSD	24.337
#1	.00014
#2	.00020
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3803.2	2433.8	17328.	3253.0
Stddev	7.4	1.1	1.	2.9
%RSD	.19343	.04344	.00505	.08764
#1	3808.4	2434.6	17329.	3255.0
#2	3798.0	2433.1	17327.	3251.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.74%	101.23%	101.04%	104.69%
Range				

Sample Name: lcs 480-368836/2-a Acquired: 7/27/2017 10:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04928**	**10.425**	**.20287**	**.20353**	**.20040**
Stddev	.00061	.016	.00005	.00016	.00034
%RSD	1.2470	.14886	.02395	.08080	.16947
#1	.04971	10.436	.20291	.20341	.20064
#2	.04884	10.414	.20284	.20364	.20016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20126**	**10.037**	**.20325**	**.0261**	**.19108**
Stddev	.00089	.041	.00031	.0045	.00042
%RSD	.44199	.40702	.15443	17.06	.22027
#1	.20189	10.066	.20302	.0292	.19138
#2	.20063	10.008	.20347	.0229	.19078
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20055**	**.19964**	**10.300**	**9.6206**	**.19733**
Stddev	.00088	.00066	.035	.0443	.00203
%RSD	.44117	.32959	.34088	.46045	1.0272
#1	.20118	.19917	10.325	9.6519	.19590
#2	.19993	.20010	10.275	9.5893	.19877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368836/2-a Acquired: 7/27/2017 10:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.272**	**.20954**	**.20666**	**9.7565**	**.19585**
Stddev	.009	.00063	.00003	.0482	.00023
%RSD	.08998	.30075	.01482	.49400	.11972
#1	10.279	.20998	.20668	9.7906	.19569
#2	10.266	.20909	.20664	9.7225	.19602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20492**	**9.7981**	**.20084**	**.20310**	**10.144**
Stddev	.00003	.0338	.00076	.00116	.010
%RSD	.01320	.34493	.37771	.57260	.10143
#1	.20494	9.7742	.20138	.20228	10.151
#2	.20490	9.8220	.20030	.20393	10.136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19784**	**.19537**	**.19579**	**.19848**	**.21050**
Stddev	.00020	.00059	.00076	.00011	.00123
%RSD	.10106	.30178	.38789	.05659	.58621
#1	.19770	.19578	.19632	.19840	.21137
#2	.19798	.19495	.19525	.19856	.20962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368836/2-a Acquired: 7/27/2017 10:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20871
Stddev	.00146
%RSD	.70051
#1	.20974
#2	.20768
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3601.2	2417.4	17172.	3254.3
Stddev	8.3	2.2	10.	25.7
%RSD	.23057	.09006	.05770	.78847
#1	3595.3	2415.8	17165.	3236.2
#2	3607.1	2418.9	17179.	3272.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.334%	100.55%	100.13%	104.73%
Range				

Sample Name: lcsd 480-368836/3-a Acquired: 7/27/2017 10:03:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04893**	**10.291**	**.20077**	**.20289**	**.19875**
Stddev	.00056	.045	.00138	.00007	.00077
%RSD	1.1355	.43690	.68612	.03370	.38705
#1	.04854	10.323	.19980	.20294	.19930
#2	.04933	10.259	.20175	.20284	.19821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19845**	**9.9270**	**.20060**	**.0270**	**.18896**
Stddev	.00070	.0153	.00001	.0046	.00009
%RSD	.35491	.15440	.00714	16.98	.04643
#1	.19894	9.9379	.20061	.0238	.18890
#2	.19795	9.9162	.20059	.0303	.18902
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19960**	**.19547**	**10.202**	**9.4892**	**.19556**
Stddev	.00070	.00039	.027	.0565	.00187
%RSD	.34944	.19907	.26020	.59574	.95503
#1	.19910	.19519	10.220	9.5292	.19424
#2	.20009	.19574	10.183	9.4493	.19689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368836/3-a Acquired: 7/27/2017 10:03:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.137**	**.20739**	**.20501**	**9.6473**	**.19301**
Stddev	.011	.00017	.00008	.0083	.00050
%RSD	.10867	.08159	.04095	.08589	.25950
#1	10.129	.20751	.20507	9.6532	.19265
#2	10.145	.20728	.20495	9.6415	.19336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20350**	**9.7012**	**.19667**	**.20186**	**10.090**
Stddev	.00124	.0024	.00176	.00315	.025
%RSD	.60740	.02420	.89688	1.5605	.25223
#1	.20262	9.6996	.19791	.20409	10.072
#2	.20437	9.7029	.19542	.19963	10.108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19570**	**.19319**	**.19265**	**.19617**	**.20918**
Stddev	.00023	.00113	.00028	.00172	.00153
%RSD	.11807	.58263	.14327	.87590	.73273
#1	.19586	.19398	.19285	.19738	.20810
#2	.19553	.19239	.19246	.19495	.21026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368836/3-a Acquired: 7/27/2017 10:03:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20778**
Stddev	.00044
%RSD	.21393
#1	.20810
#2	.20747
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3608.6**	**2421.7**	**17138.**	**3240.1**
Stddev	10.6	8.0	31.	14.7
%RSD	.29307	.32958	.18280	.45240
#1	3616.1	2427.4	17160.	3229.8
#2	3601.2	2416.1	17116.	3250.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.533%	100.73%	99.934%	104.27%
Range				

Sample Name: 480-121597-a-1-a Acquired: 7/27/2017 10:07:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.04079**	**.00277**	**.55304**	**.02373**
Stddev	.00043	.02948	.00029	.00044	.00004
%RSD	62.509	72.260	10.317	.07898	.16382
#1	-.00098	.01995	.00257	.55273	.02376
#2	-.00038	.06164	.00297	.55334	.02371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**71.288**	**.00030**	**.0158**	**.00264**
Stddev	.00005	.422	.00008	.0264	.00004
%RSD	677.76	.59263	27.653	167.2	1.5419
#1	-.00003	71.586	.00024	.0344	.00261
#2	.00004	70.989	.00036	-.0029	.00267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**.00486**	**.04506**	**4.0111**	**.04434**
Stddev	.00018	.00005	.00252	.0507	.00009
%RSD	9.3548	1.0033	5.5912	1.2637	.20410
#1	.00209	.00482	.04684	4.0469	.04441
#2	.00183	.00489	.04328	3.9753	.04428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-a Acquired: 7/27/2017 10:07:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.909**	**.02160**	**.00116**	**198.84**	**.01896**
Stddev	.218	.00002	.00006	1.59	.00000
%RSD	.48607	.08396	5.5514	.79911	.01875
#1	45.063	.02161	.00121	199.96	.01896
#2	44.754	.02159	.00111	197.71	.01896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00422**	**54.408**	**.00018**	**.00050**	**11.459**
Stddev	.00024	.017	.00116	.00125	.015
%RSD	5.6816	.03122	629.56	248.67	.13235
#1	.00439	54.420	.00101	-.00038	11.470
#2	.00405	54.396	-.00064	.00139	11.448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00257**	**2.1393**	**.00121**	**.00145**	**-.00018**
Stddev	.00016	.0131	.00078	.00083	.00041
%RSD	6.3783	.61392	64.666	57.491	230.40
#1	.00245	2.1486	.00176	.00203	.00011
#2	.00268	2.1300	.00066	.00086	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-a Acquired: 7/27/2017 10:07:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00277
Stddev	.00012
%RSD	4.3928
#1	.00285
#2	.00268
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3197.3	2275.6	16134.	3169.3
Stddev	1.4	1.9	70.	16.3
%RSD	.04334	.08406	.43327	.51388
#1	3198.3	2277.0	16084.	3157.8
#2	3196.4	2274.3	16183.	3180.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.531%	94.650%	94.079%	101.99%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51530**	**25.000**	**.50138**	**.50010**	**.49011**
Stddev	.00494	.223	.00112	.00108	.00070
%RSD	.95829	.89180	.22307	.21496	.14257
#1	.51181	24.842	.50059	.49934	.48962
#2	.51880	25.157	.50217	.50086	.49061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50024**	**24.787**	**.49881**	**.0078**	**.49294**
Stddev	.00423	.206	.00007	.0107	.00027
%RSD	.84587	.83119	.01406	137.1	.05395
#1	.49725	24.642	.49876	.0002	.49275
#2	.50323	24.933	.49886	.0154	.49313
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51440**	**.49225**	**24.226**	**24.170**	**.49198**
Stddev	.00278	.00137	.241	.184	.00168
%RSD	.54072	.27737	.99583	.75993	.34108
#1	.51243	.49129	24.055	24.040	.49079
#2	.51637	.49322	24.396	24.300	.49317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.936**	**.51142**	**.51068**	**24.590**	**.49811**
Stddev	.069	.00313	.00038	.164	.00025
%RSD	.27805	.61176	.07356	.66501	.05048
#1	24.887	.50920	.51042	24.474	.49793
#2	24.985	.51363	.51095	24.706	.49829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49836**	**24.735**	**.49838**	**.50871**	**24.138**
Stddev	.00172	.026	.00161	.00283	.153
%RSD	.34551	.10429	.32388	.55721	.63329
#1	.49714	24.717	.49952	.50671	24.030
#2	.49958	24.753	.49724	.51072	24.246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50349**	**.48592**	**.49358**	**.49113**	**.52093**
Stddev	.00081	.00394	.00120	.00101	.00315
%RSD	.16058	.81144	.24372	.20585	.60405
#1	.50406	.48313	.49273	.49185	.51871
#2	.50291	.48870	.49443	.49042	.52316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51790
Stddev	.00218
%RSD	.42087
#1	.51635
#2	.51944
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3414.6	2376.2	16565.	3193.3
Stddev	5.0	3.5	26.	27.3
%RSD	.14704	.14547	.15446	.85482
#1	3411.0	2373.8	16583.	3212.6
#2	3418.1	2378.7	16547.	3174.0

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:13:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**-.00002**	**.00051**	**-.00040**	**-.00002**
Stddev	.00021	.00597	.00058	.00049	.00000
%RSD	35.965	31175.	114.45	123.67	16.185
#1	-.00073	.00420	.00092	-.00005	-.00003
#2	-.00044	-.00424	.00010	-.00074	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00303**	**.00024**	**.0121**	**-.00002**
Stddev	.00004	.00111	.00001	.0154	.00011
%RSD	310.34	36.595	4.8817	126.7	617.01
#1	-.00002	.00381	.00025	.0230	.00006
#2	.00005	.00224	.00024	.0013	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**-.00038**	**-.00059**	**-.03626**	**-.00125**
Stddev	.00054	.00015	.00122	.02130	.00114
%RSD	96.812	40.969	206.62	58.749	90.759
#1	.00018	-.00049	.00027	-.02120	-.00045
#2	.00094	-.00027	-.00145	-.05133	-.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:13:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00512**	**.00007**	**-.00003**	**.01467**	**.00028**
Stddev	.00099	.00003	.00008	.00886	.00017
%RSD	19.303	35.682	269.92	60.435	59.419
#1	-.00442	.00009	-.00008	.02093	.00040
#2	-.00582	.00006	.00003	.00840	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00677**	**.00122**	**-.00435**	**.01409**
Stddev	.00128	.00049	.00201	.00068	.01970
%RSD	4755.5	7.1992	164.84	15.703	139.86
#1	-.00088	.00711	.00264	-.00386	.00016
#2	.00093	.00642	-.00020	-.00483	.02802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00005**	**.00026**	**.00162**	**-.00001**
Stddev	.00052	.00008	.00082	.00024	.00056
%RSD	553.75	140.56	319.03	14.546	6138.9
#1	-.00046	.00000	.00084	.00145	.00039
#2	.00027	.00011	-.00032	.00179	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:13:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00005
Stddev	.00030
%RSD	574.60
#1	.00026
#2	-.00016
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3740.9	2405.2	17080.	3193.2
Stddev	5.7	1.7	84.	7.3
%RSD	.15183	.06884	.49031	.22929
#1	3744.9	2406.4	17140.	3188.0
#2	3736.9	2404.0	17021.	3198.4

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00518**	**.21015**	**.01682**	**.01893**	**.00204**
Stddev	.00031	.00763	.00271	.00038	.00002
%RSD	6.0349	3.6286	16.111	2.0213	.98241
#1	.00496	.20476	.01491	.01866	.00206
#2	.00540	.21554	.01874	.01920	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.50446**	**.00210**	**.0247**	**.00400**
Stddev	.00002	.00554	.00001	.0238	.00008
%RSD	1.1209	1.0983	.60942	96.51	2.0730
#1	.00201	.50054	.00211	.0078	.00406
#2	.00204	.50838	.00209	.0415	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	**.00906**	**.04676**	**.45347**	**.02720**
Stddev	.00005	.00101	.00086	.05348	.00124
%RSD	1.3057	11.098	1.8421	11.794	4.5649
#1	.00415	.00977	.04615	.41565	.02807
#2	.00407	.00835	.04737	.49129	.02632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20570**	**.00309**	**.01004**	**.98154**	**.00954**
Stddev	.00364	.00005	.00019	.00827	.00011
%RSD	1.7676	1.6047	1.8753	.84279	1.1159
#1	.20827	.00313	.01017	.98739	.00946
#2	.20313	.00306	.00990	.97569	.00961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01056**	**.19866**	**.01919**	**.02283**	**.51221**
Stddev	.00020	.00330	.00094	.00113	.00317
%RSD	1.8890	1.6636	4.8995	4.9469	.61863
#1	.01041	.19632	.01985	.02363	.51445
#2	.01070	.20100	.01852	.02203	.50997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00887**	**.00491**	**.00542**	**.02151**	**.00471**
Stddev	.00093	.00000	.00079	.00074	.00036
%RSD	10.523	.09635	14.557	3.4268	7.6517
#1	.00821	.00491	.00598	.02099	.00445
#2	.00953	.00491	.00486	.02203	.00496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01191
Stddev	.00020
%RSD	1.6409
#1	.01205
#2	.01177
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3765.2	2428.7	17276.	3186.6
Stddev	13.1	9.7	27.	9.8
%RSD	.34718	.39785	.15688	.30648
#1	3756.0	2421.9	17295.	3193.5
#2	3774.5	2435.6	17257.	3179.7

Sample Name: 480-121597-a-1-aSD@5 Acquired: 7/27/2017 10:20:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.03693**	**.00044**	**.11166**	**.00498**
Stddev	.00100	.03194	.00001	.00013	.00001
%RSD	199.21	86.469	1.6110	.11947	.29197
#1	.00021	.05952	.00044	.11176	.00497
#2	-.00121	.01435	.00043	.11157	.00499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**14.034**	**.00022**	**.0360**	**.00062**
Stddev	.00001	.107	.00013	.0371	.00012
%RSD	1064.4	.76502	56.710	102.9	20.251
#1	.00001	14.110	.00031	.0098	.00071
#2	-.00001	13.958	.00013	.0622	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00081**	**.00764**	**.76171**	**.00930**
Stddev	.00064	.00016	.00051	.00289	.00083
%RSD	253.13	20.083	6.6401	.37907	8.9715
#1	-.00020	.00069	.00728	.75967	.00871
#2	.00070	.00092	.00800	.76375	.00989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-aSD@5 Acquired: 7/27/2017 10:20:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7439**	**.00423**	**-.00003**	**39.122**	**.00377**
Stddev	.0399	.00004	.00004	.236	.00019
%RSD	.45641	.90036	144.26	.60376	5.1623
#1	8.7721	.00420	.00000	39.289	.00363
#2	8.7157	.00426	-.00006	38.955	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**10.042**	**.00085**	**-.00070**	**2.2248**
Stddev	.00044	.011	.00022	.00451	.0079
%RSD	61.131	.10885	25.808	646.25	.35558
#1	.00104	10.035	.00069	-.00389	2.2304
#2	.00041	10.050	.00100	.00249	2.2192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.41035**	**.00030**	**.00252**	**-.00025**
Stddev	.00040	.00258	.00052	.00111	.00023
%RSD	75.467	.62858	171.76	44.225	93.630
#1	.00024	.41217	-.00006	.00331	-.00008
#2	.00080	.40853	.00067	.00173	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-aSD@5 Acquired: 7/27/2017 10:20:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00062
Stddev	.00008
%RSD	13.189
#1	.00068
#2	.00057
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3523.1	2363.6	16732.	3172.3
Stddev	8.0	3.7	6.	18.5
%RSD	.22830	.15653	.03611	.58219
#1	3517.4	2361.0	16728.	3159.3
#2	3528.8	2366.2	16736.	3185.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.245%	98.312%	97.567%	102.09%
Range				

Sample Name: 480-121597-a-1-a PDS Acquired: 7/27/2017 10:23:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10397**	**9.7817**	**.41746**	**.72229**	**.21215**
Stddev	.00089	.0521	.00166	.00079	.00086
%RSD	.85637	.53277	.39803	.10919	.40678
#1	.10334	9.7449	.41629	.72173	.21276
#2	.10460	9.8186	.41864	.72284	.21154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40316**	**88.750**	**.41538**	**.0451**	**.39892**
Stddev	.00041	.029	.00056	.0308	.00022
%RSD	.10112	.03290	.13420	68.30	.05442
#1	.40344	88.729	.41499	.0233	.39908
#2	.40287	88.771	.41578	.0669	.39877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40168**	**.39601**	**20.221**	**13.188**	**.23466**
Stddev	.00243	.00063	.056	.039	.00039
%RSD	.60419	.15842	.27907	.29768	.16813
#1	.40340	.39646	20.261	13.215	.23494
#2	.39996	.39557	20.181	13.160	.23438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-a PDS Acquired: 7/27/2017 10:23:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**63.876**	**.42218**	**.40735**	**198.92**	**.41737**
Stddev	.372	.00220	.00031	.57	.00013
%RSD	.58215	.52136	.07514	.28784	.03190
#1	64.139	.42373	.40757	199.32	.41746
#2	63.613	.42062	.40714	198.51	.41727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41813**	**62.439**	**.41608**	**.42599**	**11.258**
Stddev	.00079	.011	.00018	.00114	.030
%RSD	.18879	.01752	.04207	.26785	.26663
#1	.41757	62.431	.41596	.42519	11.279
#2	.41869	62.447	.41621	.42680	11.237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00264**	**2.2437**	**.39068**	**.39010**	**.42469**
Stddev	.00034	.0085	.00091	.00195	.00361
%RSD	12.891	.37835	.23320	.50049	.84906
#1	.00240	2.2497	.39132	.39148	.42724
#2	.00288	2.2377	.39003	.38872	.42214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-a PDS Acquired: 7/27/2017 10:23:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.42179**
Stddev	.00081
%RSD	.19166
#1	.42236
#2	.42121
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3143.1**	**2279.9**	**16129.**	**3207.0**
Stddev	.4	.8	46.	.5
%RSD	.01136	.03503	.28430	.01532
#1	3143.3	2280.5	16097.	3206.6
#2	3142.8	2279.3	16162.	3207.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.080%	94.829%	94.052%	103.21%
Range				

Sample Name: 480-121597-a-1-b ms Acquired: 7/27/2017 10:26:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05208**	**10.628**	**.21533**	**.77066**	**.22191**
Stddev	.00113	.090	.00108	.00007	.00059
%RSD	2.1623	.84466	.50375	.00869	.26436
#1	.05129	10.564	.21610	.77062	.22150
#2	.05288	10.691	.21457	.77071	.22233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20487**	**83.634**	**.21086**	**.0354**	**.20462**
Stddev	.00099	.439	.00035	.0069	.00000
%RSD	.48214	.52477	.16385	19.43	.00161
#1	.20418	83.324	.21111	.0305	.20462
#2	.20557	83.944	.21062	.0402	.20463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20233**	**.20557**	**10.390**	**13.966**	**.24740**
Stddev	.00029	.00146	.078	.072	.00171
%RSD	.14497	.71078	.74902	.51595	.69299
#1	.20254	.20660	10.335	13.915	.24619
#2	.20213	.20453	10.445	14.017	.24862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-b ms Acquired: 7/27/2017 10:26:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.071**	**.22822**	**.21218**	**212.56**	**.22396**
Stddev	.150	.00053	.00079	2.54	.00042
%RSD	.26810	.23272	.37097	1.1939	.18626
#1	55.965	.22784	.21274	210.77	.22426
#2	56.177	.22860	.21163	214.36	.22367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21437**	**66.179**	**.20840**	**.21375**	**22.292**
Stddev	.00163	.002	.00135	.00372	.147
%RSD	.76160	.00281	.64646	1.7408	.65909
#1	.21552	66.177	.20935	.21638	22.188
#2	.21321	66.180	.20745	.21112	22.396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21468**	**2.3983**	**.19767**	**.19786**	**.21486**
Stddev	.00079	.0192	.00032	.00023	.00062
%RSD	.36817	.80019	.15958	.11572	.28853
#1	.21524	2.3848	.19789	.19770	.21442
#2	.21412	2.4119	.19744	.19802	.21529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-b ms Acquired: 7/27/2017 10:26:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21298**
Stddev	.00150
%RSD	.70431
#1	.21192
#2	.21404
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3145.4**	**2276.6**	**16194.**	**3172.7**
Stddev	3.5	1.3	41.	16.8
%RSD	.11046	.05856	.25498	.52928
#1	3147.8	2275.7	16165.	3184.5
#2	3142.9	2277.6	16223.	3160.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.140%	94.692%	94.429%	102.10%
Range				

Sample Name: 480-121597-a-1-c msd Acquired: 7/27/2017 10:30:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05134**	**10.419**	**.21026**	**.77149**	**.21885**
Stddev	.00134	.113	.00161	.00039	.00080
%RSD	2.6098	1.0884	.76522	.05028	.36652
#1	.05229	10.338	.21140	.77176	.21828
#2	.05039	10.499	.20913	.77121	.21942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20108**	**84.002**	**.20685**	**.0279**	**.20084**
Stddev	.00174	.694	.00013	.0697	.00027
%RSD	.86618	.82651	.06506	249.6	.13389
#1	.19985	83.511	.20695	.0772	.20103
#2	.20231	84.492	.20676	-.0213	.20065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19988**	**.20207**	**10.197**	**13.839**	**.24600**
Stddev	.00024	.00110	.088	.082	.00162
%RSD	.12023	.54207	.86709	.58912	.65675
#1	.19971	.20285	10.135	13.781	.24486
#2	.20005	.20130	10.260	13.897	.24714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-c msd Acquired: 7/27/2017 10:30:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.820**	**.22618**	**.20753**	**214.95**	**.21997**
Stddev	.357	.00138	.00023	1.41	.00016
%RSD	.62808	.61067	.10970	.65462	.07347
#1	56.567	.22521	.20737	213.96	.22008
#2	57.072	.22716	.20769	215.95	.21985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21256**	**66.577**	**.20442**	**.20546**	**22.180**
Stddev	.00143	.066	.00065	.00031	.274
%RSD	.67390	.09987	.31838	.14937	1.2349
#1	.21357	66.624	.20396	.20524	21.987
#2	.21154	66.530	.20488	.20568	22.374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21108**	**2.4242**	**.19588**	**.19196**	**.21304**
Stddev	.00027	.0113	.00102	.00220	.00198
%RSD	.12813	.46683	.52224	1.1459	.93153
#1	.21127	2.4162	.19516	.19352	.21163
#2	.21089	2.4322	.19661	.19041	.21444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-c msd Acquired: 7/27/2017 10:30:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20973**
Stddev	.00005
%RSD	.02186
#1	.20976
#2	.20970
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3147.4**	**2281.8**	**16126.**	**3200.0**
Stddev	3.1	2.9	93.	34.9
%RSD	.09839	.12889	.57778	1.0903
#1	3145.2	2279.7	16192.	3224.6
#2	3149.6	2283.9	16061.	3175.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.194%	94.908%	94.036%	102.98%
Range				

Sample Name: BLANK Acquired: 7/27/2017 10:33:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.00281**	**.00181**	**.00020**	**.00012**
Stddev	.00052	.02002	.00118	.00001	.00000
%RSD	82.940	711.38	65.076	2.9527	3.9147
#1	-.00099	-.01134	.00097	.00021	.00012
#2	-.00026	.01697	.00264	.00020	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00130**	**.00004**	**.0051**	**.00020**
Stddev	.00001	.00112	.00003	.0100	.00009
%RSD	24.273	86.816	63.578	195.9	44.469
#1	-.00003	.00050	.00002	-.0020	.00026
#2	-.00002	.00209	.00006	.0122	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**-.00035**	**-.00334**	**.00491**	**-.00164**
Stddev	.00019	.00076	.00215	.02286	.00080
%RSD	36.647	217.16	64.312	465.14	48.950
#1	.00038	-.00089	-.00486	.02108	-.00108
#2	.00065	.00019	-.00182	-.01125	-.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 10:33:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.00004**	**-.00018**	**.01920**	**-.00002**
Stddev	.00478	.00001	.00009	.01440	.00002
%RSD	242.03	30.415	49.753	75.009	112.70
#1	-.00140	.00005	-.00012	.02938	-.00000
#2	.00535	.00003	-.00025	.00902	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.01143**	**.00095**	**-.00133**	**.01422**
Stddev	.00007	.00070	.00042	.00353	.00341
%RSD	5.7621	6.1558	44.403	265.45	23.981
#1	.00116	.01192	.00065	.00117	.01663
#2	.00126	.01093	.00125	-.00383	.01181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00024**	**.00070**	**.00204**	**-.00056**
Stddev	.00019	.00003	.00040	.00042	.00033
%RSD	78.987	12.115	57.120	20.567	58.855
#1	-.00038	.00026	.00041	.00234	-.00080
#2	-.00011	.00022	.00098	.00174	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 10:33:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00214
Stddev	.00025
%RSD	11.650
#1	.00232
#2	.00197
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3750.8	2405.2	17185.	3182.3
Stddev	6.4	4.7	27.	5.0
%RSD	.16940	.19337	.15426	.15791
#1	3746.3	2401.9	17167.	3185.9
#2	3755.3	2408.5	17204.	3178.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.34%	100.04%	100.21%	102.41%
Range				

Sample Name: mb 480-368425/1-a Acquired: 7/27/2017 10:36:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.04044**	**.00196**	**.00078**	**.00046**
Stddev	.00042	.00296	.00052	.00011	.00003
%RSD	63.127	7.3259	26.384	13.774	6.2928
#1	-.00097	.04253	.00159	.00070	.00044
#2	-.00037	.03834	.00232	.00085	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.08865**	**.00040**	**.0061**	**.00005**
Stddev	.00005	.00118	.00001	.0100	.00007
%RSD	198.13	1.3343	1.3001	164.0	141.70
#1	-.00001	.08781	.00040	-.0010	-.00000
#2	.00006	.08949	.00039	.0131	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00097**	**.02613**	**.07423**	**-.00292**
Stddev	.00003	.00058	.00190	.02100	.00079
%RSD	2.2839	59.657	7.2656	28.295	26.971
#1	.00126	.00138	.02479	.05938	-.00348
#2	.00122	.00056	.02748	.08909	-.00236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368425/1-a Acquired: 7/27/2017 10:36:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00738**	**.00085**	**.00001**	**.08277**	**.00079**
Stddev	.00192	.00008	.00022	.01133	.00004
%RSD	25.939	9.8324	1471.2	13.690	5.1045
#1	.00874	.00079	.00017	.09078	.00082
#2	.00603	.00091	-.00014	.07475	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**.02987**	**.00184**	**-.00161**	**.20798**
Stddev	.00012	.00093	.00111	.00012	.00061
%RSD	11.144	3.1032	60.131	7.1630	.29442
#1	.00121	.03053	.00262	-.00153	.20842
#2	.00103	.02922	.00106	-.00169	.20755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04810**	**.00036**	**.00110**	**.00026**	**.00016**
Stddev	.00027	.00005	.00056	.00001	.00028
%RSD	.56725	14.029	50.623	3.8217	171.40
#1	.04791	.00032	.00071	.00026	.00036
#2	.04830	.00039	.00150	.00027	-.00003
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368425/1-a Acquired: 7/27/2017 10:36:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F .01097
Stddev	.00038
%RSD	3.4671
#1	.01124
#2	.01070
Check ?	Chk Fail
High Limit	.01000
Low Limit	-.00300

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3805.1	2416.6	17442.	3256.4
Stddev	3.4	1.9	30.	14.5
%RSD	.08910	.07959	.16968	.44460
#1	3802.7	2415.3	17421.	3266.7
#2	3807.5	2418.0	17463.	3246.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.79%	100.52%	101.71%	104.80%
Range				

Sample Name: mb 480-368588/1-a Acquired: 7/27/2017 10:40:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	F **.39146**	**.00190**	**.00080**	**.00186**
Stddev	.00076	.00174	.00057	.00007	.00003
%RSD	146.17	.44444	29.845	8.2163	1.3620
#1	-.00105	.39269	.00230	.00085	.00188
#2	.00002	.39023	.00150	.00075	.00184
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000			
Low Limit		-.04000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.11871**	**.00012**	**.0154**	**.00005**
Stddev	.00001	.00352	.00001	.0009	.00007
%RSD	25.603	2.9672	6.7649	5.821	129.18
#1	.00003	.11622	.00012	.0147	.00000
#2	.00004	.12120	.00013	.0160	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00466**	F **.14789**	F **.07607**	**.04544**	**-.00158**
Stddev	.00033	.00096	.00188	.02864	.00117
%RSD	7.0594	.64655	2.4657	63.040	73.836
#1	.00489	.14722	.07475	.02518	-.00076
#2	.00443	.14857	.07740	.06569	-.00241
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	.00400	.01000	.05000		
Low Limit	-.00300	-.00400	-.04000		

Sample Name: mb 480-368588/1-a Acquired: 7/27/2017 10:40:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00107**	**.00024**	**.05424**	**.00106**
Stddev	.00022	.00005	.00013	.00329	.00005
%RSD	47.672	4.7910	53.301	6.0622	5.1358
#1	-.00031	.00104	.00032	.05656	.00110
#2	-.00063	.00111	.00015	.05191	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00346**	**.03130**	**.00309**	**-.00022**	**.28592**
Stddev	.00151	.00330	.00055	.00339	.00541
%RSD	43.742	10.534	17.634	1563.2	1.8918
#1	.00453	.03363	.00348	-.00261	.28975
#2	.00239	.02896	.00271	.00218	.28210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.08941**	**.00030**	**.00191**	**.00081**	**.00018**
Stddev	.00068	.00009	.00025	.00138	.00011
%RSD	.75677	30.773	13.078	169.99	58.499
#1	.08893	.00023	.00173	.00179	.00011
#2	.08988	.00037	.00208	-.00016	.00026
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368588/1-a Acquired: 7/27/2017 10:40:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00296
Stddev	.00025
%RSD	8.6064
#1	.00314
#2	.00278
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3795.7	2412.1	17395.	3235.8
Stddev	1.2	3.6	19.	6.4
%RSD	.03183	.15127	.10915	.19801
#1	3794.8	2409.6	17382.	3240.4
#2	3796.5	2414.7	17409.	3231.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.54%	100.33%	101.43%	104.13%
Range				

Sample Name: 480-121501-c-6-a Acquired: 7/27/2017 10:43:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00218**	**41.463**	**.02952**	**.06351**	**.15550**
Stddev	.00002	.024	.00102	.00057	.00016
%RSD	1.0416	.05736	3.4654	.89511	.10463
#1	-.00217	41.479	.03025	.06311	.15538
#2	-.00220	41.446	.02880	.06391	.15561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**484.87**	**.00108**	**.3042**	**.02739**
Stddev	.00004	.20	.00001	.0128	.00015
%RSD	2.4427	.04066	.67613	4.196	.53767
#1	.00186	484.74	.00108	.2951	.02729
#2	.00180	485.01	.00109	.3132	.02749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06119**	**.06137**	**79.265**	**10.192**	**.05558**
Stddev	.00053	.00038	.210	.043	.00139
%RSD	.86599	.61890	.26467	.41841	2.4958
#1	.06082	.06164	79.413	10.162	.05657
#2	.06157	.06110	79.116	10.222	.05460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-6-a Acquired: 7/27/2017 10:43:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**171.50**	**2.6754**	**.00291**	**1.5299**	**.07045**
Stddev	.08	.0001	.00007	.0053	.00018
%RSD	.04419	.00414	2.4148	.34467	.25326
#1	171.55	2.6753	.00296	1.5337	.07032
#2	171.45	2.6755	.00286	1.5262	.07058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04483**	**1.2013**	**-.00014**	**-.00070**	**3.5806**
Stddev	.00033	.0014	.00025	.00371	.0832
%RSD	.72759	.11590	184.38	533.61	2.3221
#1	.04506	1.2023	.00004	-.00332	3.6394
#2	.04460	1.2003	-.00031	.00193	3.5219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05221**	**.52702**	**1.4087**	**-.00274**	**.11784**
Stddev	.00084	.00006	.0005	.00073	.00053
%RSD	1.5994	.01135	.03790	26.583	.45106
#1	.05280	.52706	1.4083	-.00325	.11822
#2	.05162	.52698	1.4091	-.00222	.11747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-6-a Acquired: 7/27/2017 10:43:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.26433**
Stddev	.00025
%RSD	.09328
#1	.26415
#2	.26450
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2905.3**	**2379.9**	**16834.**	**3439.7**
Stddev	4.7	1.4	36.	8.1
%RSD	.16285	.06024	.21260	.23636
#1	2902.0	2378.9	16860.	3445.4
#2	2908.7	2380.9	16809.	3433.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.719%	98.988%	98.163%	110.70%
Range				

Sample Name: BLANK Acquired: 7/27/2017 10:46:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**-.00158**	**.00223**	**-.00130**	**-.00000**
Stddev	.00014	.01729	.00209	.00018	.00001
%RSD	21.986	1095.1	93.480	13.763	1386.3
#1	-.00052	-.01380	.00371	-.00143	-.00001
#2	-.00071	.01065	.00076	-.00117	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.02787**	**.00002**	**.0256**	**.00010**
Stddev	.00000	.00229	.00008	.0323	.00019
%RSD	4.4993	8.2206	402.28	126.3	182.21
#1	.00005	.02949	.00007	.0027	.00024
#2	.00006	.02625	-.00004	.0485	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00033**	**.00314**	**.01176**	**-.00067**
Stddev	.00011	.00059	.00341	.04431	.00064
%RSD	156.37	180.45	108.71	376.90	95.577
#1	.00015	.00009	.00555	-.01957	-.00113
#2	-.00001	-.00074	.00073	.04309	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 10:46:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00684**	**.00010**	**-.00012**	**.00201**	**.00017**
Stddev	.00532	.00004	.00001	.00391	.00022
%RSD	77.705	38.112	9.2056	193.96	125.36
#1	.01061	.00013	-.00013	-.00075	.00002
#2	.00308	.00008	-.00011	.00478	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00080**	**-.00041**	**-.00220**	**.00388**
Stddev	.00139	.00068	.00003	.00143	.00163
%RSD	292.64	84.617	8.1441	65.033	42.061
#1	.00146	.00032	-.00044	-.00322	.00503
#2	-.00051	.00128	-.00039	-.00119	.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00017**	**.00070**	**.00153**	**-.00052**
Stddev	.00022	.00011	.00055	.00105	.00040
%RSD	70.927	63.959	78.815	68.794	77.313
#1	-.00015	.00009	.00031	.00227	-.00080
#2	-.00046	.00024	.00108	.00079	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 10:46:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00005
Stddev	.00025
%RSD	496.05
#1	.00023
#2	-.00013
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3764.7	2419.2	17156.	3201.7
Stddev	.9	.9	40.	23.9
%RSD	.02428	.03885	.23383	.74518
#1	3764.1	2418.5	17127.	3218.6
#2	3765.3	2419.9	17184.	3184.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.71%	100.62%	100.04%	103.04%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:50:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51310**	**24.964**	**.49871**	**.49889**	**.48991**
Stddev	.00436	.018	.00031	.00068	.00289
%RSD	.85071	.07205	.06302	.13554	.59078
#1	.51618	24.951	.49894	.49841	.49196
#2	.51001	24.976	.49849	.49936	.48787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49440**	**24.741**	**.49789**	**.0138**	**.49277**
Stddev	.00072	.001	.00044	.0134	.00076
%RSD	.14464	.00342	.08809	97.28	.15411
#1	.49390	24.741	.49758	.0232	.49331
#2	.49491	24.742	.49820	.0043	.49224
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50932**	**.49015**	**24.055**	**23.934**	**.48922**
Stddev	.00131	.00009	.064	.077	.00081
%RSD	.25782	.01823	.26433	.32091	.16487
#1	.51024	.49021	24.010	23.988	.48865
#2	.50839	.49009	24.100	23.879	.48979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:50:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.945**	**.51039**	**.50963**	**24.267**	**.49728**
Stddev	.121	.00228	.00153	.013	.00143
%RSD	.48610	.44597	.29944	.05275	.28696
#1	25.031	.51200	.51071	24.276	.49829
#2	24.859	.50878	.50855	24.258	.49627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49824**	**24.677**	**.49595**	**.50434**	**24.151**
Stddev	.00201	.001	.00069	.00571	.079
%RSD	.40249	.00280	.13840	1.1313	.32588
#1	.49965	24.676	.49643	.50030	24.096
#2	.49682	24.677	.49546	.50837	24.207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50475**	**.47856**	**.49257**	**.49229**	**.51715**
Stddev	.00085	.00027	.00111	.00141	.00434
%RSD	.16799	.05562	.22564	.28645	.83992
#1	.50535	.47837	.49336	.49130	.52023
#2	.50415	.47874	.49179	.49329	.51408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:50:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51503
Stddev	.00126
%RSD	.24432
#1	.51592
#2	.51414
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3415.9	2378.2	16631.	3213.8
Stddev	.7	4.0	5.	.6
%RSD	.02000	.16899	.03031	.01751
#1	3416.4	2381.0	16635.	3213.4
#2	3415.4	2375.4	16628.	3214.2

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:53:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00617**	**.00284**	**-.00056**	**-.00002**
Stddev	.00037	.00075	.00081	.00006	.00004
%RSD	114.25	12.243	28.556	10.301	231.71
#1	.00006	-.00670	.00227	-.00052	.00001
#2	.00058	-.00563	.00341	-.00060	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00511**	**.00008**	**.0001**	**.00009**
Stddev	.00006	.00058	.00003	.0036	.00001
%RSD	249.70	11.336	42.305	2968.	6.6672
#1	.00007	.00552	.00010	.0026	.00009
#2	-.00002	.00470	.00006	-.0024	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00079**	**-.00170**	**.04999**	**.00027**
Stddev	.00001	.00012	.00094	.00024	.00005
%RSD	2.1379	15.677	55.165	.48767	18.788
#1	.00046	-.00070	-.00103	.04982	.00031
#2	.00048	-.00088	-.00236	.05016	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:53:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00170**	**.00012**	**.00004**	**.01216**	**.00012**
Stddev	.00132	.00003	.00015	.00513	.00024
%RSD	77.896	25.502	361.39	42.202	198.84
#1	-.00076	.00010	-.00006	.01579	-.00005
#2	-.00263	.00014	.00015	.00853	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00445**	**.00071**	**.00060**	**.01236**
Stddev	.00093	.00230	.00107	.00030	.00512
%RSD	1282.6	51.789	151.18	49.412	41.459
#1	.00059	.00608	-.00005	.00039	.00874
#2	-.00073	.00282	.00146	.00081	.01598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00009**	**.00072**	**.00222**	**.00025**
Stddev	.00051	.00006	.00054	.00080	.00028
%RSD	161.26	71.940	74.528	35.892	110.72
#1	-.00067	.00013	.00110	.00279	.00005
#2	.00004	.00004	.00034	.00166	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:53:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00005
Stddev	.00007
%RSD	126.27
#1	.00001
#2	.00010
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3768.9	2420.8	17170.	3219.7
Stddev	7.4	2.4	47.	19.4
%RSD	.19518	.10052	.27627	.60110
#1	3763.7	2419.1	17137.	3206.0
#2	3774.1	2422.6	17204.	3233.4

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:56:58 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00533**	**.19031**	**.01641**	**.01836**	**.00204**
Stddev	.00001	.00946	.00076	.00021	.00002
%RSD	.24168	4.9721	4.6290	1.1518	.99525
#1	.00532	.18362	.01588	.01851	.00205
#2	.00534	.19700	.01695	.01821	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.49799**	**.00217**	**.0077**	**.00406**
Stddev	.00001	.00554	.00004	.0048	.00007
%RSD	.55728	1.1121	1.9255	62.37	1.6558
#1	.00212	.49407	.00220	.0112	.00401
#2	.00214	.50190	.00214	.0043	.00411
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00415**	**.00885**	**.04854**	**.46661**	**.02653**
Stddev	.00024	.00007	.00077	.00173	.00060
%RSD	5.7005	.82901	1.5921	.37017	2.2682
#1	.00432	.00890	.04799	.46783	.02611
#2	.00398	.00880	.04908	.46539	.02696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:56:58 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20049**	**.00311**	**.00995**	**.96853**	**.00946**
Stddev	.00033	.00002	.00010	.00738	.00013
%RSD	.16398	.77857	.96092	.76209	1.3518
#1	.20072	.00309	.00988	.96331	.00937
#2	.20026	.00312	.01002	.97375	.00955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01048**	**.19347**	**.02079**	**.02632**	**.51447**
Stddev	.00033	.00263	.00007	.00367	.00308
%RSD	3.1653	1.3581	.31951	13.931	.59871
#1	.01025	.19161	.02084	.02373	.51229
#2	.01072	.19533	.02074	.02892	.51665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00964**	**.00495**	**.00475**	**.02177**	**.00487**
Stddev	.00026	.00017	.00036	.00071	.00006
%RSD	2.6760	3.5175	7.5558	3.2811	1.2980
#1	.00946	.00483	.00500	.02227	.00482
#2	.00982	.00508	.00449	.02126	.00491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:56:58 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01136
Stddev	.00053
%RSD	4.7072
#1	.01174
#2	.01098
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3778.5	2438.9	17318.	3223.0
Stddev	14.6	10.4	11.	22.8
%RSD	.38716	.42642	.06082	.70690
#1	3788.9	2446.3	17325.	3239.1
#2	3768.2	2431.6	17310.	3206.9

Sample Name: 480-121506-c-16-b@5 Acquired: 7/27/2017 11:00:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**14.563**	**.00676**	**.06115**	**.08301**
Stddev	.00104	.003	.00127	.00019	.00023
%RSD	163.30	.02093	18.733	.31223	.27820
#1	-.00137	14.566	.00586	.06129	.08318
#2	.00010	14.561	.00765	.06102	.08285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**231.35**	**.00083**	**.0578**	**.00708**
Stddev	.00001	.56	.00005	.0025	.00002
%RSD	1.4000	.24061	5.5069	4.363	.31130
#1	.00070	231.75	.00080	.0595	.00709
#2	.00069	230.96	.00087	.0560	.00706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28553**	**.21404**	**15.885**	**4.7828**	**.04266**
Stddev	.00064	.00138	.022	.0006	.00062
%RSD	.22312	.64448	.13843	.01153	1.4622
#1	.28598	.21502	15.900	4.7832	.04222
#2	.28508	.21307	15.869	4.7824	.04310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-16-b@5 Acquired: 7/27/2017 11:00:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.703**	**.37446**	**.00065**	**.51397**	**.33956**
Stddev	.294	.00092	.00002	.00122	.00004
%RSD	.42786	.24621	2.7857	.23751	.01244
#1	68.911	.37511	.00066	.51483	.33959
#2	68.495	.37381	.00063	.51311	.33953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07887**	**.76850**	**-.00089**	**-.00023**	**.57106**
Stddev	.00120	.00258	.00296	.00202	.01080
%RSD	1.5224	.33523	333.69	876.20	1.8907
#1	.07972	.76668	.00121	-.00166	.56343
#2	.07802	.77032	-.00298	.00120	.57870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03399**	**.27960**	**.16998**	**.00110**	**.02681**
Stddev	.00003	.00051	.00124	.00034	.00025
%RSD	.09977	.18207	.72952	31.144	.93947
#1	.03397	.27996	.17086	.00134	.02699
#2	.03402	.27924	.16910	.00085	.02664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-16-b@5 Acquired: 7/27/2017 11:00:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.09743**
Stddev	.00111
%RSD	1.1410
#1	.09822
#2	.09664
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3200.0**	**2317.1**	**16420.**	**3192.0**
Stddev	6.0	5.6	48.	2.8
%RSD	.18663	.23992	.29460	.08623
#1	3204.3	2321.1	16386.	3190.0
#2	3195.8	2313.2	16454.	3193.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.603%	96.377%	95.748%	102.72%
Range				

Sample Name: 480-121506-c-20-b@5 Acquired: 7/27/2017 11:03:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**8.6042**	**.01090**	**.04600**	**.27523**
Stddev	.00068	.0766	.00115	.00025	.00097
%RSD	87.445	.89071	10.583	.53535	.35111
#1	-.00030	8.5500	.01009	.04582	.27592
#2	-.00125	8.6584	.01172	.04617	.27455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**368.13**	**.00098**	**.0537**	**.00748**
Stddev	.00003	3.76	.00004	.0114	.00017
%RSD	7.0807	1.0220	3.6585	21.29	2.2246
#1	.00040	365.47	.00096	.0618	.00736
#2	.00036	370.79	.00101	.0456	.00760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95409**	**.42166**	**35.150**	**2.9648**	**.01282**
Stddev	.00332	.00050	.437	.0511	.00089
%RSD	.34812	.11835	1.2440	1.7225	6.9271
#1	.95643	.42202	34.841	2.9287	.01345
#2	.95174	.42131	35.460	3.0009	.01220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-20-b@5 Acquired: 7/27/2017 11:03:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.336**	**.55440**	**.00156**	**.33141**	**.81200**
Stddev	.281	.00211	.00006	.00492	.00149
%RSD	.47295	.38012	4.0872	1.4860	.18291
#1	59.534	.55589	.00160	.33489	.81095
#2	59.137	.55291	.00151	.32793	.81305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14841**	**2.4305**	**.00093**	**-.00294**	**.57079**
Stddev	.00151	.0010	.00058	.00169	.00076
%RSD	1.0176	.03918	62.632	57.468	.13258
#1	.14734	2.4299	.00052	-.00175	.57025
#2	.14948	2.4312	.00134	-.00414	.57132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04308**	**4.8697**	**.11639**	**.00162**	**.02894**
Stddev	.00035	.0420	.00214	.00018	.00034
%RSD	.81986	.86231	1.8384	11.113	1.1850
#1	.04284	4.8401	.11790	.00149	.02918
#2	.04333	4.8994	.11488	.00175	.02870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-20-b@5 Acquired: 7/27/2017 11:03:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.25404**
Stddev	.00270
%RSD	1.0611
#1	.25595
#2	.25214
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3102.9**	**2290.2**	**16115.**	**3181.8**
Stddev	4.0	.6	16.	20.1
%RSD	.12753	.02512	.09860	.63025
#1	3105.7	2290.6	16104.	3195.9
#2	3100.1	2289.8	16126.	3167.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.004%	95.257%	93.970%	102.39%
Range				

Sample Name: mb 480-368710/1-a Acquired: 7/27/2017 11:07:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.04638**	**.00109**	**.00285**	**.00009**
Stddev	.00038	.00000	.00033	.00001	.00002
%RSD	88.181	.00930	30.628	.21761	16.753
#1	-.00016	.04637	.00133	.00284	.00008
#2	-.00070	.04638	.00085	.00285	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.08705**	**-.00000**	**.0343**	**.00012**
Stddev	.00004	.00165	.00003	.0184	.00003
%RSD	52.368	1.8970	5190.1	53.68	23.346
#1	-.00009	.08588	-.00002	.0473	.00010
#2	-.00004	.08822	.00002	.0213	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00027**	**.00415**	**-.03058**	**-.00116**
Stddev	.00040	.00078	.00054	.00085	.00036
%RSD	187.06	292.53	12.924	2.7894	31.237
#1	-.00007	.00028	.00377	-.02998	-.00090
#2	.00049	-.00082	.00453	-.03118	-.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368710/1-a Acquired: 7/27/2017 11:07:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00761**	**.00103**	**-.00025**	**.02579**	**.00015**
Stddev	.00261	.00007	.00010	.00404	.00021
%RSD	34.291	6.9012	38.762	15.658	137.90
#1	.00945	.00098	-.00018	.02294	.00030
#2	.00576	.00108	-.00032	.02865	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.02659**	**-.00031**	**-.00173**	**.01249**
Stddev	.00002	.00076	.00049	.00012	.00941
%RSD	2.5830	2.8748	161.69	6.9094	75.353
#1	.00063	.02713	-.00065	-.00165	.01915
#2	.00066	.02605	.00004	-.00182	.00584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.00054**	**.00062**	**.00156**	**.00010**
Stddev	.00002	.00003	.00006	.00076	.00010
%RSD	2.9366	5.0993	10.136	48.588	97.616
#1	-.00072	.00056	.00066	.00102	.00003
#2	-.00075	.00052	.00057	.00210	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368710/1-a Acquired: 7/27/2017 11:07:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00071
Stddev	.00005
%RSD	7.1530
#1	.00068
#2	.00075
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3852.7	2471.2	17616.	3269.5
Stddev	5.6	3.4	37.	6.0
%RSD	.14504	.13676	.20737	.18388
#1	3856.7	2473.6	17590.	3273.8
#2	3848.8	2468.8	17642.	3265.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.06%	102.79%	102.72%	105.22%
Range				

Sample Name: lcs 480-368710/2-a Acquired: 7/27/2017 11:10:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04955**	**10.335**	**.20139**	**.20250**	**.20029**
Stddev	.00018	.049	.00069	.00042	.00073
%RSD	.35341	.47254	.34077	.20795	.36337
#1	.04943	10.300	.20187	.20280	.20080
#2	.04968	10.369	.20090	.20220	.19978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19879**	**9.9608**	**.20186**	**.0071**	**.18943**
Stddev	.00025	.0059	.00001	.0421	.00011
%RSD	.12627	.05924	.00517	595.5	.05714
#1	.19861	9.9567	.20186	-.0227	.18951
#2	.19896	9.9650	.20187	.0368	.18935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19925**	**.19972**	**10.175**	**9.6089**	**.19645**
Stddev	.00068	.00043	.003	.0448	.00126
%RSD	.34245	.21692	.02978	.46638	.63975
#1	.19973	.20002	10.177	9.5772	.19556
#2	.19876	.19941	10.173	9.6406	.19734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368710/2-a Acquired: 7/27/2017 11:10:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.223**	**.20890**	**.20373**	**9.6934**	**.19452**
Stddev	.063	.00067	.00020	.0013	.00015
%RSD	.61231	.31900	.09844	.01376	.07642
#1	10.267	.20937	.20387	9.6925	.19462
#2	10.179	.20843	.20359	9.6944	.19441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20323**	**9.8694**	**.19933**	**.19833**	**9.9308**
Stddev	.00073	.0109	.00155	.00112	.0147
%RSD	.35852	.11067	.77845	.56570	.14827
#1	.20271	9.8771	.20042	.19913	9.9413
#2	.20374	9.8617	.19823	.19754	9.9204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19859**	**.19361**	**.19433**	**.19960**	**.20490**
Stddev	.00049	.00105	.00105	.00039	.00017
%RSD	.24563	.54338	.54177	.19524	.08136
#1	.19825	.19287	.19507	.19933	.20478
#2	.19894	.19435	.19358	.19988	.20502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368710/2-a Acquired: 7/27/2017 11:10:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20805
Stddev	.00128
%RSD	.61334
#1	.20895
#2	.20714
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3634.3	2442.4	17303.	3268.5
Stddev	10.1	5.6	7.	15.4
%RSD	.27823	.22763	.04309	.47248
#1	3641.4	2446.3	17298.	3279.4
#2	3627.1	2438.5	17309.	3257.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.219%	101.59%	100.90%	105.18%
Range				

Sample Name: 480-121588-e-1-b Acquired: 7/27/2017 11:13:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00727**	**.00233**	**.02334**	**.17703**
Stddev	.00098	.01144	.00065	.00010	.00031
%RSD	449.82	157.39	27.863	.41876	.17502
#1	-.00091	-.00082	.00279	.02327	.17725
#2	.00047	.01535	.00187	.02341	.17681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**50.212**	**.00018**	**.0283**	**.00017**
Stddev	.00001	.038	.00019	.0127	.00020
%RSD	36.432	.07487	105.94	44.96	119.14
#1	-.00004	50.238	.00032	.0373	.00003
#2	-.00002	50.185	.00005	.0193	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00049**	**.02171**	**1.2994**	**.01215**
Stddev	.00036	.00023	.00189	.0154	.00021
%RSD	58.128	46.220	8.6921	1.1877	1.7176
#1	.00037	-.00065	.02037	1.2885	.01201
#2	.00088	-.00033	.02304	1.3104	.01230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-1-b Acquired: 7/27/2017 11:13:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.507**	**.28181**	**.00004**	**116.51**	**.00255**
Stddev	.000	.00087	.00019	.00	.00018
%RSD	.00039	.31000	482.39	.00321	7.0991
#1	15.507	.28243	.00017	116.51	.00268
#2	15.507	.28120	-.00009	116.52	.00243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**6.0152**	**.00028**	**-.00085**	**5.0587**
Stddev	.00038	.0134	.00199	.00152	.0108
%RSD	29.587	.22246	699.89	178.40	.21357
#1	.00103	6.0246	-.00112	-.00192	5.0664
#2	.00157	6.0057	.00169	.00022	5.0511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.28845**	**.00105**	**.00267**	**.00003**
Stddev	.00007	.00024	.00020	.00075	.00079
%RSD	27.574	.08159	18.718	27.881	2837.3
#1	-.00022	.28862	.00118	.00320	.00058
#2	-.00032	.28828	.00091	.00215	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-1-b Acquired: 7/27/2017 11:13:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00425**
Stddev	.00008
%RSD	1.8159
#1	.00420
#2	.00431
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3361.1**	**2349.8**	**16603.**	**3232.5**
Stddev	1.3	1.1	71.	1.1
%RSD	.03768	.04821	.42879	.03532
#1	3362.0	2350.6	16553.	3231.7
#2	3360.2	2349.0	16654.	3233.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.912%	97.736%	96.817%	104.03%
Range				

Sample Name: 480-121588-e-2-b Acquired: 7/27/2017 11:17:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.02601**	**.00270**	**.02344**	**.18135**
Stddev	.00015	.00875	.00093	.00005	.00025
%RSD	124.59	33.627	34.277	.22005	.14031
#1	-.00001	.03219	.00336	.02341	.18153
#2	-.00022	.01983	.00205	.02348	.18117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**51.348**	**.00017**	**.0021**	**-.00002**
Stddev	.00007	.239	.00004	.0149	.00024
%RSD	89.944	.46547	26.449	722.0	1109.1
#1	.00003	51.517	.00014	.0126	.00015
#2	.00013	51.179	.00020	-.0085	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.00023**	**.02262**	**1.3559**	**.01421**
Stddev	.00056	.00020	.00295	.0115	.00033
%RSD	68.022	84.952	13.058	.84915	2.3420
#1	.00123	.00009	.02053	1.3478	.01397
#2	.00043	.00037	.02471	1.3641	.01444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-2-b Acquired: 7/27/2017 11:17:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.870**	**.28546**	**.00012**	**119.82**	**.00223**
Stddev	.004	.00039	.00002	.55	.00004
%RSD	.02279	.13723	16.462	.46274	1.6547
#1	15.868	.28518	.00010	120.21	.00226
#2	15.873	.28574	.00013	119.43	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**6.1278**	**.00011**	**-.00247**	**5.1558**
Stddev	.00079	.0029	.00232	.00028	.0322
%RSD	45.802	.04714	2131.4	11.517	.62499
#1	.00117	6.1298	-.00153	-.00227	5.1786
#2	.00229	6.1258	.00175	-.00267	5.1330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.29691**	**.00093**	**.00214**	**-.00019**
Stddev	.00033	.00034	.00073	.00025	.00072
%RSD	64.725	.11338	78.614	11.518	376.04
#1	-.00074	.29715	.00145	.00231	-.00070
#2	-.00028	.29668	.00041	.00197	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-2-b Acquired: 7/27/2017 11:17:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00438
Stddev	.00068
%RSD	15.545
#1	.00486
#2	.00390
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3365.1	2353.5	16646.	3207.1
Stddev	12.3	8.3	32.	25.1
%RSD	.36508	.35429	.19153	.78255
#1	3373.7	2359.4	16668.	3189.3
#2	3356.4	2347.6	16623.	3224.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.017%	97.891%	97.064%	103.21%
Range				

Sample Name: 480-121588-e-3-b Acquired: 7/27/2017 11:20:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00157**	**.01941**	**.00026**	**.01393**	**.14699**
Stddev	.00007	.02248	.00372	.00015	.00092
%RSD	4.5731	115.83	1449.2	1.0483	.62325
#1	-.00152	.03531	.00289	.01383	.14634
#2	-.00162	.00351	-.00237	.01404	.14763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**34.100**	**.00026**	**.0381**	**.00007**
Stddev	.00010	.277	.00006	.0192	.00003
%RSD	329.28	.81265	22.973	50.30	42.439
#1	.00010	33.904	.00022	.0517	.00005
#2	-.00004	34.296	.00030	.0246	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00017**	**.00930**	**.87824**	**.01372**
Stddev	.00002	.00035	.00382	.05646	.00049
%RSD	62.886	212.10	41.097	6.4293	3.5473
#1	.00002	.00042	.01201	.83831	.01406
#2	.00004	-.00008	.00660	.91816	.01338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-3-b Acquired: 7/27/2017 11:20:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.310**	**.16167**	**.00040**	**71.954**	**.00122**
Stddev	.122	.00124	.00004	.486	.00031
%RSD	.91551	.76669	9.2207	.67555	25.836
#1	13.224	.16079	.00042	71.611	.00100
#2	13.396	.16255	.00037	72.298	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**6.2731**	**-.00071**	**-.00133**	**5.3452**
Stddev	.00043	.0034	.00124	.00317	.0472
%RSD	17.185	.05344	175.52	237.78	.88236
#1	.00220	6.2708	.00017	-.00357	5.3118
#2	.00281	6.2755	-.00159	.00091	5.3785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.18401**	**.00123**	**.00321**	**-.00037**
Stddev	.00050	.00164	.00033	.00029	.00012
%RSD	75.798	.89185	27.193	9.1666	32.205
#1	-.00101	.18284	.00099	.00342	-.00029
#2	-.00030	.18517	.00146	.00300	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-3-b Acquired: 7/27/2017 11:20:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00245**
Stddev	.00007
%RSD	2.8066
#1	.00240
#2	.00250
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3467.8**	**2379.8**	**16778.**	**3240.1**
Stddev	4.4	.7	137.	23.4
%RSD	.12548	.02800	.81519	.72190
#1	3470.8	2379.4	16875.	3256.7
#2	3464.7	2380.3	16682.	3223.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.765%	98.986%	97.837%	104.27%
Range				

Sample Name: 480-121588-e-4-b Acquired: 7/27/2017 11:23:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.03149**	**.00280**	**.08680**	**.05337**
Stddev	.00068	.00092	.00075	.00053	.00025
%RSD	102.72	2.9327	26.632	.60720	.47115
#1	-.00114	.03084	.00333	.08717	.05354
#2	-.00018	.03214	.00227	.08642	.05319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**16.536**	**.00010**	**.0198**	**.00008**
Stddev	.00009	.022	.00012	.0135	.00002
%RSD	14295.	.13488	127.24	68.40	27.497
#1	.00007	16.551	.00001	.0294	.00006
#2	-.00006	16.520	.00019	.0102	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.00075**	**.01631**	**.95333**	**.00029**
Stddev	.00054	.00104	.00074	.06427	.00218
%RSD	73.095	138.42	4.5616	6.7419	750.06
#1	.00113	.00149	.01578	.90788	-.00125
#2	.00036	.00002	.01683	.99877	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-4-b Acquired: 7/27/2017 11:23:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7822**	**.00519**	**-.00008**	**5.7829**	**.00077**
Stddev	.0013	.00000	.00004	.0014	.00008
%RSD	.04527	.07125	52.190	.02334	10.711
#1	2.7813	.00519	-.00011	5.7819	.00072
#2	2.7831	.00519	-.00005	5.7838	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**6.1683**	**.00020**	**-.00235**	**4.1590**
Stddev	.00059	.0088	.00010	.00282	.0039
%RSD	56.177	.14279	47.416	119.93	.09448
#1	.00063	6.1620	.00027	-.00036	4.1618
#2	.00147	6.1745	.00013	-.00435	4.1562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.07158**	**.00095**	**.00171**	**-.00013**
Stddev	.00016	.00018	.00015	.00033	.00011
%RSD	52.088	.25094	15.673	19.222	85.802
#1	-.00043	.07171	.00084	.00148	-.00005
#2	-.00020	.07146	.00105	.00195	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-4-b Acquired: 7/27/2017 11:23:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03353
Stddev	.00038
%RSD	1.1342
#1	.03380
#2	.03326
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3719.9	2432.2	17242.	3251.1
Stddev	.0	3.0	2.	.5
%RSD	.00051	.12424	.01160	.01686
#1	3719.9	2434.3	17243.	3251.5
#2	3719.9	2430.1	17241.	3250.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.510%	101.16%	100.54%	104.63%
Range				

Sample Name: 480-121588-e-5-d Acquired: 7/27/2017 11:27:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**.05636**	**-.00023**	**.02158**	**.11824**
Stddev	.00093	.00542	.00128	.00056	.00003
%RSD	81.290	9.6180	555.77	2.6103	.02805
#1	-.00181	.05253	.00067	.02118	.11827
#2	-.00049	.06019	-.00113	.02197	.11822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**29.936**	**.00009**	**.0360**	**.00008**
Stddev	.00004	.046	.00004	.0272	.00005
%RSD	106.77	.15405	45.974	75.50	61.585
#1	.00007	29.904	.00006	.0168	.00005
#2	.00001	29.969	.00013	.0552	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00033**	**.05141**	**.92482**	**.00999**
Stddev	.00102	.00003	.00127	.01251	.00096
%RSD	242.58	7.8832	2.4614	1.3522	9.6364
#1	-.00030	.00031	.05230	.91597	.00931
#2	.00114	.00035	.05051	.93366	.01067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d Acquired: 7/27/2017 11:27:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.145**	**.15558**	**-.00003**	**92.043**	**.00184**
Stddev	.026	.00000	.00022	.210	.00033
%RSD	.23526	.00020	784.66	.22768	17.966
#1	11.127	.15558	.00012	91.895	.00160
#2	11.164	.15558	-.00018	92.192	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**6.1374**	**.00095**	**-.00152**	**5.1894**
Stddev	.00089	.0092	.00111	.00122	.0234
%RSD	73.143	.15074	116.72	80.115	.45153
#1	.00059	6.1309	.00017	-.00239	5.1728
#2	.00186	6.1440	.00174	-.00066	5.2060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.17648**	**.00161**	**.00296**	**-.00025**
Stddev	.00038	.00011	.00092	.00062	.00003
%RSD	248.42	.06275	57.469	21.058	10.809
#1	-.00042	.17640	.00226	.00252	-.00027
#2	.00011	.17655	.00095	.00341	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d Acquired: 7/27/2017 11:27:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00213
Stddev	.00033
%RSD	15.570
#1	.00190
#2	.00237
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3434.5	2368.0	16678.	3205.4
Stddev	4.0	1.9	28.	20.5
%RSD	.11564	.08069	.16578	.63961
#1	3431.7	2366.6	16658.	3219.9
#2	3437.3	2369.3	16697.	3190.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.875%	98.493%	97.252%	103.16%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 11:30:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51750**	**24.909**	**.50033**	**.49863**	**.48997**
Stddev	.00159	.140	.00683	.00104	.00044
%RSD	.30803	.56378	1.3647	.20804	.09034
#1	.51862	25.008	.50516	.49937	.48965
#2	.51637	24.810	.49550	.49790	.49028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49795**	**24.753**	**.49748**	**.0137**	**.49208**
Stddev	.00266	.069	.00115	.0094	.00070
%RSD	.53338	.27704	.23096	68.55	.14220
#1	.49983	24.801	.49829	.0070	.49257
#2	.49607	24.704	.49667	.0203	.49158
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50996**	**.49143**	**24.174**	**24.193**	**.48896**
Stddev	.00066	.00076	.108	.110	.00298
%RSD	.12998	.15421	.44691	.45329	.60962
#1	.51043	.49196	24.250	24.270	.49106
#2	.50950	.49089	24.098	24.115	.48685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 11:30:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.926**	**.50968**	**.50875**	**24.488**	**.49711**
Stddev	.025	.00002	.00029	.039	.00163
%RSD	.10039	.00394	.05662	.16060	.32779
#1	24.943	.50969	.50854	24.516	.49826
#2	24.908	.50966	.50895	24.460	.49595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49630**	**24.700**	**.49655**	**.50284**	**24.084**
Stddev	.00063	.010	.00091	.00330	.075
%RSD	.12678	.03888	.18292	.65643	.31156
#1	.49674	24.707	.49719	.50050	24.137
#2	.49585	24.694	.49591	.50517	24.031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50367**	**.48393**	**.49200**	**.49348**	**.52122**
Stddev	.00033	.00178	.00073	.00136	.00254
%RSD	.06544	.36856	.14846	.27626	.48728
#1	.50391	.48519	.49251	.49445	.52301
#2	.50344	.48266	.49148	.49252	.51942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 11:30:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51840
Stddev	.00005
%RSD	.00947
#1	.51843
#2	.51837
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3419.1	2379.4	16524.	3179.1
Stddev	3.6	2.6	12.	6.7
%RSD	.10461	.10766	.07534	.21166
#1	3416.6	2377.6	16515.	3174.4
#2	3421.6	2381.2	16533.	3183.9

Sample Name: CCB-4130963 Acquired: 7/27/2017 11:33:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.00773**	**.00256**	**-.00069**	**.00003**
Stddev	.00035	.01693	.00198	.00012	.00002
%RSD	44.976	219.03	77.385	16.825	59.966
#1	-.00053	.00424	.00397	-.00061	.00002
#2	-.00102	-.01970	.00116	-.00078	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00066**	**-.00001**	**.0194**	**.00024**
Stddev	.00008	.00458	.00015	.0067	.00005
%RSD	212.40	692.45	1262.3	34.66	19.256
#1	-.00002	-.00390	.00009	.0242	.00028
#2	.00010	.00258	-.00012	.0147	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**-.00010**	**-.00111**	**.00572**	**.00150**
Stddev	.00064	.00023	.00265	.05062	.00008
%RSD	66.431	225.89	239.50	884.80	5.2620
#1	.00141	-.00027	.00077	.04151	.00145
#2	.00051	.00006	-.00298	-.03007	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 11:33:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00478**	**-.00001**	**-.00010**	**.00112**	**.00008**
Stddev	.00304	.00002	.00006	.00098	.00008
%RSD	63.600	128.40	60.833	87.744	98.219
#1	.00263	-.00000	-.00014	.00181	.00002
#2	.00693	-.00002	-.00006	.00042	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00229**	**.00027**	**-.00266**	**.01988**
Stddev	.00006	.00099	.00002	.00424	.00200
%RSD	8.0174	43.086	7.2811	159.50	10.058
#1	.00085	.00298	.00025	.00034	.02130
#2	.00076	.00159	.00028	-.00566	.01847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00006**	**.00013**	**.00172**	**-.00007**
Stddev	.00026	.00006	.00024	.00121	.00042
%RSD	531.73	94.559	185.16	70.476	610.34
#1	.00014	.00010	-.00004	.00257	-.00037
#2	-.00023	.00002	.00029	.00086	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 11:33:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00026**
Stddev	.00030
%RSD	117.37
#1	-.00047
#2	-.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3753.1**	**2414.3**	**17165.**	**3201.0**
Stddev	2.8	2.3	5.	6.4
%RSD	.07335	.09406	.02644	.19926
#1	3751.2	2415.9	17162.	3196.5
#2	3755.1	2412.7	17168.	3205.5

Sample Name: CCVL-4147888 Acquired: 7/27/2017 11:37:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00593**	**.19293**	**.01657**	**.01833**	**.00204**
Stddev	.00060	.00628	.00200	.00027	.00000
%RSD	10.126	3.2528	12.103	1.4787	.10729
#1	.00636	.19737	.01798	.01852	.00204
#2	.00551	.18849	.01515	.01814	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.49502**	**.00213**	**.0093**	**.00392**
Stddev	.00000	.00485	.00011	.0230	.00003
%RSD	.04992	.97931	4.9867	248.4	.72941
#1	.00207	.49159	.00205	-.0070	.00394
#2	.00207	.49845	.00220	.0256	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**.01013**	**.04682**	**.46911**	**.03034**
Stddev	.00007	.00042	.00025	.00392	.00075
%RSD	1.8452	4.1200	.52662	.83587	2.4600
#1	.00382	.01042	.04665	.46634	.03086
#2	.00392	.00983	.04699	.47188	.02981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 11:37:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20035**	**.00302**	**.01014**	**.97667**	**.00979**
Stddev	.00604	.00002	.00006	.00452	.00037
%RSD	3.0135	.73838	.58430	.46266	3.7665
#1	.20462	.00304	.01010	.97348	.01005
#2	.19608	.00300	.01018	.97987	.00952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00927**	**.19132**	**.02145**	**.02488**	**.49889**
Stddev	.00038	.00097	.00057	.00008	.00170
%RSD	4.0802	.50492	2.6407	.32515	.34139
#1	.00953	.19200	.02185	.02494	.50009
#2	.00900	.19064	.02105	.02483	.49768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00889**	**.00485**	**.00514**	**.02102**	**.00486**
Stddev	.00002	.00001	.00023	.00052	.00026
%RSD	.17277	.15042	4.4495	2.4956	5.2471
#1	.00887	.00484	.00530	.02139	.00468
#2	.00890	.00485	.00498	.02065	.00504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 11:37:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01111
Stddev	.00052
%RSD	4.6679
#1	.01148
#2	.01074
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3764.9	2428.6	17294.	3209.4
Stddev	10.0	6.5	18.	6.6
%RSD	.26456	.26834	.10204	.20715
#1	3757.8	2424.0	17307.	3214.1
#2	3771.9	2433.2	17282.	3204.7

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/27/2017 11:40:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10196**	**10.041**	**.40981**	**.21935**	**.31390**
Stddev	.00058	.012	.00068	.00033	.00117
%RSD	.56430	.11579	.16685	.15105	.37342
#1	.10236	10.049	.40932	.21912	.31307
#2	.10155	10.033	.41029	.21959	.31473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40424**	**48.728**	**.41029**	**.0085**	**.39150**
Stddev	.00156	.140	.00003	.0084	.00017
%RSD	.38554	.28686	.00825	98.68	.04224
#1	.40314	48.629	.41031	.0145	.39139
#2	.40534	48.827	.41026	.0026	.39162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40896**	**.39567**	**20.228**	**10.514**	**.20812**
Stddev	.00018	.00041	.119	.063	.00113
%RSD	.04415	.10372	.58616	.60142	.54099
#1	.40909	.39538	20.144	10.469	.20891
#2	.40883	.39596	20.312	10.559	.20732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/27/2017 11:40:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.251**	**.55789**	**.40077**	**97.905**	**.39709**
Stddev	.035	.00136	.00069	.607	.00131
%RSD	.11177	.24304	.17131	.62011	.33013
#1	31.226	.55693	.40126	97.475	.39802
#2	31.276	.55885	.40029	98.334	.39617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41111**	**15.812**	**.41174**	**.41650**	**5.0850**
Stddev	.00050	.010	.00243	.00158	.0299
%RSD	.12081	.06022	.59109	.37818	.58702
#1	.41146	15.806	.41002	.41761	5.0639
#2	.41075	15.819	.41346	.41538	5.1061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.36289**	**.39468**	**.39856**	**.42007**
Stddev	.00003	.00226	.00151	.00019	.00075
%RSD	35.194	.62212	.38285	.04821	.17942
#1	-.00006	.36129	.39361	.39869	.41954
#2	-.00010	.36448	.39574	.39842	.42060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/27/2017 11:40:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.42496**
Stddev	.00014
%RSD	.03406
#1	.42506
#2	.42486
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3342.5**	**2369.3**	**16634.**	**3239.7**
Stddev	.7	.2	41.	.0
%RSD	.01969	.00912	.24489	.00085
#1	3343.0	2369.5	16605.	3239.7
#2	3342.0	2369.2	16662.	3239.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.414%	98.548%	96.994%	104.26%
Range				

Sample Name: 480-121588-e-5-d PDS Acquired: 7/27/2017 11:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**.05936**	**.00027**	**.00642**	**.02386**
Stddev	.00081	.01543	.00289	.00023	.00001
%RSD	68.850	25.996	1067.7	3.5124	.02671
#1	-.00061	.07027	-.00177	.00658	.02387
#2	-.00176	.04845	.00232	.00626	.02386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**6.0045**	**.00009**	**.0333**	**.00023**
Stddev	.00001	.0248	.00008	.0043	.00011
%RSD	28.957	.41238	90.747	12.93	49.373
#1	.00005	5.9870	.00003	.0302	.00015
#2	.00003	6.0220	.00015	.0363	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00075**	**.00998**	**.19407**	**.00181**
Stddev	.00080	.00062	.00056	.01084	.00070
%RSD	920.46	81.930	5.6275	5.5857	38.791
#1	.00065	-.00032	.01038	.20173	.00132
#2	-.00048	-.00119	.00958	.18640	.00231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d PDS Acquired: 7/27/2017 11:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2166**	**.03128**	**-.00010**	**18.441**	**.00054**
Stddev	.0215	.00001	.00009	.067	.00007
%RSD	.96862	.01807	91.418	.36070	13.778
#1	2.2318	.03128	-.00016	18.394	.00059
#2	2.2014	.03129	-.00003	18.488	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**1.1751**	**.00076**	**.00212**	**1.0291**
Stddev	.00055	.0025	.00017	.00145	.0015
%RSD	45.619	.21128	22.522	68.462	.15036
#1	.00159	1.1768	.00064	.00110	1.0302
#2	.00081	1.1733	.00088	.00315	1.0280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.03554**	**.00035**	**.00172**	**-.00065**
Stddev	.00008	.00012	.00000	.00077	.00019
%RSD	27.565	.33137	1.0879	45.003	29.881
#1	-.00022	.03545	.00035	.00226	-.00051
#2	-.00033	.03562	.00035	.00117	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d PDS Acquired: 7/27/2017 11:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00250**
Stddev	.00069
%RSD	27.533
#1	.00202
#2	.00299
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3638.9**	**2395.5**	**16995.**	**3193.5**
Stddev	6.6	2.6	116.	23.5
%RSD	.18234	.10997	.67961	.73603
#1	3643.6	2397.3	16914.	3210.2
#2	3634.2	2393.6	17077.	3176.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.342%	99.636%	99.102%	102.77%
Range				

Sample Name: 480-121588-e-5-e ms Acquired: 7/27/2017 11:47:08 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04863	10.432	.20081	.21858	.31547
Stddev	.00030	.019	.00196	.00039	.00002
%RSD	.61618	.18150	.97539	.18069	.00544
#1	.04842	10.446	.19943	.21886	.31548
#2	.04884	10.419	.20220	.21830	.31546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19661	40.841	.19864	.0017	.19127
Stddev	.00090	.071	.00029	.0103	.00005
%RSD	.45922	.17419	.14546	598.8	.02856
#1	.19725	40.892	.19885	.0090	.19123
#2	.19597	40.791	.19844	-.0056	.19131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19617	.19467	10.244	10.566	.20393
Stddev	.00077	.00008	.072	.061	.00163
%RSD	.39280	.03896	.70490	.57625	.79861
#1	.19563	.19462	10.295	10.609	.20508
#2	.19672	.19472	10.193	10.522	.20278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-e ms Acquired: 7/27/2017 11:47:08 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.657**	**.43857**	**.19889**	**101.14**	**.19727**
Stddev	.045	.00057	.00011	.93	.00051
%RSD	.20988	.13051	.05622	.92360	.26099
#1	21.625	.43817	.19897	101.80	.19691
#2	21.689	.43898	.19881	100.48	.19763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20203**	**16.095**	**.19150**	**.19706**	**15.597**
Stddev	.00111	.002	.00125	.00266	.063
%RSD	.55001	.01463	.65254	1.3521	.40520
#1	.20282	16.093	.19238	.19517	15.641
#2	.20124	16.096	.19062	.19894	15.552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20138**	**.36713**	**.19964**	**.19326**	**.20162**
Stddev	.00017	.00204	.00094	.00025	.00008
%RSD	.08650	.55497	.47013	.12903	.03777
#1	.20150	.36858	.20030	.19309	.20168
#2	.20126	.36569	.19898	.19344	.20157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-e ms Acquired: 7/27/2017 11:47:08 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20645
Stddev	.00096
%RSD	.46611
#1	.20577
#2	.20713
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3358.0	2377.4	16720.	3254.1
Stddev	13.5	9.9	33.	6.2
%RSD	.40134	.41695	.20011	.18917
#1	3367.5	2384.4	16743.	3249.7
#2	3348.4	2370.4	16696.	3258.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.827%	98.884%	97.496%	104.72%
Range				

Sample Name: 480-121588-e-5-f msd Acquired: 7/27/2017 11:50:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04931	10.551	.20338	.22186	.31915
Stddev	.00020	.041	.00075	.00057	.00009
%RSD	.40147	.38951	.36688	.25591	.02940
#1	.04917	10.521	.20390	.22146	.31922
#2	.04945	10.580	.20285	.22227	.31909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19790	40.917	.20089	.0124	.19296
Stddev	.00153	.202	.00021	.0042	.00035
%RSD	.77475	.49400	.10298	33.65	.18023
#1	.19682	40.774	.20075	.0094	.19321
#2	.19899	41.060	.20104	.0153	.19272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19865	.19618	10.300	10.640	.20667
Stddev	.00013	.00183	.048	.011	.00109
%RSD	.06649	.93248	.46733	.10723	.52920
#1	.19874	.19488	10.266	10.632	.20589
#2	.19855	.19747	10.334	10.648	.20744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-f msd Acquired: 7/27/2017 11:50:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.810**	**.43982**	**.19999**	**101.44**	**.19983**
Stddev	.042	.00039	.00027	.12	.00037
%RSD	.19236	.08830	.13282	.11659	.18389
#1	21.840	.43955	.19981	101.35	.20009
#2	21.781	.44010	.20018	101.52	.19957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20600**	**16.240**	**.19631**	**.19865**	**15.618**
Stddev	.00012	.009	.00111	.00041	.059
%RSD	.05655	.05419	.56508	.20769	.37857
#1	.20592	16.246	.19553	.19836	15.576
#2	.20608	16.234	.19710	.19894	15.659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20278**	**.36760**	**.20239**	**.19656**	**.20532**
Stddev	.00042	.00123	.00023	.00015	.00175
%RSD	.20862	.33484	.11461	.07553	.85002
#1	.20248	.36673	.20222	.19646	.20655
#2	.20308	.36847	.20255	.19667	.20408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-f msd Acquired: 7/27/2017 11:50:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20833
Stddev	.00180
%RSD	.86594
#1	.20705
#2	.20960
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3352.5	2371.3	16635.	3240.9
Stddev	7.4	.5	43.	25.6
%RSD	.22013	.02137	.25884	.79015
#1	3347.3	2371.0	16604.	3259.0
#2	3357.7	2371.7	16665.	3222.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.681%	98.633%	97.000%	104.30%
Range				

Sample Name: 480-121588-e-6-b Acquired: 7/27/2017 11:53:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.82319**	**.00318**	**.02759**	**.07085**
Stddev	.00011	.01326	.00200	.00028	.00031
%RSD	45.979	1.6112	62.893	1.0117	.43252
#1	-.00032	.81381	.00459	.02779	.07107
#2	-.00016	.83257	.00176	.02739	.07063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**20.737**	**.00038**	**.0297**	**.00072**
Stddev	.00001	.114	.00009	.0066	.00012
%RSD	43.571	.55143	24.288	22.17	16.112
#1	.00004	20.656	.00031	.0343	.00081
#2	.00002	20.818	.00044	.0250	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**.01113**	**.84082**	**1.8733**	**.00567**
Stddev	.00036	.00029	.00651	.0326	.00172
%RSD	15.609	2.5869	.77455	1.7399	30.406
#1	.00258	.01133	.83621	1.8503	.00689
#2	.00206	.01092	.84542	1.8964	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-6-b Acquired: 7/27/2017 11:53:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3296**	**.35721**	**.00189**	**12.668**	**.00327**
Stddev	.0458	.00037	.00004	.101	.00026
%RSD	.62458	.10389	1.9941	.79917	7.9631
#1	7.3620	.35747	.00191	12.596	.00308
#2	7.2972	.35694	.00186	12.740	.00345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00453**	**7.3209**	**.00009**	**-.00114**	**7.9145**
Stddev	.00071	.0061	.00067	.00315	.0372
%RSD	15.710	.08353	737.72	274.91	.47019
#1	.00403	7.3166	.00057	-.00337	7.8882
#2	.00504	7.3253	-.00038	.00108	7.9408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.08565**	**.01788**	**.00334**	**.00097**
Stddev	.00004	.00065	.00078	.00151	.00002
%RSD	7.8633	.76194	4.3669	45.275	1.5456
#1	-.00047	.08519	.01732	.00441	.00096
#2	-.00042	.08612	.01843	.00227	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-6-b Acquired: 7/27/2017 11:53:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01225
Stddev	.00003
%RSD	.28230
#1	.01223
#2	.01228
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3672.3	2447.6	17328.	3292.6
Stddev	5.5	5.4	47.	17.1
%RSD	.15054	.21968	.27035	.52030
#1	3668.4	2443.8	17361.	3304.7
#2	3676.2	2451.4	17295.	3280.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.236%	101.81%	101.04%	105.96%
Range				

Sample Name: 480-121588-e-7-b Acquired: 7/27/2017 11:56:54 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**.19661**	**.00112**	**.01727**	**.15027**
Stddev	.00098	.00009	.00239	.00041	.00073
%RSD	60.563	.04342	213.98	2.3701	.48414
#1	-.00231	.19667	-.00057	.01698	.15078
#2	-.00093	.19655	.00281	.01756	.14975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**29.696**	**.00023**	**.0063**	**.00024**
Stddev	.00008	.076	.00007	.0007	.00011
%RSD	278.37	.25694	29.787	11.22	45.058
#1	.00003	29.750	.00028	.0058	.00032
#2	-.00009	29.642	.00018	.0068	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.00006**	**.21210**	**.92546**	**.00480**
Stddev	.00002	.00023	.00221	.04050	.00091
%RSD	4.7456	411.88	1.0432	4.3761	18.867
#1	.00037	.00011	.21366	.95410	.00544
#2	.00040	-.00022	.21053	.89682	.00416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-7-b Acquired: 7/27/2017 11:56:54 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.610**	**.14311**	**-.00010**	**99.483**	**.00208**
Stddev	.037	.00095	.00009	.378	.00025
%RSD	.34778	.66261	95.073	.37995	11.765
#1	10.636	.14378	-.00003	99.215	.00226
#2	10.584	.14244	-.00016	99.750	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00152**	**5.8144**	**.00068**	**.00063**	**4.1191**
Stddev	.00052	.0054	.00165	.00127	.0249
%RSD	33.923	.09343	241.74	200.38	.60418
#1	.00116	5.8183	-.00048	-.00026	4.1015
#2	.00189	5.8106	.00185	.00153	4.1367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.18494**	**.00389**	**.00244**	**-.00007**
Stddev	.00006	.00069	.00022	.00023	.00022
%RSD	17.114	.37258	5.7721	9.3525	303.48
#1	-.00031	.18445	.00405	.00228	-.00023
#2	-.00039	.18543	.00373	.00260	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-7-b Acquired: 7/27/2017 11:56:54 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01397
Stddev	.00002
%RSD	.14407
#1	.01398
#2	.01396
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3439.6	2386.7	16744.	3219.4
Stddev	.5	3.6	22.	18.3
%RSD	.01321	.15183	.13010	.56830
#1	3439.9	2389.2	16729.	3206.4
#2	3439.3	2384.1	16759.	3232.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.011%	99.269%	97.637%	103.61%
Range				

Sample Name: 480-121588-e-8-b Acquired: 7/27/2017 12:00:15 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.03270**	**.00264**	**.00333**	**.00018**
Stddev	.00041	.01892	.00242	.00003	.00002
%RSD	70.565	57.864	91.755	.86973	10.964
#1	-.00029	.04607	.00093	.00335	.00019
#2	-.00086	.01932	.00436	.00331	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.07921**	**-.00001**	**.0086**	**.00007**
Stddev	.00001	.00746	.00013	.0142	.00002
%RSD	46.121	9.4204	2546.2	165.4	25.821
#1	.00001	.07393	.00009	.0187	.00006
#2	.00003	.08449	-.00010	-.0015	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00063**	**.00304**	**-.00054**	**-.00185**
Stddev	.00084	.00067	.00042	.04097	.00207
%RSD	247.98	105.92	13.738	7558.0	112.19
#1	.00094	-.00016	.00274	.02842	-.00038
#2	-.00026	-.00110	.00333	-.02951	-.00331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-8-b Acquired: 7/27/2017 12:00:15 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00445**	**.00108**	**-.00025**	**.02196**	**.00044**
Stddev	.00322	.00006	.00012	.00388	.00018
%RSD	72.427	5.8187	48.604	17.662	39.884
#1	.00217	.00112	-.00016	.01922	.00057
#2	.00673	.00104	-.00034	.02470	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**.01410**	**.00045**	**.00158**	**.02359**
Stddev	.00035	.00054	.00178	.00012	.01084
%RSD	34.017	3.8648	391.31	7.8053	45.962
#1	.00077	.01371	-.00080	.00149	.03126
#2	.00126	.01448	.00171	.00167	.01593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00051**	**.00043**	**.00224**	**.00015**
Stddev	.00005	.00004	.00005	.00016	.00030
%RSD	6.9951	7.9781	10.603	6.9347	195.17
#1	-.00067	.00048	.00040	.00213	.00036
#2	-.00074	.00054	.00046	.00234	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-8-b Acquired: 7/27/2017 12:00:15 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00526**
Stddev	.00022
%RSD	4.1122
#1	.00542
#2	.00511
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3851.0**	**2475.9**	**17558.**	**3246.1**
Stddev	12.5	7.3	4.	24.9
%RSD	.32399	.29299	.02538	.76577
#1	3859.8	2481.0	17561.	3263.7
#2	3842.2	2470.7	17555.	3228.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.02%	102.98%	102.38%	104.47%
Range				

Sample Name: 480-121599-c-3-b Acquired: 7/27/2017 12:03:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00112**	**.09280**	**.00301**	**.01286**	**.14486**
Stddev	.00043	.01240	.00014	.00016	.00034
%RSD	38.506	13.367	4.5503	1.2329	.23745
#1	-.00143	.08403	.00311	.01275	.14510
#2	-.00082	.10157	.00292	.01297	.14462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**25.201**	**.00018**	**.0138**	**.00004**
Stddev	.00004	.063	.00005	.0241	.00011
%RSD	752.83	.25053	29.586	174.4	279.10
#1	.00003	25.246	.00014	-.0032	.00012
#2	-.00002	25.156	.00022	.0309	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.00475**	**.15835**	**2.8570**	**-.00248**
Stddev	.00043	.00066	.00234	.0366	.00027
%RSD	24.630	13.806	1.4765	1.2806	10.938
#1	.00143	.00521	.15669	2.8828	-.00268
#2	.00203	.00429	.16000	2.8311	-.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121599-c-3-b Acquired: 7/27/2017 12:03:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1595**	**.00546**	**-.00013**	**3.4812**	**.00135**
Stddev	.0235	.00003	.00008	.0104	.00062
%RSD	.56510	.51819	60.513	.29856	45.546
#1	4.1761	.00548	-.00007	3.4885	.00179
#2	4.1428	.00544	-.00019	3.4738	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00296**	**3.6066**	**-.00065**	**.00017**	**5.8158**
Stddev	.00022	.0079	.00001	.00388	.0329
%RSD	7.3822	.21875	2.2772	2306.5	.56493
#1	.00281	3.6011	-.00064	-.00258	5.8390
#2	.00312	3.6122	-.00066	.00291	5.7926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.29832**	**.01375**	**.00256**	**.00096**
Stddev	.00002	.00048	.00026	.00110	.00007
%RSD	4.0802	.15988	1.8610	42.884	6.8758
#1	-.00051	.29866	.01394	.00178	.00101
#2	-.00054	.29799	.01357	.00334	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121599-c-3-b Acquired: 7/27/2017 12:03:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01233
Stddev	.00041
%RSD	3.3592
#1	.01203
#2	.01262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3713.0	2444.1	17151.	3251.7
Stddev	4.5	.3	29.	20.5
%RSD	.12007	.01075	.17106	.63017
#1	3709.9	2443.9	17172.	3237.2
#2	3716.2	2444.2	17130.	3266.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.326%	101.66%	100.01%	104.65%
Range				

Sample Name: 480-121622-b-1-a Acquired: 7/27/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.04863**	**.00242**	**.81606**	**.15602**
Stddev	.00038	.00905	.00015	.00226	.00046
%RSD	55.267	18.611	6.2204	.27650	.29429
#1	-.00042	.05503	.00253	.81446	.15570
#2	-.00096	.04223	.00231	.81765	.15635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**104.93**	**.00031**	**.0300**	**.00274**
Stddev	.00005	.61	.00002	.0116	.00010
%RSD	933.48	.57669	4.9154	38.69	3.6132
#1	-.00003	104.50	.00030	.0382	.00267
#2	.00004	105.36	.00032	.0218	.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.00121**	**24.711**	**51.214**	**.05542**
Stddev	.00036	.00050	.179	.241	.00085
%RSD	17.599	41.278	.72270	.47117	1.5416
#1	.00180	.00085	24.585	51.043	.05602
#2	.00231	.00156	24.838	51.384	.05481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-1-a Acquired: 7/27/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**70.458**	**.19252**	**-.00035**	**59.123**	**.01176**
Stddev	.178	.00077	.00005	.570	.00064
%RSD	.25240	.39842	13.257	.96343	5.4058
#1	70.332	.19198	-.00039	58.721	.01221
#2	70.584	.19306	-.00032	59.526	.01131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00481**	**1.3448**	**-.00001**	**-.00237**	**8.2181**
Stddev	.00023	.0049	.00049	.00238	.0098
%RSD	4.7312	.36509	4676.9	100.38	.11867
#1	.00465	1.3413	.00034	-.00069	8.2112
#2	.00497	1.3483	-.00036	-.00405	8.2250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.16839**	**.00216**	**.00287**	**.00039**
Stddev	.00038	.00137	.00011	.00125	.00031
%RSD	19.322	.81094	4.9857	43.546	79.869
#1	.00225	.16743	.00208	.00199	.00017
#2	.00171	.16936	.00224	.00376	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-1-a Acquired: 7/27/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00815**
Stddev	.00011
%RSD	1.3516
#1	.00808
#2	.00823
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3279.3**	**2340.2**	**16526.**	**3270.7**
Stddev	2.5	4.5	78.	33.0
%RSD	.07570	.19057	.47298	1.0085
#1	3281.0	2343.3	16581.	3294.1
#2	3277.5	2337.0	16470.	3247.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.722%	97.335%	96.364%	105.26%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51409**	**24.964**	**.49772**	**.49816**	**.48978**
Stddev	.00008	.019	.00156	.00117	.00154
%RSD	.01502	.07688	.31318	.23572	.31393
#1	.51415	24.950	.49882	.49899	.49087
#2	.51404	24.977	.49662	.49733	.48869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49827**	**24.652**	**.49681**	**.0075**	**.49192**
Stddev	.00064	.079	.00063	.0161	.00012
%RSD	.12935	.32147	.12661	214.6	.02465
#1	.49781	24.596	.49636	.0189	.49184
#2	.49872	24.708	.49725	-.0039	.49201
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51290**	**.49351**	**23.949**	**24.056**	**.48869**
Stddev	.00102	.00269	.006	.039	.00049
%RSD	.19961	.54572	.02442	.16132	.10012
#1	.51363	.49541	23.945	24.083	.48834
#2	.51218	.49160	23.953	24.028	.48903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.851**	**.51027**	**.50732**	**24.461**	**.49704**
Stddev	.069	.00042	.00105	.063	.00023
%RSD	.27713	.08151	.20602	.25707	.04602
#1	24.802	.50998	.50806	24.417	.49720
#2	24.899	.51057	.50658	24.505	.49688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49822**	**24.679**	**.49385**	**.49791**	**23.941**
Stddev	.00073	.005	.00023	.00230	.155
%RSD	.14730	.02081	.04725	.46233	.64767
#1	.49874	24.682	.49369	.49628	23.831
#2	.49770	24.675	.49402	.49954	24.050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50352**	**.48123**	**.49501**	**.49324**	**.51820**
Stddev	.00028	.00046	.00138	.00326	.00041
%RSD	.05639	.09466	.27946	.66104	.07935
#1	.50372	.48091	.49598	.49094	.51790
#2	.50332	.48155	.49403	.49555	.51849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51439**
Stddev	.00359
%RSD	.69868
#1	.51185
#2	.51693
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3412.2**	**2379.0**	**16659.**	**3198.3**
Stddev	1.3	1.4	32.	23.7
%RSD	.03944	.05685	.19045	.74197
#1	3411.3	2378.0	16636.	3181.5
#2	3413.2	2379.9	16681.	3215.0

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:13:32 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00092**	**-.00170**	**.00043**	**-.00087**	**.00003**
Stddev	.00048	.00179	.00287	.00028	.00001
%RSD	52.289	104.79	666.72	31.743	45.567
#1	-.00058	-.00044	.00246	-.00106	.00003
#2	-.00126	-.00297	-.00160	-.00067	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00314**	**.00012**	**.0062**	**.00021**
Stddev	.00007	.00070	.00002	.0073	.00004
%RSD	390.90	22.315	18.553	116.5	20.092
#1	.00003	.00265	.00011	.0011	.00018
#2	-.00007	.00364	.00014	.0114	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00035**	**-.00098**	**.00426**	**-.00052**
Stddev	.00018	.00030	.00065	.02926	.00048
%RSD	38.234	84.886	66.130	687.42	92.409
#1	.00061	.00056	-.00052	.02495	-.00087
#2	.00035	.00014	-.00143	-.01644	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:13:32 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00250**	**.00003**	**-.00008**	**.00191**	**.00012**
Stddev	.00152	.00002	.00008	.00191	.00030
%RSD	60.902	65.105	95.289	100.17	262.82
#1	.00142	.00001	-.00014	.00326	.00033
#2	.00358	.00004	-.00003	.00056	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00282**	**.00049**	**-.00008**	**.00903**
Stddev	.00073	.00141	.00013	.00058	.00047
%RSD	87.173	50.055	26.459	727.82	5.1700
#1	.00136	.00382	.00040	.00033	.00870
#2	.00032	.00182	.00059	-.00049	.00936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00007**	**.00062**	**.00208**	**-.00008**
Stddev	.00026	.00008	.00004	.00001	.00010
%RSD	119.64	109.32	6.9513	.50176	119.90
#1	-.00003	.00013	.00059	.00209	-.00015
#2	-.00041	.00002	.00066	.00207	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:13:32 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00007**
Stddev	.00015
%RSD	231.51
#1	-.00018
#2	.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3742.6**	**2407.8**	**17159.**	**3172.0**
Stddev	1.7	1.7	24.	23.5
%RSD	.04612	.07151	.13974	.73968
#1	3741.4	2406.6	17142.	3188.6
#2	3743.8	2409.0	17176.	3155.5

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00645**	**.20561**	**.01610**	**.01872**	**.00205**
Stddev	.00041	.00367	.00104	.00005	.00000
%RSD	6.3947	1.7868	6.4860	.25763	.15966
#1	.00616	.20301	.01684	.01869	.00205
#2	.00675	.20820	.01536	.01875	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.49765**	**.00224**	**.0180**	**.00417**
Stddev	.00002	.01026	.00014	.0125	.00006
%RSD	.88857	2.0616	6.1059	69.50	1.4197
#1	.00200	.49040	.00214	.0268	.00412
#2	.00197	.50491	.00234	.0092	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**.01000**	**.04897**	**.48463**	**.02877**
Stddev	.00032	.00094	.00288	.01436	.00127
%RSD	7.1930	9.3882	5.8888	2.9622	4.4005
#1	.00465	.00934	.04693	.47448	.02967
#2	.00420	.01067	.05101	.49478	.02788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20008**	**.00312**	**.00996**	**.97314**	**.00997**
Stddev	.00262	.00013	.00005	.00642	.00032
%RSD	1.3114	4.2245	.49080	.65991	3.1619
#1	.19822	.00321	.00992	.96860	.01019
#2	.20193	.00302	.00999	.97768	.00974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00995**	**.19242**	**.02001**	**.02235**	**.48974**
Stddev	.00088	.00088	.00010	.00246	.01850
%RSD	8.8197	.45670	.51808	10.985	3.7775
#1	.00933	.19180	.01994	.02062	.47666
#2	.01057	.19304	.02009	.02409	.50282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00917**	**.00483**	**.00470**	**.02054**	**.00432**
Stddev	.00044	.00013	.00020	.00006	.00004
%RSD	4.7834	2.6444	4.3384	.27648	.87950
#1	.00886	.00474	.00455	.02058	.00430
#2	.00948	.00492	.00484	.02050	.00435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01065
Stddev	.00003
%RSD	.25517
#1	.01067
#2	.01063
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3763.2	2432.6	17287.	3167.6
Stddev	2.1	.7	20.	33.3
%RSD	.05486	.02960	.11722	1.0512
#1	3761.8	2432.1	17302.	3191.2
#2	3764.7	2433.1	17273.	3144.1

Sample Name: 480-121622-b-2-a Acquired: 7/27/2017 12:20:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.07199**	**.00322**	**.54337**	**.43222**
Stddev	.00032	.00869	.00009	.00002	.00109
%RSD	24.866	12.070	2.7474	.00411	.25161
#1	.00151	.06584	.00328	.54336	.43299
#2	.00106	.07813	.00315	.54339	.43145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**162.08**	**.00036**	**.0148**	**.00193**
Stddev	.00003	1.59	.00001	.0106	.00011
%RSD	61.128	.97795	3.7459	71.68	5.5445
#1	-.00003	163.20	.00035	.0073	.00186
#2	-.00008	160.96	.00036	.0223	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**.00407**	**26.947**	**37.879**	**.00126**
Stddev	.00011	.00086	.303	.260	.00188
%RSD	6.4087	20.993	1.1253	.68539	149.08
#1	.00157	.00347	27.162	38.062	.00259
#2	.00172	.00468	26.733	37.695	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-2-a Acquired: 7/27/2017 12:20:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.888**	**.12342**	**.00085**	**41.102**	**.00545**
Stddev	.253	.00033	.00004	.285	.00012
%RSD	.30177	.27143	4.4255	.69397	2.1649
#1	84.067	.12365	.00082	41.304	.00537
#2	83.709	.12318	.00088	40.900	.00553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**1.1572**	**-.00074**	**-.00085**	**10.974**
Stddev	.00014	.0049	.00159	.00313	.130
%RSD	5.5976	.42264	215.72	368.99	1.1889
#1	.00264	1.1606	.00039	.00136	11.066
#2	.00244	1.1537	-.00186	-.00306	10.882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.45082**	**.00324**	**.00245**	**-.00019**
Stddev	.00016	.00423	.00059	.00130	.00020
%RSD	108.25	.93826	18.163	52.951	105.20
#1	.00003	.45381	.00283	.00153	-.00034
#2	.00025	.44782	.00366	.00337	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-2-a Acquired: 7/27/2017 12:20:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02108
Stddev	.00074
%RSD	3.5329
#1	.02160
#2	.02055
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3235.9	2315.2	16458.	3217.2
Stddev	11.1	5.6	49.	23.0
%RSD	.34274	.24178	.29956	.71418
#1	3243.7	2319.2	16423.	3201.0
#2	3228.0	2311.2	16493.	3233.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.562%	96.297%	95.971%	103.54%
Range				

Sample Name: 480-121622-b-3-a Acquired: 7/27/2017 12:23:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.05793**	**.00560**	**2.2421**	**.01634**
Stddev	.00075	.00446	.00055	.0004	.00002
%RSD	91.830	7.6931	9.9165	.02028	.10899
#1	-.00029	.05478	.00599	2.2418	.01635
#2	-.00134	.06109	.00520	2.2424	.01633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**8.8461**	**.00039**	**.0027**	**.00911**
Stddev	.00003	.0157	.00006	.0122	.00012
%RSD	528.70	.17748	16.390	460.8	1.2979
#1	-.00003	8.8572	.00044	.0113	.00920
#2	.00001	8.8350	.00035	-.0060	.00903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00255**	**.00247**	**12.155**	**157.42**	**.00578**
Stddev	.00037	.00070	.035	.80	.00099
%RSD	14.572	28.315	.28451	.50846	17.138
#1	.00282	.00296	12.179	157.98	.00649
#2	.00229	.00197	12.130	156.85	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-3-a Acquired: 7/27/2017 12:23:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**94.843**	**.06290**	**.00045**	**345.98**	**.02688**
Stddev	.249	.00004	.00019	1.87	.00003
%RSD	.26214	.05743	41.267	.53990	.10033
#1	95.018	.06287	.00058	347.30	.02689
#2	94.667	.06293	.00032	344.66	.02686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00167**	**2.6895**	**.00067**	**-.00213**	**1.2811**
Stddev	.00021	.0030	.00125	.00017	.0057
%RSD	12.758	.11224	186.00	7.9217	.44482
#1	.00152	2.6916	.00156	-.00225	1.2851
#2	.00182	2.6873	-.00021	-.00201	1.2770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00262**	**.09560**	**.00170**	**.00187**	**-.00066**
Stddev	.00029	.00049	.00025	.00067	.00022
%RSD	10.942	.50974	14.603	35.925	33.382
#1	.00241	.09595	.00152	.00139	-.00082
#2	.00282	.09526	.00187	.00234	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-3-a Acquired: 7/27/2017 12:23:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01513**
Stddev	.00008
%RSD	.53039
#1	.01519
#2	.01507
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3092.3**	**2282.8**	**15992.**	**3250.2**
Stddev	5.2	2.3	14.	13.2
%RSD	.16909	.10273	.09054	.40510
#1	3096.0	2284.5	16002.	3240.9
#2	3088.6	2281.1	15982.	3259.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.720%	94.950%	93.251%	104.60%
Range				

Sample Name: 480-121622-b-4-a Acquired: 7/27/2017 12:27:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00150**	**.06522**	**.00121**	**.82825**	**.07041**
Stddev	.00021	.00486	.00096	.00124	.00037
%RSD	13.706	7.4467	79.746	.14912	.52119
#1	-.00165	.06178	.00053	.82912	.07067
#2	-.00136	.06865	.00189	.82737	.07016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**91.691**	**.00044**	**.0160**	**.00267**
Stddev	.00002	.533	.00019	.0032	.00002
%RSD	35.396	.58108	42.594	19.68	.73928
#1	-.00006	92.068	.00057	.0183	.00268
#2	-.00004	91.314	.00031	.0138	.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**.00731**	**30.796**	**39.170**	**.19521**
Stddev	.00005	.00099	.150	.165	.00070
%RSD	1.6648	13.558	.48823	.42108	.35667
#1	.00282	.00801	30.902	39.287	.19570
#2	.00275	.00661	30.689	39.053	.19471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-4-a Acquired: 7/27/2017 12:27:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**67.126**	**.14351**	**.00011**	**44.665**	**.01086**
Stddev	.440	.00082	.00007	.251	.00070
%RSD	.65605	.57138	62.133	.56166	6.4711
#1	67.437	.14409	.00016	44.843	.01136
#2	66.815	.14293	.00006	44.488	.01036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**1.2368**	**-.00082**	**-.00210**	**7.6904**
Stddev	.00075	.0001	.00120	.00160	.0614
%RSD	12.795	.00716	146.33	76.243	.79787
#1	.00637	1.2368	-.00167	-.00323	7.7338
#2	.00532	1.2369	.00003	-.00097	7.6470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00162**	**.12680**	**.00275**	**.00207**	**.00044**
Stddev	.00011	.00061	.00064	.00207	.00052
%RSD	6.8878	.47970	23.383	100.33	117.93
#1	.00170	.12723	.00229	.00060	.00007
#2	.00154	.12637	.00320	.00353	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-4-a Acquired: 7/27/2017 12:27:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07710
Stddev	.00006
%RSD	.07707
#1	.07706
#2	.07714
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3297.1	2339.6	16533.	3225.5
Stddev	.0	.2	23.	10.1
%RSD	.00009	.00694	.14121	.31372
#1	3297.1	2339.7	16550.	3218.3
#2	3297.1	2339.5	16517.	3232.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.200%	97.313%	96.408%	103.80%
Range				

Sample Name: 480-121624-a-1-a Acquired: 7/27/2017 12:30:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.05988**	**.00201**	**.10657**	**.02844**
Stddev	.00107	.01792	.00130	.00019	.00014
%RSD	148.85	29.926	64.549	.18173	.47852
#1	-.00148	.04721	.00292	.10671	.02854
#2	.00004	.07256	.00109	.10643	.02834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**539.79**	**.00058**	**.0652**	**.00105**
Stddev	.00007	3.27	.00000	.0176	.00018
%RSD	88.575	.60505	.19702	26.99	17.129
#1	-.00013	542.10	.00059	.0776	.00118
#2	-.00003	537.48	.00058	.0527	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00174**	**.00072**	**3.2053**	**10.545**	**.06219**
Stddev	.00017	.00056	.0022	.021	.00114
%RSD	9.5144	77.715	.06710	.19992	1.8274
#1	.00185	.00033	3.2037	10.530	.06138
#2	.00162	.00112	3.2068	10.560	.06299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121624-a-1-a Acquired: 7/27/2017 12:30:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**162.73**	**1.4495**	**.00216**	**77.930**	**.00572**
Stddev	.38	.0012	.00013	.315	.00021
%RSD	.23498	.07960	6.0596	.40455	3.7196
#1	163.00	1.4503	.00207	77.707	.00587
#2	162.46	1.4487	.00225	78.153	.00557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00261**	F **537.47**	**-.00057**	**-.00794**	**10.241**
Stddev	.00066	.58	.00027	.00633	.083
%RSD	25.405	.10811	47.653	79.705	.81415
#1	.00307	537.88	-.00076	-.00347	10.182
#2	.00214	537.06	-.00038	-.01242	10.300
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**.98526**	**.00224**	**.00182**	**-.00132**
Stddev	.00035	.00186	.00033	.00123	.00038
%RSD	32.785	.18832	14.592	67.616	28.624
#1	-.00082	.98395	.00201	.00095	-.00159
#2	-.00132	.98658	.00248	.00269	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121624-a-1-a Acquired: 7/27/2017 12:30:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02324**
Stddev	.00014
%RSD	.60093
#1	.02333
#2	.02314
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2972.8**	**2167.9**	**15460.**	**3123.9**
Stddev	5.8	4.5	33.	12.0
%RSD	.19577	.20818	.21500	.38416
#1	2976.9	2171.1	15483.	3132.4
#2	2968.7	2164.7	15436.	3115.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.525%	90.171%	90.147%	100.53%
Range				

Sample Name: 480-121634-d-1-a Acquired: 7/27/2017 12:33:53 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**1.5693**	**.00338**	**.02848**	**.08481**
Stddev	.00089	.0316	.00018	.00037	.00005
%RSD	83.526	2.0151	5.3512	1.2820	.05392
#1	-.00170	1.5470	.00351	.02874	.08478
#2	-.00044	1.5917	.00325	.02822	.08485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**233.00**	**.00032**	**.0142**	**.00222**
Stddev	.00003	1.06	.00003	.0362	.00003
%RSD	14.047	.45326	7.8377	254.0	1.3548
#1	.00027	233.74	.00034	-.0113	.00224
#2	.00022	232.25	.00031	.0398	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00575**	**.01533**	**8.4218**	**12.499**	**-.00595**
Stddev	.00031	.00080	.0479	.083	.00086
%RSD	5.4623	5.2294	.56856	.66076	14.436
#1	.00597	.01476	8.4557	12.557	-.00656
#2	.00553	.01590	8.3880	12.441	-.00535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121634-d-1-a Acquired: 7/27/2017 12:33:53 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.421**	**.75883**	**.00142**	**91.442**	**.00871**
Stddev	.018	.00012	.00019	.478	.00015
%RSD	.14419	.01640	13.186	.52233	1.6993
#1	12.409	.75874	.00129	91.780	.00861
#2	12.434	.75891	.00155	91.105	.00882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01451**	**4.4073**	**.00269**	**-.00094**	**5.0422**
Stddev	.00043	.0049	.00136	.00016	.0597
%RSD	2.9663	.11196	50.561	16.992	1.1845
#1	.01481	4.4108	.00366	-.00105	5.0844
#2	.01421	4.4038	.00173	-.00082	5.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.29087**	**.02279**	**.00192**	**.00433**
Stddev	.00046	.00142	.00055	.00022	.00020
%RSD	63.116	.48948	2.3935	11.276	4.5639
#1	.00107	.29188	.02240	.00207	.00447
#2	.00041	.28987	.02317	.00177	.00419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121634-d-1-a Acquired: 7/27/2017 12:33:53 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.41880**
Stddev	.00019
%RSD	.04651
#1	.41866
#2	.41894
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3238.9**	**2328.1**	**16526.**	**3277.8**
Stddev	7.1	1.6	56.	7.0
%RSD	.21815	.06695	.33967	.21267
#1	3243.9	2329.2	16565.	3272.9
#2	3233.9	2327.0	16486.	3282.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.643%	96.835%	96.363%	105.49%
Range				

Sample Name: 480-121613-d-1-a Acquired: 7/27/2017 12:37:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.10660**	**.10161**	**11.066**	**.24910**
Stddev	.00081	.03099	.00120	.018	.00034
%RSD	131.81	29.069	1.1810	.15974	.13710
#1	-.00119	.12852	.10246	11.053	.24886
#2	-.00004	.08469	.10076	11.078	.24934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**104.56**	**.00048**	**.0123**	**.02867**
Stddev	.00000	.04	.00011	.0023	.00010
%RSD	4.1086	.03856	23.821	18.50	.36276
#1	-.00003	104.53	.00056	.0139	.02874
#2	-.00003	104.59	.00040	.0107	.02859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09493**	**-.00042**	**6.2138**	**465.17**	**.05313**
Stddev	.00004	.00022	.0249	.53	.00178
%RSD	.04071	52.469	.40008	.11488	3.3434
#1	.09490	-.00026	6.1962	464.79	.05187
#2	.09496	-.00057	6.2313	465.55	.05439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-1-a Acquired: 7/27/2017 12:37:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.545**	**.26982**	**.00524**	**1320.0**	**.19925**
Stddev	.043	.00002	.00013	4.7	.00050
%RSD	.05158	.00584	2.5680	.35768	.25148
#1	83.514	.26980	.00534	1316.7	.19960
#2	83.575	.26983	.00515	1323.3	.19889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**17.162**	**.00909**	**.00173**	**11.048**
Stddev	.00128	.018	.00025	.00008	.054
%RSD	30.185	.10323	2.7227	4.7252	.48827
#1	.00514	17.150	.00892	.00179	11.009
#2	.00333	17.175	.00927	.00167	11.086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01402**	**.84029**	**.05291**	**.00123**	**.07674**
Stddev	.00044	.00356	.00017	.00246	.00035
%RSD	3.1186	.42384	.32761	199.47	.45775
#1	.01371	.83777	.05304	.00297	.07699
#2	.01433	.84280	.05279	-.00051	.07650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-1-a Acquired: 7/27/2017 12:37:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04626**
Stddev	.00059
%RSD	1.2749
#1	.04584
#2	.04667
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2711.2**	**2130.6**	**14738.**	**3190.3**
Stddev	3.4	.9	48.	1.2
%RSD	.12463	.04219	.32796	.03737
#1	2708.8	2130.0	14772.	3189.4
#2	2713.6	2131.3	14703.	3191.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.527%	88.620%	85.937%	102.67%
Range				

Sample Name: 480-121613-d-2-a Acquired: 7/27/2017 12:40:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.15872**	**.09774**	**11.996**	**.38159**
Stddev	.00120	.01157	.00476	.028	.00104
%RSD	174.02	7.2917	4.8660	.23158	.27153
#1	.00016	.16690	.09438	11.976	.38232
#2	-.00154	.15053	.10110	12.016	.38085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**115.89**	**.00037**	**.0179**	**.03127**
Stddev	.00006	.52	.00028	.0235	.00004
%RSD	135.55	.44793	76.504	131.2	.12203
#1	.00000	116.25	.00057	.0013	.03125
#2	.00009	115.52	.00017	.0345	.03130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11143**	**.00197**	**9.9389**	**497.13**	**.05730**
Stddev	.00061	.00025	.0556	3.35	.00077
%RSD	.54972	12.736	.55970	.67400	1.3430
#1	.11187	.00179	9.9782	499.50	.05675
#2	.11100	.00215	9.8996	494.76	.05784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-2-a Acquired: 7/27/2017 12:40:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**90.691**	**.28661**	**.00584**	**1445.2**	**.21658**
Stddev	.462	.00134	.00048	9.1	.00002
%RSD	.50974	.46891	8.2954	.63254	.00749
#1	91.018	.28757	.00618	1451.7	.21657
#2	90.364	.28566	.00550	1438.8	.21660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**19.061**	**.01145**	**.00413**	**12.067**
Stddev	.00041	.049	.00095	.00022	.013
%RSD	7.5508	.25684	8.3197	5.2636	.11102
#1	.00570	19.027	.01213	.00397	12.076
#2	.00512	19.096	.01078	.00428	12.058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01931**	**.97682**	**.08772**	**.00039**	**.07789**
Stddev	.00054	.00630	.00068	.00133	.00046
%RSD	2.8122	.64462	.77779	340.09	.58709
#1	.01969	.98128	.08724	-.00055	.07821
#2	.01893	.97237	.08821	.00133	.07756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-2-a Acquired: 7/27/2017 12:40:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.06653
Stddev	.00098
%RSD	1.4672
#1	.06722
#2	.06584
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2666.9	2102.7	14593.	3132.9
Stddev	6.3	1.4	107.	10.3
%RSD	.23528	.06709	.73496	.33034
#1	2662.5	2101.7	14517.	3125.6
#2	2671.4	2103.7	14669.	3140.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.342%	87.459%	85.094%	100.82%
Range				

Sample Name: 480-121613-d-3-a Acquired: 7/27/2017 12:44:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**1.2635**	**.40701**	**9.8127**	**2.2291**
Stddev	.00025	.0240	.00214	.0090	.0072
%RSD	20.576	1.9038	.52642	.09189	.32289
#1	-.00103	1.2465	.40549	9.8191	2.2342
#2	-.00138	1.2805	.40852	9.8064	2.2240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**309.29**	**.00020**	**.0625**	**.03011**
Stddev	.00001	3.00	.00010	.0228	.00014
%RSD	1.8781	.97014	49.759	36.42	.44864
#1	.00062	311.41	.00027	.0464	.03001
#2	.00060	307.16	.00013	.0786	.03020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.27390**	**.01636**	**105.38**	**426.59**	**.03853**
Stddev	.00040	.00006	.02	1.20	.00065
%RSD	.14687	.38304	.01567	.28066	1.6764
#1	.27361	.01641	105.37	427.43	.03898
#2	.27418	.01632	105.39	425.74	.03807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a Acquired: 7/27/2017 12:44:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**101.19**	**1.0800**	**.00584**	**1205.2**	**.19274**
Stddev	.24	.0010	.00021	2.8	.00030
%RSD	.23780	.09004	3.5335	.23067	.15776
#1	101.36	1.0806	.00598	1207.1	.19253
#2	101.02	1.0793	.00569	1203.2	.19296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02999**	**25.400**	**.01254**	**.00518**	**15.466**
Stddev	.00116	.025	.00218	.00540	.066
%RSD	3.8566	.09954	17.397	104.13	.42766
#1	.02917	25.418	.01099	.00137	15.513
#2	.03081	25.382	.01408	.00900	15.419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09436**	**2.4122**	**.60602**	**-.00186**	**.24789**
Stddev	.00062	.0068	.00035	.00083	.00040
%RSD	.65882	.28375	.05709	44.699	.16084
#1	.09480	2.4170	.60577	-.00127	.24818
#2	.09392	2.4073	.60626	-.00245	.24761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a Acquired: 7/27/2017 12:44:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.15675**
Stddev	.00058
%RSD	.37107
#1	.15717
#2	.15634
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2641.6**	**2118.2**	**14809.**	**3146.4**
Stddev	3.2	3.0	51.	14.2
%RSD	.12163	.14052	.34363	.45080
#1	2643.8	2120.3	14773.	3136.3
#2	2639.3	2116.1	14845.	3156.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.664%	88.103%	86.354%	101.26%
Range				

Sample Name: 480-121470-o-1-b Acquired: 7/27/2017 12:47:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00242**	**.13582**	**.07106**	**12.964**	**.55034**
Stddev	.00024	.00286	.00110	.014	.00052
%RSD	10.016	2.1021	1.5529	.10644	.09441
#1	-.00225	.13380	.07184	12.955	.55071
#2	-.00259	.13784	.07028	12.974	.54997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**216.37**	**.00068**	**.0371**	**.03967**
Stddev	.00002	.31	.00001	.0141	.00002
%RSD	93.928	.14446	1.5865	38.12	.05470
#1	.00001	216.15	.00069	.0271	.03965
#2	.00004	216.59	.00068	.0471	.03968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10932**	**.02793**	**15.313**	**290.37**	**.04604**
Stddev	.00126	.00004	.012	.32	.00119
%RSD	1.1507	.14738	.07988	.10867	2.5828
#1	.11020	.02796	15.321	290.59	.04688
#2	.10843	.02790	15.304	290.15	.04520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121470-o-1-b Acquired: 7/27/2017 12:47:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**100.94**	**2.6926**	**.00706**	**1167.6**	**.22329**
Stddev	.37	.0104	.00005	.2	.00046
%RSD	.36570	.38755	.74286	.01437	.20651
#1	101.20	2.7000	.00702	1167.7	.22362
#2	100.68	2.6853	.00710	1167.5	.22296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00928**	**51.151**	**.01114**	**.00427**	**25.648**
Stddev	.00100	.060	.00085	.00083	.005
%RSD	10.806	.11779	7.6211	19.553	.02055
#1	.00999	51.109	.01054	.00486	25.644
#2	.00857	51.194	.01174	.00368	25.652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01255**	**1.5564**	**.22147**	**.00073**	**.09803**
Stddev	.00063	.0025	.00019	.00250	.00101
%RSD	5.0160	.16064	.08527	340.55	1.0333
#1	.01299	1.5582	.22134	-.00103	.09875
#2	.01210	1.5547	.22160	.00250	.09731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121470-o-1-b Acquired: 7/27/2017 12:47:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.14774**
Stddev	.00246
%RSD	1.6636
#1	.14948
#2	.14601
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2704.9**	**2108.3**	**14812.**	**3154.6**
Stddev	5.4	6.5	74.	21.7
%RSD	.19912	.30879	.50230	.68816
#1	2708.7	2112.9	14760.	3170.0
#2	2701.1	2103.7	14865.	3139.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.357%	87.691%	86.372%	101.52%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:50:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51000**	**24.947**	**.49983**	**.53119**	**.49039**
Stddev	.00367	.094	.00084	.00122	.00077
%RSD	.71900	.37707	.16892	.22876	.15794
#1	.50740	24.880	.49923	.53205	.48985
#2	.51259	25.013	.50043	.53033	.49094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49899**	**24.805**	**.49730**	**.0258**	**.49207**
Stddev	.00156	.084	.00019	.0299	.00033
%RSD	.31288	.33741	.03777	115.9	.06765
#1	.49789	24.746	.49743	.0047	.49230
#2	.50009	24.864	.49717	.0469	.49183
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50839**	**.49028**	**24.263**	**24.543**	**.49346**
Stddev	.00353	.00403	.065	.034	.00193
%RSD	.69514	.82192	.26857	.13654	.39212
#1	.50589	.48743	24.217	24.519	.49209
#2	.51089	.49313	24.309	24.567	.49483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:50:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.815**	**.50875**	**.50766**	**24.560**	**.49749**
Stddev	.108	.00103	.00093	.055	.00096
%RSD	.43651	.20294	.18332	.22440	.19305
#1	24.738	.50802	.50832	24.521	.49681
#2	24.891	.50948	.50700	24.599	.49817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49636**	**24.704**	**.49438**	**.50591**	**24.781**
Stddev	.00136	.020	.00125	.00424	.078
%RSD	.27317	.08040	.25299	.83854	.31307
#1	.49732	24.718	.49527	.50891	24.836
#2	.49540	24.690	.49350	.50291	24.726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50267**	**.48691**	**.49247**	**.49485**	**.51340**
Stddev	.00105	.00067	.00259	.00066	.00520
%RSD	.20965	.13779	.52500	.13261	1.0127
#1	.50341	.48644	.49064	.49531	.50972
#2	.50192	.48739	.49430	.49438	.51707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:50:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50956**
Stddev	.00216
%RSD	.42464
#1	.50803
#2	.51109
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3415.3**	**2376.0**	**16725.**	**3161.5**
Stddev	1.1	1.2	51.	25.4
%RSD	.03347	.04956	.30639	.80342
#1	3414.5	2375.1	16761.	3179.4
#2	3416.2	2376.8	16689.	3143.5

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:54:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.01859**	**.00252**	F **.02126**	**.00002**
Stddev	.00044	.01357	.00014	.00071	.00000
%RSD	1976.2	73.002	5.6110	3.3245	19.952
#1	-.00029	.00899	.00242	.02176	.00002
#2	.00033	.02819	.00262	.02076	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00763**	**-.00009**	**-.0058**	**.00010**
Stddev	.00002	.00395	.00006	.0267	.00004
%RSD	17.418	51.769	67.837	460.7	45.780
#1	.00009	.01042	-.00014	-.0246	.00006
#2	.00011	.00484	-.00005	.0131	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00079**	**-.00190**	**.19238**	**-.00125**
Stddev	.00028	.00040	.00108	.02521	.00020
%RSD	90.558	49.822	56.874	13.104	15.571
#1	.00051	-.00051	-.00113	.17455	-.00139
#2	.00011	-.00107	-.00266	.21021	-.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:54:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00483**	**.00001**	**-.00003**	**.08814**	**.00031**
Stddev	.00658	.00007	.00005	.00361	.00002
%RSD	136.31	621.82	196.74	4.0965	7.4553
#1	-.00017	.00006	-.00006	.09070	.00032
#2	-.00948	-.00004	.00001	.08559	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00844**	**.00242**	**.00199**	**.04518**
Stddev	.00069	.00138	.00094	.00349	.01219
%RSD	177.66	16.389	38.923	175.32	26.971
#1	.00087	.00746	.00175	-.00048	.05380
#2	-.00010	.00942	.00309	.00446	.03656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00010**	**.00107**	**.00264**	**.00004**
Stddev	.00016	.00000	.00036	.00005	.00009
%RSD	52.729	.00156	33.520	1.7203	221.66
#1	.00019	.00010	.00132	.00261	-.00002
#2	.00042	.00010	.00081	.00267	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:54:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00015
Stddev	.00005
%RSD	33.187
#1	.00019
#2	.00012
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3750.4	2414.0	17160.	3201.1
Stddev	11.0	4.9	136.	5.2
%RSD	.29421	.20199	.79324	.16371
#1	3758.2	2417.4	17257.	3204.8
#2	3742.6	2410.5	17064.	3197.4

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:57:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00568**	**.18117**	**.01556**	F **.03509**	**.00204**
Stddev	.00039	.01553	.00022	.00016	.00002
%RSD	6.8346	8.5717	1.4349	.46260	.81932
#1	.00541	.19216	.01540	.03498	.00205
#2	.00596	.17019	.01572	.03521	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.49660**	**.00219**	**.0206**	**.00403**
Stddev	.00009	.00151	.00010	.0054	.00000
%RSD	4.4911	.30360	4.5188	26.34	.04275
#1	.00205	.49767	.00226	.0168	.00403
#2	.00193	.49554	.00212	.0245	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00402**	**.00971**	**.04561**	**.56823**	**.02885**
Stddev	.00013	.00051	.00132	.03038	.00165
%RSD	3.1737	5.2158	2.8926	5.3467	5.7048
#1	.00393	.01007	.04467	.54675	.02768
#2	.00411	.00935	.04654	.58971	.03001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:57:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19521**	**.00307**	**.00995**	**1.0292**	**.00964**
Stddev	.00132	.00008	.00009	.0030	.00011
%RSD	.67847	2.4753	.94357	.28782	1.1723
#1	.19427	.00302	.01001	1.0271	.00956
#2	.19614	.00313	.00988	1.0313	.00972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01046**	**.19731**	**.02076**	**.02249**	**.51403**
Stddev	.00028	.00091	.00154	.00236	.00251
%RSD	2.7071	.45915	7.4156	10.507	.48898
#1	.01066	.19795	.02185	.02081	.51226
#2	.01026	.19667	.01967	.02416	.51581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00893**	**.00487**	**.00552**	**.02149**	**.00489**
Stddev	.00040	.00002	.00025	.00018	.00012
%RSD	4.4317	.31236	4.4437	.81926	2.5075
#1	.00921	.00488	.00534	.02162	.00498
#2	.00865	.00486	.00569	.02137	.00481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:57:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01108
Stddev	.00045
%RSD	4.0959
#1	.01076
#2	.01140
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3765.1	2428.8	17208.	3187.6
Stddev	5.5	4.5	70.	31.4
%RSD	.14534	.18690	.40508	.98653
#1	3761.2	2425.6	17258.	3209.9
#2	3768.9	2432.0	17159.	3165.4

Sample Name: mb 480-368647/1-a Acquired: 7/27/2017 13:00:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00789**	**.00172**	**.01462**	**.00011**
Stddev	.00015	.00156	.00177	.00020	.00001
%RSD	148.51	19.714	102.77	1.3546	8.2722
#1	.00001	.00899	.00047	.01476	.00011
#2	-.00021	.00679	.00297	.01448	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.05336**	**.00002**	**.0214**	**.00013**
Stddev	.00002	.00387	.00002	.0202	.00005
%RSD	46.379	7.2438	125.43	94.53	36.082
#1	.00003	.05062	.00000	.0357	.00016
#2	.00006	.05609	.00003	.0071	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00006**	**.00382**	**.09232**	**-.00135**
Stddev	.00005	.00061	.00009	.00589	.00059
%RSD	22.241	946.93	2.3750	6.3818	43.353
#1	.00021	.00050	.00389	.09649	-.00094
#2	.00029	-.00037	.00376	.08815	-.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368647/1-a Acquired: 7/27/2017 13:00:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00224**	**.00042**	**-.00023**	**.07668**	**.00008**
Stddev	.00758	.00000	.00020	.00448	.00004
%RSD	338.13	.99027	86.403	5.8428	45.119
#1	.00760	.00042	-.00037	.07984	.00011
#2	-.00312	.00042	-.00009	.07351	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.02521**	**.00091**	**-.00343**	**.02075**
Stddev	.00022	.00068	.00029	.00078	.01024
%RSD	40.449	2.7159	32.313	22.633	49.335
#1	.00039	.02570	.00070	-.00398	.02799
#2	.00070	.02473	.00111	-.00288	.01351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00027**	**.00071**	**.00197**	**-.00013**
Stddev	.00012	.00003	.00026	.00098	.00001
%RSD	26.206	10.805	36.295	49.450	11.529
#1	-.00053	.00029	.00052	.00128	-.00012
#2	-.00037	.00025	.00089	.00266	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368647/1-a Acquired: 7/27/2017 13:00:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00097
Stddev	.00018
%RSD	18.056
#1	.00085
#2	.00110
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3828.8	2457.6	17473.	3225.8
Stddev	9.2	5.8	14.	20.7
%RSD	.24107	.23520	.08201	.64286
#1	3835.3	2461.7	17484.	3240.5
#2	3822.2	2453.5	17463.	3211.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.42%	102.22%	101.89%	103.81%
Range				

Sample Name: lcs 480-368647/2-a Acquired: 7/27/2017 13:04:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04826**	**10.175**	**.19592**	**.21090**	**.19743**
Stddev	.00056	.038	.00184	.00059	.00064
%RSD	1.1517	.37111	.93966	.27914	.32366
#1	.04786	10.202	.19461	.21132	.19788
#2	.04865	10.149	.19722	.21048	.19697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19655**	**9.7752**	**.19927**	**.0239**	**.18758**
Stddev	.00141	.0567	.00017	.0207	.00023
%RSD	.71688	.58038	.08770	86.66	.12498
#1	.19755	9.8153	.19939	.0386	.18775
#2	.19556	9.7351	.19914	.0093	.18742
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20040**	**.19646**	**10.028**	**9.6008**	**.19507**
Stddev	.00237	.00001	.054	.0640	.00035
%RSD	1.1839	.00707	.53579	.66687	.17719
#1	.20207	.19647	10.066	9.6460	.19531
#2	.19872	.19645	9.9901	9.5555	.19482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368647/2-a Acquired: 7/27/2017 13:04:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.109**	**.20644**	**.20100**	**9.5881**	**.19191**
Stddev	.043	.00076	.00064	.0505	.00097
%RSD	.42808	.36577	.31969	.52628	.50343
#1	10.139	.20698	.20146	9.6238	.19123
#2	10.078	.20591	.20055	9.5525	.19259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20115**	**9.7431**	**.19598**	**.19783**	**9.8783**
Stddev	.00137	.0158	.00070	.00298	.0321
%RSD	.67994	.16198	.35560	1.5049	.32510
#1	.20018	9.7542	.19548	.19993	9.9010
#2	.20211	9.7319	.19647	.19572	9.8556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19408**	**.19039**	**.19408**	**.19670**	**.20749**
Stddev	.00104	.00107	.00013	.00196	.00057
%RSD	.53587	.56205	.06606	.99615	.27621
#1	.19335	.19114	.19417	.19532	.20789
#2	.19482	.18963	.19399	.19809	.20708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368647/2-a Acquired: 7/27/2017 13:04:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20648
Stddev	.00094
%RSD	.45421
#1	.20714
#2	.20581
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3621.3	2432.6	17126.	3232.3
Stddev	9.8	2.6	96.	3.9
%RSD	.27023	.10657	.56100	.12018
#1	3628.2	2434.4	17058.	3229.5
#2	3614.4	2430.7	17193.	3235.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.873%	101.18%	99.862%	104.02%
Range				

Sample Name: 480-121312-a-4-b Acquired: 7/27/2017 13:07:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00792**	**.00436**	**.07405**	**.01142**
Stddev	.00044	.02419	.00088	.00021	.00001
%RSD	100.34	305.66	20.237	.28539	.07057
#1	-.00075	.02502	.00373	.07420	.01142
#2	-.00013	-.00919	.00498	.07390	.01143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**52.059**	**.00060**	**.0143**	**.00027**
Stddev	.00003	.274	.00014	.0016	.00014
%RSD	69.205	.52601	23.578	11.31	52.160
#1	-.00002	52.253	.00071	.0131	.00017
#2	-.00006	51.866	.00050	.0154	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00034**	**.01041**	**13.007**	**.00121**
Stddev	.00065	.00073	.00134	.005	.00034
%RSD	120.68	212.44	12.828	.03576	27.911
#1	.00008	-.00017	.01136	13.010	.00145
#2	.00100	.00086	.00947	13.004	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-4-b Acquired: 7/27/2017 13:07:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**145.43**	**.00121**	**.00326**	**12.027**	**-.00003**
Stddev	.31	.00006	.00010	.034	.00025
%RSD	.21077	5.3621	3.1615	.28584	786.43
#1	145.22	.00116	.00333	12.051	.00014
#2	145.65	.00125	.00319	12.003	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	F **112.12**	**.00112**	**.11479**	**2.1096**
Stddev	.00063	.04	.00147	.00046	.0221
%RSD	86.709	.03196	131.73	.39763	1.0474
#1	.00117	112.14	.00008	.11511	2.1253
#2	.00028	112.09	.00216	.11446	2.0940
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.22897**	**.00141**	**.00272**	**.00074**
Stddev	.00042	.00171	.00043	.00027	.00005
%RSD	90.620	.74666	30.599	9.8979	6.4285
#1	-.00017	.23018	.00111	.00253	.00071
#2	-.00075	.22776	.00172	.00291	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-4-b Acquired: 7/27/2017 13:07:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00722**
Stddev	.00004
%RSD	.58627
#1	.00719
#2	.00725
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3315.6**	**2300.8**	**16349.**	**3158.4**
Stddev	3.1	2.3	83.	6.5
%RSD	.09500	.10172	.50508	.20603
#1	3313.4	2299.1	16407.	3153.8
#2	3317.8	2302.4	16290.	3163.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.694%	95.697%	95.332%	101.64%
Range				

Sample Name: 480-121312-a-5-b Acquired: 7/27/2017 13:10:57 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.02011**	**.00247**	**.03017**	**.01350**
Stddev	.00101	.00150	.00082	.00023	.00007
%RSD	312.69	7.4586	33.222	.76876	.52466
#1	.00039	.02117	.00189	.03033	.01345
#2	-.00103	.01905	.00306	.03000	.01355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**21.861**	**.00026**	**.0285**	**.00022**
Stddev	.00002	.008	.00018	.0134	.00019
%RSD	28.395	.03556	67.396	46.89	84.708
#1	.00005	21.867	.00038	.0191	.00009
#2	.00008	21.856	.00014	.0380	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00029**	**.18638**	**2.4174**	**.00047**
Stddev	.00031	.00049	.00326	.0885	.00062
%RSD	116.45	171.23	1.7517	3.6617	132.94
#1	.00005	-.00063	.18407	2.4799	.00091
#2	.00048	.00006	.18869	2.3548	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-5-b Acquired: 7/27/2017 13:10:57 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.443**	**.04032**	**.00016**	**3.4726**	**-.00028**
Stddev	.129	.00026	.00002	.0055	.00002
%RSD	.62895	.65688	13.995	.15960	8.2513
#1	20.352	.04014	.00017	3.4765	-.00030
#2	20.534	.04051	.00014	3.4687	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**20.908**	**-.00058**	**.00497**	**3.1908**
Stddev	.00102	.006	.00074	.00469	.0183
%RSD	90.467	.02792	127.31	94.560	.57378
#1	.00041	20.904	-.00110	.00828	3.2037
#2	.00186	20.912	-.00006	.00165	3.1778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.07778**	**.00167**	**.00218**	**-.00033**
Stddev	.00040	.00010	.00001	.00034	.00011
%RSD	54.329	.12689	.31286	15.675	31.834
#1	-.00045	.07785	.00168	.00242	-.00041
#2	-.00101	.07771	.00167	.00194	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-5-b Acquired: 7/27/2017 13:10:57 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00714
Stddev	.00073
%RSD	10.170
#1	.00766
#2	.00663
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3624.1	2402.4	17103.	3254.3
Stddev	3.7	2.0	144.	7.5
%RSD	.10127	.08286	.83914	.23198
#1	3621.5	2400.9	17204.	3249.0
#2	3626.7	2403.8	17001.	3259.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.946%	99.922%	99.730%	104.73%
Range				

Sample Name: 480-121312-a-6-b Acquired: 7/27/2017 13:14:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.03235**	**.00282**	**.05095**	**.01853**
Stddev	.00013	.01048	.00131	.00076	.00014
%RSD	32.103	32.413	46.390	1.4918	.74586
#1	-.00032	.03976	.00375	.05149	.01863
#2	-.00050	.02493	.00190	.05041	.01844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**58.124**	**.00047**	**.0419**	**.00032**
Stddev	.00003	.177	.00005	.0098	.00002
%RSD	101.65	.30377	9.9048	23.34	6.5093
#1	.00001	58.249	.00043	.0488	.00031
#2	.00005	57.999	.00050	.0350	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00044**	**.10076**	**7.9274**	**-.00011**
Stddev	.00030	.00056	.00460	.0153	.00005
%RSD	141.70	127.39	4.5613	.19356	44.432
#1	.00042	-.00084	.10400	7.9383	-.00015
#2	-.00000	-.00004	.09751	7.9166	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-6-b Acquired: 7/27/2017 13:14:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**114.56**	**.03724**	**.00096**	**14.568**	**.00049**
Stddev	.91	.00025	.00023	.059	.00009
%RSD	.79015	.68095	23.648	.40764	17.687
#1	115.20	.03742	.00080	14.610	.00043
#2	113.92	.03706	.00112	14.526	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	F **115.59**	**.00134**	**.00993**	**2.9170**
Stddev	.00030	.11	.00031	.00132	.0060
%RSD	56.014	.09811	23.207	13.264	.20520
#1	.00075	115.67	.00112	.01086	2.9213
#2	.00033	115.51	.00156	.00899	2.9128
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**.20194**	**.00226**	**.00161**	**-.00139**
Stddev	.00001	.00106	.00042	.00019	.00025
%RSD	.81363	.52378	18.457	11.800	17.893
#1	-.00118	.20269	.00256	.00174	-.00121
#2	-.00117	.20120	.00197	.00147	-.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-6-b Acquired: 7/27/2017 13:14:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00737
Stddev	.00100
%RSD	13.635
#1	.00666
#2	.00808
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3353.3	2310.6	16435.	3182.1
Stddev	3.4	2.8	143.	.9
%RSD	.10040	.12107	.87059	.02779
#1	3350.9	2308.6	16334.	3181.5
#2	3355.6	2312.5	16536.	3182.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.702%	96.104%	95.834%	102.40%
Range				

Sample Name: 480-121312-a-7-b Acquired: 7/27/2017 13:17:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.02902**	**.00441**	**.07919**	**.02901**
Stddev	.00018	.02190	.00084	.00025	.00023
%RSD	19.096	75.447	19.146	.31809	.77891
#1	-.00082	.01354	.00381	.07901	.02917
#2	-.00108	.04451	.00501	.07937	.02885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**113.15**	**.00054**	**.0281**	**.00045**
Stddev	.00013	1.05	.00008	.0037	.00006
%RSD	1989.4	.92448	14.018	13.25	14.020
#1	-.00009	113.89	.00059	.0307	.00050
#2	.00010	112.41	.00049	.0254	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.00100**	**.07534**	**21.567**	**.00282**
Stddev	.00044	.00026	.00121	.213	.00143
%RSD	33.954	26.025	1.5999	.98737	50.742
#1	.00159	.00082	.07619	21.718	.00383
#2	.00098	.00119	.07449	21.417	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-7-b Acquired: 7/27/2017 13:17:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**297.62**	**.01331**	**.00372**	**31.904**	**.00066**
Stddev	.41	.00013	.00011	.243	.00018
%RSD	.13858	.98566	2.9581	.76013	26.874
#1	297.91	.01322	.00364	32.075	.00053
#2	297.33	.01341	.00380	31.732	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	F **311.18**	**.00017**	**.33491**	**3.5926**
Stddev	.00067	.23	.00060	.00212	.0363
%RSD	172.83	.07480	344.39	.63319	1.0107
#1	-.00009	311.34	-.00025	.33341	3.6183
#2	.00086	311.01	.00059	.33641	3.5669
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.45921**	**.00227**	**.00173**	**-.00153**
Stddev	.00005	.00351	.00017	.00072	.00001
%RSD	29.116	.76467	7.3818	41.843	.50586
#1	.00012	.46170	.00216	.00224	-.00153
#2	.00019	.45673	.00239	.00122	-.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-7-b Acquired: 7/27/2017 13:17:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00886
Stddev	.00033
%RSD	3.7379
#1	.00862
#2	.00909
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3136.8	2228.9	15958.	3132.2
Stddev	3.5	4.0	15.	30.7
%RSD	.11032	.17800	.09447	.97988
#1	3134.4	2226.1	15968.	3110.5
#2	3139.3	2231.7	15947.	3153.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.911%	92.707%	93.052%	100.80%
Range				

Sample Name: 480-121241-d-1-c Acquired: 7/27/2017 13:21:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00167**	**.01041**	**.00255**	**.23541**	**.03015**
Stddev	.00091	.00926	.00293	.00084	.00002
%RSD	54.417	88.927	114.88	.35670	.05316
#1	-.00232	.01696	.00048	.23600	.03013
#2	-.00103	.00386	.00463	.23482	.03016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**574.28**	**.00025**	**.0391**	**-.00008**
Stddev	.00004	2.23	.00004	.0015	.00004
%RSD	29.619	.38858	15.089	3.734	54.006
#1	-.00010	575.86	.00028	.0380	-.00005
#2	-.00015	572.70	.00023	.0401	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00560**	**.43197**	**3.6416**	**-.01101**
Stddev	.00021	.00012	.00443	.0497	.00023
%RSD	62.302	2.2297	1.0258	1.3633	2.0455
#1	.00048	-.00569	.43511	3.6065	-.01117
#2	.00019	-.00552	.42884	3.6767	-.01085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-1-c Acquired: 7/27/2017 13:21:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.213**	**.01072**	**.00009**	**53.562**	**.00079**
Stddev	.029	.00001	.00012	.546	.00006
%RSD	.06340	.05165	136.99	1.0201	7.2098
#1	46.234	.01071	.00000	53.175	.00075
#2	46.192	.01072	.00018	53.948	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	F **436.61**	**-.00141**	**-.00411**	**6.8835**
Stddev	.00233	.08	.00131	.00498	.0366
%RSD	597.61	.01734	92.846	121.25	.53145
#1	.00126	436.67	-.00048	-.00059	6.8577
#2	-.00204	436.56	-.00233	-.00763	6.9094
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	F **12.877**	**.00179**	**.00333**	**-.00077**
Stddev	.00043	.113	.00014	.00021	.00004
%RSD	109.58	.87665	7.9708	6.1611	4.5474
#1	-.00070	12.957	.00189	.00319	-.00075
#2	-.00009	12.797	.00169	.00348	-.00080
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-1-c Acquired: 7/27/2017 13:21:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00116
Stddev	.00017
%RSD	14.731
#1	.00104
#2	.00128
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3003.6	2168.3	15676.	3104.6
Stddev	1.4	2.3	7.	10.2
%RSD	.04744	.10709	.04656	.32952
#1	3002.6	2166.7	15671.	3097.4
#2	3004.6	2169.9	15681.	3111.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.348%	90.187%	91.407%	99.913%
Range				

Sample Name: 480-121241-d-2-c Acquired: 7/27/2017 13:24:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.02464**	**.00508**	**.26616**	**.02314**
Stddev	.00008	.01923	.00078	.00000	.00005
%RSD	10.811	78.052	15.412	.00146	.23740
#1	-.00071	.03823	.00453	.26616	.02318
#2	-.00082	.01104	.00564	.26616	.02310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**489.51**	**.00036**	**.0285**	**.00011**
Stddev	.00006	.69	.00003	.0090	.00007
%RSD	486.45	.14170	8.3304	31.71	68.418
#1	-.00006	489.02	.00034	.0221	.00006
#2	.00003	490.00	.00038	.0349	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00439**	**.61812**	**3.4490**	**-.00631**
Stddev	.00025	.00008	.00507	.0024	.00004
%RSD	193.21	1.9194	.82046	.07034	.67768
#1	.00030	-.00445	.62171	3.4507	-.00634
#2	-.00005	-.00433	.61454	3.4473	-.00628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-2-c Acquired: 7/27/2017 13:24:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.198**	**.03640**	**.00017**	**45.692**	**.00131**
Stddev	.139	.00017	.00017	.123	.00028
%RSD	.32938	.45896	100.92	.26876	21.232
#1	42.296	.03652	.00029	45.779	.00112
#2	42.099	.03628	.00005	45.605	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	F **363.16**	**-.00105**	**-.00204**	**7.4674**
Stddev	.00095	.06	.00049	.00025	.0121
%RSD	55.052	.01599	46.410	12.410	.16137
#1	.00239	363.12	-.00071	-.00186	7.4759
#2	.00105	363.20	-.00140	-.00222	7.4588
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	F **11.893**	**.00132**	**.00252**	**-.00063**
Stddev	.00076	.050	.00027	.00038	.00046
%RSD	86.284	.42340	20.579	15.176	73.211
#1	-.00141	11.929	.00151	.00225	-.00031
#2	-.00034	11.857	.00113	.00280	-.00096
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-2-c Acquired: 7/27/2017 13:24:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00031
Stddev	.00015
%RSD	47.612
#1	.00020
#2	.00041
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3063.8	2195.4	15772.	3130.9
Stddev	5.9	2.4	14.	5.8
%RSD	.19161	.11068	.08798	.18374
#1	3068.0	2197.2	15762.	3126.8
#2	3059.7	2193.7	15782.	3134.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.959%	91.316%	91.969%	100.76%
Range				

Sample Name: 480-121241-d-3-c Acquired: 7/27/2017 13:28:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**.01060**	**.00543**	**10.221**	**.00300**
Stddev	.00041	.01708	.00195	.005	.00002
%RSD	36.592	161.14	35.933	.04613	.70090
#1	-.00084	.02268	.00405	10.217	.00298
#2	-.00142	-.00148	.00681	10.224	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**487.12**	**.00047**	**.0487**	**.00008**
Stddev	.00012	2.42	.00019	.0008	.00007
%RSD	1284.4	.49749	40.216	1.673	94.925
#1	-.00009	485.40	.00034	.0493	.00013
#2	.00007	488.83	.00060	.0481	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00439**	**.16592**	**31.604**	**.26086**
Stddev	.00042	.00085	.00289	.013	.00108
%RSD	64.404	19.430	1.7443	.03960	.41302
#1	.00096	-.00379	.16797	31.613	.26010
#2	.00036	-.00500	.16387	31.596	.26162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-3-c Acquired: 7/27/2017 13:28:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**168.83**	**.13281**	**.00034**	**213.16**	**.00014**
Stddev	.98	.00071	.00015	.12	.00028
%RSD	.58030	.53171	44.849	.05560	196.21
#1	168.14	.13231	.00023	213.07	-.00006
#2	169.53	.13331	.00044	213.24	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	F **727.61**	**-.00025**	**-.00155**	**5.1073**
Stddev	.00266	.05	.00083	.00290	.0099
%RSD	140.35	.00743	326.38	186.83	.19393
#1	.00378	727.58	.00033	-.00360	5.1143
#2	.00001	727.65	-.00084	.00050	5.1003
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	F **9.5851**	**.00149**	**.00350**	**-.00158**
Stddev	.00024	.0863	.00071	.00043	.00048
%RSD	70.170	.89995	47.514	12.390	30.563
#1	-.00051	9.5241	.00199	.00381	-.00124
#2	-.00017	9.6461	.00099	.00319	-.00192
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-3-c Acquired: 7/27/2017 13:28:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00138
Stddev	.00022
%RSD	15.921
#1	.00154
#2	.00123
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2902.1	2142.5	15309.	3087.7
Stddev	2.4	3.0	38.	.9
%RSD	.08366	.14190	.24669	.02870
#1	2903.8	2144.6	15336.	3088.3
#2	2900.4	2140.3	15282.	3087.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.632%	89.113%	89.270%	99.368%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 13:31:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51199**	**24.819**	**.49741**	**.51377**	**.49201**
Stddev	.00375	.144	.00429	.00052	.00122
%RSD	.73171	.58005	.86188	.10152	.24866
#1	.51464	24.920	.49438	.51414	.49288
#2	.50934	24.717	.50044	.51340	.49115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49645**	**24.558**	**.49676**	**.0171**	**.49110**
Stddev	.00079	.048	.00055	.0260	.00040
%RSD	.15867	.19566	.11037	152.1	.08068
#1	.49700	24.592	.49638	-.0013	.49138
#2	.49589	24.524	.49715	.0355	.49082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51193**	**.49668**	**23.856**	**24.243**	**.49456**
Stddev	.00259	.00059	.027	.033	.00385
%RSD	.50662	.11857	.11220	.13499	.77886
#1	.51376	.49710	23.875	24.266	.49728
#2	.51010	.49626	23.837	24.219	.49183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 13:31:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.909**	**.51065**	**.50562**	**24.487**	**.49659**
Stddev	.117	.00200	.00025	.054	.00037
%RSD	.47070	.39145	.04912	.22243	.07401
#1	24.992	.51206	.50544	24.525	.49685
#2	24.826	.50924	.50580	24.448	.49633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49587**	**24.713**	**.49499**	**.50131**	**23.880**
Stddev	.00297	.029	.00166	.00061	.074
%RSD	.59865	.11765	.33463	.12228	.31071
#1	.49797	24.692	.49382	.50088	23.933
#2	.49377	24.734	.49616	.50175	23.828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50185**	**.48213**	**.49568**	**.49301**	**.51461**
Stddev	.00083	.00068	.00192	.00122	.00282
%RSD	.16485	.14039	.38766	.24650	.54868
#1	.50244	.48261	.49704	.49387	.51661
#2	.50127	.48165	.49432	.49215	.51262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 13:31:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51229
Stddev	.00246
%RSD	.48110
#1	.51403
#2	.51055
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3404.4	2367.9	16574.	3196.5
Stddev	1.0	2.8	42.	7.0
%RSD	.02968	.11705	.25591	.21930
#1	3403.7	2369.8	16544.	3201.5
#2	3405.1	2365.9	16604.	3191.6

Sample Name: CCB-4130963 Acquired: 7/27/2017 13:34:49 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	**.00801**	**.00150**	**.00903**	**-.00001**
Stddev	.00077	.01681	.00158	.00063	.00004
%RSD	60.340	209.93	105.57	6.9425	458.73
#1	-.00181	-.00388	.00261	.00948	.00002
#2	-.00073	.01990	.00038	.00859	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.01721**	**.00007**	**.0285**	**.00019**
Stddev	.00005	.00053	.00004	.0392	.00011
%RSD	140.12	3.0940	50.771	137.6	56.783
#1	.00000	.01759	.00005	.0562	.00011
#2	.00008	.01683	.00010	.0008	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00023**	**-.00122**	**.07331**	**-.00030**
Stddev	.00023	.00033	.00051	.02882	.00046
%RSD	130.56	142.19	42.254	39.319	154.12
#1	.00034	-.00046	-.00085	.05293	.00003
#2	.00001	.00000	-.00158	.09369	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 13:34:49 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.00001**	**-.00002**	**.03424**	**.00043**
Stddev	.00324	.00009	.00009	.00495	.00023
%RSD	232.34	988.20	402.40	14.454	53.746
#1	.00090	.00007	.00004	.03074	.00027
#2	-.00368	-.00005	-.00009	.03774	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.04692**	**-.00006**	**-.00107**	**.01665**
Stddev	.00060	.00025	.00229	.00044	.01161
%RSD	98.797	.52282	3561.3	41.286	69.738
#1	.00018	.04710	-.00168	-.00076	.00844
#2	.00103	.04675	.00155	-.00138	.02486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00032**	**.00017**	**.00232**	**-.00088**
Stddev	.00040	.00007	.00020	.00113	.00037
%RSD	121.99	22.284	121.51	48.859	42.524
#1	-.00004	.00027	.00002	.00312	-.00115
#2	-.00061	.00037	.00031	.00152	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 13:34:49 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00013**
Stddev	.00015
%RSD	116.23
#1	-.00002
#2	-.00023
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3760.5**	**2412.8**	**17151.**	**3179.3**
Stddev	8.8	5.2	67.	21.7
%RSD	.23306	.21592	.38856	.68239
#1	3754.3	2409.1	17104.	3194.6
#2	3766.7	2416.4	17198.	3164.0

Sample Name: CCVL-4147888 Acquired: 7/27/2017 13:38:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00586**	**.17719**	**.01623**	**.02594**	**.00204**
Stddev	.00013	.01916	.00116	.00057	.00002
%RSD	2.2549	10.812	7.1747	2.1950	.75763
#1	.00577	.19074	.01706	.02635	.00205
#2	.00595	.16365	.01541	.02554	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00216**	**.50221**	**.00208**	**.0063**	**.00401**
Stddev	.00002	.00593	.00004	.0047	.00007
%RSD	1.0287	1.1801	1.6892	74.34	1.8684
#1	.00214	.49802	.00211	.0096	.00407
#2	.00217	.50640	.00206	.0030	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00418**	**.00952**	**.04783**	**.52610**	**.02912**
Stddev	.00084	.00065	.00194	.01048	.00127
%RSD	20.031	6.8157	4.0489	1.9911	4.3557
#1	.00477	.00997	.04920	.51869	.02822
#2	.00359	.00906	.04646	.53351	.03002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 13:38:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19850**	**.00297**	**.00998**	**.99936**	**.00983**
Stddev	.00245	.00001	.00001	.01176	.00008
%RSD	1.2328	.23755	.06699	1.1772	.83377
#1	.20023	.00296	.00999	.99104	.00989
#2	.19677	.00297	.00998	1.0077	.00977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00973**	**.22354**	**.01953**	**.02135**	**.50391**
Stddev	.00039	.00045	.00148	.00051	.02269
%RSD	4.0419	.20260	7.5675	2.3962	4.5030
#1	.00945	.22386	.01849	.02099	.48787
#2	.01001	.22322	.02058	.02171	.51996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00876**	**.00499**	**.00517**	**.02196**	**.00520**
Stddev	.00017	.00005	.00046	.00077	.00019
%RSD	1.9263	1.0525	8.9262	3.5289	3.7292
#1	.00888	.00502	.00485	.02251	.00506
#2	.00864	.00495	.00550	.02141	.00533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 13:38:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01100
Stddev	.00035
%RSD	3.1813
#1	.01075
#2	.01125
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3756.2	2424.5	17159.	3158.6
Stddev	2.5	3.4	32.	13.5
%RSD	.06693	.14115	.18569	.42758
#1	3754.5	2422.1	17136.	3168.2
#2	3758.0	2427.0	17181.	3149.1

Sample Name: 480-121241-d-4-g Acquired: 7/27/2017 13:41:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.02346**	**.00366**	**3.3891**	**.00391**
Stddev	.00001	.00192	.00473	.0016	.00003
%RSD	2.0694	8.1962	129.05	.04797	.88441
#1	-.00045	.02482	.00032	3.3902	.00388
#2	-.00043	.02210	.00701	3.3879	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**554.40**	**.00025**	**.0497**	**-.00007**
Stddev	.00004	.83	.00005	.0056	.00005
%RSD	63.556	.14975	21.600	11.23	71.393
#1	-.00010	554.99	.00021	.0536	-.00010
#2	-.00004	553.81	.00029	.0457	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**-.00496**	**.51883**	**24.388**	**.04416**
Stddev	.00031	.00126	.00070	.083	.00067
%RSD	45.526	25.402	.13435	.34192	1.5128
#1	.00089	-.00585	.51932	24.447	.04464
#2	.00046	-.00407	.51834	24.329	.04369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-g Acquired: 7/27/2017 13:41:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.592**	**.02594**	**-.00011**	**35.669**	**.00039**
Stddev	.206	.00013	.00017	.094	.00021
%RSD	.31923	.50429	152.84	.26490	54.401
#1	64.447	.02585	-.00023	35.736	.00054
#2	64.738	.02603	.00001	35.602	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	F **500.09**	**.00057**	**-.00472**	**7.2529**
Stddev	.00005	.04	.00191	.00589	.0257
%RSD	4.6137	.00737	336.23	124.82	.35435
#1	.00110	500.11	-.00078	-.00055	7.2710
#2	.00117	500.06	.00192	-.00888	7.2347
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	F **10.926**	**.00115**	**.00241**	**-.00114**
Stddev	.00041	.001	.00031	.00044	.00071
%RSD	32.718	.01338	26.723	18.255	62.280
#1	-.00097	10.927	.00136	.00272	-.00164
#2	-.00155	10.925	.00093	.00210	-.00064
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-4-g Acquired: 7/27/2017 13:41:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00095
Stddev	.00013
%RSD	14.021
#1	.00105
#2	.00086
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3015.3	2176.8	15590.	3154.6
Stddev	12.2	7.7	46.	14.9
%RSD	.40604	.35436	.29374	.47099
#1	3024.0	2182.3	15623.	3144.1
#2	3006.6	2171.3	15558.	3165.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.661%	90.541%	90.909%	101.52%
Range				

Sample Name: 480-121241-d-4-gSD@5 Acquired: 7/27/2017 13:45:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.01690**	**.00138**	**.59708**	**.00095**
Stddev	.00001	.01703	.00047	.00446	.00004
%RSD	1.8394	100.74	34.342	.74677	3.7233
#1	-.00068	.02895	.00104	.60023	.00093
#2	-.00069	.00486	.00171	.59393	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**102.81**	**.00011**	**.0368**	**.00007**
Stddev	.00000	.88	.00015	.0008	.00015
%RSD	6.1956	.85809	138.14	2.125	201.74
#1	-.00005	103.43	.00000	.0362	.00018
#2	-.00005	102.19	.00021	.0373	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.00086**	**.09388**	**4.4419**	**.00542**
Stddev	.00030	.00102	.00043	.0856	.00010
%RSD	86.974	118.07	.45533	1.9268	1.9109
#1	.00056	-.00158	.09418	4.5024	.00535
#2	.00013	-.00014	.09357	4.3814	.00550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-gSD@5 Acquired: 7/27/2017 13:45:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.585**	**.00476**	**-.00017**	**6.3376**	**.00060**
Stddev	.015	.00003	.00002	.0546	.00072
%RSD	.12858	.72991	11.855	.86076	118.44
#1	11.574	.00473	-.00016	6.3762	.00111
#2	11.595	.00478	-.00018	6.2990	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**83.377**	**.00016**	**.00118**	**1.2871**
Stddev	.00101	.636	.00029	.00136	.0032
%RSD	295.28	.76253	181.69	114.94	.25227
#1	-.00037	83.827	-.00005	.00214	1.2894
#2	.00106	82.928	.00037	.00022	1.2848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**2.0153**	**-.00049**	**.00302**	**-.00009**
Stddev	.00062	.0184	.00056	.00077	.00059
%RSD	1155.4	.91120	115.50	25.522	637.42
#1	-.00049	2.0283	-.00088	.00247	.00033
#2	.00039	2.0023	-.00009	.00356	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-gSD@5 Acquired: 7/27/2017 13:45:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00046
Stddev	.00061
%RSD	133.42
#1	.00003
#2	.00089
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3438.1	2319.5	16456.	3145.8
Stddev	.9	2.7	65.	7.8
%RSD	.02570	.11610	.39762	.24679
#1	3437.5	2321.4	16503.	3140.4
#2	3438.7	2317.6	16410.	3151.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.972%	96.478%	95.959%	101.24%
Range				

Sample Name: 480-121241-d-4-g PDS Acquired: 7/27/2017 13:48:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05055	9.9663	.20835	3.5782	.19904
Stddev	.00074	.1014	.00126	.0020	.00137
%RSD	1.4570	1.0176	.60642	.05593	.68809
#1	.05108	10.038	.20746	3.5796	.20001
#2	.05003	9.8946	.20924	3.5768	.19807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19461	566.65	.20820	.0372	.19235
Stddev	.00014	.55	.00013	.0124	.00033
%RSD	.07350	.09654	.06228	33.42	.17140
#1	.19471	567.04	.20830	.0284	.19259
#2	.19451	566.26	.20811	.0459	.19212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19607	.19525	10.229	34.794	.24996
Stddev	.00006	.00262	.015	.046	.00059
%RSD	.03132	1.3419	.14305	.13107	.23584
#1	.19611	.19710	10.239	34.761	.24954
#2	.19602	.19340	10.219	34.826	.25037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-g PDS Acquired: 7/27/2017 13:48:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**74.393**	**.22156**	**.19611**	**46.204**	**.19438**
Stddev	.474	.00200	.00044	.032	.00022
%RSD	.63724	.90299	.22682	.06903	.11515
#1	74.728	.22297	.19580	46.226	.19423
#2	74.058	.22014	.19643	46.181	.19454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20504**	F **505.73**	**.21040**	**.21719**	**17.125**
Stddev	.00023	.03	.00032	.00050	.004
%RSD	.11010	.00505	.14984	.23220	.02319
#1	.20488	505.75	.21018	.21755	17.128
#2	.20520	505.71	.21062	.21683	17.122
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20208**	F **11.195**	**.19446**	**.19163**	**.20411**
Stddev	.00052	.076	.00049	.00022	.00201
%RSD	.25750	.67957	.25397	.11411	.98672
#1	.20245	11.249	.19481	.19148	.20553
#2	.20172	11.141	.19411	.19178	.20268
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-4-g PDS Acquired: 7/27/2017 13:48:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.19487
Stddev	.00207
%RSD	1.0602
#1	.19633
#2	.19341
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2982.9	2181.9	15615.	3107.7
Stddev	3.0	.9	91.	17.7
%RSD	.10001	.04023	.58365	.56907
#1	2985.0	2182.5	15551.	3095.2
#2	2980.8	2181.3	15679.	3120.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.795%	90.752%	91.053%	100.01%
Range				

Sample Name: 480-121241-d-4-h ms Acquired: 7/27/2017 13:51:56 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05003**	**10.261**	**.21045**	**3.7590**	**.19574**
Stddev	.00004	.001	.00125	.0018	.00050
%RSD	.07570	.00499	.59353	.04812	.25699
#1	.05000	10.260	.20957	3.7577	.19538
#2	.05006	10.261	.21134	3.7602	.19609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19255**	**591.13**	**.20729**	**.0405**	**.19202**
Stddev	.00054	.82	.00017	.0252	.00002
%RSD	.27885	.13838	.08018	62.11	.00921
#1	.19217	591.71	.20741	.0583	.19203
#2	.19293	590.56	.20718	.0227	.19200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19217**	**.19271**	**10.136**	**35.668**	**.24942**
Stddev	.00033	.00013	.001	.064	.00084
%RSD	.16961	.06837	.01374	.17825	.33703
#1	.19194	.19262	10.137	35.713	.24882
#2	.19240	.19280	10.135	35.623	.25001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-h ms Acquired: 7/27/2017 13:51:56 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**77.357**	**.22294**	**.19976**	**47.646**	**.19584**
Stddev	.119	.00059	.00055	.005	.00106
%RSD	.15340	.26404	.27603	.00996	.54197
#1	77.273	.22252	.20015	47.643	.19509
#2	77.441	.22335	.19937	47.650	.19659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20282**	F **528.35**	**.20256**	**.20897**	**17.609**
Stddev	.00002	.76	.00116	.00205	.018
%RSD	.01220	.14420	.57476	.98232	.10476
#1	.20283	528.89	.20339	.21042	17.622
#2	.20280	527.82	.20174	.20752	17.596
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20232**	F **11.679**	**.19220**	**.18939**	**.20539**
Stddev	.00046	.138	.00014	.00152	.00084
%RSD	.22926	1.1842	.07471	.80443	.40903
#1	.20199	11.777	.19210	.18831	.20598
#2	.20264	11.582	.19230	.19047	.20480
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-4-h ms Acquired: 7/27/2017 13:51:56 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.19308
Stddev	.00014
%RSD	.07068
#1	.19317
#2	.19298
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2960.0	2167.6	15631.	3106.8
Stddev	2.7	2.0	104.	10.4
%RSD	.09010	.09066	.66385	.33625
#1	2961.9	2169.0	15705.	3099.4
#2	2958.1	2166.2	15558.	3114.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.181%	90.159%	91.148%	99.981%
Range				

Sample Name: 480-121241-d-4-i msd Acquired: 7/27/2017 13:55:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04981**	**10.046**	**.20834**	**3.7936**	**.19278**
Stddev	.00054	.018	.00109	.0027	.00064
%RSD	1.0751	.17766	.52411	.07131	.33335
#1	.04943	10.058	.20911	3.7955	.19233
#2	.05019	10.033	.20756	3.7917	.19324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19034**	**564.96**	**.20441**	**.0427**	**.18927**
Stddev	.00131	2.25	.00003	.0155	.00033
%RSD	.68649	.39867	.01415	36.22	.17216
#1	.18942	563.36	.20443	.0318	.18950
#2	.19126	566.55	.20439	.0536	.18904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19019**	**.19057**	**9.9988**	**35.390**	**.24700**
Stddev	.00003	.00187	.0804	.280	.00037
%RSD	.01321	.98301	.80407	.79251	.14986
#1	.19017	.18924	9.9419	35.191	.24674
#2	.19020	.19189	10.056	35.588	.24726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-i msd Acquired: 7/27/2017 13:55:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**75.530**	**.21863**	**.19753**	**47.356**	**.19216**
Stddev	.219	.00036	.00027	.187	.00018
%RSD	.28988	.16588	.13641	.39566	.09587
#1	75.375	.21837	.19734	47.224	.19229
#2	75.685	.21888	.19772	47.489	.19203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20092**	F **510.21**	**.19893**	**.20998**	**17.086**
Stddev	.00107	.19	.00090	.00012	.001
%RSD	.53170	.03654	.45083	.05725	.00698
#1	.20017	510.34	.19956	.21006	17.087
#2	.20168	510.08	.19829	.20989	17.085
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19967**	F **11.170**	**.19036**	**.18764**	**.20138**
Stddev	.00123	.035	.00125	.00230	.00095
%RSD	.61572	.31566	.65552	1.2241	.46980
#1	.20054	11.145	.18948	.18927	.20205
#2	.19880	11.195	.19124	.18602	.20071
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-4-i msd Acquired: 7/27/2017 13:55:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.18974
Stddev	.00157
%RSD	.82907
#1	.18862
#2	.19085
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2967.6	2168.4	15635.	3118.2
Stddev	4.1	3.9	9.	13.3
%RSD	.13745	.18199	.05707	.42602
#1	2964.7	2165.6	15629.	3127.6
#2	2970.5	2171.2	15641.	3108.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.385%	90.191%	91.170%	100.35%
Range				

Sample Name: 480-121241-d-5-c Acquired: 7/27/2017 13:58:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.02729**	**.00326**	**.20522**	**.04038**
Stddev	.00013	.00385	.00041	.00030	.00002
%RSD	19.965	14.091	12.495	.14376	.04382
#1	-.00056	.02457	.00355	.20543	.04040
#2	-.00074	.03001	.00298	.20501	.04037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**346.75**	**.00050**	**.0310**	**.00002**
Stddev	.00006	1.41	.00017	.0461	.00024
%RSD	283.96	.40791	33.178	148.7	1144.9
#1	-.00002	347.75	.00062	.0636	.00019
#2	.00007	345.75	.00038	-.0016	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00099**	**-.00363**	**1.1243**	**3.0490**	**-.00144**
Stddev	.00012	.00103	.0082	.0311	.00005
%RSD	11.734	28.238	.72810	1.0213	3.6042
#1	.00091	-.00291	1.1185	3.0710	-.00148
#2	.00107	-.00436	1.1300	3.0270	-.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-5-c Acquired: 7/27/2017 13:58:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.299**	**.00897**	**.00018**	**29.257**	**.00108**
Stddev	.039	.00001	.00006	.040	.00053
%RSD	.09745	.11784	34.691	.13580	49.566
#1	40.327	.00896	.00023	29.285	.00070
#2	40.272	.00898	.00014	29.229	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00253**	F **226.49**	**-.00030**	**-.00154**	**7.5057**
Stddev	.00031	.23	.00170	.00070	.0094
%RSD	12.312	.10347	574.25	45.488	.12571
#1	.00231	226.66	.00090	-.00104	7.5124
#2	.00275	226.32	-.00150	-.00203	7.4991
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	F **15.303**	**.00130**	**.00200**	**-.00055**
Stddev	.00042	.147	.00004	.00007	.00080
%RSD	486.99	.95837	2.9383	3.2610	145.42
#1	-.00038	15.200	.00133	.00204	.00002
#2	.00021	15.407	.00128	.00195	-.00112
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-5-c Acquired: 7/27/2017 13:58:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00097
Stddev	.00134
%RSD	137.41
#1	.00192
#2	.00003
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3145.1	2224.0	15933.	3151.3
Stddev	2.1	2.3	45.	.5
%RSD	.06836	.10215	.28236	.01742
#1	3146.6	2225.6	15965.	3151.7
#2	3143.6	2222.3	15901.	3150.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.134%	92.502%	92.908%	101.41%
Range				

Sample Name: 480-121241-d-6-c Acquired: 7/27/2017 14:02:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**.06610**	**.00490**	**1.1058**	**.01938**
Stddev	.00085	.00445	.00216	.0010	.00009
%RSD	79.410	6.7308	44.111	.08742	.48049
#1	-.00168	.06925	.00643	1.1051	.01931
#2	-.00047	.06295	.00337	1.1064	.01944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**534.61**	**.00029**	**.0533**	**.00004**
Stddev	.00005	.63	.00015	.0015	.00001
%RSD	59.506	.11730	52.490	2.841	22.556
#1	-.00005	535.05	.00039	.0523	.00003
#2	-.00013	534.16	.00018	.0544	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00142**	**-.00510**	**5.3494**	**6.7220**	**.02903**
Stddev	.00020	.00070	.0066	.0129	.00128
%RSD	14.078	13.725	.12430	.19217	4.3942
#1	.00128	-.00559	5.3447	6.7129	.02813
#2	.00156	-.00460	5.3541	6.7312	.02993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-6-c Acquired: 7/27/2017 14:02:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.825**	**.13761**	**-.00002**	**39.835**	**.00044**
Stddev	.274	.00053	.00007	.045	.00013
%RSD	.39808	.38598	303.48	.11273	29.066
#1	68.631	.13723	-.00007	39.803	.00053
#2	69.019	.13798	.00003	39.867	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00220**	F **494.51**	**-.00101**	**-.00115**	**6.0067**
Stddev	.00022	.28	.00048	.00077	.0096
%RSD	10.061	.05730	47.523	67.244	.15929
#1	-.00204	494.71	-.00067	-.00060	6.0135
#2	-.00236	494.31	-.00135	-.00169	5.9999
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**8.1678**	**.00156**	**.00211**	**-.00083**
Stddev	.00030	.0641	.00026	.00096	.00010
%RSD	85.112	.78443	16.836	45.456	12.186
#1	-.00014	8.1225	.00138	.00143	-.00076
#2	-.00057	8.2131	.00175	.00279	-.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-6-c Acquired: 7/27/2017 14:02:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00215
Stddev	.00089
%RSD	41.603
#1	.00152
#2	.00278
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3024.0	2176.8	15608.	3130.8
Stddev	6.2	1.7	50.	16.1
%RSD	.20651	.07905	.32282	.51525
#1	3019.6	2175.6	15643.	3142.2
#2	3028.4	2178.0	15572.	3119.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.893%	90.542%	91.012%	100.76%
Range				

Sample Name: 480-121241-d-7-c Acquired: 7/27/2017 14:05:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.02430**	**.00602**	**.29679**	**.02338**
Stddev	.00060	.03167	.00207	.00008	.00007
%RSD	84.449	130.31	34.461	.02731	.28348
#1	-.00028	.04670	.00455	.29673	.02333
#2	-.00113	.00191	.00749	.29685	.02343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**359.55**	**.00022**	**.0406**	**.00002**
Stddev	.00010	2.59	.00008	.0237	.00018
%RSD	250.38	.71906	34.567	58.35	977.33
#1	.00003	357.72	.00028	.0238	.00014
#2	-.00011	361.38	.00017	.0573	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**-.00354**	**2.2083**	**3.3736**	**.00174**
Stddev	.00007	.00004	.0208	.0184	.00064
%RSD	9.2419	1.1639	.94264	.54497	36.567
#1	.00071	-.00357	2.2230	3.3866	.00220
#2	.00081	-.00351	2.1936	3.3606	.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-7-c Acquired: 7/27/2017 14:05:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.576**	**.02599**	**.00259**	**15.242**	**.00010**
Stddev	.043	.00003	.00008	.011	.00056
%RSD	.11356	.12483	3.2606	.07321	542.90
#1	37.606	.02601	.00265	15.234	-.00029
#2	37.546	.02596	.00253	15.250	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	F **280.31**	**.00033**	**-.00047**	**7.6250**
Stddev	.00049	.46	.00051	.00125	.0433
%RSD	23.024	.16536	156.71	269.03	.56826
#1	.00249	279.98	.00069	.00042	7.6557
#2	.00179	280.63	-.00004	-.00135	7.5944
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	F **17.810**	**.00192**	**.00281**	**-.00011**
Stddev	.00026	.046	.00040	.00163	.00004
%RSD	106.06	.25719	20.977	57.948	34.260
#1	-.00043	17.842	.00220	.00396	-.00009
#2	-.00006	17.777	.00163	.00166	-.00014
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-7-c Acquired: 7/27/2017 14:05:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00230
Stddev	.00054
%RSD	23.439
#1	.00192
#2	.00268
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3156.2	2226.7	15945.	3166.3
Stddev	1.6	3.9	24.	7.1
%RSD	.05166	.17733	.15270	.22579
#1	3157.3	2229.5	15928.	3171.3
#2	3155.0	2223.9	15962.	3161.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.430%	92.615%	92.979%	101.90%
Range				

Sample Name: 480-121297-b-1-c Acquired: 7/27/2017 14:09:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.05433**	**.02784**	**.08430**	**.08138**
Stddev	.00064	.01249	.00029	.00080	.00003
%RSD	941.16	22.986	1.0309	.94960	.04278
#1	.00038	.04550	.02764	.08487	.08135
#2	-.00052	.06316	.02804	.08374	.08140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**134.48**	**.00036**	**.0448**	**.00059**
Stddev	.00006	.06	.00021	.0103	.00020
%RSD	491.91	.04129	57.673	22.96	33.743
#1	.00003	134.44	.00051	.0375	.00073
#2	-.00006	134.52	.00022	.0521	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**-.00071**	**3.4793**	**2.2290**	**.01893**
Stddev	.00044	.00025	.0133	.0076	.00201
%RSD	85.718	35.733	.38192	.34049	10.637
#1	.00083	-.00089	3.4699	2.2237	.01750
#2	.00020	-.00053	3.4887	2.2344	.02035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121297-b-1-c Acquired: 7/27/2017 14:09:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.619**	**.06145**	**.00326**	**15.704**	**.00122**
Stddev	.139	.00020	.00003	.018	.00029
%RSD	.21536	.32987	.94016	.11299	23.607
#1	64.521	.06131	.00328	15.717	.00143
#2	64.718	.06160	.00324	15.692	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00236**	**21.399**	**.00023**	**-.00466**	**11.127**
Stddev	.00001	.065	.00049	.00250	.011
%RSD	.29908	.30545	210.46	53.742	.09974
#1	.00236	21.445	-.00011	-.00289	11.119
#2	.00237	21.353	.00058	-.00643	11.135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.50824**	**.00166**	**.00343**	**-.00065**
Stddev	.00010	.00136	.00019	.00000	.00047
%RSD	28.338	.26668	11.213	.11116	72.446
#1	-.00029	.50920	.00153	.00343	-.00032
#2	-.00044	.50729	.00180	.00343	-.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121297-b-1-c Acquired: 7/27/2017 14:09:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00400**
Stddev	.00056
%RSD	14.073
#1	.00360
#2	.00440
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3317.2**	**2304.2**	**16439.**	**3207.4**
Stddev	10.5	4.3	32.	9.3
%RSD	.31603	.18603	.19165	.28922
#1	3324.6	2307.3	16461.	3200.8
#2	3309.8	2301.2	16417.	3214.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.737%	95.841%	95.859%	103.22%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:12:41 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50480**	**24.832**	**.49901**	**.50557**	**.49219**
Stddev	.00610	.007	.00079	.00055	.00147
%RSD	1.2087	.02723	.15798	.10933	.29958
#1	.50911	24.837	.49957	.50596	.49323
#2	.50048	24.827	.49846	.50518	.49115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49628**	**24.565**	**.49746**	**.0101**	**.49224**
Stddev	.00031	.011	.00036	.0202	.00007
%RSD	.06170	.04322	.07153	199.1	.01517
#1	.49606	24.557	.49771	-.0041	.49218
#2	.49650	24.572	.49721	.0244	.49229
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50956**	**.49543**	**23.840**	**24.347**	**.49589**
Stddev	.00448	.00171	.029	.015	.00124
%RSD	.87923	.34460	.12032	.06123	.25070
#1	.51273	.49664	23.861	24.337	.49501
#2	.50639	.49422	23.820	24.358	.49677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:12:41 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.880**	**.51033**	**.50547**	**24.607**	**.49800**
Stddev	.142	.00274	.00013	.003	.00008
%RSD	.57206	.53631	.02612	.01184	.01665
#1	24.981	.51227	.50556	24.605	.49794
#2	24.779	.50840	.50538	24.609	.49806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49577**	**24.691**	**.49483**	**.49989**	**23.880**
Stddev	.00214	.009	.00003	.00420	.003
%RSD	.43074	.03532	.00620	.84101	.01385
#1	.49728	24.697	.49485	.50287	23.878
#2	.49426	24.685	.49481	.49692	23.883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50328**	**.48315**	**.49777**	**.49646**	**.51056**
Stddev	.00062	.00119	.00325	.00383	.00324
%RSD	.12333	.24665	.65299	.77154	.63378
#1	.50372	.48230	.50007	.49375	.51285
#2	.50284	.48399	.49547	.49917	.50827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:12:41 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51005**
Stddev	.00487
%RSD	.95448
#1	.51349
#2	.50661
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3400.9**	**2367.9**	**16687.**	**3188.2**
Stddev	9.3	7.7	68.	6.6
%RSD	.27235	.32452	.40648	.20808
#1	3394.3	2362.5	16640.	3183.5
#2	3407.4	2373.3	16735.	3192.9

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:15:51 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.00822**	**.00187**	**.00406**	**.00005**
Stddev	.00057	.03527	.00064	.00014	.00001
%RSD	170.41	429.25	34.158	3.3977	18.130
#1	-.00073	.01673	.00232	.00416	.00004
#2	.00007	-.03316	.00142	.00396	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.01391**	**.00010**	**.0157**	**.00012**
Stddev	.00012	.00278	.00005	.0003	.00002
%RSD	170.32	19.976	54.771	1.666	15.053
#1	.00016	.01195	.00006	.0159	.00013
#2	-.00001	.01588	.00013	.0155	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00049**	**.00070**	**.06814**	**-.00154**
Stddev	.00028	.00130	.00157	.01582	.00159
%RSD	131.91	263.79	223.50	23.210	103.34
#1	.00041	.00043	-.00041	.07933	-.00267
#2	.00001	-.00141	.00181	.05696	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:15:51 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00359**	**.00011**	**.00003**	**.02853**	**.00017**
Stddev	.00026	.00000	.00007	.00202	.00008
%RSD	7.2650	.72416	201.93	7.0980	46.125
#1	.00378	.00011	.00008	.02996	.00012
#2	.00341	.00011	-.00001	.02709	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.04770**	**.00076**	**-.00155**	**.01854**
Stddev	.00021	.00872	.00186	.00039	.01215
%RSD	25.314	18.284	245.05	25.288	65.529
#1	.00099	.04153	-.00056	-.00183	.02713
#2	.00069	.05387	.00207	-.00127	.00995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00040**	**.00021**	**.00220**	**-.00029**
Stddev	.00007	.00006	.00002	.00057	.00055
%RSD	84.888	16.155	8.7632	26.130	187.82
#1	-.00014	.00044	.00020	.00260	.00010
#2	-.00003	.00035	.00022	.00179	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:15:51 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00024**
Stddev	.00009
%RSD	35.948
#1	-.00018
#2	-.00030
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3737.0**	**2401.7**	**16941.**	**3153.0**
Stddev	1.1	.4	87.	12.2
%RSD	.02977	.01873	.51442	.38651
#1	3737.8	2401.4	17003.	3144.3
#2	3736.2	2402.0	16880.	3161.6

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:19:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**.21768**	**.01616**	**.02316**	**.00205**
Stddev	.00100	.01203	.00092	.00026	.00002
%RSD	18.547	5.5279	5.6833	1.1143	.89935
#1	.00470	.22619	.01681	.02335	.00203
#2	.00612	.20917	.01551	.02298	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.50861**	**.00212**	**.0137**	**.00397**
Stddev	.00009	.00288	.00001	.0129	.00000
%RSD	4.1013	.56656	.46512	93.92	.08095
#1	.00217	.50657	.00212	.0046	.00397
#2	.00204	.51065	.00213	.0229	.00398
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00471**	**.00937**	**.04758**	**.46475**	**.02906**
Stddev	.00030	.00009	.00073	.00612	.00085
%RSD	6.3134	.98346	1.5295	1.3166	2.9155
#1	.00450	.00931	.04707	.46042	.02966
#2	.00492	.00944	.04810	.46907	.02846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:19:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19565**	**.00310**	**.01001**	**.98951**	**.00998**
Stddev	.00288	.00005	.00014	.00453	.00025
%RSD	1.4709	1.4756	1.4120	.45763	2.4875
#1	.19361	.00307	.01011	.99271	.00980
#2	.19768	.00313	.00991	.98631	.01015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01054**	**.22068**	**.01926**	**.02420**	**.50743**
Stddev	.00003	.00225	.00017	.00238	.02380
%RSD	.31712	1.0199	.88421	9.8343	4.6912
#1	.01052	.22227	.01938	.02589	.49059
#2	.01056	.21909	.01914	.02252	.52426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00910**	**.00500**	**.00512**	**.02208**	**.00490**
Stddev	.00035	.00014	.00022	.00164	.00011
%RSD	3.8383	2.8737	4.3527	7.4455	2.1831
#1	.00885	.00490	.00496	.02324	.00498
#2	.00934	.00510	.00528	.02091	.00483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:19:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01085**
Stddev	.00047
%RSD	4.2976
#1	.01118
#2	.01052
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3760.5**	**2425.4**	**17112.**	**3185.8**
Stddev	2.9	5.1	18.	10.0
%RSD	.07604	.21064	.10435	.31502
#1	3758.4	2421.8	17099.	3192.9
#2	3762.5	2429.0	17124.	3178.7

Sample Name: 480-121297-o-7-c Acquired: 7/27/2017 14:22:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.03074**	**.00701**	**.04626**	**.15478**
Stddev	.00008	.00448	.00070	.00004	.00009
%RSD	13.561	14.564	9.9396	.07749	.05665
#1	-.00054	.02758	.00651	.04629	.15485
#2	-.00065	.03391	.00750	.04624	.15472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**170.64**	**.00049**	**.0323**	**.00035**
Stddev	.00002	2.29	.00004	.0082	.00002
%RSD	89.645	1.3408	8.8905	25.35	5.2070
#1	-.00004	172.26	.00052	.0381	.00036
#2	-.00001	169.02	.00046	.0265	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**-.00171**	**2.3237**	**3.1748**	**.02759**
Stddev	.00109	.00108	.0339	.0050	.00035
%RSD	100.95	63.001	1.4590	.15718	1.2775
#1	.00185	-.00247	2.3476	3.1712	.02784
#2	.00031	-.00095	2.2997	3.1783	.02734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121297-o-7-c Acquired: 7/27/2017 14:22:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**77.865**	**.06234**	**.00103**	**52.076**	**.00194**
Stddev	.069	.00007	.00008	.612	.00012
%RSD	.08888	.10660	7.9027	1.1745	6.4035
#1	77.816	.06230	.00097	52.508	.00203
#2	77.914	.06239	.00108	51.644	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**18.480**	**.00015**	**.00012**	**9.0732**
Stddev	.00084	.023	.00212	.00240	.1093
%RSD	650.64	.12669	1450.3	1919.3	1.2044
#1	-.00046	18.464	-.00135	.00182	9.1504
#2	.00072	18.497	.00164	-.00157	8.9959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.55648**	**.00133**	**.00189**	**-.00129**
Stddev	.00014	.00612	.00046	.00076	.00040
%RSD	106.93	1.0991	34.910	40.295	30.851
#1	.00003	.56081	.00165	.00135	-.00158
#2	.00024	.55216	.00100	.00243	-.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121297-o-7-c Acquired: 7/27/2017 14:22:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00191
Stddev	.00008
%RSD	3.9620
#1	.00196
#2	.00185
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3209.9	2270.2	16238.	3175.2
Stddev	4.8	3.2	21.	46.5
%RSD	.14844	.14016	.13006	1.4643
#1	3206.5	2267.9	16223.	3142.3
#2	3213.2	2272.4	16253.	3208.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.866%	94.424%	94.687%	102.18%
Range				

Sample Name: 480-121277-d-1-c Acquired: 7/27/2017 14:26:00 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.03463**	**.00360**	**.02926**	**.15225**
Stddev	.00060	.00117	.00019	.00035	.00049
%RSD	270.24	3.3867	5.2959	1.1868	.32220
#1	-.00064	.03381	.00374	.02902	.15190
#2	.00020	.03546	.00347	.02951	.15260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**94.160**	**.00041**	**.0460**	**-.00012**
Stddev	.00000	.091	.00002	.0213	.00008
%RSD	5.7182	.09709	4.4689	46.42	71.862
#1	-.00001	94.096	.00042	.0611	-.00017
#2	-.00001	94.225	.00040	.0309	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00310**	**.03159**	**1.3844**	**-.00069**
Stddev	.00013	.00004	.00040	.0354	.00094
%RSD	16.673	1.1652	1.2716	2.5588	136.87
#1	.00084	.00308	.03188	1.3594	-.00002
#2	.00066	.00313	.03131	1.4095	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-1-c Acquired: 7/27/2017 14:26:00 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.149**	**.00047**	**.00012**	**47.563**	**.00050**
Stddev	.034	.00001	.00007	.028	.00017
%RSD	.10337	2.5285	57.128	.05906	33.566
#1	33.125	.00047	.00017	47.583	.00061
#2	33.173	.00046	.00007	47.543	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**12.457**	**-.00021**	**-.00532**	**5.5215**
Stddev	.00042	.022	.00091	.00236	.0132
%RSD	37.939	.17319	430.89	44.450	.23936
#1	.00140	12.441	.00043	-.00699	5.5308
#2	.00081	12.472	-.00085	-.00365	5.5121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.17752**	**.00101**	**.00302**	**-.00038**
Stddev	.00019	.00034	.00018	.00190	.00027
%RSD	27.959	.19148	17.351	62.980	69.600
#1	-.00054	.17728	.00114	.00436	-.00019
#2	-.00081	.17776	.00089	.00167	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-1-c Acquired: 7/27/2017 14:26:00 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07599
Stddev	.00014
%RSD	.18255
#1	.07609
#2	.07589
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3355.5	2323.7	16403.	3210.0
Stddev	2.3	1.2	34.	9.7
%RSD	.06953	.05216	.20424	.30271
#1	3357.1	2324.5	16427.	3216.8
#2	3353.8	2322.8	16380.	3203.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.761%	96.649%	95.651%	103.30%
Range				

Sample Name: 480-121277-d-2-c Acquired: 7/27/2017 14:29:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.02127**	**.00171**	**.02994**	**.12584**
Stddev	.00067	.00697	.00147	.00034	.00021
%RSD	2593.4	32.760	85.956	1.1411	.16469
#1	.00050	.01634	.00275	.03019	.12599
#2	-.00045	.02619	.00067	.02970	.12570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**86.492**	**.00040**	**.0135**	**.00012**
Stddev	.00002	.345	.00028	.0038	.00005
%RSD	48.106	.39893	71.279	28.04	44.282
#1	-.00006	86.248	.00020	.0108	.00015
#2	-.00003	86.736	.00060	.0161	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00673**	**.00595**	**1.5612**	**-.00096**
Stddev	.00102	.00010	.00081	.0269	.00003
%RSD	2060.5	1.4126	13.677	1.7214	3.4022
#1	.00077	.00666	.00538	1.5422	-.00099
#2	-.00067	.00679	.00653	1.5802	-.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-2-c Acquired: 7/27/2017 14:29:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.054**	**.00145**	**.00007**	**57.167**	**.00043**
Stddev	.108	.00006	.00013	.334	.00027
%RSD	.33587	3.8252	182.15	.58458	63.344
#1	32.130	.00141	.00016	56.931	.00024
#2	31.978	.00149	-.00002	57.403	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00221**	**10.712**	**-.00088**	**-.00234**	**5.4823**
Stddev	.00075	.012	.00007	.00157	.0212
%RSD	33.917	.11241	7.4436	66.853	.38672
#1	.00168	10.720	-.00093	-.00123	5.4673
#2	.00274	10.703	-.00083	-.00345	5.4972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.17525**	**.00124**	**.00189**	**-.00017**
Stddev	.00040	.00125	.00004	.00094	.00041
%RSD	115.78	.71566	3.0230	49.885	234.24
#1	-.00064	.17436	.00127	.00122	.00011
#2	-.00006	.17614	.00122	.00256	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-2-c Acquired: 7/27/2017 14:29:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.19798
Stddev	.00046
%RSD	.23132
#1	.19765
#2	.19830
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3358.0	2324.7	16524.	3200.4
Stddev	11.4	9.1	40.	14.0
%RSD	.34062	.39191	.24151	.43875
#1	3366.0	2331.2	16496.	3210.3
#2	3349.9	2318.3	16552.	3190.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.827%	96.693%	96.353%	102.99%
Range				

Sample Name: 480-121277-d-3-e Acquired: 7/27/2017 14:32:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.02238**	**.00142**	**.03210**	**.11761**
Stddev	.00090	.00412	.00030	.00002	.00026
%RSD	109.71	18.396	21.299	.07657	.22107
#1	-.00018	.02529	.00163	.03212	.11742
#2	-.00146	.01947	.00120	.03209	.11779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**89.890**	**.00028**	**.0193**	**.00014**
Stddev	.00012	.164	.00007	.0149	.00005
%RSD	360.13	.18240	23.922	77.01	36.866
#1	-.00005	90.006	.00023	.0088	.00011
#2	.00012	89.774	.00033	.0299	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00355**	**.00784**	**1.5373**	**-.00086**
Stddev	.00032	.00013	.00185	.0511	.00097
%RSD	51.428	3.6956	23.644	3.3212	112.21
#1	.00084	.00346	.00916	1.5734	-.00018
#2	.00039	.00364	.00653	1.5012	-.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-3-e Acquired: 7/27/2017 14:32:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.181**	**.00411**	**.00013**	**63.349**	**.00064**
Stddev	.123	.00011	.00010	.837	.00009
%RSD	.38081	2.5835	82.636	1.3207	13.767
#1	32.094	.00403	.00005	63.941	.00070
#2	32.268	.00418	.00020	62.757	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**9.7234**	**.00009**	**-.00318**	**5.6950**
Stddev	.00037	.0138	.00049	.00072	.0069
%RSD	38.037	.14193	576.47	22.757	.12147
#1	.00125	9.7332	.00044	-.00267	5.6999
#2	.00072	9.7137	-.00026	-.00370	5.6901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.20819**	**.00070**	**.00163**	**-.00093**
Stddev	.00003	.00101	.00097	.00007	.00066
%RSD	3.2154	.48691	139.04	4.5140	70.261
#1	-.00104	.20891	.00139	.00168	-.00140
#2	-.00099	.20748	.00001	.00158	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-3-e Acquired: 7/27/2017 14:32:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04128
Stddev	.00041
%RSD	.98630
#1	.04099
#2	.04157
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3335.9	2315.1	16445.	3198.6
Stddev	.9	3.2	46.	3.7
%RSD	.02847	.13722	.27982	.11424
#1	3336.6	2317.3	16477.	3201.2
#2	3335.3	2312.8	16412.	3196.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.238%	96.293%	95.891%	102.94%
Range				

Sample Name: 480-121289-c-11-d Acquired: 7/27/2017 14:36:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**34.519**	**.00375**	**.35070**	**.08867**
Stddev	.00106	.129	.00009	.00138	.00007
%RSD	165.53	.37234	2.4851	.39244	.08033
#1	-.00011	34.610	.00368	.34972	.08872
#2	.00139	34.429	.00381	.35167	.08862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00266**	**8.6671**	**.00035**	**.0928**	**.00775**
Stddev	.00009	.0216	.00006	.0005	.00017
%RSD	3.3160	.24874	17.124	.4863	2.1651
#1	.00260	8.6823	.00040	.0925	.00786
#2	.00272	8.6518	.00031	.0932	.00763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03025**	**.02030**	**15.627**	**2.6567**	**.02160**
Stddev	.00017	.00045	.053	.0189	.00003
%RSD	.55459	2.2068	.34014	.71013	.11736
#1	.03013	.02062	15.665	2.6701	.02158
#2	.03037	.01998	15.590	2.6434	.02162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121289-c-11-d Acquired: 7/27/2017 14:36:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4349**	**.24916**	**.00512**	**270.94**	**.02844**
Stddev	.0244	.00057	.00019	.30	.00060
%RSD	.32853	.22954	3.7408	.11097	2.0993
#1	7.4176	.24876	.00525	271.15	.02801
#2	7.4522	.24957	.00498	270.73	.02886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03892**	**18.878**	**-.00007**	**-.00039**	F **55.920**
Stddev	.00022	.009	.00176	.00084	.206
%RSD	.55939	.04718	2378.1	216.00	.36771
#1	.03908	18.885	.00117	.00020	56.065
#2	.03877	18.872	-.00132	-.00098	55.775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					50.000
Low Limit					-.50000

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00314**	**.28110**	**.13779**	**.00049**	**.01171**
Stddev	.00024	.00084	.00021	.00113	.00033
%RSD	7.6431	.29962	.15490	233.21	2.8532
#1	.00297	.28169	.13794	.00129	.01147
#2	.00331	.28050	.13764	-.00032	.01195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121289-c-11-d Acquired: 7/27/2017 14:36:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.06546
Stddev	.00026
%RSD	.39984
#1	.06565
#2	.06528
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3226.0	2396.5	16636.	3285.0
Stddev	5.4	3.6	39.	27.6
%RSD	.16760	.15093	.23671	.84062
#1	3229.8	2399.1	16663.	3265.5
#2	3222.2	2394.0	16608.	3304.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.297%	99.680%	97.004%	105.72%
Range				

Sample Name: 480-121309-c-1-c Acquired: 7/27/2017 14:39:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.03834**	**.01930**	**6.6849**	**.07904**
Stddev	.00025	.00092	.00141	.0079	.00003
%RSD	39.898	2.3962	7.3200	.11860	.03725
#1	-.00045	.03769	.02030	6.6905	.07906
#2	-.00080	.03898	.01830	6.6793	.07902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**248.48**	**.00067**	**.0593**	**.00510**
Stddev	.00009	.60	.00019	.0093	.00004
%RSD	197.93	.23961	28.523	15.70	.71169
#1	.00011	248.06	.00053	.0527	.00513
#2	-.00002	248.90	.00080	.0659	.00507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01560**	**.00374**	**.28407**	**77.563**	**.13198**
Stddev	.00033	.00060	.00223	.193	.00180
%RSD	2.0995	15.970	.78635	.24819	1.3630
#1	.01537	.00416	.28249	77.427	.13071
#2	.01583	.00331	.28565	77.699	.13325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121309-c-1-c Acquired: 7/27/2017 14:39:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.615**	**1.8531**	**.18741**	**2373.4**	**.01737**
Stddev	.055	.0026	.00065	6.3	.00081
%RSD	.10602	.13979	.34543	.26536	4.6491
#1	51.654	1.8549	.18787	2369.0	.01680
#2	51.576	1.8513	.18696	2377.9	.01794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00436**	F **1530.2**	**.00168**	**.14288**	**13.448**
Stddev	.00017	2.8	.00133	.00321	.051
%RSD	3.9932	.18405	79.141	2.2486	.37739
#1	.00423	1532.2	.00074	.14061	13.412
#2	.00448	1528.2	.00262	.14515	13.484
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**2.4527**	**.02043**	**.00221**	**.02215**
Stddev	.00027	.0105	.00087	.00198	.00081
%RSD	27.822	.42654	4.2664	89.646	3.6444
#1	.00077	2.4453	.02105	.00081	.02273
#2	.00114	2.4601	.01981	.00362	.02158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121309-c-1-c Acquired: 7/27/2017 14:39:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01048**
Stddev	.00009
%RSD	.88758
#1	.01055
#2	.01042
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2538.3**	**2056.7**	**14234.**	**3062.5**
Stddev	3.1	1.2	41.	21.2
%RSD	.12058	.06018	.28929	.69281
#1	2540.5	2057.5	14205.	3077.5
#2	2536.2	2055.8	14263.	3047.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.902%	85.544%	82.999%	98.556%
Range				

Sample Name: 480-121298-c-2-c Acquired: 7/27/2017 14:42:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.04960**	**.18751**	**15.765**	**.67269**
Stddev	.00005	.00707	.00084	.020	.00366
%RSD	13.447	14.244	.44756	.12452	.54422
#1	-.00031	.04461	.18810	15.779	.67528
#2	-.00037	.05460	.18691	15.751	.67010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**95.536**	**.00044**	**.0026**	**.02377**
Stddev	.00002	.208	.00001	.0102	.00010
%RSD	36.969	.21732	3.3376	384.6	.42876
#1	-.00007	95.683	.00043	.0098	.02384
#2	-.00004	95.389	.00045	-.0045	.02370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06579**	**-.00004**	**7.4458**	**388.50**	**.50491**
Stddev	.00025	.00028	.0020	.68	.00019
%RSD	.38686	786.08	.02718	.17606	.03699
#1	.06561	-.00023	7.4473	388.99	.50504
#2	.06597	.00016	7.4444	388.02	.50478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121298-c-2-c Acquired: 7/27/2017 14:42:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.499**	**.12008**	**.01206**	**1431.4**	**.18675**
Stddev	.086	.00017	.00002	.7	.00072
%RSD	.09846	.13878	.18749	.05039	.38635
#1	87.560	.11996	.01207	1431.9	.18726
#2	87.438	.12020	.01204	1430.8	.18624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00625**	**27.746**	**.00307**	**.00148**	**21.820**
Stddev	.00149	.055	.00023	.00012	.037
%RSD	23.888	.19807	7.4412	8.2341	.16962
#1	.00519	27.785	.00323	.00156	21.793
#2	.00731	27.707	.00291	.00139	21.846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.98502**	**.08266**	**.00259**	**.04320**
Stddev	.00135	.00171	.00067	.00111	.00062
%RSD	18.742	.17330	.80817	42.739	1.4433
#1	.00815	.98623	.08219	.00338	.04276
#2	.00624	.98381	.08313	.00181	.04364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121298-c-2-c Acquired: 7/27/2017 14:42:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01252
Stddev	.00014
%RSD	1.1006
#1	.01262
#2	.01243
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2681.4	2095.5	14675.	3127.3
Stddev	.2	1.6	47.	.5
%RSD	.00717	.07593	.31961	.01748
#1	2681.2	2094.3	14642.	3126.9
#2	2681.5	2096.6	14708.	3127.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.728%	87.158%	85.573%	100.64%
Range				

Sample Name: 480-121298-c-1-c Acquired: 7/27/2017 14:46:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**.30791**	**.27610**	F **27.779**	**.46697**
Stddev	.00184	.01870	.00015	.001	.00003
%RSD	160.38	6.0740	.05528	.00334	.00724
#1	-.00245	.29468	.27621	27.779	.46700
#2	.00015	.32113	.27599	27.780	.46695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**28.822**	**.00054**	**-.0074**	**.06188**
Stddev	.00002	.012	.00004	.0274	.00044
%RSD	27.697	.03989	7.7356	368.9	.70396
#1	.00006	28.830	.00057	-.0268	.06157
#2	.00008	28.814	.00051	.0119	.06219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44795**	**.01186**	**3.8158**	F **1103.2**	**3.8282**
Stddev	.00269	.00035	.0176	8.1	.0112
%RSD	.60090	2.9443	.46216	.73820	.29367
#1	.44985	.01211	3.8034	1109.0	3.8362
#2	.44604	.01161	3.8283	1097.5	3.8203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-121298-c-1-c Acquired: 7/27/2017 14:46:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.789**	**.03815**	**.03102**	**2618.9**	**.78198**
Stddev	.011	.00007	.00003	.5	.00119
%RSD	.01287	.17442	.09613	.01743	.15162
#1	84.797	.03820	.03104	2619.2	.78114
#2	84.781	.03810	.03100	2618.5	.78282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02480**	**35.102**	**.01014**	**.01036**	**18.541**
Stddev	.00032	.022	.00021	.00404	.039
%RSD	1.3083	.06231	2.0563	38.993	.20949
#1	.02503	35.117	.01029	.01322	18.514
#2	.02457	35.086	.00999	.00750	18.569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17573**	**.63013**	**.58769**	**-.00078**	**.14870**
Stddev	.00092	.00027	.00176	.00049	.00051
%RSD	.52223	.04221	.29913	62.275	.34034
#1	.17638	.63032	.58894	-.00044	.14834
#2	.17509	.62995	.58645	-.00112	.14906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121298-c-1-c Acquired: 7/27/2017 14:46:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.11019**
Stddev	.00081
%RSD	.73959
#1	.11077
#2	.10962
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2471.5**	**2014.6**	**13750.**	**2975.7**
Stddev	3.4	.2	46.	11.4
%RSD	.13671	.00805	.33222	.38434
#1	2473.9	2014.5	13717.	2983.8
#2	2469.1	2014.7	13782.	2967.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	66.114%	83.793%	80.177%	95.764%
Range				

Sample Name: 480-121298-c-1-c@5 Acquired: 7/27/2017 14:49:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.08200**	**.04982**	**5.4312**	**.09094**
Stddev	.00019	.00436	.00173	.0022	.00022
%RSD	45.900	5.3204	3.4821	.03977	.23645
#1	-.00056	.08509	.04859	5.4297	.09109
#2	-.00029	.07892	.05104	5.4327	.09079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**5.4732**	**.00024**	**.0161**	**.01128**
Stddev	.00013	.0170	.00015	.0095	.00012
%RSD	823.10	.31059	62.092	59.06	1.0215
#1	.00011	5.4852	.00013	.0228	.01119
#2	-.00007	5.4612	.00034	.0094	.01136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08385**	**.00133**	**.72265**	**221.15**	**.71978**
Stddev	.00014	.00091	.00156	.00	.00214
%RSD	.16995	68.372	.21583	.00175	.29711
#1	.08395	.00069	.72154	221.14	.71826
#2	.08375	.00197	.72375	221.15	.72129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121298-c-1-c@5 Acquired: 7/27/2017 14:49:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.047**	**.00725**	**.00593**	**481.06**	**.14248**
Stddev	.024	.00002	.00020	.69	.00001
%RSD	.14926	.26950	3.3531	.14240	.00493
#1	16.030	.00723	.00607	480.57	.14247
#2	16.064	.00726	.00579	481.54	.14248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00599**	**6.2699**	**.00189**	**-.00160**	**3.5555**
Stddev	.00186	.0064	.00085	.00143	.0054
%RSD	30.976	.10252	44.821	89.879	.15063
#1	.00731	6.2744	.00249	-.00058	3.5593
#2	.00468	6.2654	.00129	-.00261	3.5517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03072**	**.11979**	**.11105**	**.00068**	**.02704**
Stddev	.00016	.00013	.00006	.00032	.00008
%RSD	.50603	.10853	.05301	46.785	.29137
#1	.03083	.11969	.11109	.00045	.02710
#2	.03061	.11988	.11100	.00090	.02699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121298-c-1-c@5 Acquired: 7/27/2017 14:49:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02088
Stddev	.00073
%RSD	3.5177
#1	.02036
#2	.02140
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2989.2	2218.0	15535.	3150.5
Stddev	8.6	4.5	24.	6.7
%RSD	.28723	.20350	.15488	.21191
#1	2983.1	2214.8	15552.	3155.2
#2	2995.2	2221.2	15518.	3145.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.962%	92.253%	90.588%	101.39%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:53:21 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51666**	**24.852**	**.49882**	**.53806**	**.49225**
Stddev	.00395	.024	.00200	.00140	.00134
%RSD	.76394	.09728	.39998	.26098	.27217
#1	.51387	24.870	.50023	.53905	.49319
#2	.51945	24.835	.49741	.53707	.49130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49584**	**24.537**	**.49836**	**-.0122**	**.49085**
Stddev	.00066	.040	.00069	.0178	.00066
%RSD	.13333	.16193	.13903	145.7	.13511
#1	.49631	24.566	.49885	-.0248	.49132
#2	.49537	24.509	.49787	.0004	.49038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51649**	**.49551**	**23.831**	**24.548**	**.49410**
Stddev	.00010	.00294	.140	.204	.00185
%RSD	.01847	.59315	.58537	.83012	.37391
#1	.51656	.49759	23.930	24.692	.49540
#2	.51642	.49343	23.732	24.404	.49279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:53:21 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.871**	**.51129**	**.50811**	**24.640**	**.49639**
Stddev	.054	.00086	.00019	.086	.00087
%RSD	.21669	.16855	.03652	.34989	.17476
#1	24.909	.51190	.50824	24.701	.49701
#2	24.833	.51068	.50798	24.579	.49578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49400**	**24.697**	**.49559**	**.50635**	**24.259**
Stddev	.00048	.023	.00073	.00274	.128
%RSD	.09709	.09368	.14692	.54164	.52593
#1	.49366	24.681	.49507	.50441	24.349
#2	.49434	24.714	.49610	.50829	24.168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50242**	**.48145**	**.49571**	**.49148**	**.51962**
Stddev	.00035	.00265	.00186	.00222	.00133
%RSD	.06950	.55025	.37438	.45127	.25537
#1	.50266	.48333	.49702	.48991	.51868
#2	.50217	.47958	.49440	.49305	.52055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:53:21 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51548**
Stddev	.00008
%RSD	.01610
#1	.51553
#2	.51542
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3407.9**	**2367.0**	**16518.**	**3148.8**
Stddev	6.5	4.1	33.	.3
%RSD	.19024	.17229	.19899	.00894
#1	3403.3	2364.1	16495.	3149.0
#2	3412.5	2369.9	16541.	3148.6

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:56:31 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00134**	**.00173**	F **.02681**	**.00018**
Stddev	.00083	.00837	.00120	.00086	.00023
%RSD	376.55	624.71	69.285	3.1934	126.58
#1	-.00081	-.00458	.00257	.02741	.00002
#2	.00037	.00726	.00088	.02620	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00674**	**-.00001**	**.0299**	**.00023**
Stddev	.00002	.00379	.00008	.0148	.00007
%RSD	42.004	56.248	769.34	49.40	29.594
#1	.00004	.00942	.00005	.0403	.00027
#2	.00008	.00406	-.00007	.0195	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00020**	**-.00041**	**.24108**	**.00027**
Stddev	.00046	.00022	.00214	.02431	.00012
%RSD	69.782	107.94	519.76	10.085	45.865
#1	.00098	.00005	.00110	.25827	.00035
#2	.00033	.00035	-.00193	.22388	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:56:31 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01683**	**.00029**	**-.00002**	**.13649**	**-.00024**
Stddev	.01782	.00038	.00040	.01339	.00004
%RSD	105.87	130.50	1864.3	9.8071	14.841
#1	.00423	.00002	-.00031	.14595	-.00026
#2	.02943	.00055	.00026	.12702	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.04006**	**.00101**	**-.00073**	**.03218**
Stddev	.00055	.00005	.00057	.00253	.00099
%RSD	88.623	.12754	56.304	347.83	3.0753
#1	.00023	.04009	.00061	-.00252	.03288
#2	.00102	.04002	.00141	.00106	.03148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00020**	**.00056**	**.00197**	**-.00023**
Stddev	.00021	.00008	.00061	.00044	.00016
%RSD	453.12	40.794	109.47	22.436	69.407
#1	-.00019	.00014	.00013	.00166	-.00034
#2	.00010	.00026	.00099	.00229	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:56:31 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00006**
Stddev	.00014
%RSD	245.90
#1	.00016
#2	-.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3734.7**	**2394.7**	**17101.**	**3159.5**
Stddev	3.4	1.2	42.	1.7
%RSD	.09226	.05157	.24734	.05269
#1	3732.3	2393.8	17071.	3160.7
#2	3737.1	2395.6	17130.	3158.4

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:59:56 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00587**	**.18773**	**.01734**	F **.03959**	**.00204**
Stddev	.00039	.02259	.00324	.00077	.00006
%RSD	6.5877	12.033	18.706	1.9497	3.0568
#1	.00560	.17176	.01504	.04013	.00200
#2	.00614	.20370	.01963	.03904	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.49724**	**.00206**	**.0138**	**.00394**
Stddev	.00004	.00812	.00005	.0063	.00008
%RSD	1.8911	1.6326	2.5889	45.71	1.9985
#1	.00209	.49150	.00202	.0183	.00388
#2	.00204	.50298	.00209	.0093	.00399
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00418**	**.00979**	**.04722**	W **.69682**	**.02683**
Stddev	.00008	.00104	.00275	.02202	.00034
%RSD	1.9384	10.639	5.8234	3.1597	1.2812
#1	.00424	.00905	.04916	.68125	.02708
#2	.00412	.01053	.04527	.71239	.02659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.50000	
Range				30.000%	

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:59:56 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19776**	**.00307**	**.01068**	**1.0867**	**.00959**
Stddev	.00208	.00002	.00005	.0078	.00003
%RSD	1.0512	.56576	.47031	.71763	.26571
#1	.19923	.00306	.01072	1.0812	.00957
#2	.19629	.00309	.01065	1.0922	.00960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01091**	**.22196**	**.01951**	**.02451**	**.51623**
Stddev	.00044	.00013	.00097	.00206	.00143
%RSD	3.9980	.06075	4.9827	8.3971	.27798
#1	.01060	.22186	.01882	.02305	.51724
#2	.01122	.22205	.02020	.02596	.51521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00905**	**.00497**	**.00500**	**.02119**	**.00451**
Stddev	.00019	.00003	.00034	.00001	.00034
%RSD	2.0587	.51296	6.8290	.02910	7.5506
#1	.00892	.00495	.00476	.02119	.00475
#2	.00918	.00499	.00524	.02119	.00427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:59:56 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01143**
Stddev	.00076
%RSD	6.6647
#1	.01089
#2	.01197
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3746.0**	**2413.1**	**17112.**	**3145.5**
Stddev	2.9	4.8	42.	22.2
%RSD	.07685	.19687	.24352	.70618
#1	3748.1	2416.4	17082.	3161.2
#2	3744.0	2409.7	17141.	3129.8

Sample Name: Ib2 480-368394/1-b Acquired: 7/27/2017 15:03:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.03568**	**.00265**	**.04179**	**.00786**
Stddev	.00012	.01727	.00310	.00040	.00006
%RSD	24.028	48.409	116.93	.95207	.71280
#1	-.00040	.04790	.00046	.04208	.00783
#2	-.00057	.02347	.00484	.04151	.00790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.32001**	**.00018**	**-.0013**	**.00030**
Stddev	.00007	.00053	.00007	.0099	.00003
%RSD	374.16	.16418	39.888	788.0	10.778
#1	-.00007	.32038	.00023	-.0082	.00028
#2	.00003	.31964	.00013	.0057	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00163**	**.03341**	**.18464**	**-.00116**
Stddev	.00014	.00055	.00061	.01198	.00105
%RSD	54.023	34.061	1.8337	6.4886	90.095
#1	.00016	.00124	.03384	.17616	-.00042
#2	.00036	.00202	.03298	.19311	-.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lb2 480-368394/1-b Acquired: 7/27/2017 15:03:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04657**	**.00417**	**-.00016**	**.60901**	**.00077**
Stddev	.00457	.00014	.00013	.00031	.00026
%RSD	9.8125	3.3485	82.083	.05133	33.708
#1	.04334	.00408	-.00025	.60923	.00058
#2	.04980	.00427	-.00007	.60879	.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00453**	**.04117**	**.00075**	**-.00057**	**.07740**
Stddev	.00040	.00027	.00059	.00187	.01236
%RSD	8.9479	.65119	78.913	331.55	15.969
#1	.00481	.04136	.00033	-.00189	.08615
#2	.00424	.04098	.00117	.00076	.06866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00237**	**.00067**	**.00048**	**-.00013**
Stddev	.00011	.00001	.00040	.00209	.00009
%RSD	43.044	.23875	59.733	431.91	70.423
#1	-.00034	.00238	.00095	-.00099	-.00007
#2	-.00018	.00237	.00038	.00196	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lb2 480-368394/1-b Acquired: 7/27/2017 15:03:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00765
Stddev	.00037
%RSD	4.8712
#1	.00738
#2	.00791
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3831.2	2445.7	17491.	3238.3
Stddev	6.1	4.5	24.	1.7
%RSD	.15929	.18463	.13636	.05206
#1	3835.5	2448.9	17508.	3237.1
#2	3826.9	2442.5	17474.	3239.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.49%	101.73%	101.99%	104.21%
Range				

Sample Name: mb 480-368571/2-a Acquired: 7/27/2017 15:06:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**-.00081**	**.00071**	**.01644**	**.00005**
Stddev	.00065	.00668	.00035	.00045	.00001
%RSD	103.44	826.52	49.211	2.7566	28.691
#1	.00109	.00392	.00096	.01676	.00006
#2	.00017	-.00554	.00047	.01612	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01022**	**.00003**	**.0285**	**.00013**
Stddev	.00001	.00131	.00001	.0116	.00013
%RSD	64.650	12.870	28.843	40.50	101.03
#1	-.00001	.01115	.00004	.0367	.00004
#2	-.00002	.00929	.00003	.0204	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**-.00047**	**.00126**	**.14949**	**-.00095**
Stddev	.00064	.00016	.00203	.00175	.00019
%RSD	101.70	33.170	161.81	1.1693	20.003
#1	.00108	-.00059	-.00018	.14826	-.00109
#2	.00018	-.00036	.00269	.15073	-.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368571/2-a Acquired: 7/27/2017 15:06:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00020**	**-.00006**	**.07212**	**.00037**
Stddev	.00197	.00001	.00014	.00406	.00006
%RSD	5980.6	3.9369	236.97	5.6352	16.998
#1	-.00143	.00019	-.00016	.06925	.00041
#2	.00136	.00020	.00004	.07500	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.02116**	**.00035**	**-.00128**	**.03574**
Stddev	.00126	.00441	.00349	.00006	.00147
%RSD	1171.4	20.827	1005.5	5.0370	4.1247
#1	.00100	.02428	.00281	-.00123	.03469
#2	-.00078	.01804	-.00212	-.00132	.03678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00011**	**.00056**	**.00234**	**.00002**
Stddev	.00006	.00007	.00029	.00060	.00013
%RSD	20.226	65.052	52.434	25.460	871.11
#1	-.00028	.00006	.00035	.00276	.00011
#2	-.00037	.00017	.00076	.00192	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368571/2-a Acquired: 7/27/2017 15:06:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00117
Stddev	.00043
%RSD	36.842
#1	.00087
#2	.00148
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3784.7	2423.0	17292.	3230.2
Stddev	6.7	3.5	34.	3.8
%RSD	.17603	.14537	.19784	.11731
#1	3789.4	2425.5	17316.	3232.9
#2	3780.0	2420.5	17268.	3227.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.24%	100.78%	100.83%	103.95%
Range				

Sample Name: lcs 480-368571/3-a Acquired: 7/27/2017 15:10:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94808**	**.05644**	**.93148**	**.03619**	**.92904**
Stddev	.00289	.00721	.00463	.00001	.00186
%RSD	.30445	12.766	.49660	.02458	.19983
#1	.94604	.05135	.92821	.03619	.93036
#2	.95012	.06154	.93475	.03620	.92773
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94642**	**.32873**	**.95472**	**.0126**	**.88139**
Stddev	.00362	.00209	.00120	.0139	.00103
%RSD	.38275	.63676	.12541	109.9	.11724
#1	.94899	.32725	.95387	.0225	.88066
#2	.94386	.33021	.95556	.0028	.88212
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97617**	**.93401**	**.03792**	**.13410**	**-.00093**
Stddev	.00020	.00293	.00351	.02463	.00106
%RSD	.02048	.31413	9.2493	18.367	114.22
#1	.97631	.93609	.04040	.15152	-.00018
#2	.97602	.93194	.03544	.11668	-.00167
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: lcs 480-368571/3-a Acquired: 7/27/2017 15:10:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04812**	**.96806**	**.96175**	**.59546**	**.89118**
Stddev	.00034	.00020	.00097	.00841	.00047
%RSD	.69908	.02092	.10099	1.4118	.05310
#1	.04835	.96791	.96106	.60141	.89084
#2	.04788	.96820	.96244	.58952	.89151
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92962**	**.03724**	**.90954**	**.94579**	**.08657**
Stddev	.00164	.00041	.00307	.00451	.00056
%RSD	.17615	1.1105	.33728	.47729	.64480
#1	.93077	.03695	.90737	.94259	.08697
#2	.92846	.03754	.91170	.94898	.08618
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.91102**	**.00033**	**.91776**	**.97292**
Stddev	.00007	.00374	.00025	.00072	.00034
%RSD	129.09	.41051	76.648	.07835	.03480
#1	-.00000	.91366	.00051	.91725	.97316
#2	-.00010	.90837	.00015	.91827	.97268
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368571/3-a Acquired: 7/27/2017 15:10:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.97421
Stddev	.00024
%RSD	.02508
#1	.97439
#2	.97404
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3789.2	2433.4	17346.	3240.3
Stddev	1.6	3.4	35.	2.6
%RSD	.04308	.13847	.20387	.08137
#1	3790.4	2435.8	17371.	3242.2
#2	3788.1	2431.0	17321.	3238.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.36%	101.21%	101.15%	104.28%
Range				

Sample Name: 480-121504-b-1-d Acquired: 7/27/2017 15:13:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00152**	**.15519**	**.00432**	**.03458**	**.00944**
Stddev	.00054	.01141	.00025	.00032	.00002
%RSD	35.343	7.3524	5.8215	.91891	.21846
#1	-.00114	.14713	.00415	.03480	.00942
#2	-.00190	.16326	.00450	.03435	.00945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**1.0798**	**.00016**	**.0178**	**.00014**
Stddev	.00005	.0042	.00013	.0155	.00024
%RSD	29.589	.39059	79.207	86.67	170.52
#1	.00013	1.0768	.00026	.0288	.00032
#2	.00020	1.0828	.00007	.0069	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**.31778**	**.05071**	**3.0171**	**.00213**
Stddev	.00028	.00075	.00029	.2929	.00036
%RSD	41.946	.23472	.57974	9.7093	16.966
#1	.00047	.31725	.05050	2.8100	.00188
#2	.00087	.31831	.05092	3.2242	.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-d Acquired: 7/27/2017 15:13:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28873**	**.00284**	**.00132**	F **8737.5**	**.00356**
Stddev	.00628	.00009	.00001	155.1	.00003
%RSD	2.1758	3.2877	1.1221	1.7749	.73227
#1	.29317	.00277	.00131	8627.8	.00355
#2	.28428	.00290	.00134	8847.1	.00358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				4500.0	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01807**	**1.4900**	**.00079**	**.00185**	**1.0197**
Stddev	.00047	.0045	.00060	.00295	.0029
%RSD	2.6160	.30095	75.972	159.40	.28548
#1	.01841	1.4868	.00036	-.00024	1.0218
#2	.01774	1.4931	.00121	.00394	1.0177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04234**	**.01847**	**.02188**	**-.00274**	**.00086**
Stddev	.00020	.00025	.00022	.00125	.00043
%RSD	.48166	1.3405	1.0119	45.830	50.228
#1	.04248	.01829	.02172	-.00362	.00056
#2	.04219	.01864	.02204	-.00185	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-d Acquired: 7/27/2017 15:13:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.22725
Stddev	.00144
%RSD	.63514
#1	.22827
#2	.22623
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2207.1	1849.5	12399.	2949.8
Stddev	2.1	.1	38.	33.2
%RSD	.09601	.00681	.30529	1.1267
#1	2205.6	1849.6	12426.	2973.3
#2	2208.5	1849.4	12373.	2926.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	59.040%	76.926%	72.302%	94.930%
Range				

Sample Name: 480-121504-b-1-dSD@5 Acquired: 7/27/2017 15:17:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.03439**	**.00342**	**.01347**	**.00203**
Stddev	.00004	.01682	.00012	.00001	.00001
%RSD	10.687	48.897	3.5126	.09238	.45436
#1	-.00045	.02250	.00333	.01348	.00203
#2	-.00038	.04628	.00350	.01346	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.24346**	**.00019**	**.0298**	**-.00011**
Stddev	.00004	.00015	.00028	.0398	.00017
%RSD	27.241	.06191	144.97	133.3	160.64
#1	.00017	.24335	-.00000	.0017	-.00023
#2	.00011	.24357	.00039	.0580	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.05902**	**.00784**	**.86792**	**-.00069**
Stddev	.00064	.00049	.00017	.00254	.00003
%RSD	66.009	.82952	2.1151	.29260	4.8235
#1	.00051	.05868	.00796	.86613	-.00067
#2	.00142	.05937	.00773	.86972	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-dSD@5 Acquired: 7/27/2017 15:17:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05804**	**.00053**	**.00017**	**1751.0**	**.00068**
Stddev	.00436	.00006	.00021	.4	.00003
%RSD	7.5072	11.582	120.02	.02048	3.7034
#1	.05496	.00049	.00032	1750.7	.00066
#2	.06112	.00058	.00003	1751.2	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00482**	**.30451**	**-.00007**	**-.00302**	**.20826**
Stddev	.00059	.00188	.00128	.00360	.01111
%RSD	12.267	.61876	1798.0	119.21	5.3349
#1	.00440	.30584	-.00098	-.00047	.20040
#2	.00524	.30318	.00084	-.00556	.21612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00739**	**.00398**	**.00474**	**.00111**	**.00057**
Stddev	.00030	.00000	.00025	.00040	.00005
%RSD	4.1259	.09269	5.2287	36.028	8.9361
#1	.00717	.00398	.00457	.00139	.00053
#2	.00760	.00398	.00492	.00082	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-dSD@5 Acquired: 7/27/2017 15:17:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04418**
Stddev	.00121
%RSD	2.7450
#1	.04504
#2	.04333
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2735.2**	**2107.9**	**14491.**	**3054.2**
Stddev	4.8	3.5	62.	9.2
%RSD	.17717	.16544	.43043	.30105
#1	2738.6	2110.4	14447.	3060.7
#2	2731.7	2105.5	14535.	3047.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.167%	87.676%	84.500%	98.288%
Range				

Sample Name: 480-121504-b-1-d PDS Acquired: 7/27/2017 15:20:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4646**	**.16076**	**1.3610**	**.03518**	**1.0405**
Stddev	.0018	.03130	.0025	.00041	.0019
%RSD	.12208	19.472	.18396	1.1686	.18660
#1	1.4633	.18290	1.3592	.03547	1.0392
#2	1.4659	.13863	1.3628	.03489	1.0419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99594**	**1.1752**	**1.4009**	**-.0007**	**1.1304**
Stddev	.00129	.0087	.0016	.0124	.0008
%RSD	.12937	.74368	.11461	1649.	.06776
#1	.99503	1.1690	1.3998	.0080	1.1309
#2	.99685	1.1814	1.4021	-.0095	1.1298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0608**	**1.5661**	**.05213**	**13.402**	**.06065**
Stddev	.0018	.0046	.00264	.549	.00053
%RSD	.16469	.29036	5.0704	4.0930	.87327
#1	1.0620	1.5628	.05026	13.014	.06102
#2	1.0596	1.5693	.05400	13.789	.06027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-d PDS Acquired: 7/27/2017 15:20:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30182**	**1.0552**	**.99239**	F **17812.**	**1.1477**
Stddev	.00863	.0036	.00216	129.	.0004
%RSD	2.8589	.34031	.21791	.72360	.03886
#1	.29572	1.0527	.99086	17721.	1.1474
#2	.30792	1.0578	.99392	17903.	1.1481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				4500.0	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1794**	**1.7093**	**1.2405**	**1.3199**	**1.1424**
Stddev	.0024	.0092	.0018	.0022	.0232
%RSD	.20693	.53656	.14777	.16867	2.0317
#1	1.1811	1.7158	1.2418	1.3183	1.1260
#2	1.1776	1.7028	1.2392	1.3214	1.1588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10428**	**.07213**	**.02405**	**1.0118**	**1.0871**
Stddev	.00005	.00005	.00059	.0009	.0040
%RSD	.04483	.06774	2.4348	.09215	.36415
#1	.10425	.07216	.02364	1.0125	1.0899
#2	.10432	.07209	.02447	1.0112	1.0843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-d PDS Acquired: 7/27/2017 15:20:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.4986**
Stddev	.0047
%RSD	.31444
#1	1.4952
#2	1.5019
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1887.2**	**1657.8**	**11076.**	**2735.4**
Stddev	.8	2.0	6.	2.9
%RSD	.04497	.11842	.05659	.10638
#1	1887.8	1659.1	11081.	2733.4
#2	1886.6	1656.4	11072.	2737.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50.483%	68.952%	64.587%	88.031%
Range				

Sample Name: 480-121504-b-1-e ms Acquired: 7/27/2017 15:26:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0493**	**.12495**	**.96564**	**.02568**	**.79540**
Stddev	.0101	.03139	.00277	.00019	.00080
%RSD	.96562	25.122	.28673	.73502	.10028
#1	1.0422	.10275	.96760	.02554	.79484
#2	1.0565	.14714	.96369	.02581	.79597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.78919**	**.90407**	**.96952**	**.0082**	**.86668**
Stddev	.00065	.00412	.00133	.0008	.00042
%RSD	.08283	.45594	.13705	9.365	.04790
#1	.78873	.90115	.97046	.0077	.86697
#2	.78965	.90698	.96858	.0088	.86638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.84327**	**.83810**	**.03522**	**2.6651**	**-.00000**
Stddev	.00383	.00394	.00113	.1543	.00078
%RSD	.45367	.47000	3.1995	5.7882	26057.
#1	.84057	.83532	.03443	2.5560	.00055
#2	.84598	.84089	.03602	2.7742	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-e ms Acquired: 7/27/2017 15:26:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24370**	**.82617**	**.78893**	F **6334.5**	**.87340**
Stddev	.00538	.00154	.00133	8.8	.00070
%RSD	2.2077	.18654	.16795	.13859	.08013
#1	.24750	.82508	.78987	6328.3	.87390
#2	.23989	.82726	.78800	6340.7	.87291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				4500.0	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.88619**	**1.3155**	**.86471**	**.95311**	**.85463**
Stddev	.00211	.0077	.00454	.00212	.00008
%RSD	.23800	.58493	.52483	.22209	.00979
#1	.88470	1.3209	.86792	.95461	.85469
#2	.88768	1.3100	.86150	.95161	.85457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03124**	**.78876**	**.01807**	**.78877**	**.85773**
Stddev	.00013	.00109	.00016	.00065	.00719
%RSD	.41590	.13790	.89452	.08239	.83773
#1	.03134	.78953	.01818	.78923	.85265
#2	.03115	.78799	.01796	.78831	.86282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-e ms Acquired: 7/27/2017 15:26:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.93902
Stddev	.00737
%RSD	.78481
#1	.93381
#2	.94423
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2338.5	1935.9	13086.	2965.3
Stddev	.4	1.1	91.	22.3
%RSD	.01607	.05529	.69459	.75088
#1	2338.8	1936.7	13150.	2981.1
#2	2338.2	1935.1	13022.	2949.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	62.556%	80.521%	76.307%	95.429%
Range				

Sample Name: 480-121504-b-1-f msd Acquired: 7/27/2017 16:08:16 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1824**	**.15614**	**1.1040**	**.02395**	**.89952**
Stddev	.0008	.00971	.0001	.00029	.00751
%RSD	.07123	6.2206	.01003	1.2230	.83446
#1	1.1829	.14927	1.1041	.02416	.89421
#2	1.1818	.16301	1.1039	.02375	.90482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.89535**	**1.0020**	**1.1147**	**.0060**	**.99025**
Stddev	.00824	.0105	.0003	.0091	.00045
%RSD	.92077	1.0504	.03072	151.6	.04495
#1	.88952	.99456	1.1145	.0124	.98994
#2	.90117	1.0094	1.1149	-.0004	.99057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96154**	**.96642**	**.04423**	**1.2290**	**.00316**
Stddev	.00192	.00559	.00337	.0869	.00133
%RSD	.19920	.57826	7.6094	7.0719	42.051
#1	.96289	.97037	.04185	1.1676	.00409
#2	.96019	.96247	.04661	1.2905	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-f msd Acquired: 7/27/2017 16:08:16 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.26928**	**.94175**	**.89159**	F **7396.4**	**.99477**
Stddev	.00347	.00115	.00137	94.1	.00043
%RSD	1.2902	.12245	.15361	1.2717	.04301
#1	.27174	.94256	.89062	7329.8	.99447
#2	.26682	.94093	.89256	7462.9	.99507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				4500.0	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0011**	**1.2051**	**.99082**	**1.0861**	**.94836**
Stddev	.0051	.0032	.00575	.0073	.01619
%RSD	.50765	.26761	.57991	.67197	1.7068
#1	1.0047	1.2074	.99489	1.0810	.93692
#2	.99752	1.2028	.98676	1.0913	.95981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03486**	**.89214**	**.02033**	**.87946**	**.97130**
Stddev	.00133	.01007	.00055	.00054	.00095
%RSD	3.8106	1.1285	2.7289	.06155	.09745
#1	.03392	.88503	.02072	.87984	.97197
#2	.03580	.89926	.01994	.87907	.97063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-f msd Acquired: 7/27/2017 16:08:16 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0689
Stddev	.0028
%RSD	.26492
#1	1.0669
#2	1.0709
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.8	1894.8	12736.	2900.8
Stddev	1.2	3.5	34.	46.2
%RSD	.05115	.18233	.26762	1.5921
#1	2274.6	1897.3	12712.	2933.4
#2	2273.0	1892.4	12760.	2868.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	60.826%	78.812%	74.266%	93.352%
Range				

Sample Name: lcsd 480-368571/7-a Acquired: 7/27/2017 16:19:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.89777**	**.04207**	**.89766**	**.02273**	**.90743**
Stddev	.00338	.02040	.00099	.00012	.00416
%RSD	.37616	48.479	.11063	.53035	.45855
#1	.89538	.05649	.89836	.02282	.90448
#2	.90016	.02765	.89696	.02265	.91037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91329**	**.30915**	**.92304**	**.0012**	**.85139**
Stddev	.00275	.00044	.00157	.0124	.00005
%RSD	.30088	.14233	.17025	1040.	.00632
#1	.91134	.30883	.92192	-.0076	.85136
#2	.91523	.30946	.92415	.0099	.85143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93526**	**.90468**	**.03401**	**.07305**	**-.00137**
Stddev	.00218	.00144	.00070	.01444	.00025
%RSD	.23263	.15935	2.0649	19.765	18.203
#1	.93373	.90570	.03450	.08326	-.00154
#2	.93680	.90366	.03351	.06284	-.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368571/7-a Acquired: 7/27/2017 16:19:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04498**	**.93224**	**.92645**	**.78639**	**.86058**
Stddev	.00279	.00363	.00016	.00494	.00174
%RSD	6.2048	.38899	.01771	.62796	.20252
#1	.04301	.92967	.92657	.78988	.85934
#2	.04695	.93480	.92633	.78289	.86181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.89440**	**.02330**	**.87854**	**.91374**	**.07077**
Stddev	.00470	.00116	.00002	.00093	.01547
%RSD	.52503	4.9800	.00228	.10163	21.863
#1	.89108	.02248	.87853	.91309	.08172
#2	.89772	.02412	.87856	.91440	.05983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.88692**	**.00018**	**.89152**	**.92251**
Stddev	.00055	.00390	.00013	.00015	.00403
%RSD	2717.4	.43925	73.584	.01671	.43678
#1	-.00037	.88417	.00027	.89162	.91966
#2	.00041	.88968	.00008	.89141	.92536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368571/7-a Acquired: 7/27/2017 16:19:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.93063
Stddev	.00553
%RSD	.59407
#1	.92672
#2	.93454
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3775.7	2420.8	17386.	3179.0
Stddev	9.4	6.2	61.	.9
%RSD	.24793	.25622	.35185	.02843
#1	3769.1	2416.4	17429.	3179.6
#2	3782.3	2425.2	17343.	3178.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.00%	100.69%	101.38%	102.31%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 16:22:50 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51037**	**24.886**	**.50055**	**.50126**	**.49217**
Stddev	.00209	.086	.00192	.00039	.00320
%RSD	.40904	.34439	.38341	.07792	.65117
#1	.51184	24.946	.50190	.50154	.48991
#2	.50889	24.825	.49919	.50099	.49444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49886**	**24.682**	**.49966**	**.0169**	**.49371**
Stddev	.00250	.068	.00058	.0080	.00066
%RSD	.50106	.27412	.11651	47.27	.13382
#1	.50063	24.730	.50007	.0226	.49418
#2	.49710	24.634	.49925	.0113	.49325
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51034**	**.49385**	**23.877**	**24.765**	**.50136**
Stddev	.00275	.00245	.066	.035	.00157
%RSD	.53923	.49563	.27563	.14108	.31382
#1	.50839	.49212	23.923	24.790	.50247
#2	.51229	.49558	23.830	24.740	.50025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 16:22:50 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.902**	**.51009**	**.51038**	**24.867**	**.49888**
Stddev	.180	.00321	.00110	.092	.00012
%RSD	.72217	.62973	.21550	.37162	.02365
#1	24.775	.50782	.51116	24.932	.49896
#2	25.029	.51236	.50961	24.801	.49880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49918**	**24.782**	**.49862**	**.50411**	**23.871**
Stddev	.00264	.015	.00101	.00592	.103
%RSD	.52922	.06101	.20264	1.1734	.43253
#1	.49731	24.793	.49933	.50829	23.944
#2	.50105	24.771	.49791	.49993	23.798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50503**	**.48863**	**.49534**	**.49499**	**.51840**
Stddev	.00014	.00157	.00202	.00215	.00223
%RSD	.02789	.32163	.40781	.43495	.42957
#1	.50513	.48974	.49391	.49651	.51682
#2	.50493	.48752	.49677	.49347	.51997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 16:22:50 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51239
Stddev	.00341
%RSD	.66541
#1	.50998
#2	.51480
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3402.4	2366.6	16687.	3118.2
Stddev	2.2	2.2	129.	8.9
%RSD	.06517	.09143	.77189	.28596
#1	3400.8	2365.1	16778.	3111.9
#2	3403.9	2368.2	16596.	3124.5

Sample Name: CCB-4130963 Acquired: 7/27/2017 16:25:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00130**	**-.00795**	**.00011**	**.00013**	**.00002**
Stddev	.00028	.03410	.00200	.00040	.00000
%RSD	21.725	428.99	1747.5	308.81	13.057
#1	-.00110	-.03206	.00153	.00041	.00003
#2	-.00150	.01616	-.00130	-.00015	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00433**	**.00014**	**.0273**	**.00020**
Stddev	.00008	.00024	.00009	.0098	.00002
%RSD	253.08	5.4546	63.484	35.87	11.319
#1	-.00002	.00416	.00008	.0342	.00022
#2	.00008	.00449	.00021	.0204	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00038**	**-.00214**	**-.01307**	**-.00171**
Stddev	.00071	.00013	.00018	.01139	.00128
%RSD	363.92	32.738	8.5312	87.158	74.732
#1	-.00031	-.00029	-.00201	-.00502	-.00261
#2	.00070	-.00047	-.00227	-.02113	-.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 16:25:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**.00007**	**.00012**	**.17914**	**.00035**
Stddev	.00109	.00001	.00015	.00549	.00030
%RSD	96.269	12.269	122.89	3.0643	84.403
#1	-.00036	.00007	.00002	.18302	.00057
#2	-.00190	.00008	.00023	.17525	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00696**	**.00091**	**-.00024**	**.01106**
Stddev	.00076	.00019	.00056	.00018	.00107
%RSD	126.98	2.7877	61.451	77.895	9.7029
#1	.00113	.00710	.00131	-.00037	.01181
#2	.00006	.00682	.00052	-.00011	.01030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00003**	**.00040**	**.00115**	**-.00002**
Stddev	.00032	.00002	.00015	.00037	.00022
%RSD	2117.2	55.756	38.098	32.337	1199.5
#1	.00021	.00002	.00029	.00141	-.00017
#2	-.00024	.00004	.00051	.00089	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 16:25:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00022
Stddev	.00017
%RSD	74.990
#1	.00034
#2	.00011
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3722.8	2389.2	17050.	3110.6
Stddev	.1	2.8	74.	5.9
%RSD	.00402	.11802	.43290	.18831
#1	3722.7	2387.2	16998.	3106.5
#2	3722.9	2391.2	17102.	3114.8

Sample Name: CCVL-4147888 Acquired: 7/27/2017 16:29:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00557**	**.19766**	**.01480**	**.01944**	**.00203**
Stddev	.00001	.00285	.00073	.00002	.00004
%RSD	.25299	1.4437	4.9506	.10451	1.9659
#1	.00558	.19564	.01532	.01946	.00200
#2	.00556	.19968	.01429	.01943	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.48777**	**.00207**	**.0144**	**.00400**
Stddev	.00010	.00262	.00002	.0047	.00007
%RSD	5.0543	.53697	1.1658	32.59	1.7130
#1	.00196	.48592	.00208	.0111	.00405
#2	.00211	.48962	.00205	.0177	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00452**	**.00826**	**.04811**	**.52627**	**.02875**
Stddev	.00074	.00068	.00413	.01583	.00037
%RSD	16.406	8.1730	8.5860	3.0072	1.2794
#1	.00399	.00874	.04519	.51508	.02901
#2	.00504	.00778	.05103	.53746	.02849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 16:29:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20086**	**.00309**	**.01002**	**1.1258**	**.00950**
Stddev	.00124	.00007	.00004	.0071	.00057
%RSD	.61853	2.1666	.37951	.63380	5.9481
#1	.19998	.00304	.00999	1.1208	.00990
#2	.20174	.00313	.01005	1.1309	.00910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00969**	**.19678**	**.02036**	**.02413**	**.49674**
Stddev	.00114	.00412	.00019	.00127	.00399
%RSD	11.739	2.0950	.92838	5.2454	.80243
#1	.00889	.19386	.02023	.02502	.49393
#2	.01050	.19969	.02049	.02323	.49956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00937**	**.00487**	**.00497**	**.02153**	**.00470**
Stddev	.00030	.00010	.00032	.00170	.00033
%RSD	3.2501	2.0836	6.3393	7.8905	7.0774
#1	.00958	.00480	.00475	.02273	.00447
#2	.00915	.00495	.00519	.02033	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 16:29:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01089
Stddev	.00105
%RSD	9.6459
#1	.01164
#2	.01015
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3747.0	2415.7	17170.	3112.1
Stddev	5.3	1.5	99.	17.2
%RSD	.14134	.06320	.57649	.55410
#1	3750.8	2416.8	17240.	3124.2
#2	3743.3	2414.6	17100.	3099.9

Sample Name: mb 480-368849/1-a Acquired: 7/27/2017 16:32:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.00266**	**.00312**	**.00072**	**.00028**
Stddev	.00035	.00711	.00127	.00017	.00000
%RSD	59.346	266.88	40.721	24.163	.34880
#1	-.00084	-.00769	.00402	.00084	.00028
#2	-.00035	.00236	.00222	.00060	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.04152**	**.00023**	**.0062**	**.00006**
Stddev	.00002	.00023	.00005	.0089	.00002
%RSD	51.086	.54501	21.381	143.6	32.496
#1	.00003	.04168	.00027	.0126	.00008
#2	.00006	.04136	.00020	-.0001	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**-.00029**	**.01334**	**.01345**	**-.00151**
Stddev	.00022	.00042	.00265	.03322	.00032
%RSD	28.303	144.47	19.884	246.92	21.138
#1	.00061	-.00059	.01147	-.01004	-.00128
#2	.00092	.00001	.01522	.03694	-.00173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368849/1-a Acquired: 7/27/2017 16:32:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**.00116**	**.00002**	**.16743**	**.00075**
Stddev	.00245	.00012	.00015	.00166	.00023
%RSD	181.13	10.466	780.53	.99176	31.116
#1	.00309	.00108	.00013	.16626	.00059
#2	-.00038	.00125	-.00009	.16861	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.01667**	**.00134**	**.00044**	**.29402**
Stddev	.00035	.00078	.00007	.00288	.01247
%RSD	173.72	4.6567	5.3629	649.14	4.2406
#1	.00045	.01722	.00139	-.00159	.30284
#2	-.00005	.01612	.00129	.00248	.28521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04704**	**.00020**	**.00106**	**.00098**	**-.00041**
Stddev	.00070	.00001	.00044	.00048	.00019
%RSD	1.4916	3.9614	41.759	49.433	45.362
#1	.04654	.00020	.00138	.00063	-.00054
#2	.04753	.00019	.00075	.00132	-.00028
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368849/1-a Acquired: 7/27/2017 16:32:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00160
Stddev	.00048
%RSD	30.235
#1	.00195
#2	.00126
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3769.8	2391.8	17271.	3148.1
Stddev	5.3	2.9	67.	2.7
%RSD	.14092	.12310	.39073	.08683
#1	3773.5	2393.9	17319.	3146.2
#2	3766.0	2389.7	17224.	3150.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.84%	99.483%	100.71%	101.31%
Range				

Sample Name: lcssrm 480-368849/2- Acquired: 7/27/2017 16:36:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F .51399	F 93.408	F 1.8266	F .65192	F 3.5456
Stddev	.00227	.241	.0048	.00005	.0308
%RSD	.44199	.25808	.26180	.00770	.86932
#1	.51238	93.237	1.8299	.65189	3.5238
#2	.51559	93.578	1.8232	.65196	3.5674
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.05750	11.500	.23000	.23000	.23000
Low Limit	.04250	8.5000	.17000	.17000	.17000

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F .92983	F 51.751	F 1.0532	1.370	F 1.9399
Stddev	.00303	.198	.0004	.005	.0013
%RSD	.32589	.38292	.04302	.4044	.06648
#1	.92769	51.611	1.0535	1.366	1.9408
#2	.93197	51.891	1.0529	1.373	1.9389
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
High Limit	.23000	11.500	.23000		.23000
Low Limit	.17000	8.5000	.17000		.17000

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F .66637	F .70778	F 141.68	F 28.127	F .07127
Stddev	.00037	.00173	.85	.213	.00148
%RSD	.05579	.24487	.60092	.75877	2.0799
#1	.66664	.70901	141.07	27.976	.07232
#2	.66611	.70656	142.28	28.278	.07022
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.23000	.23000	11.500	11.500	12.000
Low Limit	.17000	.17000	8.5000	8.5000	.17000

Sample Name: lcssrm 480-368849/2- Acquired: 7/27/2017 16:36:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **27.819**	F **3.8109**	F **.55255**	F **5.7809**	F **1.7796**
Stddev	.095	.0070	.00052	.0400	.0004
%RSD	.34153	.18294	.09461	.69145	.02164
#1	27.752	3.8060	.55292	5.7527	1.7799
#2	27.887	3.8158	.55218	5.8092	1.7794
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	11.500	.23000	.23000	11.500	.23000
Low Limit	8.5000	.17000	.17000	8.5000	.17000

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.75547**	F **1.3163**	F **.64724**	F **.91603**	F **4.4233**
Stddev	.00097	.0035	.00261	.00548	.0093
%RSD	.12902	.26833	.40248	.59861	.20967
#1	.75616	1.3188	.64908	.91991	4.4168
#2	.75478	1.3138	.64540	.91215	4.4299
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.23000	11.500	.23000	.23000	11.500
Low Limit	.17000	8.5000	.17000	.17000	8.5000

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.93144**	F **1.3059**	F **4.2683**	F **1.4346**	F **1.4066**
Stddev	.00027	.0117	.0066	.0006	.0014
%RSD	.02903	.89392	.15362	.04165	.09874
#1	.93125	1.2976	4.2637	1.4350	1.4056
#2	.93163	1.3141	4.2729	1.4341	1.4076
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.23000	.23000	.23000	.23000	.23000
Low Limit	.17000	.17000	.17000	.17000	.17000

Sample Name: lcssrm 480-368849/2- Acquired: 7/27/2017 16:36:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **2.9088**
Stddev	.0099
%RSD	.34110
#1	2.9018
#2	2.9158
Check ?	Chk Fail
High Limit	.23000
Low Limit	.17000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3248.0**	**2694.7**	**18991.**	**3631.7**
Stddev	4.2	2.2	38.	23.6
%RSD	.13030	.08067	.20164	.64899
#1	3251.0	2696.2	18964.	3648.3
#2	3245.0	2693.1	19018.	3615.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.887%	112.08%	110.74%	116.87%
Range				

Sample Name: 480-121538-a-1-b Acquired: 7/27/2017 16:39:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00216**	**79.976**	**.04795**	**.03143**	**.70201**
Stddev	.00001	.241	.00198	.00041	.00052
%RSD	.58111	.30179	4.1235	1.3110	.07464
#1	-.00217	80.147	.04655	.03114	.70238
#2	-.00216	79.806	.04935	.03172	.70164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00346**	**70.277**	**.00175**	**.4272**	**.06155**
Stddev	.00000	.089	.00002	.0258	.00024
%RSD	.00363	.12632	1.1682	6.039	.39280
#1	.00346	70.339	.00177	.4089	.06138
#2	.00346	70.214	.00174	.4454	.06172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14051**	**.41079**	**153.69**	**7.0684**	**.06737**
Stddev	.00049	.00328	.28	.0298	.00203
%RSD	.34732	.79748	.18113	.42173	3.0122
#1	.14086	.41311	153.89	7.0473	.06594
#2	.14017	.40848	153.50	7.0894	.06881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-1-b Acquired: 7/27/2017 16:39:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.134**	**2.6188**	**.00371**	**1.3763**	**.12526**
Stddev	.011	.0016	.00006	.0151	.00051
%RSD	.03910	.06269	1.6841	1.0988	.40451
#1	29.126	2.6176	.00376	1.3870	.12490
#2	29.142	2.6200	.00367	1.3656	.12561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0369**	**3.5314**	**.00307**	**.00361**	**1.9847**
Stddev	.0006	.0054	.00194	.00231	.0309
%RSD	.05979	.15229	63.272	63.939	1.5595
#1	1.0373	3.5276	.00444	.00524	1.9629
#2	1.0364	3.5352	.00169	.00198	2.0066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09034**	**.24833**	**3.3854**	**-.00322**	**.34166**
Stddev	.00087	.00065	.0010	.00193	.00120
%RSD	.96421	.26329	.02983	59.960	.35126
#1	.08973	.24879	3.3861	-.00458	.34081
#2	.09096	.24786	3.3847	-.00185	.34250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-1-b Acquired: 7/27/2017 16:39:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0239**
Stddev	.0013
%RSD	.12747
#1	1.0230
#2	1.0249
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3301.8**	**2612.8**	**18373.**	**3535.1**
Stddev	2.7	.3	12.	5.6
%RSD	.08306	.01234	.06541	.15873
#1	3303.7	2612.6	18382.	3539.0
#2	3299.8	2613.1	18365.	3531.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.324%	108.68%	107.14%	113.76%
Range				

Sample Name: 480-121538-a-2-b Acquired: 7/27/2017 16:42:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00201**	**83.559**	**.04780**	**.03315**	**.77479**
Stddev	.00043	.095	.00254	.00025	.00049
%RSD	21.273	.11414	5.3056	.76170	.06342
#1	-.00171	83.627	.04600	.03297	.77444
#2	-.00232	83.492	.04959	.03332	.77514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**69.488**	**.00254**	**.3931**	**.05024**
Stddev	.00004	.085	.00022	.0007	.00010
%RSD	1.0370	.12189	8.5999	.1738	.19535
#1	.00380	69.548	.00270	.3936	.05017
#2	.00386	69.428	.00239	.3927	.05030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14820**	**.33311**	**140.68**	**7.7777**	**.07579**
Stddev	.00064	.00058	.24	.0260	.00087
%RSD	.43241	.17412	.16727	.33385	1.1514
#1	.14865	.33352	140.85	7.7593	.07641
#2	.14774	.33270	140.52	7.7960	.07518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-2-b Acquired: 7/27/2017 16:42:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.944**	**3.0506**	**.00412**	**1.2083**	**.12913**
Stddev	.011	.0001	.00019	.0069	.00060
%RSD	.03547	.00412	4.6917	.57018	.46214
#1	29.952	3.0505	.00426	1.2034	.12955
#2	29.937	3.0507	.00398	1.2132	.12870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0655**	**3.6721**	**.00252**	**.00050**	**2.4009**
Stddev	.0014	.0093	.00321	.00216	.0258
%RSD	.13368	.25284	127.54	431.39	1.0749
#1	1.0645	3.6787	.00025	-.00103	2.4192
#2	1.0665	3.6655	.00479	.00203	2.3827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10236**	**.25265**	**3.3144**	**-.00387**	**.28445**
Stddev	.00052	.00041	.0058	.00007	.00008
%RSD	.50531	.16144	.17472	1.7358	.02835
#1	.10273	.25294	3.3185	-.00392	.28451
#2	.10199	.25236	3.3104	-.00383	.28439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-2-b Acquired: 7/27/2017 16:42:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1955**
Stddev	.0058
%RSD	.48794
#1	1.1914
#2	1.1997
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3317.7**	**2591.0**	**18265.**	**3448.5**
Stddev	8.7	10.1	58.	3.8
%RSD	.26223	.39146	.31989	.10929
#1	3323.8	2598.1	18224.	3451.2
#2	3311.5	2583.8	18306.	3445.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.750%	107.77%	106.51%	110.98%
Range				

Sample Name: 480-121538-a-3-b Acquired: 7/27/2017 16:46:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00233**	**26.788**	**.02282**	**.02475**	**.08158**
Stddev	.00014	.009	.00153	.00012	.00011
%RSD	6.2303	.03195	6.6925	.47682	.13355
#1	-.00243	26.781	.02174	.02483	.08166
#2	-.00222	26.794	.02390	.02466	.08150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**300.10**	**.00075**	**.2824**	**.03267**
Stddev	.00011	2.75	.00010	.0137	.00035
%RSD	5.6099	.91713	13.474	4.833	1.0669
#1	.00190	302.05	.00068	.2921	.03291
#2	.00206	298.15	.00083	.2728	.03242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06149**	**.07158**	**70.671**	**12.485**	**.02668**
Stddev	.00088	.00021	.398	.122	.00021
%RSD	1.4336	.29660	.56255	.97867	.76987
#1	.06087	.07143	70.952	12.571	.02654
#2	.06212	.07173	70.390	12.398	.02683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-3-b Acquired: 7/27/2017 16:46:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**184.99**	**1.6619**	**.00258**	**2.1275**	**.09330**
Stddev	.50	.0057	.00014	.0160	.00015
%RSD	.26963	.34490	5.5301	.75103	.16330
#1	184.63	1.6579	.00248	2.1388	.09341
#2	185.34	1.6660	.00268	2.1162	.09320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05434**	**16.086**	**-.00051**	**-.00199**	**1.4972**
Stddev	.00085	.034	.00067	.00131	.0113
%RSD	1.5567	.21250	130.83	65.648	.75349
#1	.05494	16.062	-.00004	-.00107	1.4892
#2	.05375	16.111	-.00098	-.00291	1.5052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05325**	**.20905**	**2.2448**	**-.00169**	**.35290**
Stddev	.00002	.00171	.0113	.00085	.00179
%RSD	.03401	.81959	.50427	50.400	.50842
#1	.05324	.21027	2.2368	-.00109	.35163
#2	.05327	.20784	2.2528	-.00229	.35417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-3-b Acquired: 7/27/2017 16:46:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.12590
Stddev	.00057
%RSD	.45597
#1	.12549
#2	.12630
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3024.9	2392.9	17120.	3361.2
Stddev	.6	.6	87.	24.5
%RSD	.02148	.02511	.50981	.72801
#1	3024.5	2393.4	17182.	3343.9
#2	3025.4	2392.5	17058.	3378.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.918%	99.531%	99.830%	108.17%
Range				

Sample Name: 480-121538-a-4-b Acquired: 7/27/2017 16:49:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00159**	**7.5867**	**.01838**	**.03605**	**.03369**
Stddev	.00049	.0708	.00060	.00001	.00000
%RSD	30.849	.93322	3.2597	.01884	.00367
#1	-.00194	7.6368	.01795	.03605	.03369
#2	-.00125	7.5366	.01880	.03604	.03369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	F **1012.9**	**.00060**	**.0881**	**.00991**
Stddev	.00011	4.9	.00016	.0005	.00016
%RSD	12.677	.48420	26.484	.5444	1.6127
#1	.00096	1016.4	.00049	.0884	.00980
#2	.00080	1009.5	.00071	.0877	.01003
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03801**	**.02297**	**21.179**	**4.9787**	**-.02042**
Stddev	.00057	.00089	.133	.0383	.00064
%RSD	1.5108	3.8928	.63007	.76867	3.1397
#1	.03760	.02234	21.273	5.0058	-.02088
#2	.03842	.02361	21.084	4.9517	-.01997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-4-b Acquired: 7/27/2017 16:49:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **648.93**	**.76814**	**.00258**	**1.4460**	**.04711**
Stddev	2.59	.00233	.00018	.0089	.00047
%RSD	.39901	.30340	6.9885	.61883	.99194
#1	647.10	.76650	.00245	1.4524	.04744
#2	650.76	.76979	.00270	1.4397	.04678
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	450.00				
Low Limit	-.20000				

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02426**	**13.585**	**.00038**	**-.00430**	**1.5561**
Stddev	.00119	.016	.00176	.00148	.0175
%RSD	4.8923	.11777	469.71	34.500	1.1214
#1	.02342	13.574	.00162	-.00325	1.5438
#2	.02510	13.596	-.00087	-.00535	1.5684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03930**	**.38455**	**.20787**	**.00123**	**.23011**
Stddev	.00085	.00212	.00056	.00128	.00025
%RSD	2.1757	.55226	.27165	104.40	.10703
#1	.03869	.38605	.20827	.00213	.22994
#2	.03990	.38305	.20747	.00032	.23029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-4-b Acquired: 7/27/2017 16:49:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07751
Stddev	.00010
%RSD	.13400
#1	.07758
#2	.07744
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2659.8	2062.5	14866.	3026.2
Stddev	1.9	7.6	7.	19.4
%RSD	.06965	.36825	.04933	.63964
#1	2661.1	2067.8	14871.	3012.5
#2	2658.5	2057.1	14860.	3039.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.151%	85.785%	86.684%	97.387%
Range				

Sample Name: 480-121538-a-5-b Acquired: 7/27/2017 16:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**101.68**	**.04686**	**.05333**	**1.3134**
Stddev	.00044	.14	.00308	.00055	.0008
%RSD	43.800	.14054	6.5737	1.0310	.06208
#1	-.00069	101.78	.04468	.05372	1.3140
#2	-.00131	101.58	.04904	.05294	1.3128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00445**	**154.00**	**.00273**	**.4878**	**.08050**
Stddev	.00005	.06	.00006	.0339	.00032
%RSD	1.1661	.04055	2.3156	6.956	.40312
#1	.00442	153.95	.00278	.4638	.08073
#2	.00449	154.04	.00269	.5118	.08027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35568**	**.38179**	**151.69**	**20.570**	**.11055**
Stddev	.00061	.00088	.28	.028	.00036
%RSD	.17154	.23090	.18277	.13798	.32372
#1	.35525	.38117	151.49	20.590	.11030
#2	.35611	.38242	151.88	20.550	.11081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-5-b Acquired: 7/27/2017 16:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.394**	**2.7512**	**.00543**	**2.7819**	**.29676**
Stddev	.140	.0103	.00008	.0038	.00076
%RSD	.17667	.37295	1.5227	.13788	.25658
#1	79.295	2.7439	.00549	2.7846	.29730
#2	79.493	2.7584	.00537	2.7792	.29622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8103**	**6.6094**	**.00107**	**-.00079**	**4.0192**
Stddev	.0061	.0038	.00018	.00033	.0097
%RSD	.33684	.05788	16.661	41.947	.24195
#1	1.8146	6.6121	.00119	-.00103	4.0260
#2	1.8059	6.6067	.00094	-.00056	4.0123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11883**	**.35494**	**5.3819**	**-.00466**	**.36348**
Stddev	.00023	.00023	.0277	.00365	.00234
%RSD	.19145	.06470	.51507	78.272	.64484
#1	.11899	.35510	5.3623	-.00208	.36182
#2	.11867	.35478	5.4015	-.00724	.36514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-5-b Acquired: 7/27/2017 16:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.6411**
Stddev	.0100
%RSD	.60665
#1	1.6341
#2	1.6482
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3094.9**	**2523.3**	**17837.**	**3464.3**
Stddev	9.9	6.9	42.	6.6
%RSD	.32025	.27233	.23431	.19143
#1	3087.9	2518.4	17867.	3469.0
#2	3101.9	2528.1	17808.	3459.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.791%	104.95%	104.01%	111.49%
Range				

Sample Name: 480-121538-a-6-b Acquired: 7/27/2017 16:56:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**83.895**	**.04339**	**.03704**	**.98106**
Stddev	.00056	.304	.00119	.00004	.00248
%RSD	32.573	.36291	2.7473	.12136	.25236
#1	.00210	84.110	.04423	.03707	.97931
#2	.00131	83.679	.04255	.03701	.98281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00388**	**114.46**	**.00222**	**.4065**	**.06109**
Stddev	.00000	.07	.00012	.0110	.00005
%RSD	.05322	.05773	5.4351	2.700	.08754
#1	.00388	114.51	.00230	.4142	.06105
#2	.00387	114.42	.00213	.3987	.06113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21411**	**.28786**	**125.79**	**13.318**	**.08145**
Stddev	.00023	.00011	.01	.021	.00179
%RSD	.10897	.03700	.00956	.15968	2.1983
#1	.21395	.28779	125.80	13.303	.08019
#2	.21428	.28794	125.78	13.333	.08272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-6-b Acquired: 7/27/2017 16:56:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.539**	**2.3278**	**.00377**	**2.4550**	**.21923**
Stddev	.036	.0038	.00007	.0030	.00070
%RSD	.07661	.16302	1.9039	.12279	.32087
#1	47.513	2.3305	.00372	2.4572	.21874
#2	47.564	2.3251	.00382	2.4529	.21973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3795**	**3.6194**	**.00043**	**.00208**	**4.4960**
Stddev	.0028	.0023	.00155	.00098	.0511
%RSD	.20037	.06245	358.18	47.005	1.1368
#1	1.3776	3.6178	-.00066	.00277	4.5321
#2	1.3815	3.6210	.00153	.00139	4.4599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09658**	**.30011**	**4.2521**	**-.00346**	**.27385**
Stddev	.00054	.00109	.0054	.00050	.00082
%RSD	.56084	.36154	.12766	14.420	.29875
#1	.09620	.29934	4.2559	-.00382	.27328
#2	.09696	.30088	4.2482	-.00311	.27443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-6-b Acquired: 7/27/2017 16:56:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1080**
Stddev	.0023
%RSD	.20981
#1	1.1063
#2	1.1096
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3206.5**	**2521.8**	**17886.**	**3404.0**
Stddev	1.8	1.5	19.	4.8
%RSD	.05516	.05909	.10475	.14167
#1	3207.7	2522.9	17873.	3400.6
#2	3205.2	2520.8	17899.	3407.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.776%	104.89%	104.30%	109.55%
Range				

Sample Name: 480-121538-a-7-b Acquired: 7/27/2017 16:59:42 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00221**	**91.405**	**.03661**	**.02433**	**.84681**
Stddev	.00067	.354	.00142	.00045	.00121
%RSD	30.148	.38770	3.8764	1.8374	.14301
#1	-.00268	91.154	.03560	.02401	.84595
#2	-.00174	91.655	.03761	.02464	.84766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**31.175**	**.00080**	**.5541**	**.05884**
Stddev	.00008	.046	.00013	.0086	.00016
%RSD	2.1324	.14900	15.713	1.553	.27876
#1	.00391	31.142	.00089	.5602	.05872
#2	.00403	31.208	.00071	.5480	.05895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20026**	**.19152**	**129.53**	**8.5292**	**.06965**
Stddev	.00064	.00008	.47	.0031	.00168
%RSD	.31958	.04240	.36210	.03640	2.4094
#1	.19981	.19146	129.20	8.5314	.07083
#2	.20071	.19158	129.86	8.5270	.06846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-7-b Acquired: 7/27/2017 16:59:42 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.888**	**2.5619**	**.00180**	**1.1163**	**.19551**
Stddev	.106	.0174	.00001	.0084	.00032
%RSD	.53086	.67826	.69028	.75004	.16192
#1	19.814	2.5496	.00179	1.1104	.19529
#2	19.963	2.5742	.00180	1.1222	.19574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.90972**	**2.7089**	**-.00127**	**.00032**	**3.7410**
Stddev	.00059	.0022	.00205	.00432	.0776
%RSD	.06481	.08289	161.62	1329.8	2.0751
#1	.91014	2.7104	-.00272	.00338	3.6861
#2	.90930	2.7073	.00018	-.00273	3.7959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06753**	**.18656**	**3.8368**	**-.00495**	**.24618**
Stddev	.00043	.00108	.0225	.00032	.00009
%RSD	.63829	.58048	.58638	6.5712	.03627
#1	.06723	.18579	3.8209	-.00472	.24624
#2	.06784	.18733	3.8527	-.00518	.24611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-7-b Acquired: 7/27/2017 16:59:42 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.78102
Stddev	.00624
%RSD	.79849
#1	.77661
#2	.78543
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3341.9	2650.5	18791.	3505.7
Stddev	1.1	3.4	111.	5.6
%RSD	.03167	.12732	.59289	.16039
#1	3341.1	2648.1	18870.	3509.7
#2	3342.6	2652.8	18712.	3501.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.398%	110.24%	109.57%	112.82%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:03:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51733**	**24.808**	**.50116**	**.50045**	**.49333**
Stddev	.00132	.150	.00084	.00106	.00200
%RSD	.25539	.60537	.16773	.21169	.40473
#1	.51639	24.914	.50175	.49970	.49474
#2	.51826	24.702	.50056	.50120	.49191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49605**	**24.498**	**.49916**	**.0087**	**.49284**
Stddev	.00383	.116	.00019	.0090	.00029
%RSD	.77111	.47476	.03709	103.7	.05878
#1	.49875	24.580	.49929	.0023	.49305
#2	.49334	24.416	.49903	.0151	.49264
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51663**	**.49561**	**23.628**	**24.754**	**.50358**
Stddev	.00327	.00374	.122	.107	.00445
%RSD	.63315	.75366	.51715	.43256	.88352
#1	.51894	.49826	23.714	24.829	.50673
#2	.51432	.49297	23.541	24.678	.50043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:03:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.044**	**.51401**	**.50867**	**24.900**	**.49872**
Stddev	.056	.00171	.00006	.187	.00002
%RSD	.22303	.33348	.01187	.75273	.00415
#1	25.084	.51522	.50871	25.033	.49871
#2	25.005	.51280	.50863	24.767	.49874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49914**	**24.816**	**.49850**	**.50647**	**23.713**
Stddev	.00075	.014	.00017	.00186	.116
%RSD	.15023	.05831	.03408	.36676	.48851
#1	.49967	24.805	.49862	.50516	23.795
#2	.49861	24.826	.49838	.50778	23.631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50474**	**.48324**	**.49789**	**.49503**	**.52094**
Stddev	.00067	.00386	.00242	.00134	.00083
%RSD	.13205	.79970	.48520	.27162	.15998
#1	.50427	.48597	.49959	.49598	.52153
#2	.50521	.48051	.49618	.49408	.52035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:03:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51729**
Stddev	.00107
%RSD	.20597
#1	.51805
#2	.51654
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3417.2**	**2376.2**	**16558.**	**3101.9**
Stddev	1.1	3.2	39.	26.5
%RSD	.03211	.13403	.23716	.85464
#1	3418.0	2378.4	16530.	3083.1
#2	3416.4	2373.9	16585.	3120.6

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:06:11 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00156**	**-.00020**	**-.00032**	**.00002**
Stddev	.00026	.01875	.00278	.00034	.00001
%RSD	106.93	1199.8	1411.8	105.12	57.610
#1	-.00043	-.01169	-.00216	-.00008	.00001
#2	-.00006	.01482	.00177	-.00057	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00716**	**-.00003**	**.0085**	**.00007**
Stddev	.00004	.00152	.00024	.0107	.00006
%RSD	54.557	21.183	730.90	124.9	85.368
#1	.00004	.00609	.00014	.0161	.00003
#2	.00009	.00824	-.00020	.0010	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00039**	**.00188**	**-.00172**	**-.00046**
Stddev	.00039	.00021	.00132	.02612	.00125
%RSD	160.20	54.495	70.577	1517.4	273.55
#1	-.00003	-.00024	.00094	.01675	-.00134
#2	.00052	-.00054	.00281	-.02019	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:06:11 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.00011**	**-.00014**	**.06327**	**.00019**
Stddev	.00201	.00001	.00013	.00748	.00021
%RSD	316.86	8.6640	90.760	11.827	106.18
#1	.00079	.00011	-.00024	.05798	.00034
#2	-.00205	.00010	-.00005	.06856	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00935**	**.00040**	**-.00129**	**.01412**
Stddev	.00011	.00140	.00310	.00410	.02007
%RSD	40.014	14.952	783.08	317.76	142.09
#1	.00021	.00836	-.00180	-.00419	-.00007
#2	.00037	.01034	.00259	.00161	.02831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00008**	**.00032**	**.00190**	**-.00003**
Stddev	.00007	.00001	.00004	.00009	.00010
%RSD	14.782	12.993	12.864	4.5397	391.32
#1	-.00052	.00009	.00035	.00196	.00005
#2	-.00042	.00007	.00029	.00183	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:06:11 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00002**
Stddev	.00069
%RSD	4221.6
#1	.00047
#2	-.00050
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3757.3**	**2410.7**	**17154.**	**3072.2**
Stddev	5.0	2.7	96.	6.7
%RSD	.13218	.11189	.55848	.21730
#1	3760.8	2412.6	17087.	3076.9
#2	3753.8	2408.8	17222.	3067.5

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:09:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.18134**	**.01770**	**.01967**	**.00202**
Stddev	.00176	.00716	.00071	.00022	.00001
%RSD	30.813	3.9504	3.9910	1.1145	.30826
#1	.00695	.17628	.01720	.01952	.00202
#2	.00446	.18641	.01820	.01983	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.48913**	**.00225**	**.0372**	**.00412**
Stddev	.00006	.00042	.00001	.0082	.00012
%RSD	2.8226	.08575	.53533	22.09	2.8754
#1	.00216	.48884	.00226	.0430	.00420
#2	.00207	.48943	.00224	.0314	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**.00864**	**.05035**	**.47792**	**.02817**
Stddev	.00013	.00001	.00485	.01533	.00205
%RSD	2.6198	.07477	9.6359	3.2082	7.2832
#1	.00493	.00863	.04692	.46708	.02962
#2	.00475	.00864	.05378	.48876	.02672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:09:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19617**	**.00302**	**.00998**	**1.0528**	**.00972**
Stddev	.00088	.00005	.00008	.0076	.00030
%RSD	.44707	1.7827	.75198	.72549	3.0533
#1	.19555	.00298	.01003	1.0474	.00951
#2	.19679	.00306	.00993	1.0582	.00993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01060**	**.19862**	**.01967**	**.02266**	**.50628**
Stddev	.00056	.00127	.00020	.00101	.00797
%RSD	5.2871	.63726	1.0367	4.4581	1.5741
#1	.01100	.19772	.01952	.02337	.50065
#2	.01020	.19951	.01981	.02194	.51192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00910**	**.00476**	**.00529**	**.02165**	**.00454**
Stddev	.00003	.00015	.00001	.00172	.00003
%RSD	.27508	3.1611	.09811	7.9276	.66917
#1	.00908	.00466	.00528	.02044	.00452
#2	.00912	.00487	.00529	.02287	.00456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:09:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01167
Stddev	.00001
%RSD	.12289
#1	.01166
#2	.01168
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3754.7	2421.8	17229.	3099.9
Stddev	6.3	5.0	27.	14.5
%RSD	.16719	.20533	.15855	.46797
#1	3750.2	2418.2	17210.	3110.2
#2	3759.1	2425.3	17248.	3089.7

Sample Name: 480-121538-a-8-b Acquired: 7/27/2017 17:13:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**104.07**	**.04754**	**.04361**	**1.1497**
Stddev	.00071	.12	.00157	.00038	.0027
%RSD	72.773	.11716	3.2938	.88053	.23696
#1	-.00148	103.98	.04865	.04388	1.1478
#2	-.00047	104.15	.04643	.04334	1.1517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00471**	**99.942**	**.00223**	**.5081**	**.07445**
Stddev	.00005	.380	.00009	.0080	.00020
%RSD	1.1284	.38011	3.9361	1.583	.27135
#1	.00467	99.673	.00217	.5024	.07459
#2	.00475	100.21	.00229	.5138	.07431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22605**	**.33294**	**153.46**	**16.016**	**.10078**
Stddev	.00004	.00045	.23	.034	.00090
%RSD	.01574	.13525	.14691	.21422	.89145
#1	.22602	.33325	153.30	15.991	.10015
#2	.22607	.33262	153.62	16.040	.10142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-8-b Acquired: 7/27/2017 17:13:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.618**	**3.1378**	**.00679**	**2.1644**	**.25660**
Stddev	.107	.0088	.00023	.0005	.00023
%RSD	.24044	.28166	3.3316	.02452	.08865
#1	44.542	3.1316	.00663	2.1648	.25644
#2	44.693	3.1441	.00695	2.1640	.25676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5891**	**3.4602**	**.00137**	**-.00106**	**3.5514**
Stddev	.0021	.0101	.00228	.00245	.0204
%RSD	.13383	.29183	166.78	231.85	.57503
#1	1.5876	3.4530	.00298	.00068	3.5370
#2	1.5906	3.4673	-.00025	-.00279	3.5659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09702**	**.31026**	**5.0715**	**-.00525**	**.32033**
Stddev	.00041	.00094	.0219	.00023	.00093
%RSD	.41857	.30445	.43213	4.4508	.29056
#1	.09731	.30959	5.0560	-.00541	.31968
#2	.09673	.31092	5.0870	-.00508	.32099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-8-b Acquired: 7/27/2017 17:13:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.3220**
Stddev	.0019
%RSD	.14069
#1	1.3207
#2	1.3233
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3203.1**	**2599.7**	**18180.**	**3474.5**
Stddev	3.8	7.1	50.	19.4
%RSD	.12003	.27501	.27466	.55815
#1	3205.9	2604.7	18215.	3488.2
#2	3200.4	2594.6	18145.	3460.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.686%	108.13%	106.01%	111.82%
Range				

Sample Name: 480-121538-a-9-b Acquired: 7/27/2017 17:16:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**93.935**	**.04677**	**.04245**	**1.1897**
Stddev	.00039	.189	.00045	.00042	.0013
%RSD	40.833	.20155	.96762	.98231	.10800
#1	-.00068	94.069	.04709	.04215	1.1906
#2	-.00123	93.801	.04645	.04274	1.1887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**102.92**	**.00214**	**.4394**	**.06814**
Stddev	.00006	.04	.00001	.0160	.00019
%RSD	1.4609	.03693	.49867	3.642	.28418
#1	.00423	102.89	.00215	.4281	.06828
#2	.00414	102.95	.00213	.4507	.06801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23429**	**.30849**	**146.51**	**14.658**	**.09441**
Stddev	.00237	.00064	.40	.022	.00178
%RSD	1.0128	.20692	.27386	.14967	1.8858
#1	.23261	.30803	146.23	14.673	.09567
#2	.23596	.30894	146.79	14.642	.09315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-9-b Acquired: 7/27/2017 17:16:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.693**	**2.6996**	**.00405**	**1.8316**	**.25083**
Stddev	.419	.0247	.00005	.0159	.00116
%RSD	.81119	.91605	1.3523	.87074	.46405
#1	51.397	2.6822	.00409	1.8429	.25000
#2	51.990	2.7171	.00401	1.8203	.25165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3300**	**9.4490**	**.00209**	**.00170**	**4.2008**
Stddev	.0001	.0052	.00107	.00154	.0324
%RSD	.00488	.05488	51.351	90.759	.77065
#1	2.3301	9.4453	.00133	.00061	4.1779
#2	2.3299	9.4526	.00284	.00278	4.2237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09296**	**.27737**	**4.7111**	**-.00428**	**.30525**
Stddev	.00061	.00004	.0276	.00086	.00385
%RSD	.65724	.01281	.58585	20.162	1.2617
#1	.09253	.27739	4.6916	-.00367	.30253
#2	.09339	.27734	4.7306	-.00489	.30797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-9-b Acquired: 7/27/2017 17:16:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1916**
Stddev	.0163
%RSD	1.3673
#1	1.1801
#2	1.2031
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3206.2**	**2585.6**	**18065.**	**3500.6**
Stddev	5.9	2.3	197.	1.9
%RSD	.18426	.09033	1.0929	.05365
#1	3210.4	2587.2	18205.	3499.2
#2	3202.0	2583.9	17925.	3501.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.767%	107.54%	105.34%	112.65%
Range				

Sample Name: 480-121538-a-10-b Acquired: 7/27/2017 17:19:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00114	84.742	.04538	.04285	1.4795
Stddev	.00027	.175	.00208	.00010	.0058
%RSD	23.859	.20662	4.5819	.23459	.39425
#1	.00095	84.619	.04685	.04278	1.4836
#2	.00133	84.866	.04391	.04292	1.4754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00386	96.493	.00202	.4057	.05714
Stddev	.00002	.069	.00023	.0013	.00011
%RSD	.52716	.07148	11.350	.3273	.18878
#1	.00384	96.542	.00218	.4066	.05706
#2	.00387	96.444	.00185	.4048	.05721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.18561	.29638	137.52	13.028	.08493
Stddev	.00024	.00169	.34	.002	.00090
%RSD	.12981	.56988	.24888	.01826	1.0570
#1	.18544	.29519	137.76	13.030	.08556
#2	.18578	.29758	137.28	13.026	.08429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-10-b Acquired: 7/27/2017 17:19:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.083**	**2.4234**	**.00307**	**1.9770**	**.21593**
Stddev	.122	.0099	.00027	.0032	.00009
%RSD	.29642	.40892	8.9059	.15968	.04383
#1	40.997	2.4164	.00326	1.9792	.21599
#2	41.169	2.4305	.00287	1.9747	.21586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6890**	**3.1344**	**.00247**	**.00077**	**4.6058**
Stddev	.0021	.0013	.00161	.00530	.0783
%RSD	.12138	.04227	64.937	686.46	1.7010
#1	1.6876	3.1335	.00361	-.00298	4.6612
#2	1.6905	3.1353	.00134	.00452	4.5504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09082**	**.29191**	**4.1821**	**-.00410**	**.29261**
Stddev	.00041	.00175	.0144	.00080	.00095
%RSD	.44666	.60073	.34357	19.512	.32331
#1	.09111	.29315	4.1719	-.00353	.29195
#2	.09054	.29067	4.1922	-.00466	.29328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-10-b Acquired: 7/27/2017 17:19:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.2119**
Stddev	.0032
%RSD	.26260
#1	1.2096
#2	1.2141
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3243.5**	**2546.5**	**17864.**	**3375.1**
Stddev	.4	3.5	52.	11.7
%RSD	.01166	.13571	.29365	.34801
#1	3243.2	2544.1	17901.	3366.8
#2	3243.7	2549.0	17827.	3383.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.765%	105.92%	104.17%	108.62%
Range				

Sample Name: 480-121538-a-11-b Acquired: 7/27/2017 17:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**83.538**	**.04571**	**.06298**	**.92476**
Stddev	.00080	.571	.00034	.00075	.00497
%RSD	102.56	.68383	.75360	1.1966	.53771
#1	-.00022	83.135	.04595	.06245	.92124
#2	-.00135	83.942	.04547	.06351	.92827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00373**	**138.81**	**.00232**	**.4399**	**.05433**
Stddev	.00006	.65	.00017	.0146	.00010
%RSD	1.5145	.46715	7.1858	3.323	.18428
#1	.00377	138.35	.00244	.4296	.05440
#2	.00369	139.26	.00221	.4502	.05426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18401**	**.34830**	**119.14**	**12.651**	**.07980**
Stddev	.00084	.00239	.53	.041	.00037
%RSD	.45491	.68529	.44397	.32151	.45800
#1	.18341	.34999	118.76	12.622	.07954
#2	.18460	.34662	119.51	12.679	.08006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-11-b Acquired: 7/27/2017 17:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.540**	**2.1389**	**.00444**	**3.0535**	**.17734**
Stddev	.044	.0049	.00036	.0081	.00070
%RSD	.11916	.22862	8.0119	.26489	.39637
#1	36.509	2.1354	.00469	3.0478	.17784
#2	36.570	2.1423	.00419	3.0592	.17684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0148**	**4.2621**	**.00246**	**-.00093**	**9.1089**
Stddev	.0025	.0020	.00176	.00379	.0698
%RSD	.12224	.04636	71.626	408.71	.76646
#1	2.0130	4.2635	.00121	-.00361	9.0595
#2	2.0165	4.2607	.00370	.00175	9.1583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17480**	**.43476**	**3.9252**	**-.00418**	**.24914**
Stddev	.00086	.00275	.0003	.00163	.00080
%RSD	.49101	.63236	.00833	38.969	.32089
#1	.17541	.43282	3.9255	-.00534	.24857
#2	.17419	.43671	3.9250	-.00303	.24970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-11-b Acquired: 7/27/2017 17:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1952**
Stddev	.0003
%RSD	.02258
#1	1.1951
#2	1.1954
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3194.8**	**2508.2**	**17616.**	**3416.9**
Stddev	3.9	4.8	22.	1.4
%RSD	.12122	.18983	.12241	.04012
#1	3197.6	2511.6	17631.	3417.8
#2	3192.1	2504.8	17601.	3415.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.464%	104.33%	102.72%	109.96%
Range				

Sample Name: 480-121538-a-13-b Acquired: 7/27/2017 17:26:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00304**	**79.686**	**.05459**	**.02431**	**.70230**
Stddev	.00072	.154	.00159	.00034	.00079
%RSD	23.671	.19333	2.9210	1.4065	.11239
#1	-.00355	79.795	.05572	.02455	.70286
#2	-.00253	79.577	.05346	.02407	.70174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**93.060**	**.00227**	**.6458**	**.05182**
Stddev	.00007	.077	.00007	.0133	.00020
%RSD	1.4527	.08227	3.1789	2.053	.37665
#1	.00496	93.114	.00222	.6552	.05196
#2	.00506	93.005	.00232	.6365	.05168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15202**	**.27200**	**162.10**	**7.0627**	**.07154**
Stddev	.00031	.00037	.40	.0231	.00041
%RSD	.20426	.13431	.24485	.32636	.57280
#1	.15181	.27226	161.82	7.0790	.07183
#2	.15224	.27174	162.38	7.0464	.07125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-13-b Acquired: 7/27/2017 17:26:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.237**	**2.5850**	**.00355**	**1.0264**	**.12535**
Stddev	.026	.0005	.00010	.0122	.00010
%RSD	.06079	.02036	2.6930	1.1862	.07742
#1	42.256	2.5854	.00349	1.0350	.12542
#2	42.219	2.5847	.00362	1.0178	.12528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0295**	**2.5653**	**-.00085**	**.00085**	**3.1798**
Stddev	.0024	.0074	.00045	.00177	.0119
%RSD	.23524	.28696	52.945	207.99	.37455
#1	1.0312	2.5706	-.00053	-.00040	3.1714
#2	1.0277	2.5601	-.00116	.00210	3.1883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08721**	**.26375**	**2.9583**	**-.00502**	**.24005**
Stddev	.00037	.00044	.0019	.00165	.00071
%RSD	.42328	.16658	.06339	32.855	.29577
#1	.08747	.26406	2.9569	-.00385	.24055
#2	.08695	.26344	2.9596	-.00619	.23955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-13-b Acquired: 7/27/2017 17:26:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0641**
Stddev	.0040
%RSD	.37892
#1	1.0670
#2	1.0613
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3231.9**	**2541.3**	**17953.**	**3427.0**
Stddev	3.6	1.5	24.	12.7
%RSD	.11037	.05907	.13466	.37198
#1	3229.4	2540.2	17936.	3418.0
#2	3234.5	2542.3	17970.	3436.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.456%	105.70%	104.69%	110.29%
Range				

Sample Name: 480-121538-a-14-b Acquired: 7/27/2017 17:29:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00207**	**69.954**	**.03834**	**.06811**	**.65414**
Stddev	.00094	1.051	.00054	.00019	.00826
%RSD	45.216	1.5022	1.4163	.27470	1.2624
#1	-.00273	69.211	.03795	.06798	.64830
#2	-.00141	70.697	.03872	.06825	.65998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00341**	**56.276**	**.00216**	**.3184**	**.05104**
Stddev	.00001	.827	.00027	.0049	.00003
%RSD	.43222	1.4697	12.666	1.550	.05445
#1	.00340	55.691	.00196	.3149	.05106
#2	.00342	56.861	.00235	.3219	.05103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14910**	**.24479**	**149.58**	**6.7915**	**.06040**
Stddev	.00050	.00006	1.61	.1043	.00118
%RSD	.33473	.02342	1.0753	1.5360	1.9590
#1	.14874	.24483	148.45	6.7177	.05956
#2	.14945	.24474	150.72	6.8652	.06124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-14-b Acquired: 7/27/2017 17:29:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.458**	**3.2710**	**.00325**	**1.2206**	**.10991**
Stddev	.049	.0115	.00000	.0119	.00043
%RSD	.28231	.35143	.12368	.97383	.38700
#1	17.424	3.2628	.00326	1.2122	.10961
#2	17.493	3.2791	.00325	1.2290	.11021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92470**	**2.1778**	**.00127**	**-.00030**	**3.8013**
Stddev	.00214	.0092	.00099	.00113	.1231
%RSD	.23156	.42025	77.670	372.47	3.2381
#1	.92319	2.1714	.00057	-.00110	3.7143
#2	.92622	2.1843	.00196	.00050	3.8884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08705**	**.25388**	**2.8214**	**-.00365**	**.23972**
Stddev	.00060	.00207	.0181	.00156	.00059
%RSD	.68957	.81607	.64280	42.816	.24697
#1	.08662	.25241	2.8086	-.00255	.23930
#2	.08747	.25534	2.8343	-.00476	.24014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-14-b Acquired: 7/27/2017 17:29:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.87015**
Stddev	.00348
%RSD	.39953
#1	.86769
#2	.87261
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3322.5**	**2527.3**	**17763.**	**3402.1**
Stddev	5.8	6.5	62.	56.7
%RSD	.17486	.25652	.34801	1.6652
#1	3326.6	2531.9	17807.	3442.2
#2	3318.4	2522.7	17719.	3362.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.879%	105.12%	103.58%	109.49%
Range				

Sample Name: 480-121538-a-15-b Acquired: 7/27/2017 17:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00201**	**71.645**	**.03909**	**.02369**	**.62584**
Stddev	.00059	.568	.00032	.00068	.00355
%RSD	29.331	.79257	.82058	2.8514	.56723
#1	-.00243	72.047	.03886	.02416	.62333
#2	-.00159	71.244	.03931	.02321	.62835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00321**	**73.150**	**.00204**	**.3576**	**.04528**
Stddev	.00006	.564	.00002	.0114	.00003
%RSD	1.9404	.77139	1.1185	3.183	.06806
#1	.00317	73.549	.00203	.3656	.04530
#2	.00326	72.751	.00206	.3495	.04526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14012**	**.23613**	**131.29**	**7.0606**	**.06006**
Stddev	.00010	.00153	.69	.0918	.00119
%RSD	.07474	.64775	.52646	1.3001	1.9834
#1	.14005	.23504	131.78	7.1256	.06090
#2	.14019	.23721	130.81	6.9957	.05922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-15-b Acquired: 7/27/2017 17:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.807**	**2.7710**	**.00315**	**1.2195**	**.11262**
Stddev	.003	.0022	.00002	.0056	.00029
%RSD	.01106	.08039	.69250	.46297	.26027
#1	24.809	2.7694	.00317	1.2155	.11242
#2	24.805	2.7726	.00314	1.2235	.11283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.84532**	**3.4699**	**.00028**	**.00299**	**4.3389**
Stddev	.00220	.0067	.00098	.00389	.0104
%RSD	.26000	.19380	351.98	130.17	.23969
#1	.84376	3.4652	-.00041	.00024	4.3462
#2	.84687	3.4747	.00097	.00574	4.3315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08180**	**.25160**	**3.1148**	**-.00381**	**.19858**
Stddev	.00024	.00141	.0101	.00039	.00000
%RSD	.28940	.56022	.32486	10.214	.00168
#1	.08197	.25260	3.1077	-.00408	.19857
#2	.08163	.25060	3.1220	-.00353	.19858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-15-b Acquired: 7/27/2017 17:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.85705
Stddev	.00681
%RSD	.79488
#1	.86187
#2	.85223
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3312.4	2537.0	17836.	3390.1
Stddev	6.1	4.3	32.	15.2
%RSD	.18453	.16944	.18123	.44973
#1	3308.1	2534.0	17858.	3379.3
#2	3316.8	2540.1	17813.	3400.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.610%	105.52%	104.00%	109.10%
Range				

Sample Name: 480-121538-a-16-d Acquired: 7/27/2017 17:36:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00295**	**63.809**	**.03090**	**.01709**	**.18470**
Stddev	.00006	.214	.00038	.00014	.00048
%RSD	1.8955	.33479	1.2376	.83448	.25721
#1	-.00299	63.960	.03063	.01699	.18504
#2	-.00291	63.658	.03117	.01719	.18436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**18.030**	**.00153**	**.2738**	**.01614**
Stddev	.00000	.012	.00009	.0061	.00001
%RSD	.26557	.06820	5.9337	2.235	.07090
#1	.00171	18.038	.00147	.2781	.01614
#2	.00172	18.021	.00160	.2695	.01613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08449**	**.08097**	**61.731**	**3.9170**	**.04615**
Stddev	.00046	.00096	.108	.0208	.00008
%RSD	.54307	1.1810	.17443	.53175	.18024
#1	.08482	.08165	61.807	3.9317	.04609
#2	.08417	.08030	61.655	3.9022	.04621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-d Acquired: 7/27/2017 17:36:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8525**	**.78039**	**.00248**	**.71653**	**.03944**
Stddev	.0008	.00101	.00013	.00024	.00057
%RSD	.00941	.12995	5.3575	.03284	1.4462
#1	8.8519	.78111	.00238	.71669	.03985
#2	8.8531	.77967	.00257	.71636	.03904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45250**	**1.9184**	**.00084**	**.00049**	**3.9514**
Stddev	.00044	.0014	.00211	.00392	.0573
%RSD	.09645	.07395	251.06	803.80	1.4506
#1	.45219	1.9174	.00233	.00326	3.9920
#2	.45281	1.9194	-.00065	-.00229	3.9109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05423**	**.07721**	**2.2336**	**-.00097**	**.13348**
Stddev	.00015	.00076	.0069	.00113	.00036
%RSD	.26911	.98671	.30727	116.32	.26953
#1	.05413	.07774	2.2384	-.00017	.13323
#2	.05434	.07667	2.2287	-.00178	.13374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-d Acquired: 7/27/2017 17:36:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.64210
Stddev	.00173
%RSD	.26893
#1	.64088
#2	.64332
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3517.8	2498.2	17546.	3296.9
Stddev	.8	4.2	19.	10.3
%RSD	.02415	.16778	.10964	.31131
#1	3517.2	2495.2	17560.	3289.7
#2	3518.4	2501.2	17532.	3304.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.104%	103.91%	102.31%	106.10%
Range				

Sample Name: 121538-a-16-dSD@5 Acquired: 7/27/2017 17:39:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**13.255**	**.00725**	**.01598**	**.03821**
Stddev	.00049	.114	.00277	.00004	.00005
%RSD	79.030	.85855	38.285	.27127	.13846
#1	-.00097	13.336	.00528	.01601	.03817
#2	-.00028	13.175	.00921	.01595	.03825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**3.8982**	**.00029**	**.0747**	**.00329**
Stddev	.00001	.0411	.00006	.0123	.00001
%RSD	3.3562	1.0551	18.954	16.42	.45085
#1	.00033	3.9273	.00025	.0660	.00328
#2	.00031	3.8691	.00033	.0834	.00330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01826**	**.01467**	**12.708**	**.79657**	**.00851**
Stddev	.00003	.00104	.133	.01482	.00070
%RSD	.17099	7.1195	1.0478	1.8600	8.1985
#1	.01828	.01394	12.802	.78609	.00802
#2	.01824	.01541	12.614	.80704	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121538-a-16-dSD@5 Acquired: 7/27/2017 17:39:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8641**	**.16245**	**.00028**	**.19509**	**.00760**
Stddev	.0076	.00054	.00017	.00261	.00036
%RSD	.40607	.33339	59.429	1.3375	4.7003
#1	1.8588	.16206	.00040	.19324	.00735
#2	1.8695	.16283	.00016	.19693	.00785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09055**	**.39939**	**.00145**	**-.00287**	**.82418**
Stddev	.00073	.00089	.00205	.00233	.00923
%RSD	.80772	.22338	141.88	81.051	1.1198
#1	.09107	.39876	.00290	-.00123	.83071
#2	.09003	.40002	-.00000	-.00452	.81765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01050**	**.01710**	**.45568**	**.00142**	**.02679**
Stddev	.00027	.00016	.00077	.00064	.00062
%RSD	2.5890	.95618	.16949	45.223	2.3227
#1	.01069	.01721	.45513	.00187	.02635
#2	.01031	.01698	.45623	.00097	.02723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121538-a-16-dSD@5 Acquired: 7/27/2017 17:39:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.13325
Stddev	.00161
%RSD	1.2078
#1	.13211
#2	.13439
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3684.1	2451.0	17315.	3133.5
Stddev	4.5	1.2	1.	14.2
%RSD	.12224	.04931	.00567	.45360
#1	3687.3	2451.9	17314.	3123.4
#2	3680.9	2450.2	17315.	3143.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.553%	101.95%	100.97%	100.84%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:43:03 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51120**	**24.642**	**.50309**	**.50105**	**.49380**
Stddev	.00052	.102	.00149	.00025	.00075
%RSD	.10159	.41299	.29591	.04925	.15186
#1	.51156	24.714	.50414	.50123	.49327
#2	.51083	24.570	.50204	.50088	.49433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49393**	**24.280**	**.49985**	**.0172**	**.49250**
Stddev	.00011	.001	.00046	.0349	.00160
%RSD	.02293	.00601	.09182	202.9	.32530
#1	.49385	24.281	.50017	.0419	.49137
#2	.49401	24.279	.49952	-.0075	.49364
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51541**	**.49686**	**23.448**	**24.655**	**.50127**
Stddev	.00157	.00033	.018	.014	.00228
%RSD	.30556	.06679	.07731	.05624	.45583
#1	.51429	.49663	23.435	24.664	.50289
#2	.51652	.49710	23.461	24.645	.49965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:43:03 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.854**	**.51185**	**.50690**	**24.889**	**.49780**
Stddev	.065	.00089	.00001	.060	.00156
%RSD	.26274	.17328	.00159	.24205	.31278
#1	24.808	.51122	.50691	24.931	.49670
#2	24.901	.51247	.50690	24.846	.49890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49791**	**24.811**	**.49696**	**.50066**	**23.533**
Stddev	.00156	.018	.00237	.00103	.029
%RSD	.31291	.07433	.47697	.20572	.12307
#1	.49681	24.798	.49864	.50139	23.554
#2	.49902	24.824	.49528	.49994	23.513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50491**	**.48137**	**.50014**	**.49764**	**.51408**
Stddev	.00026	.00004	.00045	.00065	.00060
%RSD	.05220	.00854	.08958	.13087	.11729
#1	.50472	.48140	.49982	.49810	.51450
#2	.50509	.48134	.50045	.49718	.51365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:43:03 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51200
Stddev	.00153
%RSD	.29846
#1	.51308
#2	.51092
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3427.2	2383.1	16725.	3146.6
Stddev	4.0	.5	31.	28.3
%RSD	.11660	.02295	.18324	.89921
#1	3430.0	2382.8	16747.	3126.6
#2	3424.4	2383.5	16703.	3166.6

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:46:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00651**	**.00279**	**-.00047**	**.00002**
Stddev	.00096	.00333	.00120	.00013	.00002
%RSD	24358.	51.190	42.886	27.651	126.15
#1	-.00068	.00415	.00363	-.00038	.00003
#2	.00068	.00887	.00194	-.00056	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00363**	**.00008**	**.0136**	**.00012**
Stddev	.00009	.00312	.00001	.0293	.00010
%RSD	267.99	85.865	8.5711	215.7	82.936
#1	-.00003	.00583	.00007	-.0071	.00005
#2	.00009	.00143	.00008	.0343	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**-.00042**	**.00015**	**-.02286**	**.00021**
Stddev	.00047	.00060	.00159	.04531	.00075
%RSD	84.632	143.94	1057.9	198.22	357.89
#1	.00089	-.00084	.00128	.00918	.00074
#2	.00022	.00001	-.00098	-.05490	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:46:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00248**	**.00011**	**.00004**	**.04510**	**.00001**
Stddev	.00196	.00010	.00023	.01687	.00021
%RSD	79.167	87.970	582.31	37.410	1993.7
#1	.00109	.00004	.00020	.03317	-.00014
#2	.00387	.00018	-.00012	.05703	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00502**	**.00081**	**-.00200**	**.02646**
Stddev	.00051	.00260	.00044	.00129	.00802
%RSD	82.093	51.714	54.590	64.316	30.321
#1	.00026	.00686	.00112	-.00109	.03213
#2	.00098	.00319	.00049	-.00291	.02078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00007**	**.00014**	**.00198**	**-.00029**
Stddev	.00015	.00001	.00026	.00079	.00062
%RSD	34.116	15.333	186.98	39.673	217.70
#1	-.00033	.00008	.00032	.00143	-.00073
#2	-.00054	.00006	-.00004	.00254	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:46:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00021
Stddev	.00050
%RSD	241.17
#1	-.00015
#2	.00056
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3769.0	2420.4	17136.	3103.0
Stddev	4.9	.4	92.	9.1
%RSD	.13075	.01828	.53656	.29469
#1	3772.5	2420.7	17201.	3109.5
#2	3765.5	2420.1	17071.	3096.6

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:49:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00596**	**.19008**	**.01762**	**.01961**	**.00204**
Stddev	.00020	.00323	.00091	.00008	.00003
%RSD	3.3741	1.7006	5.1434	.42097	1.4355
#1	.00582	.18780	.01698	.01955	.00206
#2	.00610	.19237	.01826	.01967	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**.48897**	**.00204**	**.0382**	**.00395**
Stddev	.00002	.00127	.00009	.0097	.00016
%RSD	1.1437	.25950	4.6447	25.34	4.0856
#1	.00194	.48808	.00211	.0313	.00383
#2	.00191	.48987	.00198	.0450	.00406
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**.01069**	**.04747**	**.50898**	**.02985**
Stddev	.00074	.00046	.00099	.04254	.00114
%RSD	15.360	4.3127	2.0884	8.3570	3.8055
#1	.00536	.01102	.04817	.47890	.02904
#2	.00431	.01037	.04677	.53906	.03065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:49:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19817**	**.00307**	**.00995**	**1.0324**	**.00975**
Stddev	.00218	.00006	.00009	.0124	.00003
%RSD	1.0989	2.0546	.92610	1.1991	.35769
#1	.19663	.00303	.01001	1.0237	.00977
#2	.19971	.00312	.00988	1.0412	.00972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01067**	**.19467**	**.02025**	**.02489**	**.50849**
Stddev	.00053	.00132	.00075	.00207	.02144
%RSD	4.9285	.67735	3.6846	8.3225	4.2172
#1	.01030	.19560	.01972	.02342	.52366
#2	.01104	.19374	.02078	.02635	.49333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00987**	**.00484**	**.00545**	**.02243**	**.00491**
Stddev	.00029	.00002	.00046	.00117	.00030
%RSD	2.9474	.31987	8.4643	5.2110	6.1858
#1	.00967	.00483	.00578	.02160	.00469
#2	.01008	.00486	.00512	.02325	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:49:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01148**
Stddev	.00036
%RSD	3.0995
#1	.01123
#2	.01173
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3775.9**	**2434.7**	**17228.**	**3110.0**
Stddev	3.1	4.3	25.	31.2
%RSD	.08118	.17643	.14325	1.0027
#1	3778.1	2437.7	17210.	3132.0
#2	3773.7	2431.6	17245.	3087.9

Sample Name: 480-121538-a-16-dPDS Acquired: 7/27/2017 17:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09442**	**81.344**	**.40691**	**.38143**	**.56067**
Stddev	.00092	.249	.00160	.00050	.00031
%RSD	.97012	.30562	.39407	.13036	.05511
#1	.09377	81.520	.40804	.38178	.56045
#2	.09507	81.168	.40577	.38108	.56089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38426**	**35.891**	**.38530**	**.2568**	**.39973**
Stddev	.00130	.089	.00040	.0006	.00018
%RSD	.33790	.24739	.10357	.2147	.04560
#1	.38518	35.953	.38558	.2564	.39960
#2	.38334	35.828	.38502	.2572	.39986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47482**	**.47294**	**78.369**	**22.638**	**.43577**
Stddev	.00087	.00153	.017	.170	.00227
%RSD	.18379	.32351	.02145	.74930	.52083
#1	.47544	.47185	78.381	22.758	.43737
#2	.47420	.47402	78.357	22.518	.43416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-dPDS Acquired: 7/27/2017 17:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.651**	**1.1459**	**.38361**	**19.598**	**.42562**
Stddev	.048	.0025	.00140	.100	.00069
%RSD	.17365	.22003	.36465	.51180	.16218
#1	27.617	1.1442	.38262	19.669	.42611
#2	27.685	1.1477	.38460	19.527	.42513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.84245**	**1.8995**	**.38604**	**.37920**	**4.2078**
Stddev	.00244	.0002	.00175	.00375	.0926
%RSD	.28973	.01273	.45395	.98986	2.2006
#1	.84418	1.8993	.38728	.38185	4.2733
#2	.84072	1.8997	.38480	.37654	4.1423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05505**	**.44822**	**2.5881**	**.38701**	**.53175**
Stddev	.00015	.00314	.0069	.00071	.00086
%RSD	.27320	.70008	.26671	.18394	.16224
#1	.05516	.45044	2.5930	.38751	.53236
#2	.05495	.44601	2.5833	.38651	.53114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-dPDS Acquired: 7/27/2017 17:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0105**
Stddev	.0029
%RSD	.28426
#1	1.0125
#2	1.0085
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3335.1**	**2445.0**	**17170.**	**3249.1**
Stddev	2.0	1.7	21.	20.0
%RSD	.05946	.07154	.11969	.61522
#1	3333.7	2443.7	17155.	3235.0
#2	3336.5	2446.2	17185.	3263.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.215%	101.69%	100.12%	104.56%
Range				

Sample Name: 480-121538-a-16-e ms Acquired: 7/27/2017 17:56:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09497**	**95.430**	**.39078**	**.37823**	**.65484**
Stddev	.00053	.219	.00048	.00062	.00084
%RSD	.55442	.22933	.12402	.16386	.12871
#1	.09534	95.275	.39044	.37867	.65424
#2	.09460	95.585	.39113	.37779	.65543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36840**	**36.136**	**.37800**	**.2204**	**.39565**
Stddev	.00147	.183	.00024	.0168	.00059
%RSD	.39889	.50599	.06325	7.602	.14960
#1	.36736	36.007	.37783	.2086	.39524
#2	.36944	36.266	.37817	.2323	.39607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47279**	**.45200**	**75.750**	**27.476**	**.43151**
Stddev	.00215	.00091	.358	.128	.00067
%RSD	.45455	.20147	.47290	.46651	.15489
#1	.47431	.45265	75.496	27.386	.43104
#2	.47127	.45136	76.003	27.567	.43199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-e ms Acquired: 7/27/2017 17:56:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.458**	**1.2552**	**.38217**	**19.740**	**.42551**
Stddev	.098	.0048	.00049	.052	.00091
%RSD	.35753	.38223	.12754	.26353	.21293
#1	27.528	1.2586	.38183	19.703	.42615
#2	27.389	1.2518	.38252	19.777	.42487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.78671**	**20.075**	**.32410**	**.36445**	**4.9906**
Stddev	.00021	.003	.00143	.00455	.0152
%RSD	.02630	.01373	.44139	1.2492	.30362
#1	.78686	20.073	.32511	.36767	5.0014
#2	.78657	20.076	.32309	.36123	4.9799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44826**	**.45684**	**3.0016**	**.37580**	**.54289**
Stddev	.00057	.00142	.0035	.00135	.00354
%RSD	.12654	.30985	.11663	.35902	.65291
#1	.44786	.45584	3.0041	.37485	.54540
#2	.44867	.45784	2.9991	.37676	.54038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-e ms Acquired: 7/27/2017 17:56:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0007
Stddev	.0072
%RSD	.72205
#1	1.0059
#2	.99563
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3337.1	2461.4	17106.	3293.7
Stddev	1.4	1.6	54.	36.5
%RSD	.04140	.06535	.31582	1.1071
#1	3338.1	2460.2	17068.	3319.5
#2	3336.1	2462.5	17145.	3267.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.270%	102.38%	99.750%	106.00%
Range				

Sample Name: 121538-a-16-f msd Acquired: 7/27/2017 17:59:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06066**	**105.36**	**.38348**	**.36116**	**.64714**
Stddev	.00034	.14	.00006	.00037	.00406
%RSD	.56810	.12862	.01482	.10318	.62739
#1	.06090	105.46	.38352	.36142	.64427
#2	.06041	105.27	.38344	.36090	.65001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35679**	**36.175**	**.36754**	**.3191**	**.38778**
Stddev	.00177	.021	.00081	.0223	.00077
%RSD	.49483	.05794	.21945	6.977	.19736
#1	.35804	36.190	.36811	.3033	.38833
#2	.35554	36.160	.36697	.3348	.38724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48127**	**.45006**	**80.938**	**26.700**	**.42566**
Stddev	.00075	.00099	.113	.109	.00075
%RSD	.15658	.21904	.13940	.40801	.17547
#1	.48074	.45075	80.858	26.623	.42513
#2	.48180	.44936	81.018	26.777	.42619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121538-a-16-f msd Acquired: 7/27/2017 17:59:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.073**	**1.3293**	**.37155**	**19.092**	**.42055**
Stddev	.085	.0043	.00027	.044	.00045
%RSD	.30134	.31973	.07205	.22922	.10714
#1	28.013	1.3263	.37174	19.123	.42023
#2	28.133	1.3323	.37136	19.061	.42087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82901**	**19.520**	**.29963**	**.36321**	**5.9015**
Stddev	.00024	.026	.00170	.00099	.0099
%RSD	.02841	.13256	.56676	.27299	.16801
#1	.82917	19.538	.29842	.36391	5.8944
#2	.82884	19.501	.30083	.36251	5.9085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43196**	**.44581**	**3.1300**	**.36508**	**.55696**
Stddev	.00140	.00131	.0050	.00088	.00258
%RSD	.32336	.29392	.16143	.24034	.46253
#1	.43295	.44488	3.1264	.36570	.55514
#2	.43097	.44674	3.1336	.36446	.55878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121538-a-16-f msd Acquired: 7/27/2017 17:59:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0724**
Stddev	.0084
%RSD	.78405
#1	1.0665
#2	1.0783
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3338.0**	**2468.5**	**17193.**	**3284.9**
Stddev	6.3	5.1	89.	3.6
%RSD	.18989	.20695	.51764	.10964
#1	3333.5	2464.9	17256.	3287.5
#2	3342.5	2472.1	17130.	3282.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.293%	102.68%	100.25%	105.71%
Range				

Sample Name: BLANK Acquired: 7/27/2017 18:02:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00562**	**.00481**	**-.00043**	**.00004**
Stddev	.00011	.02818	.00010	.00008	.00001
%RSD	18.379	501.64	1.9935	18.764	36.336
#1	-.00066	.02555	.00474	-.00037	.00003
#2	-.00051	-.01431	.00488	-.00048	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00670**	**-.00002**	**.0085**	**.00008**
Stddev	.00009	.00397	.00039	.0236	.00004
%RSD	81.835	59.252	2379.9	278.9	52.496
#1	.00016	.00950	-.00029	-.0082	.00011
#2	.00004	.00389	.00026	.0252	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**-.00008**	**.00463**	**.01373**	**-.00101**
Stddev	.00001	.00001	.00289	.02591	.00143
%RSD	.96504	16.328	62.453	188.71	140.70
#1	.00054	-.00008	.00259	-.00459	-.00202
#2	.00053	-.00009	.00668	.03205	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 18:02:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.00003**	**-.00001**	**.03851**	**-.00013**
Stddev	.00275	.00004	.00018	.01161	.00003
%RSD	350.36	152.24	3009.0	30.138	26.245
#1	.00116	-.00000	-.00013	.03031	-.00010
#2	-.00273	.00005	.00012	.04672	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00878**	**.00086**	**.00126**	**.00722**
Stddev	.00099	.00222	.00022	.00020	.01366
%RSD	2116.3	25.339	25.742	16.086	189.12
#1	-.00075	.00721	.00070	.00112	-.00244
#2	.00066	.01035	.00102	.00141	.01688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00013**	**.00124**	**.00218**	**-.00033**
Stddev	.00039	.00001	.00015	.00052	.00037
%RSD	72.112	10.018	12.071	23.786	110.86
#1	-.00026	.00012	.00114	.00181	-.00007
#2	-.00081	.00014	.00135	.00254	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 18:02:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00064
Stddev	.00046
%RSD	71.397
#1	.00032
#2	.00096
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3746.2	2407.1	17053.	3064.6
Stddev	6.0	4.6	70.	.1
%RSD	.15981	.19264	.41285	.00267
#1	3742.0	2403.8	17003.	3064.6
#2	3750.5	2410.4	17103.	3064.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.21%	100.12%	99.438%	98.623%
Range				

Sample Name: MB 480-368850/1-A Acquired: 7/27/2017 18:06:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.02842**	**.00088**	**.00037**	**.00069**
Stddev	.00062	.01946	.00168	.00038	.00004
%RSD	66.546	68.479	191.46	104.16	5.6347
#1	-.00050	.01466	.00206	.00064	.00072
#2	-.00138	.04218	-.00031	.00010	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.04095**	**.00018**	**.0026**	**.00027**
Stddev	.00005	.00078	.00001	.0070	.00001
%RSD	67.766	1.9108	7.8916	267.9	3.1934
#1	.00004	.04151	.00019	.0076	.00027
#2	.00011	.04040	.00017	-.0023	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00067**	**.02868**	**.01422**	**.00043**
Stddev	.00050	.00042	.00066	.06190	.00004
%RSD	62.114	62.952	2.3069	435.20	8.5205
#1	.00115	.00097	.02821	.05800	.00041
#2	.00045	.00037	.02915	-.02955	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-368850/1-A Acquired: 7/27/2017 18:06:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.00028**	**.00005**	**.07549**	**.00056**
Stddev	.00125	.00002	.00016	.00444	.00020
%RSD	63.348	5.8662	331.51	5.8833	35.760
#1	.00287	.00029	-.00006	.07863	.00042
#2	.00109	.00027	.00016	.07235	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.02365**	**.00049**	**.00037**	**.25468**
Stddev	.00139	.00001	.00067	.00435	.00644
%RSD	500.64	.04373	136.04	1171.5	2.5280
#1	-.00070	.02364	.00097	-.00270	.25923
#2	.00126	.02366	.00002	.00344	.25013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04649**	**.00021**	**.00132**	**.00117**	**-.00025**
Stddev	.00018	.00002	.00017	.00064	.00036
%RSD	.38757	7.5318	13.054	54.893	145.97
#1	.04662	.00020	.00145	.00162	.00001
#2	.04636	.00022	.00120	.00071	-.00050
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: MB 480-368850/1-A Acquired: 7/27/2017 18:06:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00179
Stddev	.00039
%RSD	22.005
#1	.00151
#2	.00207
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3820.8	2427.5	17455.	3141.4
Stddev	4.6	5.4	24.	1.8
%RSD	.12129	.22227	.13615	.05653
#1	3817.5	2423.7	17472.	3140.2
#2	3824.1	2431.3	17438.	3142.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.21%	100.97%	101.78%	101.10%
Range				

Sample Name: LCSSRM 480-368850/2- Acquired: 7/27/2017 18:09:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52438**	**93.047**	**1.8783**	**.66597**	**3.6300**
Stddev	.00163	.638	.0014	.00025	.0285
%RSD	.31021	.68548	.07169	.03774	.78465
#1	.52553	92.596	1.8792	.66615	3.6099
#2	.52323	93.498	1.8773	.66579	3.6501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95456**	**52.598**	**1.0853**	**1.462**	**2.0369**
Stddev	.00788	.497	.0003	.007	.0030
%RSD	.82531	.94518	.02658	.4784	.14662
#1	.94898	52.246	1.0850	1.457	2.0391
#2	.96013	52.949	1.0855	1.467	2.0348
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.70246**	**.75326**	**133.77**	**28.398**	**.07193**
Stddev	.00062	.00297	1.32	.262	.00003
%RSD	.08879	.39410	.98495	.92347	.04030
#1	.70202	.75536	132.84	28.213	.07191
#2	.70290	.75116	134.70	28.584	.07195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: LCSSRM 480-368850/2- Acquired: 7/27/2017 18:09:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.456**	**4.0723**	**.56113**	**5.9127**	**1.8925**
Stddev	.018	.0047	.00010	.0349	.0002
%RSD	.06169	.11600	.01786	.59096	.00869
#1	28.469	4.0690	.56120	5.8880	1.8927
#2	28.444	4.0756	.56106	5.9374	1.8924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77361**	**1.3562**	**.62992**	**.92528**	**4.2727**
Stddev	.00243	.0060	.00226	.00168	.0053
%RSD	.31439	.44257	.35812	.18148	.12460
#1	.77533	1.3605	.63152	.92409	4.2689
#2	.77189	1.3520	.62832	.92646	4.2764
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96120**	**1.3225**	**4.1165**	**1.5005**	**1.4141**
Stddev	.00061	.0098	.0004	.0004	.0074
%RSD	.06393	.74466	.00899	.02820	.52453
#1	.96076	1.3155	4.1162	1.5002	1.4089
#2	.96163	1.3294	4.1167	1.5008	1.4194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-368850/2- Acquired: 7/27/2017 18:09:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.9923**
Stddev	.0139
%RSD	.46414
#1	2.9825
#2	3.0022
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3274.4**	**2744.8**	**19263.**	**3682.5**
Stddev	2.9	1.1	62.	23.8
%RSD	.08719	.04159	.32031	.64716
#1	3272.4	2744.0	19306.	3699.4
#2	3276.4	2745.6	19219.	3665.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.593%	114.17%	112.32%	118.51%
Range				

Sample Name: 480-121619-A-1-A Acquired: 7/27/2017 18:12:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00153**	**79.062**	**.04326**	**.07885**	**.55387**
Stddev	.00074	.089	.00264	.00038	.00537
%RSD	48.330	.11234	6.0959	.48297	.97003
#1	-.00101	79.125	.04512	.07858	.55007
#2	-.00205	79.000	.04139	.07912	.55767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00350**	**150.89**	**.00230**	**.4378**	**.05210**
Stddev	.00004	.12	.00015	.0192	.00010
%RSD	1.1259	.07931	6.4631	4.395	.18713
#1	.00348	150.81	.00220	.4242	.05203
#2	.00353	150.98	.00241	.4514	.05217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10777**	**.25986**	**127.65**	**16.815**	**.09909**
Stddev	.00115	.00187	.14	.024	.00002
%RSD	1.0705	.71839	.11233	.14549	.01861
#1	.10859	.26118	127.55	16.832	.09911
#2	.10696	.25854	127.75	16.797	.09908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-1-A Acquired: 7/27/2017 18:12:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.527**	**4.2539**	**.00213**	**3.6377**	**.12200**
Stddev	.070	.0011	.00027	.0090	.00036
%RSD	.12747	.02646	12.602	.24804	.29371
#1	54.478	4.2547	.00231	3.6441	.12175
#2	54.576	4.2531	.00194	3.6314	.12226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1891**	**1.5116**	**.00153**	**.00040**	**5.6403**
Stddev	.0029	.0029	.00050	.00043	.0113
%RSD	.23948	.19351	32.471	106.38	.20073
#1	1.1871	1.5096	.00118	.00010	5.6323
#2	1.1911	1.5137	.00188	.00071	5.6483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10242**	**.20705**	**1.2890**	**-.00132**	**.17868**
Stddev	.00014	.00042	.0083	.00156	.00028
%RSD	.13479	.20302	.64070	117.94	.15517
#1	.10233	.20675	1.2949	-.00022	.17888
#2	.10252	.20735	1.2832	-.00242	.17849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-1-A Acquired: 7/27/2017 18:12:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.91518**
Stddev	.00413
%RSD	.45114
#1	.91226
#2	.91810
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3188.2**	**2690.5**	**18978.**	**3670.8**
Stddev	.8	1.9	19.	6.9
%RSD	.02553	.06961	.10168	.18908
#1	3188.8	2691.8	18965.	3665.9
#2	3187.6	2689.2	18992.	3675.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.286%	111.91%	110.67%	118.13%
Range				

Sample Name: 480-121619-A-8-A Acquired: 7/27/2017 18:16:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	**55.368**	**.04041**	**.08308**	**.44116**
Stddev	.00069	.335	.00356	.00000	.00305
%RSD	55.067	.60543	8.8111	.00236	.69233
#1	-.00077	55.131	.03790	.08308	.43900
#2	-.00175	55.605	.04293	.08308	.44332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	**232.52**	**.00212**	**.3351**	**.03320**
Stddev	.00003	1.94	.00003	.0177	.00018
%RSD	1.1955	.83311	1.6522	5.273	.53805
#1	.00239	231.15	.00214	.3226	.03332
#2	.00235	233.89	.00209	.3476	.03307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08185**	**.10112**	**83.179**	**14.405**	**.05079**
Stddev	.00060	.00060	.775	.170	.00048
%RSD	.73511	.59572	.93205	1.1778	.94879
#1	.08142	.10069	82.631	14.285	.05045
#2	.08227	.10154	83.728	14.525	.05113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-8-A Acquired: 7/27/2017 18:16:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.395**	**2.5981**	**.00170**	**1.1460**	**.07348**
Stddev	.341	.0157	.00006	.0083	.00030
%RSD	.82368	.60476	3.8182	.72736	.40608
#1	41.154	2.5870	.00174	1.1401	.07327
#2	41.636	2.6092	.00165	1.1519	.07369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8546**	**1.7014**	**-.00100**	**.00094**	**6.7294**
Stddev	.0003	.0007	.00109	.00032	.0855
%RSD	.01777	.04203	108.42	34.538	1.2709
#1	1.8544	1.7019	-.00177	.00071	6.7899
#2	1.8548	1.7009	-.00023	.00117	6.6689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06074**	**.34334**	**1.6413**	**-.00268**	**.14074**
Stddev	.00040	.00377	.0090	.00173	.00132
%RSD	.66024	1.0988	.55079	64.459	.93654
#1	.06102	.34067	1.6349	-.00146	.13980
#2	.06046	.34601	1.6477	-.00390	.14167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-8-A Acquired: 7/27/2017 18:16:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.79044**
Stddev	.00326
%RSD	.41267
#1	.78814
#2	.79275
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3165.0**	**2559.2**	**18078.**	**3506.9**
Stddev	7.3	4.9	43.	40.8
%RSD	.23096	.19341	.23704	1.1633
#1	3170.1	2562.7	18109.	3535.7
#2	3159.8	2555.7	18048.	3478.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.665%	106.45%	105.42%	112.86%
Range				

Sample Name: 480-121619-A-11-A Acquired: 7/27/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00236**	**82.686**	**.14425**	**.24703**	**.97206**
Stddev	.00048	.062	.00097	.00045	.00542
%RSD	20.387	.07525	.67273	.18098	.55794
#1	-.00271	82.642	.14356	.24672	.96822
#2	-.00202	82.730	.14493	.24735	.97589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00486**	**296.61**	**.00100**	**.4282**	**.05367**
Stddev	.00000	2.12	.00000	.0027	.00005
%RSD	.08052	.71435	.13383	.6242	.09241
#1	.00486	298.11	.00100	.4301	.05363
#2	.00486	295.12	.00100	.4263	.05370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09506**	**.21781**	**176.45**	**36.640**	**.08908**
Stddev	.00010	.00171	.05	.195	.00177
%RSD	.10843	.78684	.02623	.53271	1.9902
#1	.09513	.21902	176.42	36.502	.08782
#2	.09499	.21659	176.48	36.778	.09033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-11-A Acquired: 7/27/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.531**	**7.5659**	**.00201**	**1.3071**	**.13197**
Stddev	.149	.0190	.00016	.0060	.00088
%RSD	.53959	.25126	7.9267	.46020	.66848
#1	27.636	7.5793	.00190	1.3028	.13259
#2	27.426	7.5525	.00212	1.3113	.13135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12521**	**1.0723**	**-.00235**	**-.00393**	**22.531**
Stddev	.00391	.0004	.00036	.00243	.078
%RSD	3.1202	.03953	15.441	61.783	.34498
#1	.12797	1.0726	-.00210	-.00564	22.476
#2	.12245	1.0720	-.00261	-.00221	22.586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05334**	**.34796**	**.72552**	**-.00451**	**.15860**
Stddev	.00006	.00186	.02267	.00048	.00089
%RSD	.12157	.53522	3.1251	10.667	.56210
#1	.05339	.34664	.74155	-.00417	.15923
#2	.05329	.34928	.70949	-.00485	.15797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-11-A Acquired: 7/27/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.30890**
Stddev	.00216
%RSD	.69782
#1	.31042
#2	.30737
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3031.6**	**2706.5**	**19042.**	**3744.6**
Stddev	1.5	3.5	23.	15.2
%RSD	.05056	.12897	.11995	.40645
#1	3030.5	2709.0	19025.	3733.8
#2	3032.6	2704.0	19058.	3755.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.096%	112.57%	111.03%	120.51%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 18:23:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51074**	**24.599**	**.49971**	**.50110**	**.49232**
Stddev	.00379	.161	.00019	.00043	.00322
%RSD	.74275	.65381	.03828	.08544	.65329
#1	.51342	24.713	.49984	.50079	.49460
#2	.50806	24.485	.49957	.50140	.49005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49403**	**24.333**	**.49924**	**.0304**	**.49221**
Stddev	.00268	.134	.00016	.0147	.00082
%RSD	.54146	.55249	.03168	48.38	.16675
#1	.49592	24.428	.49935	.0200	.49279
#2	.49214	24.238	.49912	.0409	.49163
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51301**	**.49638**	**23.516**	**24.700**	**.50490**
Stddev	.00175	.00411	.159	.099	.00068
%RSD	.34040	.82860	.67529	.40090	.13464
#1	.51425	.49929	23.628	24.770	.50442
#2	.51178	.49347	23.403	24.630	.50538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 18:23:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.776**	**.51102**	**.50681**	**24.886**	**.49751**
Stddev	.146	.00324	.00016	.118	.00033
%RSD	.59043	.63404	.03138	.47324	.06593
#1	24.880	.51331	.50692	24.969	.49774
#2	24.673	.50873	.50670	24.803	.49728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49502**	**24.804**	**.49605**	**.50160**	**23.548**
Stddev	.00011	.004	.00093	.00309	.109
%RSD	.02252	.01801	.18655	.61524	.46208
#1	.49494	24.807	.49540	.49941	23.625
#2	.49510	24.801	.49671	.50378	23.471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50340**	**.48102**	**.49764**	**.49808**	**.51528**
Stddev	.00052	.00208	.00355	.00111	.00161
%RSD	.10325	.43304	.71289	.22242	.31298
#1	.50377	.48249	.50015	.49887	.51642
#2	.50303	.47955	.49514	.49730	.51414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 18:23:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51008**
Stddev	.00201
%RSD	.39331
#1	.51150
#2	.50866
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3427.6**	**2382.7**	**16822.**	**3127.5**
Stddev	.9	2.6	78.	29.4
%RSD	.02665	.11092	.46425	.94043
#1	3427.0	2380.8	16767.	3106.7
#2	3428.3	2384.6	16877.	3148.3

Sample Name: CCB-4130963 Acquired: 7/27/2017 18:26:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.01448**	**.00307**	**-.00065**	**-.00000**
Stddev	.00008	.01457	.00088	.00004	.00001
%RSD	34.867	100.66	28.684	5.8326	4491.3
#1	-.00030	-.00417	.00369	-.00062	-.00001
#2	-.00018	-.02478	.00245	-.00068	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.01071**	**.00010**	**.0065**	**.00020**
Stddev	.00003	.00049	.00005	.0055	.00009
%RSD	47.300	4.5335	51.203	85.03	46.220
#1	.00004	.01036	.00013	.0104	.00013
#2	.00009	.01105	.00006	.0026	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00001**	**.00299**	**-.00442**	**-.00106**
Stddev	.00023	.00019	.00067	.02305	.00116
%RSD	59.066	2209.8	22.293	521.09	109.95
#1	.00022	-.00014	.00346	-.02072	-.00024
#2	.00055	.00013	.00252	.01188	-.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 18:26:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**.00015**	**-.00008**	**.02728**	**.00023**
Stddev	.00196	.00011	.00005	.00881	.00008
%RSD	158.79	72.441	65.026	32.275	35.876
#1	.00015	.00023	-.00004	.03351	.00017
#2	-.00262	.00007	-.00012	.02106	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00622**	**.00049**	**-.00166**	**.02240**
Stddev	.00034	.00283	.00158	.00453	.01534
%RSD	56.982	45.448	323.52	272.82	68.466
#1	.00084	.00422	.00160	.00154	.03325
#2	.00036	.00822	-.00063	-.00486	.01156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00016**	**.00090**	**.00171**	**-.00019**
Stddev	.00031	.00005	.00049	.00071	.00016
%RSD	76.423	35.001	55.243	41.654	83.186
#1	-.00062	.00012	.00055	.00222	-.00008
#2	-.00018	.00019	.00125	.00121	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 18:26:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00044
Stddev	.00096
%RSD	217.34
#1	-.00024
#2	.00112
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3767.1	2417.6	17195.	3110.5
Stddev	6.1	3.8	89.	7.7
%RSD	.16156	.15881	.51865	.24820
#1	3762.8	2414.9	17258.	3105.1
#2	3771.4	2420.3	17132.	3116.0

Sample Name: CCVL-4147888 Acquired: 7/27/2017 18:29:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00509**	**.18468**	**.01787**	**.01986**	**.00205**
Stddev	.00045	.01177	.00033	.00018	.00001
%RSD	8.9333	6.3758	1.8502	.91843	.51327
#1	.00477	.19301	.01810	.01999	.00206
#2	.00541	.17636	.01763	.01974	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.48344**	**.00206**	**.0395**	**.00382**
Stddev	.00008	.00355	.00016	.0015	.00016
%RSD	3.7532	.73404	7.8656	3.714	4.1568
#1	.00198	.48595	.00217	.0385	.00393
#2	.00209	.48093	.00195	.0406	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00431**	**.00857**	**.04676**	**.50262**	**.02929**
Stddev	.00033	.00066	.00260	.00857	.00043
%RSD	7.5566	7.6724	5.5618	1.7052	1.4839
#1	.00408	.00904	.04860	.50868	.02960
#2	.00454	.00811	.04492	.49656	.02899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 18:29:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19251**	**.00310**	**.00989**	**1.0248**	**.00957**
Stddev	.00440	.00001	.00007	.0153	.00013
%RSD	2.2845	.39214	.69141	1.4895	1.3268
#1	.19562	.00309	.00984	1.0356	.00948
#2	.18940	.00311	.00994	1.0140	.00966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01082**	**.19498**	**.01986**	**.02453**	**.49850**
Stddev	.00185	.00071	.00208	.00157	.00683
%RSD	17.070	.36243	10.461	6.3880	1.3701
#1	.01213	.19548	.02132	.02342	.50333
#2	.00952	.19448	.01839	.02564	.49367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00890**	**.00488**	**.00520**	**.02140**	**.00477**
Stddev	.00004	.00009	.00044	.00023	.00004
%RSD	.43981	1.9283	8.5415	1.0787	.82356
#1	.00887	.00494	.00489	.02156	.00474
#2	.00892	.00481	.00551	.02124	.00479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 18:29:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01067**
Stddev	.00024
%RSD	2.2600
#1	.01050
#2	.01084
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3773.8**	**2432.5**	**17343.**	**3140.4**
Stddev	6.1	.2	2.	14.4
%RSD	.16294	.00944	.01386	.45878
#1	3778.1	2432.3	17342.	3130.2
#2	3769.4	2432.6	17345.	3150.5

Sample Name: 480-121651-A-1-A Acquired: 7/27/2017 18:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**116.59**	**.11782**	**.09549**	**.88796**
Stddev	.00010	.55	.00101	.00074	.00042
%RSD	9.4816	.47570	.85397	.77240	.04687
#1	-.00116	116.98	.11853	.09497	.88825
#2	-.00101	116.19	.11710	.09601	.88766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**72.614**	**.00702**	**.3771**	**.06655**
Stddev	.00018	.361	.00008	.0013	.00012
%RSD	3.1046	.49756	1.1106	.3518	.17584
#1	.00575	72.869	.00696	.3761	.06647
#2	.00601	72.358	.00707	.3780	.06663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20583**	**.40026**	**193.65**	**23.796**	**.17002**
Stddev	.00107	.00296	1.00	.006	.00070
%RSD	.51881	.73847	.51431	.02345	.41442
#1	.20659	.40235	194.35	23.792	.17052
#2	.20508	.39817	192.95	23.800	.16953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-1-A Acquired: 7/27/2017 18:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.719**	**3.0427**	**.01107**	**1.0721**	**.21061**
Stddev	.149	.0035	.00013	.0233	.00055
%RSD	.36577	.11384	1.1855	2.1748	.26247
#1	40.824	3.0452	.01098	1.0885	.21022
#2	40.614	3.0403	.01116	1.0556	.21100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2043**	**4.8842**	**.00221**	**.00634**	**8.0530**
Stddev	.0050	.0027	.00133	.00706	.0757
%RSD	.22506	.05448	60.381	111.48	.94018
#1	2.2008	4.8823	.00127	.00134	8.1065
#2	2.2078	4.8861	.00315	.01133	7.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10746**	**.21240**	**1.4142**	**-.00062**	**.26674**
Stddev	.00059	.00081	.0145	.00032	.00037
%RSD	.55109	.38346	1.0271	52.723	.13782
#1	.10788	.21297	1.4039	-.00085	.26700
#2	.10704	.21182	1.4244	-.00039	.26648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-1-A Acquired: 7/27/2017 18:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.8885**
Stddev	.0014
%RSD	.07285
#1	1.8895
#2	1.8876
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3220.0**	**2574.2**	**18094.**	**3431.4**
Stddev	5.0	.4	5.	23.2
%RSD	.15634	.01601	.02759	.67511
#1	3223.5	2574.5	18098.	3415.0
#2	3216.4	2573.9	18090.	3447.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.136%	107.07%	105.51%	110.43%
Range				

Sample Name: 480-121651-A-2-A Acquired: 7/27/2017 18:36:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00114**	**133.09**	**.12716**	**.10003**	**.92177**
Stddev	.00063	.03	.00172	.00031	.00296
%RSD	55.210	.02003	1.3531	.31095	.32073
#1	-.00158	133.11	.12838	.10025	.91968
#2	-.00069	133.07	.12594	.09981	.92386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00611**	**93.277**	**.00518**	**.3795**	**.07025**
Stddev	.00007	.308	.00001	.0181	.00013
%RSD	1.2274	.32983	.11303	4.777	.18840
#1	.00605	93.059	.00518	.3923	.07035
#2	.00616	93.495	.00517	.3666	.07016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19513**	**.45927**	**188.56**	**25.139**	**.19060**
Stddev	.00044	.00290	.53	.094	.00035
%RSD	.22489	.63144	.28314	.37339	.18337
#1	.19482	.45722	188.18	25.073	.19084
#2	.19544	.46132	188.94	25.205	.19035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-2-A Acquired: 7/27/2017 18:36:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.870**	**3.0209**	**.01021**	**1.2606**	**.21410**
Stddev	.121	.0026	.00027	.0102	.00043
%RSD	.27606	.08453	2.6220	.81099	.20007
#1	43.784	3.0191	.01002	1.2534	.21379
#2	43.955	3.0227	.01040	1.2679	.21440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8739**	**2.3162**	**.00116**	**.00216**	**8.3838**
Stddev	.0039	.0003	.00016	.00009	.0313
%RSD	.20869	.01306	13.364	4.2598	.37352
#1	1.8711	2.3160	.00127	.00222	8.4060
#2	1.8767	2.3164	.00105	.00209	8.3617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11534**	**.28124**	**1.5148**	**.00165**	**.28906**
Stddev	.00013	.00083	.0155	.00008	.00032
%RSD	.11555	.29386	1.0207	5.0732	.11146
#1	.11524	.28065	1.5258	.00160	.28883
#2	.11543	.28182	1.5039	.00171	.28928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-2-A Acquired: 7/27/2017 18:36:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.5242**
Stddev	.0092
%RSD	.60445
#1	1.5177
#2	1.5307
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3204.8**	**2608.8**	**18348.**	**3514.5**
Stddev	1.2	.9	61.	11.0
%RSD	.03816	.03278	.33109	.31425
#1	3205.7	2609.4	18391.	3522.3
#2	3204.0	2608.2	18305.	3506.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.731%	108.51%	106.99%	113.10%
Range				

Sample Name: 480-121651-A-3-A Acquired: 7/27/2017 18:39:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00023	78.317	.10956	.08076	1.6219
Stddev	.00031	.301	.00241	.00052	.0111
%RSD	130.49	.38452	2.2035	.64503	.68626
#1	.00002	78.530	.11127	.08039	1.6298
#2	.00045	78.104	.10786	.08112	1.6140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00564	55.025	.01566	.3086	.05942
Stddev	.00001	.162	.00001	.0084	.00010
%RSD	.16255	.29508	.08046	2.737	.16673
#1	.00565	55.140	.01567	.3146	.05949
#2	.00563	54.910	.01565	.3026	.05935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21173	.63872	187.86	13.670	.12895
Stddev	.00142	.00118	.93	.133	.00146
%RSD	.66932	.18452	.49541	.97288	1.1303
#1	.21073	.63955	188.52	13.764	.12792
#2	.21273	.63789	187.20	13.576	.12998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-A Acquired: 7/27/2017 18:39:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.684**	**3.1345**	**.01428**	**1.1770**	**.19384**
Stddev	.059	.0060	.00008	.0009	.00069
%RSD	.35593	.19113	.55944	.07634	.35634
#1	16.726	3.1387	.01422	1.1777	.19335
#2	16.642	3.1302	.01434	1.1764	.19433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2332**	**5.7814**	**.01218**	**.00802**	**4.7764**
Stddev	.0074	.0051	.00195	.00500	.0217
%RSD	.11903	.08822	15.991	62.334	.45515
#1	6.2280	5.7778	.01355	.01156	4.7918
#2	6.2384	5.7850	.01080	.00449	4.7610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30931**	**.30767**	**1.1614**	**-.00097**	**.21776**
Stddev	.00047	.00217	.0130	.00230	.00007
%RSD	.15273	.70582	1.1178	236.32	.03327
#1	.30897	.30921	1.1706	.00065	.21771
#2	.30964	.30613	1.1522	-.00259	.21781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-A Acquired: 7/27/2017 18:39:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**4.6065**
Stddev	.0179
%RSD	.38940
#1	4.6192
#2	4.5939
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3343.2**	**2560.6**	**17954.**	**3413.3**
Stddev	1.0	3.4	18.	23.9
%RSD	.03051	.13468	.10230	.70106
#1	3343.9	2563.1	17941.	3396.4
#2	3342.5	2558.2	17967.	3430.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.433%	106.51%	104.70%	109.84%
Range				

Sample Name: 480-121651-A-3-Asd@5 Acquired: 7/27/2017 18:42:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**16.658**	**.02606**	**.02318**	**.35140**
Stddev	.00111	.078	.00122	.00013	.00006
%RSD	104.15	.46717	4.6954	.54210	.01815
#1	-.00185	16.603	.02520	.02327	.35136
#2	-.00028	16.713	.02693	.02310	.35145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**11.900**	**.00347**	**.0697**	**.01173**
Stddev	.00002	.021	.00011	.0175	.00031
%RSD	1.7108	.17991	3.2416	25.05	2.6261
#1	.00128	11.885	.00355	.0820	.01151
#2	.00125	11.915	.00339	.0573	.01195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04504**	**.13054**	**40.269**	**2.8330**	**.02550**
Stddev	.00038	.00023	.256	.0331	.00087
%RSD	.85212	.17620	.63499	1.1685	3.4250
#1	.04531	.13038	40.088	2.8096	.02488
#2	.04477	.13071	40.450	2.8564	.02612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-Asd@5 Acquired: 7/27/2017 18:42:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6142**	**.66774**	**.00285**	**.26363**	**.03782**
Stddev	.0095	.00123	.00017	.00375	.00021
%RSD	.26336	.18359	5.8531	1.4228	.56367
#1	3.6074	.66860	.00274	.26098	.03797
#2	3.6209	.66687	.00297	.26628	.03767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2340**	**1.2268**	**.00213**	**-.00161**	**1.0484**
Stddev	.0022	.0042	.00093	.00131	.0032
%RSD	.17621	.34227	43.541	81.329	.30261
#1	1.2325	1.2238	.00278	-.00068	1.0462
#2	1.2355	1.2298	.00147	-.00254	1.0507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06044**	**.06607**	**.24146**	**.00294**	**.04637**
Stddev	.00014	.00049	.00061	.00077	.00126
%RSD	.23570	.73471	.25112	26.164	2.7225
#1	.06034	.06573	.24188	.00349	.04726
#2	.06054	.06642	.24103	.00240	.04548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-Asd@5 Acquired: 7/27/2017 18:42:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.99668
Stddev	.00118
%RSD	.11879
#1	.99752
#2	.99585
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3621.0	2458.5	17428.	3183.7
Stddev	2.0	.5	30.	9.5
%RSD	.05414	.02138	.17011	.29739
#1	3619.6	2458.9	17407.	3190.4
#2	3622.4	2458.1	17449.	3177.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.865%	102.26%	101.63%	102.46%
Range				

Sample Name: 480-121651-A-3-A pds Acquired: 7/27/2017 18:46:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09465**	**94.191**	**.47451**	**.42494**	**1.9305**
Stddev	.00075	.167	.00032	.00078	.0090
%RSD	.79664	.17692	.06653	.18269	.46589
#1	.09412	94.074	.47429	.42439	1.9242
#2	.09518	94.309	.47473	.42548	1.9369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37424**	**71.263**	**.39032**	**.2975**	**.45012**
Stddev	.00166	.114	.00010	.0174	.00009
%RSD	.44374	.15979	.02662	5.838	.01920
#1	.37307	71.183	.39025	.2852	.45006
#2	.37541	71.344	.39039	.3098	.45019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.58238**	**.99966**	**199.64**	**31.349**	**.50311**
Stddev	.00166	.00233	.55	.186	.00134
%RSD	.28446	.23331	.27645	.59189	.26582
#1	.58355	.99801	199.25	31.218	.50217
#2	.58120	1.0013	200.03	31.480	.50406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-A pds Acquired: 7/27/2017 18:46:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.570**	**3.4054**	**.38103**	**19.406**	**.58412**
Stddev	.070	.0078	.00015	.045	.00039
%RSD	.20161	.22801	.03898	.23063	.06632
#1	34.619	3.4109	.38114	19.374	.58385
#2	34.521	3.3999	.38093	19.437	.58440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4882**	**5.6874**	**.38561**	**.38001**	**4.5983**
Stddev	.0002	.0121	.00012	.00170	.0046
%RSD	.00295	.21297	.02986	.44640	.10034
#1	6.4881	5.6960	.38553	.38121	4.5950
#2	6.4884	5.6789	.38569	.37881	4.6016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30423**	**.65680**	**1.4939**	**.38935**	**.60301**
Stddev	.00101	.00208	.0203	.00020	.00175
%RSD	.33179	.31616	1.3585	.05248	.28942
#1	.30495	.65533	1.5082	.38921	.60425
#2	.30352	.65827	1.4795	.38950	.60178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-A pds Acquired: 7/27/2017 18:46:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**4.8396**
Stddev	.0192
%RSD	.39670
#1	4.8532
#2	4.8260
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3236.7**	**2526.9**	**17697.**	**3414.1**
Stddev	9.7	6.7	11.	6.3
%RSD	.30120	.26324	.06417	.18596
#1	3229.8	2522.2	17689.	3418.6
#2	3243.6	2531.6	17705.	3409.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.585%	105.10%	103.20%	109.87%
Range				

Sample Name: 480-121651-A-3-B MS Acquired: 7/27/2017 18:49:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08865	145.03	.46662	.46246	2.2247
Stddev	.00012	.11	.00194	.00047	.0050
%RSD	.13278	.07622	.41631	.10225	.22474
#1	.08874	144.95	.46525	.46212	2.2212
#2	.08857	145.11	.46800	.46279	2.2283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.34544	75.174	.36591	.3900	.44677
Stddev	.00060	.120	.00013	.0364	.00050
%RSD	.17272	.16002	.03502	9.327	.11234
#1	.34501	75.089	.36582	.4157	.44641
#2	.34586	75.259	.36600	.3643	.44712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.61654	1.0540	229.56	44.008	.51926
Stddev	.00151	.0014	.27	.049	.00038
%RSD	.24434	.13364	.11767	.11139	.07386
#1	.61548	1.0550	229.37	43.974	.51899
#2	.61761	1.0530	229.75	44.043	.51953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-B MS Acquired: 7/27/2017 18:49:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.279**	**4.1408**	**.36106**	**19.370**	**.61440**
Stddev	.148	.0067	.00087	.035	.00050
%RSD	.37778	.16244	.24080	.18228	.08184
#1	39.384	4.1455	.36167	19.345	.61475
#2	39.174	4.1360	.36044	19.395	.61404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3246**	**23.039**	**.28391**	**.34801**	**4.9020**
Stddev	.0004	.004	.00398	.00397	.0138
%RSD	.00616	.01667	1.4007	1.1411	.28140
#1	7.3250	23.036	.28672	.35082	4.8923
#2	7.3243	23.042	.28110	.34520	4.9118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76265**	**.70743**	**2.5717**	**.36153**	**.68041**
Stddev	.00022	.00194	.0004	.00009	.00140
%RSD	.02909	.27361	.01426	.02424	.20573
#1	.76281	.70606	2.5720	.36159	.67942
#2	.76250	.70880	2.5715	.36147	.68140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-B MS Acquired: 7/27/2017 18:49:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**5.0305**
Stddev	.0098
%RSD	.19430
#1	5.0374
#2	5.0236
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3169.8**	**2566.4**	**17990.**	**3478.5**
Stddev	.7	3.3	16.	10.0
%RSD	.02363	.12703	.08981	.28629
#1	3169.2	2564.1	17979.	3485.5
#2	3170.3	2568.7	18002.	3471.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.793%	106.75%	104.90%	111.94%
Range				

Sample Name: 480-121651-A-3-C MSD Acquired: 7/27/2017 18:52:47 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08833	140.69	.46253	.47591	2.1254
Stddev	.00045	1.59	.00127	.00020	.0113
%RSD	.51364	1.1290	.27543	.04242	.52977
#1	.08801	139.57	.46343	.47577	2.1174
#2	.08865	141.81	.46163	.47606	2.1334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.34351	74.402	.36642	.3800	.45069
Stddev	.00290	.622	.00106	.0106	.00061
%RSD	.84308	.83539	.29027	2.792	.13623
#1	.34146	73.962	.36567	.3875	.45026
#2	.34556	74.841	.36718	.3725	.45113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.60986	1.0112	230.29	43.465	.51124
Stddev	.00273	.0045	1.07	.294	.00375
%RSD	.44789	.44509	.46427	.67757	.73357
#1	.60793	1.0080	229.53	43.257	.50858
#2	.61179	1.0144	231.04	43.673	.51389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-C MSD Acquired: 7/27/2017 18:52:47 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.782**	**3.7271**	**.36088**	**19.256**	**.59903**
Stddev	.125	.0132	.00073	.149	.00038
%RSD	.33093	.35514	.20242	.77640	.06294
#1	37.694	3.7177	.36140	19.150	.59876
#2	37.870	3.7365	.36037	19.362	.59929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6994**	**22.591**	**.28664**	**.34652**	**5.3987**
Stddev	.0029	.011	.00275	.00528	.0250
%RSD	.04356	.04918	.96090	1.5248	.46251
#1	6.6974	22.599	.28859	.35026	5.3810
#2	6.7015	22.583	.28469	.34279	5.4163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76240**	**.68873**	**2.4908**	**.36613**	**.66683**
Stddev	.00105	.00318	.0081	.00320	.00049
%RSD	.13823	.46133	.32518	.87380	.07334
#1	.76165	.68649	2.4851	.36387	.66649
#2	.76314	.69098	2.4965	.36839	.66718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-C MSD Acquired: 7/27/2017 18:52:47 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**4.9100**
Stddev	.0154
%RSD	.31361
#1	4.8991
#2	4.9209
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3171.8**	**2561.4**	**17856.**	**3469.6**
Stddev	6.2	4.2	13.	20.9
%RSD	.19447	.16478	.07165	.60180
#1	3176.2	2564.4	17865.	3484.4
#2	3167.5	2558.4	17847.	3454.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.848%	106.54%	104.12%	111.66%
Range				

Sample Name: 480-121651-A-4-A Acquired: 7/27/2017 18:56:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00131**	**71.575**	**.09977**	**.05748**	**1.4343**
Stddev	.00043	.294	.00383	.00009	.0073
%RSD	33.044	.41108	3.8386	.15499	.50589
#1	-.00162	71.783	.10248	.05742	1.4394
#2	-.00100	71.367	.09707	.05755	1.4292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00573**	**45.670**	**.00998**	**.4200**	**.06307**
Stddev	.00001	.218	.00005	.0134	.00003
%RSD	.24139	.47711	.45429	3.188	.04057
#1	.00572	45.824	.00994	.4105	.06308
#2	.00574	45.516	.01001	.4294	.06305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16195**	**.59538**	**134.21**	**11.763**	**.13315**
Stddev	.00017	.00515	.52	.053	.00144
%RSD	.10198	.86566	.38738	.45134	1.0836
#1	.16184	.59173	134.58	11.800	.13417
#2	.16207	.59902	133.84	11.725	.13213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-4-A Acquired: 7/27/2017 18:56:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.118**	**2.8387**	**.01554**	**2.0564**	**.16869**
Stddev	.033	.0097	.00014	.0096	.00014
%RSD	.26818	.34236	.87762	.46760	.08214
#1	12.095	2.8318	.01544	2.0632	.16879
#2	12.141	2.8456	.01564	2.0496	.16859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6394**	**2.8230**	**.00852**	**.00274**	**6.2894**
Stddev	.0045	.0100	.00091	.00185	.0381
%RSD	.09755	.35413	10.710	67.609	.60508
#1	4.6362	2.8160	.00916	.00405	6.2625
#2	4.6426	2.8301	.00787	.00143	6.3163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24233**	**.41117**	**1.3712**	**-.00128**	**.20322**
Stddev	.00139	.00239	.0041	.00065	.00055
%RSD	.57388	.58188	.29983	50.329	.27041
#1	.24135	.41286	1.3683	-.00174	.20361
#2	.24331	.40947	1.3741	-.00083	.20283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-4-A Acquired: 7/27/2017 18:56:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.7539**
Stddev	.0119
%RSD	.43157
#1	2.7623
#2	2.7455
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3391.8**	**2652.8**	**18699.**	**3517.9**
Stddev	1.7	3.2	17.	10.8
%RSD	.04885	.12068	.09162	.30757
#1	3392.9	2655.0	18711.	3510.2
#2	3390.6	2650.5	18687.	3525.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.732%	110.34%	109.04%	113.21%
Range				

Sample Name: 480-121651-A-5-A Acquired: 7/27/2017 18:59:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00111	86.938	.16359	.06909	4.2536
Stddev	.00048	.299	.00092	.00014	.0350
%RSD	43.270	.34385	.55941	.20974	.82337
#1	.00077	86.727	.16424	.06899	4.2288
#2	.00146	87.150	.16295	.06919	4.2784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00669	44.882	.01473	.3631	.07504
Stddev	.00001	.356	.00015	.0031	.00030
%RSD	.14639	.79406	1.0274	.8449	.39400
#1	.00669	44.630	.01462	.3609	.07525
#2	.00668	45.134	.01484	.3653	.07483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.26424	.75734	190.98	12.561	.15299
Stddev	.00041	.00595	1.79	.171	.00003
%RSD	.15680	.78624	.93809	1.3652	.02259
#1	.26454	.75313	189.72	12.440	.15296
#2	.26395	.76156	192.25	12.683	.15301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-5-A Acquired: 7/27/2017 18:59:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.604**	**3.2902**	**.01410**	**1.2158**	**.21963**
Stddev	.031	.0063	.00011	.0013	.00022
%RSD	.18936	.19021	.74942	.10511	.09897
#1	16.582	3.2858	.01418	1.2167	.21978
#2	16.626	3.2947	.01403	1.2149	.21948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7044**	**4.5976**	**.01379**	**.01065**	**4.6143**
Stddev	.0203	.0017	.00006	.00071	.0160
%RSD	.26398	.03684	.44904	6.6803	.34630
#1	7.6900	4.5964	.01383	.01015	4.6030
#2	7.7188	4.5988	.01374	.01115	4.6256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41289**	**.35441**	**1.4114**	**-.00042**	**.28017**
Stddev	.00076	.00338	.0131	.00093	.00023
%RSD	.18388	.95233	.93044	219.61	.08277
#1	.41342	.35202	1.4022	-.00108	.28034
#2	.41235	.35680	1.4207	.00023	.28001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-5-A Acquired: 7/27/2017 18:59:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**7.3112**
Stddev	.0011
%RSD	.01504
#1	7.3119
#2	7.3104
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3352.4**	**2599.5**	**18233.**	**3434.7**
Stddev	2.2	5.1	3.	48.4
%RSD	.06558	.19561	.01473	1.4085
#1	3350.8	2595.9	18231.	3468.9
#2	3353.9	2603.1	18235.	3400.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.678%	108.12%	106.32%	110.53%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 19:02:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50793**	**24.628**	**.50100**	**.49962**	**.49163**
Stddev	.00039	.178	.00062	.00019	.00083
%RSD	.07642	.72292	.12380	.03753	.16949
#1	.50820	24.502	.50144	.49949	.49104
#2	.50765	24.754	.50056	.49975	.49222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49467**	**24.322**	**.49894**	**.0081**	**.49272**
Stddev	.00325	.146	.00023	.0295	.00096
%RSD	.65690	.60045	.04691	365.5	.19569
#1	.49238	24.219	.49878	-.0128	.49203
#2	.49697	24.425	.49911	.0289	.49340
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51374**	**.49880**	**23.492**	**24.816**	**.50683**
Stddev	.00130	.00305	.096	.187	.00396
%RSD	.25270	.61136	.40965	.75356	.78062
#1	.51466	.49665	23.424	24.684	.50404
#2	.51283	.50096	23.560	24.948	.50963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 19:02:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.770**	**.51041**	**.50466**	**25.003**	**.49737**
Stddev	.056	.00068	.00010	.181	.00128
%RSD	.22418	.13236	.02000	.72222	.25774
#1	24.730	.50993	.50473	24.876	.49646
#2	24.809	.51089	.50459	25.131	.49827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49598**	**24.785**	**.49645**	**.50222**	**23.574**
Stddev	.00333	.005	.00199	.00171	.191
%RSD	.67179	.01896	.40066	.34126	.80978
#1	.49363	24.781	.49504	.50343	23.439
#2	.49834	24.788	.49785	.50101	23.709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50229**	**.48273**	**.49972**	**.49781**	**.51340**
Stddev	.00029	.00233	.00043	.00078	.00144
%RSD	.05707	.48214	.08605	.15655	.28114
#1	.50209	.48109	.49941	.49726	.51238
#2	.50249	.48438	.50002	.49836	.51442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 19:02:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50951
Stddev	.00017
%RSD	.03349
#1	.50963
#2	.50939
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3444.4	2398.0	16881.	3152.9
Stddev	9.4	3.5	3.	20.7
%RSD	.27187	.14414	.01741	.65518
#1	3451.0	2400.4	16879.	3167.5
#2	3437.7	2395.5	16883.	3138.3

Sample Name: CCB-4130963 Acquired: 7/27/2017 19:05:48 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.00039**	**.00049**	**-.00023**	**.00004**
Stddev	.00048	.02727	.00141	.00015	.00000
%RSD	38.843	6997.7	285.93	64.621	5.5401
#1	-.00090	.01967	.00149	-.00012	.00004
#2	-.00158	-.01889	-.00051	-.00033	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00230**	**.00010**	**.0152**	**.00028**
Stddev	.00006	.00152	.00006	.0277	.00007
%RSD	206.09	66.043	61.544	182.5	25.674
#1	-.00001	.00338	.00014	.0347	.00023
#2	.00007	.00123	.00006	-.0044	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00104**	**.00272**	**-.00861**	**-.00257**
Stddev	.00002	.00021	.00223	.01977	.00012
%RSD	7.2714	19.839	81.976	229.55	4.7235
#1	.00035	-.00090	.00430	.00537	-.00266
#2	.00032	-.00119	.00114	-.02259	-.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 19:05:48 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00218**	**.00005**	**-.00003**	**.03205**	**.00010**
Stddev	.00055	.00001	.00005	.00097	.00014
%RSD	25.005	13.791	145.65	3.0300	135.40
#1	.00257	.00004	.00000	.03274	.00021
#2	.00180	.00005	-.00006	.03137	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**.00540**	**.00015**	**-.00305**	**.02156**
Stddev	.00016	.00062	.00174	.00145	.00096
%RSD	9.1129	11.490	1166.6	47.414	4.4579
#1	.00188	.00584	.00138	-.00203	.02088
#2	.00166	.00496	-.00108	-.00407	.02224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00016**	**.00044**	**.00169**	**-.00028**
Stddev	.00019	.00010	.00038	.00021	.00050
%RSD	61.794	62.652	86.874	12.420	180.82
#1	-.00018	.00009	.00071	.00184	.00008
#2	-.00045	.00023	.00017	.00154	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 19:05:48 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00017
Stddev	.00062
%RSD	361.09
#1	-.00027
#2	.00061
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3783.3	2430.0	17234.	3106.9
Stddev	4.0	4.6	9.	2.7
%RSD	.10588	.18766	.05272	.08535
#1	3780.5	2426.7	17240.	3108.8
#2	3786.1	2433.2	17227.	3105.0

Sample Name: CCVL-4147888 Acquired: 7/27/2017 19:09:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00486**	**.20020**	**.01613**	**.01985**	**.00208**
Stddev	.00000	.00808	.00068	.00001	.00003
%RSD	.00432	4.0383	4.2456	.04867	1.2415
#1	.00486	.19449	.01662	.01984	.00206
#2	.00486	.20592	.01565	.01985	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.48503**	**.00210**	**.0306**	**.00397**
Stddev	.00003	.00061	.00016	.0171	.00001
%RSD	1.2210	.12487	7.6167	55.84	.29685
#1	.00206	.48546	.00221	.0427	.00396
#2	.00209	.48460	.00199	.0185	.00398
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00497**	**.01017**	**.04927**	**.47188**	**.02914**
Stddev	.00050	.00155	.00119	.02396	.00079
%RSD	9.9873	15.257	2.4181	5.0784	2.7011
#1	.00532	.01127	.05011	.45493	.02970
#2	.00462	.00907	.04843	.48882	.02859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 19:09:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19834**	**.00300**	**.00992**	**1.0154**	**.00981**
Stddev	.00271	.00001	.00007	.0052	.00014
%RSD	1.3662	.34129	.72725	.51242	1.3971
#1	.20025	.00300	.00997	1.0118	.00971
#2	.19642	.00299	.00987	1.0191	.00990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01051**	**.19341**	**.02043**	**.02139**	**.49367**
Stddev	.00072	.00227	.00019	.00280	.01054
%RSD	6.8239	1.1756	.93448	13.090	2.1355
#1	.01102	.19180	.02029	.01941	.50112
#2	.01000	.19502	.02056	.02337	.48621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00901**	**.00497**	**.00574**	**.02110**	**.00449**
Stddev	.00071	.00001	.00061	.00029	.00065
%RSD	7.8251	.17652	10.604	1.3553	14.456
#1	.00851	.00497	.00531	.02130	.00403
#2	.00951	.00498	.00617	.02090	.00495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 19:09:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01045**
Stddev	.00017
%RSD	1.5891
#1	.01057
#2	.01034
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3778.3**	**2441.1**	**17380.**	**3142.9**
Stddev	2.3	1.5	81.	5.9
%RSD	.06037	.06194	.46635	.18796
#1	3779.9	2442.2	17437.	3138.8
#2	3776.7	2440.0	17323.	3147.1

Sample Name: 480-121667-A-1-B Acquired: 7/27/2017 19:12:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00189**	**54.678**	**.03593**	**.00808**	**.20800**
Stddev	.00049	.032	.00082	.00041	.00011
%RSD	25.713	.05770	2.2749	5.0753	.05129
#1	-.00223	54.700	.03651	.00837	.20792
#2	-.00154	54.655	.03535	.00779	.20807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00260**	**20.470**	**.00170**	**.3216**	**.04875**
Stddev	.00009	.061	.00002	.0075	.00011
%RSD	3.3661	.29694	1.3001	2.339	.23150
#1	.00254	20.427	.00172	.3163	.04883
#2	.00266	20.513	.00169	.3269	.04867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13471**	**.10163**	**81.876**	**5.9127**	**.07460**
Stddev	.00083	.00067	.590	.0182	.00041
%RSD	.61568	.66111	.72115	.30733	.55353
#1	.13530	.10210	81.458	5.8999	.07431
#2	.13413	.10115	82.293	5.9256	.07489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121667-A-1-B Acquired: 7/27/2017 19:12:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.408**	**1.2375**	**.00169**	**1.4830**	**.09244**
Stddev	.048	.0045	.00003	.0065	.00018
%RSD	.20358	.36710	2.0292	.44043	.19688
#1	23.442	1.2407	.00167	1.4783	.09257
#2	23.374	1.2343	.00171	1.4876	.09231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

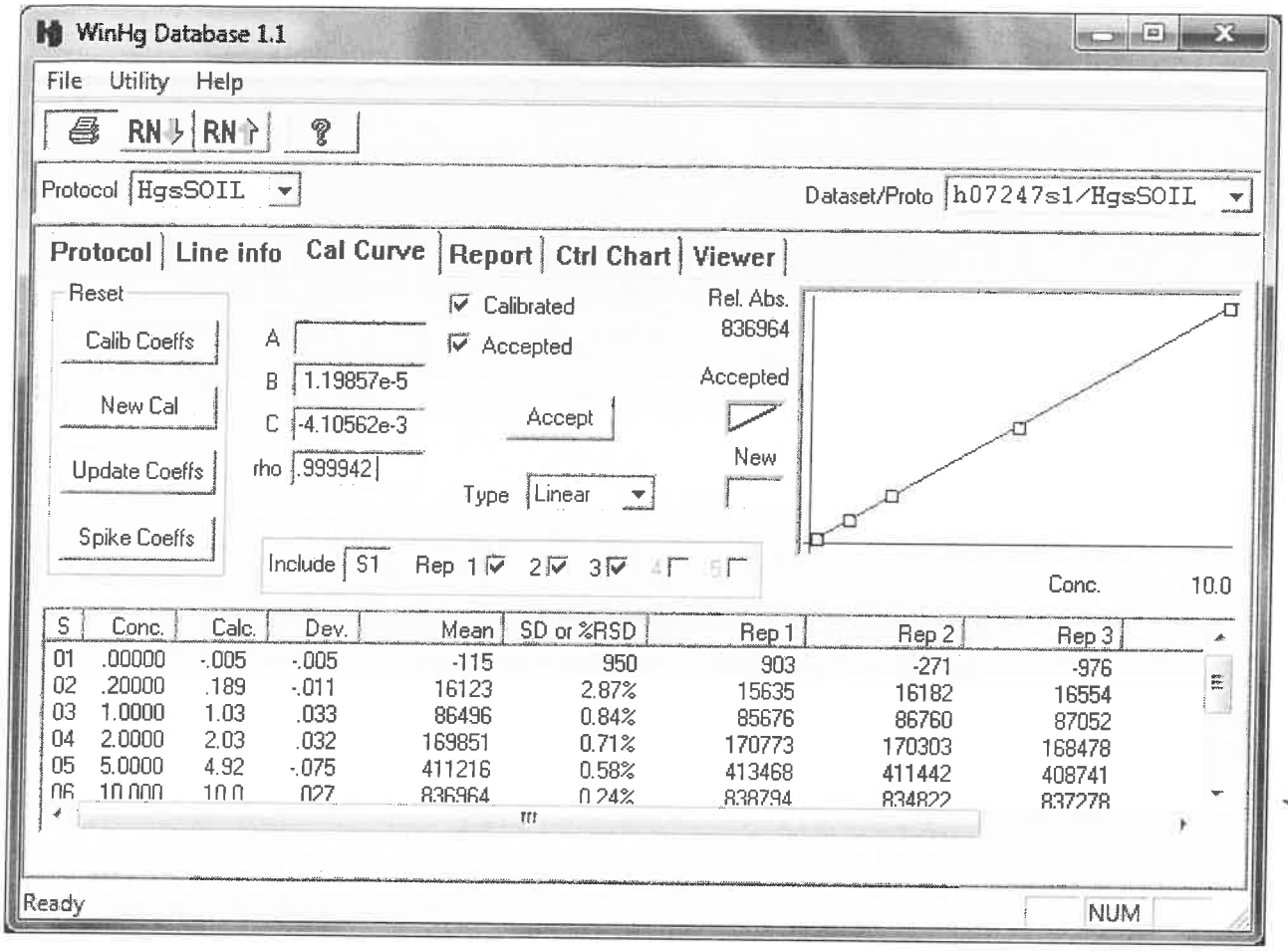
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30405**	**3.6380**	**.00066**	**-.00110**	**2.3286**
Stddev	.00092	.0002	.00063	.00150	.0290
%RSD	.30310	.00491	95.360	136.00	1.2447
#1	.30471	3.6379	.00022	-.00004	2.3491
#2	.30340	3.6382	.00111	-.00216	2.3081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06019**	**.10986**	**4.9554**	**-.00355**	**.23628**
Stddev	.00036	.00088	.0036	.00149	.00064
%RSD	.59795	.80379	.07284	42.073	.26950
#1	.05994	.10924	4.9580	-.00249	.23673
#2	.06045	.11049	4.9529	-.00460	.23582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121667-A-1-B Acquired: 7/27/2017 19:12:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.28781
Stddev	.00147
%RSD	.51012
#1	.28885
#2	.28678
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3473.2	2582.1	18261.	3428.6
Stddev	1.8	2.6	8.	23.0
%RSD	.05128	.10083	.04436	.66980
#1	3471.9	2580.3	18255.	3444.8
#2	3474.4	2583.9	18266.	3412.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.909%	107.40%	106.48%	110.34%
Range				



L2

7/24/17

4154441

Cal: H07247cs
Run: H07247s1
Batch: 368382

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

4154440

*** Check Standard: 2 Ck2ICV Seq: 1 14:38:42 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.4	2.83	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB BB 07-24-17 Seq: 2 14:40:24 24 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.012	.200	ppb	.000

*** Check Standard: 4 Ck4ICVL BB 07-24-17 Seq: 3 14:42:24 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	.202	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 14:43:44 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.3	1.95	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 14:45:36 24 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.021	.200	ppb	.000

*** Sample ID: Seq: 6 14:47:37 24 Jul 17 HG
MB 480-368382/1-A

Hg	.016	ppb	.000	.016

*** Sample ID: Seq: 7 14:48:56 24 Jul 17 HG
LCSSRM 480-368382/2- at 10 BB 07-24-17

Hg	3.71	ppb	.000	3.71

*** Sample ID: Seq: 8 14:50:28 24 Jul 17 HG
LCDSRM 480-368382/3- at 10 BB07-24-17

Hg	3.66	ppb	.000	3.66

*** Sample ID: Seq: 9 14:52:01 24 Jul 17 HG
480-121321-B-1-B

Hg	.549	ppb	.000	.549

*** Sample ID: Seq: 10 14:53:32 24 Jul 17 HG
480-121321-A-2-D

Hg	.356	ppb	.000	.356

*** Sample ID: Seq: 11 14:54:52 24 Jul 17 HG
480-121321-A-3-D

Hg	.821	ppb	.000	.821

*** Sample ID: Seq: 12 14:56:27 24 Jul 17 HG
480-121321-A-4-H

Hg	.229	ppb	.000	.229

*** Sample ID: Seq: 13 14:57:52 24 Jul 17 HG
480-121321-A-4-Hsd@5

Hg	.050	ppb	.000	.050

*** Sample ID: Seq: 14 14:59:15 24 Jul 17 HG
480-121321-B-4-F MS

Hg	4.34	ppb	.000	4.34

*** Sample ID: Seq: 15 15:01:37 24 Jul 17 HG
480-121321-B-4-G MSD

Hg	4.20	ppb	.000	4.20

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 15:02:57 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.6	1.91	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 15:04:38 24 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.026	.200	ppb	.000

*** Sample ID: Seq: 18 15:06:14 24 Jul 17 HG
480-121321-B-5-C

Hg	.306	ppb	.000	.306

*** Sample ID: Seq: 19 15:07:34 24 Jul 17 HG
480-121321-B-6-C

Hg	.275	ppb	.000	.275

*** Sample ID: Seq: 20 15:09:34 24 Jul 17 HG
480-121411-C-1-A

Hg	2.29	ppb	.000	2.29

*** Sample ID: Seq: 21 15:11:18 24 Jul 17 HG
480-121411-C-2-A

Hg	.399	ppb	.000	.399

*** Sample ID: Seq: 22 15:12:50 24 Jul 17 HG
480-121411-C-3-A

Hg	.219	ppb	.000	.219

*** Sample ID: Seq: 23 15:14:11 24 Jul 17 HG
480-121411-C-3-B MS

Hg	4.39	ppb	.000	4.39

*** Sample ID: Seq: 24 15:15:31 24 Jul 17 HG
480-121411-C-3-C MSD

Hg	4.38	ppb	.000	4.38

*** Sample ID: Seq: 25 15:16:53 24 Jul 17 HG
480-121411-C-4-A

Hg	2.88	ppb	.000	2.88

*** Sample ID: Seq: 26 15:18:15 24 Jul 17 HG
480-121419-C-1-A

Hg	.399	ppb	.000	.399

*** Sample ID: Seq: 27 15:20:19 24 Jul 17 HG
480-121419-C-2-A

Hg	.907	ppb	.000	.907

*** Check Standard: 3 Ck3CCV Seq: 28 15:21:41 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.9	1.90	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 15:23:34 24 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.006	.200	ppb	.000

*** Sample ID: Seq: 30 15:25:25 24 Jul 17 HG
480-121419-C-3-A

Hg	1.01	ppb	.000	1.01

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 15:26:53 24 Jul 17 HG
480-121419-D-4-A

Hg	.853	ppb	.000	.853				

*** Sample ID: Seq: 32 15:28:33 24 Jul 17 HG
480-121420-D-1-A

Hg	1.18	ppb	.000	1.18				

*** Sample ID: Seq: 33 15:29:53 24 Jul 17 HG
480-121253-A-1-G

Hg	1.58	ppb	.000	1.58				

*** Sample ID: Seq: 34 15:32:07 24 Jul 17 HG
480-121253-B-6-E

Hg	3.08	ppb	.000	3.08				

*** Check Standard: 3 Ck3CCV Seq: 35 15:34:20 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.8	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 36 15:35:45 24 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.010	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 37 15:37:07 24 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		86.4	.173	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368425 Batch Start Date: 07/24/17 17:04 Batch Analyst: Bauer, Elizabeth M

Batch Method: 3050B Batch End Date: 07/25/17 00:13

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MED_01_Si 00099	MED_01_W1 00044	MED_02_W2 00040
MB 480-368425/1		3050B, 6010C		CALC NOT SET TO RUN	+0.5420 g	50 mL			
LCSSRM 480-368425/2		3050B, 6010C		CALC NOT SET TO RUN	+0.4967 g	50 mL			
480-121411-C-1	TP-07	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4789 g	50 mL			
480-121411-C-2	TP-09	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4596 g	50 mL			
480-121411-C-3	TP-15	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5315 g	50 mL			
480-121411-C-3 MS	TP-15	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5082 g	50 mL	0.5 mL	0.5 mL	0.5 mL
480-121411-C-3 MSD	TP-15	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4846 g	50 mL	0.5 mL	0.5 mL	0.5 mL
480-121411-C-4	DUP	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4624 g	50 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_03_Ag 00113	MED_04_Sn 00101	MED_05_S 00058	MED_SRM_D087 00004		
MB 480-368425/1		3050B, 6010C							
LCSSRM 480-368425/2		3050B, 6010C					+0.4967 g		
480-121411-C-1	TP-07	3050B, 6010C	T						
480-121411-C-2	TP-09	3050B, 6010C	T						
480-121411-C-3	TP-15	3050B, 6010C	T						
480-121411-C-3 MS	TP-15	3050B, 6010C	T	0.5 mL	0.5 mL	0.5 mL			
480-121411-C-3 MSD	TP-15	3050B, 6010C	T	0.5 mL	0.5 mL	0.5 mL			
480-121411-C-4	DUP	3050B, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368425 Batch Start Date: 07/24/17 17:04 Batch Analyst: Bauer, Elizabeth M

Batch Method: 3050B Batch End Date: 07/25/17 00:13

Batch Notes	
Balance ID	25850472
Batch Comment	70227752(Push Filters)
Blank Soil Lot Number	3978954
First End time	0013
Hydrogen Peroxide ID	40948897
Lot # of hydrochloric acid	4120007
Lot # of Nitric Acid	4106408
Hot Block ID	F
Oven, Bath or Block Temperature 1	93.5 Degrees C
Oven, Bath or Block Temperature 2	Auto Degrees C
Pipette ID	MDL4
First Start time	1704
Thermometer ID	151913830
Digestion Tube/Cup ID	1703076
Uncorrected Temperature	93.2 Celsius
Uncorrected Temperature 2	Auto Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368382 Batch Start Date: 07/24/17 12:35 Batch Analyst: Bauer, Elizabeth M

Batch Method: 7471B Batch End Date: 07/24/17 13:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_SRM_D087 00006	MEH_HG1_WKG 01536		
MB 480-368382/1		7471B, 7471B		+0.6137 g	50 mL				
LCSSRM 480-368382/2		7471B, 7471B		+0.1599 g	50 mL	+0.1599 g			
LCDSRM 480-368382/3		7471B, 7471B		+0.1601 g	50 mL	+0.1601 g			
480-121411-C-1	TP-07	7471B, 7471B	T	+0.6364 g	50 mL				
480-121411-C-2	TP-09	7471B, 7471B	T	+0.6171 g	50 mL				
480-121411-C-3	TP-15	7471B, 7471B	T	+0.5949 g	50 mL				
480-121411-C-3 MS	TP-15	7471B, 7471B	T	+0.6449 g	50 mL		2 mL		
480-121411-C-3 MSD	TP-15	7471B, 7471B	T	+0.6040 g	50 mL		2 mL		
480-121411-C-4	DUP	7471B, 7471B	T	+0.6286 g	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride ID	4011386
Batch Comment	1 & 2 Prep 0830
Digestion End Time	1305
Digestion Start Time	1235
Lot # of hydrochloric acid	4012715
Lot # of Nitric Acid	4059485
Hot Block ID	HG-B
Potassium Permanganate ID	4077814
Oven, Bath or Block Temperature 1	95.9
Pipette ID	AN-6 for Std 1+2
Stannous Chloride ID	4060686
Thermometer ID	160510054
Digestion Tube/Cup ID	1605323
Uncorrected Temperature	96.1 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG No.:

Project: Nash Rd. Wheatfield #932054

Client Sample ID	Lab Sample ID
TP-07	480-121411-1
TP-09	480-121411-2
TP-15	480-121411-3
DUP	480-121411-4

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-121411-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 07/21/2017 04:48 End Date: 07/21/2017 04:48

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			04:48																				
ZZZZZZ			04:48																				
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ZZZZZZ			04:48																				
480-121411-1	1	T	04:48	X	X																		
480-121411-2	1	T	04:48	X	X																		
480-121411-3	1	T	04:48	X	X																		
480-121411-3 MS	1	T	04:48	X	X																		
480-121411-3 MSD	1	T	04:48	X	X																		
480-121411-4	1	T	04:48	X	X																		
ZZZZZZ			04:48																				
ZZZZZZ			04:48																				
ZZZZZZ			04:48																				
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13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 07/21/2017 04:48 End Date: 07/21/2017 04:48

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121411-1

SDG No.:

Batch Number: 368023 Batch Start Date: 07/21/17 04:48 Batch Analyst: Williams, Christopher S

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-121411-A-1	TP-07	Moisture	T	24	4.30 g	12.92 g	11.12 g		
480-121411-A-2	TP-09	Moisture	T	25	4.30 g	11.75 g	10.43 g		
480-121411-A-3	TP-15	Moisture	T	26	4.30 g	12.09 g	10.80 g		
480-121411-A-3 MS	TP-15	Moisture	T	26	4.30 g	12.09 g	10.80 g		
480-121411-A-3 MSD	TP-15	Moisture	T	26	4.30 g	12.09 g	10.80 g		
480-121411-A-4	DUP	Moisture	T	27	4.30 g	12.81 g	10.99 g		

Batch Notes	
Batch Comment	PP-F-9B-16
Date samples were placed in the oven	21JULY2017
Oven Temp In	107 Degrees C
Time samples were place in the oven	0455

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228

Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

202412

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Craig Taylor	Site Contact:	Date:	COC No:
Company Name: LiRo	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 690 Delaware Ave	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14209	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716 882 5419	TAT if different from Below 10			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: NASH Rd Wheatfield	☐ 1 week			
Site: #932054	☐ 2 days			Job / SDG No.:
P O # 4800796Z	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	6010C TAL Metal	7471B Mercury	8081B TCL Pest	8082A TCL PCBs	8270D TCL SVOC	8260C TCL VOC	Sample Specific Notes:
TP-07	7/20/17	0900	C	So.1	4									
TP-09		1030												
TP-15		1500												
DUP		—												
MS/MSD TP-15		1500			8									

480-121411 COC

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.1 Corr'd: _____ | Therm ID No.: IR-1

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	LiRo	7/20/17 1700		TestAmerica	7/20/17 1700
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

08/03/2017

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-121411-1

Login Number: 121411
List Number: 1
Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LIRO
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-121501-1

Job Description: Nash Rd. Wheatfield #932054

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, NY 14203

Attention: Mr. Glenn May

Approved for release.
Orlette S Johnson
Senior Project Manager
8/4/2017 8:09 PM

Orlette S Johnson, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0864
orlette.johnson@testamericainc.com
08/04/2017

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Job Number: 480-121501-1

Job Description: Nash Rd. Wheatfield #932054

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Approved for release.
Orlette S Johnson
Senior Project Manager
8/4/2017 8:09 PM

Orlette S Johnson

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Job Narrative
480-121501-1

Receipt
The samples were received on 7/21/2017 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-368916 recovered above the upper control limit for 2-Hexanone, Chloroethane, 4-Methyl-2-pentanone (MIBK), Trichlorofluoromethane, 2-Butanone (MEK) and Bromomethane . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TP-13 (480-121501-1), TP-12 (480-121501-2) and DUP (480-121501-6).

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 480-368925 and analytical batch 480-368916 recovered outside control limits for the following analytes: Chloroethane and Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples have been impacted: TP-13 (480-121501-1), TP-12 (480-121501-2) and DUP (480-121501-6).

Method(s) 8260C: The laboratory control sample (LCS) for preparation batch 480-369004 and analytical batch 480-368964 recovered outside control limits for the following analyte: Chloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: TP-11 (480-121501-3), TP-16 (480-121501-4) and TP-17 (480-121501-5).

ethod(s) 8260C: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 480-369004 and analytical batch 480-368964 exceeded control limits for the following analytes: Bromomethane and Chloroethane, Note that these analytes are known poor performers when analyzed using this method. The following sample are impacted:TP-11 (480-121501-3[MS]) and TP-11 (480-121501-3[MSD]).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-369868 recovered above the upper control limit for 2,4-Dinitrotoluene and 2,6-Dinitrotoluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TP-13 (480-121501-1), TP-12 (480-121501-2), TP-11 (480-121501-3), TP-16 (480-121501-4), TP-17 (480-121501-5) and DUP (480-121501-6).

Method(s) 8270D: The following samples were diluted due to color and appearance: TP-12 (480-121501-2), TP-11 (480-121501-3), TP-11 (480-121501-3[MS]) and TP-11 (480-121501-3[MSD]). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: The following samples were diluted due to the abundance of non-target analytes: TP-11 (480-121501-3[MS]) and TP-11 (480-121501-3[MSD]). As such, surrogate recoveries are below the calibration range,estimated, and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8081B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and %RPD recoveries for preparation batch 368494 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8081B: For method 8081 Pesticides, the majority of the peaks present in the sample extracts are biphenyls indicating the presence of Aroclors. The results of several confirmed positive peaks may be enhanced and due to the biphenyl peaks present, and may be considered estimated for: TP-12 (480-121501-2) and TP-11 (480-121501-3)

Method(s) 8081B: The following sample was diluted due an abundance of non-target analytes: TP-11 (480-121501-3). As such, surrogate recoveries are below the calibration range,estimated, and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8081B: All primary data for analytical batch 368774 is reported from the RTX-CLPI column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

Method(s) 8082A: All primary data for analytical batch 368775 is reported from the ZB-35 column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The Serial Dilution (480-121501-C-3-A SD) in batch 480-368566, exhibited results outside the quality control limits for Total Iron and Zinc. However, the Post Digestion Spike was compliant so no corrective action was necessary

Method(s) 6010C: The % recovery of Post Spike, (480-121501-C-3-A PDS), in batch 480-368566 exhibited a result outside the quality control limits for Total Barium. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: TP-11 (480-121501-3), TP-11 (480-121501-3[MS]) and TP-11 (480-121501-3[MSD]).

Method(s) 3550C: The following samples required a Florisil clean-up, via EPA Method 3620C, to reduce matrix interferences: TP-12 (480-121501-2).

Method(s) 3550C: The following sample: TP-11 (480-121501-3[MSD]) was decanted prior to preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121501-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-121501-1	TP-13	Solid	07/21/17 09:00	07/21/17 16:30
480-121501-2	TP-12	Solid	07/21/17 10:00	07/21/17 16:30
480-121501-3	TP-11	Solid	07/21/17 11:00	07/21/17 16:30
480-121501-4	TP-16	Solid	07/21/17 14:00	07/21/17 16:30
480-121501-5	TP-17	Solid	07/21/17 13:00	07/21/17 16:30
480-121501-6	DUP	Solid	07/21/17 00:00	07/21/17 16:30

Detection Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121501-1

Client Sample ID: TP-13 — Lab Sample ID: 480-121501-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
delta-BHC	0.51	J B	2.0	0.37	ug/Kg	1	☼	8081B	Total/NA
Aluminum	6360		12.1	5.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.4		2.4	0.48	mg/Kg	1	☼	6010C	Total/NA
Barium	27.1		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.25		0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.11	J	0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Calcium	47600	B	60.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	8.1		0.60	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.7		0.60	0.060	mg/Kg	1	☼	6010C	Total/NA
Copper	8.4		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	10200		12.1	4.2	mg/Kg	1	☼	6010C	Total/NA
Lead	5.7		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	14200	B	24.2	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	267	B	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.2		6.0	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1400		36.3	24.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	177		169	15.7	mg/Kg	1	☼	6010C	Total/NA
Vanadium	16.1		0.60	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	31.8		2.4	0.77	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: TP-12 — Lab Sample ID: 480-121501-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	470	J	1100	270	ug/Kg	5	☼	8270D	Total/NA
Benzo(a)anthracene	1600		1100	110	ug/Kg	5	☼	8270D	Total/NA
Benzo(a)pyrene	1400		1100	160	ug/Kg	5	☼	8270D	Total/NA
Benzo(b)fluoranthene	1700		1100	180	ug/Kg	5	☼	8270D	Total/NA
Benzo(g,h,i)perylene	1000	J	1100	120	ug/Kg	5	☼	8270D	Total/NA
Benzo(k)fluoranthene	700	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Carbazole	150	J	1100	130	ug/Kg	5	☼	8270D	Total/NA
Chrysene	1700		1100	250	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	310	J	1100	190	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	2800		1100	120	ug/Kg	5	☼	8270D	Total/NA
Indeno(1,2,3-cd)pyrene	860	J	1100	140	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	2100		1100	160	ug/Kg	5	☼	8270D	Total/NA
Pyrene	3000		1100	130	ug/Kg	5	☼	8270D	Total/NA
4,4'-DDD	6.1		2.2	0.42	ug/Kg	1	☼	8081B	Total/NA
4,4'-DDE	3.8		2.2	0.46	ug/Kg	1	☼	8081B	Total/NA
Aldrin	3.7		2.2	0.54	ug/Kg	1	☼	8081B	Total/NA
alpha-BHC	0.79	J	2.2	0.39	ug/Kg	1	☼	8081B	Total/NA
alpha-Chlordane	6.3		2.2	1.1	ug/Kg	1	☼	8081B	Total/NA
delta-BHC	6.0	B	2.2	0.41	ug/Kg	1	☼	8081B	Total/NA
Dieldrin	5.2		2.2	0.52	ug/Kg	1	☼	8081B	Total/NA
Endrin	0.79	J	2.2	0.43	ug/Kg	1	☼	8081B	Total/NA
gamma-BHC (Lindane)	1.5	J	2.2	0.40	ug/Kg	1	☼	8081B	Total/NA
gamma-Chlordane	3.5		2.2	0.69	ug/Kg	1	☼	8081B	Total/NA
Heptachlor	1.3	J	2.2	0.47	ug/Kg	1	☼	8081B	Total/NA
Methoxychlor	1.8	J	2.2	0.45	ug/Kg	1	☼	8081B	Total/NA
PCB-1248	0.23	J	0.27	0.052	mg/Kg	1	☼	8082A	Total/NA
PCB-1254	0.32		0.27	0.13	mg/Kg	1	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-12 (Continued) — Lab Sample ID: 480-121501-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.22	J	0.27	0.13	mg/Kg	1	☼	8082A	Total/NA
Aluminum	11200		14.1	6.2	mg/Kg	1	☼	6010C	Total/NA
Arsenic	8.0		2.8	0.56	mg/Kg	1	☼	6010C	Total/NA
Barium	73.5		0.71	0.16	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.49		0.28	0.039	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.7		0.28	0.042	mg/Kg	1	☼	6010C	Total/NA
Calcium	30400	B	70.5	4.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	41.8		0.71	0.28	mg/Kg	1	☼	6010C	Total/NA
Cobalt	8.8		0.71	0.071	mg/Kg	1	☼	6010C	Total/NA
Copper	52.0		1.4	0.30	mg/Kg	1	☼	6010C	Total/NA
Iron	46400		14.1	4.9	mg/Kg	1	☼	6010C	Total/NA
Lead	43.0		1.4	0.34	mg/Kg	1	☼	6010C	Total/NA
Magnesium	11100	B	28.2	1.3	mg/Kg	1	☼	6010C	Total/NA
Manganese	387	B	0.28	0.045	mg/Kg	1	☼	6010C	Total/NA
Nickel	33.3		7.1	0.32	mg/Kg	1	☼	6010C	Total/NA
Potassium	2930		42.3	28.2	mg/Kg	1	☼	6010C	Total/NA
Sodium	199		197	18.3	mg/Kg	1	☼	6010C	Total/NA
Vanadium	25.4		0.71	0.16	mg/Kg	1	☼	6010C	Total/NA
Zinc	212		2.8	0.90	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.27		0.024	0.0097	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-11 — Lab Sample ID: 480-121501-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	270	J	2100	220	ug/Kg	10	☼	8270D	Total/NA
4,4'-DDE	13		10	2.1	ug/Kg	5	☼	8081B	Total/NA
beta-BHC	3.0	J	10	1.8	ug/Kg	5	☼	8081B	Total/NA
delta-BHC	7.3	J B	10	1.9	ug/Kg	5	☼	8081B	Total/NA
Dieldrin	20	F1	10	2.4	ug/Kg	5	☼	8081B	Total/NA
Endosulfan II	2.2	J	10	1.8	ug/Kg	5	☼	8081B	Total/NA
Endrin	3.8	J	10	2.0	ug/Kg	5	☼	8081B	Total/NA
Heptachlor epoxide	2.7	J	10	2.6	ug/Kg	5	☼	8081B	Total/NA
Methoxychlor	9.2	J	10	2.1	ug/Kg	5	☼	8081B	Total/NA
PCB-1248	0.54		0.25	0.049	mg/Kg	1	☼	8082A	Total/NA
PCB-1254	0.66		0.25	0.12	mg/Kg	1	☼	8082A	Total/NA
PCB-1260	0.48		0.25	0.12	mg/Kg	1	☼	8082A	Total/NA
Aluminum	6360	F2 F1	13.1	5.7	mg/Kg	1	☼	6010C	Total/NA
Antimony	0.80	J F1	19.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.2	F2	2.6	0.52	mg/Kg	1	☼	6010C	Total/NA
Barium	522	F2	0.65	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.27	F2	0.26	0.037	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.93	F2 F1	0.26	0.039	mg/Kg	1	☼	6010C	Total/NA
Calcium	44500	F2 B	65.3	4.3	mg/Kg	1	☼	6010C	Total/NA
Chromium	19.5	F2 F1	0.65	0.26	mg/Kg	1	☼	6010C	Total/NA
Cobalt	4.3	F2	0.65	0.065	mg/Kg	1	☼	6010C	Total/NA
Copper	22.4		1.3	0.27	mg/Kg	1	☼	6010C	Total/NA
Iron	11700	F2	13.1	4.6	mg/Kg	1	☼	6010C	Total/NA
Lead	87.2	F2 F1	1.3	0.31	mg/Kg	1	☼	6010C	Total/NA
Magnesium	15700	F2 B	26.1	1.2	mg/Kg	1	☼	6010C	Total/NA
Manganese	299	F2 B	0.26	0.042	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-11 (Continued) — Lab Sample ID: 480-121501-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	23.4	F2 F1	6.5	0.30	mg/Kg	1	☼	6010C	Total/NA
Potassium	1370	F2 F1	39.2	26.1	mg/Kg	1	☼	6010C	Total/NA
Silver	1.1	F2 F1	0.78	0.26	mg/Kg	1	☼	6010C	Total/NA
Sodium	155	J F2	183	17.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	16.6	F2	0.65	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	97.9	F2 F1	2.6	0.84	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.74	F1 F2	0.023	0.0092	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: TP-16 — Lab Sample ID: 480-121501-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	3610		12.3	5.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.2		2.5	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	14.5		0.61	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.16	J	0.25	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.16	J	0.25	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	44100	B	61.5	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.9		0.61	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.3		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	7.8		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	8040		12.3	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	5.6		1.2	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	17700	B	24.6	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	317	B	0.25	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.3		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1040		36.9	24.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	154	J	172	16.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	12.7		0.61	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	39.3		2.5	0.79	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: TP-17 — Lab Sample ID: 480-121501-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
delta-BHC	0.47	J B	2.0	0.37	ug/Kg	1	☼	8081B	Total/NA
Aluminum	3780		11.3	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.8		2.3	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	19.5		0.57	0.12	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.17	J	0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.17	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	38000	B	56.7	3.7	mg/Kg	1	☼	6010C	Total/NA
Chromium	5.7		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.4		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	6.8		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	7820		11.3	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	5.4		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	15000	B	22.7	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	290	B	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	7.2		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	1010		34.0	22.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	140	J	159	14.7	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP-17 (Continued)

Lab Sample ID: 480-121501-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	12.1		0.57	0.12	mg/Kg	1	☼	6010C	Total/NA
Zinc	36.5		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: DUP

Lab Sample ID: 480-121501-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.9	J vs	30	5.0	ug/Kg	1	☼	8260C	Total/NA
delta-BHC	0.41	J B	2.0	0.37	ug/Kg	1	☼	8081B	Total/NA
Aluminum	5030		12.1	5.3	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.6		2.4	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	18.9		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.22	J	0.24	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.13	J	0.24	0.036	mg/Kg	1	☼	6010C	Total/NA
Calcium	58800	B	60.7	4.0	mg/Kg	1	☼	6010C	Total/NA
Chromium	7.4		0.61	0.24	mg/Kg	1	☼	6010C	Total/NA
Cobalt	3.3		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	7.4		1.2	0.25	mg/Kg	1	☼	6010C	Total/NA
Iron	9620		12.1	4.2	mg/Kg	1	☼	6010C	Total/NA
Lead	5.4		1.2	0.29	mg/Kg	1	☼	6010C	Total/NA
Magnesium	20800	B	24.3	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	325	B	0.24	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	8.5		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1240		36.4	24.3	mg/Kg	1	☼	6010C	Total/NA
Sodium	186		170	15.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	14.3		0.61	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	32.1		2.4	0.78	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121501-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: TP-13
Date Collected: 07/21/17 09:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-1
Matrix: Solid
Percent Solids: 82.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9	0.43	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,1,2-Trichloroethane	ND	vs	5.9	0.77	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.4	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,1-Dichloroethane	ND	vs	5.9	0.72	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,1-Dichloroethene	ND	vs	5.9	0.73	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	3.0	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,2-Dibromoethane	ND	vs	5.9	0.76	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,2-Dichloroethane	ND	vs	5.9	0.30	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,2-Dichloropropane	ND	vs	5.9	3.0	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,3-Dichlorobenzene	ND	vs	5.9	0.30	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
1,4-Dichlorobenzene	ND	vs	5.9	0.83	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	1.9	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Acetone	ND	vs	30	5.0	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Benzene	ND	vs	5.9	0.29	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Bromodichloromethane	ND	vs	5.9	0.79	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Bromoform	ND	vs	5.9	3.0	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Bromomethane	ND	* vs	5.9	0.53	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Carbon disulfide	ND	vs	5.9	3.0	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Carbon tetrachloride	ND	vs	5.9	0.57	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Chlorobenzene	ND	vs	5.9	0.78	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Dibromochloromethane	ND	vs	5.9	0.76	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Chloroethane	ND	* vs	5.9	1.3	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Chloroform	ND	vs	5.9	0.37	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Chloromethane	ND	vs	5.9	0.36	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
cis-1,2-Dichloroethene	ND	vs	5.9	0.76	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.85	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Cyclohexane	ND	vs	5.9	0.83	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Dichlorodifluoromethane	ND	vs	5.9	0.49	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Ethylbenzene	ND	vs	5.9	0.41	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Isopropylbenzene	ND	vs	5.9	0.89	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Methyl tert-butyl ether	ND	vs	5.9	0.58	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Methylcyclohexane	ND	vs	5.9	0.90	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Methylene Chloride	ND	vs	5.9	2.7	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Styrene	ND	vs	5.9	0.30	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Tetrachloroethene	ND	vs	5.9	0.80	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Toluene	ND	vs	5.9	0.45	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.61	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Trichloroethene	ND	vs	5.9	1.3	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Trichlorofluoromethane	ND	vs	5.9	0.56	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Vinyl chloride	ND	vs	5.9	0.72	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	07/26/17 21:23	07/27/17 02:45	1

Client Sample ID: TP-13

Date Collected: 07/21/17 09:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-1

Matrix: Solid
Percent Solids: 82.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 126*	*07/26/17 21:23*	*07/27/17 02:45*	*1*
Toluene-d8 (Surr)	*92*		*71 - 125*	*07/26/17 21:23*	*07/27/17 02:45*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*07/26/17 21:23*	*07/27/17 02:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2-Methylphenol	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
3-Nitroaniline	ND		390	56	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
4-Methylphenol	ND		390	24	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Acenaphthene	ND		200	30	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Acenaphthylene	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Acetophenone	ND		200	27	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Anthracene	ND		200	50	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Atrazine	ND		200	70	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Benzaldehyde	ND		200	160	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Benzo(a)anthracene	ND		200	20	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Benzo(a)pyrene	ND		200	30	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Benzo(b)fluoranthene	ND		200	32	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Benzo(g,h,i)perylene	ND		200	21	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Benzo(k)fluoranthene	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Bis(2-chloroethoxy)methane	ND		200	43	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Bis(2-ethylhexyl) phthalate	ND		200	69	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Caprolactam	ND		200	60	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Carbazole	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Chrysene	ND		200	45	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1

Client Sample ID: TP-13
Date Collected: 07/21/17 09:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-1
Matrix: Solid
Percent Solids: 82.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Dibenzofuran	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Fluoranthene	ND		200	21	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Fluorene	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Hexachloroethane	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Indeno(1,2,3-cd)pyrene	ND		200	25	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Isophorone	ND		200	43	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Naphthalene	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Nitrobenzene	ND		200	22	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Phenanthrene	ND		200	30	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Phenol	ND		200	31	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1
Pyrene	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/01/17 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*96*		*54 - 120*	*07/25/17 07:50*	*08/01/17 22:47*	*1*
2-Fluorobiphenyl	*89*		*60 - 120*	*07/25/17 07:50*	*08/01/17 22:47*	*1*
2-Fluorophenol	*86*		*52 - 120*	*07/25/17 07:50*	*08/01/17 22:47*	*1*
Nitrobenzene-d5	*92*		*53 - 120*	*07/25/17 07:50*	*08/01/17 22:47*	*1*
p-Terphenyl-d14	*100*		*65 - 121*	*07/25/17 07:50*	*08/01/17 22:47*	*1*
Phenol-d5	*87*		*54 - 120*	*07/25/17 07:50*	*08/01/17 22:47*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
4,4'-DDE	ND		2.0	0.42	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
4,4'-DDT	ND		2.0	0.47	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
alpha-Chlordane	ND		2.0	1.0	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
delta-BHC	**0.51**	**J B**	2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Endrin	ND		2.0	0.40	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
gamma-Chlordane	ND		2.0	0.64	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1

Client Sample ID: TP-13
Date Collected: 07/21/17 09:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-1
Matrix: Solid
Percent Solids: 82.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Methoxychlor	ND		2.0	0.41	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1
Toxaphene	ND		20	12	ug/Kg	☼	07/25/17 07:30	07/26/17 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*45 - 120*	*07/25/17 07:30*	*07/26/17 15:34*	*1*
DCB Decachlorobiphenyl	*101*		*45 - 120*	*07/25/17 07:30*	*07/26/17 15:34*	*1*
Tetrachloro-m-xylene	*76*		*30 - 124*	*07/25/17 07:30*	*07/26/17 15:34*	*1*
Tetrachloro-m-xylene	*71*		*30 - 124*	*07/25/17 07:30*	*07/26/17 15:34*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.043	mg/Kg	☼	07/25/17 14:16	07/26/17 16:48	1
PCB-1221	ND		0.22	0.043	mg/Kg	☼	07/25/17 14:16	07/26/17 16:48	1
PCB-1232	ND		0.22	0.043	mg/Kg	☼	07/25/17 14:16	07/26/17 16:48	1
PCB-1242	ND		0.22	0.043	mg/Kg	☼	07/25/17 14:16	07/26/17 16:48	1
PCB-1248	ND		0.22	0.043	mg/Kg	☼	07/25/17 14:16	07/26/17 16:48	1
PCB-1254	ND		0.22	0.10	mg/Kg	☼	07/25/17 14:16	07/26/17 16:48	1
PCB-1260	ND		0.22	0.10	mg/Kg	☼	07/25/17 14:16	07/26/17 16:48	1
PCB-1262	ND		0.22	0.10	mg/Kg	☼	07/25/17 14:16	07/26/17 16:48	1
PCB-1268	ND		0.22	0.10	mg/Kg	☼	07/25/17 14:16	07/26/17 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*140*		*60 - 154*	*07/25/17 14:16*	*07/26/17 16:48*	*1*
Tetrachloro-m-xylene	*120*		*60 - 154*	*07/25/17 14:16*	*07/26/17 16:48*	*1*
DCB Decachlorobiphenyl	*136*		*65 - 174*	*07/25/17 14:16*	*07/26/17 16:48*	*1*
DCB Decachlorobiphenyl	*101*		*65 - 174*	*07/25/17 14:16*	*07/26/17 16:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6360**		12.1	5.3	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Antimony	ND		18.1	0.48	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Arsenic	**3.4**		2.4	0.48	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Barium	**27.1**		0.60	0.13	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Beryllium	**0.25**		0.24	0.034	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Cadmium	**0.11**	**J**	0.24	0.036	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Calcium	**47600**	**B**	60.4	4.0	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Chromium	**8.1**		0.60	0.24	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Cobalt	**3.7**		0.60	0.060	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Copper	**8.4**		1.2	0.25	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Iron	**10200**		12.1	4.2	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Lead	**5.7**		1.2	0.29	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Magnesium	**14200**	**B**	24.2	1.1	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Manganese	**267**	**B**	0.24	0.039	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Nickel	**9.2**		6.0	0.28	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Potassium	**1400**		36.3	24.2	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Selenium	ND		4.8	0.48	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Silver	ND		0.73	0.24	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Sodium	**177**		169	15.7	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Thallium	ND		7.3	0.36	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1

Client Sample ID: TP-13

Lab Sample ID: 480-121501-1
Date Collected: 07/21/17 09:00
Matrix: Solid
Date Received: 07/21/17 16:30
Percent Solids: 82.8

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	16.1		0.60	0.13	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1
Zinc	31.8		2.4	0.77	mg/Kg	☼	07/25/17 15:15	07/26/17 19:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023	0.0091	mg/Kg	☼	07/26/17 16:00	07/26/17 17:48	1

Client Sample ID: TP-12

Lab Sample ID: 480-121501-2
Date Collected: 07/21/17 10:00
Matrix: Solid
Date Received: 07/21/17 16:30
Percent Solids: 76.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.4	0.46	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,1,2,2-Tetrachloroethane	ND	vs	6.4	1.0	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,1,2-Trichloroethane	ND	vs	6.4	0.83	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.4	1.5	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,1-Dichloroethane	ND	vs	6.4	0.78	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,1-Dichloroethene	ND	vs	6.4	0.78	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,2,4-Trichlorobenzene	ND	vs	6.4	0.39	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.4	3.2	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,2-Dibromoethane	ND	vs	6.4	0.82	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,2-Dichlorobenzene	ND	vs	6.4	0.50	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,2-Dichloroethane	ND	vs	6.4	0.32	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,2-Dichloropropane	ND	vs	6.4	3.2	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,3-Dichlorobenzene	ND	vs	6.4	0.33	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
1,4-Dichlorobenzene	ND	vs	6.4	0.89	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
2-Hexanone	ND	vs	32	3.2	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
2-Butanone (MEK)	ND	vs	32	2.3	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Acetone	ND	vs	32	5.4	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Benzene	ND	vs	6.4	0.31	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Bromodichloromethane	ND	vs	6.4	0.86	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Bromoform	ND	vs	6.4	3.2	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Bromomethane	ND	* vs	6.4	0.58	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Carbon disulfide	ND	vs	6.4	3.2	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Carbon tetrachloride	ND	vs	6.4	0.62	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Chlorobenzene	ND	vs	6.4	0.84	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Dibromochloromethane	ND	vs	6.4	0.82	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Chloroethane	ND	* vs	6.4	1.4	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Chloroform	ND	vs	6.4	0.40	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Chloromethane	ND	vs	6.4	0.39	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
cis-1,2-Dichloroethene	ND	vs	6.4	0.82	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
cis-1,3-Dichloropropene	ND	vs	6.4	0.92	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Cyclohexane	ND	vs	6.4	0.89	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Dichlorodifluoromethane	ND	vs	6.4	0.53	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Ethylbenzene	ND	vs	6.4	0.44	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Isopropylbenzene	ND	vs	6.4	0.96	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Methyl acetate	ND	vs	32	3.9	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Methyl tert-butyl ether	ND	vs	6.4	0.63	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1

Client Sample ID: TP-12

Date Collected: 07/21/17 10:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-2

Matrix: Solid
Percent Solids: 76.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND	vs	6.4	0.97	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Methylene Chloride	ND	vs	6.4	2.9	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Styrene	ND	vs	6.4	0.32	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Tetrachloroethene	ND	vs	6.4	0.86	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Toluene	ND	vs	6.4	0.48	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
trans-1,2-Dichloroethene	ND	vs	6.4	0.66	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
trans-1,3-Dichloropropene	ND	vs	6.4	2.8	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Trichloroethene	ND	vs	6.4	1.4	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Trichlorofluoromethane	ND	vs	6.4	0.60	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Vinyl chloride	ND	vs	6.4	0.78	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1
Xylenes, Total	ND	vs	13	1.1	ug/Kg	☼	07/26/17 21:23	07/27/17 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*64 - 126*	*07/26/17 21:23*	*07/27/17 03:10*	*1*
Toluene-d8 (Surr)	*95*		*71 - 125*	*07/26/17 21:23*	*07/27/17 03:10*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 126*	*07/26/17 21:23*	*07/27/17 03:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1100	160	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
bis (2-chloroisopropyl) ether	ND		1100	220	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2,4,5-Trichlorophenol	ND		1100	300	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2,4,6-Trichlorophenol	ND		1100	220	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2,4-Dichlorophenol	ND		1100	120	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2,4-Dimethylphenol	ND		1100	270	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2,4-Dinitrophenol	ND		11000	5100	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2,4-Dinitrotoluene	ND		1100	230	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2,6-Dinitrotoluene	ND		1100	130	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2-Chloronaphthalene	ND		1100	180	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2-Chlorophenol	ND		1100	200	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2-Methylnaphthalene	ND		1100	220	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2-Methylphenol	ND		1100	130	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2-Nitroaniline	ND		2100	160	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
2-Nitrophenol	ND		1100	310	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
3,3'-Dichlorobenzidine	ND		2100	1300	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
3-Nitroaniline	ND		2100	310	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
4,6-Dinitro-2-methylphenol	ND		2100	1100	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
4-Bromophenyl phenyl ether	ND		1100	160	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
4-Chloro-3-methylphenol	ND		1100	270	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
4-Chloroaniline	ND		1100	270	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
4-Chlorophenyl phenyl ether	ND		1100	140	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
4-Methylphenol	ND		2100	130	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
4-Nitroaniline	ND		2100	580	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
4-Nitrophenol	ND		2100	770	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Acenaphthene	ND		1100	160	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Acenaphthylene	ND		1100	140	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Acetophenone	ND		1100	150	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Anthracene	**470**	**J**	1100	270	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Atrazine	ND		1100	380	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Benzaldehyde	ND		1100	880	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5

Client Sample ID: TP-12
Date Collected: 07/21/17 10:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-2
Matrix: Solid
Percent Solids: 76.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(a)anthracene	**1600**		1100	110	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Benzo(a)pyrene	**1400**		1100	160	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Benzo(b)fluoranthene	**1700**		1100	180	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Benzo(g,h,i)perylene	**1000**	**J**	1100	120	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Benzo(k)fluoranthene	**700**	**J**	1100	140	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Bis(2-chloroethoxy)methane	ND		1100	230	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Bis(2-chloroethyl)ether	ND		1100	140	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Bis(2-ethylhexyl) phthalate	ND		1100	380	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Butyl benzyl phthalate	ND		1100	180	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Caprolactam	ND		1100	330	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Carbazole	**150**	**J**	1100	130	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Chrysene	**1700**		1100	250	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Di-n-butyl phthalate	ND		1100	190	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Di-n-octyl phthalate	ND		1100	130	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Dibenz(a,h)anthracene	**310**	**J**	1100	190	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Dibenzofuran	ND		1100	130	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Diethyl phthalate	ND		1100	140	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Dimethyl phthalate	ND		1100	130	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Fluoranthene	**2800**		1100	120	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Fluorene	ND		1100	130	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Hexachlorobenzene	ND		1100	150	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Hexachlorobutadiene	ND		1100	160	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Hexachlorocyclopentadiene	ND		1100	150	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Hexachloroethane	ND		1100	140	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Indeno(1,2,3-cd)pyrene	**860**	**J**	1100	140	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Isophorone	ND		1100	230	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
N-Nitrosodi-n-propylamine	ND		1100	190	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
N-Nitrosodiphenylamine	ND		1100	900	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Naphthalene	ND		1100	140	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Nitrobenzene	ND		1100	120	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Pentachlorophenol	ND		2100	1100	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Phenanthrene	**2100**		1100	160	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Phenol	ND		1100	170	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5
Pyrene	**3000**		1100	130	ug/Kg	☼	07/25/17 07:50	08/01/17 23:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*69*		*54 - 120*	*07/25/17 07:50*	*08/01/17 23:13*	*5*
2-Fluorobiphenyl	*84*		*60 - 120*	*07/25/17 07:50*	*08/01/17 23:13*	*5*
2-Fluorophenol	*69*		*52 - 120*	*07/25/17 07:50*	*08/01/17 23:13*	*5*
Nitrobenzene-d5	*72*		*53 - 120*	*07/25/17 07:50*	*08/01/17 23:13*	*5*
p-Terphenyl-d14	*95*		*65 - 121*	*07/25/17 07:50*	*08/01/17 23:13*	*5*
Phenol-d5	*74*		*54 - 120*	*07/25/17 07:50*	*08/01/17 23:13*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**6.1**		2.2	0.42	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
4,4'-DDE	**3.8**		2.2	0.46	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
4,4'-DDT	ND		2.2	0.51	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Aldrin	**3.7**		2.2	0.54	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
alpha-BHC	**0.79**	**J**	2.2	0.39	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1

Client Sample ID: TP-12
Date Collected: 07/21/17 10:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-2
Matrix: Solid
Percent Solids: 76.1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	**6.3**		2.2	1.1	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
beta-BHC	ND		2.2	0.39	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
delta-BHC	**6.0**	**B**	2.2	0.41	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Dieldrin	**5.2**		2.2	0.52	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Endosulfan I	ND		2.2	0.42	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Endosulfan II	ND		2.2	0.39	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Endosulfan sulfate	ND		2.2	0.41	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Endrin	**0.79**	**J**	2.2	0.43	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Endrin aldehyde	ND		2.2	0.56	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Endrin ketone	ND		2.2	0.54	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
gamma-BHC (Lindane)	**1.5**	**J**	2.2	0.40	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
gamma-Chlordane	**3.5**		2.2	0.69	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Heptachlor	**1.3**	**J**	2.2	0.47	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Heptachlor epoxide	ND		2.2	0.56	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Methoxychlor	**1.8**	**J**	2.2	0.45	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1
Toxaphene	ND		22	13	ug/Kg	☼	07/25/17 07:30	07/26/17 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*45 - 120*	*07/25/17 07:30*	*07/26/17 15:53*	*1*
DCB Decachlorobiphenyl	*163*	*X*	*45 - 120*	*07/25/17 07:30*	*07/26/17 15:53*	*1*
Tetrachloro-m-xylene	*88*		*30 - 124*	*07/25/17 07:30*	*07/26/17 15:53*	*1*
Tetrachloro-m-xylene	*72*		*30 - 124*	*07/25/17 07:30*	*07/26/17 15:53*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27	0.052	mg/Kg	☼	07/25/17 14:16	07/26/17 17:04	1
PCB-1221	ND		0.27	0.052	mg/Kg	☼	07/25/17 14:16	07/26/17 17:04	1
PCB-1232	ND		0.27	0.052	mg/Kg	☼	07/25/17 14:16	07/26/17 17:04	1
PCB-1242	ND		0.27	0.052	mg/Kg	☼	07/25/17 14:16	07/26/17 17:04	1
PCB-1248	**0.23**	**J**	0.27	0.052	mg/Kg	☼	07/25/17 14:16	07/26/17 17:04	1
PCB-1254	**0.32**		0.27	0.13	mg/Kg	☼	07/25/17 14:16	07/26/17 17:04	1
PCB-1260	**0.22**	**J**	0.27	0.13	mg/Kg	☼	07/25/17 14:16	07/26/17 17:04	1
PCB-1262	ND		0.27	0.13	mg/Kg	☼	07/25/17 14:16	07/26/17 17:04	1
PCB-1268	ND		0.27	0.13	mg/Kg	☼	07/25/17 14:16	07/26/17 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*149*		*60 - 154*	*07/25/17 14:16*	*07/26/17 17:04*	*1*
Tetrachloro-m-xylene	*120*		*60 - 154*	*07/25/17 14:16*	*07/26/17 17:04*	*1*
DCB Decachlorobiphenyl	*147*		*65 - 174*	*07/25/17 14:16*	*07/26/17 17:04*	*1*
DCB Decachlorobiphenyl	*108*		*65 - 174*	*07/25/17 14:16*	*07/26/17 17:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11200**		14.1	6.2	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Antimony	ND		21.2	0.56	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Arsenic	**8.0**		2.8	0.56	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Barium	**73.5**		0.71	0.16	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Beryllium	**0.49**		0.28	0.039	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Cadmium	**1.7**		0.28	0.042	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Calcium	**30400**	**B**	70.5	4.7	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1

Client Sample ID: TP-12

Date Collected: 07/21/17 10:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-2

Matrix: Solid
Percent Solids: 76.1

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	41.8		0.71	0.28	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Cobalt	8.8		0.71	0.071	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Copper	52.0		1.4	0.30	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Iron	46400		14.1	4.9	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Lead	43.0		1.4	0.34	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Magnesium	11100	B	28.2	1.3	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Manganese	387	B	0.28	0.045	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Nickel	33.3		7.1	0.32	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Potassium	2930		42.3	28.2	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Selenium	ND		5.6	0.56	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Silver	ND		0.85	0.28	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Sodium	199		197	18.3	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Thallium	ND		8.5	0.42	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Vanadium	25.4		0.71	0.16	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1
Zinc	212		2.8	0.90	mg/Kg	☼	07/25/17 15:15	07/26/17 19:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.024	0.0097	mg/Kg	☼	07/26/17 16:00	07/26/17 17:50	1

Client Sample ID: TP-11

Date Collected: 07/21/17 11:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-3

Matrix: Solid
Percent Solids: 81.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.2	0.45	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,1,2,2-Tetrachloroethane	ND	F1 vs	6.2	1.0	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,1,2-Trichloroethane	ND	vs	6.2	0.80	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.2	1.4	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,1-Dichloroethane	ND	vs	6.2	0.75	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,1-Dichloroethene	ND	vs	6.2	0.75	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,2,4-Trichlorobenzene	ND	F1 vs	6.2	0.37	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,2-Dibromo-3-Chloropropane	ND	F1 vs	6.2	3.1	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,2-Dibromoethane	ND	F1 vs	6.2	0.79	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,2-Dichlorobenzene	ND	vs	6.2	0.48	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,2-Dichloroethane	ND	vs	6.2	0.31	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,2-Dichloropropane	ND	vs	6.2	3.1	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,3-Dichlorobenzene	ND	vs	6.2	0.32	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
1,4-Dichlorobenzene	ND	vs	6.2	0.86	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
2-Hexanone	ND	vs	31	3.1	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
2-Butanone (MEK)	ND	F1 vs	31	2.3	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.0	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Acetone	ND	vs	31	5.2	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Benzene	ND	vs	6.2	0.30	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Bromodichloromethane	ND	vs	6.2	0.83	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Bromoform	ND	F1 vs	6.2	3.1	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Bromomethane	ND	F1 vs	6.2	0.55	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Carbon disulfide	ND	vs	6.2	3.1	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Carbon tetrachloride	ND	vs	6.2	0.60	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1

Client Sample ID: TP-11
Date Collected: 07/21/17 11:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-3
Matrix: Solid
Percent Solids: 81.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND	vs	6.2	0.81	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Dibromochloromethane	ND	F1 vs	6.2	0.79	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Chloroethane	ND	* F1 vs	6.2	1.4	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Chloroform	ND	vs	6.2	0.38	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Chloromethane	ND	vs	6.2	0.37	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
cis-1,2-Dichloroethene	ND	vs	6.2	0.79	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
cis-1,3-Dichloropropene	ND	F1 vs	6.2	0.89	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Cyclohexane	ND	vs	6.2	0.86	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Dichlorodifluoromethane	ND	vs	6.2	0.51	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Ethylbenzene	ND	vs	6.2	0.43	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Isopropylbenzene	ND	vs	6.2	0.93	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Methyl acetate	ND	vs	31	3.7	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Methyl tert-butyl ether	ND	vs	6.2	0.61	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Methylcyclohexane	ND	vs	6.2	0.94	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Methylene Chloride	ND	vs	6.2	2.8	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Styrene	ND	F1 vs	6.2	0.31	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Tetrachloroethene	ND	vs	6.2	0.83	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Toluene	ND	vs	6.2	0.47	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
trans-1,2-Dichloroethene	ND	vs	6.2	0.64	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
trans-1,3-Dichloropropene	ND	vs	6.2	2.7	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Trichloroethene	ND	vs	6.2	1.4	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Trichlorofluoromethane	ND	vs	6.2	0.58	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Vinyl chloride	ND	vs	6.2	0.75	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	07/27/17 09:57	07/27/17 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 126*	*07/27/17 09:57*	*07/27/17 13:17*	*1*
Toluene-d8 (Surr)	*92*		*71 - 125*	*07/27/17 09:57*	*07/27/17 13:17*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*07/27/17 09:57*	*07/27/17 13:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		2100	310	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
bis (2-chloroisopropyl) ether	ND		2100	420	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2,4,5-Trichlorophenol	ND		2100	570	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2,4,6-Trichlorophenol	ND		2100	420	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2,4-Dichlorophenol	ND		2100	220	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2,4-Dimethylphenol	ND		2100	500	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2,4-Dinitrophenol	ND		20000	9600	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2,4-Dinitrotoluene	ND		2100	430	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2,6-Dinitrotoluene	ND		2100	250	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2-Chloronaphthalene	ND		2100	340	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2-Chlorophenol	ND		2100	380	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2-Methylnaphthalene	ND		2100	420	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2-Methylphenol	ND		2100	250	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2-Nitroaniline	ND		4100	310	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
2-Nitrophenol	ND		2100	590	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
3,3'-Dichlorobenzidine	ND		4100	2500	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
3-Nitroaniline	ND		4100	580	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
4,6-Dinitro-2-methylphenol	ND		4100	2100	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10

Client Sample ID: TP-11
Date Collected: 07/21/17 11:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-3
Matrix: Solid
Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		2100	300	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
4-Chloro-3-methylphenol	ND		2100	520	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
4-Chloroaniline	ND		2100	520	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
4-Chlorophenyl phenyl ether	ND		2100	260	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
4-Methylphenol	ND		4100	250	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
4-Nitroaniline	ND		4100	1100	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
4-Nitrophenol	ND		4100	1500	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Acenaphthene	ND		2100	310	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Acenaphthylene	ND		2100	270	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Acetophenone	ND		2100	280	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Anthracene	ND		2100	520	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Atrazine	ND		2100	730	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Benzaldehyde	ND	F2	2100	1700	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Benzo(a)anthracene	ND		2100	210	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Benzo(a)pyrene	ND		2100	310	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Benzo(b)fluoranthene	ND		2100	330	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Benzo(g,h,i)perylene	ND		2100	220	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Benzo(k)fluoranthene	ND		2100	270	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Bis(2-chloroethoxy)methane	ND		2100	440	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Bis(2-chloroethyl)ether	ND		2100	270	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Bis(2-ethylhexyl) phthalate	ND		2100	710	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Butyl benzyl phthalate	ND		2100	340	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Caprolactam	ND		2100	630	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Carbazole	ND		2100	250	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Chrysene	ND		2100	470	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Di-n-butyl phthalate	ND		2100	360	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Di-n-octyl phthalate	ND		2100	250	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Dibenz(a,h)anthracene	ND		2100	370	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Dibenzofuran	ND		2100	250	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Diethyl phthalate	ND		2100	270	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Dimethyl phthalate	ND		2100	250	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Fluoranthene	**270**	**J**	2100	220	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Fluorene	ND		2100	250	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Hexachlorobenzene	ND		2100	280	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Hexachlorobutadiene	ND		2100	310	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Hexachlorocyclopentadiene	ND		2100	280	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Hexachloroethane	ND		2100	270	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Indeno(1,2,3-cd)pyrene	ND		2100	260	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Isophorone	ND		2100	440	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
N-Nitrosodi-n-propylamine	ND		2100	360	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
N-Nitrosodiphenylamine	ND		2100	1700	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Naphthalene	ND		2100	270	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Nitrobenzene	ND		2100	230	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Pentachlorophenol	ND		4100	2100	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Phenanthrene	ND		2100	310	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Phenol	ND		2100	320	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10
Pyrene	ND		2100	250	ug/Kg	☼	07/25/17 07:50	08/01/17 23:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*70*		*54 - 120*	*07/25/17 07:50*	*08/01/17 23:40*	*10*

Client Sample ID: TP-11
Date Collected: 07/21/17 11:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-3
Matrix: Solid
Percent Solids: 81.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*60 - 120*	*07/25/17 07:50*	*08/01/17 23:40*	*10*
2-Fluorophenol	*72*		*52 - 120*	*07/25/17 07:50*	*08/01/17 23:40*	*10*
Nitrobenzene-d5	*73*		*53 - 120*	*07/25/17 07:50*	*08/01/17 23:40*	*10*
p-Terphenyl-d14	*105*		*65 - 121*	*07/25/17 07:50*	*08/01/17 23:40*	*10*
Phenol-d5	*71*		*54 - 120*	*07/25/17 07:50*	*08/01/17 23:40*	*10*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	F1 F2	10	2.0	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
4,4'-DDE	**13**		10	2.1	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
4,4'-DDT	ND		10	2.4	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Aldrin	ND	F2	10	2.5	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
alpha-BHC	ND		10	1.8	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
alpha-Chlordane	ND		10	5.0	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
beta-BHC	**3.0**	**J**	10	1.8	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
delta-BHC	**7.3**	**J B**	10	1.9	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Dieldrin	**20**	**F1**	10	2.4	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Endosulfan I	ND		10	1.9	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Endosulfan II	**2.2**	**J**	10	1.8	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Endosulfan sulfate	ND		10	1.9	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Endrin	**3.8**	**J**	10	2.0	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Endrin aldehyde	ND		10	2.6	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Endrin ketone	ND		10	2.5	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
gamma-BHC (Lindane)	ND		10	1.9	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
gamma-Chlordane	ND		10	3.2	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Heptachlor	ND		10	2.2	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Heptachlor epoxide	**2.7**	**J**	10	2.6	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Methoxychlor	**9.2**	**J**	10	2.1	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5
Toxaphene	ND		100	59	ug/Kg	☼	07/25/17 07:30	07/26/17 15:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*45 - 120*	*07/25/17 07:30*	*07/26/17 15:14*	*5*
DCB Decachlorobiphenyl	*123*	*X*	*45 - 120*	*07/25/17 07:30*	*07/26/17 15:14*	*5*
Tetrachloro-m-xylene	*108*		*30 - 124*	*07/25/17 07:30*	*07/26/17 15:14*	*5*
Tetrachloro-m-xylene	*75*		*30 - 124*	*07/25/17 07:30*	*07/26/17 15:14*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.049	mg/Kg	☼	07/25/17 14:16	07/26/17 14:39	1
PCB-1221	ND		0.25	0.049	mg/Kg	☼	07/25/17 14:16	07/26/17 14:39	1
PCB-1232	ND		0.25	0.049	mg/Kg	☼	07/25/17 14:16	07/26/17 14:39	1
PCB-1242	ND		0.25	0.049	mg/Kg	☼	07/25/17 14:16	07/26/17 14:39	1
PCB-1248	**0.54**		0.25	0.049	mg/Kg	☼	07/25/17 14:16	07/26/17 14:39	1
PCB-1254	**0.66**		0.25	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 14:39	1
PCB-1260	**0.48**		0.25	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 14:39	1
PCB-1262	ND		0.25	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 14:39	1
PCB-1268	ND		0.25	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*142*		*60 - 154*	*07/25/17 14:16*	*07/26/17 14:39*	*1*

Client Sample ID: TP-11

Lab Sample ID: 480-121501-3
Date Collected: 07/21/17 11:00
Matrix: Solid
Date Received: 07/21/17 16:30
Percent Solids: 81.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		60 - 154	07/25/17 14:16	07/26/17 14:39	1
DCB Decachlorobiphenyl	144		65 - 174	07/25/17 14:16	07/26/17 14:39	1
DCB Decachlorobiphenyl	113		65 - 174	07/25/17 14:16	07/26/17 14:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6360	F2 F1	13.1	5.7	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Antimony	0.80	J F1	19.6	0.52	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Arsenic	3.2	F2	2.6	0.52	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Barium	522	F2	0.65	0.14	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Beryllium	0.27	F2	0.26	0.037	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Cadmium	0.93	F2 F1	0.26	0.039	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Calcium	44500	F2 B	65.3	4.3	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Chromium	19.5	F2 F1	0.65	0.26	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Cobalt	4.3	F2	0.65	0.065	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Copper	22.4		1.3	0.27	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Iron	11700	F2	13.1	4.6	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Lead	87.2	F2 F1	1.3	0.31	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Magnesium	15700	F2 B	26.1	1.2	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Manganese	299	F2 B	0.26	0.042	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Nickel	23.4	F2 F1	6.5	0.30	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Potassium	1370	F2 F1	39.2	26.1	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Selenium	ND	F2	5.2	0.52	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Silver	1.1	F2 F1	0.78	0.26	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Sodium	155	J F2	183	17.0	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Thallium	ND	F2	7.8	0.39	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Vanadium	16.6	F2	0.65	0.14	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1
Zinc	97.9	F2 F1	2.6	0.84	mg/Kg	☼	07/25/17 15:15	07/26/17 19:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.74	F1 F2	0.023	0.0092	mg/Kg	☼	07/26/17 16:00	07/26/17 17:51	1

Client Sample ID: TP-16

Lab Sample ID: 480-121501-4
Date Collected: 07/21/17 14:00
Matrix: Solid
Date Received: 07/21/17 16:30
Percent Solids: 81.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.44	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.98	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,1,2-Trichloroethane	ND	vs	6.0	0.79	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,1-Dichloroethane	ND	vs	6.0	0.74	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,1-Dichloroethene	ND	vs	6.0	0.74	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.37	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,2-Dibromoethane	ND	vs	6.0	0.78	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1

Client Sample ID: TP-16

Date Collected: 07/21/17 14:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-4

Matrix: Solid
Percent Solids: 81.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
1,4-Dichlorobenzene	ND	vs	6.0	0.85	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Acetone	ND	vs	30	5.1	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Benzene	ND	vs	6.0	0.30	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Bromodichloromethane	ND	vs	6.0	0.81	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Chlorobenzene	ND	vs	6.0	0.80	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Dibromochloromethane	ND	vs	6.0	0.77	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Chloroethane	ND	* vs	6.0	1.4	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Chloroform	ND	vs	6.0	0.37	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.87	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Cyclohexane	ND	vs	6.0	0.85	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Dichlorodifluoromethane	ND	vs	6.0	0.50	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Ethylbenzene	ND	vs	6.0	0.42	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Isopropylbenzene	ND	vs	6.0	0.91	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Methylcyclohexane	ND	vs	6.0	0.92	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Methylene Chloride	ND	vs	6.0	2.8	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Styrene	ND	vs	6.0	0.30	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Tetrachloroethene	ND	vs	6.0	0.81	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Toluene	ND	vs	6.0	0.46	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.7	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Vinyl chloride	ND	vs	6.0	0.74	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 126*	*07/27/17 09:57*	*07/27/17 12:26*	*1*
Toluene-d8 (Surr)	*91*		*71 - 125*	*07/27/17 09:57*	*07/27/17 12:26*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*	*07/27/17 09:57*	*07/27/17 12:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1

Client Sample ID: TP-16

Date Collected: 07/21/17 14:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-4

Matrix: Solid
Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2,4-Dinitrophenol	ND		2000	950	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2,4-Dinitrotoluene	ND		210	42	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2-Chlorophenol	ND		210	37	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2-Methylnaphthalene	ND		210	41	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2-Methylphenol	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
4-Chloroaniline	ND		210	51	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
4-Chlorophenyl phenyl ether	ND		210	25	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
4-Methylphenol	ND		400	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Acenaphthene	ND		210	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Acenaphthylene	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Acetophenone	ND		210	28	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Anthracene	ND		210	51	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Atrazine	ND		210	71	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Benzaldehyde	ND		210	160	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Benzo(a)anthracene	ND		210	21	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Benzo(a)pyrene	ND		210	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Benzo(b)fluoranthene	ND		210	33	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Benzo(g,h,i)perylene	ND		210	22	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Benzo(k)fluoranthene	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Bis(2-ethylhexyl) phthalate	ND		210	70	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Caprolactam	ND		210	62	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Carbazole	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Chrysene	ND		210	46	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Dibenz(a,h)anthracene	ND		210	36	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Dibenzofuran	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Fluoranthene	ND		210	22	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Fluorene	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1

Client Sample ID: TP-16

Date Collected: 07/21/17 14:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-4

Matrix: Solid
Percent Solids: 81.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Indeno(1,2,3-cd)pyrene	ND		210	25	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Isophorone	ND		210	44	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Naphthalene	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Nitrobenzene	ND		210	23	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Phenanthrene	ND		210	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Phenol	ND		210	31	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1
Pyrene	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*54 - 120*	*07/25/17 07:50*	*08/02/17 00:06*	*1*
2-Fluorobiphenyl	*91*		*60 - 120*	*07/25/17 07:50*	*08/02/17 00:06*	*1*
2-Fluorophenol	*87*		*52 - 120*	*07/25/17 07:50*	*08/02/17 00:06*	*1*
Nitrobenzene-d5	*90*		*53 - 120*	*07/25/17 07:50*	*08/02/17 00:06*	*1*
p-Terphenyl-d14	*98*		*65 - 121*	*07/25/17 07:50*	*08/02/17 00:06*	*1*
Phenol-d5	*89*		*54 - 120*	*07/25/17 07:50*	*08/02/17 00:06*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.40	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
4,4'-DDE	ND		2.0	0.43	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
4,4'-DDT	ND		2.0	0.48	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Aldrin	ND		2.0	0.50	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
alpha-BHC	ND		2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
alpha-Chlordane	ND		2.0	1.0	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
beta-BHC	ND		2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
delta-BHC	ND		2.0	0.38	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Dieldrin	ND		2.0	0.49	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Endosulfan I	ND		2.0	0.39	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Endosulfan II	ND		2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Endrin	ND		2.0	0.40	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Endrin aldehyde	ND		2.0	0.52	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Endrin ketone	ND		2.0	0.50	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
gamma-Chlordane	ND		2.0	0.65	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Heptachlor	ND		2.0	0.44	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Heptachlor epoxide	ND		2.0	0.53	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Methoxychlor	ND		2.0	0.42	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1
Toxaphene	ND		20	12	ug/Kg	☼	07/25/17 07:30	07/26/17 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*45 - 120*	*07/25/17 07:30*	*07/26/17 16:13*	*1*
DCB Decachlorobiphenyl	*107*		*45 - 120*	*07/25/17 07:30*	*07/26/17 16:13*	*1*
Tetrachloro-m-xylene	*76*		*30 - 124*	*07/25/17 07:30*	*07/26/17 16:13*	*1*
Tetrachloro-m-xylene	*71*		*30 - 124*	*07/25/17 07:30*	*07/26/17 16:13*	*1*

Client Sample ID: TP-16

Date Collected: 07/21/17 14:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-4

Matrix: Solid
Percent Solids: 81.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.052	mg/Kg	☼	07/25/17 14:16	07/26/17 17:20	1
PCB-1221	ND		0.26	0.052	mg/Kg	☼	07/25/17 14:16	07/26/17 17:20	1
PCB-1232	ND		0.26	0.052	mg/Kg	☼	07/25/17 14:16	07/26/17 17:20	1
PCB-1242	ND		0.26	0.052	mg/Kg	☼	07/25/17 14:16	07/26/17 17:20	1
PCB-1248	ND		0.26	0.052	mg/Kg	☼	07/25/17 14:16	07/26/17 17:20	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 17:20	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 17:20	1
PCB-1262	ND		0.26	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 17:20	1
PCB-1268	ND		0.26	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*114*		*60 - 154*	*07/25/17 14:16*	*07/26/17 17:20*	*1*
Tetrachloro-m-xylene	*93*		*60 - 154*	*07/25/17 14:16*	*07/26/17 17:20*	*1*
DCB Decachlorobiphenyl	*109*		*65 - 174*	*07/25/17 14:16*	*07/26/17 17:20*	*1*
DCB Decachlorobiphenyl	*80*		*65 - 174*	*07/25/17 14:16*	*07/26/17 17:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3610**		12.3	5.4	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Antimony	ND		18.4	0.49	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Arsenic	**3.2**		2.5	0.49	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Barium	**14.5**		0.61	0.14	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Beryllium	**0.16**	**J**	0.25	0.034	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Cadmium	**0.16**	**J**	0.25	0.037	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Calcium	**44100**	**B**	61.5	4.1	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Chromium	**5.9**		0.61	0.25	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Cobalt	**3.3**		0.61	0.061	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Copper	**7.8**		1.2	0.26	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Iron	**8040**		12.3	4.3	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Lead	**5.6**		1.2	0.30	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Magnesium	**17700**	**B**	24.6	1.1	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Manganese	**317**	**B**	0.25	0.039	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Nickel	**7.3**		6.1	0.28	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Potassium	**1040**		36.9	24.6	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Selenium	ND		4.9	0.49	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Silver	ND		0.74	0.25	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Sodium	**154**	**J**	172	16.0	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Thallium	ND		7.4	0.37	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Vanadium	**12.7**		0.61	0.14	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1
Zinc	**39.3**		2.5	0.79	mg/Kg	☼	07/25/17 15:15	07/26/17 20:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.025	0.010	mg/Kg	☼	07/26/17 16:00	07/26/17 18:00	1

Client Sample ID: TP-17

Date Collected: 07/21/17 13:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-5

Matrix: Solid
Percent Solids: 82.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	6.0	0.44	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.98	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,1,2-Trichloroethane	ND	vs	6.0	0.78	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,1-Dichloroethane	ND	vs	6.0	0.73	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,1-Dichloroethene	ND	vs	6.0	0.74	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,2,4-Trichlorobenzene	ND	vs	6.0	0.37	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,2-Dibromoethane	ND	vs	6.0	0.77	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,2-Dichlorobenzene	ND	vs	6.0	0.47	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,2-Dichloroethane	ND	vs	6.0	0.30	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,2-Dichloropropane	ND	vs	6.0	3.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,3-Dichlorobenzene	ND	vs	6.0	0.31	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
1,4-Dichlorobenzene	ND	vs	6.0	0.84	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Acetone	ND	vs	30	5.1	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Benzene	ND	vs	6.0	0.29	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Bromodichloromethane	ND	vs	6.0	0.81	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Bromoform	ND	vs	6.0	3.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Bromomethane	ND	vs	6.0	0.54	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Carbon disulfide	ND	vs	6.0	3.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Carbon tetrachloride	ND	vs	6.0	0.58	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Chlorobenzene	ND	vs	6.0	0.79	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Dibromochloromethane	ND	vs	6.0	0.77	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Chloroethane	ND	* vs	6.0	1.4	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Chloroform	ND	vs	6.0	0.37	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Chloromethane	ND	vs	6.0	0.36	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
cis-1,2-Dichloroethene	ND	vs	6.0	0.77	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
cis-1,3-Dichloropropene	ND	vs	6.0	0.87	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Cyclohexane	ND	vs	6.0	0.84	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Dichlorodifluoromethane	ND	vs	6.0	0.50	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Ethylbenzene	ND	vs	6.0	0.42	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Isopropylbenzene	ND	vs	6.0	0.91	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Methyl tert-butyl ether	ND	vs	6.0	0.59	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Methylcyclohexane	ND	vs	6.0	0.91	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Methylene Chloride	ND	vs	6.0	2.8	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Styrene	ND	vs	6.0	0.30	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Tetrachloroethene	ND	vs	6.0	0.81	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Toluene	ND	vs	6.0	0.45	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
trans-1,2-Dichloroethene	ND	vs	6.0	0.62	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
trans-1,3-Dichloropropene	ND	vs	6.0	2.6	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Trichloroethene	ND	vs	6.0	1.3	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Trichlorofluoromethane	ND	vs	6.0	0.57	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Vinyl chloride	ND	vs	6.0	0.73	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	07/27/17 09:57	07/27/17 12:51	1

Client Sample ID: TP-17

Date Collected: 07/21/17 13:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-5

Matrix: Solid
Percent Solids: 82.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*	*07/27/17 09:57*	*07/27/17 12:51*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*07/27/17 09:57*	*07/27/17 12:51*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*	*07/27/17 09:57*	*07/27/17 12:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		210	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
bis (2-chloroisopropyl) ether	ND		210	41	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2,4,5-Trichlorophenol	ND		210	56	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2,4,6-Trichlorophenol	ND		210	41	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2,4-Dichlorophenol	ND		210	22	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2,4-Dimethylphenol	ND		210	50	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2,4-Dinitrophenol	ND		2000	950	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2,4-Dinitrotoluene	ND		210	42	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2,6-Dinitrotoluene	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2-Chloronaphthalene	ND		210	34	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2-Chlorophenol	ND		210	37	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2-Methylnaphthalene	ND		210	41	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2-Methylphenol	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2-Nitroaniline	ND		400	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
2-Nitrophenol	ND		210	58	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
3,3'-Dichlorobenzidine	ND		400	240	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
3-Nitroaniline	ND		400	57	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
4,6-Dinitro-2-methylphenol	ND		400	210	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
4-Bromophenyl phenyl ether	ND		210	29	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
4-Chloro-3-methylphenol	ND		210	51	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
4-Chloroaniline	ND		210	51	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
4-Chlorophenyl phenyl ether	ND		210	25	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
4-Methylphenol	ND		400	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
4-Nitroaniline	ND		400	110	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
4-Nitrophenol	ND		400	140	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Acenaphthene	ND		210	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Acenaphthylene	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Acetophenone	ND		210	28	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Anthracene	ND		210	51	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Atrazine	ND		210	71	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Benzaldehyde	ND		210	160	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Benzo(a)anthracene	ND		210	21	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Benzo(a)pyrene	ND		210	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Benzo(b)fluoranthene	ND		210	33	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Benzo(g,h,i)perylene	ND		210	22	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Benzo(k)fluoranthene	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Bis(2-chloroethoxy)methane	ND		210	44	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Bis(2-chloroethyl)ether	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Bis(2-ethylhexyl) phthalate	ND		210	70	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Butyl benzyl phthalate	ND		210	34	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Caprolactam	ND		210	62	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Carbazole	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Chrysene	ND		210	46	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Di-n-butyl phthalate	ND		210	35	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1

Client Sample ID: TP-17
Date Collected: 07/21/17 13:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-5
Matrix: Solid
Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Dibenz(a,h)anthracene	ND		210	36	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Dibenzofuran	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Diethyl phthalate	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Dimethyl phthalate	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Fluoranthene	ND		210	22	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Fluorene	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Hexachlorobenzene	ND		210	28	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Hexachlorobutadiene	ND		210	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Hexachlorocyclopentadiene	ND		210	28	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Hexachloroethane	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Indeno(1,2,3-cd)pyrene	ND		210	25	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Isophorone	ND		210	44	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
N-Nitrosodi-n-propylamine	ND		210	35	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
N-Nitrosodiphenylamine	ND		210	170	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Naphthalene	ND		210	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Nitrobenzene	ND		210	23	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Pentachlorophenol	ND		400	210	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Phenanthrene	ND		210	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Phenol	ND		210	31	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1
Pyrene	ND		210	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*95*		*54 - 120*	*07/25/17 07:50*	*08/02/17 00:32*	*1*
2-Fluorobiphenyl	*89*		*60 - 120*	*07/25/17 07:50*	*08/02/17 00:32*	*1*
2-Fluorophenol	*80*		*52 - 120*	*07/25/17 07:50*	*08/02/17 00:32*	*1*
Nitrobenzene-d5	*84*		*53 - 120*	*07/25/17 07:50*	*08/02/17 00:32*	*1*
p-Terphenyl-d14	*97*		*65 - 121*	*07/25/17 07:50*	*08/02/17 00:32*	*1*
Phenol-d5	*82*		*54 - 120*	*07/25/17 07:50*	*08/02/17 00:32*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
4,4'-DDE	ND		2.0	0.42	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
4,4'-DDT	ND		2.0	0.47	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
alpha-Chlordane	ND		2.0	1.0	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
delta-BHC	**0.47**	**J B**	2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Endrin	ND		2.0	0.40	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
gamma-Chlordane	ND		2.0	0.64	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1

Client Sample ID: TP-17

Date Collected: 07/21/17 13:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-5

Matrix: Solid
Percent Solids: 82.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Methoxychlor	ND		2.0	0.41	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1
Toxaphene	ND		20	12	ug/Kg	☼	07/25/17 07:30	07/26/17 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*45 - 120*	*07/25/17 07:30*	*07/26/17 16:32*	*1*
DCB Decachlorobiphenyl	*113*		*45 - 120*	*07/25/17 07:30*	*07/26/17 16:32*	*1*
Tetrachloro-m-xylene	*79*		*30 - 124*	*07/25/17 07:30*	*07/26/17 16:32*	*1*
Tetrachloro-m-xylene	*85*		*30 - 124*	*07/25/17 07:30*	*07/26/17 16:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26	0.051	mg/Kg	☼	07/25/17 14:16	07/26/17 17:36	1
PCB-1221	ND		0.26	0.051	mg/Kg	☼	07/25/17 14:16	07/26/17 17:36	1
PCB-1232	ND		0.26	0.051	mg/Kg	☼	07/25/17 14:16	07/26/17 17:36	1
PCB-1242	ND		0.26	0.051	mg/Kg	☼	07/25/17 14:16	07/26/17 17:36	1
PCB-1248	ND		0.26	0.051	mg/Kg	☼	07/25/17 14:16	07/26/17 17:36	1
PCB-1254	ND		0.26	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 17:36	1
PCB-1260	ND		0.26	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 17:36	1
PCB-1262	ND		0.26	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 17:36	1
PCB-1268	ND		0.26	0.12	mg/Kg	☼	07/25/17 14:16	07/26/17 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*128*		*60 - 154*	*07/25/17 14:16*	*07/26/17 17:36*	*1*
Tetrachloro-m-xylene	*111*		*60 - 154*	*07/25/17 14:16*	*07/26/17 17:36*	*1*
DCB Decachlorobiphenyl	*118*		*65 - 174*	*07/25/17 14:16*	*07/26/17 17:36*	*1*
DCB Decachlorobiphenyl	*87*		*65 - 174*	*07/25/17 14:16*	*07/26/17 17:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**3780**		11.3	5.0	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Antimony	ND		17.0	0.45	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Arsenic	**3.8**		2.3	0.45	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Barium	**19.5**		0.57	0.12	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Beryllium	**0.17**	**J**	0.23	0.032	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Cadmium	**0.17**	**J**	0.23	0.034	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Calcium	**38000**	**B**	56.7	3.7	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Chromium	**5.7**		0.57	0.23	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Cobalt	**3.4**		0.57	0.057	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Copper	**6.8**		1.1	0.24	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Iron	**7820**		11.3	4.0	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Lead	**5.4**		1.1	0.27	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Magnesium	**15000**	**B**	22.7	1.1	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Manganese	**290**	**B**	0.23	0.036	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Nickel	**7.2**		5.7	0.26	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Potassium	**1010**		34.0	22.7	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Selenium	ND		4.5	0.45	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Silver	ND		0.68	0.23	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Sodium	**140**	**J**	159	14.7	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Thallium	ND		6.8	0.34	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1

Client Sample ID: TP-17

Lab Sample ID: 480-121501-5
Date Collected: 07/21/17 13:00
Matrix: Solid
Date Received: 07/21/17 16:30
Percent Solids: 82.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**12.1**		0.57	0.12	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1
Zinc	**36.5**		2.3	0.73	mg/Kg	☼	07/25/17 15:15	07/26/17 20:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023	0.0094	mg/Kg	☼	07/26/17 16:00	07/26/17 18:02	1

Client Sample ID: DUP

Lab Sample ID: 480-121501-6
Date Collected: 07/21/17 00:00
Matrix: Solid
Date Received: 07/21/17 16:30
Percent Solids: 83.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9	0.43	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,1,2-Trichloroethane	ND	vs	5.9	0.77	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.4	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,1-Dichloroethane	ND	vs	5.9	0.73	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,1-Dichloroethene	ND	vs	5.9	0.73	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	3.0	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,2-Dibromoethane	ND	vs	5.9	0.76	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,2-Dichloroethane	ND	vs	5.9	0.30	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,2-Dichloropropane	ND	vs	5.9	3.0	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,3-Dichlorobenzene	ND	vs	5.9	0.31	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
1,4-Dichlorobenzene	ND	vs	5.9	0.83	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
2-Hexanone	ND	vs	30	3.0	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
2-Butanone (MEK)	ND	vs	30	2.2	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
4-Methyl-2-pentanone (MIBK)	ND	vs	30	1.9	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Acetone	**8.9**	**J vs**	30	5.0	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Benzene	ND	vs	5.9	0.29	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Bromodichloromethane	ND	vs	5.9	0.80	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Bromoform	ND	vs	5.9	3.0	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Bromomethane	ND	* vs	5.9	0.53	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Carbon disulfide	ND	vs	5.9	3.0	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Carbon tetrachloride	ND	vs	5.9	0.58	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Chlorobenzene	ND	vs	5.9	0.78	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Dibromochloromethane	ND	vs	5.9	0.76	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Chloroethane	ND	* vs	5.9	1.3	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Chloroform	ND	vs	5.9	0.37	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Chloromethane	ND	vs	5.9	0.36	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
cis-1,2-Dichloroethene	ND	vs	5.9	0.76	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.86	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Cyclohexane	ND	vs	5.9	0.83	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Dichlorodifluoromethane	ND	vs	5.9	0.49	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Ethylbenzene	ND	vs	5.9	0.41	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Isopropylbenzene	ND	vs	5.9	0.90	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Methyl acetate	ND	vs	30	3.6	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Methyl tert-butyl ether	ND	vs	5.9	0.58	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1

Client Sample ID: DUP
Date Collected: 07/21/17 00:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-6
Matrix: Solid
Percent Solids: 83.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND	vs	5.9	0.90	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Methylene Chloride	ND	vs	5.9	2.7	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Styrene	ND	vs	5.9	0.30	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Tetrachloroethene	ND	vs	5.9	0.80	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Toluene	ND	vs	5.9	0.45	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.61	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Trichloroethene	ND	vs	5.9	1.3	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Trichlorofluoromethane	ND	vs	5.9	0.56	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Vinyl chloride	ND	vs	5.9	0.73	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1
Xylenes, Total	ND	vs	12	1.0	ug/Kg	☼	07/26/17 21:23	07/27/17 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 126*	*07/26/17 21:23*	*07/27/17 04:53*	*1*
Toluene-d8 (Surr)	*93*		*71 - 125*	*07/26/17 21:23*	*07/27/17 04:53*	*1*
4-Bromofluorobenzene (Surr)	*91*		*72 - 126*	*07/26/17 21:23*	*07/27/17 04:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		200	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2,4-Dinitrophenol	ND		2000	930	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2,6-Dinitrotoluene	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2-Chlorophenol	ND		200	37	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2-Methylphenol	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2-Nitroaniline	ND		390	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
2-Nitrophenol	ND		200	57	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
3,3'-Dichlorobenzidine	ND		390	240	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
4-Chloro-3-methylphenol	ND		200	50	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
4-Chloroaniline	ND		200	50	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
4-Methylphenol	ND		390	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
4-Nitroaniline	ND		390	110	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Acenaphthene	ND		200	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Acenaphthylene	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Acetophenone	ND		200	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Anthracene	ND		200	50	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Atrazine	ND		200	70	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Benzaldehyde	ND		200	160	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1

Client Sample ID: DUP
Date Collected: 07/21/17 00:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-6
Matrix: Solid
Percent Solids: 83.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(a)anthracene	ND		200	20	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Benzo(a)pyrene	ND		200	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Benzo(b)fluoranthene	ND		200	32	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Benzo(g,h,i)perylene	ND		200	21	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Benzo(k)fluoranthene	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Caprolactam	ND		200	60	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Carbazole	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Chrysene	ND		200	45	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Di-n-octyl phthalate	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Dibenzofuran	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Diethyl phthalate	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Dimethyl phthalate	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Fluoranthene	ND		200	21	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Fluorene	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Hexachlorobutadiene	ND		200	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Hexachloroethane	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Indeno(1,2,3-cd)pyrene	ND		200	25	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Isophorone	ND		200	42	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Naphthalene	ND		200	26	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Nitrobenzene	ND		200	22	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Phenanthrene	ND		200	30	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Phenol	ND		200	31	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1
Pyrene	ND		200	24	ug/Kg	☼	07/25/17 07:50	08/02/17 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*54 - 120*	*07/25/17 07:50*	*08/02/17 00:58*	*1*
2-Fluorobiphenyl	*84*		*60 - 120*	*07/25/17 07:50*	*08/02/17 00:58*	*1*
2-Fluorophenol	*80*		*52 - 120*	*07/25/17 07:50*	*08/02/17 00:58*	*1*
Nitrobenzene-d5	*82*		*53 - 120*	*07/25/17 07:50*	*08/02/17 00:58*	*1*
p-Terphenyl-d14	*108*		*65 - 121*	*07/25/17 07:50*	*08/02/17 00:58*	*1*
Phenol-d5	*85*		*54 - 120*	*07/25/17 07:50*	*08/02/17 00:58*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.39	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
4,4'-DDE	ND		2.0	0.42	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Aldrin	ND		2.0	0.49	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1

Client Sample ID: DUP
Date Collected: 07/21/17 00:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-6
Matrix: Solid
Percent Solids: 83.8

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		2.0	0.99	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
delta-BHC	**0.41**	**J B**	2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Dieldrin	ND		2.0	0.48	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Endrin	ND		2.0	0.39	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Endrin aldehyde	ND		2.0	0.51	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Endrin ketone	ND		2.0	0.49	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
gamma-Chlordane	ND		2.0	0.63	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1
Toxaphene	ND		20	12	ug/Kg	☼	07/25/17 07:30	07/26/17 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*45 - 120*	*07/25/17 07:30*	*07/26/17 16:52*	*1*
DCB Decachlorobiphenyl	*108*		*45 - 120*	*07/25/17 07:30*	*07/26/17 16:52*	*1*
Tetrachloro-m-xylene	*75*		*30 - 124*	*07/25/17 07:30*	*07/26/17 16:52*	*1*
Tetrachloro-m-xylene	*83*		*30 - 124*	*07/25/17 07:30*	*07/26/17 16:52*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.047	mg/Kg	☼	07/25/17 14:16	07/26/17 17:52	1
PCB-1221	ND		0.24	0.047	mg/Kg	☼	07/25/17 14:16	07/26/17 17:52	1
PCB-1232	ND		0.24	0.047	mg/Kg	☼	07/25/17 14:16	07/26/17 17:52	1
PCB-1242	ND		0.24	0.047	mg/Kg	☼	07/25/17 14:16	07/26/17 17:52	1
PCB-1248	ND		0.24	0.047	mg/Kg	☼	07/25/17 14:16	07/26/17 17:52	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	07/25/17 14:16	07/26/17 17:52	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	07/25/17 14:16	07/26/17 17:52	1
PCB-1262	ND		0.24	0.11	mg/Kg	☼	07/25/17 14:16	07/26/17 17:52	1
PCB-1268	ND		0.24	0.11	mg/Kg	☼	07/25/17 14:16	07/26/17 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*152*		*60 - 154*	*07/25/17 14:16*	*07/26/17 17:52*	*1*
Tetrachloro-m-xylene	*129*		*60 - 154*	*07/25/17 14:16*	*07/26/17 17:52*	*1*
DCB Decachlorobiphenyl	*157*		*65 - 174*	*07/25/17 14:16*	*07/26/17 17:52*	*1*
DCB Decachlorobiphenyl	*118*		*65 - 174*	*07/25/17 14:16*	*07/26/17 17:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5030**		12.1	5.3	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Antimony	ND		18.2	0.49	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Arsenic	**3.6**		2.4	0.49	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Barium	**18.9**		0.61	0.13	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Beryllium	**0.22**	**J**	0.24	0.034	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Cadmium	**0.13**	**J**	0.24	0.036	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Calcium	**58800**	**B**	60.7	4.0	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1

Client Sample ID: DUP

Date Collected: 07/21/17 00:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-6

Matrix: Solid
Percent Solids: 83.8

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	7.4		0.61	0.24	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Cobalt	3.3		0.61	0.061	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Copper	7.4		1.2	0.25	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Iron	9620		12.1	4.2	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Lead	5.4		1.2	0.29	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Magnesium	20800	B	24.3	1.1	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Manganese	325	B	0.24	0.039	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Nickel	8.5		6.1	0.28	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Potassium	1240		36.4	24.3	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Selenium	ND		4.9	0.49	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Silver	ND		0.73	0.24	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Sodium	186		170	15.8	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Thallium	ND		7.3	0.36	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Vanadium	14.3		0.61	0.13	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1
Zinc	32.1		2.4	0.78	mg/Kg	☼	07/25/17 15:15	07/27/17 10:43	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023	0.0094	mg/Kg	☼	07/26/17 16:00	07/26/17 18:03	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121501-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(64-126)	(71-125)	(72-126)
480-121501-1	TP-13	91	92	95
480-121501-2	TP-12	93	95	91
480-121501-3	TP-11	91	92	96
480-121501-3 MS	TP-11	77	94	99
480-121501-3 MSD	TP-11	75	94	99
480-121501-4	TP-16	87	91	97
480-121501-5	TP-17	90	93	97
480-121501-6	DUP	91	93	91
LCS 480-368925/1-A	Lab Control Sample	96	95	102
LCS 480-369004/1-A	Lab Control Sample	91	95	104
MB 480-368925/2-A	Method Blank	94	92	94
MB 480-369004/2-A	Method Blank	91	91	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(65-121)	(54-120)
480-121501-1	TP-13	96	89	86	92	100	87
480-121501-2	TP-12	69	84	69	72	95	74
480-121501-3	TP-11	70	87	72	73	105	71
480-121501-3 MS	TP-11	65	84	59	71	93	69
480-121501-3 MSD	TP-11	87	88	79	78	100	84
480-121501-4	TP-16	95	91	87	90	98	89
480-121501-5	TP-17	95	89	80	84	97	82
480-121501-6	DUP	98	84	80	82	108	85
LCS 480-368504/2-A	Lab Control Sample	101	92	85	92	94	87
MB 480-368504/1-A	Method Blank	86	88	82	87	97	85

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-121501-1	TP-13	89	101	76	71

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121501-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-121501-2	TP-12	99	163 X	88	72
480-121501-3	TP-11	93	123 X	108	75
480-121501-3 MS	TP-11	84	105	94	73
480-121501-3 MSD	TP-11	80	101	95	73
480-121501-4	TP-16	89	107	76	71
480-121501-5	TP-17	91	113	79	85
480-121501-6	DUP	90	108	75	83
LCS 480-368494/2-A	Lab Control Sample	90	98	74	63
MB 480-368494/1-A	Method Blank	95	104	77	60

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(60-154)	(60-154)	(65-174)	(65-174)
480-121501-1	TP-13	140	120	136	101
480-121501-2	TP-12	149	120	147	108
480-121501-3	TP-11	142	123	144	113
480-121501-3 MS	TP-11	156 X	124	159	124
480-121501-3 MSD	TP-11	161 X	137	162	127
480-121501-4	TP-16	114	93	109	80
480-121501-5	TP-17	128	111	118	87
480-121501-6	DUP	152	129	157	118
LCS 480-368612/2-A	Lab Control Sample	170 X	136	186 X	144
MB 480-368612/1-A	Method Blank	159 X	136	157	135

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-368925/2-A
Matrix: Solid
Analysis Batch: 368916

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,2,4-Trichlorobenzene	0.467	J	5.0	0.30	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
2-Hexanone	ND		25	2.5	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Acetone	ND		25	4.2	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Benzene	ND		5.0	0.25	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Bromoform	ND		5.0	2.5	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Bromomethane	ND		5.0	0.45	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Chloroethane	ND		5.0	1.1	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Chloroform	ND		5.0	0.31	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Chloromethane	ND		5.0	0.30	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Cyclohexane	ND		5.0	0.70	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Methyl acetate	ND		25	3.0	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Styrene	ND		5.0	0.25	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Toluene	ND		5.0	0.38	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Trichloroethene	ND		5.0	1.1	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		07/26/17 21:23	07/26/17 23:00	1
Xylenes, Total	ND		10	0.84	ug/Kg		07/26/17 21:23	07/26/17 23:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*64 - 126*	*07/26/17 21:23*	*07/26/17 23:00*	*1*
Toluene-d8 (Surr)	*92*		*71 - 125*	*07/26/17 21:23*	*07/26/17 23:00*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 126*	*07/26/17 21:23*	*07/26/17 23:00*	*1*

Lab Sample ID: LCS 480-368925/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 368916 **Prep Batch: 368925**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.6		ug/Kg		101	77 - 121
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/Kg		105	80 - 120
1,1,2-Trichloroethane	50.0	48.7		ug/Kg		97	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.3		ug/Kg		99	60 - 140
1,1-Dichloroethane	50.0	49.4		ug/Kg		99	73 - 126
1,1-Dichloroethene	50.0	50.0		ug/Kg		100	59 - 125
1,2,4-Trichlorobenzene	50.0	45.6		ug/Kg		91	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	54.2		ug/Kg		108	63 - 124
1,2-Dibromoethane	50.0	48.7		ug/Kg		97	78 - 120
1,2-Dichlorobenzene	50.0	48.4		ug/Kg		97	75 - 120
1,2-Dichloroethane	50.0	49.4		ug/Kg		99	77 - 122
1,2-Dichloropropane	50.0	48.5		ug/Kg		97	75 - 124
1,3-Dichlorobenzene	50.0	48.9		ug/Kg		98	74 - 120
1,4-Dichlorobenzene	50.0	48.6		ug/Kg		97	73 - 120
2-Hexanone	250	266		ug/Kg		106	59 - 130
2-Butanone (MEK)	250	268		ug/Kg		107	70 - 134
4-Methyl-2-pentanone (MIBK)	250	252		ug/Kg		101	65 - 133
Acetone	250	252		ug/Kg		101	61 - 137
Benzene	50.0	49.2		ug/Kg		98	79 - 127
Bromodichloromethane	50.0	53.4		ug/Kg		107	80 - 122
Bromoform	50.0	46.6		ug/Kg		93	68 - 126
Bromomethane	50.0	101	*	ug/Kg		202	37 - 149
Carbon disulfide	50.0	44.1		ug/Kg		88	64 - 131
Carbon tetrachloride	50.0	55.2		ug/Kg		110	75 - 135
Chlorobenzene	50.0	46.9		ug/Kg		94	76 - 124
Dibromochloromethane	50.0	47.5		ug/Kg		95	76 - 125
Chloroethane	50.0	89.1	*	ug/Kg		178	69 - 135
Chloroform	50.0	49.6		ug/Kg		99	80 - 120
Chloromethane	50.0	53.3		ug/Kg		107	63 - 127
cis-1,2-Dichloroethene	50.0	49.7		ug/Kg		99	81 - 120
cis-1,3-Dichloropropene	50.0	50.5		ug/Kg		101	80 - 120
Cyclohexane	50.0	48.2		ug/Kg		96	65 - 120
Dichlorodifluoromethane	50.0	54.2		ug/Kg		108	57 - 142
Ethylbenzene	50.0	48.9		ug/Kg		98	80 - 120
Isopropylbenzene	50.0	48.9		ug/Kg		98	72 - 120
Methyl acetate	250	253		ug/Kg		101	55 - 136
Methyl tert-butyl ether	50.0	49.4		ug/Kg		99	63 - 125
Methylcyclohexane	50.0	47.3		ug/Kg		95	60 - 140
Methylene Chloride	50.0	50.8		ug/Kg		102	61 - 127
Styrene	50.0	47.3		ug/Kg		95	80 - 120
Tetrachloroethene	50.0	46.0		ug/Kg		92	74 - 122
Toluene	50.0	47.0		ug/Kg		94	74 - 128
trans-1,2-Dichloroethene	50.0	49.0		ug/Kg		98	78 - 126
trans-1,3-Dichloropropene	50.0	50.9		ug/Kg		102	73 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-368925/1-A
Matrix: Solid
Analysis Batch: 368916

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	50.0	48.3		ug/Kg		97	77 - 129
Trichlorofluoromethane	50.0	58.5		ug/Kg		117	65 - 146
Vinyl chloride	50.0	54.4		ug/Kg		109	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
Toluene-d8 (Surr)	*95*		*71 - 125*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*

Lab Sample ID: MB 480-369004/2-A
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2,4-Trichlorobenzene	0.438	J	5.0	0.30	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
2-Hexanone	ND		25	2.5	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Acetone	4.42	J	25	4.2	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Benzene	ND		5.0	0.25	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Bromoform	ND		5.0	2.5	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Bromomethane	ND		5.0	0.45	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Chloroethane	ND		5.0	1.1	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Chloroform	ND		5.0	0.31	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Chloromethane	ND		5.0	0.30	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Cyclohexane	ND		5.0	0.70	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		07/27/17 09:57	07/27/17 11:47	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-369004/2-A
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 369004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	0.75	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Methyl acetate	ND		25	3.0	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Styrene	ND		5.0	0.25	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Toluene	ND		5.0	0.38	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Trichloroethene	ND		5.0	1.1	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		07/27/17 09:57	07/27/17 11:47	1
Xylenes, Total	ND		10	0.84	ug/Kg		07/27/17 09:57	07/27/17 11:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 126*	*07/27/17 09:57*	*07/27/17 11:47*	*1*
Toluene-d8 (Surr)	*91*		*71 - 125*	*07/27/17 09:57*	*07/27/17 11:47*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*07/27/17 09:57*	*07/27/17 11:47*	*1*

Lab Sample ID: LCS 480-369004/1-A
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	44.2		ug/Kg		88	77 - 121
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/Kg		103	80 - 120
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.1		ug/Kg		76	60 - 140
1,1-Dichloroethane	50.0	46.8		ug/Kg		94	73 - 126
1,1-Dichloroethene	50.0	42.4		ug/Kg		85	59 - 125
1,2,4-Trichlorobenzene	50.0	44.0		ug/Kg		88	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	49.9		ug/Kg		100	63 - 124
1,2-Dibromoethane	50.0	48.8		ug/Kg		98	78 - 120
1,2-Dichlorobenzene	50.0	46.9		ug/Kg		94	75 - 120
1,2-Dichloroethane	50.0	48.3		ug/Kg		97	77 - 122
1,2-Dichloropropane	50.0	47.1		ug/Kg		94	75 - 124
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	74 - 120
1,4-Dichlorobenzene	50.0	47.3		ug/Kg		95	73 - 120
2-Hexanone	250	252		ug/Kg		101	59 - 130
2-Butanone (MEK)	250	258		ug/Kg		103	70 - 134
4-Methyl-2-pentanone (MIBK)	250	248		ug/Kg		99	65 - 133
Acetone	250	260		ug/Kg		104	61 - 137
Benzene	50.0	45.8		ug/Kg		92	79 - 127
Bromodichloromethane	50.0	52.2		ug/Kg		104	80 - 122
Bromoform	50.0	44.2		ug/Kg		88	68 - 126
Bromomethane	50.0	70.0		ug/Kg		140	37 - 149

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-369004/1-A
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	50.0	37.7		ug/Kg		75	64 - 131
Carbon tetrachloride	50.0	46.2		ug/Kg		92	75 - 135
Chlorobenzene	50.0	45.8		ug/Kg		92	76 - 124
Dibromochloromethane	50.0	47.4		ug/Kg		95	76 - 125
Chloroethane	50.0	69.3	*	ug/Kg		139	69 - 135
Chloroform	50.0	47.7		ug/Kg		95	80 - 120
Chloromethane	50.0	46.6		ug/Kg		93	63 - 127
cis-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	81 - 120
cis-1,3-Dichloropropene	50.0	48.1		ug/Kg		96	80 - 120
Cyclohexane	50.0	38.4		ug/Kg		77	65 - 120
Dichlorodifluoromethane	50.0	35.1		ug/Kg		70	57 - 142
Ethylbenzene	50.0	46.1		ug/Kg		92	80 - 120
Isopropylbenzene	50.0	45.0		ug/Kg		90	72 - 120
Methyl acetate	250	262		ug/Kg		105	55 - 136
Methyl tert-butyl ether	50.0	48.7		ug/Kg		97	63 - 125
Methylcyclohexane	50.0	36.9		ug/Kg		74	60 - 140
Methylene Chloride	50.0	50.6		ug/Kg		101	61 - 127
Styrene	50.0	46.0		ug/Kg		92	80 - 120
Tetrachloroethene	50.0	41.0		ug/Kg		82	74 - 122
Toluene	50.0	45.2		ug/Kg		90	74 - 128
trans-1,2-Dichloroethene	50.0	45.3		ug/Kg		91	78 - 126
trans-1,3-Dichloropropene	50.0	50.7		ug/Kg		101	73 - 123
Trichloroethene	50.0	43.8		ug/Kg		88	77 - 129
Trichlorofluoromethane	50.0	42.8		ug/Kg		86	65 - 146
Vinyl chloride	50.0	44.3		ug/Kg		89	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*64 - 126*
Toluene-d8 (Surr)	*95*		*71 - 125*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*

Lab Sample ID: 480-121501-3 MS
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	vs	61.4	52.6	vs	ug/Kg	☼	86	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1 vs	61.4	48.6	F1 vs	ug/Kg	☼	79	80 - 120
1,1,2-Trichloroethane	ND	vs	61.4	49.7	vs	ug/Kg	☼	81	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	61.4	49.1	vs	ug/Kg	☼	80	60 - 140
1,1-Dichloroethane	ND	vs	61.4	56.1	vs	ug/Kg	☼	91	73 - 126
1,1-Dichloroethene	ND	vs	61.4	52.6	vs	ug/Kg	☼	86	59 - 125
1,2,4-Trichlorobenzene	ND	F1 vs	61.4	33.6	F1 vs	ug/Kg	☼	55	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1 vs	61.4	36.9	F1 vs	ug/Kg	☼	60	63 - 124
1,2-Dibromoethane	ND	F1 vs	61.4	45.4	F1 vs	ug/Kg	☼	74	78 - 120
1,2-Dichlorobenzene	ND	vs	61.4	47.4	vs	ug/Kg	☼	77	75 - 120
1,2-Dichloroethane	ND	vs	61.4	50.1	vs	ug/Kg	☼	82	77 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-121501-3 MS
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	ND	vs	61.4	52.8	vs	ug/Kg	☼	86	75 - 124
1,3-Dichlorobenzene	ND	vs	61.4	48.8	vs	ug/Kg	☼	80	74 - 120
1,4-Dichlorobenzene	ND	vs	61.4	48.2	vs	ug/Kg	☼	79	73 - 120
2-Hexanone	ND	vs	307	205	vs	ug/Kg	☼	67	59 - 130
2-Butanone (MEK)	ND	F1 vs	307	188	F1 vs	ug/Kg	☼	61	70 - 134
4-Methyl-2-pentanone (MIBK)	ND	vs	307	211	vs	ug/Kg	☼	69	65 - 133
Acetone	ND	vs	307	189	vs	ug/Kg	☼	62	61 - 137
Benzene	ND	vs	61.4	54.4	vs	ug/Kg	☼	89	79 - 127
Bromodichloromethane	ND	vs	61.4	56.2	vs	ug/Kg	☼	92	80 - 122
Bromoform	ND	F1 vs	61.4	37.7	F1 vs	ug/Kg	☼	61	68 - 126
Bromomethane	ND	F1 vs	61.4	102	F1 vs	ug/Kg	☼	166	37 - 149
Carbon disulfide	ND	vs	61.4	41.3	vs	ug/Kg	☼	67	64 - 131
Carbon tetrachloride	ND	vs	61.4	54.1	vs	ug/Kg	☼	88	75 - 135
Chlorobenzene	ND	vs	61.4	49.9	vs	ug/Kg	☼	81	76 - 124
Dibromochloromethane	ND	F1 vs	61.4	46.0	F1 vs	ug/Kg	☼	75	76 - 125
Chloroethane	ND	* F1 vs	61.4	97.9	F1 vs	ug/Kg	☼	160	69 - 135
Chloroform	ND	vs	61.4	55.8	vs	ug/Kg	☼	91	80 - 120
Chloromethane	ND	vs	61.4	57.8	vs	ug/Kg	☼	94	63 - 127
cis-1,2-Dichloroethene	ND	vs	61.4	53.6	vs	ug/Kg	☼	87	80 - 120
cis-1,3-Dichloropropene	ND	F1 vs	61.4	47.5	F1 vs	ug/Kg	☼	77	80 - 120
Cyclohexane	ND	vs	61.4	46.4	vs	ug/Kg	☼	76	65 - 120
Dichlorodifluoromethane	ND	vs	61.4	49.2	vs	ug/Kg	☼	80	57 - 142
Ethylbenzene	ND	vs	61.4	52.8	vs	ug/Kg	☼	86	80 - 120
Isopropylbenzene	ND	vs	61.4	54.0	vs	ug/Kg	☼	88	72 - 120
Methyl acetate	ND	vs	307	197	vs	ug/Kg	☼	64	55 - 136
Methyl tert-butyl ether	ND	vs	61.4	48.0	vs	ug/Kg	☼	78	63 - 125
Methylcyclohexane	ND	vs	61.4	42.1	vs	ug/Kg	☼	69	60 - 140
Methylene Chloride	ND	vs	61.4	59.4	vs	ug/Kg	☼	97	61 - 127
Styrene	ND	F1 vs	61.4	48.2	F1 vs	ug/Kg	☼	79	80 - 120
Tetrachloroethene	ND	vs	61.4	45.9	vs	ug/Kg	☼	75	74 - 122
Toluene	ND	vs	61.4	52.5	vs	ug/Kg	☼	86	74 - 128
trans-1,2-Dichloroethene	ND	vs	61.4	52.4	vs	ug/Kg	☼	85	78 - 126
trans-1,3-Dichloropropene	ND	vs	61.4	48.2	vs	ug/Kg	☼	79	73 - 123
Trichloroethene	ND	vs	61.4	50.1	vs	ug/Kg	☼	82	77 - 129
Trichlorofluoromethane	ND	vs	61.4	61.3	vs	ug/Kg	☼	100	65 - 146
Vinyl chloride	ND	vs	61.4	57.8	vs	ug/Kg	☼	94	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*77*		*64 - 126*
Toluene-d8 (Surr)	*94*		*71 - 125*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*

Lab Sample ID: 480-121501-3 MSD
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	vs	61.4	53.9	vs	ug/Kg	☼	88	77 - 121	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-121501-3 MSD
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 369004

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	ND	F1 vs	61.4	50.1	vs	ug/Kg	☼	82	80 - 120	3	30
1,1,2-Trichloroethane	ND	vs	61.4	49.8	vs	ug/Kg	☼	81	78 - 122	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	61.4	49.1	vs	ug/Kg	☼	80	60 - 140	0	30
1,1-Dichloroethane	ND	vs	61.4	57.7	vs	ug/Kg	☼	94	73 - 126	3	30
1,1-Dichloroethene	ND	vs	61.4	52.7	vs	ug/Kg	☼	86	59 - 125	0	30
1,2,4-Trichlorobenzene	ND	F1 vs	61.4	32.2	F1 vs	ug/Kg	☼	52	64 - 120	4	30
1,2-Dibromo-3-Chloropropane	ND	F1 vs	61.4	37.8	F1 vs	ug/Kg	☼	62	63 - 124	2	30
1,2-Dibromoethane	ND	F1 vs	61.4	45.4	F1 vs	ug/Kg	☼	74	78 - 120	0	30
1,2-Dichlorobenzene	ND	vs	61.4	47.4	vs	ug/Kg	☼	77	75 - 120	0	30
1,2-Dichloroethane	ND	vs	61.4	51.5	vs	ug/Kg	☼	84	77 - 122	3	30
1,2-Dichloropropane	ND	vs	61.4	55.0	vs	ug/Kg	☼	90	75 - 124	4	30
1,3-Dichlorobenzene	ND	vs	61.4	48.6	vs	ug/Kg	☼	79	74 - 120	0	30
1,4-Dichlorobenzene	ND	vs	61.4	48.4	vs	ug/Kg	☼	79	73 - 120	0	30
2-Hexanone	ND	vs	307	197	vs	ug/Kg	☼	64	59 - 130	4	30
2-Butanone (MEK)	ND	F1 vs	307	186	F1 vs	ug/Kg	☼	61	70 - 134	1	30
4-Methyl-2-pentanone (MIBK)	ND	vs	307	209	vs	ug/Kg	☼	68	65 - 133	1	30
Acetone	ND	vs	307	187	vs	ug/Kg	☼	61	61 - 137	1	30
Benzene	ND	vs	61.4	55.9	vs	ug/Kg	☼	91	79 - 127	3	30
Bromodichloromethane	ND	vs	61.4	57.6	vs	ug/Kg	☼	94	80 - 122	2	30
Bromoform	ND	F1 vs	61.4	38.4	F1 vs	ug/Kg	☼	63	68 - 126	2	30
Bromomethane	ND	F1 vs	61.4	104	F1 vs	ug/Kg	☼	170	37 - 149	2	30
Carbon disulfide	ND	vs	61.4	40.3	vs	ug/Kg	☼	66	64 - 131	3	30
Carbon tetrachloride	ND	vs	61.4	55.3	vs	ug/Kg	☼	90	75 - 135	2	30
Chlorobenzene	ND	vs	61.4	49.8	vs	ug/Kg	☼	81	76 - 124	0	30
Dibromochloromethane	ND	F1 vs	61.4	47.1	vs	ug/Kg	☼	77	76 - 125	2	30
Chloroethane	ND	* F1 vs	61.4	97.9	F1 vs	ug/Kg	☼	159	69 - 135	0	30
Chloroform	ND	vs	61.4	56.7	vs	ug/Kg	☼	92	80 - 120	2	30
Chloromethane	ND	vs	61.4	60.1	vs	ug/Kg	☼	98	63 - 127	4	30
cis-1,2-Dichloroethene	ND	vs	61.4	55.2	vs	ug/Kg	☼	90	80 - 120	3	30
cis-1,3-Dichloropropene	ND	F1 vs	61.4	48.3	F1 vs	ug/Kg	☼	79	80 - 120	2	30
Cyclohexane	ND	vs	61.4	45.0	vs	ug/Kg	☼	73	65 - 120	3	30
Dichlorodifluoromethane	ND	vs	61.4	49.2	vs	ug/Kg	☼	80	57 - 142	0	30
Ethylbenzene	ND	vs	61.4	52.5	vs	ug/Kg	☼	86	80 - 120	0	30
Isopropylbenzene	ND	vs	61.4	55.1	vs	ug/Kg	☼	90	72 - 120	2	30
Methyl acetate	ND	vs	307	199	vs	ug/Kg	☼	65	55 - 136	1	30
Methyl tert-butyl ether	ND	vs	61.4	50.1	vs	ug/Kg	☼	82	63 - 125	4	30
Methylcyclohexane	ND	vs	61.4	40.0	vs	ug/Kg	☼	65	60 - 140	5	30
Methylene Chloride	ND	vs	61.4	60.5	vs	ug/Kg	☼	99	61 - 127	2	30
Styrene	ND	F1 vs	61.4	48.2	F1 vs	ug/Kg	☼	79	80 - 120	0	30
Tetrachloroethene	ND	vs	61.4	46.0	vs	ug/Kg	☼	75	74 - 122	0	30
Toluene	ND	vs	61.4	53.3	vs	ug/Kg	☼	87	74 - 128	2	30
trans-1,2-Dichloroethene	ND	vs	61.4	54.5	vs	ug/Kg	☼	89	78 - 126	4	30
trans-1,3-Dichloropropene	ND	vs	61.4	48.3	vs	ug/Kg	☼	79	73 - 123	0	30
Trichloroethene	ND	vs	61.4	50.4	vs	ug/Kg	☼	82	77 - 129	1	30
Trichlorofluoromethane	ND	vs	61.4	61.2	vs	ug/Kg	☼	100	65 - 146	0	30
Vinyl chloride	ND	vs	61.4	59.1	vs	ug/Kg	☼	96	61 - 133	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-121501-3 MSD
Matrix: Solid
Analysis Batch: 368964

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 369004

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*75*		*64 - 126*
Toluene-d8 (Surr)	*94*		*71 - 125*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-368504/1-A
Matrix: Solid
Analysis Batch: 369868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2-Chloronaphthalene	ND		170	28	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2-Chlorophenol	ND		170	31	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2-Methylnaphthalene	ND		170	34	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2-Methylphenol	ND		170	20	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2-Nitroaniline	ND		330	25	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
2-Nitrophenol	ND		170	47	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
3-Nitroaniline	ND		330	46	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
4-Chloroaniline	ND		170	41	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
4-Methylphenol	ND		330	20	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
4-Nitroaniline	ND		330	88	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
4-Nitrophenol	ND		330	120	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Acenaphthene	ND		170	25	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Acenaphthylene	ND		170	22	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Acetophenone	ND		170	23	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Anthracene	ND		170	41	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Atrazine	ND		170	58	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Benzaldehyde	ND		170	130	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Benzo(a)anthracene	ND		170	17	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Benzo(a)pyrene	ND		170	25	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Benzo(b)fluoranthene	ND		170	27	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Benzo(g,h,i)perylene	ND		170	18	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Benzo(k)fluoranthene	ND		170	22	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		07/25/17 07:50	08/01/17 19:43	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-368504/1-A
Matrix: Solid
Analysis Batch: 369868

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368504

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Caprolactam	ND		170	50	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Carbazole	ND		170	20	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Chrysene	ND		170	38	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Dibenzofuran	ND		170	20	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Diethyl phthalate	ND		170	22	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Dimethyl phthalate	ND		170	20	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Fluoranthene	ND		170	18	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Fluorene	ND		170	20	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Hexachlorobenzene	ND		170	23	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Hexachlorobutadiene	ND		170	25	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Hexachloroethane	ND		170	22	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Indeno(1,2,3-cd)pyrene	ND		170	21	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Isophorone	ND		170	36	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Naphthalene	ND		170	22	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Nitrobenzene	ND		170	19	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Pentachlorophenol	ND		330	170	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Phenanthrene	ND		170	25	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Phenol	ND		170	26	ug/Kg		07/25/17 07:50	08/01/17 19:43	1
Pyrene	ND		170	20	ug/Kg		07/25/17 07:50	08/01/17 19:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*54 - 120*	*07/25/17 07:50*	*08/01/17 19:43*	*1*
2-Fluorobiphenyl	*88*		*60 - 120*	*07/25/17 07:50*	*08/01/17 19:43*	*1*
2-Fluorophenol	*82*		*52 - 120*	*07/25/17 07:50*	*08/01/17 19:43*	*1*
Nitrobenzene-d5	*87*		*53 - 120*	*07/25/17 07:50*	*08/01/17 19:43*	*1*
p-Terphenyl-d14	*97*		*65 - 121*	*07/25/17 07:50*	*08/01/17 19:43*	*1*
Phenol-d5	*85*		*54 - 120*	*07/25/17 07:50*	*08/01/17 19:43*	*1*

Lab Sample ID: LCS 480-368504/2-A
Matrix: Solid
Analysis Batch: 369868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	1640	1500		ug/Kg		92	59 - 120
bis (2-chloroisopropyl) ether	1640	1380		ug/Kg		84	44 - 120
2,4,5-Trichlorophenol	1640	1630		ug/Kg		100	59 - 126
2,4,6-Trichlorophenol	1640	1530		ug/Kg		94	59 - 123
2,4-Dichlorophenol	1640	1460		ug/Kg		89	61 - 120
2,4-Dimethylphenol	1640	1500		ug/Kg		92	59 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-368504/2-A
Matrix: Solid
Analysis Batch: 369868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrophenol	3270	2970		ug/Kg		91	41 - 146
2,4-Dinitrotoluene	1640	1640		ug/Kg		100	63 - 120
2,6-Dinitrotoluene	1640	1650		ug/Kg		101	66 - 120
2-Chloronaphthalene	1640	1530		ug/Kg		93	57 - 120
2-Chlorophenol	1640	1330		ug/Kg		82	53 - 120
2-Methylnaphthalene	1640	1440		ug/Kg		88	59 - 120
2-Methylphenol	1640	1400		ug/Kg		86	54 - 120
2-Nitroaniline	1640	1710		ug/Kg		105	61 - 120
2-Nitrophenol	1640	1480		ug/Kg		91	56 - 120
3,3'-Dichlorobenzidine	3270	3060		ug/Kg		94	54 - 120
3-Nitroaniline	1640	1510		ug/Kg		92	48 - 120
4,6-Dinitro-2-methylphenol	3270	2830		ug/Kg		87	49 - 122
4-Bromophenyl phenyl ether	1640	1650		ug/Kg		101	58 - 120
4-Chloro-3-methylphenol	1640	1570		ug/Kg		96	61 - 120
4-Chloroaniline	1640	1270		ug/Kg		78	38 - 120
4-Chlorophenyl phenyl ether	1640	1560		ug/Kg		95	63 - 124
4-Methylphenol	1640	1420		ug/Kg		87	55 - 120
4-Nitroaniline	1640	1580		ug/Kg		97	56 - 120
4-Nitrophenol	3270	3150		ug/Kg		96	43 - 147
Acenaphthene	1640	1520		ug/Kg		93	62 - 120
Acenaphthylene	1640	1550		ug/Kg		95	58 - 121
Acetophenone	1640	1360		ug/Kg		83	54 - 120
Anthracene	1640	1590		ug/Kg		97	62 - 120
Atrazine	3270	3420		ug/Kg		105	60 - 127
Benzaldehyde	3270	1990		ug/Kg		61	10 - 150
Benzo(a)anthracene	1640	1610		ug/Kg		98	65 - 120
Benzo(a)pyrene	1640	1630		ug/Kg		100	64 - 120
Benzo(b)fluoranthene	1640	1720		ug/Kg		105	64 - 120
Benzo(g,h,i)perylene	1640	1770		ug/Kg		108	45 - 145
Benzo(k)fluoranthene	1640	1500		ug/Kg		92	65 - 120
Bis(2-chloroethoxy)methane	1640	1420		ug/Kg		87	55 - 120
Bis(2-chloroethyl)ether	1640	1330		ug/Kg		82	45 - 120
Bis(2-ethylhexyl) phthalate	1640	1640		ug/Kg		100	61 - 133
Butyl benzyl phthalate	1640	1620		ug/Kg		99	61 - 129
Caprolactam	3270	3170		ug/Kg		97	47 - 120
Carbazole	1640	1650		ug/Kg		101	65 - 120
Chrysene	1640	1620		ug/Kg		99	64 - 120
Di-n-butyl phthalate	1640	1640		ug/Kg		100	58 - 130
Di-n-octyl phthalate	1640	1690		ug/Kg		104	57 - 133
Dibenz(a,h)anthracene	1640	1770		ug/Kg		108	54 - 132
Dibenzofuran	1640	1510		ug/Kg		92	63 - 120
Diethyl phthalate	1640	1560		ug/Kg		95	66 - 120
Dimethyl phthalate	1640	1580		ug/Kg		97	65 - 124
Fluoranthene	1640	1640		ug/Kg		101	62 - 120
Fluorene	1640	1560		ug/Kg		95	63 - 120
Hexachlorobenzene	1640	1630		ug/Kg		100	60 - 120
Hexachlorobutadiene	1640	1360		ug/Kg		83	45 - 120
Hexachlorocyclopentadiene	1640	1560		ug/Kg		96	47 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-368504/2-A
Matrix: Solid
Analysis Batch: 369868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachloroethane	1640	1230		ug/Kg		75	41 - 120
Indeno(1,2,3-cd)pyrene	1640	1740		ug/Kg		107	56 - 134
Isophorone	1640	1430		ug/Kg		88	56 - 120
N-Nitrosodi-n-propylamine	1640	1390		ug/Kg		85	52 - 120
N-Nitrosodiphenylamine	1640	1600		ug/Kg		98	51 - 128
Naphthalene	1640	1390		ug/Kg		85	55 - 120
Nitrobenzene	1640	1430		ug/Kg		87	54 - 120
Pentachlorophenol	3270	3060		ug/Kg		94	51 - 120
Phenanthrene	1640	1620		ug/Kg		99	60 - 120
Phenol	1640	1380		ug/Kg		84	53 - 120
Pyrene	1640	1540		ug/Kg		94	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*101*		*54 - 120*
2-Fluorobiphenyl	*92*		*60 - 120*
2-Fluorophenol	*85*		*52 - 120*
Nitrobenzene-d5	*92*		*53 - 120*
p-Terphenyl-d14	*94*		*65 - 121*
Phenol-d5	*87*		*54 - 120*

Lab Sample ID: 480-121501-3 MS
Matrix: Solid
Analysis Batch: 369868

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		2040	1790	J	ug/Kg	☼	88	58 - 120
bis (2-chloroisopropyl) ether	ND		2040	1450	J	ug/Kg	☼	71	31 - 120
2,4,5-Trichlorophenol	ND		2040	1620	J	ug/Kg	☼	79	46 - 120
2,4,6-Trichlorophenol	ND		2040	1600	J	ug/Kg	☼	78	41 - 123
2,4-Dichlorophenol	ND		2040	1470	J	ug/Kg	☼	72	45 - 120
2,4-Dimethylphenol	ND		2040	1560	J	ug/Kg	☼	76	52 - 120
2,4-Dinitrophenol	ND		4080	ND		ug/Kg	☼	NC	41 - 146
2,4-Dinitrotoluene	ND		2040	1460	J	ug/Kg	☼	71	63 - 125
2,6-Dinitrotoluene	ND		2040	1580	J	ug/Kg	☼	78	66 - 120
2-Chloronaphthalene	ND		2040	1740	J	ug/Kg	☼	85	57 - 120
2-Chlorophenol	ND		2040	1370	J	ug/Kg	☼	67	43 - 120
2-Methylnaphthalene	ND		2040	1590	J	ug/Kg	☼	78	55 - 120
2-Methylphenol	ND		2040	1450	J	ug/Kg	☼	71	48 - 120
2-Nitroaniline	ND		2040	1580	J	ug/Kg	☼	77	61 - 120
2-Nitrophenol	ND		2040	1360	J	ug/Kg	☼	66	37 - 120
3,3'-Dichlorobenzidine	ND		4080	3490	J	ug/Kg	☼	85	37 - 126
3-Nitroaniline	ND		2040	1320	J	ug/Kg	☼	65	48 - 120
4,6-Dinitro-2-methylphenol	ND		4080	3510	J	ug/Kg	☼	86	23 - 149
4-Bromophenyl phenyl ether	ND		2040	1870	J	ug/Kg	☼	92	58 - 120
4-Chloro-3-methylphenol	ND		2040	1550	J	ug/Kg	☼	76	49 - 125
4-Chloroaniline	ND		2040	1260	J	ug/Kg	☼	62	38 - 120
4-Chlorophenyl phenyl ether	ND		2040	1770	J	ug/Kg	☼	86	63 - 124
4-Methylphenol	ND		2040	1530	J	ug/Kg	☼	75	50 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-121501-3 MS
Matrix: Solid
Analysis Batch: 369868

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitroaniline	ND		2040	1270	J	ug/Kg	☼	62	47 - 120
4-Nitrophenol	ND		4080	3990	J	ug/Kg	☼	98	31 - 147
Acenaphthene	ND		2040	1700	J	ug/Kg	☼	83	60 - 120
Acenaphthylene	ND		2040	1700	J	ug/Kg	☼	83	58 - 121
Acetophenone	ND		2040	1390	J	ug/Kg	☼	68	47 - 120
Anthracene	ND		2040	1780	J	ug/Kg	☼	87	62 - 120
Atrazine	ND		4080	3500		ug/Kg	☼	86	60 - 150
Benzaldehyde	ND	F2	4080	1820	J	ug/Kg	☼	45	10 - 150
Benzo(a)anthracene	ND		2040	2010	J	ug/Kg	☼	98	65 - 120
Benzo(a)pyrene	ND		2040	1960	J	ug/Kg	☼	96	64 - 120
Benzo(b)fluoranthene	ND		2040	1990	J	ug/Kg	☼	98	64 - 120
Benzo(g,h,i)perylene	ND		2040	2230		ug/Kg	☼	109	45 - 145
Benzo(k)fluoranthene	ND		2040	1920	J	ug/Kg	☼	94	65 - 120
Bis(2-chloroethoxy)methane	ND		2040	1480	J	ug/Kg	☼	73	52 - 120
Bis(2-chloroethyl)ether	ND		2040	1310	J	ug/Kg	☼	64	45 - 120
Bis(2-ethylhexyl) phthalate	ND		2040	1910	J	ug/Kg	☼	94	61 - 133
Butyl benzyl phthalate	ND		2040	1810	J	ug/Kg	☼	89	61 - 120
Caprolactam	ND		4080	3120		ug/Kg	☼	76	37 - 133
Carbazole	ND		2040	1780	J	ug/Kg	☼	87	59 - 120
Chrysene	ND		2040	2120		ug/Kg	☼	104	64 - 120
Di-n-butyl phthalate	ND		2040	1770	J	ug/Kg	☼	87	58 - 130
Di-n-octyl phthalate	ND		2040	1850	J	ug/Kg	☼	90	57 - 133
Dibenz(a,h)anthracene	ND		2040	2050	J	ug/Kg	☼	100	54 - 132
Dibenzofuran	ND		2040	1800	J	ug/Kg	☼	88	62 - 120
Diethyl phthalate	ND		2040	1710	J	ug/Kg	☼	84	66 - 120
Dimethyl phthalate	ND		2040	1720	J	ug/Kg	☼	84	65 - 124
Fluoranthene	270	J	2040	2000	J	ug/Kg	☼	85	62 - 120
Fluorene	ND		2040	1840	J	ug/Kg	☼	90	63 - 120
Hexachlorobenzene	ND		2040	1750	J	ug/Kg	☼	85	60 - 120
Hexachlorobutadiene	ND		2040	1430	J	ug/Kg	☼	70	45 - 120
Hexachlorocyclopentadiene	ND		2040	1200	J	ug/Kg	☼	59	31 - 120
Hexachloroethane	ND		2040	1090	J	ug/Kg	☼	54	21 - 120
Indeno(1,2,3-cd)pyrene	ND		2040	2090	J	ug/Kg	☼	102	56 - 134
Isophorone	ND		2040	1400	J	ug/Kg	☼	69	56 - 120
N-Nitrosodi-n-propylamine	ND		2040	1300	J	ug/Kg	☼	64	46 - 120
N-Nitrosodiphenylamine	ND		2040	1840	J	ug/Kg	☼	90	20 - 128
Naphthalene	ND		2040	1490	J	ug/Kg	☼	73	46 - 120
Nitrobenzene	ND		2040	1280	J	ug/Kg	☼	63	49 - 120
Pentachlorophenol	ND		4080	3710	J	ug/Kg	☼	91	25 - 136
Phenanthrene	ND		2040	2110		ug/Kg	☼	103	60 - 122
Phenol	ND		2040	1420	J	ug/Kg	☼	70	50 - 120
Pyrene	ND		2040	2060	J	ug/Kg	☼	101	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*65*		*54 - 120*
2-Fluorobiphenyl	*84*		*60 - 120*
2-Fluorophenol	*59*		*52 - 120*
Nitrobenzene-d5	*71*		*53 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-121501-3 MS
Matrix: Solid
Analysis Batch: 369868

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368504

Surrogate	MS %Recovery	MS Qualifier	Limits
p-Terphenyl-d14	93		65 - 121
Phenol-d5	69		54 - 120

Lab Sample ID: 480-121501-3 MSD
Matrix: Solid
Analysis Batch: 369868

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		2000	1810	J	ug/Kg	☼	90	58 - 120	1	20
bis (2-chloroisopropyl) ether	ND		2000	1580	J	ug/Kg	☼	79	31 - 120	9	24
2,4,5-Trichlorophenol	ND		2000	1550	J	ug/Kg	☼	78	46 - 120	4	18
2,4,6-Trichlorophenol	ND		2000	1520	J	ug/Kg	☼	76	41 - 123	5	19
2,4-Dichlorophenol	ND		2000	1650	J	ug/Kg	☼	82	45 - 120	12	19
2,4-Dimethylphenol	ND		2000	1770	J	ug/Kg	☼	88	52 - 120	13	42
2,4-Dinitrophenol	ND		4010	ND		ug/Kg	☼	NC	41 - 146	NC	22
2,4-Dinitrotoluene	ND		2000	1470	J	ug/Kg	☼	73	63 - 125	1	20
2,6-Dinitrotoluene	ND		2000	1650	J	ug/Kg	☼	82	66 - 120	4	15
2-Chloronaphthalene	ND		2000	1760	J	ug/Kg	☼	88	57 - 120	1	21
2-Chlorophenol	ND		2000	1520	J	ug/Kg	☼	76	43 - 120	10	25
2-Methylnaphthalene	ND		2000	1800	J	ug/Kg	☼	90	55 - 120	12	21
2-Methylphenol	ND		2000	1560	J	ug/Kg	☼	78	48 - 120	7	27
2-Nitroaniline	ND		2000	1610	J	ug/Kg	☼	80	61 - 120	2	15
2-Nitrophenol	ND		2000	1610	J	ug/Kg	☼	80	37 - 120	17	18
3,3'-Dichlorobenzidine	ND		4010	3520	J	ug/Kg	☼	88	37 - 126	1	25
3-Nitroaniline	ND		2000	1390	J	ug/Kg	☼	70	48 - 120	5	19
4,6-Dinitro-2-methylphenol	ND		4010	3640	J	ug/Kg	☼	91	23 - 149	4	15
4-Bromophenyl phenyl ether	ND		2000	1820	J	ug/Kg	☼	91	58 - 120	3	15
4-Chloro-3-methylphenol	ND		2000	1710	J	ug/Kg	☼	85	49 - 125	10	27
4-Chloroaniline	ND		2000	1510	J	ug/Kg	☼	76	38 - 120	18	22
4-Chlorophenyl phenyl ether	ND		2000	1830	J	ug/Kg	☼	91	63 - 124	3	16
4-Methylphenol	ND		2000	1690	J	ug/Kg	☼	84	50 - 120	10	24
4-Nitroaniline	ND		2000	1510	J	ug/Kg	☼	75	47 - 120	17	24
4-Nitrophenol	ND		4010	4240		ug/Kg	☼	106	31 - 147	6	25
Acenaphthene	ND		2000	1810	J	ug/Kg	☼	90	60 - 120	7	35
Acenaphthylene	ND		2000	1820	J	ug/Kg	☼	91	58 - 121	7	18
Acetophenone	ND		2000	1550	J	ug/Kg	☼	78	47 - 120	11	20
Anthracene	ND		2000	1810	J	ug/Kg	☼	90	62 - 120	2	15
Atrazine	ND		4010	3880		ug/Kg	☼	97	60 - 150	10	20
Benzaldehyde	ND	F2	4010	2260	F2	ug/Kg	☼	56	10 - 150	22	20
Benzo(a)anthracene	ND		2000	1970	J	ug/Kg	☼	98	65 - 120	2	15
Benzo(a)pyrene	ND		2000	1860	J	ug/Kg	☼	93	64 - 120	6	15
Benzo(b)fluoranthene	ND		2000	1850	J	ug/Kg	☼	92	64 - 120	8	15
Benzo(g,h,i)perylene	ND		2000	1970	J	ug/Kg	☼	98	45 - 145	12	15
Benzo(k)fluoranthene	ND		2000	1980	J	ug/Kg	☼	99	65 - 120	3	22
Bis(2-chloroethoxy)methane	ND		2000	1690	J	ug/Kg	☼	84	52 - 120	13	17
Bis(2-chloroethyl)ether	ND		2000	1510	J	ug/Kg	☼	75	45 - 120	14	21
Bis(2-ethylhexyl) phthalate	ND		2000	2150		ug/Kg	☼	107	61 - 133	11	15
Butyl benzyl phthalate	ND		2000	1980	J	ug/Kg	☼	99	61 - 120	9	16

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-121501-3 MSD
Matrix: Solid
Analysis Batch: 369868

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Caprolactam	ND		4010	3450		ug/Kg	☼	86	37 - 133	10	20
Carbazole	ND		2000	1880	J	ug/Kg	☼	94	59 - 120	5	20
Chrysene	ND		2000	1990	J	ug/Kg	☼	100	64 - 120	6	15
Di-n-butyl phthalate	ND		2000	1920	J	ug/Kg	☼	96	58 - 130	9	15
Di-n-octyl phthalate	ND		2000	1710	J	ug/Kg	☼	85	57 - 133	8	16
Dibenz(a,h)anthracene	ND		2000	1820	J	ug/Kg	☼	91	54 - 132	12	15
Dibenzofuran	ND		2000	1840	J	ug/Kg	☼	92	62 - 120	2	15
Diethyl phthalate	ND		2000	1850	J	ug/Kg	☼	92	66 - 120	8	15
Dimethyl phthalate	ND		2000	1920	J	ug/Kg	☼	96	65 - 124	11	15
Fluoranthene	270	J	2000	1930	J	ug/Kg	☼	83	62 - 120	3	15
Fluorene	ND		2000	1870	J	ug/Kg	☼	93	63 - 120	1	15
Hexachlorobenzene	ND		2000	1880	J	ug/Kg	☼	94	60 - 120	8	15
Hexachlorobutadiene	ND		2000	1620	J	ug/Kg	☼	81	45 - 120	12	44
Hexachlorocyclopentadiene	ND		2000	1250	J	ug/Kg	☼	62	31 - 120	4	49
Hexachloroethane	ND		2000	1320	J	ug/Kg	☼	66	21 - 120	19	46
Indeno(1,2,3-cd)pyrene	ND		2000	1950	J	ug/Kg	☼	97	56 - 134	7	15
Isophorone	ND		2000	1630	J	ug/Kg	☼	81	56 - 120	15	17
N-Nitrosodi-n-propylamine	ND		2000	1640	J	ug/Kg	☼	82	46 - 120	23	31
N-Nitrosodiphenylamine	ND		2000	1780	J	ug/Kg	☼	89	20 - 128	4	15
Naphthalene	ND		2000	1690	J	ug/Kg	☼	84	46 - 120	13	29
Nitrobenzene	ND		2000	1500	J	ug/Kg	☼	75	49 - 120	15	24
Pentachlorophenol	ND		4010	3640	J	ug/Kg	☼	91	25 - 136	2	35
Phenanthrene	ND		2000	1960	J	ug/Kg	☼	98	60 - 122	8	15
Phenol	ND		2000	1500	J	ug/Kg	☼	75	50 - 120	6	35
Pyrene	ND		2000	2150		ug/Kg	☼	108	61 - 133	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*87*		*54 - 120*
2-Fluorobiphenyl	*88*		*60 - 120*
2-Fluorophenol	*79*		*52 - 120*
Nitrobenzene-d5	*78*		*53 - 120*
p-Terphenyl-d14	*100*		*65 - 121*
Phenol-d5	*84*		*54 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-368494/1-A
Matrix: Solid
Analysis Batch: 368774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
4,4'-DDT	ND		1.6	0.38	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Aldrin	ND		1.6	0.40	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
alpha-BHC	ND		1.6	0.29	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
alpha-Chlordane	ND		1.6	0.81	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
beta-BHC	ND		1.6	0.29	ug/Kg		07/25/17 07:30	07/26/17 13:16	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-368494/1-A
Matrix: Solid
Analysis Batch: 368774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	0.460	J	1.6	0.30	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Dieldrin	ND		1.6	0.39	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Endosulfan I	ND		1.6	0.31	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Endosulfan II	ND		1.6	0.29	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Endosulfan sulfate	ND		1.6	0.30	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Endrin	ND		1.6	0.32	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Endrin aldehyde	ND		1.6	0.42	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Endrin ketone	ND		1.6	0.40	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
gamma-Chlordane	ND		1.6	0.52	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Heptachlor	ND		1.6	0.35	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Methoxychlor	ND		1.6	0.33	ug/Kg		07/25/17 07:30	07/26/17 13:16	1
Toxaphene	ND		16	9.5	ug/Kg		07/25/17 07:30	07/26/17 13:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*45 - 120*	*07/25/17 07:30*	*07/26/17 13:16*	*1*
DCB Decachlorobiphenyl	*104*		*45 - 120*	*07/25/17 07:30*	*07/26/17 13:16*	*1*
Tetrachloro-m-xylene	*77*		*30 - 124*	*07/25/17 07:30*	*07/26/17 13:16*	*1*
Tetrachloro-m-xylene	*60*		*30 - 124*	*07/25/17 07:30*	*07/26/17 13:16*	*1*

Lab Sample ID: LCS 480-368494/2-A
Matrix: Solid
Analysis Batch: 368774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.4	12.7		ug/Kg		78	56 - 120
4,4'-DDE	16.4	12.0		ug/Kg		73	44 - 120
4,4'-DDT	16.4	13.8		ug/Kg		84	38 - 120
Aldrin	16.4	11.0		ug/Kg		67	38 - 120
alpha-BHC	16.4	10.3		ug/Kg		63	39 - 120
alpha-Chlordane	16.4	10.0		ug/Kg		61	47 - 120
beta-BHC	16.4	11.2		ug/Kg		68	40 - 120
delta-BHC	16.4	11.6		ug/Kg		70	45 - 120
Dieldrin	16.4	13.2		ug/Kg		81	58 - 120
Endosulfan I	16.4	9.48		ug/Kg		58	49 - 120
Endosulfan II	16.4	10.5		ug/Kg		64	55 - 120
Endosulfan sulfate	16.4	17.2		ug/Kg		105	49 - 124
Endrin	16.4	13.2		ug/Kg		81	58 - 120
Endrin aldehyde	16.4	11.6		ug/Kg		71	37 - 121
Endrin ketone	16.4	13.9		ug/Kg		85	46 - 123
gamma-BHC (Lindane)	16.4	11.0		ug/Kg		67	50 - 120
gamma-Chlordane	16.4	11.4		ug/Kg		69	48 - 120
Heptachlor	16.4	12.7		ug/Kg		77	50 - 120
Heptachlor epoxide	16.4	12.5		ug/Kg		76	50 - 120
Methoxychlor	16.4	14.3		ug/Kg		87	58 - 133

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-368494/2-A
Matrix: Solid
Analysis Batch: 368774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368494

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	90		45 - 120
DCB Decachlorobiphenyl	98		45 - 120
Tetrachloro-m-xylene	74		30 - 124
Tetrachloro-m-xylene	63		30 - 124

Lab Sample ID: 480-121501-3 MS
Matrix: Solid
Analysis Batch: 368774

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	F1 F2	20.4	30.5	F1	ug/Kg	☼	150	37 - 126
4,4'-DDE	13		20.4	21.7		ug/Kg	☼	42	34 - 120
4,4'-DDT	ND		20.4	20.2		ug/Kg	☼	99	43 - 123
Aldrin	ND	F2	20.4	16.9		ug/Kg	☼	83	37 - 125
alpha-BHC	ND		20.4	13.1		ug/Kg	☼	64	39 - 120
alpha-Chlordane	ND		20.4	15.7		ug/Kg	☼	77	35 - 120
beta-BHC	3.0	J	20.4	14.4		ug/Kg	☼	56	36 - 120
delta-BHC	7.3	J B	20.4	18.9		ug/Kg	☼	57	34 - 120
Dieldrin	20	F1	20.4	26.2	F1	ug/Kg	☼	30	45 - 120
Endosulfan I	ND		20.4	11.7		ug/Kg	☼	57	39 - 120
Endosulfan II	2.2	J	20.4	11.3		ug/Kg	☼	45	34 - 126
Endosulfan sulfate	ND		20.4	17.9		ug/Kg	☼	88	27 - 130
Endrin	3.8	J	20.4	15.0		ug/Kg	☼	55	47 - 121
Endrin aldehyde	ND		20.4	13.3		ug/Kg	☼	65	33 - 123
Endrin ketone	ND		20.4	18.4		ug/Kg	☼	90	43 - 126
gamma-BHC (Lindane)	ND		20.4	14.9		ug/Kg	☼	73	50 - 120
gamma-Chlordane	ND		20.4	12.9		ug/Kg	☼	63	31 - 120
Heptachlor	ND		20.4	15.0		ug/Kg	☼	74	42 - 120
Heptachlor epoxide	2.7	J	20.4	16.3		ug/Kg	☼	67	40 - 120
Methoxychlor	9.2	J	20.4	21.1		ug/Kg	☼	58	44 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	84		45 - 120
DCB Decachlorobiphenyl	105		45 - 120
Tetrachloro-m-xylene	94		30 - 124
Tetrachloro-m-xylene	73		30 - 124

Lab Sample ID: 480-121501-3 MSD
Matrix: Solid
Analysis Batch: 368774

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	F1 F2	20.4	17.6	F2	ug/Kg	☼	87	37 - 126	53	21
4,4'-DDE	13		20.4	21.7		ug/Kg	☼	42	34 - 120	0	18
4,4'-DDT	ND		20.4	20.9		ug/Kg	☼	102	43 - 123	3	25
Aldrin	ND	F2	20.4	9.19	J F2	ug/Kg	☼	45	37 - 125	59	12
alpha-BHC	ND		20.4	12.5		ug/Kg	☼	62	39 - 120	4	15
alpha-Chlordane	ND		20.4	16.0		ug/Kg	☼	79	35 - 120	2	23

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-121501-3 MSD
Matrix: Solid
Analysis Batch: 368774

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
beta-BHC	3.0	J	20.4	13.4		ug/Kg	☼	51	36 - 120	7	19
delta-BHC	7.3	J B	20.4	18.5		ug/Kg	☼	55	34 - 120	2	14
Dieldrin	20	F1	20.4	27.0	F1	ug/Kg	☼	34	45 - 120	3	12
Endosulfan I	ND		20.4	11.8		ug/Kg	☼	58	39 - 120	1	18
Endosulfan II	2.2	J	20.4	11.1		ug/Kg	☼	44	34 - 126	2	26
Endosulfan sulfate	ND		20.4	17.0		ug/Kg	☼	83	27 - 130	5	35
Endrin	3.8	J	20.4	14.9		ug/Kg	☼	54	47 - 121	1	20
Endrin aldehyde	ND		20.4	12.5		ug/Kg	☼	61	33 - 123	6	47
Endrin ketone	ND		20.4	17.6		ug/Kg	☼	86	43 - 126	4	37
gamma-BHC (Lindane)	ND		20.4	14.8		ug/Kg	☼	72	50 - 120	1	12
gamma-Chlordane	ND		20.4	12.4		ug/Kg	☼	61	31 - 120	4	15
Heptachlor	ND		20.4	14.5		ug/Kg	☼	71	42 - 120	3	22
Heptachlor epoxide	2.7	J	20.4	15.2		ug/Kg	☼	61	40 - 120	7	15
Methoxychlor	9.2	J	20.4	22.1		ug/Kg	☼	63	44 - 150	5	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*80*		*45 - 120*
DCB Decachlorobiphenyl	*101*		*45 - 120*
Tetrachloro-m-xylene	*95*		*30 - 124*
Tetrachloro-m-xylene	*73*		*30 - 124*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-368612/1-A
Matrix: Solid
Analysis Batch: 368775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.044	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1221	ND		0.22	0.044	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1232	ND		0.22	0.044	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1242	ND		0.22	0.044	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1248	ND		0.22	0.044	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1254	ND		0.22	0.10	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1260	ND		0.22	0.10	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1262	ND		0.22	0.10	mg/Kg		07/25/17 14:16	07/26/17 13:35	1
PCB-1268	ND		0.22	0.10	mg/Kg		07/25/17 14:16	07/26/17 13:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*159*	*X*	*60 - 154*	*07/25/17 14:16*	*07/26/17 13:35*	*1*
Tetrachloro-m-xylene	*136*		*60 - 154*	*07/25/17 14:16*	*07/26/17 13:35*	*1*
DCB Decachlorobiphenyl	*157*		*65 - 174*	*07/25/17 14:16*	*07/26/17 13:35*	*1*
DCB Decachlorobiphenyl	*135*		*65 - 174*	*07/25/17 14:16*	*07/26/17 13:35*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-368612/2-A
Matrix: Solid
Analysis Batch: 368775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368612

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			2.26	3.51		mg/Kg		155	51 - 185		
PCB-1260			2.26	3.24		mg/Kg		143	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*170*	*X*	*60 - 154*
Tetrachloro-m-xylene	*136*		*60 - 154*
DCB Decachlorobiphenyl	*186*	*X*	*65 - 174*
DCB Decachlorobiphenyl	*144*		*65 - 174*

Lab Sample ID: 480-121501-3 MS
Matrix: Solid
Analysis Batch: 368775

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2.31	3.17		mg/Kg	☼	137	50 - 177		
PCB-1260	0.48		2.31	3.26		mg/Kg	☼	121	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*156*	*X*	*60 - 154*
Tetrachloro-m-xylene	*124*		*60 - 154*
DCB Decachlorobiphenyl	*159*		*65 - 174*
DCB Decachlorobiphenyl	*124*		*65 - 174*

Lab Sample ID: 480-121501-3 MSD
Matrix: Solid
Analysis Batch: 368775

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.15	3.36		mg/Kg	☼	156	50 - 177	6	50
PCB-1260	0.48		2.15	3.61		mg/Kg	☼	146	33 - 200	10	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*161*	*X*	*60 - 154*
Tetrachloro-m-xylene	*137*		*60 - 154*
DCB Decachlorobiphenyl	*162*		*65 - 174*
DCB Decachlorobiphenyl	*127*		*65 - 174*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-368566/1-A
Matrix: Solid
Analysis Batch: 368994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368566

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		10.5	4.6	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Antimony	ND		15.8	0.42	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Arsenic	ND		2.1	0.42	mg/Kg		07/25/17 15:15	07/26/17 19:24	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-368566/1-A
Matrix: Solid
Analysis Batch: 368994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 368566

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		0.53	0.12	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Beryllium	ND		0.21	0.029	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Cadmium	ND		0.21	0.032	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Calcium	6.72	J	52.6	3.5	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Chromium	ND		0.53	0.21	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Cobalt	ND		0.53	0.053	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Copper	ND		1.1	0.22	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Iron	ND		10.5	3.7	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Lead	ND		1.1	0.25	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Magnesium	1.30	J	21.0	0.98	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Manganese	0.0642	J	0.21	0.034	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Nickel	ND		5.3	0.24	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Potassium	ND		31.6	21.0	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Selenium	ND		4.2	0.42	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Silver	ND		0.63	0.21	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Sodium	ND		147	13.7	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Thallium	ND		6.3	0.32	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Vanadium	ND		0.53	0.12	mg/Kg		07/25/17 15:15	07/26/17 19:24	1
Zinc	ND		2.1	0.67	mg/Kg		07/25/17 15:15	07/26/17 19:24	1

Lab Sample ID: LCSSRM 480-368566/2-A
Matrix: Solid
Analysis Batch: 368994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368566

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8200	10620		mg/Kg		129.5	40.0 - 159.8
Antimony	105	78.59		mg/Kg		74.8	19.6 - 254.3
Arsenic	221	213.9		mg/Kg		96.8	71.0 - 133.5
Barium	428	427.9		mg/Kg		100	74.3 - 125.5
Beryllium	112	112.0		mg/Kg		100.0	75.0 - 125.0
Cadmium	126	122.0		mg/Kg		96.8	73.3 - 126.2
Calcium	6160	6033		mg/Kg		97.9	73.9 - 126.1
Chromium	74.7	77.32		mg/Kg		103.5	68.5 - 131.3
Cobalt	198	231.7		mg/Kg		117.0	74.7 - 125.8
Copper	83.3	87.75		mg/Kg		105.3	73.8 - 130.9
Iron	14600	16710		mg/Kg		114.4	36.1 - 163.7
Lead	76.9	93.34		mg/Kg		121.4	68.8 - 131.3
Magnesium	3180	3265		mg/Kg		102.7	67.0 - 133.3

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-368566/2-A
Matrix: Solid
Analysis Batch: 368994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 368566

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	452	483.8		mg/Kg		107.0	76.5 - 123.5
Nickel	178	213.3		mg/Kg		119.8	73.6 - 128.7
Potassium	2820	3389		mg/Kg		120.2	62.1 - 137.9
Selenium	111	106.6		mg/Kg		96.1	65.7 - 134.2
Silver	59.6	57.11		mg/Kg		95.8	66.8 - 133.1
Sodium	643	684.6		mg/Kg		106.5	54.9 - 145.1
Thallium	151	167.8		mg/Kg		111.2	68.2 - 131.1
Vanadium	150	156.8		mg/Kg		104.5	70.7 - 129.3
Zinc	338	326.9		mg/Kg		96.7	71.9 - 127.8

Lab Sample ID: 480-121501-3 MS
Matrix: Solid
Analysis Batch: 368994

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368566

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	6360	F2 F1	2340	9997	F1	mg/Kg	☼	156	75 - 125
Antimony	0.80	J F1	46.8	35.60	F1	mg/Kg	☼	74	75 - 125
Arsenic	3.2	F2	46.8	39.20		mg/Kg	☼	77	75 - 125
Barium	522	F2	46.8	285.9	4	mg/Kg	☼	-505	75 - 125
Beryllium	0.27	F2	46.8	38.77		mg/Kg	☼	82	75 - 125
Cadmium	0.93	F2 F1	46.8	71.20	F1	mg/Kg	☼	150	75 - 125
Calcium	44500	F2 B	2340	33230	4	mg/Kg	☼	-483	75 - 125
Chromium	19.5	F2 F1	46.8	54.23	F1	mg/Kg	☼	74	75 - 125
Cobalt	4.3	F2	46.8	43.73		mg/Kg	☼	84	75 - 125
Copper	22.4		46.8	79.87		mg/Kg	☼	123	75 - 125
Iron	11700	F2	2340	10740	4	mg/Kg	☼	-43	75 - 125
Lead	87.2	F2 F1	46.8	71.72	F1	mg/Kg	☼	-33	75 - 125
Magnesium	15700	F2 B	2340	12820	4	mg/Kg	☼	-123	75 - 125
Manganese	299	F2 B	46.8	270.9	4	mg/Kg	☼	-61	75 - 125
Nickel	23.4	F2 F1	46.8	56.04	F1	mg/Kg	☼	70	75 - 125
Potassium	1370	F2 F1	2340	4228		mg/Kg	☼	122	75 - 125
Selenium	ND	F2	46.8	37.96		mg/Kg	☼	81	75 - 125
Silver	1.1	F2 F1	11.7	9.27	F1	mg/Kg	☼	70	75 - 125
Sodium	155	J F2	2340	2168		mg/Kg	☼	86	75 - 125
Thallium	ND	F2	46.8	39.90		mg/Kg	☼	85	75 - 125
Vanadium	16.6	F2	46.8	55.81		mg/Kg	☼	84	75 - 125
Zinc	97.9	F2 F1	46.8	109.2	F1	mg/Kg	☼	24	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-121501-3 MSD — **Client Sample ID: TP-11**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 368994 — **Prep Batch: 368566**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	6360	F2 F1	2640	14770	F1 F2	mg/Kg	☼	319	75 - 125	39	20
Antimony	0.80	J F1	52.8	43.62		mg/Kg	☼	81	75 - 125	20	20
Arsenic	3.2	F2	52.8	50.80	F2	mg/Kg	☼	90	75 - 125	26	20
Barium	522	F2	52.8	570.1	4 F2	mg/Kg	☼	91	75 - 125	66	20
Beryllium	0.27	F2	52.8	49.15	F2	mg/Kg	☼	93	75 - 125	24	20
Cadmium	0.93	F2 F1	52.8	51.28	F2	mg/Kg	☼	95	75 - 125	33	20
Calcium	44500	F2 B	2640	48100	4 F2	mg/Kg	☼	135	75 - 125	37	20
Chromium	19.5	F2 F1	52.8	71.85	F2	mg/Kg	☼	99	75 - 125	28	20
Cobalt	4.3	F2	52.8	58.03	F2	mg/Kg	☼	102	75 - 125	28	20
Copper	22.4		52.8	80.21		mg/Kg	☼	109	75 - 125	0	20
Iron	11700	F2	2640	15910	4 F2	mg/Kg	☼	158	75 - 125	39	20
Lead	87.2	F2 F1	52.8	90.87	F1 F2	mg/Kg	☼	7	75 - 125	24	20
Magnesium	15700	F2 B	2640	18320	4 F2	mg/Kg	☼	99	75 - 125	35	20
Manganese	299	F2 B	52.8	398.4	4 F2	mg/Kg	☼	187	75 - 125	38	20
Nickel	23.4	F2 F1	52.8	83.28	F2	mg/Kg	☼	113	75 - 125	39	20
Potassium	1370	F2 F1	2640	6118	F1 F2	mg/Kg	☼	180	75 - 125	37	20
Selenium	ND	F2	52.8	47.53	F2	mg/Kg	☼	90	75 - 125	22	20
Silver	1.1	F2 F1	13.2	11.78	F2	mg/Kg	☼	81	75 - 125	24	20
Sodium	155	J F2	2650	2820	F2	mg/Kg	☼	101	75 - 125	26	20
Thallium	ND	F2	52.8	51.35	F2	mg/Kg	☼	97	75 - 125	25	20
Vanadium	16.6	F2	52.8	74.76	F2	mg/Kg	☼	110	75 - 125	29	20
Zinc	97.9	F2 F1	52.8	163.4	F2	mg/Kg	☼	124	75 - 125	40	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-368567/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 369052 — **Prep Batch: 368567**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.018	0.0075	mg/Kg		07/26/17 16:00	07/26/17 17:37	1

Lab Sample ID: LCSSRM 480-368567/2-A ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 369052 — **Prep Batch: 368567**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.6	11.28		mg/Kg		89.5	44.4 - 128.6

Lab Sample ID: 480-121501-3 MS — **Client Sample ID: TP-11**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 369052 — **Prep Batch: 368567**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.74	F1 F2	0.381	1.84	E F1	mg/Kg	☼	289	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 480-121501-3 MSD
Matrix: Solid
Analysis Batch: 369052

Client Sample ID: TP-11
Prep Type: Total/NA
Prep Batch: 368567

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.74	F1 F2	0.397	1.17	E F2	mg/Kg	☼	110	80 - 120	44	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
W	PS: Post-digestion spike was outside control limits
V	Serial Dilution exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121501-1

GC/MS VOA

Analysis Batch: 368916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	8260C	368925
480-121501-2	TP-12	Total/NA	Solid	8260C	368925
480-121501-6	DUP	Total/NA	Solid	8260C	368925
MB 480-368925/2-A	Method Blank	Total/NA	Solid	8260C	368925
LCS 480-368925/1-A	Lab Control Sample	Total/NA	Solid	8260C	368925

Prep Batch: 368925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	5035A_L	
480-121501-2	TP-12	Total/NA	Solid	5035A_L	
480-121501-6	DUP	Total/NA	Solid	5035A_L	
MB 480-368925/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-368925/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 368964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-3	TP-11	Total/NA	Solid	8260C	369004
480-121501-4	TP-16	Total/NA	Solid	8260C	369004
480-121501-5	TP-17	Total/NA	Solid	8260C	369004
MB 480-369004/2-A	Method Blank	Total/NA	Solid	8260C	369004
LCS 480-369004/1-A	Lab Control Sample	Total/NA	Solid	8260C	369004
480-121501-3 MS	TP-11	Total/NA	Solid	8260C	369004
480-121501-3 MSD	TP-11	Total/NA	Solid	8260C	369004

Prep Batch: 369004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-3	TP-11	Total/NA	Solid	5035A_L	
480-121501-4	TP-16	Total/NA	Solid	5035A_L	
480-121501-5	TP-17	Total/NA	Solid	5035A_L	
MB 480-369004/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-369004/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-121501-3 MS	TP-11	Total/NA	Solid	5035A_L	
480-121501-3 MSD	TP-11	Total/NA	Solid	5035A_L	

GC/MS Semi VOA

Prep Batch: 368504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	3550C	
480-121501-2	TP-12	Total/NA	Solid	3550C	
480-121501-3	TP-11	Total/NA	Solid	3550C	
480-121501-4	TP-16	Total/NA	Solid	3550C	
480-121501-5	TP-17	Total/NA	Solid	3550C	
480-121501-6	DUP	Total/NA	Solid	3550C	
MB 480-368504/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-368504/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-121501-3 MS	TP-11	Total/NA	Solid	3550C	
480-121501-3 MSD	TP-11	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Analysis Batch: 369868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	8270D	368504
480-121501-2	TP-12	Total/NA	Solid	8270D	368504
480-121501-3	TP-11	Total/NA	Solid	8270D	368504
480-121501-4	TP-16	Total/NA	Solid	8270D	368504
480-121501-5	TP-17	Total/NA	Solid	8270D	368504
480-121501-6	DUP	Total/NA	Solid	8270D	368504
MB 480-368504/1-A	Method Blank	Total/NA	Solid	8270D	368504
LCS 480-368504/2-A	Lab Control Sample	Total/NA	Solid	8270D	368504
480-121501-3 MS	TP-11	Total/NA	Solid	8270D	368504
480-121501-3 MSD	TP-11	Total/NA	Solid	8270D	368504

GC Semi VOA

Prep Batch: 368494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	3550C	
480-121501-2	TP-12	Total/NA	Solid	3550C	
480-121501-3	TP-11	Total/NA	Solid	3550C	
480-121501-4	TP-16	Total/NA	Solid	3550C	
480-121501-5	TP-17	Total/NA	Solid	3550C	
480-121501-6	DUP	Total/NA	Solid	3550C	
MB 480-368494/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-368494/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-121501-3 MS	TP-11	Total/NA	Solid	3550C	
480-121501-3 MSD	TP-11	Total/NA	Solid	3550C	

Prep Batch: 368612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	3550C	
480-121501-2	TP-12	Total/NA	Solid	3550C	
480-121501-3	TP-11	Total/NA	Solid	3550C	
480-121501-4	TP-16	Total/NA	Solid	3550C	
480-121501-5	TP-17	Total/NA	Solid	3550C	
480-121501-6	DUP	Total/NA	Solid	3550C	
MB 480-368612/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-368612/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-121501-3 MS	TP-11	Total/NA	Solid	3550C	
480-121501-3 MSD	TP-11	Total/NA	Solid	3550C	

Analysis Batch: 368774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	8081B	368494
480-121501-2	TP-12	Total/NA	Solid	8081B	368494
480-121501-3	TP-11	Total/NA	Solid	8081B	368494
480-121501-4	TP-16	Total/NA	Solid	8081B	368494
480-121501-5	TP-17	Total/NA	Solid	8081B	368494
480-121501-6	DUP	Total/NA	Solid	8081B	368494
MB 480-368494/1-A	Method Blank	Total/NA	Solid	8081B	368494
LCS 480-368494/2-A	Lab Control Sample	Total/NA	Solid	8081B	368494
480-121501-3 MS	TP-11	Total/NA	Solid	8081B	368494

GC Semi VOA (Continued)

Analysis Batch: 368774 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-3 MSD	TP-11	Total/NA	Solid	8081B	368494

Analysis Batch: 368775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	8082A	368612
480-121501-2	TP-12	Total/NA	Solid	8082A	368612
480-121501-3	TP-11	Total/NA	Solid	8082A	368612
480-121501-4	TP-16	Total/NA	Solid	8082A	368612
480-121501-5	TP-17	Total/NA	Solid	8082A	368612
480-121501-6	DUP	Total/NA	Solid	8082A	368612
MB 480-368612/1-A	Method Blank	Total/NA	Solid	8082A	368612
LCS 480-368612/2-A	Lab Control Sample	Total/NA	Solid	8082A	368612
480-121501-3 MS	TP-11	Total/NA	Solid	8082A	368612
480-121501-3 MSD	TP-11	Total/NA	Solid	8082A	368612

Metals

Prep Batch: 368566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	3050B	
480-121501-2	TP-12	Total/NA	Solid	3050B	
480-121501-3	TP-11	Total/NA	Solid	3050B	
480-121501-4	TP-16	Total/NA	Solid	3050B	
480-121501-5	TP-17	Total/NA	Solid	3050B	
480-121501-6	DUP	Total/NA	Solid	3050B	
MB 480-368566/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-368566/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-121501-3 MS	TP-11	Total/NA	Solid	3050B	
480-121501-3 MSD	TP-11	Total/NA	Solid	3050B	

Prep Batch: 368567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	7471B	
480-121501-2	TP-12	Total/NA	Solid	7471B	
480-121501-3	TP-11	Total/NA	Solid	7471B	
480-121501-4	TP-16	Total/NA	Solid	7471B	
480-121501-5	TP-17	Total/NA	Solid	7471B	
480-121501-6	DUP	Total/NA	Solid	7471B	
MB 480-368567/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 480-368567/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-121501-3 MS	TP-11	Total/NA	Solid	7471B	
480-121501-3 MSD	TP-11	Total/NA	Solid	7471B	

Analysis Batch: 368994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	6010C	368566
480-121501-2	TP-12	Total/NA	Solid	6010C	368566
480-121501-3	TP-11	Total/NA	Solid	6010C	368566
480-121501-4	TP-16	Total/NA	Solid	6010C	368566
480-121501-5	TP-17	Total/NA	Solid	6010C	368566

Metals (Continued)

Analysis Batch: 368994 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-368566/1-A	Method Blank	Total/NA	Solid	6010C	368566
LCSSRM 480-368566/2-A	Lab Control Sample	Total/NA	Solid	6010C	368566
480-121501-3 MS	TP-11	Total/NA	Solid	6010C	368566
480-121501-3 MSD	TP-11	Total/NA	Solid	6010C	368566

Analysis Batch: 369047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-6	DUP	Total/NA	Solid	6010C	368566

Analysis Batch: 369052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	7471B	368567
480-121501-2	TP-12	Total/NA	Solid	7471B	368567
480-121501-3	TP-11	Total/NA	Solid	7471B	368567
480-121501-4	TP-16	Total/NA	Solid	7471B	368567
480-121501-5	TP-17	Total/NA	Solid	7471B	368567
480-121501-6	DUP	Total/NA	Solid	7471B	368567
MB 480-368567/1-A	Method Blank	Total/NA	Solid	7471B	368567
LCSSRM 480-368567/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	368567
480-121501-3 MS	TP-11	Total/NA	Solid	7471B	368567
480-121501-3 MSD	TP-11	Total/NA	Solid	7471B	368567

General Chemistry

Analysis Batch: 368209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-121501-1	TP-13	Total/NA	Solid	Moisture	
480-121501-2	TP-12	Total/NA	Solid	Moisture	
480-121501-3	TP-11	Total/NA	Solid	Moisture	
480-121501-4	TP-16	Total/NA	Solid	Moisture	
480-121501-5	TP-17	Total/NA	Solid	Moisture	
480-121501-6	DUP	Total/NA	Solid	Moisture	
480-121501-3 MS	TP-11	Total/NA	Solid	Moisture	
480-121501-3 MSD	TP-11	Total/NA	Solid	Moisture	

Client Sample ID: TP-13
Date Collected: 07/21/17 09:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	368209	07/22/17 07:24	CSW	TAL BUF

Client Sample ID: TP-13
Date Collected: 07/21/17 09:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-1
Matrix: Solid
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368925	07/26/17 21:23	SWO	TAL BUF
Total/NA	Analysis	8260C		1	368916	07/27/17 02:45	AMM	TAL BUF
Total/NA	Prep	3550C			368504	07/25/17 07:50	BEK	TAL BUF
Total/NA	Analysis	8270D		1	369868	08/01/17 22:47	PJQ	TAL BUF
Total/NA	Prep	3550C			368494	07/25/17 07:30	NMC	TAL BUF
Total/NA	Analysis	8081B		1	368774	07/26/17 15:34	MAN	TAL BUF
Total/NA	Prep	3550C			368612	07/25/17 14:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	368775	07/26/17 16:48	JMO	TAL BUF
Total/NA	Prep	3050B			368566	07/25/17 15:15	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368994	07/26/17 19:41	LMH	TAL BUF
Total/NA	Prep	7471B			368567	07/26/17 16:00	BMB	TAL BUF
Total/NA	Analysis	7471B		1	369052	07/26/17 17:48	BMB	TAL BUF

Client Sample ID: TP-12
Date Collected: 07/21/17 10:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	368209	07/22/17 07:24	CSW	TAL BUF

Client Sample ID: TP-12
Date Collected: 07/21/17 10:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-2
Matrix: Solid
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368925	07/26/17 21:23	SWO	TAL BUF
Total/NA	Analysis	8260C		1	368916	07/27/17 03:10	AMM	TAL BUF
Total/NA	Prep	3550C			368504	07/25/17 07:50	BEK	TAL BUF
Total/NA	Analysis	8270D		5	369868	08/01/17 23:13	PJQ	TAL BUF
Total/NA	Prep	3550C			368494	07/25/17 07:30	NMC	TAL BUF
Total/NA	Analysis	8081B		1	368774	07/26/17 15:53	MAN	TAL BUF
Total/NA	Prep	3550C			368612	07/25/17 14:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	368775	07/26/17 17:04	JMO	TAL BUF
Total/NA	Prep	3050B			368566	07/25/17 15:15	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368994	07/26/17 19:44	LMH	TAL BUF
Total/NA	Prep	7471B			368567	07/26/17 16:00	BMB	TAL BUF

Client Sample ID: TP-12
Date Collected: 07/21/17 10:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-2
Matrix: Solid
Percent Solids: 76.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	369052	07/26/17 17:50	BMB	TAL BUF

Client Sample ID: TP-11
Date Collected: 07/21/17 11:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	368209	07/22/17 07:24	CSW	TAL BUF

Client Sample ID: TP-11
Date Collected: 07/21/17 11:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-3
Matrix: Solid
Percent Solids: 81.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			369004	07/27/17 09:57	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368964	07/27/17 13:17	SWO	TAL BUF
Total/NA	Prep	3550C			368504	07/25/17 07:50	BEK	TAL BUF
Total/NA	Analysis	8270D		10	369868	08/01/17 23:40	PJQ	TAL BUF
Total/NA	Prep	3550C			368494	07/25/17 07:30	NMC	TAL BUF
Total/NA	Analysis	8081B		5	368774	07/26/17 15:14	MAN	TAL BUF
Total/NA	Prep	3550C			368612	07/25/17 14:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	368775	07/26/17 14:39	JMO	TAL BUF
Total/NA	Prep	3050B			368566	07/25/17 15:15	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368994	07/26/17 19:48	LMH	TAL BUF
Total/NA	Prep	7471B			368567	07/26/17 16:00	BMB	TAL BUF
Total/NA	Analysis	7471B		1	369052	07/26/17 17:51	BMB	TAL BUF

Client Sample ID: TP-16
Date Collected: 07/21/17 14:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	368209	07/22/17 07:24	CSW	TAL BUF

Client Sample ID: TP-16
Date Collected: 07/21/17 14:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-4
Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			369004	07/27/17 09:57	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368964	07/27/17 12:26	SWO	TAL BUF
Total/NA	Prep	3550C			368504	07/25/17 07:50	BEK	TAL BUF
Total/NA	Analysis	8270D		1	369868	08/02/17 00:06	PJQ	TAL BUF

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			368494	07/25/17 07:30	NMC	TAL BUF
Total/NA	Analysis	8081B		1	368774	07/26/17 16:13	MAN	TAL BUF
Total/NA	Prep	3550C			368612	07/25/17 14:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	368775	07/26/17 17:20	JMO	TAL BUF
Total/NA	Prep	3050B			368566	07/25/17 15:15	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368994	07/26/17 20:05	LMH	TAL BUF
Total/NA	Prep	7471B			368567	07/26/17 16:00	BMB	TAL BUF
Total/NA	Analysis	7471B		1	369052	07/26/17 18:00	BMB	TAL BUF

Client Sample ID: TP-17 — Lab Sample ID: 480-121501-5

Date Collected: 07/21/17 13:00 — **Matrix: Solid**
Date Received: 07/21/17 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	368209	07/22/17 07:24	CSW	TAL BUF

Client Sample ID: TP-17 — Lab Sample ID: 480-121501-5

Date Collected: 07/21/17 13:00 — **Matrix: Solid**
Date Received: 07/21/17 16:30 — **Percent Solids: 82.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			369004	07/27/17 09:57	AMM	TAL BUF
Total/NA	Analysis	8260C		1	368964	07/27/17 12:51	SWO	TAL BUF
Total/NA	Prep	3550C			368504	07/25/17 07:50	BEK	TAL BUF
Total/NA	Analysis	8270D		1	369868	08/02/17 00:32	PJQ	TAL BUF
Total/NA	Prep	3550C			368494	07/25/17 07:30	NMC	TAL BUF
Total/NA	Analysis	8081B		1	368774	07/26/17 16:32	MAN	TAL BUF
Total/NA	Prep	3550C			368612	07/25/17 14:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	368775	07/26/17 17:36	JMO	TAL BUF
Total/NA	Prep	3050B			368566	07/25/17 15:15	EMB	TAL BUF
Total/NA	Analysis	6010C		1	368994	07/26/17 20:08	LMH	TAL BUF
Total/NA	Prep	7471B			368567	07/26/17 16:00	BMB	TAL BUF
Total/NA	Analysis	7471B		1	369052	07/26/17 18:02	BMB	TAL BUF

Client Sample ID: DUP — Lab Sample ID: 480-121501-6

Date Collected: 07/21/17 00:00 — **Matrix: Solid**
Date Received: 07/21/17 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	368209	07/22/17 07:24	CSW	TAL BUF

Client Sample ID: DUP — Lab Sample ID: 480-121501-6

Date Collected: 07/21/17 00:00 — **Matrix: Solid**
Date Received: 07/21/17 16:30 — **Percent Solids: 83.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			368925	07/26/17 21:23	SWO	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-121501-1

Client Sample ID: DUP
Date Collected: 07/21/17 00:00
Date Received: 07/21/17 16:30

Lab Sample ID: 480-121501-6
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	368916	07/27/17 04:53	AMM	TAL BUF
Total/NA	Prep	3550C			368504	07/25/17 07:50	BEK	TAL BUF
Total/NA	Analysis	8270D		1	369868	08/02/17 00:58	PJQ	TAL BUF
Total/NA	Prep	3550C			368494	07/25/17 07:30	NMC	TAL BUF
Total/NA	Analysis	8081B		1	368774	07/26/17 16:52	MAN	TAL BUF
Total/NA	Prep	3550C			368612	07/25/17 14:16	SMP	TAL BUF
Total/NA	Analysis	8082A		1	368775	07/26/17 17:52	JMO	TAL BUF
Total/NA	Prep	3050B			368566	07/25/17 15:15	EMB	TAL BUF
Total/NA	Analysis	6010C		1	369047	07/27/17 10:43	LMH	TAL BUF
Total/NA	Prep	7471B			368567	07/26/17 16:00	BMB	TAL BUF
Total/NA	Analysis	7471B		1	369052	07/26/17 18:03	BMB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C. TestAmerica Job ID: 480-121501-1
Project/Site: Nash Rd. Wheatfield #932054

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
TP-13	480-121501-1	91	92	95
TP-12	480-121501-2	93	95	91
TP-11	480-121501-3	91	92	96
TP-16	480-121501-4	87	91	97
TP-17	480-121501-5	90	93	97
DUP	480-121501-6	91	93	91
	MB 480-368925/2-A	94	92	94
	MB 480-369004/2-A	91	91	99
	LCS 480-368925/1-A	96	95	102
	LCS 480-369004/1-A	91	95	104
TP-11 MS	480-121501-3 MS	77	94	99
TP-11 MSD	480-121501-3 MSD	75	94	99

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6521.D

Lab ID: LCS 480-368925/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	50.6	101	77-121	
1,1,2,2-Tetrachloroethane	50.0	52.7	105	80-120	
1,1,2-Trichloroethane	50.0	48.7	97	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.3	99	60-140	
1,1-Dichloroethane	50.0	49.4	99	73-126	
1,1-Dichloroethene	50.0	50.0	100	59-125	
1,2,4-Trichlorobenzene	50.0	45.6	91	64-120	
1,2-Dibromo-3-Chloropropane	50.0	54.2	108	63-124	
1,2-Dibromoethane	50.0	48.7	97	78-120	
1,2-Dichlorobenzene	50.0	48.4	97	75-120	
1,2-Dichloroethane	50.0	49.4	99	77-122	
1,2-Dichloropropane	50.0	48.5	97	75-124	
1,3-Dichlorobenzene	50.0	48.9	98	74-120	
1,4-Dichlorobenzene	50.0	48.6	97	73-120	
2-Hexanone	250	266	106	59-130	
2-Butanone (MEK)	250	268	107	70-134	
4-Methyl-2-pentanone (MIBK)	250	252	101	65-133	
Acetone	250	252	101	61-137	
Benzene	50.0	49.2	98	79-127	
Bromodichloromethane	50.0	53.4	107	80-122	
Bromoform	50.0	46.6	93	68-126	
Bromomethane	50.0	101	202	37-149	*
Carbon disulfide	50.0	44.1	88	64-131	
Carbon tetrachloride	50.0	55.2	110	75-135	
Chlorobenzene	50.0	46.9	94	76-124	
Dibromochloromethane	50.0	47.5	95	76-125	
Chloroethane	50.0	89.1	178	69-135	*
Chloroform	50.0	49.6	99	80-120	
Chloromethane	50.0	53.3	107	63-127	
cis-1,2-Dichloroethene	50.0	49.7	99	81-120	
cis-1,3-Dichloropropene	50.0	50.5	101	80-120	
Cyclohexane	50.0	48.2	96	65-120	
Dichlorodifluoromethane	50.0	54.2	108	57-142	
Ethylbenzene	50.0	48.9	98	80-120	
Isopropylbenzene	50.0	48.9	98	72-120	
Methyl acetate	250	253	101	55-136	
Methyl tert-butyl ether	50.0	49.4	99	63-125	
Methylcyclohexane	50.0	47.3	95	60-140	
Methylene Chloride	50.0	50.8	102	61-127	
Styrene	50.0	47.3	95	80-120	
Tetrachloroethene	50.0	46.0	92	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6521.D

Lab ID: LCS 480-368925/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	47.0	94	74-128	
trans-1,2-Dichloroethene	50.0	49.0	98	78-126	
trans-1,3-Dichloropropene	50.0	50.9	102	73-123	
Trichloroethene	50.0	48.3	97	77-129	
Trichlorofluoromethane	50.0	58.5	117	65-146	
Vinyl chloride	50.0	54.4	109	61-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6545.D

Lab ID: LCS 480-369004/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	44.2	88	77-121	
1,1,2,2-Tetrachloroethane	50.0	51.3	103	80-120	
1,1,2-Trichloroethane	50.0	48.2	96	78-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	38.1	76	60-140	
1,1-Dichloroethane	50.0	46.8	94	73-126	
1,1-Dichloroethene	50.0	42.4	85	59-125	
1,2,4-Trichlorobenzene	50.0	44.0	88	64-120	
1,2-Dibromo-3-Chloropropane	50.0	49.9	100	63-124	
1,2-Dibromoethane	50.0	48.8	98	78-120	
1,2-Dichlorobenzene	50.0	46.9	94	75-120	
1,2-Dichloroethane	50.0	48.3	97	77-122	
1,2-Dichloropropane	50.0	47.1	94	75-124	
1,3-Dichlorobenzene	50.0	46.9	94	74-120	
1,4-Dichlorobenzene	50.0	47.3	95	73-120	
2-Hexanone	250	252	101	59-130	
2-Butanone (MEK)	250	258	103	70-134	
4-Methyl-2-pentanone (MIBK)	250	248	99	65-133	
Acetone	250	260	104	61-137	
Benzene	50.0	45.8	92	79-127	
Bromodichloromethane	50.0	52.2	104	80-122	
Bromoform	50.0	44.2	88	68-126	
Bromomethane	50.0	70.0	140	37-149	
Carbon disulfide	50.0	37.7	75	64-131	
Carbon tetrachloride	50.0	46.2	92	75-135	
Chlorobenzene	50.0	45.8	92	76-124	
Dibromochloromethane	50.0	47.4	95	76-125	
Chloroethane	50.0	69.3	139	69-135	*
Chloroform	50.0	47.7	95	80-120	
Chloromethane	50.0	46.6	93	63-127	
cis-1,2-Dichloroethene	50.0	47.9	96	81-120	
cis-1,3-Dichloropropene	50.0	48.1	96	80-120	
Cyclohexane	50.0	38.4	77	65-120	
Dichlorodifluoromethane	50.0	35.1	70	57-142	
Ethylbenzene	50.0	46.1	92	80-120	
Isopropylbenzene	50.0	45.0	90	72-120	
Methyl acetate	250	262	105	55-136	
Methyl tert-butyl ether	50.0	48.7	97	63-125	
Methylcyclohexane	50.0	36.9	74	60-140	
Methylene Chloride	50.0	50.6	101	61-127	
Styrene	50.0	46.0	92	80-120	
Tetrachloroethene	50.0	41.0	82	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6545.D

Lab ID: LCS 480-369004/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Toluene	50.0	45.2	90	74-128	
trans-1,2-Dichloroethene	50.0	45.3	91	78-126	
trans-1,3-Dichloropropene	50.0	50.7	101	73-123	
Trichloroethene	50.0	43.8	88	77-129	
Trichlorofluoromethane	50.0	42.8	86	65-146	
Vinyl chloride	50.0	44.3	89	61-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6562.D

Lab ID: 480-121501-3 MS Client ID: TP-11 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	61.4	ND	52.6	86	77-121	vs
1,1,2,2-Tetrachloroethane	61.4	ND	48.6	79	80-120	F1 vs
1,1,2-Trichloroethane	61.4	ND	49.7	81	78-122	vs
1,1,2-Trichloro-1,2,2-trifluoroethane	61.4	ND	49.1	80	60-140	vs
1,1-Dichloroethane	61.4	ND	56.1	91	73-126	vs
1,1-Dichloroethene	61.4	ND	52.6	86	59-125	vs
1,2,4-Trichlorobenzene	61.4	ND	33.6	55	64-120	F1 vs
1,2-Dibromo-3-Chloropropane	61.4	ND	36.9	60	63-124	F1 vs
1,2-Dibromoethane	61.4	ND	45.4	74	78-120	F1 vs
1,2-Dichlorobenzene	61.4	ND	47.4	77	75-120	vs
1,2-Dichloroethane	61.4	ND	50.1	82	77-122	vs
1,2-Dichloropropane	61.4	ND	52.8	86	75-124	vs
1,3-Dichlorobenzene	61.4	ND	48.8	80	74-120	vs
1,4-Dichlorobenzene	61.4	ND	48.2	79	73-120	vs
2-Hexanone	307	ND	205	67	59-130	vs
2-Butanone (MEK)	307	ND	188	61	70-134	F1 vs
4-Methyl-2-pentanone (MIBK)	307	ND	211	69	65-133	vs
Acetone	307	ND	189	62	61-137	vs
Benzene	61.4	ND	54.4	89	79-127	vs
Bromodichloromethane	61.4	ND	56.2	92	80-122	vs
Bromoform	61.4	ND	37.7	61	68-126	F1 vs
Bromomethane	61.4	ND	102	166	37-149	F1 vs
Carbon disulfide	61.4	ND	41.3	67	64-131	vs
Carbon tetrachloride	61.4	ND	54.1	88	75-135	vs
Chlorobenzene	61.4	ND	49.9	81	76-124	vs
Dibromochloromethane	61.4	ND	46.0	75	76-125	F1 vs
Chloroethane	61.4	ND	97.9	160	69-135	F1 vs
Chloroform	61.4	ND	55.8	91	80-120	vs
Chloromethane	61.4	ND	57.8	94	63-127	vs
cis-1,2-Dichloroethene	61.4	ND	53.6	87	80-120	vs
cis-1,3-Dichloropropene	61.4	ND	47.5	77	80-120	F1 vs
Cyclohexane	61.4	ND	46.4	76	65-120	vs
Dichlorodifluoromethane	61.4	ND	49.2	80	57-142	vs
Ethylbenzene	61.4	ND	52.8	86	80-120	vs
Isopropylbenzene	61.4	ND	54.0	88	72-120	vs
Methyl acetate	307	ND	197	64	55-136	vs
Methyl tert-butyl ether	61.4	ND	48.0	78	63-125	vs
Methylcyclohexane	61.4	ND	42.1	69	60-140	vs
Methylene Chloride	61.4	ND	59.4	97	61-127	vs
Styrene	61.4	ND	48.2	79	80-120	F1 vs
Tetrachloroethene	61.4	ND	45.9	75	74-122	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6562.D

Lab ID: 480-121501-3 MS Client ID: TP-11 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Toluene	61.4	ND	52.5	86	74-128	vs
trans-1,2-Dichloroethene	61.4	ND	52.4	85	78-126	vs
trans-1,3-Dichloropropene	61.4	ND	48.2	79	73-123	vs
Trichloroethene	61.4	ND	50.1	82	77-129	vs
Trichlorofluoromethane	61.4	ND	61.3	100	65-146	vs
Vinyl chloride	61.4	ND	57.8	94	61-133	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6563.D

Lab ID: 480-121501-3 MSD Client ID: TP-11 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	61.4	53.9	88	2	30	77-121	vs
1,1,2,2-Tetrachloroethane	61.4	50.1	82	3	30	80-120	vs
1,1,2-Trichloroethane	61.4	49.8	81	0	30	78-122	vs
1,1,2-Trichloro-1,2,2-trifluoroethane	61.4	49.1	80	0	30	60-140	vs
1,1-Dichloroethane	61.4	57.7	94	3	30	73-126	vs
1,1-Dichloroethene	61.4	52.7	86	0	30	59-125	vs
1,2,4-Trichlorobenzene	61.4	32.2	52	4	30	64-120	F1 vs
1,2-Dibromo-3-Chloropropane	61.4	37.8	62	2	30	63-124	F1 vs
1,2-Dibromoethane	61.4	45.4	74	0	30	78-120	F1 vs
1,2-Dichlorobenzene	61.4	47.4	77	0	30	75-120	vs
1,2-Dichloroethane	61.4	51.5	84	3	30	77-122	vs
1,2-Dichloropropane	61.4	55.0	90	4	30	75-124	vs
1,3-Dichlorobenzene	61.4	48.6	79	0	30	74-120	vs
1,4-Dichlorobenzene	61.4	48.4	79	0	30	73-120	vs
2-Hexanone	307	197	64	4	30	59-130	vs
2-Butanone (MEK)	307	186	61	1	30	70-134	F1 vs
4-Methyl-2-pentanone (MIBK)	307	209	68	1	30	65-133	vs
Acetone	307	187	61	1	30	61-137	vs
Benzene	61.4	55.9	91	3	30	79-127	vs
Bromodichloromethane	61.4	57.6	94	2	30	80-122	vs
Bromoform	61.4	38.4	63	2	30	68-126	F1 vs
Bromomethane	61.4	104	170	2	30	37-149	F1 vs
Carbon disulfide	61.4	40.3	66	3	30	64-131	vs
Carbon tetrachloride	61.4	55.3	90	2	30	75-135	vs
Chlorobenzene	61.4	49.8	81	0	30	76-124	vs
Dibromochloromethane	61.4	47.1	77	2	30	76-125	vs
Chloroethane	61.4	97.9	159	0	30	69-135	F1 vs
Chloroform	61.4	56.7	92	2	30	80-120	vs
Chloromethane	61.4	60.1	98	4	30	63-127	vs
cis-1,2-Dichloroethene	61.4	55.2	90	3	30	80-120	vs
cis-1,3-Dichloropropene	61.4	48.3	79	2	30	80-120	F1 vs
Cyclohexane	61.4	45.0	73	3	30	65-120	vs
Dichlorodifluoromethane	61.4	49.2	80	0	30	57-142	vs
Ethylbenzene	61.4	52.5	86	0	30	80-120	vs
Isopropylbenzene	61.4	55.1	90	2	30	72-120	vs
Methyl acetate	307	199	65	1	30	55-136	vs
Methyl tert-butyl ether	61.4	50.1	82	4	30	63-125	vs
Methylcyclohexane	61.4	40.0	65	5	30	60-140	vs
Methylene Chloride	61.4	60.5	99	2	30	61-127	vs
Styrene	61.4	48.2	79	0	30	80-120	F1 vs
Tetrachloroethene	61.4	46.0	75	0	30	74-122	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F6563.D

Lab ID: 480-121501-3 MSD Client ID: TP-11 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	61.4	53.3	87	2	30	74-128	vs
trans-1,2-Dichloroethene	61.4	54.5	89	4	30	78-126	vs
trans-1,3-Dichloropropene	61.4	48.3	79	0	30	73-123	vs
Trichloroethene	61.4	50.4	82	1	30	77-129	vs
Trichlorofluoromethane	61.4	61.2	100	0	30	65-146	vs
Vinyl chloride	61.4	59.1	96	2	30	61-133	vs

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab File ID: F6523.D Lab Sample ID: MB 480-368925/2-A

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: HP5973F Date Analyzed: 07/26/2017 23:00

GC Column: ZB-624 (30) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-368925/1-A	F6521.D	07/26/2017 22:09
TP-13	480-121501-1	F6531.D	07/27/2017 02:45
TP-12	480-121501-2	F6532.D	07/27/2017 03:10
DUP	480-121501-6	F6536.D	07/27/2017 04:53

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab File ID: F6547.D Lab Sample ID: MB 480-369004/2-A

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: HP5973F Date Analyzed: 07/27/2017 11:47

GC Column: ZB-624 (30) ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-369004/1-A	F6545.D	07/27/2017 10:55
TP-16	480-121501-4	F6548.D	07/27/2017 12:26
TP-17	480-121501-5	F6549.D	07/27/2017 12:51
TP-11	480-121501-3	F6550.D	07/27/2017 13:17
TP-11 MS	480-121501-3 MS	F6562.D	07/27/2017 18:21
TP-11 MSD	480-121501-3 MSD	F6563.D	07/27/2017 18:47

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab File ID: F6324.D BFB Injection Date: 07/20/2017

Instrument ID: HP5973F BFB Injection Time: 10:51

Analysis Batch No.: 367895

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.4	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	82.9	
175	5.0 - 9.0 % of mass 174	7.1	(8.6) 1
176	95.0 - 101.0 % of mass 174	79.6	(96.0) 1
177	5.0 - 9.0 % of mass 176	5.7	(7.2) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-367895/4	F6326.D	07/20/2017	11:43
	IC 480-367895/5	F6327.D	07/20/2017	12:09
	IC 480-367895/6	F6328.D	07/20/2017	12:34
	IC 480-367895/7	F6329.D	07/20/2017	13:00
	ICIS 480-367895/8	F6330.D	07/20/2017	13:25
	IC 480-367895/9	F6331.D	07/20/2017	13:50
	IC 480-367895/10	F6332.D	07/20/2017	14:16

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab File ID: F6518.D BFB Injection Date: 07/26/2017

Instrument ID: HP5973F BFB Injection Time: 20:51

Analysis Batch No.: 368916

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.3	
75	30.0 - 60.0 % of mass 95	54.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	50.0 - 120.00 % of mass 95	80.7	
175	5.0 - 9.0 % of mass 174	6.2	(7.6) 1
176	95.0 - 101.0 % of mass 174	77.6	(96.1) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-368916/3	F6519.D	07/26/2017	21:18
	LCS 480-368925/1-A	F6521.D	07/26/2017	22:09
	MB 480-368925/2-A	F6523.D	07/26/2017	23:00
TP-13	480-121501-1	F6531.D	07/27/2017	02:45
TP-12	480-121501-2	F6532.D	07/27/2017	03:10
DUP	480-121501-6	F6536.D	07/27/2017	04:53

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab File ID: F6542.D BFB Injection Date: 07/27/2017

Instrument ID: HP5973F BFB Injection Time: 09:12

Analysis Batch No.: 368964

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.2
75	30.0 - 60.0 % of mass 95	55.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	8.0
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	80.9
175	5.0 - 9.0 % of mass 174	5.7 (7.0) 1
176	95.0 - 101.0 % of mass 174	81.1 (100.3) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-368964/3	F6543.D	07/27/2017	09:37
	LCS 480-369004/1-A	F6545.D	07/27/2017	10:55
	MB 480-369004/2-A	F6547.D	07/27/2017	11:47
TP-16	480-121501-4	F6548.D	07/27/2017	12:26
TP-17	480-121501-5	F6549.D	07/27/2017	12:51
TP-11	480-121501-3	F6550.D	07/27/2017	13:17
TP-11 MS	480-121501-3 MS	F6562.D	07/27/2017	18:21
TP-11 MSD	480-121501-3 MSD	F6563.D	07/27/2017	18:47

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: ICIS 480-367895/8 Date Analyzed: 07/20/2017 13:25

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm)

Lab File ID (Standard): F6330.D Heated Purge: (Y/N) Y

Calibration ID: 30918

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		249699	5.22	513779	8.01	521772	10.38
UPPER LIMIT		499398	5.72	1027558	8.51	1043544	10.88
LOWER LIMIT		124850	4.72	256890	7.51	260886	9.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368916/3		219964	5.22	463650	8.01	456933	10.38
CCVIS 480-368964/3		220045	5.22	451641	8.01	475361	10.38

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: CCVIS 480-368916/3 Date Analyzed: 07/26/2017 21:18

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm)

Lab File ID (Standard): F6519.D Heated Purge: (Y/N) Y

Calibration ID: 30915

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		219964	5.22	463650	8.01	456933	10.38
UPPER LIMIT		439928	5.72	927300	8.51	913866	10.88
LOWER LIMIT		109982	4.72	231825	7.51	228467	9.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-368925/1-A		223897	5.22	470790	8.01	463166	10.38
MB 480-368925/2-A		208501	5.22	442773	8.01	415179	10.38
480-121501-1	TP-13	204343	5.22	437268	8.01	408491	10.38
480-121501-2	TP-12	199025	5.22	399920	8.01	337659	10.38
480-121501-6	DUP	187035	5.22	390117	8.01	344939	10.38

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: CCVIS 480-368964/3 Date Analyzed: 07/27/2017 09:37

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm)

Lab File ID (Standard): F6543.D Heated Purge: (Y/N) Y

Calibration ID: 30915

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		220045	5.22	451641	8.01	475361	10.38
UPPER LIMIT		440090	5.72	903282	8.51	950722	10.88
LOWER LIMIT		110023	4.72	225821	7.51	237681	9.88
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-369004/1-A		225492	5.22	458664	8.01	455103	10.38
MB 480-369004/2-A		204078	5.22	427734	8.01	400817	10.38
480-121501-4	TP-16	209388	5.22	432917	8.01	396389	10.38
480-121501-5	TP-17	202426	5.21	419200	8.01	380259	10.38
480-121501-3	TP-11	199801	5.22	412862	8.01	355107	10.38
480-121501-3 MS	TP-11 MS	199303	5.22	397303	8.01	365890	10.38
480-121501-3 MSD	TP-11 MSD	204789	5.22	411777	8.01	365406	10.38

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-13 | Lab Sample ID: 480-121501-1

Matrix: Solid | Lab File ID: F6531.D

Analysis Method: 8260C | Date Collected: 07/21/2017 09:00

Sample wt/vol: 5.09(g) | Date Analyzed: 07/27/2017 02:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.2 | Level: (low/med) Low

Analysis Batch No.: 368916 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	5.9	0.43
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96
79-00-5	1,1,2-Trichloroethane	ND	vs	5.9	0.77
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.4
75-34-3	1,1-Dichloroethane	ND	vs	5.9	0.72
75-35-4	1,1-Dichloroethene	ND	vs	5.9	0.73
120-82-1	1,2,4-Trichlorobenzene	ND	vs	5.9	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	5.9	3.0
106-93-4	1,2-Dibromoethane	ND	vs	5.9	0.76
95-50-1	1,2-Dichlorobenzene	ND	vs	5.9	0.46
107-06-2	1,2-Dichloroethane	ND	vs	5.9	0.30
78-87-5	1,2-Dichloropropane	ND	vs	5.9	3.0
541-73-1	1,3-Dichlorobenzene	ND	vs	5.9	0.30
106-46-7	1,4-Dichlorobenzene	ND	vs	5.9	0.83
591-78-6	2-Hexanone	ND	vs	30	3.0
78-93-3	2-Butanone (MEK)	ND	vs	30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	30	1.9
67-64-1	Acetone	ND	vs	30	5.0
71-43-2	Benzene	ND	vs	5.9	0.29
75-27-4	Bromodichloromethane	ND	vs	5.9	0.79
75-25-2	Bromoform	ND	vs	5.9	3.0
74-83-9	Bromomethane	ND	* vs	5.9	0.53
75-15-0	Carbon disulfide	ND	vs	5.9	3.0
56-23-5	Carbon tetrachloride	ND	vs	5.9	0.57
108-90-7	Chlorobenzene	ND	vs	5.9	0.78
124-48-1	Dibromochloromethane	ND	vs	5.9	0.76
75-00-3	Chloroethane	ND	* vs	5.9	1.3
67-66-3	Chloroform	ND	vs	5.9	0.37
74-87-3	Chloromethane	ND	vs	5.9	0.36
156-59-2	cis-1,2-Dichloroethene	ND	vs	5.9	0.76
10061-01-5	cis-1,3-Dichloropropene	ND	vs	5.9	0.85
110-82-7	Cyclohexane	ND	vs	5.9	0.83
75-71-8	Dichlorodifluoromethane	ND	vs	5.9	0.49
100-41-4	Ethylbenzene	ND	vs	5.9	0.41
98-82-8	Isopropylbenzene	ND	vs	5.9	0.89

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-13 | Lab Sample ID: 480-121501-1

Matrix: Solid | Lab File ID: F6531.D

Analysis Method: 8260C | Date Collected: 07/21/2017 09:00

Sample wt/vol: 5.09(g) | Date Analyzed: 07/27/2017 02:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.2 | Level: (low/med) Low

Analysis Batch No.: 368916 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	30	3.6
1634-04-4	Methyl tert-butyl ether	ND	vs	5.9	0.58
108-87-2	Methylcyclohexane	ND	vs	5.9	0.90
75-09-2	Methylene Chloride	ND	vs	5.9	2.7
100-42-5	Styrene	ND	vs	5.9	0.30
127-18-4	Tetrachloroethene	ND	vs	5.9	0.80
108-88-3	Toluene	ND	vs	5.9	0.45
156-60-5	trans-1,2-Dichloroethene	ND	vs	5.9	0.61
10061-02-6	trans-1,3-Dichloropropene	ND	vs	5.9	2.6
79-01-6	Trichloroethene	ND	vs	5.9	1.3
75-69-4	Trichlorofluoromethane	ND	vs	5.9	0.56
75-01-4	Vinyl chloride	ND	vs	5.9	0.72
1330-20-7	Xylenes, Total	ND	vs	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-126
2037-26-5	Toluene-d8 (Surr)	92		71-125
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6531.D
Lims ID: 480-121501-D-1-A
Client ID: TP-13
Sample Type: Client
Inject. Date: 27-Jul-2017 02:45:30 ALS Bottle#: 35 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121501-D-1-A
Misc. Info.: 480-0064365-015
Operator ID: SO Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 11:54:50 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 11:54:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	204343	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	437268	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	408491	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	158318	45.6	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	952815	46.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	86	332891	47.6	
10 Dichlorodifluoromethane	85		1.827				ND	
12 Chloromethane	50		1.954				ND	
13 Vinyl chloride	62		2.064				ND	
14 Bromomethane	94		2.344				ND	
15 Chloroethane	64		2.417				ND	
17 Trichlorofluoromethane	101		2.611				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.970				ND	
22 1,1-Dichloroethene	96		2.995				ND	
23 Acetone	43	3.055	3.055	0.006	64	4375	2.36	M
26 Carbon disulfide	76		3.201				ND	
27 Methyl acetate	43		3.262				ND	
30 Methylene Chloride	84		3.372				ND	
32 Methyl tert-butyl ether	73		3.524				ND	
34 trans-1,2-Dichloroethene	96		3.554				ND	
39 1,1-Dichloroethane	63		3.883				ND	
43 2-Butanone (MEK)	43		4.315				ND	
45 cis-1,2-Dichloroethene	96		4.327				ND	
50 Chloroform	83		4.564				ND	
51 1,1,1-Trichloroethane	97		4.704				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.832				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.039				ND	
62 Trichloroethene	95		5.519				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.738				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.870				ND	
79 1,1,2-Trichloroethane	83		7.065				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.226				ND	
91 o-Xylene	106		8.658				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

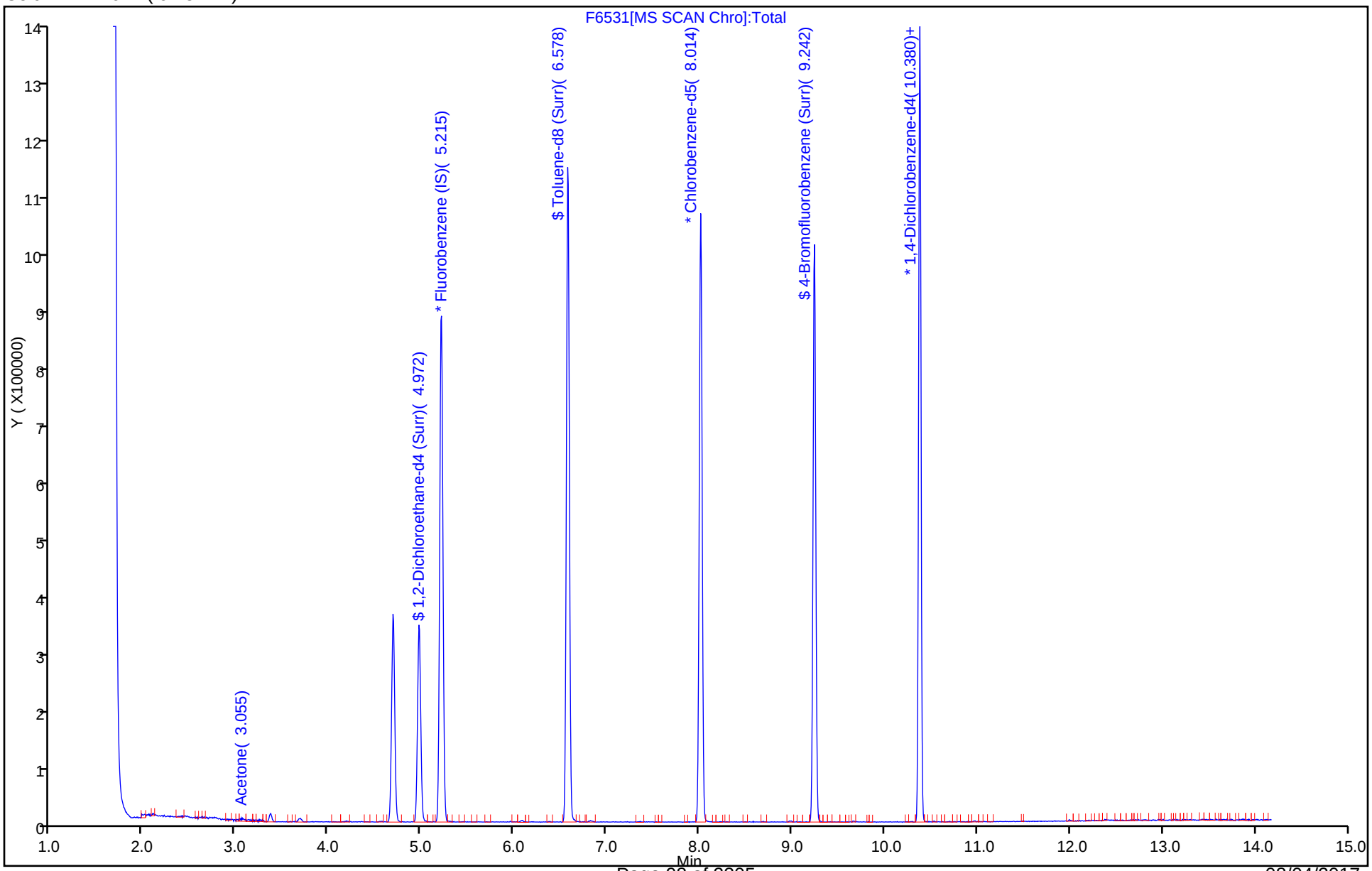
Report Date: 27-Jul-2017 11:54:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6531.D

Injection Date:	27-Jul-2017 02:45:30	Instrument ID:	HP5973F	Operator ID:	SO
Lims ID:	480-121501-D-1-A	Lab Sample ID:	480-121501-1	Worklist Smp#:	15
Client ID:	TP-13				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

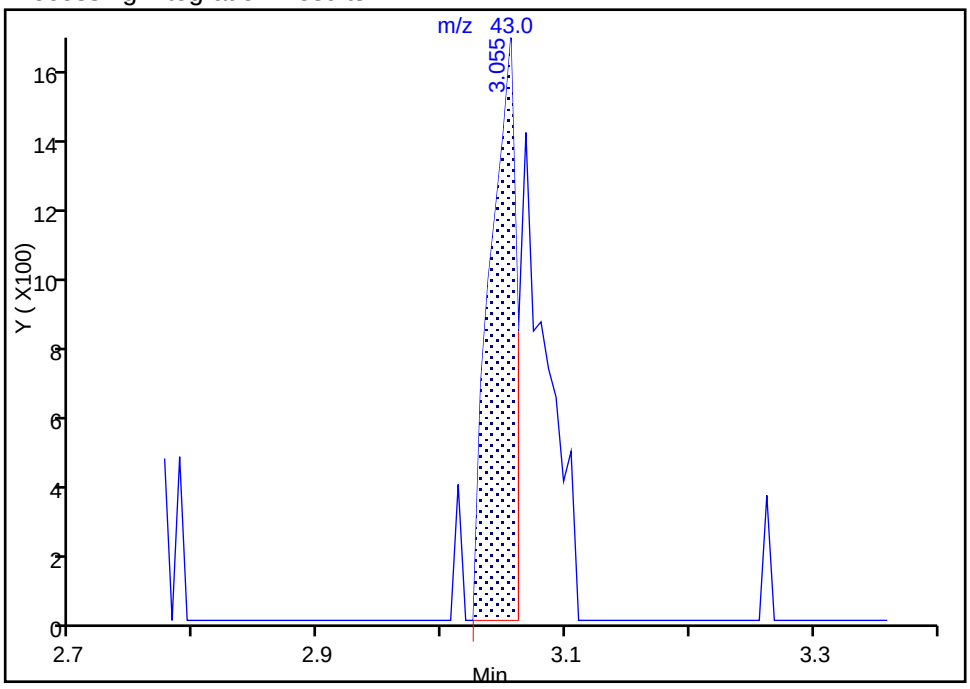
Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6531.D				
Injection Date:	27-Jul-2017 02:45:30	Instrument ID:	HP5973F		
Lims ID:	480-121501-D-1-A	Lab Sample ID:	480-121501-1		
Client ID:	TP-13				
Operator ID:	SO	ALS Bottle#:	35	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

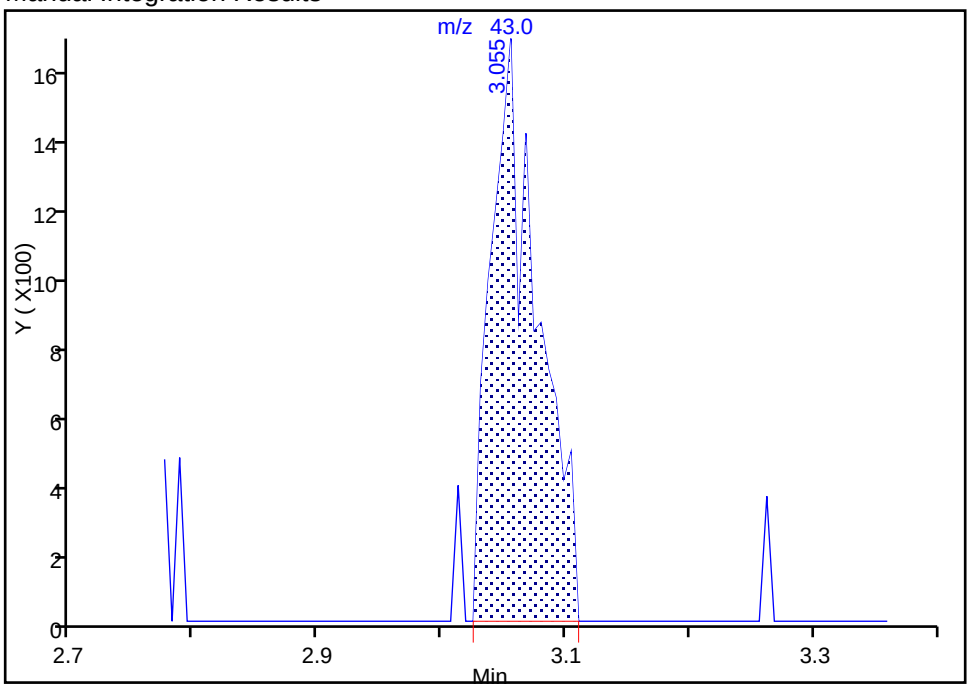
Processing Integration Results

RT: 3.06
Area: 2443
Amount: 1.315818
Amount Units: ug/kg



Manual Integration Results

RT: 3.06
Area: 4375
Amount: 2.356408
Amount Units: ug/kg



Reviewer: moffata, 27-Jul-2017 11:54:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 | Lab Sample ID: 480-121501-2

Matrix: Solid | Lab File ID: F6532.D

Analysis Method: 8260C | Date Collected: 07/21/2017 10:00

Sample wt/vol: 5.14(g) | Date Analyzed: 07/27/2017 03:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 23.9 | Level: (low/med) Low

Analysis Batch No.: 368916 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.4	0.46
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.4	1.0
79-00-5	1,1,2-Trichloroethane	ND	vs	6.4	0.83
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.4	1.5
75-34-3	1,1-Dichloroethane	ND	vs	6.4	0.78
75-35-4	1,1-Dichloroethene	ND	vs	6.4	0.78
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.4	0.39
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.4	3.2
106-93-4	1,2-Dibromoethane	ND	vs	6.4	0.82
95-50-1	1,2-Dichlorobenzene	ND	vs	6.4	0.50
107-06-2	1,2-Dichloroethane	ND	vs	6.4	0.32
78-87-5	1,2-Dichloropropane	ND	vs	6.4	3.2
541-73-1	1,3-Dichlorobenzene	ND	vs	6.4	0.33
106-46-7	1,4-Dichlorobenzene	ND	vs	6.4	0.89
591-78-6	2-Hexanone	ND	vs	32	3.2
78-93-3	2-Butanone (MEK)	ND	vs	32	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	32	2.1
67-64-1	Acetone	ND	vs	32	5.4
71-43-2	Benzene	ND	vs	6.4	0.31
75-27-4	Bromodichloromethane	ND	vs	6.4	0.86
75-25-2	Bromoform	ND	vs	6.4	3.2
74-83-9	Bromomethane	ND	* vs	6.4	0.58
75-15-0	Carbon disulfide	ND	vs	6.4	3.2
56-23-5	Carbon tetrachloride	ND	vs	6.4	0.62
108-90-7	Chlorobenzene	ND	vs	6.4	0.84
124-48-1	Dibromochloromethane	ND	vs	6.4	0.82
75-00-3	Chloroethane	ND	* vs	6.4	1.4
67-66-3	Chloroform	ND	vs	6.4	0.40
74-87-3	Chloromethane	ND	vs	6.4	0.39
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.4	0.82
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.4	0.92
110-82-7	Cyclohexane	ND	vs	6.4	0.89
75-71-8	Dichlorodifluoromethane	ND	vs	6.4	0.53
100-41-4	Ethylbenzene	ND	vs	6.4	0.44
98-82-8	Isopropylbenzene	ND	vs	6.4	0.96

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 | Lab Sample ID: 480-121501-2

Matrix: Solid | Lab File ID: F6532.D

Analysis Method: 8260C | Date Collected: 07/21/2017 10:00

Sample wt/vol: 5.14(g) | Date Analyzed: 07/27/2017 03:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 23.9 | Level: (low/med) Low

Analysis Batch No.: 368916 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	32	3.9
1634-04-4	Methyl tert-butyl ether	ND	vs	6.4	0.63
108-87-2	Methylcyclohexane	ND	vs	6.4	0.97
75-09-2	Methylene Chloride	ND	vs	6.4	2.9
100-42-5	Styrene	ND	vs	6.4	0.32
127-18-4	Tetrachloroethene	ND	vs	6.4	0.86
108-88-3	Toluene	ND	vs	6.4	0.48
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.4	0.66
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.4	2.8
79-01-6	Trichloroethene	ND	vs	6.4	1.4
75-69-4	Trichlorofluoromethane	ND	vs	6.4	0.60
75-01-4	Vinyl chloride	ND	vs	6.4	0.78
1330-20-7	Xylenes, Total	ND	vs	13	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		64-126
2037-26-5	Toluene-d8 (Surr)	95		71-125
460-00-4	4-Bromofluorobenzene (Surr)	91		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6532.D
Lims ID: 480-121501-D-2-A
Client ID: TP-12
Sample Type: Client
Inject. Date: 27-Jul-2017 03:10:30 ALS Bottle#: 36 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121501-D-2-A
Misc. Info.: 480-0064365-016
Operator ID: SO Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 11:54:50 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 11:55:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	199025	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	399920	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	97	337659	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	157511	46.6	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	892980	47.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	86	290468	45.4	
10 Dichlorodifluoromethane	85		1.827				ND	
12 Chloromethane	50		1.954				ND	
13 Vinyl chloride	62		2.064				ND	
14 Bromomethane	94		2.344				ND	
15 Chloroethane	64		2.417				ND	
17 Trichlorofluoromethane	101		2.611				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.970				ND	
22 1,1-Dichloroethene	96		2.995				ND	
23 Acetone	43		3.049				ND	
26 Carbon disulfide	76		3.201				ND	
27 Methyl acetate	43		3.262				ND	
30 Methylene Chloride	84	3.378	3.372	0.006	91	8616	0.2063	
32 Methyl tert-butyl ether	73		3.524				ND	
34 trans-1,2-Dichloroethene	96		3.554				ND	
39 1,1-Dichloroethane	63		3.883				ND	
43 2-Butanone (MEK)	43		4.315				ND	
45 cis-1,2-Dichloroethene	96		4.327				ND	
50 Chloroform	83		4.564				ND	
51 1,1,1-Trichloroethane	97		4.704				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.832				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.039				ND	
62 Trichloroethene	95		5.519				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.738				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.870				ND	
79 1,1,2-Trichloroethane	83		7.065				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.226				ND	
91 o-Xylene	106		8.658				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

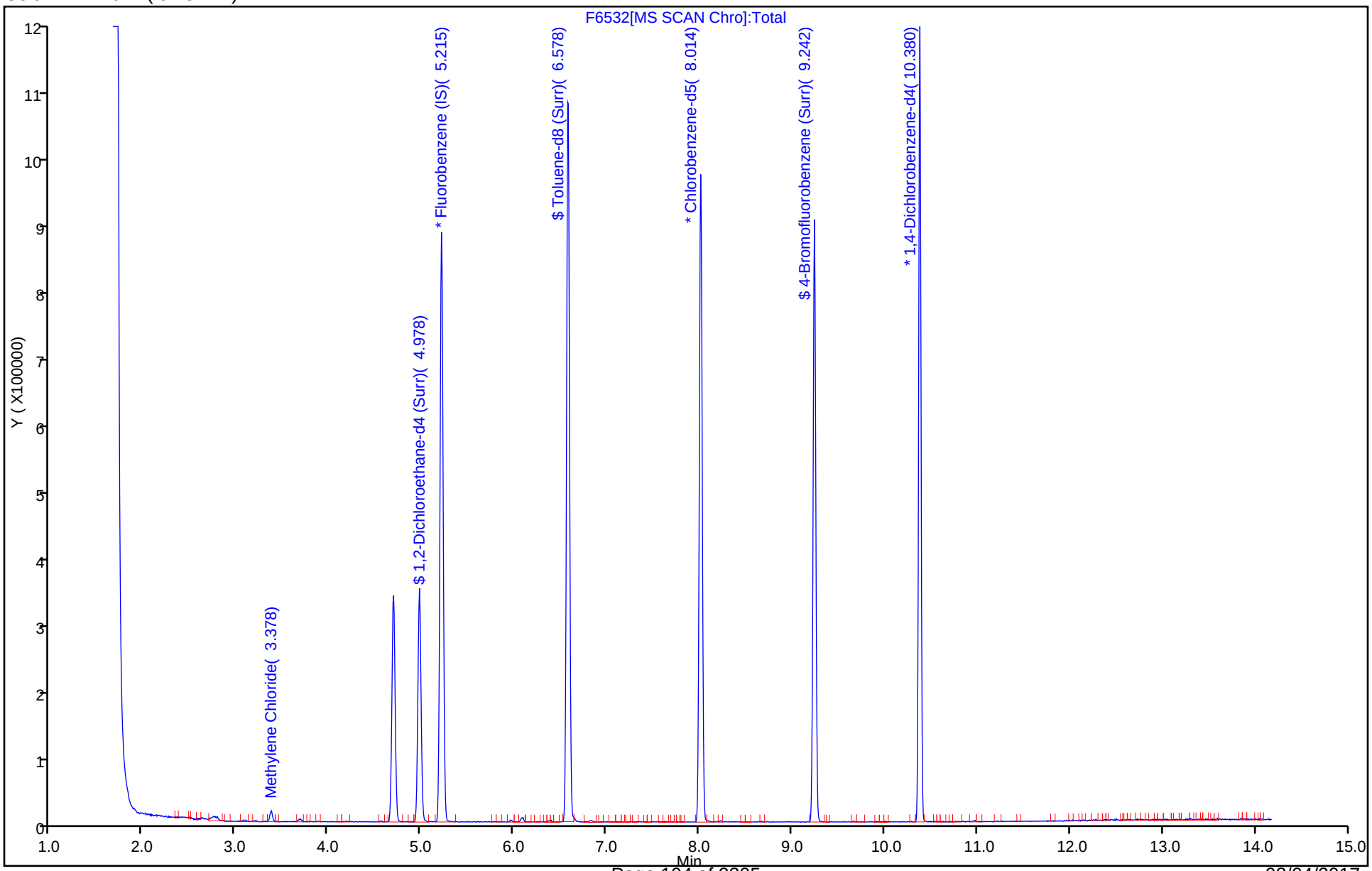
Report Date: 27-Jul-2017 11:55:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6532.D

Injection Date:	27-Jul-2017 03:10:30	Instrument ID:	HP5973F	Operator ID:	SO
Lims ID:	480-121501-D-2-A	Lab Sample ID:	480-121501-2	Worklist Smp#:	16
Client ID:	TP-12				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 | Lab Sample ID: 480-121501-3

Matrix: Solid | Lab File ID: F6550.D

Analysis Method: 8260C | Date Collected: 07/21/2017 11:00

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 13:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 18.8 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.2	0.45
79-34-5	1,1,2,2-Tetrachloroethane	ND	F1 vs	6.2	1.0
79-00-5	1,1,2-Trichloroethane	ND	vs	6.2	0.80
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.2	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.2	0.75
75-35-4	1,1-Dichloroethene	ND	vs	6.2	0.75
120-82-1	1,2,4-Trichlorobenzene	ND	F1 vs	6.2	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND	F1 vs	6.2	3.1
106-93-4	1,2-Dibromoethane	ND	F1 vs	6.2	0.79
95-50-1	1,2-Dichlorobenzene	ND	vs	6.2	0.48
107-06-2	1,2-Dichloroethane	ND	vs	6.2	0.31
78-87-5	1,2-Dichloropropane	ND	vs	6.2	3.1
541-73-1	1,3-Dichlorobenzene	ND	vs	6.2	0.32
106-46-7	1,4-Dichlorobenzene	ND	vs	6.2	0.86
591-78-6	2-Hexanone	ND	vs	31	3.1
78-93-3	2-Butanone (MEK)	ND	F1 vs	31	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	31	2.0
67-64-1	Acetone	ND	vs	31	5.2
71-43-2	Benzene	ND	vs	6.2	0.30
75-27-4	Bromodichloromethane	ND	vs	6.2	0.83
75-25-2	Bromoform	ND	F1 vs	6.2	3.1
74-83-9	Bromomethane	ND	F1 vs	6.2	0.55
75-15-0	Carbon disulfide	ND	vs	6.2	3.1
56-23-5	Carbon tetrachloride	ND	vs	6.2	0.60
108-90-7	Chlorobenzene	ND	vs	6.2	0.81
124-48-1	Dibromochloromethane	ND	F1 vs	6.2	0.79
75-00-3	Chloroethane	ND	* F1 vs	6.2	1.4
67-66-3	Chloroform	ND	vs	6.2	0.38
74-87-3	Chloromethane	ND	vs	6.2	0.37
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.2	0.79
10061-01-5	cis-1,3-Dichloropropene	ND	F1 vs	6.2	0.89
110-82-7	Cyclohexane	ND	vs	6.2	0.86
75-71-8	Dichlorodifluoromethane	ND	vs	6.2	0.51
100-41-4	Ethylbenzene	ND	vs	6.2	0.43
98-82-8	Isopropylbenzene	ND	vs	6.2	0.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 | Lab Sample ID: 480-121501-3

Matrix: Solid | Lab File ID: F6550.D

Analysis Method: 8260C | Date Collected: 07/21/2017 11:00

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 13:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 18.8 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	31	3.7
1634-04-4	Methyl tert-butyl ether	ND	vs	6.2	0.61
108-87-2	Methylcyclohexane	ND	vs	6.2	0.94
75-09-2	Methylene Chloride	ND	vs	6.2	2.8
100-42-5	Styrene	ND	F1 vs	6.2	0.31
127-18-4	Tetrachloroethene	ND	vs	6.2	0.83
108-88-3	Toluene	ND	vs	6.2	0.47
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.2	0.64
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.2	2.7
79-01-6	Trichloroethene	ND	vs	6.2	1.4
75-69-4	Trichlorofluoromethane	ND	vs	6.2	0.58
75-01-4	Vinyl chloride	ND	vs	6.2	0.75
1330-20-7	Xylenes, Total	ND	vs	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-126
2037-26-5	Toluene-d8 (Surr)	92		71-125
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6550.D
Lims ID: 480-121501-D-3-F
Client ID: TP-11
Sample Type: Client
Inject. Date: 27-Jul-2017 13:17:30 ALS Bottle#: 3 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121501-D-3-F
Misc. Info.: 480-0064372-010
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 15:15:33 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: o'briens Date: 27-Jul-2017 17:40:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	199801	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	412862	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	97	355107	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	154350	45.5	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	897046	46.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.242	0.000	86	317349	48.0	
10 Dichlorodifluoromethane	85		1.833				ND	
12 Chloromethane	50		1.954				ND	
13 Vinyl chloride	62		2.064				ND	
14 Bromomethane	94		2.344				ND	
15 Chloroethane	64		2.417				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.976				ND	
22 1,1-Dichloroethene	96		2.994				ND	
23 Acetone	43		3.049				ND	
26 Carbon disulfide	76		3.201				ND	
27 Methyl acetate	43		3.262				ND	
30 Methylene Chloride	84	3.372	3.372	0.000	88	8625	0.2017	
32 Methyl tert-butyl ether	73		3.524				ND	
34 trans-1,2-Dichloroethene	96		3.554				ND	
39 1,1-Dichloroethane	63		3.883				ND	
43 2-Butanone (MEK)	43		4.315				ND	
45 cis-1,2-Dichloroethene	96		4.327				ND	
50 Chloroform	83		4.564				ND	
51 1,1,1-Trichloroethane	97		4.704				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.039				ND	
62 Trichloroethene	95		5.519				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.738				ND	
68 Dichlorobromomethane	83		5.982				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.870				ND	
79 1,1,2-Trichloroethane	83		7.064				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.247				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.594				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.226				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.438				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

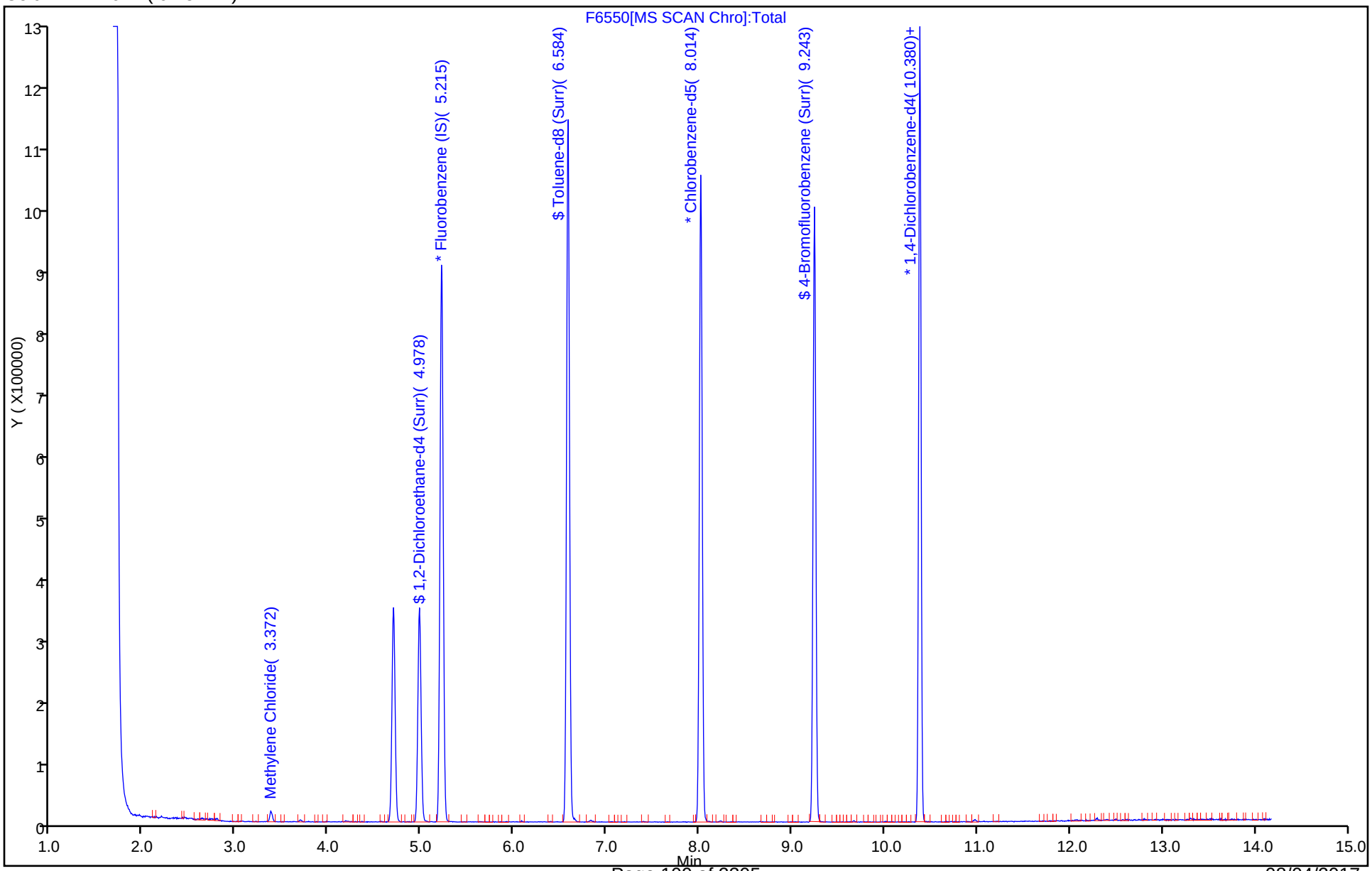
Report Date: 27-Jul-2017 17:40:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6550.D

Injection Date:	27-Jul-2017 13:17:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121501-D-3-F	Lab Sample ID:	480-121501-3	Worklist Smp#:	10
Client ID:	TP-11				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-16 | Lab Sample ID: 480-121501-4

Matrix: Solid | Lab File ID: F6548.D

Analysis Method: 8260C | Date Collected: 07/21/2017 14:00

Sample wt/vol: 5.08(g) | Date Analyzed: 07/27/2017 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 18.5 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.98
79-00-5	1,1,2-Trichloroethane	ND	vs	6.0	0.79
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.0	0.74
75-35-4	1,1-Dichloroethene	ND	vs	6.0	0.74
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0
106-93-4	1,2-Dibromoethane	ND	vs	6.0	0.78
95-50-1	1,2-Dichlorobenzene	ND	vs	6.0	0.47
107-06-2	1,2-Dichloroethane	ND	vs	6.0	0.30
78-87-5	1,2-Dichloropropane	ND	vs	6.0	3.0
541-73-1	1,3-Dichlorobenzene	ND	vs	6.0	0.31
106-46-7	1,4-Dichlorobenzene	ND	vs	6.0	0.85
591-78-6	2-Hexanone	ND	vs	30	3.0
78-93-3	2-Butanone (MEK)	ND	vs	30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0
67-64-1	Acetone	ND	vs	30	5.1
71-43-2	Benzene	ND	vs	6.0	0.30
75-27-4	Bromodichloromethane	ND	vs	6.0	0.81
75-25-2	Bromoform	ND	vs	6.0	3.0
74-83-9	Bromomethane	ND	vs	6.0	0.54
75-15-0	Carbon disulfide	ND	vs	6.0	3.0
56-23-5	Carbon tetrachloride	ND	vs	6.0	0.58
108-90-7	Chlorobenzene	ND	vs	6.0	0.80
124-48-1	Dibromochloromethane	ND	vs	6.0	0.77
75-00-3	Chloroethane	ND	* vs	6.0	1.4
67-66-3	Chloroform	ND	vs	6.0	0.37
74-87-3	Chloromethane	ND	vs	6.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.0	0.77
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.0	0.87
110-82-7	Cyclohexane	ND	vs	6.0	0.85
75-71-8	Dichlorodifluoromethane	ND	vs	6.0	0.50
100-41-4	Ethylbenzene	ND	vs	6.0	0.42
98-82-8	Isopropylbenzene	ND	vs	6.0	0.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-16 | Lab Sample ID: 480-121501-4

Matrix: Solid | Lab File ID: F6548.D

Analysis Method: 8260C | Date Collected: 07/21/2017 14:00

Sample wt/vol: 5.08(g) | Date Analyzed: 07/27/2017 12:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 18.5 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	30	3.6
1634-04-4	Methyl tert-butyl ether	ND	vs	6.0	0.59
108-87-2	Methylcyclohexane	ND	vs	6.0	0.92
75-09-2	Methylene Chloride	ND	vs	6.0	2.8
100-42-5	Styrene	ND	vs	6.0	0.30
127-18-4	Tetrachloroethene	ND	vs	6.0	0.81
108-88-3	Toluene	ND	vs	6.0	0.46
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.0	0.62
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.0	2.7
79-01-6	Trichloroethene	ND	vs	6.0	1.3
75-69-4	Trichlorofluoromethane	ND	vs	6.0	0.57
75-01-4	Vinyl chloride	ND	vs	6.0	0.74
1330-20-7	Xylenes, Total	ND	vs	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		64-126
2037-26-5	Toluene-d8 (Surr)	91		71-125
460-00-4	4-Bromofluorobenzene (Surr)	97		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6548.D
Lims ID: 480-121501-D-4-B
Client ID: TP-16
Sample Type: Client
Inject. Date: 27-Jul-2017 12:26:30 ALS Bottle#: 1 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121501-D-4-B
Misc. Info.: 480-0064372-008
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 15:15:33 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: o'briens Date: 27-Jul-2017 17:39:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	209388	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	432917	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	396389	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	155555	43.7	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	934544	45.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	87	335309	48.4	
10 Dichlorodifluoromethane	85		1.833				ND	
12 Chloromethane	50		1.954				ND	
13 Vinyl chloride	62		2.064				ND	
14 Bromomethane	94		2.344				ND	
15 Chloroethane	64		2.417				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.976				ND	
22 1,1-Dichloroethene	96		2.994				ND	
23 Acetone	43		3.049				ND	
26 Carbon disulfide	76		3.201				ND	
27 Methyl acetate	43		3.262				ND	
30 Methylene Chloride	84	3.378	3.372	0.006	91	13831	1.05	
32 Methyl tert-butyl ether	73		3.524				ND	
34 trans-1,2-Dichloroethene	96		3.554				ND	
39 1,1-Dichloroethane	63		3.883				ND	
43 2-Butanone (MEK)	43		4.315				ND	
45 cis-1,2-Dichloroethene	96		4.327				ND	
50 Chloroform	83		4.564				ND	
51 1,1,1-Trichloroethane	97		4.704				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.039				ND	
62 Trichloroethene	95		5.519				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.738				ND	
68 Dichlorobromomethane	83		5.982				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.870				ND	
79 1,1,2-Trichloroethane	83		7.064				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.247				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.594				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.226				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.438				ND	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	84	1994	0.2404	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

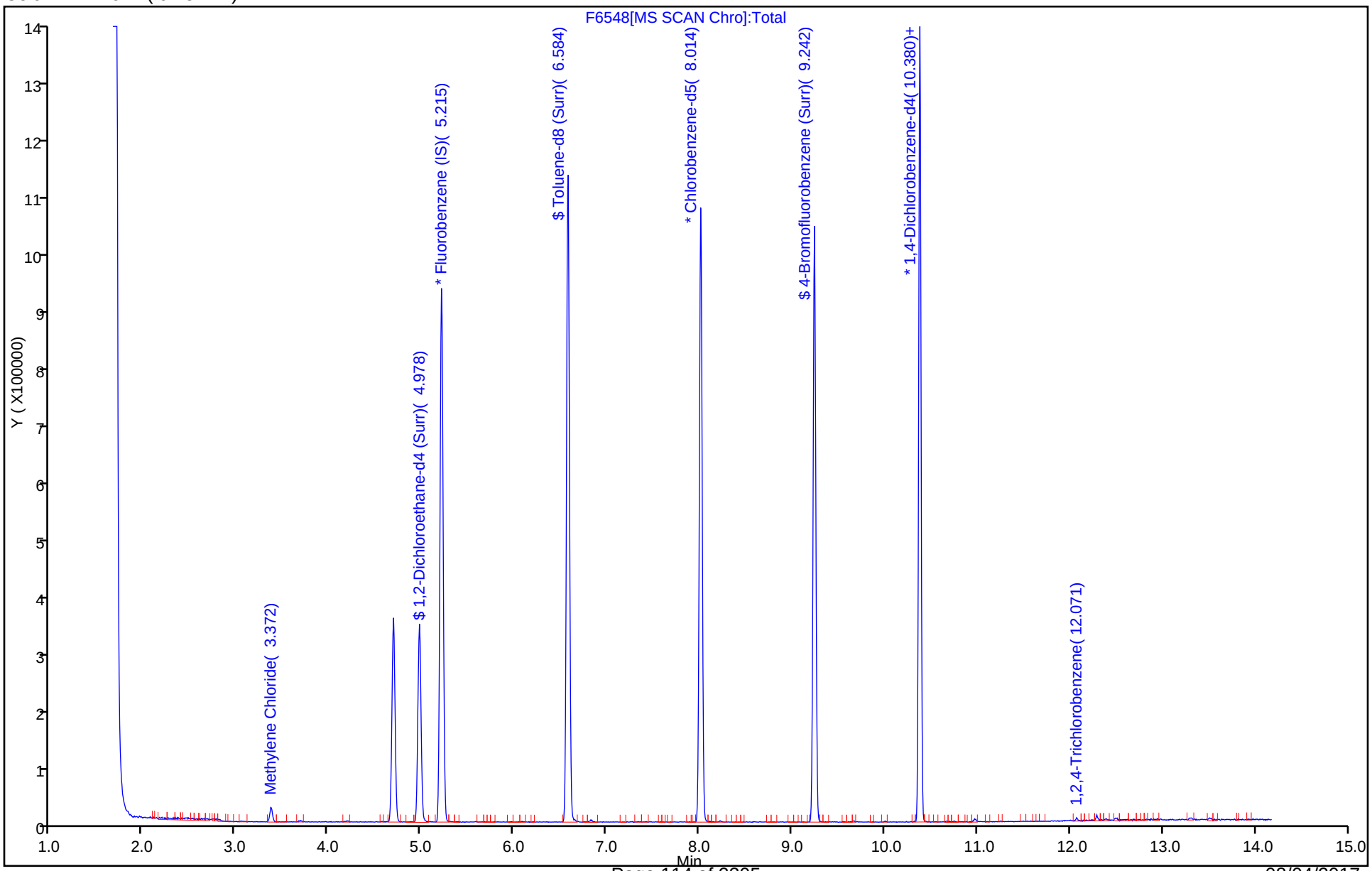
Report Date: 27-Jul-2017 17:39:52 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6548.D

Injection Date:	27-Jul-2017 12:26:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121501-D-4-B	Lab Sample ID:	480-121501-4	Worklist Smp#:	8
Client ID:	TP-16				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-17 | Lab Sample ID: 480-121501-5

Matrix: Solid | Lab File ID: F6549.D

Analysis Method: 8260C | Date Collected: 07/21/2017 13:00

Sample wt/vol: 5.05(g) | Date Analyzed: 07/27/2017 12:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.7 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	6.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	6.0	0.98
79-00-5	1,1,2-Trichloroethane	ND	vs	6.0	0.78
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	6.0	1.4
75-34-3	1,1-Dichloroethane	ND	vs	6.0	0.73
75-35-4	1,1-Dichloroethene	ND	vs	6.0	0.74
120-82-1	1,2,4-Trichlorobenzene	ND	vs	6.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	6.0	3.0
106-93-4	1,2-Dibromoethane	ND	vs	6.0	0.77
95-50-1	1,2-Dichlorobenzene	ND	vs	6.0	0.47
107-06-2	1,2-Dichloroethane	ND	vs	6.0	0.30
78-87-5	1,2-Dichloropropane	ND	vs	6.0	3.0
541-73-1	1,3-Dichlorobenzene	ND	vs	6.0	0.31
106-46-7	1,4-Dichlorobenzene	ND	vs	6.0	0.84
591-78-6	2-Hexanone	ND	vs	30	3.0
78-93-3	2-Butanone (MEK)	ND	vs	30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	30	2.0
67-64-1	Acetone	ND	vs	30	5.1
71-43-2	Benzene	ND	vs	6.0	0.29
75-27-4	Bromodichloromethane	ND	vs	6.0	0.81
75-25-2	Bromoform	ND	vs	6.0	3.0
74-83-9	Bromomethane	ND	vs	6.0	0.54
75-15-0	Carbon disulfide	ND	vs	6.0	3.0
56-23-5	Carbon tetrachloride	ND	vs	6.0	0.58
108-90-7	Chlorobenzene	ND	vs	6.0	0.79
124-48-1	Dibromochloromethane	ND	vs	6.0	0.77
75-00-3	Chloroethane	ND	* vs	6.0	1.4
67-66-3	Chloroform	ND	vs	6.0	0.37
74-87-3	Chloromethane	ND	vs	6.0	0.36
156-59-2	cis-1,2-Dichloroethene	ND	vs	6.0	0.77
10061-01-5	cis-1,3-Dichloropropene	ND	vs	6.0	0.87
110-82-7	Cyclohexane	ND	vs	6.0	0.84
75-71-8	Dichlorodifluoromethane	ND	vs	6.0	0.50
100-41-4	Ethylbenzene	ND	vs	6.0	0.42
98-82-8	Isopropylbenzene	ND	vs	6.0	0.91

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-17 | Lab Sample ID: 480-121501-5

Matrix: Solid | Lab File ID: F6549.D

Analysis Method: 8260C | Date Collected: 07/21/2017 13:00

Sample wt/vol: 5.05(g) | Date Analyzed: 07/27/2017 12:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 17.7 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	30	3.6
1634-04-4	Methyl tert-butyl ether	ND	vs	6.0	0.59
108-87-2	Methylcyclohexane	ND	vs	6.0	0.91
75-09-2	Methylene Chloride	ND	vs	6.0	2.8
100-42-5	Styrene	ND	vs	6.0	0.30
127-18-4	Tetrachloroethene	ND	vs	6.0	0.81
108-88-3	Toluene	ND	vs	6.0	0.45
156-60-5	trans-1,2-Dichloroethene	ND	vs	6.0	0.62
10061-02-6	trans-1,3-Dichloropropene	ND	vs	6.0	2.6
79-01-6	Trichloroethene	ND	vs	6.0	1.3
75-69-4	Trichlorofluoromethane	ND	vs	6.0	0.57
75-01-4	Vinyl chloride	ND	vs	6.0	0.73
1330-20-7	Xylenes, Total	ND	vs	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		64-126
2037-26-5	Toluene-d8 (Surr)	93		71-125
460-00-4	4-Bromofluorobenzene (Surr)	97		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6549.D
Lims ID: 480-121501-D-5-B
Client ID: TP-17
Sample Type: Client
Inject. Date: 27-Jul-2017 12:51:30 ALS Bottle#: 2 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121501-D-5-B
Misc. Info.: 480-0064372-009
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 15:15:33 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: o'briens Date: 27-Jul-2017 17:40:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.209	5.215	-0.006	98	202426	50.0	
* 2 Chlorobenzene-d5	82	8.013	8.014	-0.001	89	419200	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	380259	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	154621	45.0	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	915680	46.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	86	325161	48.5	
10 Dichlorodifluoromethane	85		1.833				ND	
12 Chloromethane	50		1.954				ND	
13 Vinyl chloride	62		2.064				ND	
14 Bromomethane	94		2.344				ND	
15 Chloroethane	64		2.417				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.976				ND	
22 1,1-Dichloroethene	96		2.994				ND	
23 Acetone	43		3.049				ND	
26 Carbon disulfide	76		3.201				ND	
27 Methyl acetate	43		3.262				ND	
30 Methylene Chloride	84	3.372	3.372	0.000	93	10670	0.5568	
32 Methyl tert-butyl ether	73		3.524				ND	
34 trans-1,2-Dichloroethene	96		3.554				ND	
39 1,1-Dichloroethane	63		3.883				ND	
43 2-Butanone (MEK)	43		4.315				ND	
45 cis-1,2-Dichloroethene	96		4.327				ND	
50 Chloroform	83		4.564				ND	
51 1,1,1-Trichloroethane	97		4.704				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.826				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.039				ND	
62 Trichloroethene	95		5.519				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.738				ND	
68 Dichlorobromomethane	83		5.982				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.870				ND	
79 1,1,2-Trichloroethane	83		7.064				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.247				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.594				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.226				ND	
91 o-Xylene	106		8.652				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.438				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

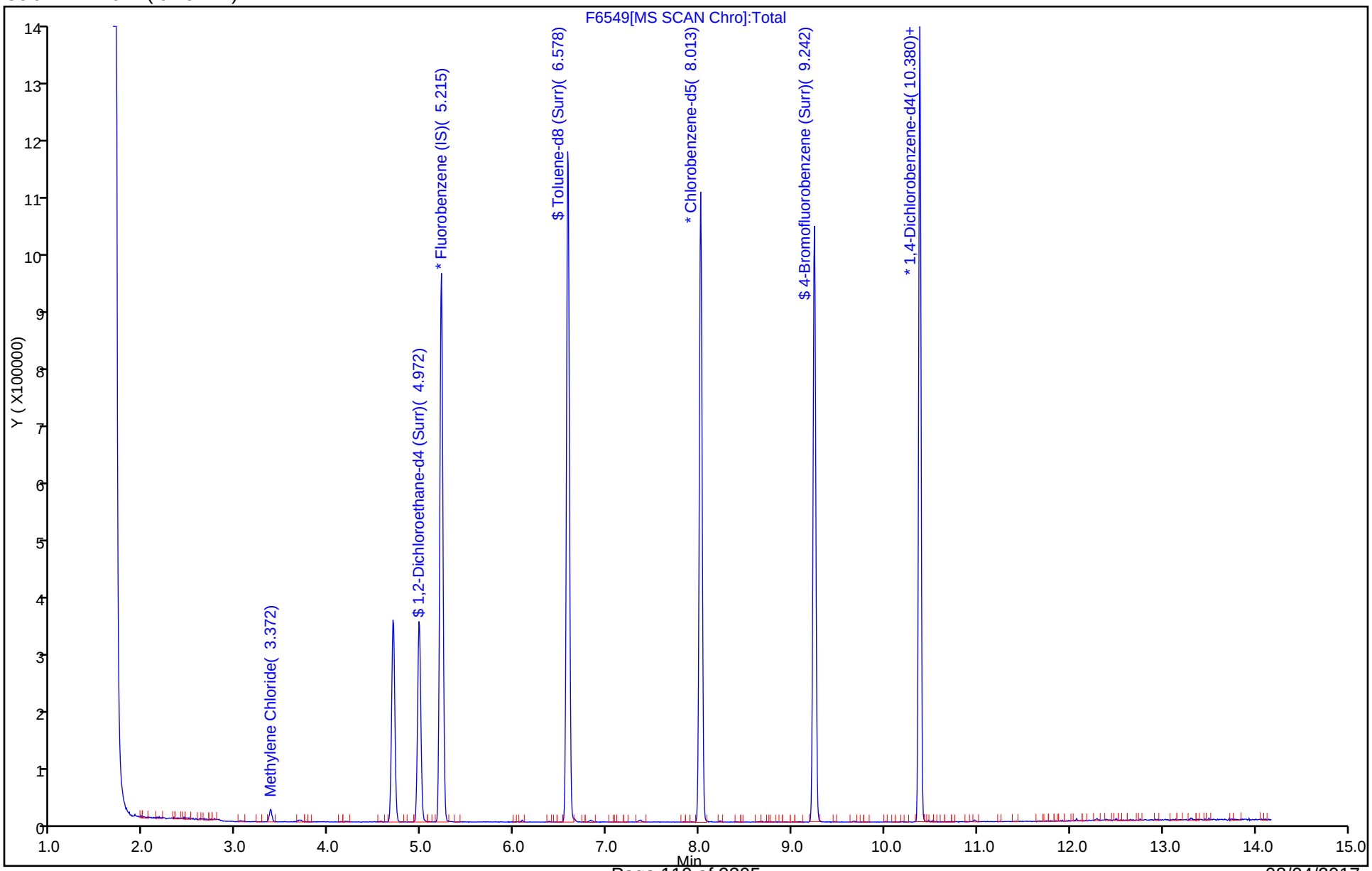
Report Date: 27-Jul-2017 17:40:14 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6549.D

Injection Date:	27-Jul-2017 12:51:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121501-D-5-B	Lab Sample ID:	480-121501-5	Worklist Smp#:	9
Client ID:	TP-17				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121501-6

Matrix: Solid | Lab File ID: F6536.D

Analysis Method: 8260C | Date Collected: 07/21/2017 00:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/27/2017 04:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 16.2 | Level: (low/med) Low

Analysis Batch No.: 368916 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	vs	5.9	0.43
79-34-5	1,1,2,2-Tetrachloroethane	ND	vs	5.9	0.96
79-00-5	1,1,2-Trichloroethane	ND	vs	5.9	0.77
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.4
75-34-3	1,1-Dichloroethane	ND	vs	5.9	0.73
75-35-4	1,1-Dichloroethene	ND	vs	5.9	0.73
120-82-1	1,2,4-Trichlorobenzene	ND	vs	5.9	0.36
96-12-8	1,2-Dibromo-3-Chloropropane	ND	vs	5.9	3.0
106-93-4	1,2-Dibromoethane	ND	vs	5.9	0.76
95-50-1	1,2-Dichlorobenzene	ND	vs	5.9	0.46
107-06-2	1,2-Dichloroethane	ND	vs	5.9	0.30
78-87-5	1,2-Dichloropropane	ND	vs	5.9	3.0
541-73-1	1,3-Dichlorobenzene	ND	vs	5.9	0.31
106-46-7	1,4-Dichlorobenzene	ND	vs	5.9	0.83
591-78-6	2-Hexanone	ND	vs	30	3.0
78-93-3	2-Butanone (MEK)	ND	vs	30	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	vs	30	1.9
67-64-1	Acetone	8.9	J vs	30	5.0
71-43-2	Benzene	ND	vs	5.9	0.29
75-27-4	Bromodichloromethane	ND	vs	5.9	0.80
75-25-2	Bromoform	ND	vs	5.9	3.0
74-83-9	Bromomethane	ND	* vs	5.9	0.53
75-15-0	Carbon disulfide	ND	vs	5.9	3.0
56-23-5	Carbon tetrachloride	ND	vs	5.9	0.58
108-90-7	Chlorobenzene	ND	vs	5.9	0.78
124-48-1	Dibromochloromethane	ND	vs	5.9	0.76
75-00-3	Chloroethane	ND	* vs	5.9	1.3
67-66-3	Chloroform	ND	vs	5.9	0.37
74-87-3	Chloromethane	ND	vs	5.9	0.36
156-59-2	cis-1,2-Dichloroethene	ND	vs	5.9	0.76
10061-01-5	cis-1,3-Dichloropropene	ND	vs	5.9	0.86
110-82-7	Cyclohexane	ND	vs	5.9	0.83
75-71-8	Dichlorodifluoromethane	ND	vs	5.9	0.49
100-41-4	Ethylbenzene	ND	vs	5.9	0.41
98-82-8	Isopropylbenzene	ND	vs	5.9	0.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121501-6

Matrix: Solid | Lab File ID: F6536.D

Analysis Method: 8260C | Date Collected: 07/21/2017 00:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/27/2017 04:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 16.2 | Level: (low/med) Low

Analysis Batch No.: 368916 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	vs	30	3.6
1634-04-4	Methyl tert-butyl ether	ND	vs	5.9	0.58
108-87-2	Methylcyclohexane	ND	vs	5.9	0.90
75-09-2	Methylene Chloride	ND	vs	5.9	2.7
100-42-5	Styrene	ND	vs	5.9	0.30
127-18-4	Tetrachloroethene	ND	vs	5.9	0.80
108-88-3	Toluene	ND	vs	5.9	0.45
156-60-5	trans-1,2-Dichloroethene	ND	vs	5.9	0.61
10061-02-6	trans-1,3-Dichloropropene	ND	vs	5.9	2.6
79-01-6	Trichloroethene	ND	vs	5.9	1.3
75-69-4	Trichlorofluoromethane	ND	vs	5.9	0.56
75-01-4	Vinyl chloride	ND	vs	5.9	0.73
1330-20-7	Xylenes, Total	ND	vs	12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-126
2037-26-5	Toluene-d8 (Surr)	93		71-125
460-00-4	4-Bromofluorobenzene (Surr)	91		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6536.D
Lims ID: 480-121501-D-6-A
Client ID: DUP
Sample Type: Client
Inject. Date: 27-Jul-2017 04:53:30 ALS Bottle#: 40 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121501-D-6-A
Misc. Info.: 480-0064365-020
Operator ID: SO Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 11:54:50 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 12:17:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	187035	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	390117	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	97	344939	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	143986	45.3	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	856724	46.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	86	284101	45.5	
10 Dichlorodifluoromethane	85		1.827				ND	
12 Chloromethane	50		1.954				ND	
13 Vinyl chloride	62		2.064				ND	
14 Bromomethane	94		2.344				ND	
15 Chloroethane	64		2.417				ND	
17 Trichlorofluoromethane	101		2.611				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.970				ND	
22 1,1-Dichloroethene	96		2.995				ND	
23 Acetone	43	3.055	3.049	0.006	100	12728	7.49	
26 Carbon disulfide	76		3.201				ND	
27 Methyl acetate	43		3.262				ND	
30 Methylene Chloride	84	3.366	3.372	-0.006	93	13978	1.38	
32 Methyl tert-butyl ether	73		3.524				ND	
34 trans-1,2-Dichloroethene	96		3.554				ND	
39 1,1-Dichloroethane	63		3.883				ND	
43 2-Butanone (MEK)	43		4.315				ND	
45 cis-1,2-Dichloroethene	96		4.327				ND	
50 Chloroform	83		4.564				ND	
51 1,1,1-Trichloroethane	97		4.704				ND	
52 Cyclohexane	56		4.728				ND	
55 Carbon tetrachloride	117		4.832				ND	
57 Benzene	78		5.002				ND	
58 1,2-Dichloroethane	62		5.039				ND	
62 Trichloroethene	95		5.519				ND	
64 Methylcyclohexane	83		5.653				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63		5.738				ND	
68 Dichlorobromomethane	83		5.976				ND	
72 cis-1,3-Dichloropropene	75		6.353				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456				ND	
74 Toluene	92		6.645				ND	
77 trans-1,3-Dichloropropene	75		6.870				ND	
79 1,1,2-Trichloroethane	83		7.065				ND	
81 Tetrachloroethene	166		7.162				ND	
80 2-Hexanone	43		7.241				ND	
83 Chlorodibromomethane	129		7.466				ND	
84 Ethylene Dibromide	107		7.588				ND	
87 Chlorobenzene	112		8.044				ND	
88 Ethylbenzene	91		8.111				ND	
90 m-Xylene & p-Xylene	106		8.226				ND	
91 o-Xylene	106		8.658				ND	
92 Styrene	104		8.677				ND	
95 Bromoform	173		8.950				ND	
94 Isopropylbenzene	105		9.023				ND	
97 1,1,2,2-Tetrachloroethane	83		9.413				ND	
111 1,3-Dichlorobenzene	146		10.319				ND	
113 1,4-Dichlorobenzene	146		10.404				ND	
116 1,2-Dichlorobenzene	146		10.751				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439				ND	
119 1,2,4-Trichlorobenzene	180		12.071				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

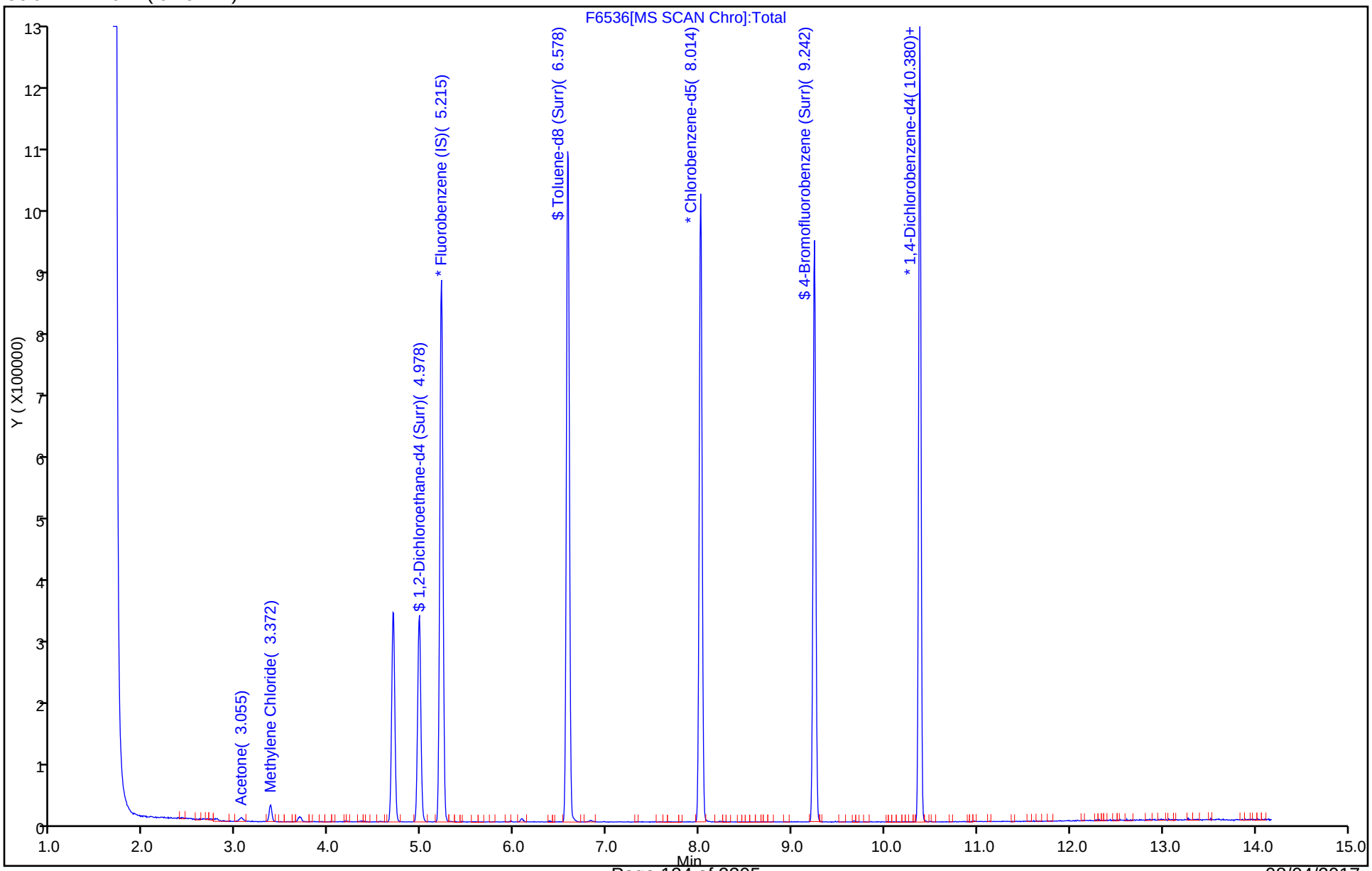
Report Date: 27-Jul-2017 12:17:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6536.D

Injection Date:	27-Jul-2017 04:53:30	Instrument ID:	HP5973F	Operator ID:	SO
Lims ID:	480-121501-D-6-A	Lab Sample ID:	480-121501-6	Worklist Smp#:	20
Client ID:	DUP				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

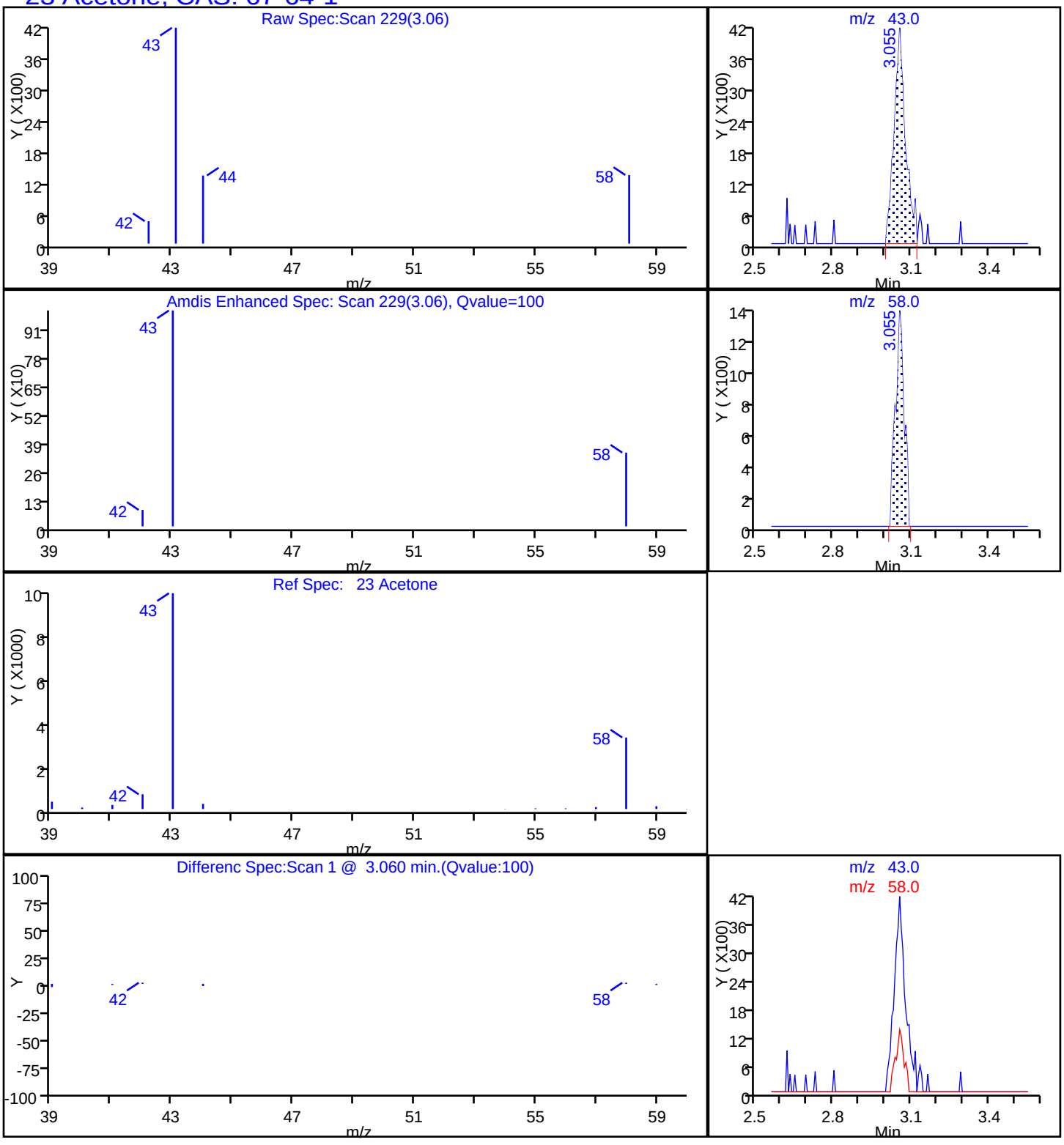


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6536.D

Injection Date:	27-Jul-2017 04:53:30	Instrument ID:	HP5973F		
Lims ID:	480-121501-D-6-A	Lab Sample ID:	480-121501-6		
Client ID:	DUP				
Operator ID:	SO	ALS Bottle#:	40	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-367895/4	F6326.D
Level 2	IC 480-367895/5	F6327.D
Level 3	IC 480-367895/6	F6328.D
Level 4	IC 480-367895/7	F6329.D
Level 5	ICIS 480-367895/8	F6330.D
Level 6	IC 480-367895/9	F6331.D
Level 7	IC 480-367895/10	F6332.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.6637 1.4881	1.5915 1.4183	1.5955	1.5835	1.5288	Ave		1.5528			0.1000	5.2		20.0			
Chloromethane	1.4312 1.2153	1.4242 1.1566	1.3498	1.3016	1.2472	Ave		1.3037			0.1000	8.0		20.0			
Vinyl chloride	1.3275 1.1863	1.2729 1.1246	1.3050	1.2499	1.2079	Ave		1.2391			0.1000	5.7		20.0			
Butadiene	1.2369 1.0283	1.2036 0.9936	1.1703	1.1297	1.0647	Ave		1.1182				8.2		20.0			
Bromomethane	+++++ 0.4185	0.4894 0.4187	0.4626	0.4209	0.4062	Ave		0.4360			0.1000	7.5		20.0			
Chloroethane	0.6242 0.3834	0.5820 0.3796	0.4026	0.3878	0.3769	Lin1	0.6658	0.3734			0.1000				0.9990		0.9900
Dichlorofluoromethane	1.6185 1.3467	1.6191 1.3229	1.4976	1.4227	1.3510	Ave		1.4541				8.7		20.0			
Trichlorofluoromethane	1.7134 1.5169	1.7480 1.4893	1.6556	1.5763	1.5178	Ave		1.6025			0.1000	6.5		20.0			
Ethyl ether	0.8769 0.7820	0.8251 0.7776	0.8120	0.8690	0.8387	Ave		0.8259				4.7		20.0			
Acrolein	0.2273 0.1956	0.2098 0.1850	0.2142	0.2047	0.2086	Ave		0.2065				6.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3964 1.2824	1.3285 1.2563	1.3769	1.4099	1.3241	Ave		1.3392			0.1000	4.3		20.0			
1,1-Dichloroethene	1.2871 1.1665	1.1662 1.1225	1.2588	1.2874	1.1994	Ave		1.2126			0.1000	5.4		20.0			
Acetone	+++++ 0.4171	0.5293 0.4036	0.4458	0.4670	0.4630	Ave		0.4543			0.1000	9.8		20.0			
Iodomethane	2.7399 2.4146	2.4808 2.3191	2.5806	2.5681	2.4682	Ave		2.5102				5.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	+++++ 3.9527	5.2686 3.7345	4.6922	4.4988	4.1469	Ave		4.3823			0.1000	12.7		20.0			
Methyl acetate	0.9636 0.8442	0.9323 0.7754	0.8886	0.8840	0.9211	Ave		0.8870			0.1000	7.0		20.0			
Allyl chloride	+++++ 1.8873	2.1730 1.7696	2.0840	2.0864	1.9582	Ave		1.9931				7.5		20.0			
Methylene Chloride	2.0346 1.3797	1.6638 1.3245	1.5336	1.5092	1.4423	Lin1	1.8874	1.3437			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1398 0.1534	0.1544 0.1493	0.1498	0.1478	0.1659	Ave		0.1515				5.2		20.0			
Methyl tert-butyl ether	4.0931 3.9719	4.0344 3.7965	4.0740	4.1676	4.1935	Ave		4.0473			0.1000	3.3		20.0			
trans-1,2-Dichloroethene	1.5156 1.3143	1.4394 1.2427	1.4409	1.4204	1.3537	Ave		1.3896			0.1000	6.6		20.0			
Acrylonitrile	0.4601 0.4168	0.4596 0.3852	0.4407	0.4433	0.4573	Ave		0.4376				6.3		20.0			
Hexane	+++++ 1.8997	2.0434 1.7957	2.0521	2.0768	1.9738	Ave		1.9736				5.5		20.0			
Vinyl acetate	2.1922 2.1429	2.1731 2.0070	2.1866	2.2534	2.2767	Ave		2.1760				4.0		20.0			
1,1-Dichloroethane	2.6442 2.3225	2.4637 2.2176	2.4762	2.5020	2.3924	Ave		2.4312			0.2000	5.6		20.0			
2,2-Dichloropropane	2.2013 2.0932	2.0469 2.0010	2.1991	2.1879	2.1373	Ave		2.1238				3.7		20.0			
2-Butanone (MEK)	0.5465 0.5809	0.5749 0.5352	0.5941	0.5871	0.6345	Ave		0.5790			0.1000	5.6		20.0			
cis-1,2-Dichloroethene	1.6288 1.4776	1.5448 1.4094	1.5602	1.5927	1.5389	Ave		1.5361			0.1000	4.7		20.0			
Chlorobromomethane	0.7242 0.7252	0.7516 0.7052	0.7210	0.7456	0.7382	Ave		0.7302				2.2		20.0			
Tetrahydrofuran	0.3601 0.3627	0.3747 0.3378	0.3649	0.3547	0.3889	Ave		0.3634				4.4		20.0			
Chloroform	2.7848 2.4680	2.6058 2.3554	2.5913	2.6195	2.5122	Ave		2.5624			0.2000	5.3		20.0			
1,1,1-Trichloroethane	2.2970 2.2067	2.1807 2.1337	2.2483	2.2534	2.2186	Ave		2.2198			0.1000	2.4		20.0			
Cyclohexane	+++++ 2.0752	2.2724 1.9544	2.2324	2.2628	2.1294	Ave		2.1544			0.1000	5.8		20.0			
1,1-Dichloropropene	+++++ 1.8309	1.9142 1.7197	1.9395	1.9498	1.8729	Ave		1.8712				4.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	1.6195 1.8329	1.5157 1.8370	1.6099	1.6835	1.7665	Ave		1.6950			0.1000	7.2		20.0			
Isobutyl alcohol	0.0579 0.0613	0.0556 0.0590	0.0551	0.0574	0.0661	Ave		0.0589				6.4		20.0			
Benzene	5.6858 4.9218	5.2573 4.5929	5.4022	5.3155	5.1201	Ave		5.1851			0.5000	6.8		20.0			
1,2-Dichloroethane	2.3581 2.0715	2.1833 1.9723	2.1446	2.1967	2.1605	Ave		2.1553			0.1000	5.5		20.0			
n-Heptane	+++++ 1.8516	2.0755 1.7372	2.0189	2.0846	1.9163	Ave		1.9474				7.1		20.0			
Trichloroethene	1.5575 1.3943	1.4421 1.3471	1.4775	1.4610	1.4232	Ave		1.4432			0.2000	4.6		20.0			
Methylcyclohexane	2.7488 2.3437	2.3679 2.2259	2.5216	2.5096	2.4123	Ave		2.4471			0.1000	6.8		20.0			
1,2-Dichloropropane	1.3606 1.2641	1.2664 1.2239	1.2745	1.3316	1.2825	Ave		1.2862			0.1000	3.5		20.0			
1,4-Dioxane	0.0028 0.0073	0.0043 0.0073	0.0064	0.0074	0.0079	Lin1	-0.228	0.0075							0.9980		0.9900
Dibromomethane	0.9136 0.8875	0.8747 0.8501	0.9016	0.9120	0.9057	Ave		0.8921			0.1000	2.6		20.0			
Bromodichloromethane	1.4490 1.7755	1.4867 1.7806	1.5388	1.6740	1.7170	Ave		1.6317			0.2000	8.5		20.0			
2-Chloroethyl vinyl ether	0.7570 0.7638	0.7163 0.7361	0.7445	0.7498	0.7944	Ave		0.7517				3.2		20.0			
cis-1,3-Dichloropropene	1.9925 2.1996	1.9847 2.1314	2.0107	2.1288	2.2149	Ave		2.0947			0.2000	4.7		20.0			
4-Methyl-2-pentanone (MIBK)	0.5810 0.5589	0.5806 0.5024	0.5800	0.5854	0.6148	Ave		0.5719			0.1000	6.1		20.0			
Toluene	+++++ 1.5859	1.7966 1.5160	1.6926	1.7063	1.6269	Ave		1.6540			0.4000	6.0		20.0			
trans-1,3-Dichloropropene	0.8572 0.9963	0.8128 0.9754	0.8857	0.9607	0.9873	Ave		0.9251			0.1000	7.8		20.0			
Ethyl methacrylate	0.7752 0.8296	0.7521 0.7997	0.7856	0.8281	0.8507	Ave		0.8030				4.3		20.0			
1,1,2-Trichloroethane	0.4759 0.4675	0.4570 0.4547	0.4699	0.4804	0.4780	Ave		0.4691			0.1000	2.2		20.0			
Tetrachloroethene	0.8058 0.7321	0.7596 0.7085	0.7546	0.7696	0.7512	Ave		0.7545			0.2000	4.0		20.0			
1,3-Dichloropropane	1.0724 0.9675	0.9595 0.9271	0.9779	1.0239	1.0054	Ave		0.9905				4.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.4023 0.4087	0.4233 0.3669	0.4198	0.4215	0.4493	Ave		0.4131			0.1000	6.1		20.0			
Dibromochloromethane	+++++ 0.6354	0.4031 0.6673	0.4402	0.5200	0.5888	Lin1	-1.840	0.6605			0.1000				0.9980		0.9900
1,2-Dibromoethane	0.5851 0.5926	0.5431 0.5761	0.5622	0.5879	0.5904	Ave		0.5768				3.1		20.0			
Chlorobenzene	1.9705 1.7563	1.8282 1.6771	1.8307	1.8661	1.7874	Ave		1.8166			0.5000	5.0		20.0			
Ethylbenzene	+++++ 2.9081	3.1700 2.6429	3.1661	3.2038	3.0365	Ave		3.0212			0.1000	7.1		20.0			
1,1,1,2-Tetrachloroethane	0.5199 0.6557	0.5087 0.6555	0.5348	0.5970	0.6345	Ave		0.5866				11.0		20.0			
m,p-Xylene	+++++ 1.1966	1.2445 1.1431	1.2474	1.2587	1.2249	Ave		1.2192			0.1000	3.5		20.0			
o-Xylene	1.2913 1.1543	1.1827 1.1181	1.1898	1.2307	1.1888	Ave		1.1937			0.3000	4.6		20.0			
Styrene	+++++ 1.9880	2.0666 1.8844	2.0811	2.1281	2.0428	Ave		2.0318			0.3000	4.2		20.0			
Bromoform	+++++ 0.4107	0.1981 0.4462	0.2298	0.2751	0.3539	Lin1	-1.817	0.4356			0.1000				0.9930		0.9900
Isopropylbenzene	3.3922 2.8746	3.1859 2.6502	3.1836	3.1495	3.0125	Ave		3.0641			0.1000	7.9		20.0			
1,1,2,2-Tetrachloroethane	0.7182 0.6981	0.7094 0.6572	0.7220	0.7206	0.7493	Ave		0.7107			0.3000	4.0		20.0			
Bromobenzene	0.8700 0.8004	0.8465 0.7884	0.8399	0.8504	0.8324	Ave		0.8326				3.5		20.0			
trans-1,4-Dichloro-2-butene	0.2074 0.2292	0.2211 0.2143	0.2088	0.2187	0.2391	Ave		0.2198				5.1		20.0			
N-Propylbenzene	4.0971 3.2490	3.7715 2.8837	3.7617	3.7114	3.5319	Ave		3.5723				11.1		20.0			
1,2,3-Trichloropropane	0.2586 0.2293	0.2530 0.2195	0.2414	0.2396	0.2491	Ave		0.2415				5.7		20.0			
2-Chlorotoluene	0.7957 0.7039	0.7326 0.6825	0.7537	0.7414	0.7265	Ave		0.7337				4.9		20.0			
1,3,5-Trimethylbenzene	2.9560 2.4733	2.6985 2.2744	2.7537	2.7320	2.6045	Ave		2.6418				8.3		20.0			
4-Chlorotoluene	0.8316 0.7288	0.8017 0.7136	0.7893	0.7799	0.7629	Ave		0.7726				5.3		20.0			
tert-Butylbenzene	0.6679 0.5873	0.5974 0.5741	0.6236	0.6149	0.6026	Ave		0.6097				5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	3.0356 2.5393	2.8595 2.3455	2.7773	2.7840	2.7085	Ave		2.7214				8.2		20.0			
sec-Butylbenzene	3.7476 3.1027	3.4401 2.7803	3.5022	3.4487	3.3091	Ave		3.3330				9.4		20.0			
4-Isopropyltoluene	3.1337 2.6811	2.8661 2.4373	2.9694	2.9226	2.8398	Ave		2.8357				7.9		20.0			
1,3-Dichlorobenzene	1.7500 1.5297	1.6612 1.4610	1.6330	1.6277	1.5876	Ave		1.6072			0.6000	5.8		20.0			
1,4-Dichlorobenzene	1.8007 1.5457	1.6424 1.4665	1.6295	1.6528	1.6056	Ave		1.6205			0.5000	6.4		20.0			
n-Butylbenzene	2.9154 2.4500	2.6719 2.2222	2.7876	2.7096	2.6157	Ave		2.6246				8.7		20.0			
1,2-Dichlorobenzene	1.6586 1.4624	1.5579 1.4100	1.5335	1.5545	1.5272	Ave		1.5291			0.4000	5.1		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1525	0.1125 0.1550	0.1180	0.1242	0.1524	Ave		0.1357			0.0500	14.4		20.0			
1,2,4-Trichlorobenzene	1.0980 1.0237	1.0384 0.9933	1.0564	1.0704	1.0437	Ave		1.0463			0.2000	3.2		20.0			
Hexachlorobutadiene	0.6576 0.5993	0.5982 0.5885	0.6351	0.6221	0.6157	Ave		0.6167				3.9		20.0			
Naphthalene	2.3326 2.2912	2.2743 2.1238	2.3049	2.3599	2.4090	Ave		2.2994				3.9		20.0			
1,2,3-Trichlorobenzene	0.9674 0.9426	0.9328 0.9210	0.9796	0.9873	0.9709	Ave		0.9574				2.6		20.0			
Dibromofluoromethane (Surr)	1.2863 1.3236	1.3172 1.3143	1.3078	1.3211	1.3164	Ave		1.3124				1.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8438 0.8558	0.8572 0.8349	0.8480	0.8507	0.8560	Ave		0.8495				0.9		20.0			
Toluene-d8 (Surr)	2.3463 2.3916	2.3195 2.4337	2.3265	2.3726	2.3400	Ave		2.3614				1.7		20.0			
4-Bromofluorobenzene (Surr)	0.7904 0.8178	0.7729 0.8253	0.7888	0.8058	0.8007	Ave		0.8002				2.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-367895/4	F6326.D
Level 2	IC 480-367895/5	F6327.D
Level 3	IC 480-367895/6	F6328.D
Level 4	IC 480-367895/7	F6329.D
Level 5	ICIS 480-367895/8	F6330.D
Level 6	IC 480-367895/9	F6331.D
Level 7	IC 480-367895/10	F6332.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	20456 741873	38568 1429613	77845	155081	381744	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	17597 605870	34514 1165843	65856	127472	311413	2.50 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	16322 591393	30846 1133626	63671	122408	301611	2.50 100	5.00 200	10.0	20.0	50.0
Butadiene	FB	Ave	15209 512635	29166 1001545	57097	110638	265865	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	+++++ 208645	11859 421995	22568	41218	101419	+++++ 100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Lin1	7675 191114	14103 382631	19642	37981	94116	2.50 100	5.00 200	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	19900 671368	39235 1333487	73065	139336	337337	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	21068 756204	42359 1501188	80778	154383	378988	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	10782 389861	19995 783815	39616	85113	209421	2.50 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	13974 487499	25426 932528	52261	100234	260409	12.5 500	25.0 1000	50.0	100	250
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	17170 639325	32193 1266344	67180	138081	330615	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	FB	Ave	15826 581513	28261 1131484	61418	126090	299491	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	FB	Ave	+++++ 1039731	64131 2033994	108751	228705	577992	+++++ 500	25.0 1000	50.0	100	250
Iodomethane	FB	Ave	33689 1203737	60119 2337632	125906	251515	616313	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	+++++ 1970515	127676 3764285	228931	440604	1035466	+++++ 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	59238 2104286	112960 3908178	216780	432895	1149993	12.5 500	25.0 1000	50.0	100	250
Allyl chloride	FB	Ave	+++++ 940884	52660 1783697	101676	204336	488969	+++++ 100	5.00 200	10.0	20.0	50.0
Methylene Chloride	FB	Lin1	25017 687823	40319 1335054	74824	147807	360148	2.50 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	FB	Ave	17186 764786	37410 1505047	73099	144732	414273	25.0 1000	50.0 2000	100	200	500
Methyl tert-butyl ether	FB	Ave	50327 1980070	97766 3826867	198768	408164	1047101	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	18635 655195	34882 1252613	70303	139110	338014	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	56573 2077609	111382 3883165	215024	434187	1141954	25.0 1000	50.0 2000	100	200	500
Hexane	FB	Ave	+++++ 947060	49518 1810080	100119	203396	492855	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	53909 2136567	105324 4046103	213366	441380	1136990	5.00 200	10.0 400	20.0	40.0	100
1,1-Dichloroethane	FB	Ave	32512 1157813	59704 2235335	120814	245036	597370	2.50 100	5.00 200	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	27066 1043497	49602 2017030	107293	214283	533678	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	33597 1447892	69657 2697481	144926	287478	792178	12.5 500	25.0 1000	50.0	100	250
cis-1,2-Dichloroethene	FB	Ave	20027 736608	37435 1420670	76121	155990	384257	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	FB	Ave	8905 361526	18214 710828	35175	73027	184333	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	FB	Ave	8855 361624	18159 681039	35610	69477	194222	5.00 200	10.0 400	20.0	40.0	100
Chloroform	FB	Ave	34241 1230364	63146 2374185	126428	256544	627303	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	28243 1100104	52846 2150762	109691	220696	553979	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	FB	Ave	+++++ 1034557	55068 1969972	108917	221619	531715	+++++ 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 912737	46387 1733486	94629	190958	467658	+++++ 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	19913 913747	36731 1851720	78546	164876	441092	2.50 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	17812 763740	33664 1487313	67186	140420	412434	62.5 2500	125 5000	250	500	1250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	69911 2453615	127402 4629602	263571	520586	1278496	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	28994 1032689	52909 1988012	104633	215143	539467	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	FB	Ave	+++++ 923082	50297 1751083	98499	204161	478499	+++++ 100	5.00 200	10.0	20.0	50.0
Trichloroethene	FB	Ave	19150 695074	34946 1357877	72088	143085	355378	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	33798 1168368	57382 2243684	123025	245784	602359	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	16729 630179	30688 1233710	62184	130413	320235	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBNZ d5	Lin1	1419 148459	4367 297020	12977	29534	81171	50.0 2000	100 4000	200	400	1000
Dibromomethane	FB	Ave	11233 442414	21196 856867	43988	89319	226152	2.50 100	5.00 200	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	17816 885133	36028 1794814	75075	163947	428742	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	9308 380764	17359 742017	36326	73434	198370	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	24499 1096527	48096 2148475	98100	208493	553054	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	72745 2849063	146175 5118631	292317	587035	1579381	12.5 500	25.0 1000	50.0	100	250
Toluene	CBNZ d5	Ave	+++++ 1616962	90464 3089086	170625	342202	835846	+++++ 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	21464 1015861	40926 1987513	89290	192671	507270	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	19411 845847	37872 1629551	79191	166076	437086	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	11917 476634	23009 926647	47365	96346	245609	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	20176 746479	38247 1443677	76074	154343	385945	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	26853 986490	48314 1889226	98578	205342	516543	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBNZ d5	Ave	50361 2083553	106561 3738265	211612	422631	1154083	12.5 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBNZ d5	Lin1	+++++ 647861	20297 1359822	44373	104294	302519	+++++ 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	14651 604203	27346 1173860	56670	117915	303332	2.50 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	49341 1790763	92057 3417394	184551	374264	918308	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 2965117	159616 5385473	319166	642538	1560076	+++++ 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	13018 668575	25613 1335762	53910	119732	325999	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBNZ d5	Ave	+++++ 1220088	62664 2329337	125749	252446	629311	+++++ 100	5.00 200	10.0	20.0	50.0
o-Xylene	CBNZ d5	Ave	32333 1176909	59554 2278394	119941	246824	610756	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 2027015	104059 3839885	209786	426796	1049534	+++++ 100	5.00 200	10.0	20.0	50.0
Bromoform	CBNZ d5	Lin1	+++++ 418708	9976 909203	23164	55168	181803	+++++ 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCBd 4	Ave	83447 3041683	156677 5569835	317727	643751	1571829	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	17667 738707	34885 1381192	72052	147285	390962	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCBd 4	Ave	21403 846905	41628 1656976	83823	173816	434307	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	5102 242562	10873 450490	20837	44694	124745	2.50 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	100787 3437834	185477 6060485	375418	758597	1842824	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	6362 242618	12440 461259	24094	48977	129969	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	19573 744807	36028 1434353	75216	151537	379075	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	72717 2617115	132707 4780011	274822	558408	1358965	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	20457 771222	39427 1499790	78776	159413	398034	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	16429 621466	29380 1206491	62233	125676	314436	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	74676 2686903	140625 4929543	277170	569033	1413205	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	92189 3283091	169181 5843192	349523	704913	1726572	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	77088 2836916	140952 5122436	296347	597373	1481738	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	43049 1618609	81695 3070433	162976	332702	828372	2.50 100	5.00 200	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367895

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/20/2017 11:43 Calibration End Date: 07/20/2017 14:16 Calibration ID: 30918

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	44297 1635606	80773 3082149	162620	337831	837772	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	71718 2592397	131400 4670385	278206	553836	1364825	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	40802 1547381	76614 2963263	153047	317727	796831	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 161337	5533 325731	11772	25376	79527	+++++ 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	27010 1083264	51068 2087551	105428	218779	544554	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	16176 634166	29420 1236872	63386	127165	321237	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	57382 2424395	111845 4463512	230027	482362	1256929	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	23799 997367	45872 1935590	97765	201808	506579	2.50 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	316313 329921	319194 331206	319033	323454	328709	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	207506 213309	207716 210382	206878	208278	213748	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	1175017 1219264	1167924 1239779	1172619	1189593	1202239	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	395821 416905	389165 420445	397567	404014	411389	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jul-2017 11:43:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0064196-004
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:23 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 12:47:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	245914	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	500788	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	491995	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	93	316313	50.0	49.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	207506	50.0	49.7	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	1175017	50.0	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	88	395821	50.0	49.4	
10 Dichlorodifluoromethane	85	1.839	1.827	0.012	98	20456	2.50	2.68	
12 Chloromethane	50	1.948	1.954	-0.006	98	17597	2.50	2.74	
13 Vinyl chloride	62	2.058	2.064	-0.006	97	16322	2.50	2.68	
151 Butadiene	54	2.076	2.076	0.000	89	15209	2.50	2.77	
14 Bromomethane	94	2.344	2.338	0.006	96	8054	2.50	3.76	
15 Chloroethane	64	2.411	2.417	-0.006	97	7675	2.50	2.40	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	96	19900	2.50	2.78	
17 Trichlorofluoromethane	101	2.611	2.605	0.006	88	21068	2.50	2.67	
18 Ethyl ether	59	2.782	2.788	-0.006	91	10782	2.50	2.65	
20 Acrolein	56	2.946	2.934	0.012	97	13974	12.5	13.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	91	17170	2.50	2.61	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	98	15826	2.50	2.65	
23 Acetone	43	3.043	3.049	-0.006	99	35479	12.5	15.9	
25 Iodomethane	142	3.147	3.147	0.000	99	33689	2.50	2.73	
26 Carbon disulfide	76	3.202	3.195	0.007	99	84112	2.50	3.90	
27 Methyl acetate	43	3.262	3.256	0.006	95	59238	12.5	13.6	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	77	29314	2.50	2.99	
30 Methylene Chloride	84	3.378	3.372	0.006	93	25017	2.50	2.38	
31 2-Methyl-2-propanol	59	3.433	3.427	0.006	91	17186	25.0	23.1	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	97	50327	2.50	2.53	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	97	18635	2.50	2.73	
33 Acrylonitrile	53	3.579	3.567	0.012	97	56573	25.0	26.3	
35 Hexane	57	3.688	3.688	0.000	92	29719	2.50	3.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.871	3.865	0.006	97	53909	5.00	5.04	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	95	32512	2.50	2.72	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	67	27066	2.50	2.59	
43 2-Butanone (MEK)	43	4.321	4.309	0.012	89	33597	12.5	11.8	
45 cis-1,2-Dichloroethene	96	4.327	4.321	0.006	84	20027	2.50	2.65	
48 Chlorobromomethane	128	4.528	4.522	0.006	88	8905	2.50	2.48	
49 Tetrahydrofuran	42	4.558	4.546	0.012	51	8855	5.00	4.95	
50 Chloroform	83	4.564	4.558	0.006	94	34241	2.50	2.72	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	50	28243	2.50	2.59	
52 Cyclohexane	56	4.741	4.729	0.013	90	31795	2.50	3.00	
54 1,1-Dichloropropene	75	4.826	4.820	0.006	94	25969	2.50	2.82	
55 Carbon tetrachloride	117	4.838	4.832	0.006	93	19913	2.50	2.39	
53 Isobutyl alcohol	43	4.893	4.887	0.006	87	17812	62.5	61.5	M
57 Benzene	78	5.002	5.002	0.000	93	69911	2.50	2.74	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	94	28994	2.50	2.74	
59 n-Heptane	43	5.094	5.100	-0.006	89	28281	2.50	2.95	
62 Trichloroethene	95	5.526	5.519	0.007	96	19150	2.50	2.70	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	33798	2.50	2.81	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	90	16729	2.50	2.64	
66 1,4-Dioxane	88	5.854	5.842	0.012	1	1419	50.0	49.4	M
67 Dibromomethane	93	5.866	5.866	0.000	92	11233	2.50	2.56	
68 Dichlorobromomethane	83	5.982	5.976	0.006	98	17816	2.50	2.22	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	91	9308	2.50	2.52	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	24499	2.50	2.38	
73 4-Methyl-2-pentanone (MIBK	43	6.462	6.456	0.006	97	72745	12.5	12.7	
74 Toluene	92	6.645	6.645	0.000	98	52464	2.50	3.17	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	94	21464	2.50	2.32	
75 Ethyl methacrylate	69	6.876	6.870	0.006	68	19411	2.50	2.41	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	94	11917	2.50	2.54	
81 Tetrachloroethene	166	7.162	7.162	0.000	93	20176	2.50	2.67	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	94	26853	2.50	2.71	
80 2-Hexanone	43	7.247	7.241	0.006	95	50361	12.5	12.2	
83 Chlorodibromomethane	129	7.472	7.466	0.006	87	9941	2.50	4.29	
84 Ethylene Dibromide	107	7.594	7.594	0.000	97	14651	2.50	2.54	
87 Chlorobenzene	112	8.044	8.044	0.000	94	49341	2.50	2.71	
88 Ethylbenzene	91	8.111	8.111	0.000	98	88914	2.50	2.94	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	89	13018	2.50	2.22	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	36209	2.50	2.97	
91 o-Xylene	106	8.659	8.658	0.001	96	32333	2.50	2.70	
92 Styrene	104	8.677	8.677	0.000	94	63471	2.50	3.12	
95 Bromoform	173	8.951	8.951	0.001	90	5022	2.50	5.32	
94 Isopropylbenzene	105	9.024	9.024	0.000	97	83447	2.50	2.77	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	73	17667	2.50	2.53	
101 Bromobenzene	156	9.419	9.413	0.006	92	21403	2.50	2.61	
98 trans-1,4-Dichloro-2-buten	53	9.456	9.455	0.001	41	5102	2.50	2.36	
99 N-Propylbenzene	91	9.456	9.455	0.001	99	100787	2.50	2.87	
100 1,2,3-Trichloropropane	110	9.468	9.462	0.006	52	6362	2.50	2.68	
103 2-Chlorotoluene	126	9.583	9.589	-0.006	95	19573	2.50	2.71	
102 1,3,5-Trimethylbenzene	105	9.632	9.626	0.006	94	72717	2.50	2.80	
105 4-Chlorotoluene	126	9.699	9.693	0.006	99	20457	2.50	2.69	
106 tert-Butylbenzene	134	9.954	9.954	0.000	90	16429	2.50	2.74	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	96	74676	2.50	2.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	92189	2.50	2.81	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	77088	2.50	2.76	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	43049	2.50	2.72	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.001	95	44297	2.50	2.78	
115 n-Butylbenzene	91	10.672	10.666	0.006	97	71718	2.50	2.78	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	98	40802	2.50	2.71	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	74	2446	2.50	1.83	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	93	27010	2.50	2.62	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	96	16176	2.50	2.67	
121 Naphthalene	128	12.290	12.290	0.000	98	57382	2.50	2.54	
122 1,2,3-Trichlorobenzene	180	12.491	12.497	-0.006	93	23799	2.50	2.53	
S 123 Total BTEX	1				0			14.5	
S 124 Xylenes, Total	1				0			5.67	
S 125 1,2-Dichloroethene, Total	1				0			5.38	
S 126 1,3-Dichloropropene, Total	1				0			4.69	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00103	Amount Added:	2.50	Units: uL	
GAS CORP mix_00230	Amount Added:	2.50	Units: uL	
F 8260 SURR_00239	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added:	1.00	Units: uL	Run Reagent

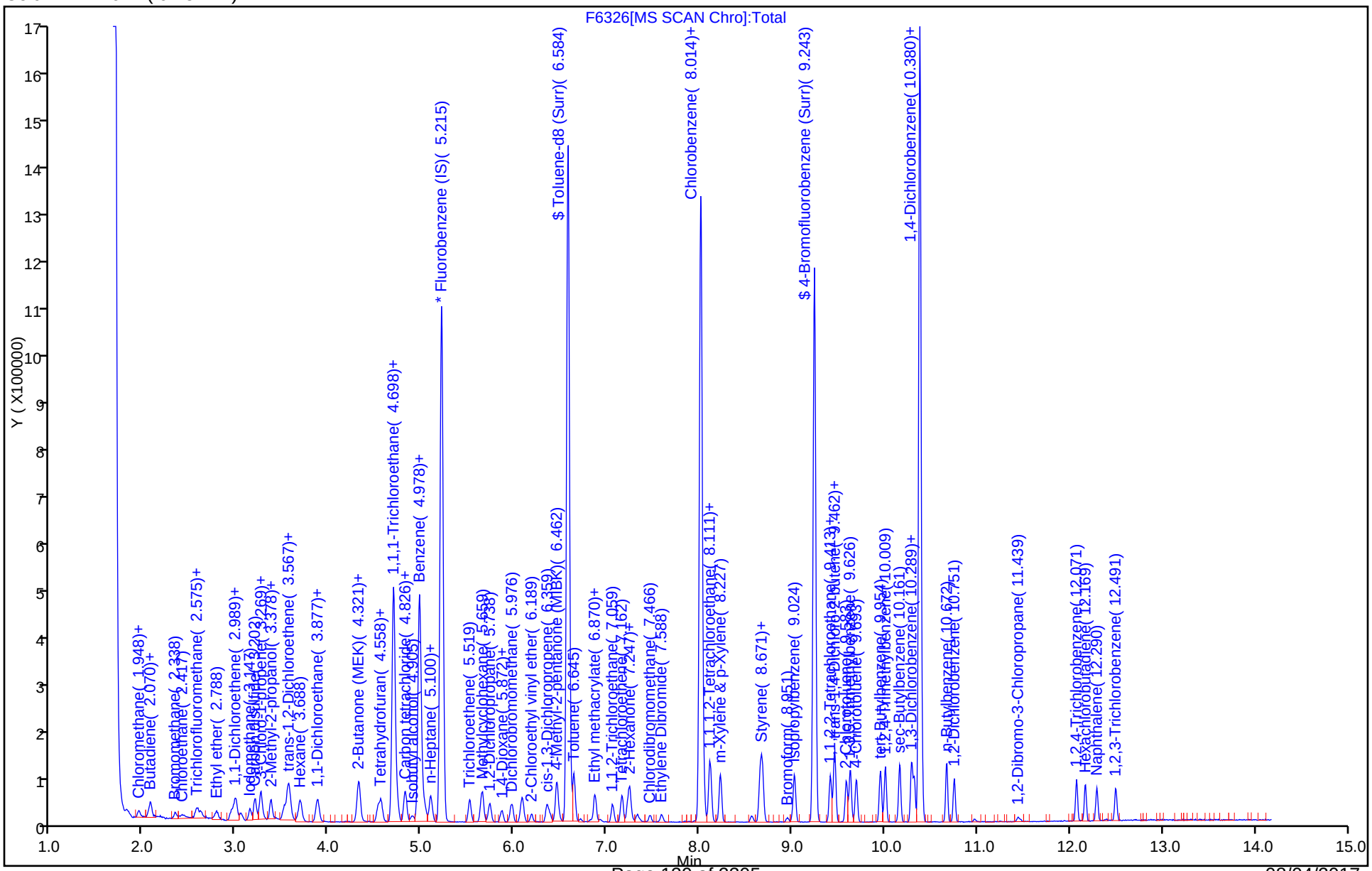
Report Date: 21-Jul-2017 07:11:24 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D

Injection Date:	20-Jul-2017 11:43:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

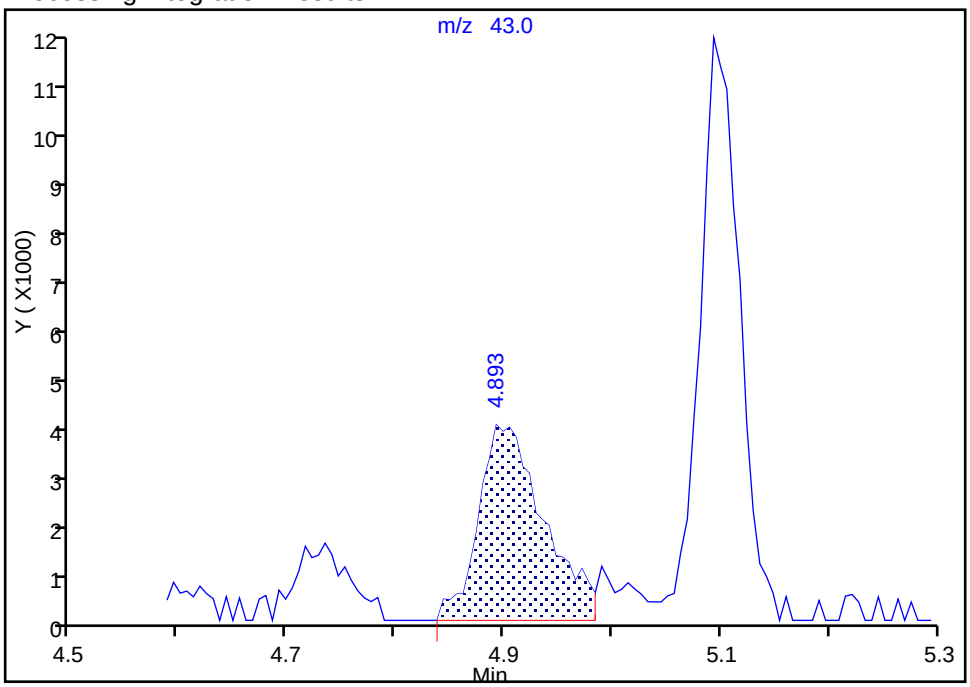
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D
Injection Date: 20-Jul-2017 11:43:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

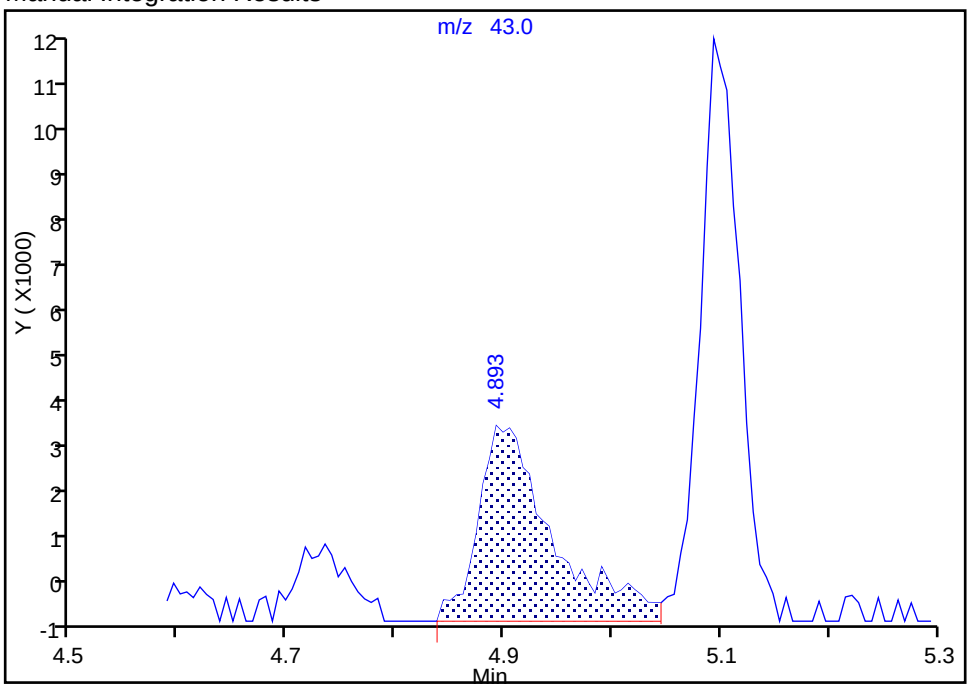
Processing Integration Results

RT: 4.89
Area: 15676
Amount: 55.039193
Amount Units: ug/kg



Manual Integration Results

RT: 4.89
Area: 17812
Amount: 61.484823
Amount Units: ug/kg



Reviewer: cwiklinc, 20-Jul-2017 14:39:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

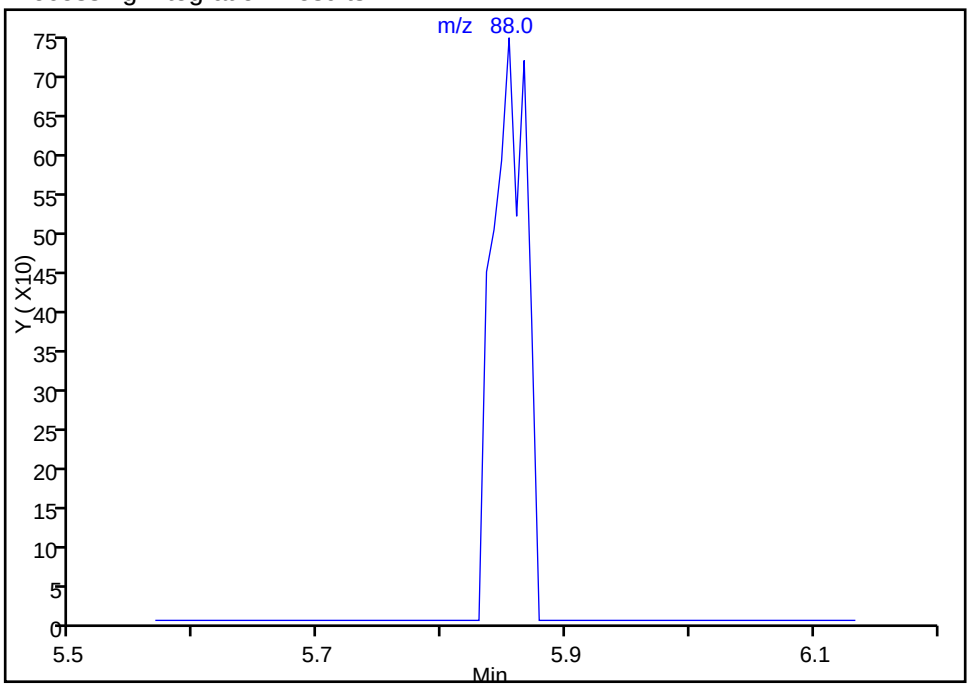
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D
Injection Date: 20-Jul-2017 11:43:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

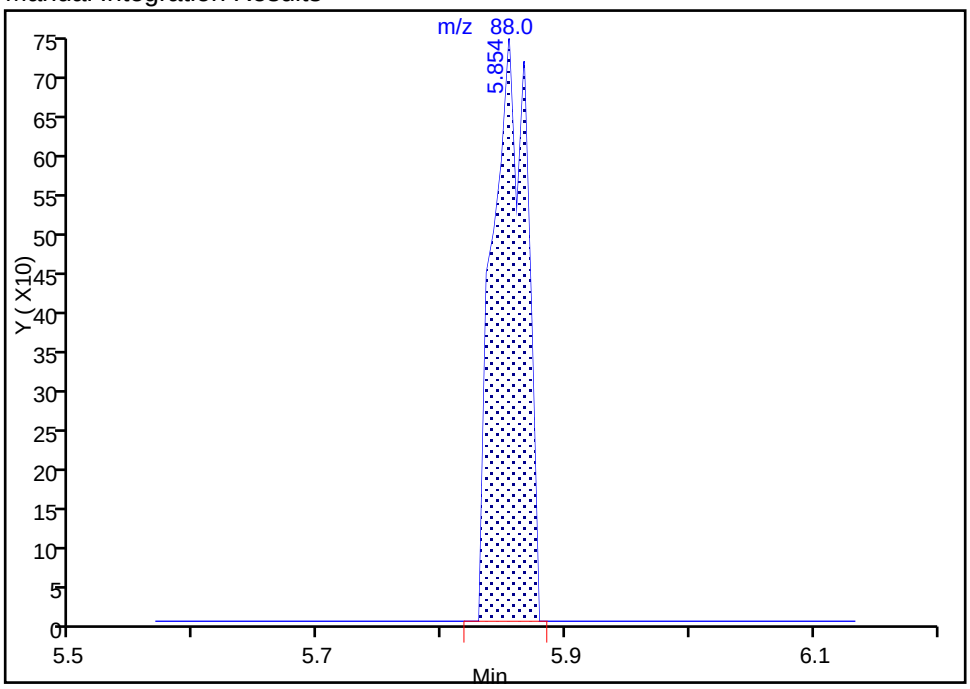
Not Detected
Expected RT: 5.84

Processing Integration Results



Manual Integration Results

RT: 5.85
Area: 1419
Amount: 49.442167
Amount Units: ug/kg



Reviewer: cwiklinc, 20-Jul-2017 14:39:37
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

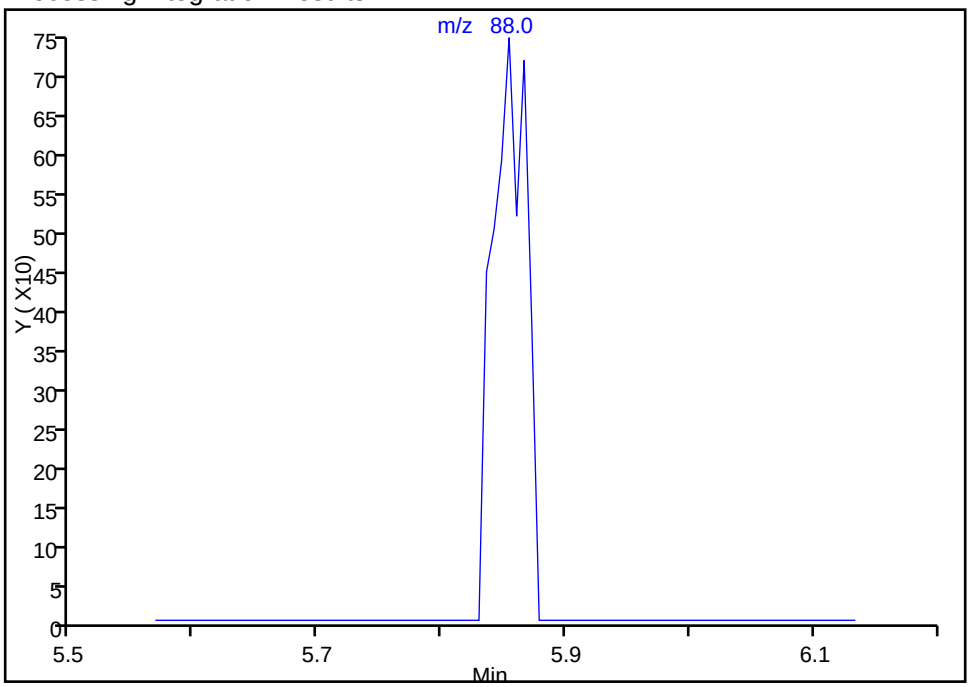
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6326.D
Injection Date: 20-Jul-2017 11:43:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

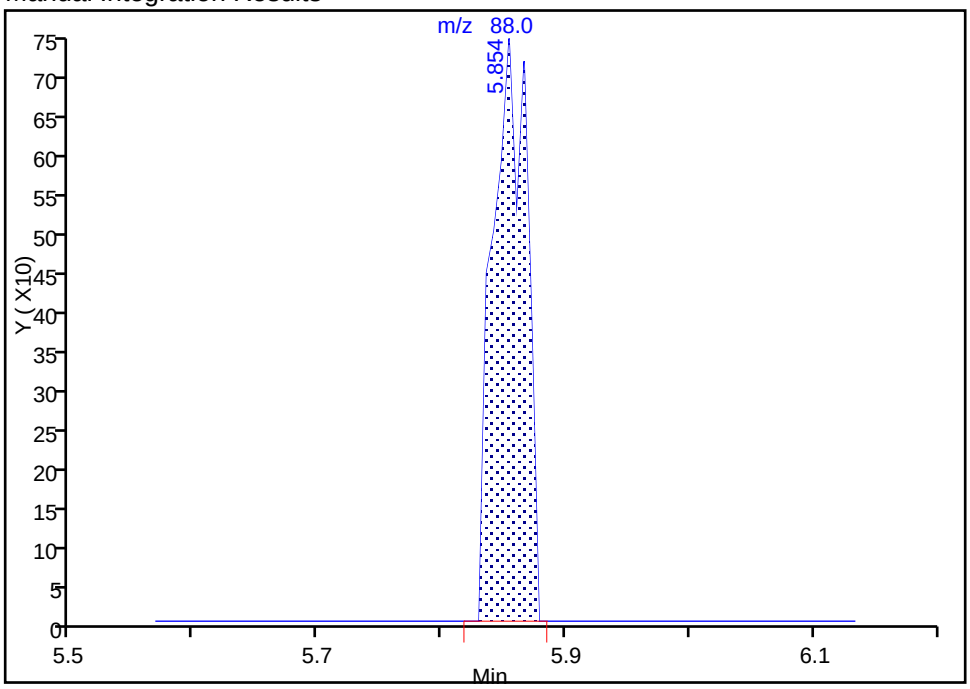
Not Detected
Expected RT: 5.84

Processing Integration Results



Manual Integration Results

RT: 5.85
Area: 1419
Amount: 49.442167
Amount Units: ug/kg



Reviewer: cwiklinc, 20-Jul-2017 14:39:47
Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6327.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jul-2017 12:09:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0064196-005
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:26 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:16:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.209	5.215	-0.006	98	242333	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.013	8.014	-0.001	88	503526	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	491786	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.698	-0.006	93	319194	50.0	50.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	207716	50.0	50.5	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	1167924	50.0	49.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	0.000	92	389165	50.0	48.3	
10 Dichlorodifluoromethane	85	1.820	1.827	-0.007	99	38568	5.00	5.12	
12 Chloromethane	50	1.936	1.954	-0.018	99	34514	5.00	5.46	
13 Vinyl chloride	62	2.046	2.064	-0.018	98	30846	5.00	5.14	
151 Butadiene	54	2.064	2.076	-0.012	88	29166	5.00	5.38	
14 Bromomethane	94	2.319	2.338	-0.019	93	11859	5.00	5.61	
15 Chloroethane	64	2.404	2.417	-0.013	98	14103	5.00	6.01	
16 Dichlorofluoromethane	67	2.557	2.569	-0.012	97	39235	5.00	5.57	
17 Trichlorofluoromethane	101	2.593	2.605	-0.012	97	42359	5.00	5.45	
18 Ethyl ether	59	2.776	2.788	-0.012	88	19995	5.00	5.00	
20 Acrolein	56	2.934	2.934	0.000	99	25426	25.0	25.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.970	-0.006	93	32193	5.00	4.96	
22 1,1-Dichloroethene	96	2.988	2.995	-0.007	95	28261	5.00	4.81	
23 Acetone	43	3.043	3.049	-0.006	99	64131	25.0	29.1	
25 Iodomethane	142	3.141	3.147	-0.006	99	60119	5.00	4.94	
26 Carbon disulfide	76	3.195	3.195	0.000	100	127676	5.00	6.01	
27 Methyl acetate	43	3.256	3.256	0.000	96	112960	25.0	26.3	
28 3-Chloro-1-propene	41	3.256	3.262	-0.006	75	52660	5.00	5.45	
30 Methylene Chloride	84	3.360	3.372	-0.012	89	40319	5.00	4.79	
31 2-Methyl-2-propanol	59	3.426	3.427	-0.001	94	37410	50.0	51.0	
32 Methyl tert-butyl ether	73	3.518	3.518	0.000	95	97766	5.00	4.98	
34 trans-1,2-Dichloroethene	96	3.548	3.554	-0.006	98	34882	5.00	5.18	
33 Acrylonitrile	53	3.566	3.567	-0.001	97	111382	50.0	52.5	
35 Hexane	57	3.682	3.688	-0.006	92	49518	5.00	5.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.858	3.865	-0.007	98	105324	10.0	9.99	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	96	59704	5.00	5.07	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	95	69657	25.0	24.8	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	69	49602	5.00	4.82	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	37435	5.00	5.03	
48 Chlorobromomethane	128	4.522	4.522	0.000	93	18214	5.00	5.15	
49 Tetrahydrofuran	42	4.546	4.546	0.000	53	18159	10.0	10.3	
50 Chloroform	83	4.558	4.558	0.000	94	63146	5.00	5.08	
51 1,1,1-Trichloroethane	97	4.698	4.704	-0.006	95	52846	5.00	4.91	
52 Cyclohexane	56	4.728	4.729	0.000	90	55068	5.00	5.27	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	93	46387	5.00	5.11	
55 Carbon tetrachloride	117	4.832	4.832	0.000	73	36731	5.00	4.47	
53 Isobutyl alcohol	43	4.893	4.887	0.006	93	33664	125.0	117.9	
57 Benzene	78	5.002	5.002	0.000	96	127402	5.00	5.07	
58 1,2-Dichloroethane	62	5.033	5.039	-0.006	95	52909	5.00	5.07	
59 n-Heptane	43	5.093	5.100	-0.007	90	50297	5.00	5.33	
62 Trichloroethene	95	5.519	5.519	0.000	95	34946	5.00	5.00	
64 Methylcyclohexane	83	5.647	5.653	-0.006	90	57382	5.00	4.84	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	92	30688	5.00	4.92	
66 1,4-Dioxane	88	5.860	5.842	0.018	69	4367	100.0	88.4	
67 Dibromomethane	93	5.866	5.866	0.000	96	21196	5.00	4.90	
68 Dichlorobromomethane	83	5.976	5.976	0.000	98	36028	5.00	4.56	
69 2-Chloroethyl vinyl ether	63	6.182	6.189	-0.007	92	17359	5.00	4.76	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	48096	5.00	4.74	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	146175	25.0	25.4	
74 Toluene	92	6.645	6.645	0.000	98	90464	5.00	5.43	
75 Ethyl methacrylate	69	6.870	6.870	0.000	91	37872	5.00	4.68	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	97	40926	5.00	4.39	
79 1,1,2-Trichloroethane	83	7.058	7.065	-0.007	93	23009	5.00	4.87	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	38247	5.00	5.03	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	92	48314	5.00	4.84	
80 2-Hexanone	43	7.253	7.241	0.012	96	106561	25.0	25.6	
83 Chlorodibromomethane	129	7.466	7.466	0.000	91	20297	5.00	5.84	
84 Ethylene Dibromide	107	7.594	7.594	0.000	99	27346	5.00	4.71	
87 Chlorobenzene	112	8.044	8.044	0.000	93	92057	5.00	5.03	
88 Ethylbenzene	91	8.111	8.111	0.000	99	159616	5.00	5.25	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	90	25613	5.00	4.34	
90 m-Xylene & p-Xylene	106	8.226	8.227	-0.001	99	62664	5.00	5.10	
91 o-Xylene	106	8.658	8.658	0.000	97	59554	5.00	4.95	
92 Styrene	104	8.677	8.677	0.000	94	104059	5.00	5.09	
95 Bromoform	173	8.944	8.951	-0.006	93	9976	5.00	6.45	
94 Isopropylbenzene	105	9.023	9.024	-0.001	96	156677	5.00	5.20	
101 Bromobenzene	156	9.413	9.413	0.000	92	41628	5.00	5.08	
97 1,1,2,2-Tetrachloroethane	83	9.407	9.413	-0.006	75	34885	5.00	4.99	
99 N-Propylbenzene	91	9.461	9.455	0.006	98	185477	5.00	5.28	
98 trans-1,4-Dichloro-2-buten	53	9.461	9.455	0.006	41	10873	5.00	5.03	
100 1,2,3-Trichloropropane	110	9.461	9.462	-0.001	52	12440	5.00	5.24	
103 2-Chlorotoluene	126	9.589	9.589	0.000	95	36028	5.00	4.99	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	94	132707	5.00	5.11	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	39427	5.00	5.19	
106 tert-Butylbenzene	134	9.954	9.954	0.000	92	29380	5.00	4.90	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	140625	5.00	5.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	169181	5.00	5.16	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	140952	5.00	5.05	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	81695	5.00	5.17	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	94	80773	5.00	5.07	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	131400	5.00	5.09	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	76614	5.00	5.09	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	77	5533	5.00	4.14	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	93	51068	5.00	4.96	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	96	29420	5.00	4.85	
121 Naphthalene	128	12.290	12.290	0.000	97	111845	5.00	4.95	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	94	45872	5.00	4.87	
S 125 1,2-Dichloroethene, Total	1				0			10.2	
S 126 1,3-Dichloropropene, Total	1				0			9.13	
S 123 Total BTEX	1				0			25.8	
S 124 Xylenes, Total	1				0			10.1	

Reagents:

8260 CORP mix_00103	Amount Added:	5.00	Units: uL	
GAS CORP mix_00230	Amount Added:	5.00	Units: uL	
F 8260 SURR_00239	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added:	1.00	Units: uL	Run Reagent

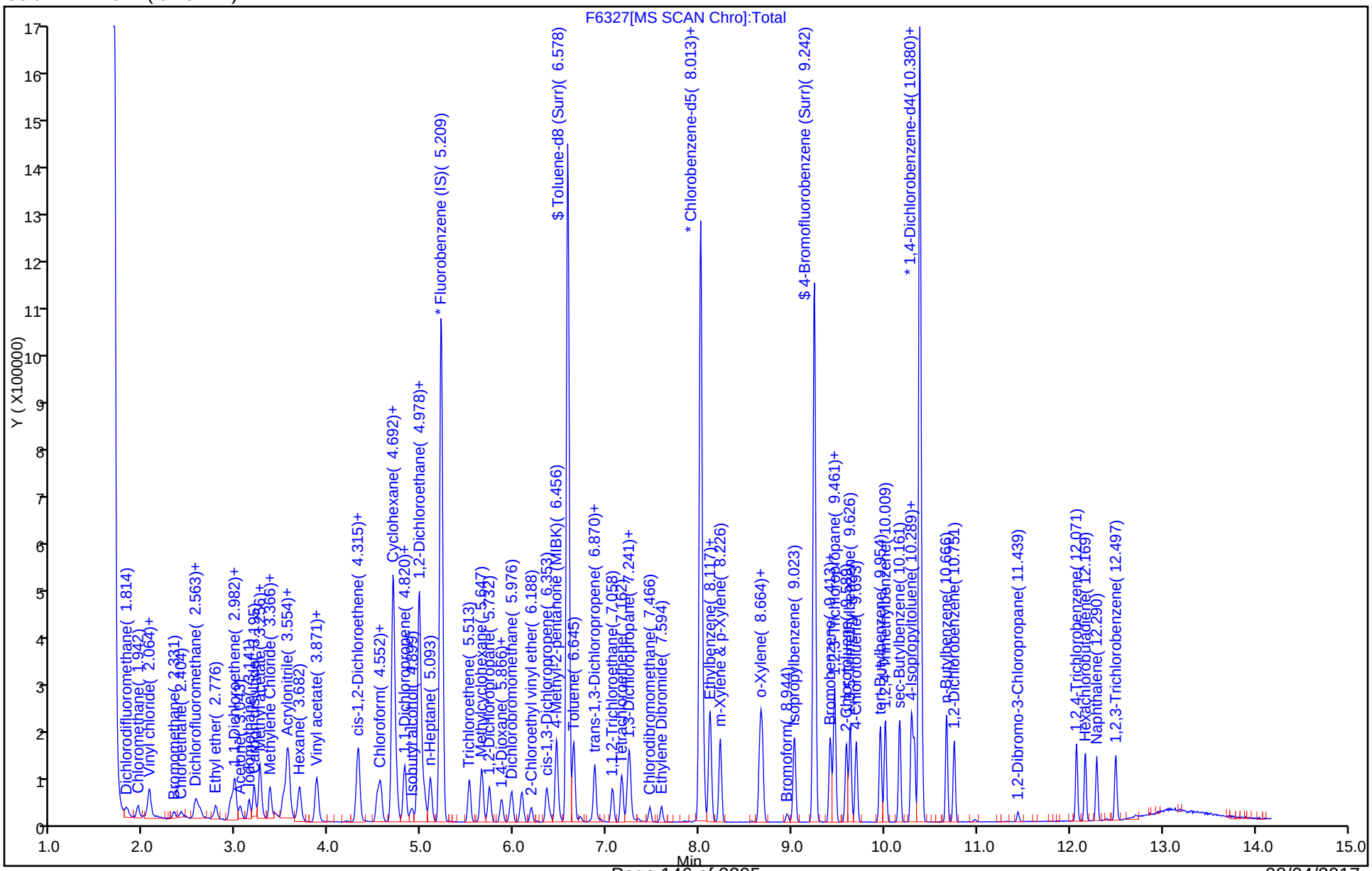
Report Date: 21-Jul-2017 07:11:27 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6327.D

Injection Date:	20-Jul-2017 12:09:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 2			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6328.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Jul-2017 12:34:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0064196-006
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:28 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:55:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	243947	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	87	504037	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	499000	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.698	-0.006	92	319033	50.0	49.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	206878	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	93	1172619	50.0	49.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	89	397567	50.0	49.3	
10 Dichlorodifluoromethane	85	1.814	1.827	-0.013	98	77845	10.0	10.3	
12 Chloromethane	50	1.942	1.954	-0.012	99	65856	10.0	10.4	
13 Vinyl chloride	62	2.052	2.064	-0.012	98	63671	10.0	10.5	
151 Butadiene	54	2.070	2.076	-0.006	93	57097	10.0	10.5	
14 Bromomethane	94	2.326	2.338	-0.012	91	22568	10.0	10.6	
15 Chloroethane	64	2.405	2.417	-0.012	97	19642	10.0	9.00	
16 Dichlorofluoromethane	67	2.563	2.569	-0.006	97	73065	10.0	10.3	
17 Trichlorofluoromethane	101	2.593	2.605	-0.012	97	80778	10.0	10.3	
18 Ethyl ether	59	2.776	2.788	-0.012	90	39616	10.0	9.83	
20 Acrolein	56	2.934	2.934	0.000	97	52261	50.0	51.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.970	-0.006	93	67180	10.0	10.3	
22 1,1-Dichloroethene	96	2.989	2.995	-0.006	97	61418	10.0	10.4	
23 Acetone	43	3.043	3.049	-0.006	99	108751	50.0	49.1	
25 Iodomethane	142	3.141	3.147	-0.006	100	125906	10.0	10.3	
26 Carbon disulfide	76	3.195	3.195	0.000	100	228931	10.0	10.7	
27 Methyl acetate	43	3.262	3.256	0.006	95	216780	50.0	50.1	
28 3-Chloro-1-propene	41	3.256	3.262	-0.006	77	101676	10.0	10.5	
30 Methylene Chloride	84	3.366	3.372	-0.006	92	74824	10.0	10.0	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	91	73099	100.0	98.9	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	94	198768	10.0	10.1	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	97	70303	10.0	10.4	
33 Acrylonitrile	53	3.567	3.567	0.000	98	215024	100.0	100.7	
35 Hexane	57	3.682	3.688	-0.006	93	100119	10.0	10.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	98	213366	20.0	20.1	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	96	120814	10.0	10.2	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	90	107293	10.0	10.4	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	97	144926	50.0	51.3	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	76121	10.0	10.2	
48 Chlorobromomethane	128	4.522	4.522	0.000	93	35175	10.0	9.87	
49 Tetrahydrofuran	42	4.546	4.546	0.000	82	35610	20.0	20.1	
50 Chloroform	83	4.558	4.558	0.000	94	126428	10.0	10.1	
51 1,1,1-Trichloroethane	97	4.698	4.704	-0.006	55	109691	10.0	10.1	
52 Cyclohexane	56	4.729	4.729	0.001	90	108917	10.0	10.4	
54 1,1-Dichloropropene	75	4.814	4.820	-0.006	95	94629	10.0	10.4	
55 Carbon tetrachloride	117	4.826	4.832	-0.006	97	78546	10.0	9.50	
53 Isobutyl alcohol	43	4.899	4.887	0.012	88	67186	250.0	233.8	
57 Benzene	78	5.002	5.002	0.000	95	263571	10.0	10.4	
58 1,2-Dichloroethane	62	5.033	5.039	-0.006	96	104633	10.0	9.95	
59 n-Heptane	43	5.094	5.100	-0.006	88	98499	10.0	10.4	
62 Trichloroethene	95	5.519	5.519	0.000	94	72088	10.0	10.2	
64 Methylcyclohexane	83	5.647	5.653	-0.006	90	123025	10.0	10.3	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	90	62184	10.0	9.91	
66 1,4-Dioxane	88	5.848	5.842	0.006	83	12977	200.0	202.5	
67 Dibromomethane	93	5.860	5.866	-0.006	96	43988	10.0	10.1	
68 Dichlorobromomethane	83	5.976	5.976	0.000	98	75075	10.0	9.43	
69 2-Chloroethyl vinyl ether	63	6.183	6.189	-0.007	94	36326	10.0	9.90	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	98100	10.0	9.60	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	292317	50.0	50.7	
74 Toluene	92	6.645	6.645	0.000	98	170625	10.0	10.2	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	96	89290	10.0	9.58	
75 Ethyl methacrylate	69	6.876	6.870	0.006	89	79191	10.0	9.78	
79 1,1,2-Trichloroethane	83	7.059	7.065	-0.006	93	47365	10.0	10.0	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	76074	10.0	10.0	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	94	98578	10.0	9.87	
80 2-Hexanone	43	7.247	7.241	0.006	95	211612	50.0	50.8	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	44373	10.0	9.45	
84 Ethylene Dibromide	107	7.588	7.594	-0.006	96	56670	10.0	9.75	
87 Chlorobenzene	112	8.044	8.044	0.000	94	184551	10.0	10.1	
88 Ethylbenzene	91	8.111	8.111	0.000	98	319166	10.0	10.5	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	90	53910	10.0	9.12	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	125749	10.0	10.2	
91 o-Xylene	106	8.659	8.658	0.001	95	119941	10.0	9.97	
92 Styrene	104	8.677	8.677	0.000	93	209786	10.0	10.2	
95 Bromoform	173	8.951	8.951	0.001	95	23164	10.0	9.45	
94 Isopropylbenzene	105	9.024	9.024	0.000	96	317727	10.0	10.4	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	74	72052	10.0	10.2	
101 Bromobenzene	156	9.413	9.413	0.000	94	83823	10.0	10.1	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	64	20837	10.0	9.50	
99 N-Propylbenzene	91	9.455	9.455	0.000	98	375418	10.0	10.5	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	85	24094	10.0	10.0	
103 2-Chlorotoluene	126	9.583	9.589	-0.006	96	75216	10.0	10.3	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	93	274822	10.0	10.4	
105 4-Chlorotoluene	126	9.699	9.693	0.006	98	78776	10.0	10.2	
106 tert-Butylbenzene	134	9.948	9.954	-0.006	91	62233	10.0	10.2	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	277170	10.0	10.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	349523	10.0	10.5	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	296347	10.0	10.5	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	162976	10.0	10.2	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.000	95	162620	10.0	10.1	
115 n-Butylbenzene	91	10.672	10.666	0.006	97	278206	10.0	10.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	153047	10.0	10.0	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	80	11772	10.0	8.69	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	105428	10.0	10.1	
120 Hexachlorobutadiene	225	12.163	12.169	-0.006	97	63386	10.0	10.3	
121 Naphthalene	128	12.290	12.290	0.000	97	230027	10.0	10.0	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	97765	10.0	10.2	
S 123 Total BTEX	1				0			51.3	
S 124 Xylenes, Total	1				0			20.2	
S 125 1,2-Dichloroethene, Total	1				0			20.5	
S 126 1,3-Dichloropropene, Total	1				0			19.2	

Reagents:

8260 CORP mix_00103	Amount Added: 10.00	Units: uL	
GAS CORP mix_00230	Amount Added: 10.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

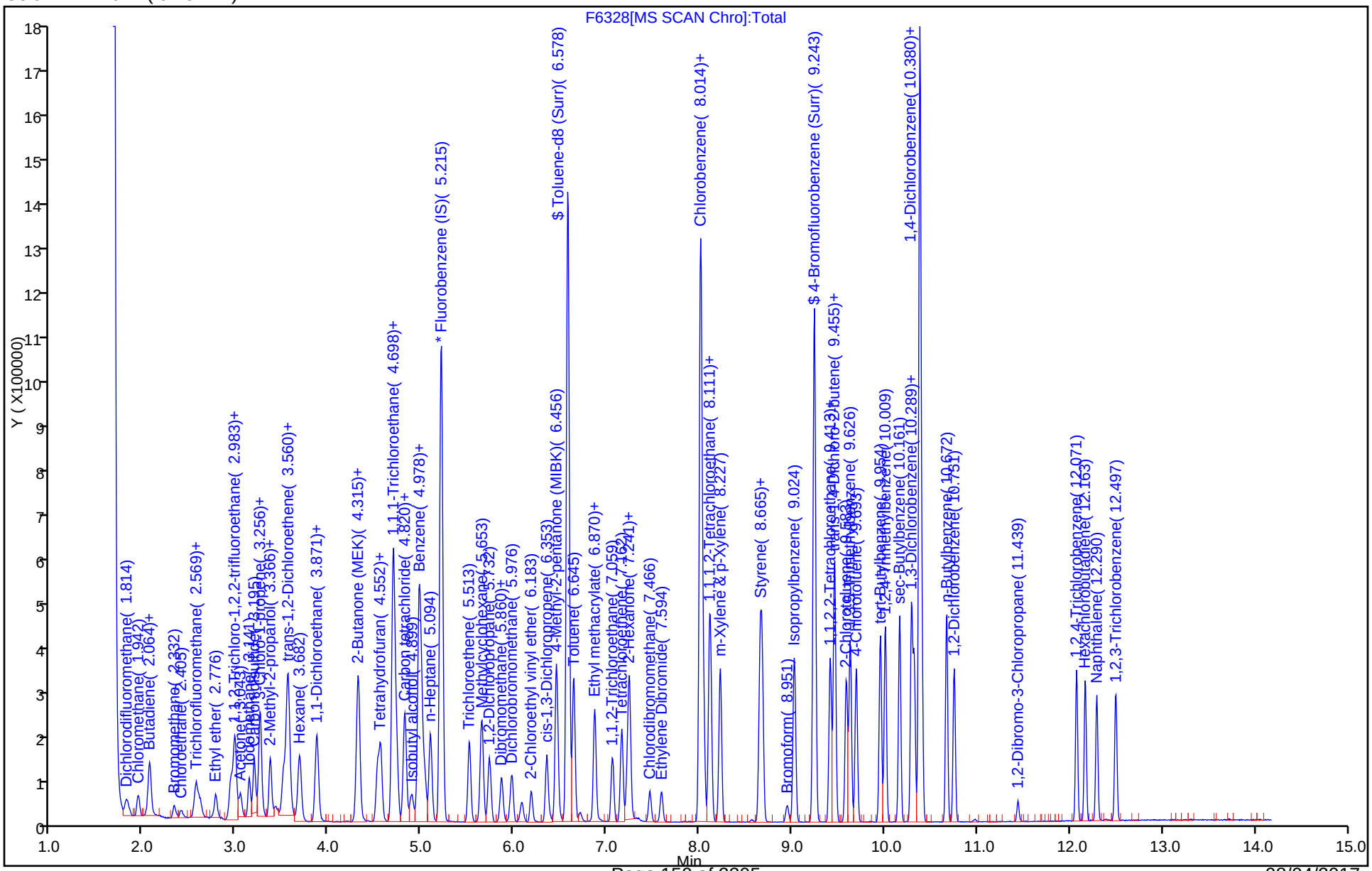
Report Date: 21-Jul-2017 07:11:30 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6328.D

Injection Date:	20-Jul-2017 12:34:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 3			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6329.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jul-2017 13:00:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0064196-007
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:31 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 15:45:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	244845	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	88	501391	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	510993	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	93	323454	50.0	50.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	208278	50.0	50.1	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	93	1189593	50.0	50.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	89	404014	50.0	50.3	
10 Dichlorodifluoromethane	85	1.827	1.827	0.000	99	155081	20.0	20.4	
12 Chloromethane	50	1.954	1.954	0.000	99	127472	20.0	20.0	
13 Vinyl chloride	62	2.064	2.064	0.000	98	122408	20.0	20.2	
151 Butadiene	54	2.076	2.076	0.000	90	110638	20.0	20.2	
14 Bromomethane	94	2.344	2.338	0.006	89	41218	20.0	19.3	
15 Chloroethane	64	2.417	2.417	0.000	98	37981	20.0	19.0	
16 Dichlorofluoromethane	67	2.563	2.569	-0.006	97	139336	20.0	19.6	
17 Trichlorofluoromethane	101	2.599	2.605	-0.006	97	154383	20.0	19.7	
18 Ethyl ether	59	2.788	2.788	0.000	89	85113	20.0	21.0	
20 Acrolein	56	2.940	2.934	0.006	99	100234	100.0	99.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	93	138081	20.0	21.1	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	97	126090	20.0	21.2	
23 Acetone	43	3.049	3.049	0.000	99	228705	100.0	102.8	
25 Iodomethane	142	3.147	3.147	0.000	99	251515	20.0	20.5	
26 Carbon disulfide	76	3.202	3.195	0.007	99	440604	20.0	20.5	
27 Methyl acetate	43	3.262	3.256	0.006	95	432895	100.0	99.7	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	77	204336	20.0	20.9	
30 Methylene Chloride	84	3.372	3.372	0.000	91	147807	20.0	21.1	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	99	144732	200.0	195.1	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	95	408164	20.0	20.6	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	97	139110	20.0	20.4	
33 Acrylonitrile	53	3.573	3.567	0.006	99	434187	200.0	202.6	
35 Hexane	57	3.688	3.688	0.000	92	203396	20.0	21.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	97	441380	40.0	41.4	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	97	245036	20.0	20.6	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	98	287478	100.0	101.4	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	78	214283	20.0	20.6	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	83	155990	20.0	20.7	
48 Chlorobromomethane	128	4.528	4.522	0.006	95	73027	20.0	20.4	
49 Tetrahydrofuran	42	4.546	4.546	0.000	85	69477	40.0	39.0	
50 Chloroform	83	4.564	4.558	0.006	94	256544	20.0	20.4	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	97	220696	20.0	20.3	
52 Cyclohexane	56	4.735	4.729	0.007	90	221619	20.0	21.0	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	95	190958	20.0	20.8	
55 Carbon tetrachloride	117	4.832	4.832	0.000	96	164876	20.0	19.9	
53 Isobutyl alcohol	43	4.899	4.887	0.012	93	140420	500.0	486.8	
57 Benzene	78	5.002	5.002	0.000	97	520586	20.0	20.5	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	97	215143	20.0	20.4	
59 n-Heptane	43	5.100	5.100	0.000	90	204161	20.0	21.4	
62 Trichloroethene	95	5.519	5.519	0.000	95	143085	20.0	20.2	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	245784	20.0	20.5	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	91	130413	20.0	20.7	
66 1,4-Dioxane	88	5.842	5.842	0.000	91	29534	400.0	423.9	
67 Dibromomethane	93	5.866	5.866	0.000	94	89319	20.0	20.4	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	163947	20.0	20.5	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	93	73434	20.0	19.9	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	208493	20.0	20.3	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	587035	100.0	102.4	
74 Toluene	92	6.645	6.645	0.000	98	342202	20.0	20.6	
75 Ethyl methacrylate	69	6.876	6.870	0.006	87	166076	20.0	20.6	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	98	192671	20.0	20.8	
79 1,1,2-Trichloroethane	83	7.059	7.065	-0.007	93	96346	20.0	20.5	
81 Tetrachloroethene	166	7.162	7.162	0.000	97	154343	20.0	20.4	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	97	205342	20.0	20.7	
80 2-Hexanone	43	7.247	7.241	0.006	96	422631	100.0	102.0	
83 Chlorodibromomethane	129	7.466	7.466	0.000	88	104294	20.0	18.5	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	117915	20.0	20.4	
87 Chlorobenzene	112	8.044	8.044	0.000	94	374264	20.0	20.5	
88 Ethylbenzene	91	8.111	8.111	0.000	98	642538	20.0	21.2	
89 1,1,1,2-Tetrachloroethane	131	8.129	8.123	0.006	89	119732	20.0	20.4	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	252446	20.0	20.6	
91 o-Xylene	106	8.658	8.658	0.000	97	246824	20.0	20.6	
92 Styrene	104	8.677	8.677	0.000	94	426796	20.0	20.9	
95 Bromoform	173	8.951	8.951	0.000	95	55168	20.0	16.8	
94 Isopropylbenzene	105	9.024	9.024	0.000	96	643751	20.0	20.6	
101 Bromobenzene	156	9.413	9.413	0.000	93	173816	20.0	20.4	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	81	147285	20.0	20.3	
99 N-Propylbenzene	91	9.455	9.455	0.000	99	758597	20.0	20.8	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	60	44694	20.0	19.9	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	87	48977	20.0	19.8	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	151537	20.0	20.2	
102 1,3,5-Trimethylbenzene	105	9.632	9.626	0.006	93	558408	20.0	20.7	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	159413	20.0	20.2	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	125676	20.0	20.2	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	569033	20.0	20.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	704913	20.0	20.7	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	597373	20.0	20.6	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	332702	20.0	20.3	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	95	337831	20.0	20.4	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	553836	20.0	20.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	317727	20.0	20.3	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	80	25376	20.0	18.3	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	218779	20.0	20.5	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	98	127165	20.0	20.2	
121 Naphthalene	128	12.290	12.290	0.000	97	482362	20.0	20.5	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	201808	20.0	20.6	
S 125 1,2-Dichloroethene, Total	1				0			41.2	
S 126 1,3-Dichloropropene, Total	1				0			41.1	
S 123 Total BTEX	1				0			103.6	
S 124 Xylenes, Total	1				0			41.3	

Reagents:

8260 CORP mix_00103	Amount Added: 10.00	Units: uL		
GAS CORP mix_00230	Amount Added: 10.00	Units: uL		
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent	
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent	

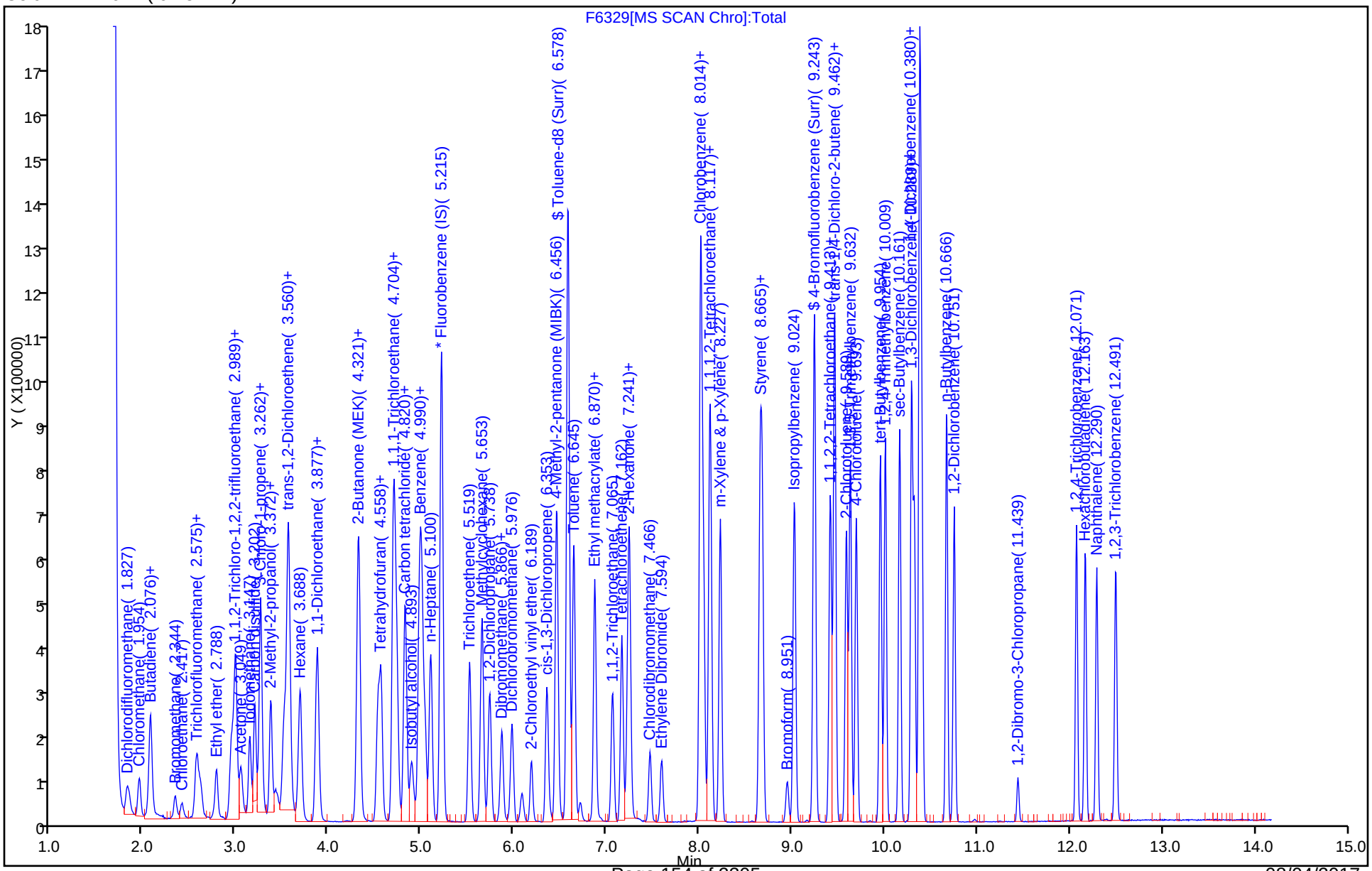
Report Date: 21-Jul-2017 07:11:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6329.D

Injection Date:	20-Jul-2017 13:00:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 4			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6330.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 20-Jul-2017 13:25:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0064196-008
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:34 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:15:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	249699	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	86	513779	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	76	521772	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	71	328709	50.0	50.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	213748	50.0	50.4	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	92	1202239	50.0	49.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.000	89	411389	50.0	50.0	
10 Dichlorodifluoromethane	85	1.827	1.827	0.000	87	381744	50.0	49.2	
12 Chloromethane	50	1.954	1.954	0.000	89	311413	50.0	47.8	
13 Vinyl chloride	62	2.064	2.064	0.000	82	301611	50.0	48.7	
151 Butadiene	54	2.076	2.076	0.000	63	265865	50.0	47.6	
14 Bromomethane	94	2.338	2.338	0.000	90	101419	50.0	46.6	
15 Chloroethane	64	2.417	2.417	0.000	94	94116	50.0	48.7	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	82	337337	50.0	46.5	
17 Trichlorofluoromethane	101	2.605	2.605	0.000	87	378988	50.0	47.4	
18 Ethyl ether	59	2.788	2.788	0.000	88	209421	50.0	50.8	
20 Acrolein	56	2.934	2.934	0.000	94	260409	250.0	252.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	86	330615	50.0	49.4	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	90	299491	50.0	49.5	
23 Acetone	43	3.049	3.049	0.000	99	577992	250.0	254.8	
25 Iodomethane	142	3.147	3.147	0.000	99	616313	50.0	49.2	
26 Carbon disulfide	76	3.195	3.195	0.000	99	1035466	50.0	47.3	
27 Methyl acetate	43	3.256	3.256	0.000	90	1149993	250.0	259.6	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	47	488969	50.0	49.1	
30 Methylene Chloride	84	3.372	3.372	0.000	80	360148	50.0	52.3	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	96	414273	500.0	547.6	
32 Methyl tert-butyl ether	73	3.518	3.518	0.000	85	1047101	50.0	51.8	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	77	338014	50.0	48.7	
33 Acrylonitrile	53	3.567	3.567	0.000	97	1141954	500.0	522.6	
35 Hexane	57	3.688	3.688	0.000	89	492855	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	97	1136990	100.0	104.6	
39 1,1-Dichloroethane	63	3.877	3.877	0.000	71	597370	50.0	49.2	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	67	533678	50.0	50.3	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	97	792178	250.0	274.0	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	72	384257	50.0	50.1	
48 Chlorobromomethane	128	4.522	4.522	0.000	89	184333	50.0	50.6	
49 Tetrahydrofuran	42	4.546	4.546	0.000	68	194222	100.0	107.0	
50 Chloroform	83	4.558	4.558	0.000	80	627303	50.0	49.0	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	90	553979	50.0	50.0	
52 Cyclohexane	56	4.729	4.729	0.000	88	531715	50.0	49.4	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	91	467658	50.0	50.0	
55 Carbon tetrachloride	117	4.832	4.832	0.000	68	441092	50.0	52.1	
53 Isobutyl alcohol	43	4.887	4.887	0.000	69	412434	1250.0	1402.1	
57 Benzene	78	5.002	5.002	0.000	96	1278496	50.0	49.4	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	87	539467	50.0	50.1	
59 n-Heptane	43	5.100	5.100	0.000	88	478499	50.0	49.2	
62 Trichloroethene	95	5.519	5.519	0.000	90	355378	50.0	49.3	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	602359	50.0	49.3	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	86	320235	50.0	49.9	
66 1,4-Dioxane	88	5.842	5.842	0.000	60	81171	1000.0	1085.7	
67 Dibromomethane	93	5.866	5.866	0.000	91	226152	50.0	50.8	
68 Dichlorobromomethane	83	5.976	5.976	0.000	93	428742	50.0	52.6	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	92	198370	50.0	52.8	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	89	553054	50.0	52.9	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1579381	250.0	268.8	
74 Toluene	92	6.645	6.645	0.000	93	835846	50.0	49.2	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	90	507270	50.0	53.4	
75 Ethyl methacrylate	69	6.870	6.870	0.000	75	437086	50.0	53.0	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	88	245609	50.0	51.0	
81 Tetrachloroethene	166	7.162	7.162	0.000	90	385945	50.0	49.8	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	91	516543	50.0	50.7	
80 2-Hexanone	43	7.241	7.241	0.000	92	1154083	250.0	271.9	
83 Chlorodibromomethane	129	7.466	7.466	0.000	87	302519	50.0	47.4	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	303332	50.0	51.2	
87 Chlorobenzene	112	8.044	8.044	0.000	93	918308	50.0	49.2	
88 Ethylbenzene	91	8.111	8.111	0.000	57	1560076	50.0	50.3	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	44	325999	50.0	54.1	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	629311	50.0	50.2	
91 o-Xylene	106	8.658	8.658	0.000	93	610756	50.0	49.8	
92 Styrene	104	8.677	8.677	0.000	93	1049534	50.0	50.3	
95 Bromoform	173	8.951	8.951	0.000	96	181803	50.0	44.8	
94 Isopropylbenzene	105	9.024	9.024	0.000	96	1571829	50.0	49.2	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	69	390962	50.0	52.7	
101 Bromobenzene	156	9.413	9.413	0.000	92	434307	50.0	50.0	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	22	124745	50.0	54.4	
99 N-Propylbenzene	91	9.455	9.455	0.000	98	1842824	50.0	49.4	
100 1,2,3-Trichloropropane	110	9.462	9.462	0.000	20	129969	50.0	51.6	
103 2-Chlorotoluene	126	9.589	9.589	0.000	95	379075	50.0	49.5	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	73	1358965	50.0	49.3	
105 4-Chlorotoluene	126	9.693	9.693	0.000	81	398034	50.0	49.4	
106 tert-Butylbenzene	134	9.954	9.954	0.000	89	314436	50.0	49.4	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	42	1413205	50.0	49.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1726572	50.0	49.6	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	1481738	50.0	50.1	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	828372	50.0	49.4	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	94	837772	50.0	49.5	
115 n-Butylbenzene	91	10.666	10.666	0.000	94	1364825	50.0	49.8	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	796831	50.0	49.9	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	76	79527	50.0	56.1	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	93	544554	50.0	49.9	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	94	321237	50.0	49.9	
121 Naphthalene	128	12.290	12.290	0.000	97	1256929	50.0	52.4	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	92	506579	50.0	50.7	

Reagents:

8260 CORP mix_00103	Amount Added: 25.00	Units: uL	
GAS CORP mix_00230	Amount Added: 25.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

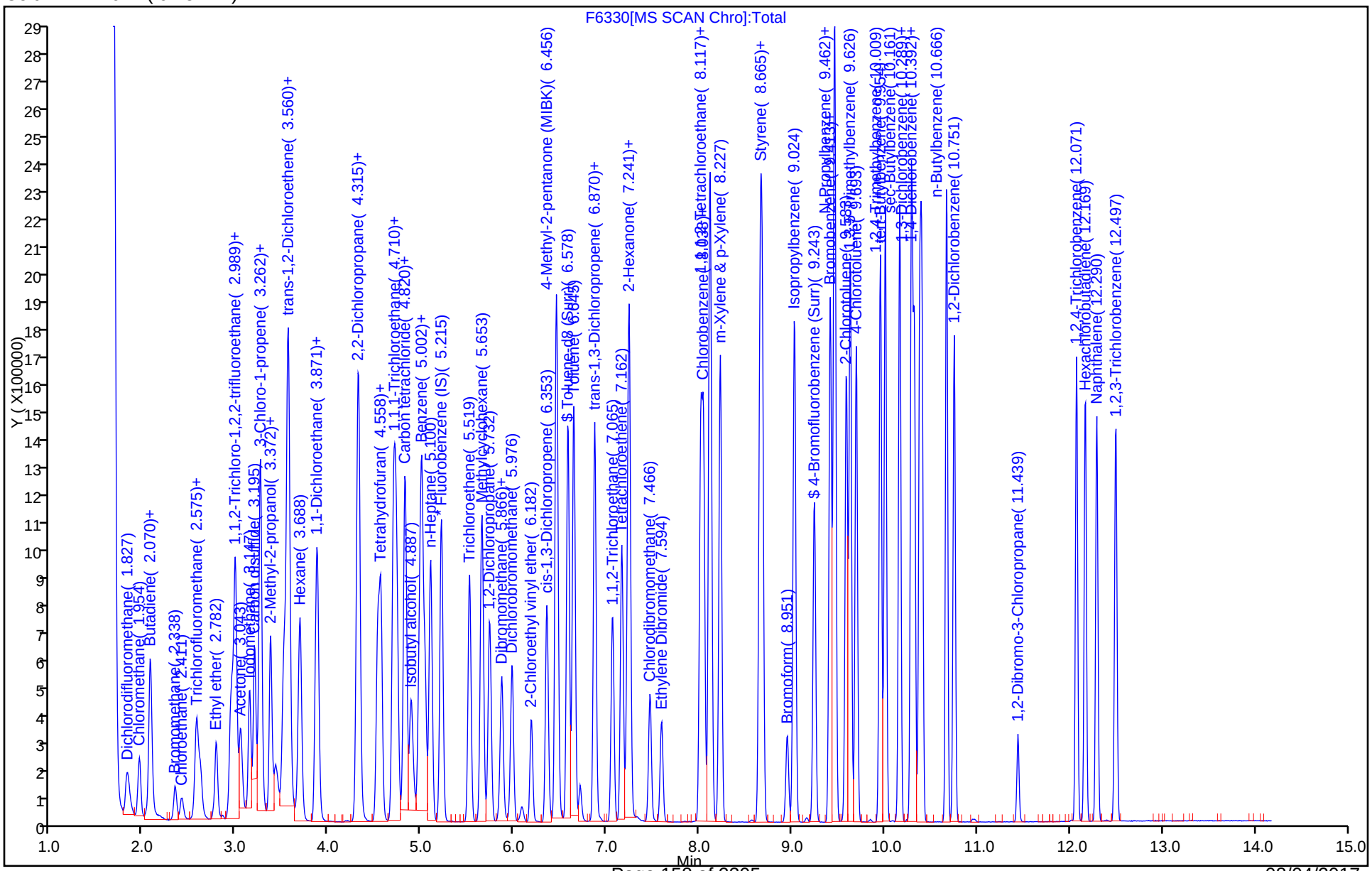
Report Date: 21-Jul-2017 07:11:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6330.D

Injection Date:	20-Jul-2017 13:25:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	ICIS 5			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6331.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Jul-2017 13:50:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0064196-009
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:36 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 14:23:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.209	5.215	-0.006	98	249261	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	86	509807	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	529068	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.698	-0.006	91	329921	50.0	50.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.972	4.978	-0.006	0	213309	50.0	50.4	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	93	1219264	50.0	50.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	90	416905	50.0	51.1	
10 Dichlorodifluoromethane	85	1.815	1.827	-0.012	99	741873	100.0	95.8	
12 Chloromethane	50	1.948	1.954	-0.006	99	605870	100.0	93.2	
13 Vinyl chloride	62	2.058	2.064	-0.006	98	591393	100.0	95.7	
151 Butadiene	54	2.070	2.076	-0.006	90	512635	100.0	92.0	
14 Bromomethane	94	2.338	2.338	0.000	92	208645	100.0	96.0	
15 Chloroethane	64	2.405	2.417	-0.012	99	191114	100.0	100.9	
16 Dichlorofluoromethane	67	2.563	2.569	-0.006	97	671368	100.0	92.6	
17 Trichlorofluoromethane	101	2.593	2.605	-0.012	95	756204	100.0	94.7	
18 Ethyl ether	59	2.776	2.788	-0.012	89	389861	100.0	94.7	
20 Acrolein	56	2.928	2.934	-0.006	100	487499	500.0	473.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.970	-0.006	92	639325	100.0	95.8	
22 1,1-Dichloroethene	96	2.989	2.995	-0.006	97	581513	100.0	96.2	
23 Acetone	43	3.037	3.049	-0.012	99	1039731	500.0	459.1	
25 Iodomethane	142	3.141	3.147	-0.006	100	1203737	100.0	96.2	
26 Carbon disulfide	76	3.189	3.195	-0.006	100	1970515	100.0	90.2	
27 Methyl acetate	43	3.250	3.256	-0.006	96	2104286	500.0	475.9	
28 3-Chloro-1-propene	41	3.256	3.262	-0.006	85	940884	100.0	94.7	
30 Methylene Chloride	84	3.366	3.372	-0.006	91	687823	100.0	101.3	
31 2-Methyl-2-propanol	59	3.421	3.427	-0.006	100	764786	1000.0	1012.7	
32 Methyl tert-butyl ether	73	3.512	3.518	-0.006	94	1980070	100.0	98.1	
34 trans-1,2-Dichloroethene	96	3.548	3.554	-0.006	98	655195	100.0	94.6	
33 Acrylonitrile	53	3.561	3.567	-0.006	97	2077609	1000.0	952.4	
35 Hexane	57	3.682	3.688	-0.006	92	947060	100.0	96.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.859	3.865	-0.006	97	2136567	200.0	197.0	
39 1,1-Dichloroethane	63	3.871	3.877	-0.006	96	1157813	100.0	95.5	
43 2-Butanone (MEK)	43	4.309	4.309	0.000	97	1447892	500.0	501.6	
44 2,2-Dichloropropane	77	4.309	4.309	0.000	69	1043497	100.0	98.6	
45 cis-1,2-Dichloroethene	96	4.321	4.321	0.000	82	736608	100.0	96.2	
48 Chlorobromomethane	128	4.522	4.522	0.000	93	361526	100.0	99.3	
49 Tetrahydrofuran	42	4.540	4.546	-0.006	84	361624	200.0	199.6	
50 Chloroform	83	4.558	4.558	0.000	94	1230364	100.0	96.3	
51 1,1,1-Trichloroethane	97	4.698	4.704	-0.006	98	1100104	100.0	99.4	
52 Cyclohexane	56	4.722	4.729	-0.006	89	1034557	100.0	96.3	
54 1,1-Dichloropropene	75	4.814	4.820	-0.006	96	912737	100.0	97.8	
55 Carbon tetrachloride	117	4.826	4.832	-0.006	98	913747	100.0	108.1	
53 Isobutyl alcohol	43	4.887	4.887	0.000	94	763740	2500.0	2600.9	
57 Benzene	78	5.002	5.002	0.000	96	2453615	100.0	94.9	
58 1,2-Dichloroethane	62	5.033	5.039	-0.006	98	1032689	100.0	96.1	
59 n-Heptane	43	5.094	5.100	-0.006	89	923082	100.0	95.1	
62 Trichloroethene	95	5.513	5.519	-0.006	95	695074	100.0	96.6	
64 Methylcyclohexane	83	5.647	5.653	-0.006	89	1168368	100.0	95.8	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	91	630179	100.0	98.3	
66 1,4-Dioxane	88	5.836	5.842	-0.006	94	148459	2000.0	1975.4	
67 Dibromomethane	93	5.860	5.866	-0.006	95	442414	100.0	99.5	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	885133	100.0	108.8	
69 2-Chloroethyl vinyl ether	63	6.183	6.189	-0.006	94	380764	100.0	101.6	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	1096527	100.0	105.0	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	94	2849063	500.0	488.6	
74 Toluene	92	6.645	6.645	0.000	99	1616962	100.0	95.9	
75 Ethyl methacrylate	69	6.870	6.870	0.000	87	845847	100.0	103.3	
77 trans-1,3-Dichloropropene	75	6.864	6.870	-0.006	95	1015861	100.0	107.7	
79 1,1,2-Trichloroethane	83	7.059	7.065	-0.006	93	476634	100.0	99.7	
81 Tetrachloroethene	166	7.162	7.162	0.000	96	746479	100.0	97.0	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	97	986490	100.0	97.7	
80 2-Hexanone	43	7.241	7.241	0.000	94	2083553	500.0	494.7	
83 Chlorodibromomethane	129	7.466	7.466	0.000	90	647861	100.0	99.0	
84 Ethylene Dibromide	107	7.588	7.594	-0.006	98	604203	100.0	102.7	
87 Chlorobenzene	112	8.044	8.044	0.000	97	1790763	100.0	96.7	
88 Ethylbenzene	91	8.111	8.111	0.000	98	2965117	100.0	96.3	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	92	668575	100.0	111.8	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	99	1220088	100.0	98.1	
91 o-Xylene	106	8.652	8.658	-0.006	97	1176909	100.0	96.7	
92 Styrene	104	8.677	8.677	0.000	94	2027015	100.0	97.8	
95 Bromoform	173	8.951	8.951	0.001	96	418708	100.0	98.5	
94 Isopropylbenzene	105	9.024	9.024	0.000	97	3041683	100.0	93.8	
101 Bromobenzene	156	9.413	9.413	0.000	92	846905	100.0	96.1	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	76	738707	100.0	98.2	
99 N-Propylbenzene	91	9.462	9.455	0.007	98	3437834	100.0	90.9	
98 trans-1,4-Dichloro-2-buten	53	9.456	9.455	0.001	58	242562	100.0	104.3	
100 1,2,3-Trichloropropane	110	9.468	9.462	0.006	83	242618	100.0	94.9	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	744807	100.0	95.9	
102 1,3,5-Trimethylbenzene	105	9.626	9.626	0.000	94	2617115	100.0	93.6	
105 4-Chlorotoluene	126	9.693	9.693	0.000	98	771222	100.0	94.3	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	621466	100.0	96.3	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	2686903	100.0	93.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	3283091	100.0	93.1	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	2836916	100.0	94.5	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	1618609	100.0	95.2	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.001	95	1635606	100.0	95.4	
115 n-Butylbenzene	91	10.666	10.666	0.000	97	2592397	100.0	93.3	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	1547381	100.0	95.6	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	83	161337	100.0	112.3	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	95	1083264	100.0	97.8	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	97	634166	100.0	97.2	
121 Naphthalene	128	12.290	12.290	0.000	97	2424395	100.0	99.6	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	997367	100.0	98.5	
S 125 1,2-Dichloroethene, Total	1				0			190.8	
S 126 1,3-Dichloropropene, Total	1				0			212.7	
S 123 Total BTEX	1				0			481.9	
S 124 Xylenes, Total	1				0			194.8	

Reagents:

8260 CORP mix_00103	Amount Added: 50.00	Units: uL		
GAS CORP mix_00230	Amount Added: 50.00	Units: uL		
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent	
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent	

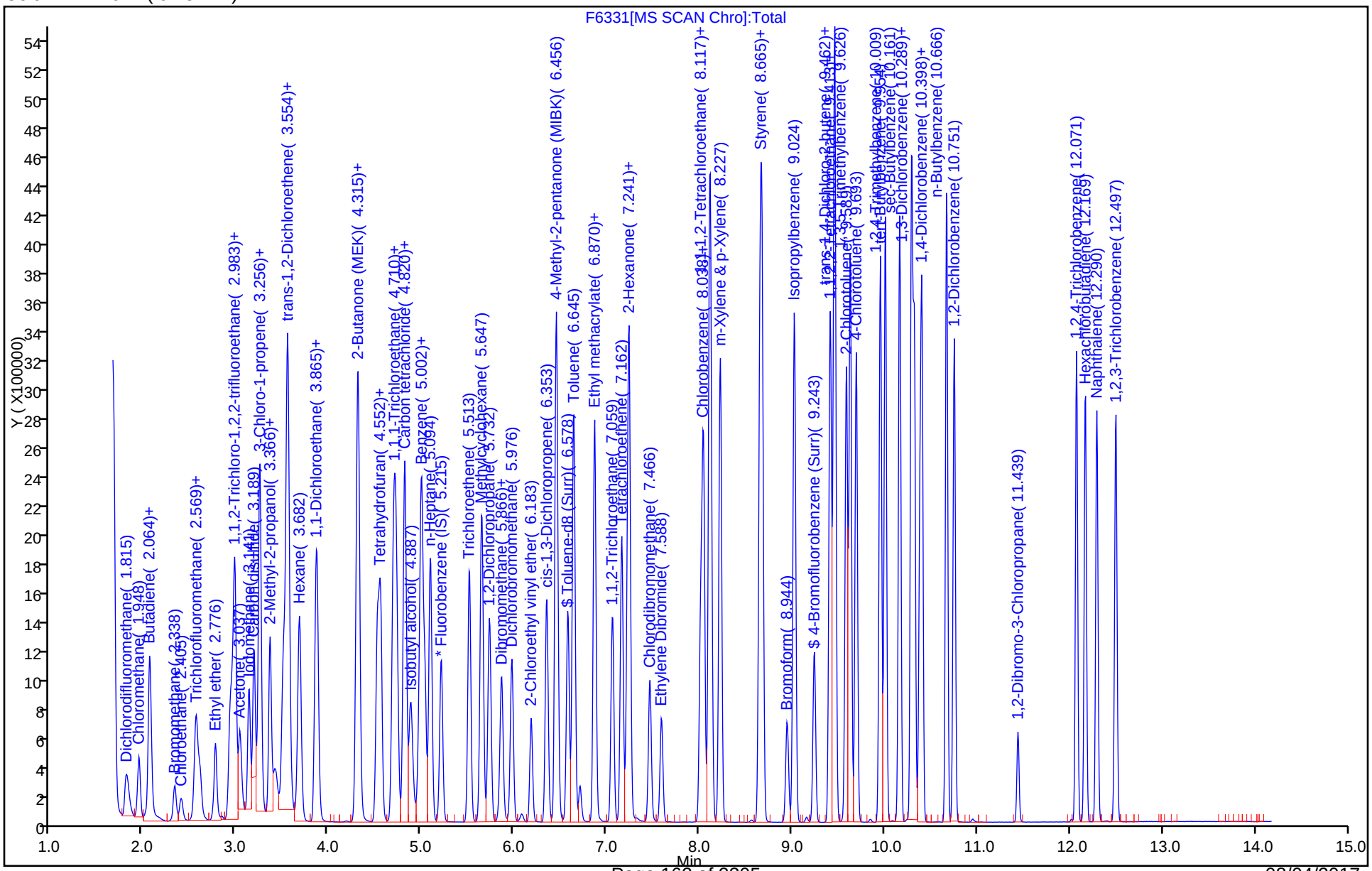
Report Date: 21-Jul-2017 07:11:37 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6331.D

Injection Date:	20-Jul-2017 13:50:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 6			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6332.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Jul-2017 14:16:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0064196-010
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jul-2017 07:11:38 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: cwiklinc Date: 20-Jul-2017 15:48:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	251997	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	86	509428	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	525416	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	92	331206	50.0	50.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	210382	50.0	49.1	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	93	1239779	50.0	51.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.243	0.001	95	420445	50.0	51.6	
10 Dichlorodifluoromethane	85	1.833	1.827	0.006	99	1429613	200.0	182.7	
12 Chloromethane	50	1.967	1.954	0.013	99	1165843	200.0	177.4	
13 Vinyl chloride	62	2.076	2.064	0.012	98	1133626	200.0	181.5	
151 Butadiene	54	2.088	2.076	0.012	93	1001545	200.0	177.7	
14 Bromomethane	94	2.350	2.338	0.012	93	421995	200.0	192.0	
15 Chloroethane	64	2.417	2.417	0.000	99	382631	200.0	201.5	
16 Dichlorofluoromethane	67	2.575	2.569	0.006	97	1333487	200.0	182.0	
17 Trichlorofluoromethane	101	2.611	2.605	0.006	99	1501188	200.0	185.9	
18 Ethyl ether	59	2.788	2.788	0.000	89	783815	200.0	188.3	
20 Acrolein	56	2.940	2.934	0.006	99	932528	1000.0	896.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	92	1266344	200.0	187.6	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	98	1131484	200.0	185.1	
23 Acetone	43	3.049	3.049	0.000	100	2033994	1000.0	888.4	
25 Iodomethane	142	3.147	3.147	0.000	99	2337632	200.0	184.8	
26 Carbon disulfide	76	3.202	3.195	0.007	100	3764285	200.0	170.4	
27 Methyl acetate	43	3.262	3.256	0.006	96	3908178	1000.0	874.2	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	87	1783697	200.0	177.6	
30 Methylene Chloride	84	3.372	3.372	0.000	90	1335054	200.0	195.7	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	99	1505047	2000.0	1971.3	
32 Methyl tert-butyl ether	73	3.524	3.518	0.006	94	3826867	200.0	187.6	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	99	1252613	200.0	178.9	
33 Acrylonitrile	53	3.567	3.567	0.000	97	3883165	2000.0	1760.7	
35 Hexane	57	3.688	3.688	0.000	92	1810080	200.0	182.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	97	4046103	400.0	368.9	
39 1,1-Dichloroethane	63	3.883	3.877	0.006	96	2235335	200.0	182.4	
44 2,2-Dichloropropane	77	4.315	4.309	0.006	87	2017030	200.0	188.4	
43 2-Butanone (MEK)	43	4.315	4.309	0.006	98	2697481	1000.0	924.4	
45 cis-1,2-Dichloroethene	96	4.327	4.321	0.006	82	1420670	200.0	183.5	
48 Chlorobromomethane	128	4.528	4.522	0.006	91	710828	200.0	193.2	
49 Tetrahydrofuran	42	4.540	4.546	-0.006	84	681039	400.0	371.8	
50 Chloroform	83	4.564	4.558	0.006	94	2374185	200.0	183.8	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	2150762	200.0	192.2	
52 Cyclohexane	56	4.729	4.729	0.001	89	1969972	200.0	181.4	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	96	1733486	200.0	183.8	
55 Carbon tetrachloride	117	4.832	4.832	0.000	98	1851720	200.0	216.8	
53 Isobutyl alcohol	43	4.887	4.887	0.000	93	1487313	5000.0	5010.1	
57 Benzene	78	5.002	5.002	0.000	97	4629602	200.0	177.2	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	98	1988012	200.0	183.0	
59 n-Heptane	43	5.100	5.100	0.000	88	1751083	200.0	178.4	
62 Trichloroethene	95	5.519	5.519	0.000	96	1357877	200.0	186.7	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	2243684	200.0	181.9	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	92	1233710	200.0	190.3	
66 1,4-Dioxane	88	5.848	5.842	0.006	92	297020	4000.0	3924.6	
67 Dibromomethane	93	5.866	5.866	0.000	95	856867	200.0	190.6	
68 Dichlorobromomethane	83	5.976	5.976	0.000	99	1794814	200.0	218.3	
69 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	93	742017	200.0	195.9	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	96	2148475	200.0	203.5	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	92	5118631	1000.0	878.5	
74 Toluene	92	6.645	6.645	0.000	98	3089086	200.0	183.3	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	96	1987513	200.0	210.9	
75 Ethyl methacrylate	69	6.870	6.870	0.000	88	1629551	200.0	199.2	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	93	926647	200.0	193.9	
81 Tetrachloroethene	166	7.162	7.162	0.000	96	1443677	200.0	187.8	
82 1,3-Dichloropropane	76	7.229	7.223	0.006	96	1889226	200.0	187.2	
80 2-Hexanone	43	7.241	7.241	0.000	93	3738265	1000.0	888.2	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	1359822	200.0	204.8	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	1173860	200.0	199.8	
87 Chlorobenzene	112	8.044	8.044	0.000	93	3417394	200.0	184.6	
88 Ethylbenzene	91	8.111	8.111	0.000	98	5385473	200.0	175.0	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	93	1335762	200.0	223.5	
90 m-Xylene & p-Xylene	106	8.227	8.227	0.000	98	2329337	200.0	187.5	
91 o-Xylene	106	8.659	8.658	0.001	96	2278394	200.0	187.3	
92 Styrene	104	8.677	8.677	0.000	93	3839885	200.0	185.5	
95 Bromoform	173	8.951	8.951	0.001	96	909203	200.0	209.1	
94 Isopropylbenzene	105	9.024	9.024	0.000	97	5569835	200.0	173.0	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	77	1381192	200.0	184.9	
101 Bromobenzene	156	9.413	9.413	0.000	90	1656976	200.0	189.4	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	56	450490	200.0	195.0	
99 N-Propylbenzene	91	9.462	9.455	0.007	96	6060485	200.0	161.4	
100 1,2,3-Trichloropropane	110	9.468	9.462	0.006	78	461259	200.0	181.8	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	1434353	200.0	186.0	
102 1,3,5-Trimethylbenzene	105	9.632	9.626	0.006	95	4780011	200.0	172.2	
105 4-Chlorotoluene	126	9.693	9.693	0.000	98	1499790	200.0	184.7	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	1206491	200.0	188.3	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	4929543	200.0	172.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	5843192	200.0	166.8	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	94	5122436	200.0	171.9	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	3070433	200.0	181.8	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.000	93	3082149	200.0	181.0	
115 n-Butylbenzene	91	10.666	10.666	0.000	95	4670385	200.0	169.3	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	2963263	200.0	184.4	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	86	325731	200.0	228.3	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	95	2087551	200.0	189.9	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	97	1236872	200.0	190.9	
121 Naphthalene	128	12.290	12.290	0.000	98	4463512	200.0	184.7	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	1935590	200.0	192.4	
S 123 Total BTEX	1				0			910.3	
S 124 Xylenes, Total	1				0			374.9	
S 125 1,2-Dichloroethene, Total	1				0			362.4	
S 126 1,3-Dichloropropene, Total	1				0			414.4	

Reagents:

8260 CORP mix_00103	Amount Added: 100.00	Units: uL	
GAS CORP mix_00230	Amount Added: 100.00	Units: uL	
F 8260 SURR_00239	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00556	Amount Added: 1.00	Units: uL	Run Reagent

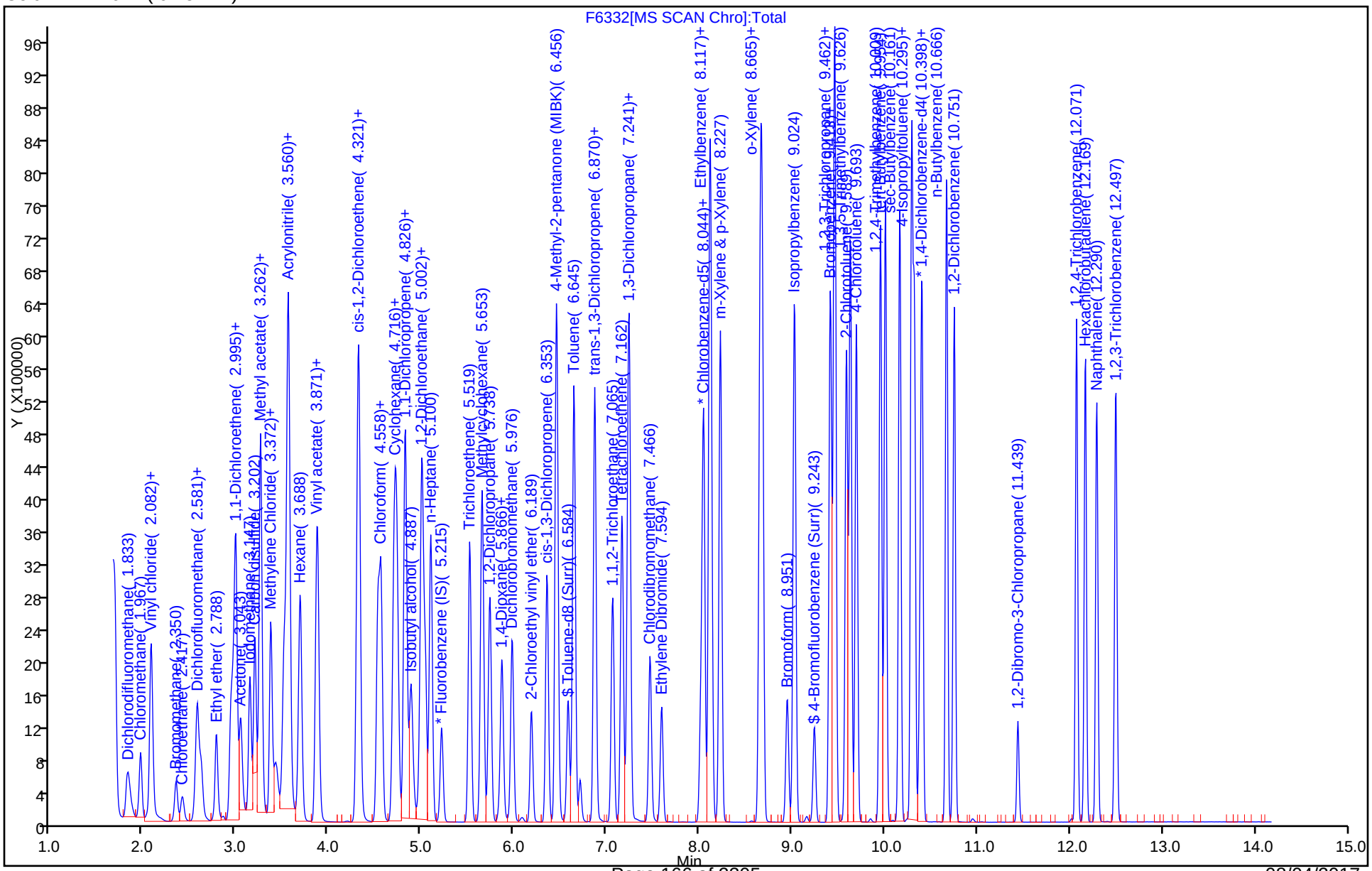
Report Date: 21-Jul-2017 07:11:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6332.D

Injection Date:	20-Jul-2017 14:16:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 7			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368916/3 Calibration Date: 07/26/2017 21:18

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6519.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.553	1.721	0.1000	55.4	50.0	10.8	50.0
Chloromethane	Ave	1.304	1.464	0.1000	56.2	50.0	12.3	20.0
Vinyl chloride	Ave	1.239	1.423	0.1000	57.4	50.0	14.8	20.0
Butadiene	Ave	1.118	1.212		54.2	50.0	8.4	20.0
Bromomethane	Ave	0.4360	0.8042	0.1000	92.2	50.0	84.4*	50.0
Chloroethane	Lin1		0.6564	0.1000	86.1	50.0	72.2*	50.0
Dichlorofluoromethane	Ave	1.454	1.752		60.2	50.0	20.5*	20.0
Trichlorofluoromethane	Ave	1.602	1.924	0.1000	60.0	50.0	20.1*	20.0
Ethyl ether	Ave	0.8259	0.8948		54.2	50.0	8.3	20.0
Acrolein	Ave	0.2065	0.2468		299	250	19.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.339	1.374	0.1000	51.3	50.0	2.6	20.0
1,1-Dichloroethene	Ave	1.213	1.273	0.1000	52.5	50.0	4.9	20.0
Acetone	Ave	0.4543	0.5962	0.1000	328	250	31.2	50.0
Iodomethane	Ave	2.510	2.460		49.0	50.0	-2.0	20.0
Carbon disulfide	Ave	4.382	3.986	0.1000	45.5	50.0	-9.1	20.0
Allyl chloride	Ave	1.993	2.006		50.3	50.0	0.7	20.0
Methyl acetate	Ave	0.8870	1.103	0.1000	311	250	24.4	50.0
Methylene Chloride	Lin1		1.502	0.1000	54.5	50.0	9.0	20.0
2-Methyl-2-propanol	Ave	0.1515	0.2020		667	500	33.3	50.0
Methyl tert-butyl ether	Ave	4.047	4.319	0.1000	53.4	50.0	6.7	20.0
trans-1,2-Dichloroethene	Ave	1.390	1.417	0.1000	51.0	50.0	2.0	20.0
Acrylonitrile	Ave	0.4376	0.5419		619	500	23.8*	20.0
Hexane	Ave	1.974	2.058		52.1	50.0	4.3	20.0
Vinyl acetate	Ave	2.176	2.634		121	100	21.0*	20.0
1,1-Dichloroethane	Ave	2.431	2.513	0.2000	51.7	50.0	3.4	20.0
2,2-Dichloropropane	Ave	2.124	2.212		52.1	50.0	4.2	20.0
2-Butanone (MEK)	Ave	0.5790	0.7939	0.1000	343	250	37.1*	20.0
cis-1,2-Dichloroethene	Ave	1.536	1.595	0.1000	51.9	50.0	3.8	20.0
Chlorobromomethane	Ave	0.7302	0.7560		51.8	50.0	3.5	20.0
Tetrahydrofuran	Ave	0.3634	0.4651		128	100	28.0*	20.0
Chloroform	Ave	2.562	2.661	0.2000	51.9	50.0	3.8	20.0
1,1,1-Trichloroethane	Ave	2.220	2.347	0.1000	52.9	50.0	5.7	20.0
Cyclohexane	Ave	2.154	2.194	0.1000	50.9	50.0	1.9	20.0
1,1-Dichloropropene	Ave	1.871	1.941		51.9	50.0	3.7	20.0
Carbon tetrachloride	Ave	1.695	1.973	0.1000	58.2	50.0	16.4	20.0
Isobutyl alcohol	Ave	0.0589	0.0820		1740	1250	39.1	50.0
Benzene	Ave	5.185	5.286	0.5000	51.0	50.0	2.0	20.0
1,2-Dichloroethane	Ave	2.155	2.292	0.1000	53.2	50.0	6.3	20.0
n-Heptane	Ave	1.947	1.972		50.6	50.0	1.3	20.0
Trichloroethene	Ave	1.443	1.458	0.2000	50.5	50.0	1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368916/3 Calibration Date: 07/26/2017 21:18

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6519.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.447	2.449	0.1000	50.0	50.0	0.0	20.0
1,2-Dichloropropane	Ave	1.286	1.319	0.1000	51.3	50.0	2.5	20.0
1,4-Dioxane	Lin1		0.0078		1070	1000	7.3	50.0
Dibromomethane	Ave	0.8921	0.9594	0.1000	53.8	50.0	7.5	20.0
Bromodichloromethane	Ave	1.632	1.850	0.2000	56.7	50.0	13.4	20.0
2-Chloroethyl vinyl ether	Ave	0.7517	0.8183		54.4	50.0	8.8	20.0
cis-1,3-Dichloropropene	Ave	2.095	2.199	0.2000	52.5	50.0	5.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5719	0.7089	0.1000	310	250	24.0*	20.0
Toluene	Ave	1.654	1.611	0.4000	48.7	50.0	-2.6	20.0
Ethyl methacrylate	Ave	0.8030	0.8817		54.9	50.0	9.8	20.0
trans-1,3-Dichloropropene	Ave	0.9251	0.9915	0.1000	53.6	50.0	7.2	20.0
1,1,2-Trichloroethane	Ave	0.4691	0.4969	0.1000	53.0	50.0	5.9	20.0
Tetrachloroethene	Ave	0.7545	0.7192	0.2000	47.7	50.0	-4.7	20.0
1,3-Dichloropropane	Ave	0.9905	1.038		52.4	50.0	4.8	20.0
2-Hexanone	Ave	0.4131	0.5349	0.1000	324	250	29.5*	20.0
Dibromochloromethane	Lin1		0.6341	0.1000	50.8	50.0	1.6	20.0
1,2-Dibromoethane	Ave	0.5768	0.6133		53.2	50.0	6.3	20.0
Chlorobenzene	Ave	1.817	1.768	0.5000	48.7	50.0	-2.7	20.0
Ethylbenzene	Ave	3.021	3.046	0.1000	50.4	50.0	0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5866	0.6371		54.3	50.0	8.6	20.0
m,p-Xylene	Ave	1.219	1.204	0.1000	49.4	50.0	-1.3	20.0
o-Xylene	Ave	1.194	1.166	0.3000	48.9	50.0	-2.3	20.0
Styrene	Ave	2.032	2.001	0.3000	49.2	50.0	-1.5	20.0
Bromoform	Lin1		0.3938	0.1000	49.4	50.0	-1.2	50.0
Isopropylbenzene	Ave	3.064	3.097	0.1000	50.5	50.0	1.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7107	0.8526	0.3000	60.0	50.0	20.0	20.0
Bromobenzene	Ave	0.8326	0.8297		49.8	50.0	-0.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2198	0.2816		64.1	50.0	28.1	50.0
1,2,3-Trichloropropane	Ave	0.2415	0.2787		57.7	50.0	15.4	20.0
N-Propylbenzene	Ave	3.572	3.671		51.4	50.0	2.8	20.0
2-Chlorotoluene	Ave	0.7337	0.7280		49.6	50.0	-0.8	20.0
1,3,5-Trimethylbenzene	Ave	2.642	2.690		50.9	50.0	1.8	20.0
4-Chlorotoluene	Ave	0.7726	0.7772		50.3	50.0	0.6	20.0
tert-Butylbenzene	Ave	0.6097	0.5991		49.1	50.0	-1.7	20.0
1,2,4-Trimethylbenzene	Ave	2.721	2.786		51.2	50.0	2.4	20.0
sec-Butylbenzene	Ave	3.333	3.371		50.6	50.0	1.1	20.0
4-Isopropyltoluene	Ave	2.836	2.896		51.1	50.0	2.1	20.0
1,3-Dichlorobenzene	Ave	1.607	1.625	0.6000	50.6	50.0	1.1	20.0
1,4-Dichlorobenzene	Ave	1.620	1.642	0.5000	50.7	50.0	1.3	20.0
n-Butylbenzene	Ave	2.625	2.730		52.0	50.0	4.0	20.0
1,2-Dichlorobenzene	Ave	1.529	1.551	0.4000	50.7	50.0	1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368916/3 Calibration Date: 07/26/2017 21:18

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6519.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1357	0.1751	0.0500	64.5	50.0	29.0	50.0
1,2,4-Trichlorobenzene	Ave	1.046	1.030	0.2000	49.2	50.0	-1.6	20.0
Hexachlorobutadiene	Ave	0.6167	0.5770		46.8	50.0	-6.4	20.0
Naphthalene	Ave	2.299	2.501		54.4	50.0	8.8	20.0
1,2,3-Trichlorobenzene	Ave	0.9574	0.9288		48.5	50.0	-3.0	20.0
Dibromofluoromethane (Surr)	Ave	1.312	1.308		49.8	50.0	-0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8495	0.8462		49.8	50.0	-0.4	20.0
Toluene-d8 (Surr)	Ave	2.361	2.287		48.4	50.0	-3.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8002	0.8174		51.1	50.0	2.1	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6519.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Jul-2017 21:18:30 ALS Bottle#: 23 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0064365-003
Operator ID: SO Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 22:01:49 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: o'briens Date: 26-Jul-2017 22:01:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	219964	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	463650	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	456933	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	92	287728	50.0	49.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	186125	50.0	49.8	
$ 5 Toluene-d8 (Surr)	98	6.584	6.584	0.000	94	1060513	50.0	48.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	92	378965	50.0	51.1	
10 Dichlorodifluoromethane	85	1.827	1.827	0.000	99	378564	50.0	55.4	
12 Chloromethane	50	1.954	1.954	0.000	99	322044	50.0	56.2	
13 Vinyl chloride	62	2.064	2.064	0.000	98	313035	50.0	57.4	
151 Butadiene	54	2.082	2.082	0.000	92	266618	50.0	54.2	
14 Bromomethane	94	2.344	2.344	0.000	92	176901	50.0	92.2	
15 Chloroethane	64	2.417	2.417	0.000	100	144393	50.0	86.1	
16 Dichlorofluoromethane	67	2.575	2.575	0.000	97	385348	50.0	60.2	
17 Trichlorofluoromethane	101	2.611	2.611	0.000	98	423265	50.0	60.0	
18 Ethyl ether	59	2.788	2.788	0.000	89	196823	50.0	54.2	
20 Acrolein	56	2.940	2.940	0.000	99	271409	250.0	298.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.970	0.000	92	302242	50.0	51.3	
22 1,1-Dichloroethene	96	2.995	2.995	0.000	97	279905	50.0	52.5	
23 Acetone	43	3.049	3.049	0.000	99	655758	250.0	328.1	
25 Iodomethane	142	3.147	3.147	0.000	99	541130	50.0	49.0	
26 Carbon disulfide	76	3.201	3.201	0.000	100	876694	50.0	45.5	
27 Methyl acetate	43	3.262	3.262	0.000	96	1213480	250.0	311.0	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	88	441315	50.0	50.3	
30 Methylene Chloride	84	3.372	3.372	0.000	92	330468	50.0	54.5	
31 2-Methyl-2-propanol	59	3.427	3.427	0.000	98	444276	500.0	666.7	
32 Methyl tert-butyl ether	73	3.524	3.524	0.000	95	949965	50.0	53.4	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	98	311728	50.0	51.0	
33 Acrylonitrile	53	3.566	3.566	0.000	98	1191968	500.0	619.2	
35 Hexane	57	3.688	3.688	0.000	93	452643	50.0	52.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.865	3.865	0.000	98	1158625	100.0	121.0	
39 1,1-Dichloroethane	63	3.883	3.883	0.000	96	552828	50.0	51.7	
44 2,2-Dichloropropane	77	4.315	4.315	0.000	63	486666	50.0	52.1	
43 2-Butanone (MEK)	43	4.315	4.315	0.000	98	873149	250.0	342.8	
45 cis-1,2-Dichloroethene	96	4.327	4.327	0.000	82	350831	50.0	51.9	
48 Chlorobromomethane	128	4.528	4.528	0.000	94	166302	50.0	51.8	
49 Tetrahydrofuran	42	4.546	4.546	0.000	84	204612	100.0	128.0	
50 Chloroform	83	4.564	4.564	0.000	94	585271	50.0	51.9	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	516309	50.0	52.9	
52 Cyclohexane	56	4.728	4.728	0.000	90	482695	50.0	50.9	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	96	426950	50.0	51.9	
55 Carbon tetrachloride	117	4.832	4.832	0.000	97	434008	50.0	58.2	
53 Isobutyl alcohol	43	4.887	4.887	0.000	92	450651	1250.0	1739.1	
57 Benzene	78	5.002	5.002	0.000	97	1162791	50.0	51.0	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	98	504092	50.0	53.2	
59 n-Heptane	43	5.100	5.100	0.000	88	433806	50.0	50.6	
62 Trichloroethene	95	5.519	5.519	0.000	97	320730	50.0	50.5	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	538632	50.0	50.0	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	91	290059	50.0	51.3	
66 1,4-Dioxane	88	5.842	5.842	0.000	90	72389	1000.0	1073.3	
67 Dibromomethane	93	5.866	5.866	0.000	95	211042	50.0	53.8	
68 Dichlorobromomethane	83	5.976	5.976	0.000	98	406895	50.0	56.7	
69 2-Chloroethyl vinyl ether	63	6.188	6.188	0.000	93	179985	50.0	54.4	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	483743	50.0	52.5	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1643411	250.0	309.9	
74 Toluene	92	6.645	6.645	0.000	98	746870	50.0	48.7	
75 Ethyl methacrylate	69	6.870	6.870	0.000	87	408797	50.0	54.9	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	98	459687	50.0	53.6	
79 1,1,2-Trichloroethane	83	7.065	7.065	0.000	94	230389	50.0	53.0	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	333446	50.0	47.7	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	96	481408	50.0	52.4	
80 2-Hexanone	43	7.241	7.241	0.000	93	1239964	250.0	323.7	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	293996	50.0	50.8	
84 Ethylene Dibromide	107	7.588	7.588	0.000	98	284369	50.0	53.2	
87 Chlorobenzene	112	8.044	8.044	0.000	93	819911	50.0	48.7	
88 Ethylbenzene	91	8.111	8.111	0.000	98	1412062	50.0	50.4	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	92	295385	50.0	54.3	
90 m-Xylene & p-Xylene	106	8.226	8.226	0.000	99	558141	50.0	49.4	
91 o-Xylene	106	8.658	8.658	0.000	97	540840	50.0	48.9	
92 Styrene	104	8.677	8.677	0.000	94	927847	50.0	49.2	
95 Bromoform	173	8.950	8.950	0.000	94	182603	50.0	49.4	
94 Isopropylbenzene	105	9.023	9.023	0.000	97	1415276	50.0	50.5	
101 Bromobenzene	156	9.413	9.413	0.000	94	379120	50.0	49.8	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	82	389582	50.0	60.0	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	58	128685	50.0	64.1	
99 N-Propylbenzene	91	9.461	9.461	0.000	98	1677507	50.0	51.4	
100 1,2,3-Trichloropropane	110	9.461	9.461	0.000	82	127367	50.0	57.7	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	332653	50.0	49.6	
102 1,3,5-Trimethylbenzene	105	9.632	9.632	0.000	94	1229329	50.0	50.9	
105 4-Chlorotoluene	126	9.693	9.693	0.000	99	355140	50.0	50.3	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	273742	50.0	49.1	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	98	1272806	50.0	51.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1540315	50.0	50.6	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	1323071	50.0	51.1	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	742720	50.0	50.6	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	95	750212	50.0	50.7	
115 n-Butylbenzene	91	10.666	10.666	0.000	98	1247432	50.0	52.0	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	708888	50.0	50.7	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.439	0.000	82	80024	50.0	64.5	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	470424	50.0	49.2	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	97	263626	50.0	46.8	
121 Naphthalene	128	12.290	12.290	0.000	97	1142801	50.0	54.4	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	424391	50.0	48.5	

Reagents:

GAS CORP mix_00231	Amount Added: 25.00	Units: uL	
8260 CORP mix_00103	Amount Added: 25.00	Units: uL	
F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

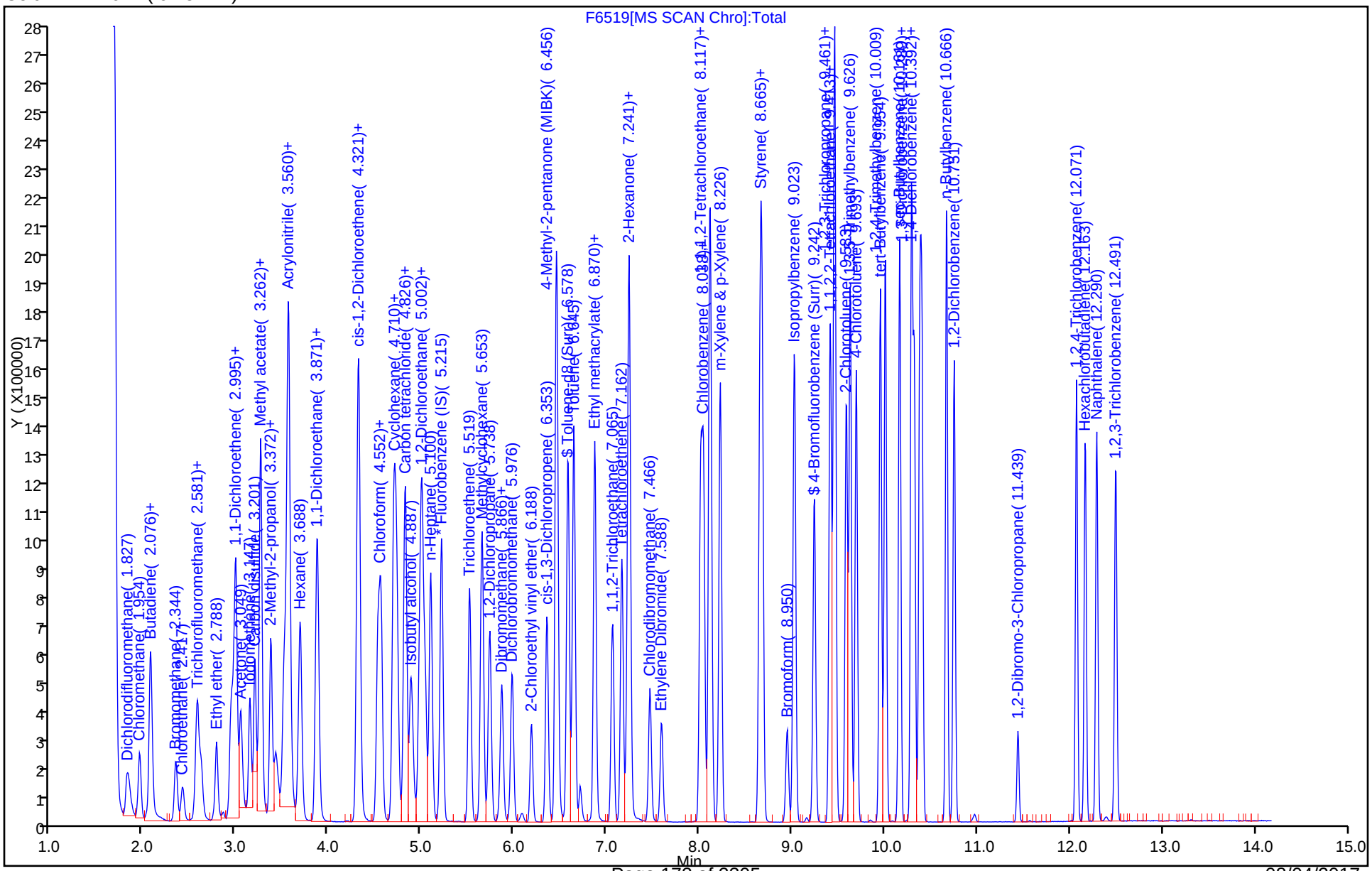
Report Date: 26-Jul-2017 22:01:51 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6519.D

Injection Date:	26-Jul-2017 21:18:30	Instrument ID:	HP5973F	Operator ID:	SO
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368964/3 Calibration Date: 07/27/2017 09:37

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6543.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.553	1.350	0.1000	43.5	50.0	-13.1	50.0
Chloromethane	Ave	1.304	1.338	0.1000	51.3	50.0	2.6	20.0
Vinyl chloride	Ave	1.239	1.266	0.1000	51.1	50.0	2.2	20.0
Butadiene	Ave	1.118	1.060		47.4	50.0	-5.2	20.0
Bromomethane	Ave	0.4360	0.6217	0.1000	71.3	50.0	42.6	50.0
Chloroethane	Lin1		0.5667	0.1000	74.1	50.0	48.2	50.0
Dichlorofluoromethane	Ave	1.454	1.561		53.7	50.0	7.3	20.0
Trichlorofluoromethane	Ave	1.602	1.615	0.1000	50.4	50.0	0.8	20.0
Ethyl ether	Ave	0.8259	0.8564		51.8	50.0	3.7	20.0
Acrolein	Ave	0.2065	0.2104		255	250	1.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.339	1.273	0.1000	47.5	50.0	-5.0	20.0
1,1-Dichloroethene	Ave	1.213	1.171	0.1000	48.3	50.0	-3.4	20.0
Acetone	Ave	0.4543	0.4867	0.1000	268	250	7.1	50.0
Iodomethane	Ave	2.510	2.389		47.6	50.0	-4.8	20.0
Carbon disulfide	Ave	4.382	3.857	0.1000	44.0	50.0	-12.0	20.0
Allyl chloride	Ave	1.993	1.956		49.1	50.0	-1.9	20.0
Methyl acetate	Ave	0.8870	0.9134	0.1000	257	250	3.0	50.0
Methylene Chloride	Lin1		1.476	0.1000	53.5	50.0	7.0	20.0
2-Methyl-2-propanol	Ave	0.1515	0.1480		489	500	-2.3	50.0
Methyl tert-butyl ether	Ave	4.047	3.994	0.1000	49.3	50.0	-1.3	20.0
trans-1,2-Dichloroethene	Ave	1.390	1.388	0.1000	49.9	50.0	-0.1	20.0
Acrylonitrile	Ave	0.4376	0.4608		527	500	5.3	20.0
Hexane	Ave	1.974	1.856		47.0	50.0	-6.0	20.0
Vinyl acetate	Ave	2.176	2.404		110	100	10.5	20.0
1,1-Dichloroethane	Ave	2.431	2.472	0.2000	50.8	50.0	1.7	20.0
2,2-Dichloropropane	Ave	2.124	2.149		50.6	50.0	1.2	20.0
2-Butanone (MEK)	Ave	0.5790	0.6370	0.1000	275	250	10.0	20.0
cis-1,2-Dichloroethene	Ave	1.536	1.550	0.1000	50.4	50.0	0.9	20.0
Chlorobromomethane	Ave	0.7302	0.7271		49.8	50.0	-0.4	20.0
Tetrahydrofuran	Ave	0.3634	0.3710		102	100	2.1	20.0
Chloroform	Ave	2.562	2.594	0.2000	50.6	50.0	1.2	20.0
1,1,1-Trichloroethane	Ave	2.220	2.199	0.1000	49.5	50.0	-0.9	20.0
Cyclohexane	Ave	2.154	1.997	0.1000	46.4	50.0	-7.3	20.0
1,1-Dichloropropene	Ave	1.871	1.870		50.0	50.0	-0.0	20.0
Carbon tetrachloride	Ave	1.695	1.826	0.1000	53.9	50.0	7.8	20.0
Isobutyl alcohol	Ave	0.0589	0.0602		1280	1250	2.1	50.0
Benzene	Ave	5.185	5.197	0.5000	50.1	50.0	0.2	20.0
1,2-Dichloroethane	Ave	2.155	2.173	0.1000	50.4	50.0	0.8	20.0
n-Heptane	Ave	1.947	1.750		44.9	50.0	-10.1	20.0
Trichloroethene	Ave	1.443	1.392	0.2000	48.2	50.0	-3.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368964/3 Calibration Date: 07/27/2017 09:37

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6543.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.447	2.226	0.1000	45.5	50.0	-9.0	20.0
1,2-Dichloropropane	Ave	1.286	1.280	0.1000	49.7	50.0	-0.5	20.0
1,4-Dioxane	Lin1		0.0061		843	1000	-15.7	50.0
Dibromomethane	Ave	0.8921	0.8955	0.1000	50.2	50.0	0.4	20.0
Bromodichloromethane	Ave	1.632	1.768	0.2000	54.2	50.0	8.3	20.0
2-Chloroethyl vinyl ether	Ave	0.7517	0.7271		48.4	50.0	-3.3	20.0
cis-1,3-Dichloropropene	Ave	2.095	2.099	0.2000	50.1	50.0	0.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5719	0.5956	0.1000	260	250	4.2	20.0
Toluene	Ave	1.654	1.631	0.4000	49.3	50.0	-1.4	20.0
Ethyl methacrylate	Ave	0.8030	0.8047		50.1	50.0	0.2	20.0
trans-1,3-Dichloropropene	Ave	0.9251	0.9703	0.1000	52.4	50.0	4.9	20.0
1,1,2-Trichloroethane	Ave	0.4691	0.4766	0.1000	50.8	50.0	1.6	20.0
Tetrachloroethene	Ave	0.7545	0.6922	0.2000	45.9	50.0	-8.3	20.0
1,3-Dichloropropane	Ave	0.9905	0.9778		49.4	50.0	-1.3	20.0
2-Hexanone	Ave	0.4131	0.4433	0.1000	268	250	7.3	20.0
Dibromochloromethane	Lin1		0.6011	0.1000	48.3	50.0	-3.4	20.0
1,2-Dibromoethane	Ave	0.5768	0.5803		50.3	50.0	0.6	20.0
Chlorobenzene	Ave	1.817	1.775	0.5000	48.9	50.0	-2.3	20.0
Ethylbenzene	Ave	3.021	3.061	0.1000	50.7	50.0	1.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5866	0.6376		54.4	50.0	8.7	20.0
m,p-Xylene	Ave	1.219	1.197	0.1000	49.1	50.0	-1.9	20.0
o-Xylene	Ave	1.194	1.157	0.3000	48.4	50.0	-3.1	20.0
Styrene	Ave	2.032	1.999	0.3000	49.2	50.0	-1.6	20.0
Bromoform	Lin1		0.3708	0.1000	46.7	50.0	-6.5	50.0
Isopropylbenzene	Ave	3.064	2.875	0.1000	46.9	50.0	-6.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7107	0.7253	0.3000	51.0	50.0	2.1	20.0
Bromobenzene	Ave	0.8326	0.7608		45.7	50.0	-8.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2198	0.2303		52.4	50.0	4.8	50.0
1,2,3-Trichloropropane	Ave	0.2415	0.2323		48.1	50.0	-3.8	20.0
N-Propylbenzene	Ave	3.572	3.422		47.9	50.0	-4.2	20.0
2-Chlorotoluene	Ave	0.7337	0.6888		46.9	50.0	-6.1	20.0
1,3,5-Trimethylbenzene	Ave	2.642	2.495		47.2	50.0	-5.5	20.0
4-Chlorotoluene	Ave	0.7726	0.7227		46.8	50.0	-6.5	20.0
tert-Butylbenzene	Ave	0.6097	0.5467		44.8	50.0	-10.3	20.0
1,2,4-Trimethylbenzene	Ave	2.721	2.603		47.8	50.0	-4.3	20.0
sec-Butylbenzene	Ave	3.333	3.135		47.0	50.0	-5.9	20.0
4-Isopropyltoluene	Ave	2.836	2.671		47.1	50.0	-5.8	20.0
1,3-Dichlorobenzene	Ave	1.607	1.520	0.6000	47.3	50.0	-5.4	20.0
1,4-Dichlorobenzene	Ave	1.620	1.529	0.5000	47.2	50.0	-5.6	20.0
n-Butylbenzene	Ave	2.625	2.497		47.6	50.0	-4.9	20.0
1,2-Dichlorobenzene	Ave	1.529	1.438	0.4000	47.0	50.0	-6.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368964/3 Calibration Date: 07/27/2017 09:37

Instrument ID: HP5973F Calib Start Date: 07/20/2017 11:43

GC Column: ZB-624 (30) ID: 0.25(mm) Calib End Date: 07/20/2017 14:16

Lab File ID: F6543.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1357	0.1327	0.0500	48.9	50.0	-2.3	50.0
1,2,4-Trichlorobenzene	Ave	1.046	0.9274	0.2000	44.3	50.0	-11.4	20.0
Hexachlorobutadiene	Ave	0.6167	0.5111		41.4	50.0	-17.1	20.0
Naphthalene	Ave	2.299	2.099		45.7	50.0	-8.7	20.0
1,2,3-Trichlorobenzene	Ave	0.9574	0.8316		43.4	50.0	-13.1	20.0
Dibromofluoromethane (Surr)	Ave	1.312	1.261		48.0	50.0	-3.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8495	0.7906		46.5	50.0	-6.9	20.0
Toluene-d8 (Surr)	Ave	2.361	2.272		48.1	50.0	-3.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8002	0.8476		53.0	50.0	5.9	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6543.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Jul-2017 09:37:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0064372-003
Operator ID: AM/CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 10:02:59 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 10:02:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	220045	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.013	8.013	0.000	89	451641	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	475361	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.698	0.000	92	277377	50.0	48.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	173975	50.0	46.5	
$ 5 Toluene-d8 (Surr)	98	6.584	6.584	0.000	94	1026125	50.0	48.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	87	382800	50.0	53.0	
10 Dichlorodifluoromethane	85	1.833	1.833	0.000	99	297076	50.0	43.5	
12 Chloromethane	50	1.954	1.954	0.000	99	294399	50.0	51.3	
13 Vinyl chloride	62	2.064	2.064	0.000	98	278628	50.0	51.1	
151 Butadiene	54	2.082	2.082	0.000	90	233218	50.0	47.4	
14 Bromomethane	94	2.344	2.344	0.000	92	136796	50.0	71.3	
15 Chloroethane	64	2.417	2.417	0.000	99	124702	50.0	74.1	
16 Dichlorofluoromethane	67	2.575	2.575	0.000	97	343396	50.0	53.7	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	355460	50.0	50.4	
18 Ethyl ether	59	2.788	2.788	0.000	89	188452	50.0	51.8	
20 Acrolein	56	2.940	2.940	0.000	99	231529	250.0	254.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.976	2.976	0.000	93	280036	50.0	47.5	
22 1,1-Dichloroethene	96	2.994	2.994	0.000	97	257734	50.0	48.3	
23 Acetone	43	3.049	3.049	0.000	99	535419	250.0	267.8	
25 Iodomethane	142	3.147	3.147	0.000	99	525665	50.0	47.6	
26 Carbon disulfide	76	3.201	3.201	0.000	100	848787	50.0	44.0	
27 Methyl acetate	43	3.262	3.262	0.000	95	1004969	250.0	257.4	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	79	430299	50.0	49.1	
30 Methylene Chloride	84	3.372	3.372	0.000	92	324764	50.0	53.5	
31 2-Methyl-2-propanol	59	3.426	3.426	0.000	99	325722	500.0	488.6	
32 Methyl tert-butyl ether	73	3.524	3.524	0.000	95	878820	50.0	49.3	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	98	305413	50.0	49.9	
33 Acrylonitrile	53	3.566	3.566	0.000	98	1013992	500.0	526.5	
35 Hexane	57	3.688	3.688	0.000	93	408343	50.0	47.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.871	3.871	0.000	98	1057979	100.0	110.5	
39 1,1-Dichloroethane	63	3.883	3.883	0.000	96	543980	50.0	50.8	
44 2,2-Dichloropropane	77	4.315	4.315	0.000	69	472985	50.0	50.6	
43 2-Butanone (MEK)	43	4.315	4.315	0.000	98	700830	250.0	275.0	
45 cis-1,2-Dichloroethene	96	4.327	4.327	0.000	83	340982	50.0	50.4	
48 Chlorobromomethane	128	4.528	4.528	0.000	92	159985	50.0	49.8	
49 Tetrahydrofuran	42	4.546	4.546	0.000	84	163285	100.0	102.1	
50 Chloroform	83	4.564	4.564	0.000	94	570796	50.0	50.6	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	483939	50.0	49.5	
52 Cyclohexane	56	4.728	4.728	0.000	90	439472	50.0	46.4	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	96	411405	50.0	50.0	
55 Carbon tetrachloride	117	4.826	4.826	0.000	97	401901	50.0	53.9	
53 Isobutyl alcohol	43	4.886	4.886	0.000	93	330963	1250.0	1276.8	
57 Benzene	78	5.002	5.002	0.000	96	1143469	50.0	50.1	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	97	478122	50.0	50.4	
59 n-Heptane	43	5.099	5.099	0.000	88	385038	50.0	44.9	
62 Trichloroethene	95	5.519	5.519	0.000	95	306366	50.0	48.2	
64 Methylcyclohexane	83	5.653	5.653	0.000	90	489803	50.0	45.5	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	90	281606	50.0	49.7	
66 1,4-Dioxane	88	5.854	5.854	0.000	70	54933	1000.0	842.9	
67 Dibromomethane	93	5.866	5.866	0.000	95	197057	50.0	50.2	
68 Dichlorobromomethane	83	5.982	5.982	0.000	99	388979	50.0	54.2	
69 2-Chloroethyl vinyl ether	63	6.188	6.188	0.000	93	159991	50.0	48.4	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	461850	50.0	50.1	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	1344996	250.0	260.4	
74 Toluene	92	6.645	6.645	0.000	98	736640	50.0	49.3	
75 Ethyl methacrylate	69	6.870	6.870	0.000	88	363451	50.0	50.1	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	96	438247	50.0	52.4	
79 1,1,2-Trichloroethane	83	7.064	7.064	0.000	94	215229	50.0	50.8	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	312622	50.0	45.9	
82 1,3-Dichloropropane	76	7.229	7.229	0.000	97	441598	50.0	49.4	
80 2-Hexanone	43	7.247	7.247	0.000	95	1001084	250.0	268.3	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	271458	50.0	48.3	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	262093	50.0	50.3	
87 Chlorobenzene	112	8.044	8.044	0.000	93	801723	50.0	48.9	
88 Ethylbenzene	91	8.111	8.111	0.000	99	1382540	50.0	50.7	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	91	287983	50.0	54.4	
90 m-Xylene & p-Xylene	106	8.226	8.226	0.000	99	540429	50.0	49.1	
91 o-Xylene	106	8.652	8.652	0.000	97	522327	50.0	48.4	
92 Styrene	104	8.677	8.677	0.000	94	902869	50.0	49.2	
95 Bromoform	173	8.950	8.950	0.000	94	167468	50.0	46.7	
94 Isopropylbenzene	105	9.023	9.023	0.000	97	1366763	50.0	46.9	
101 Bromobenzene	156	9.413	9.413	0.000	94	361635	50.0	45.7	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	78	344770	50.0	51.0	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	44	109475	50.0	52.4	
99 N-Propylbenzene	91	9.461	9.461	0.000	98	1626854	50.0	47.9	
100 1,2,3-Trichloropropane	110	9.461	9.461	0.000	54	110415	50.0	48.1	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	327444	50.0	46.9	
102 1,3,5-Trimethylbenzene	105	9.632	9.632	0.000	94	1186143	50.0	47.2	
105 4-Chlorotoluene	126	9.692	9.692	0.000	99	343535	50.0	46.8	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	259867	50.0	44.8	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	98	1237435	50.0	47.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1490096	50.0	47.0	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	96	1269554	50.0	47.1	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	722668	50.0	47.3	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	95	726923	50.0	47.2	
115 n-Butylbenzene	91	10.672	10.672	0.000	98	1187020	50.0	47.6	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	683641	50.0	47.0	
117 1,2-Dibromo-3-Chloropropan	75	11.438	11.438	0.000	82	63067	50.0	48.9	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	440824	50.0	44.3	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	98	242977	50.0	41.4	
121 Naphthalene	128	12.290	12.290	0.000	97	997952	50.0	45.7	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	94	395299	50.0	43.4	

Reagents:

GAS CORP mix_00231	Amount Added: 25.00	Units: uL	
8260 CORP mix_00103	Amount Added: 25.00	Units: uL	
F 8260 SURR_00240	Amount Added: 1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added: 1.00	Units: uL	Run Reagent

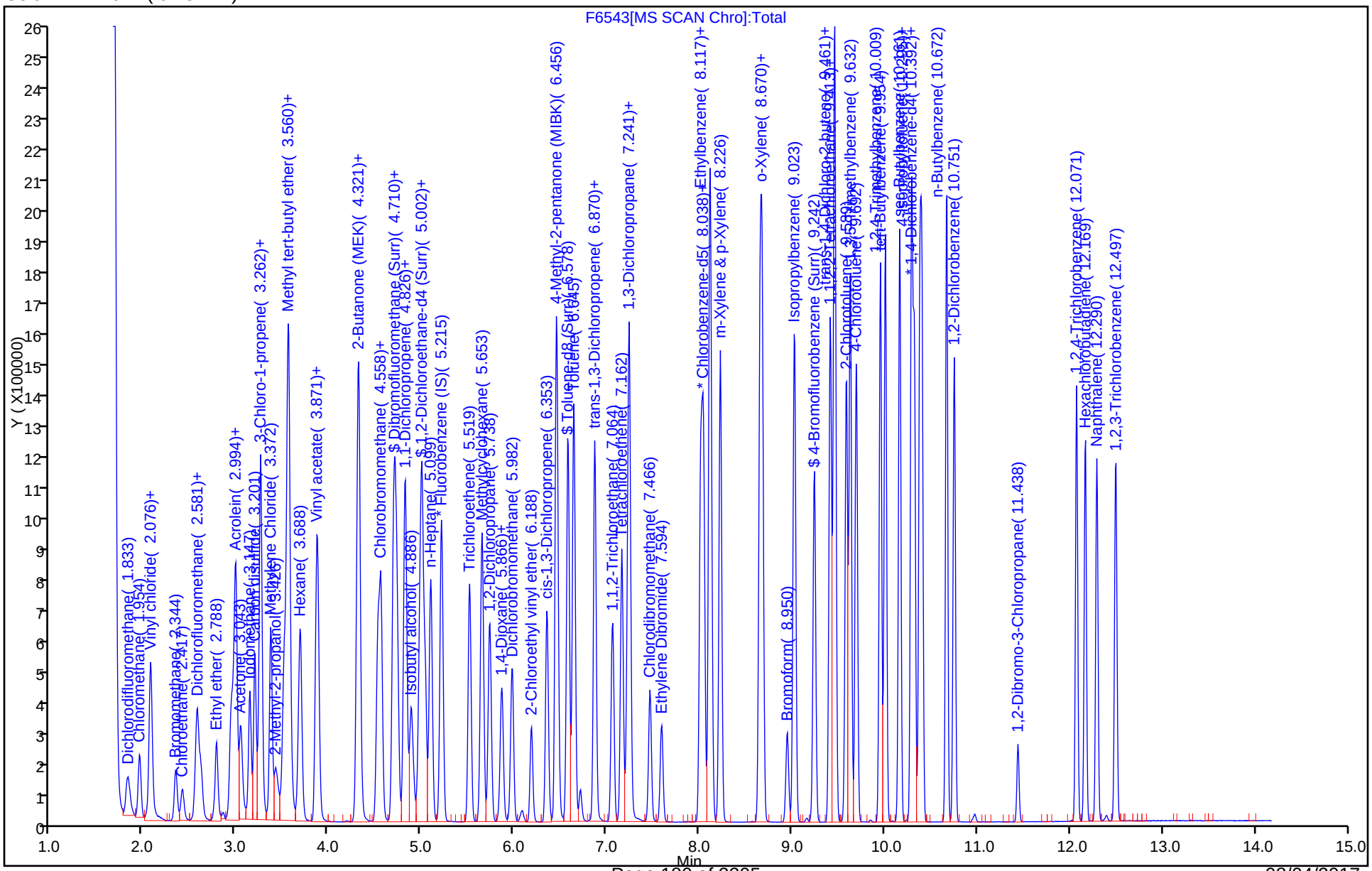
Report Date: 27-Jul-2017 10:03:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6543.D

Injection Date:	27-Jul-2017 09:37:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6324.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 20-Jul-2017 10:51:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0064196-002
Operator ID: CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jul-2017 22:51:22 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: cwiklinc Date: 20-Jul-2017 10:56:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.363	5.363	0.000	0	117615	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

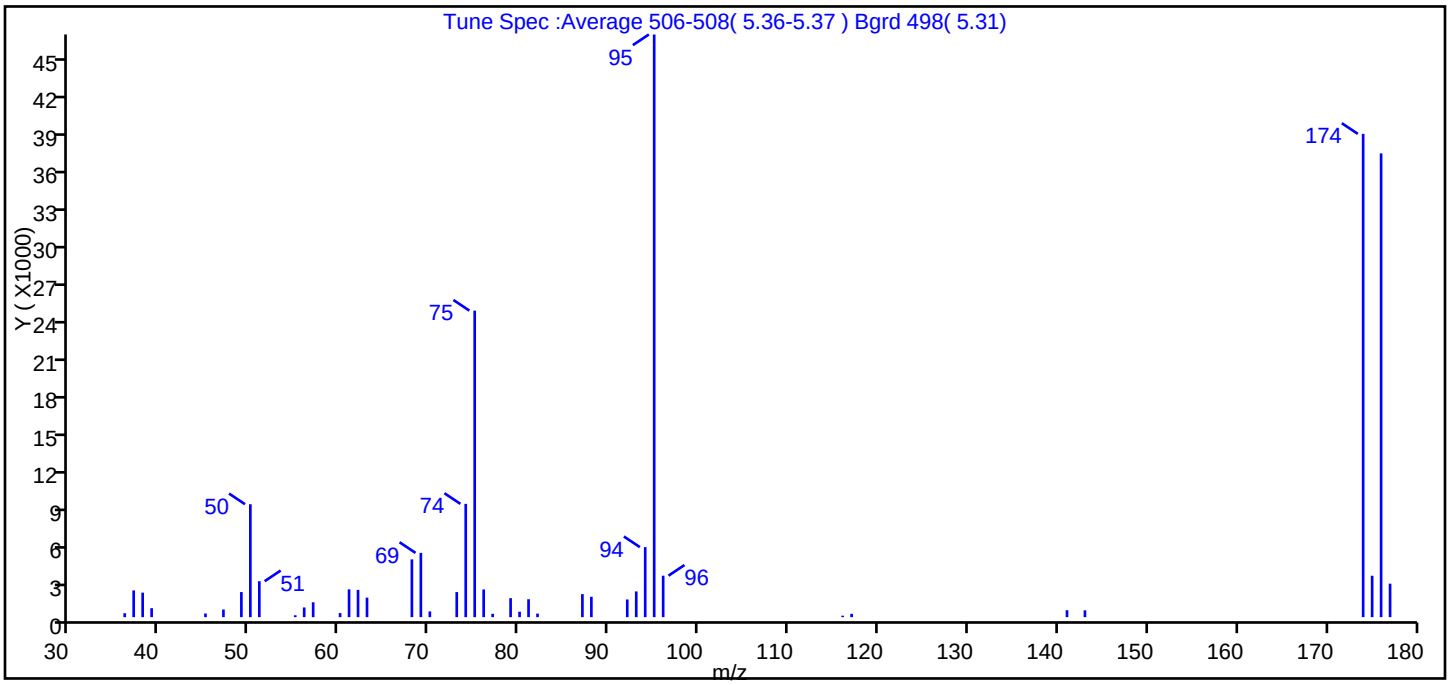
BFB_WRK_00063 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6324.D
Injection Date: 20-Jul-2017 10:51:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.4
75	30 to 60% of m/z 95	52.6
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.9
175	5 to 9% of m/z 174	7.1 (8.6)
176	Greater than 95% but less than 101% of m/z 174	79.6 (96.0)
177	5 to 9% of m/z 176	5.7 (7.2)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6324.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 20-Jul-2017 10:51:30
Spectrum: Tune Spec :Average 506-508(5.36-5.37) Bgrd 498(5.31)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	313	57.00	1195	76.00	2223	95.00	46808
37.00	2145	60.00	326	77.00	269	96.00	3330
38.00	1967	61.00	2234	79.00	1524	116.00	118
39.00	721	62.00	2189	80.00	435	117.00	270
45.00	292	63.00	1568	81.00	1438	141.00	556
47.00	613	68.00	4640	82.00	284	143.00	548
49.00	2015	69.00	5161	87.00	1851	174.00	38824
50.00	9072	70.00	460	88.00	1635	175.00	3325
51.00	2887	73.00	2014	92.00	1420	176.00	37256
55.00	151	74.00	9100	93.00	2066	177.00	2689
56.00	778	75.00	24624	94.00	5624		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6518.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	26-Jul-2017 20:51:30	ALS Bottle#:	22	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0064365-002				
Operator ID:	SO	Instrument ID:	HP5973F		
Method:	\\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	26-Jul-2017 20:55:34	Calib Date:	20-Jul-2017 17:41:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK026				
First Level Reviewer: o'briens		Date:	26-Jul-2017 20:55:34		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.394	5.394	0.000	0	165023	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

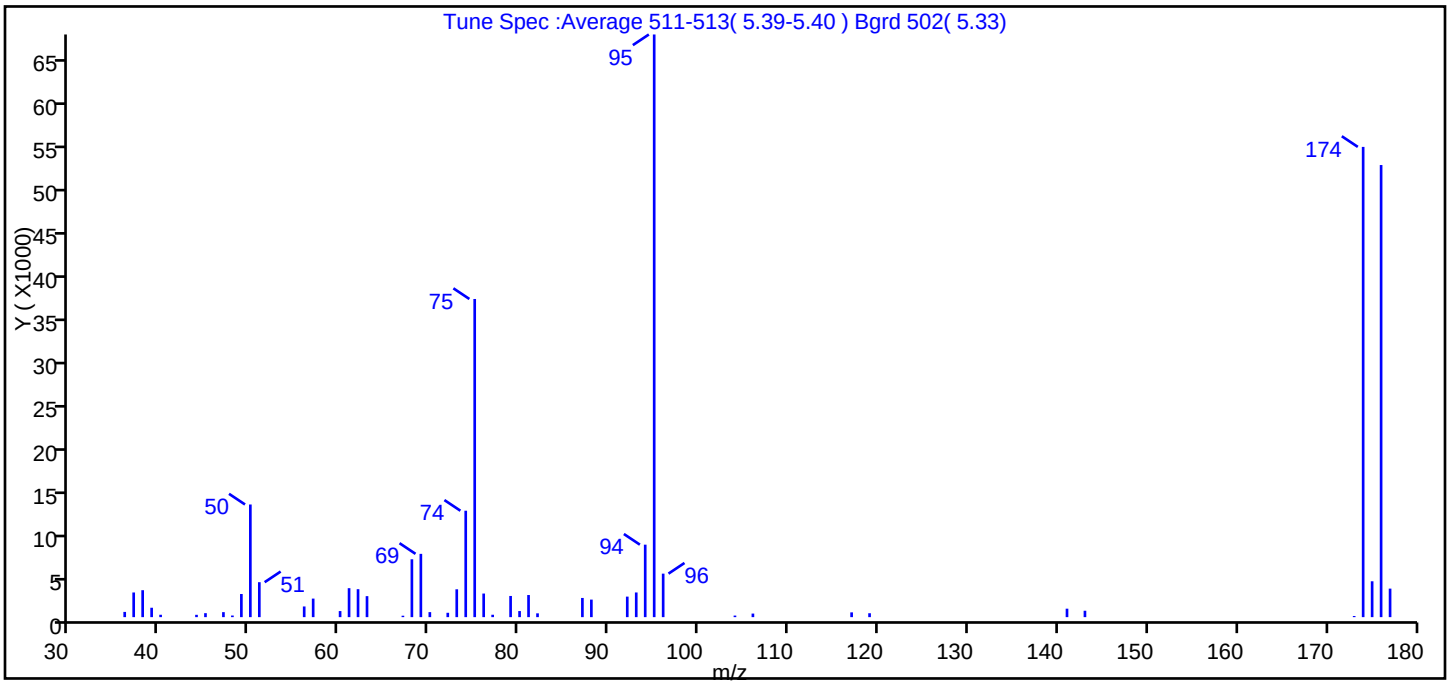
BFB_WRK_00063 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6518.D
Injection Date: 26-Jul-2017 20:51:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: SO ALS Bottle#: 22 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.3
75	30 to 60% of m/z 95	54.6
96	5 to 9% of m/z 95	7.5
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	80.7
175	5 to 9% of m/z 174	6.2 (7.6)
176	Greater than 95% but less than 101% of m/z 174	77.6 (96.1)
177	5 to 9% of m/z 176	4.9 (6.3)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6518.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 26-Jul-2017 20:51:30
Spectrum: Tune Spec :Average 511-513(5.39-5.40) Bgrd 502(5.33)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	604	57.00	2143	76.00	2727	104.00	181
37.00	2850	60.00	702	77.00	278	106.00	413
38.00	3114	61.00	3347	79.00	2448	117.00	553
39.00	1087	62.00	3231	80.00	704	119.00	452
40.00	276	63.00	2427	81.00	2556	141.00	977
44.00	269	67.00	164	82.00	440	143.00	739
45.00	460	68.00	6687	87.00	2218	173.00	129
47.00	578	69.00	7314	88.00	2028	174.00	54344
48.00	187	70.00	580	92.00	2372	175.00	4145
49.00	2674	72.00	503	93.00	2852	176.00	52248
50.00	13019	73.00	3219	94.00	8376	177.00	3296
51.00	4038	74.00	12298	95.00	67336		
56.00	1234	75.00	36768	96.00	5028		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6542.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 27-Jul-2017 09:12:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0064372-002
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 09:15:58 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 09:15:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.364	5.364	0.000	0	82414	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

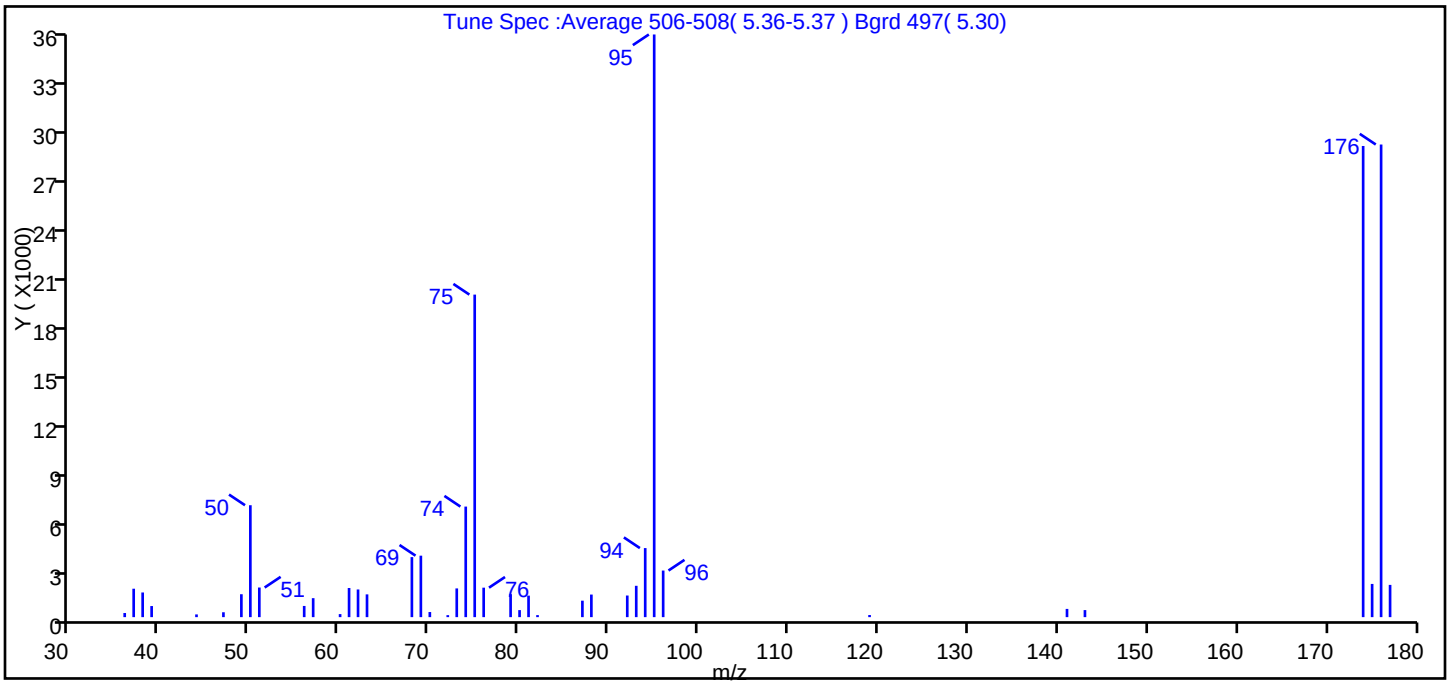
BFB_WRK_00063 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6542.D
Injection Date: 27-Jul-2017 09:12:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: AM/CDC ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.2
75	30 to 60% of m/z 95	55.4
96	5 to 9% of m/z 95	8.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.9
175	5 to 9% of m/z 174	5.7 (7.0)
176	Greater than 95% but less than 101% of m/z 174	81.1 (100.3)
177	5 to 9% of m/z 176	5.5 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6542.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 27-Jul-2017 09:12:30
Spectrum: Tune Spec :Average 506-508(5.36-5.37) Bgrd 497(5.30)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	248	60.00	183	76.00	1772	96.00	2802
37.00	1709	61.00	1751	79.00	1382	119.00	127
38.00	1483	62.00	1664	80.00	423	141.00	495
39.00	667	63.00	1369	81.00	1293	143.00	424
44.00	164	68.00	3609	82.00	122	174.00	28328
47.00	294	69.00	3696	87.00	990	175.00	1997
49.00	1378	70.00	307	88.00	1358	176.00	28416
50.00	6729	72.00	120	92.00	1300	177.00	1939
51.00	1781	73.00	1727	93.00	1884		
56.00	673	74.00	6647	94.00	4152		
57.00	1141	75.00	19392	95.00	35032		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368925/2-A

Matrix: Solid | Lab File ID: F6523.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/26/2017 23:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368916 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	0.467	J	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
591-78-6	2-Hexanone	ND		25	2.5
78-93-3	2-Butanone (MEK)	ND		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	ND		25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
110-82-7	Cyclohexane	ND		5.0	0.70
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
98-82-8	Isopropylbenzene	ND		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368925/2-A

Matrix: Solid | Lab File ID: F6523.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/26/2017 23:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368916 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	3.0
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
100-42-5	Styrene	ND		5.0	0.25
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		64-126
2037-26-5	Toluene-d8 (Surr)	92		71-125
460-00-4	4-Bromofluorobenzene (Surr)	94		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6523.D
Lims ID: MB 480-368925/2-A
Client ID:
Sample Type: MB
Inject. Date: 26-Jul-2017 23:00:30 ALS Bottle#: 27 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB 480-368925/2-A
Misc. Info.: 480-0064365-007
Operator ID: SO Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 23:24:57 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: o'briens Date: 26-Jul-2017 23:24:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	208501	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	442773	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	415179	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.692	0.006	92	258751	50.0	47.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	167281	50.0	47.2	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	959258	50.0	45.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	86	333815	50.0	47.1	
10 Dichlorodifluoromethane	85		1.827					ND	
11 Chlorodifluoromethane	51		1.833					ND	
12 Chloromethane	50		1.954					ND	
13 Vinyl chloride	62		2.064					ND	
151 Butadiene	54		2.082					ND	
14 Bromomethane	94		2.344					ND	
15 Chloroethane	64		2.417					ND	
16 Dichlorofluoromethane	67		2.575					ND	
17 Trichlorofluoromethane	101		2.611					ND	
148 Ethanol	45		2.757					ND	
18 Ethyl ether	59		2.788					ND	
19 Propene oxide	58		2.873					ND	
20 Acrolein	56		2.940					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.970					ND	
22 1,1-Dichloroethene	96		2.995					ND	
23 Acetone	43	3.055	3.049	0.006	97	7720		4.08	
24 Isopropyl alcohol	45		3.129					ND	
25 Iodomethane	142		3.147					ND	
26 Carbon disulfide	76		3.201					ND	
27 Methyl acetate	43		3.262					ND	
28 3-Chloro-1-propene	41		3.262					ND	
29 Acetonitrile	40		3.293					ND	
30 Methylene Chloride	84		3.372					ND	
31 2-Methyl-2-propanol	59		3.427					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
32 Methyl tert-butyl ether	73		3.524					ND	
34 trans-1,2-Dichloroethene	96		3.554					ND	
33 Acrylonitrile	53		3.566					ND	
35 Hexane	57	3.694	3.688	0.006	94	2970		0.3609	
134 Halothane	117		3.834					ND	
36 Isopropyl ether	45		3.840					ND	
37 Vinyl acetate	43		3.865					ND	
39 1,1-Dichloroethane	63		3.883					ND	
38 1,1-Dimethoxyethane	75		3.907					ND	
40 2-Chloro-1,3-butadiene	53		3.932					ND	
41 Tert-butyl ethyl ether	59		4.114					ND	
42 Ethyl acetate	43		4.309					ND	
44 2,2-Dichloropropane	77		4.315					ND	
43 2-Butanone (MEK)	43		4.315					ND	
45 cis-1,2-Dichloroethene	96		4.327					ND	
46 Propionitrile	54		4.406					ND	
47 Methacrylonitrile	41		4.497					ND	
48 Chlorobromomethane	128		4.528					ND	
49 Tetrahydrofuran	42		4.546					ND	
50 Chloroform	83		4.564					ND	
51 1,1,1-Trichloroethane	97		4.704					ND	
52 Cyclohexane	56		4.728					ND	
54 1,1-Dichloropropene	75		4.820					ND	
55 Carbon tetrachloride	117		4.832					ND	
53 Isobutyl alcohol	43		4.887					ND	
147 t-Amyl alcohol	59		4.960					ND	
152 Isooctane	57		4.966					ND	
57 Benzene	78		5.002					ND	
56 Tert-amyl methyl ether	73		5.021					ND	
58 1,2-Dichloroethane	62		5.039					ND	
59 n-Heptane	43		5.100					ND	
1 1,4-Difluorobenzene	114		5.282					ND	
136 2,4,4-Trimethyl-1-pentene	55		5.398					ND	
60 n-Butanol	56		5.422					ND	
62 Trichloroethene	95		5.519					ND	
137 Ethyl acrylate	55		5.586					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.592					ND	
64 Methylcyclohexane	83		5.653					ND	
65 1,2-Dichloropropane	63		5.738					ND	
63 Methyl methacrylate	41		5.751					ND	
66 1,4-Dioxane	88		5.842					ND	
67 Dibromomethane	93		5.866					ND	
68 Dichlorobromomethane	83		5.976					ND	
69 2-Chloroethyl vinyl ether	63		6.188					ND	
70 2-Nitropropane	43		6.189					ND	
71 Epichlorohydrin	57		6.298					ND	
72 cis-1,3-Dichloropropene	75		6.353					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456					ND	
74 Toluene	92		6.645					ND	
76 2-Methylthiophene	97		6.779					ND	
75 Ethyl methacrylate	69		6.870					ND	
77 trans-1,3-Dichloropropene	75		6.870					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
78 3-Methylthiophene	97		6.931					ND	
79 1,1,2-Trichloroethane	83		7.065					ND	
81 Tetrachloroethene	166		7.162					ND	
82 1,3-Dichloropropane	76		7.223					ND	
80 2-Hexanone	43	7.253	7.253	0.012	38	5751		1.57	M
155 n-Butyl acetate	43		7.320					ND	
83 Chlorodibromomethane	129		7.466					ND	
84 Ethylene Dibromide	107		7.588					ND	
146 1-Chlorohexane	55		7.947					ND	
85 3-Chlorobenzotrifluoride	180		7.953					ND	
86 4-Chlorobenzotrifluoride	180		8.008					ND	
87 Chlorobenzene	112		8.044					ND	
88 Ethylbenzene	91		8.111					ND	
89 1,1,1,2-Tetrachloroethane	131		8.123					ND	
90 m-Xylene & p-Xylene	106		8.226					ND	
91 o-Xylene	106		8.658					ND	
92 Styrene	104		8.677					ND	
93 2-Chlorobenzotrifluoride	180		8.932					ND	
95 Bromoform	173		8.950					ND	
94 Isopropylbenzene	105		9.023					ND	
96 Cyclohexanone	55		9.224					ND	
101 Bromobenzene	156		9.413					ND	
97 1,1,2,2-Tetrachloroethane	83		9.413					ND	
98 trans-1,4-Dichloro-2-buten	53		9.455					ND	
99 N-Propylbenzene	91		9.461					ND	
100 1,2,3-Trichloropropane	110		9.461					ND	
103 2-Chlorotoluene	126		9.589					ND	
102 1,3,5-Trimethylbenzene	105		9.632					ND	
104 3-Chlorotoluene	126		9.644					ND	
105 4-Chlorotoluene	126		9.693					ND	
106 tert-Butylbenzene	134		9.954					ND	
107 1,2,4-Trimethylbenzene	105		10.009					ND	
108 Pentachloroethane	167		10.027					ND	
109 sec-Butylbenzene	105		10.161					ND	
110 4-Isopropyltoluene	119		10.289					ND	
111 1,3-Dichlorobenzene	146		10.319					ND	
114 Dicyclopentadiene	66		10.392					ND	
113 1,4-Dichlorobenzene	146		10.404					ND	
112 1,2,3-Trimethylbenzene	105		10.417					ND	
150 Benzyl chloride	126		10.532					ND	
115 n-Butylbenzene	91		10.666					ND	
116 1,2-Dichlorobenzene	146		10.751					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.439					ND	
118 1,3,5-Trichlorobenzene	180		11.566					ND	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	90	4057		0.4670	
120 Hexachlorobutadiene	225		12.169					ND	
121 Naphthalene	128	12.290	12.290	0.000	96	15603		0.8172	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	94	4177		0.5254	
149 2-Methylnaphthalene	142	13.300	13.300	0.000	89	5155		0.4520	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
144 1-Bromopropane TIC	1		0.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
T 142 1-Bromopropane	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 140 bis(chloromethyl)ether TIC	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 129 tert-amyl alcohol TIC	59		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 131 Nitrobenzene	77		0.000					ND	
T 139 Bromoethane TIC	1		0.000					ND	
T 132 Methyl acrylate	1		0.000					ND	
T 141 Pentachloroethane TIC	1		0.000					ND	
T 138 Aziridine TIC	1		0.000					ND	
T 133 cis-1,4-Dichloro-2-butene	88		0.000					ND	
T 130 Hexachloroethane	117		0.000					ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

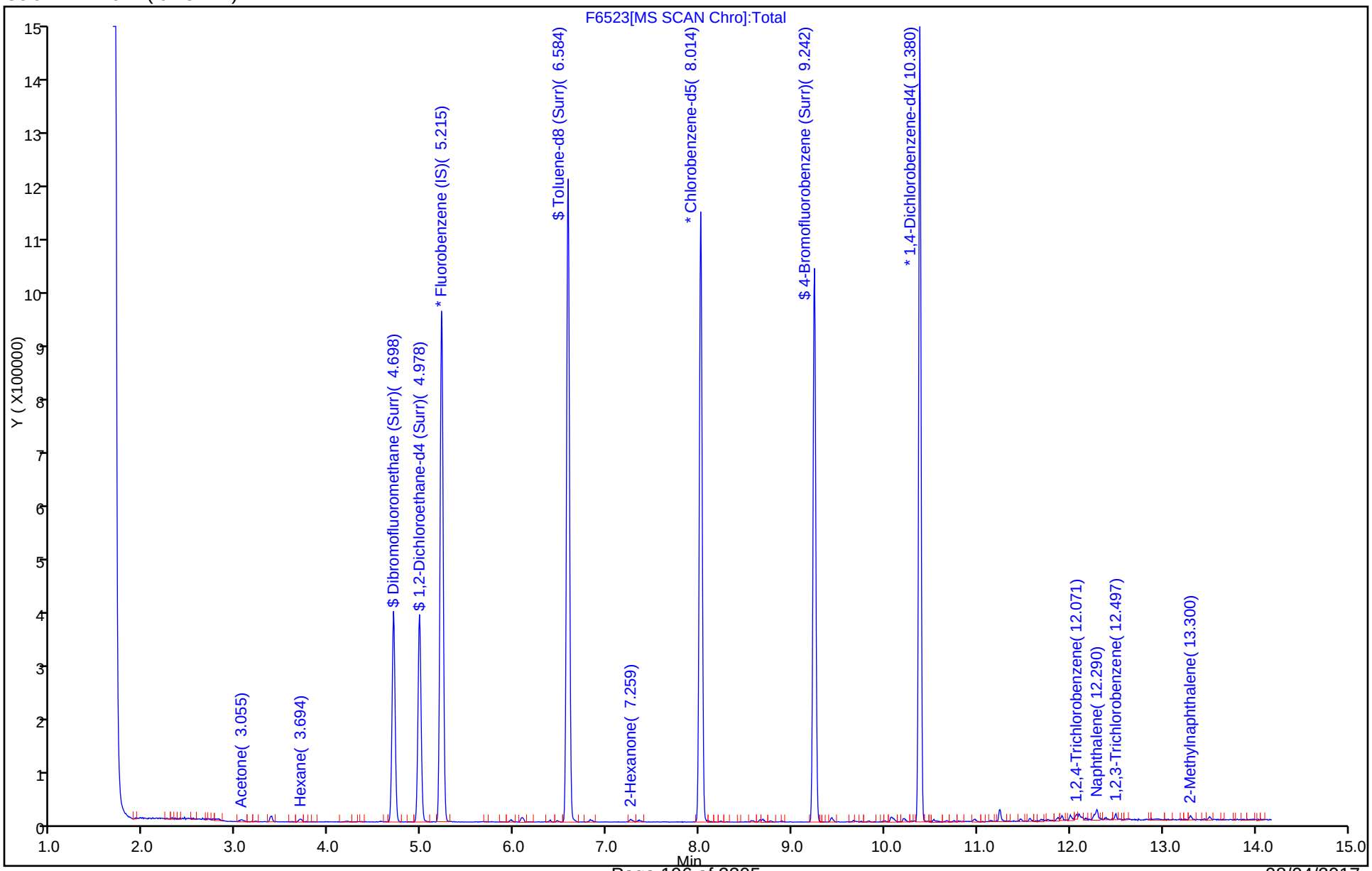
Report Date: 26-Jul-2017 23:24:57 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6523.D

Injection Date:	26-Jul-2017 23:00:30	Instrument ID:	HP5973F	Operator ID:	SO
Lims ID:	MB 480-368925/2-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

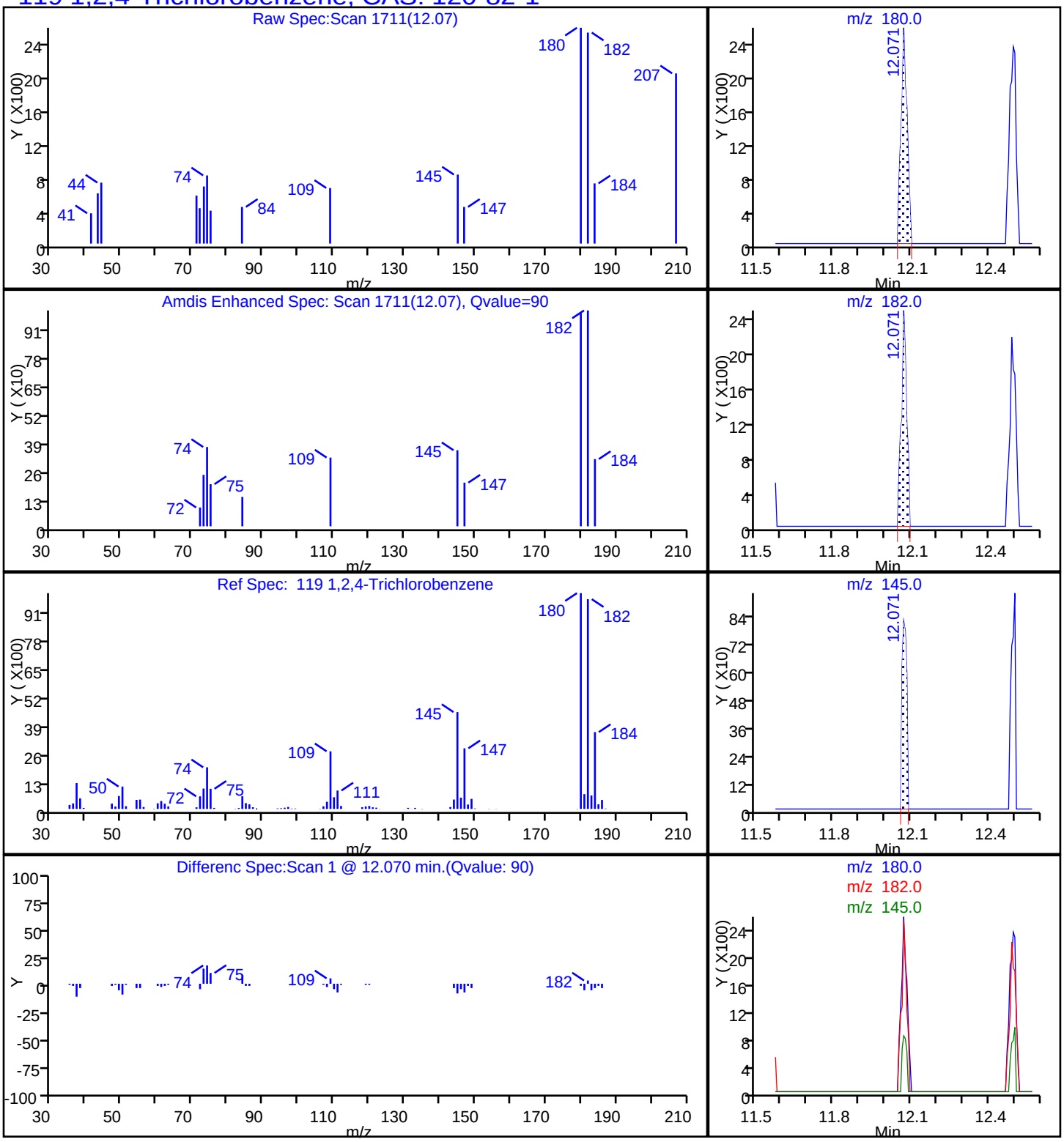
Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6523.D
Injection Date: 26-Jul-2017 23:00:30 Instrument ID: HP5973F
Lims ID: MB 480-368925/2-A
Client ID:
Operator ID: SO ALS Bottle#: 27 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

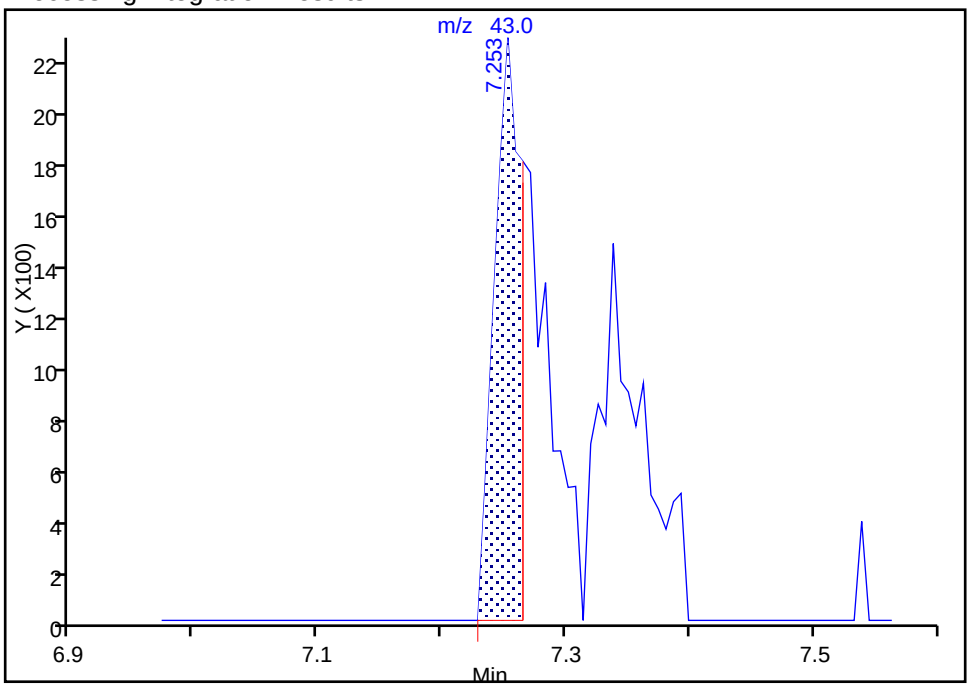
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6523.D
Injection Date: 26-Jul-2017 23:00:30 Instrument ID: HP5973F
Lims ID: MB 480-368925/2-A
Client ID:
Operator ID: SO ALS Bottle#: 27 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

80 2-Hexanone, CAS: 591-78-6

Signal: 1

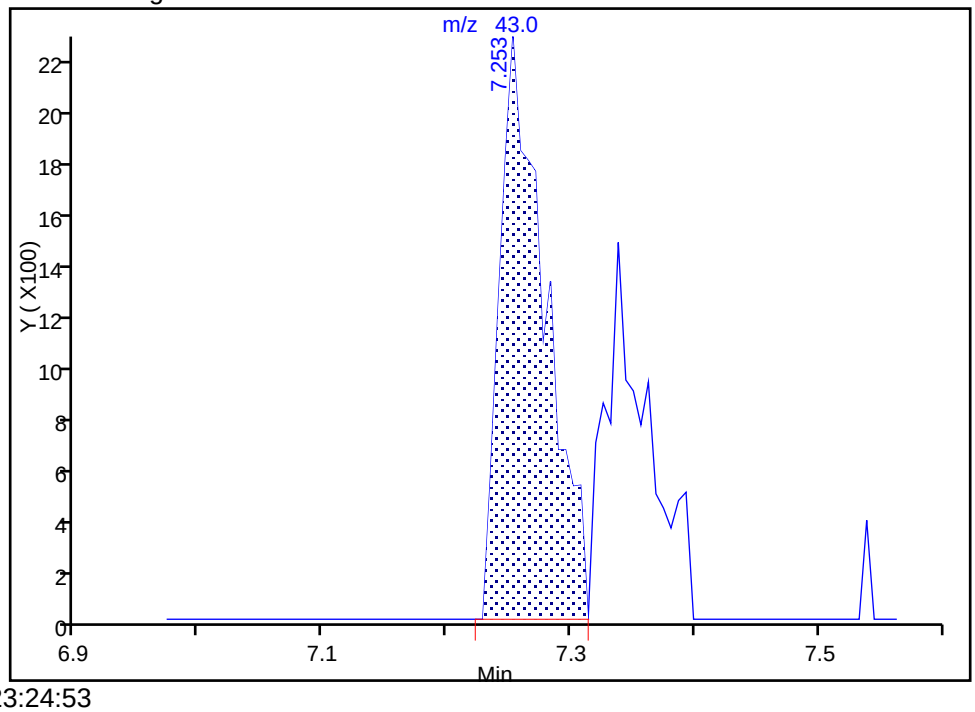
Processing Integration Results

RT: 7.25
Area: 3405
Amount: 0.930801
Amount Units: ug/kg



Manual Integration Results

RT: 7.25
Area: 5751
Amount: 1.572110
Amount Units: ug/kg



Reviewer: o'briens, 26-Jul-2017 23:24:53
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-369004/2-A

Matrix: Solid | Lab File ID: F6547.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 11:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	0.438	J	5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
591-78-6	2-Hexanone	ND		25	2.5
78-93-3	2-Butanone (MEK)	ND		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	4.42	J	25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
110-82-7	Cyclohexane	ND		5.0	0.70
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
98-82-8	Isopropylbenzene	ND		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-369004/2-A

Matrix: Solid | Lab File ID: F6547.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 11:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		25	3.0
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
100-42-5	Styrene	ND		5.0	0.25
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-126
2037-26-5	Toluene-d8 (Surr)	91		71-125
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6547.D
Lims ID: MB 480-369004/2-A
Client ID:
Sample Type: MB
Inject. Date: 27-Jul-2017 11:47:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0064372-007
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 12:00:53 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 12:00:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	204078	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	427734	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	96	400817	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.692	0.006	92	240803	50.0	45.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	157305	50.0	45.4	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	922848	50.0	45.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	87	337636	50.0	49.3	
10 Dichlorodifluoromethane	85		1.833					ND	
11 Chlorodifluoromethane	51		1.833					ND	
12 Chloromethane	50		1.954					ND	
13 Vinyl chloride	62		2.064					ND	
151 Butadiene	54		2.082					ND	
14 Bromomethane	94		2.344					ND	
15 Chloroethane	64		2.417					ND	
16 Dichlorofluoromethane	67		2.575					ND	
17 Trichlorofluoromethane	101		2.593					ND	
148 Ethanol	45		2.763					ND	
18 Ethyl ether	59		2.788					ND	
19 Propene oxide	58		2.873					ND	
20 Acrolein	56		2.940					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.976					ND	
22 1,1-Dichloroethene	96		2.994					ND	
23 Acetone	43	3.055	3.049	0.006	99	8196		4.42	
24 Isopropyl alcohol	45		3.134					ND	
25 Iodomethane	142		3.147					ND	
26 Carbon disulfide	76		3.201					ND	
27 Methyl acetate	43		3.262					ND	
28 3-Chloro-1-propene	41		3.262					ND	
29 Acetonitrile	40		3.293					ND	
31 2-Methyl-2-propanol	59		3.426					ND	
32 Methyl tert-butyl ether	73		3.524					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
34 trans-1,2-Dichloroethene	96		3.554					ND	
33 Acrylonitrile	53		3.566					ND	
35 Hexane	57	3.682	3.688	-0.006	88	3589		0.4455	
36 Isopropyl ether	45		3.834					ND	
134 Halothane	117		3.840					ND	
37 Vinyl acetate	43		3.871					ND	
39 1,1-Dichloroethane	63		3.883					ND	
38 1,1-Dimethoxyethane	75		3.913					ND	
40 2-Chloro-1,3-butadiene	53		3.931					ND	
41 Tert-butyl ethyl ether	59		4.114					ND	
42 Ethyl acetate	43		4.309					ND	
44 2,2-Dichloropropane	77		4.315					ND	
43 2-Butanone (MEK)	43		4.315					ND	
45 cis-1,2-Dichloroethene	96		4.327					ND	
46 Propionitrile	54		4.406					ND	
47 Methacrylonitrile	41		4.497					ND	
48 Chlorobromomethane	128		4.528					ND	
49 Tetrahydrofuran	42		4.546					ND	
50 Chloroform	83		4.564					ND	
51 1,1,1-Trichloroethane	97		4.704					ND	
52 Cyclohexane	56		4.728					ND	
54 1,1-Dichloropropene	75		4.820					ND	
55 Carbon tetrachloride	117		4.826					ND	
53 Isobutyl alcohol	43		4.886					ND	
147 t-Amyl alcohol	59		4.960					ND	
152 Isooctane	57		4.966					ND	
57 Benzene	78		5.002					ND	
56 Tert-amyl methyl ether	73		5.020					ND	
59 n-Heptane	43		5.099					ND	
1 1,4-Difluorobenzene	114		5.282					ND	
136 2,4,4-Trimethyl-1-pentene	55		5.404					ND	
60 n-Butanol	56		5.428					ND	
62 Trichloroethene	95		5.519					ND	
137 Ethyl acrylate	55		5.586					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.592					ND	
64 Methylcyclohexane	83		5.653					ND	
65 1,2-Dichloropropane	63		5.738					ND	
63 Methyl methacrylate	41		5.750					ND	
66 1,4-Dioxane	88		5.854					ND	
67 Dibromomethane	93		5.866					ND	
68 Dichlorobromomethane	83		5.982					ND	
69 2-Chloroethyl vinyl ether	63		6.188					ND	
70 2-Nitropropane	43		6.188					ND	
71 Epichlorohydrin	57		6.298					ND	
72 cis-1,3-Dichloropropene	75		6.353					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.456					ND	
74 Toluene	92		6.645					ND	
76 2-Methylthiophene	97		6.779					ND	
75 Ethyl methacrylate	69		6.870					ND	
77 trans-1,3-Dichloropropene	75		6.870					ND	
78 3-Methylthiophene	97		6.931					ND	
79 1,1,2-Trichloroethane	83		7.064					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
81 Tetrachloroethene	166		7.162					ND	
82 1,3-Dichloropropane	76		7.229					ND	
80 2-Hexanone	43	7.259	7.247	0.012	93	6656		1.88	
155 n-Butyl acetate	43		7.326					ND	
83 Chlorodibromomethane	129		7.466					ND	
84 Ethylene Dibromide	107		7.594					ND	
146 1-Chlorohexane	55		7.947					ND	
85 3-Chlorobenzotrifluoride	180		7.953					ND	
86 4-Chlorobenzotrifluoride	180		8.014					ND	
87 Chlorobenzene	112		8.044					ND	
88 Ethylbenzene	91		8.111					ND	
89 1,1,1,2-Tetrachloroethane	131		8.123					ND	
90 m-Xylene & p-Xylene	106		8.226					ND	
91 o-Xylene	106		8.652					ND	
92 Styrene	104		8.677					ND	
93 2-Chlorobenzotrifluoride	180		8.932					ND	
95 Bromoform	173		8.950					ND	
94 Isopropylbenzene	105		9.023					ND	
96 Cyclohexanone	55		9.224					ND	
101 Bromobenzene	156		9.413					ND	
97 1,1,2,2-Tetrachloroethane	83		9.413					ND	
98 trans-1,4-Dichloro-2-buten	53		9.455					ND	
99 N-Propylbenzene	91		9.461					ND	
100 1,2,3-Trichloropropane	110		9.461					ND	
103 2-Chlorotoluene	126		9.589					ND	
102 1,3,5-Trimethylbenzene	105		9.632					ND	
104 3-Chlorotoluene	126		9.644					ND	
105 4-Chlorotoluene	126		9.692					ND	
106 tert-Butylbenzene	134		9.954					ND	
108 Pentachloroethane	167		10.033					ND	
109 sec-Butylbenzene	105		10.161					ND	
110 4-Isopropyltoluene	119		10.289					ND	
111 1,3-Dichlorobenzene	146		10.319					ND	
114 Dicyclopentadiene	66		10.392					ND	
113 1,4-Dichlorobenzene	146		10.404					ND	
112 1,2,3-Trimethylbenzene	105		10.417					ND	
150 Benzyl chloride	126		10.532					ND	
116 1,2-Dichlorobenzene	146		10.751					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.438					ND	
118 1,3,5-Trichlorobenzene	180		11.566					ND	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	90	3676		0.4383	
120 Hexachlorobutadiene	225		12.169					ND	
121 Naphthalene	128	12.290	12.290	0.000	95	13877		0.7529	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	92	3460		0.4508	
149 2-Methylnaphthalene	142	13.306	13.306	0.000	84	3790		0.3442	
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
S 124 Xylenes, Total	1		30.000					ND	
T 142 1-Bromopropane	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 140 bis(chloromethyl)ether TIC	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 129 tert-amyl alcohol TIC	59		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 131 Nitrobenzene	77		0.000					ND	
T 139 Bromoethane TIC	1		0.000					ND	
T 132 Methyl acrylate	1		0.000					ND	
T 141 Pentachloroethane TIC	1		0.000					ND	
T 138 Aziridine TIC	1		0.000					ND	
T 133 cis-1,4-Dichloro-2-butene	88		0.000					ND	
T 130 Hexachloroethane	117		0.000					ND	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

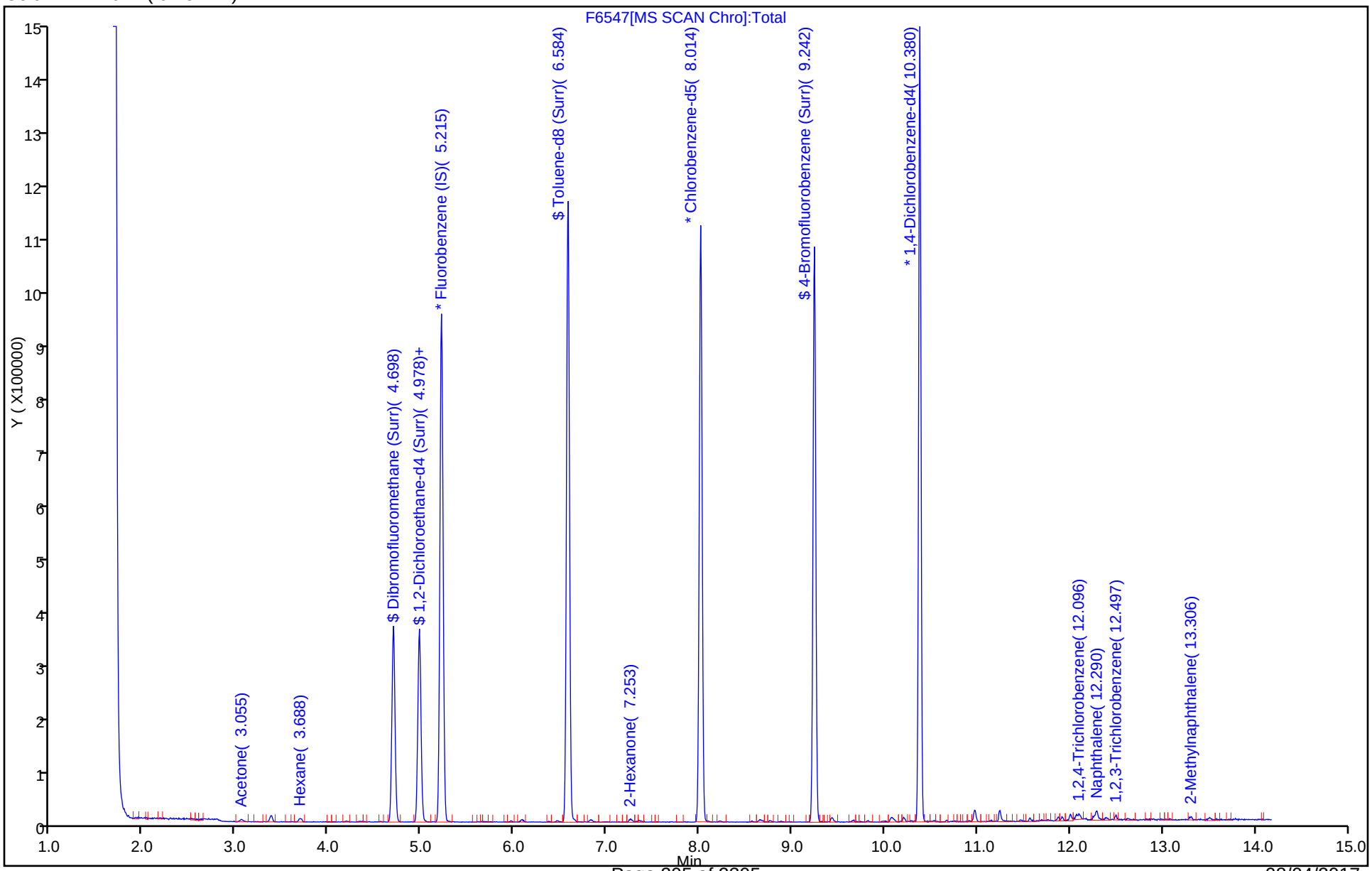
Report Date: 27-Jul-2017 12:00:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6547.D

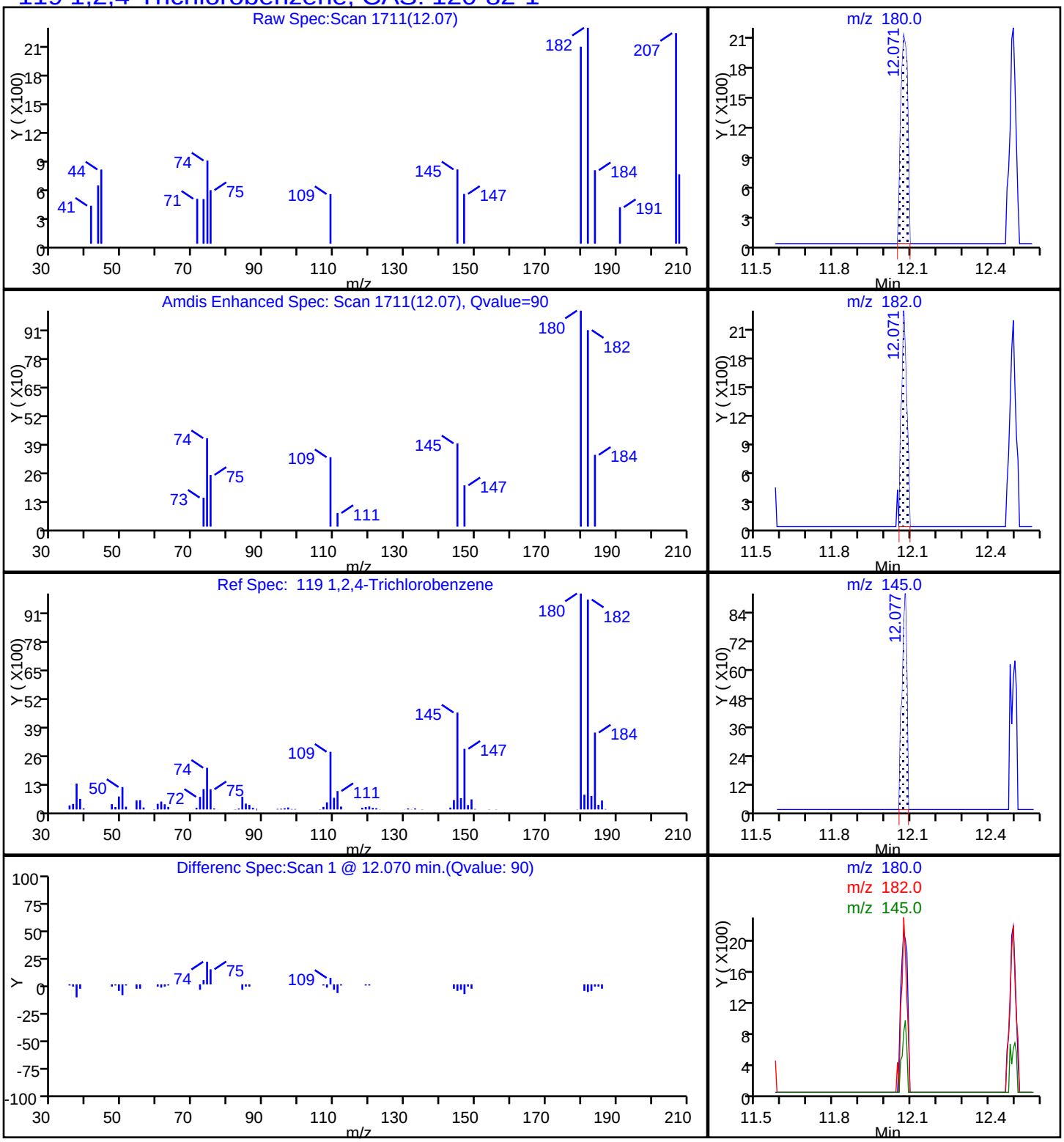
Injection Date:	27-Jul-2017 11:47:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	MB 480-369004/2-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6547.D
Injection Date: 27-Jul-2017 11:47:30 Instrument ID: HP5973F
Lims ID: MB 480-369004/2-A
Client ID:
Operator ID: AM/CDC ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

119 1,2,4-Trichlorobenzene, CAS: 120-82-1



Report Date: 27-Jul-2017 12:00:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6547.D

Injection Date: 27-Jul-2017 11:47:30 Instrument ID: HP5973F

Lims ID: MB 480-369004/2-A

Client ID:

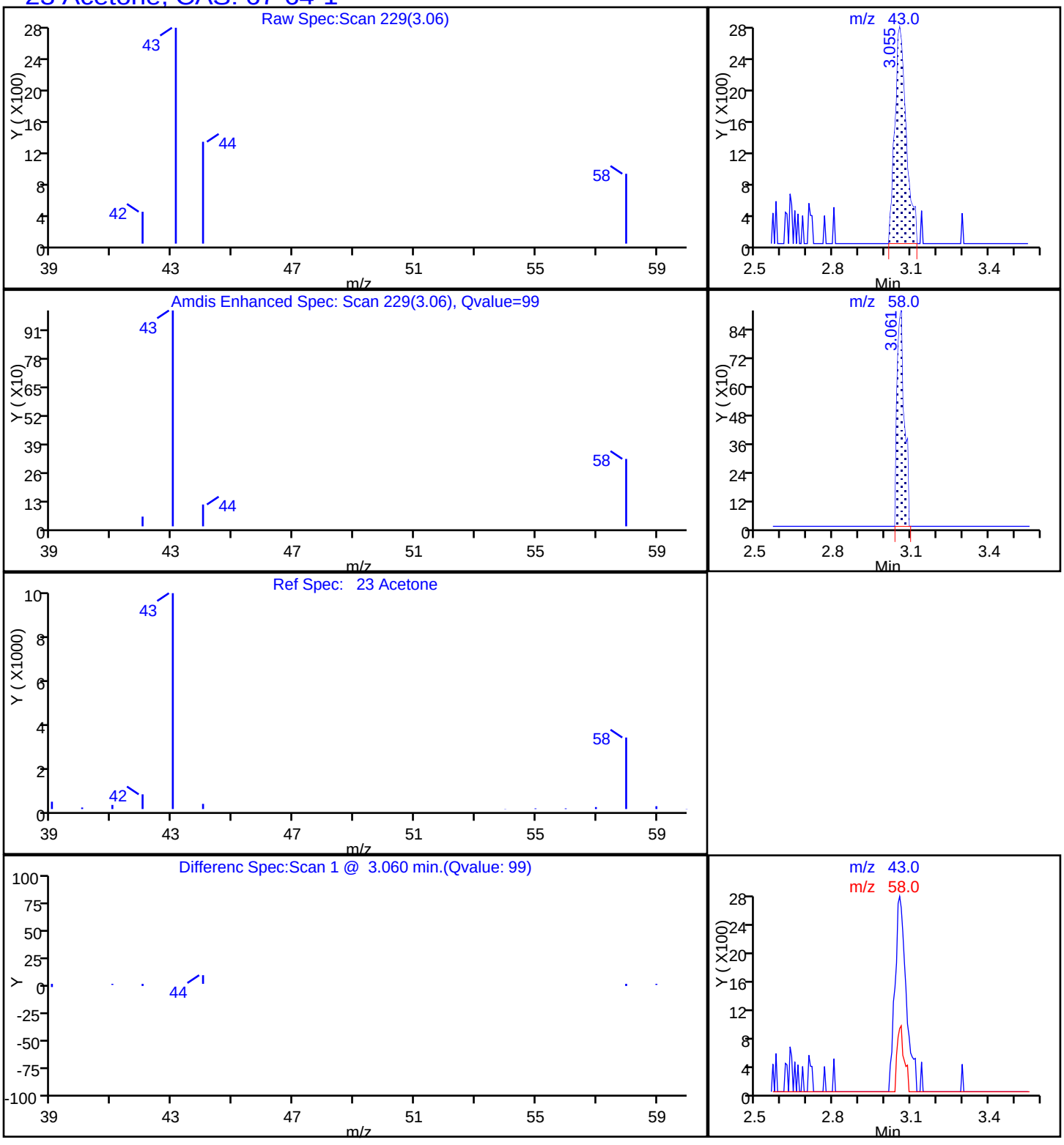
Operator ID: AM/CDC ALS Bottle#: 7 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: F-8260 SOIL Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368925/1-A

Matrix: Solid | Lab File ID: F6521.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/26/2017 22:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368916 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	50.6		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	52.7		5.0	0.81
79-00-5	1,1,2-Trichloroethane	48.7		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	49.3		5.0	1.1
75-34-3	1,1-Dichloroethane	49.4		5.0	0.61
75-35-4	1,1-Dichloroethene	50.0		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	45.6		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	54.2		5.0	2.5
106-93-4	1,2-Dibromoethane	48.7		5.0	0.64
95-50-1	1,2-Dichlorobenzene	48.4		5.0	0.39
107-06-2	1,2-Dichloroethane	49.4		5.0	0.25
78-87-5	1,2-Dichloropropane	48.5		5.0	2.5
541-73-1	1,3-Dichlorobenzene	48.9		5.0	0.26
106-46-7	1,4-Dichlorobenzene	48.6		5.0	0.70
591-78-6	2-Hexanone	266		25	2.5
78-93-3	2-Butanone (MEK)	268		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	252		25	1.6
67-64-1	Acetone	252		25	4.2
71-43-2	Benzene	49.2		5.0	0.25
75-27-4	Bromodichloromethane	53.4		5.0	0.67
75-25-2	Bromoform	46.6		5.0	2.5
74-83-9	Bromomethane	101		5.0	0.45
75-15-0	Carbon disulfide	44.1		5.0	2.5
56-23-5	Carbon tetrachloride	55.2		5.0	0.48
108-90-7	Chlorobenzene	46.9		5.0	0.66
124-48-1	Dibromochloromethane	47.5		5.0	0.64
75-00-3	Chloroethane	89.1		5.0	1.1
67-66-3	Chloroform	49.6		5.0	0.31
74-87-3	Chloromethane	53.3		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	49.7		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	50.5		5.0	0.72
110-82-7	Cyclohexane	48.2		5.0	0.70
75-71-8	Dichlorodifluoromethane	54.2		5.0	0.41
100-41-4	Ethylbenzene	48.9		5.0	0.35
98-82-8	Isopropylbenzene	48.9		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368925/1-A

Matrix: Solid | Lab File ID: F6521.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/26/2017 22:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368916 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	253		25	3.0
1634-04-4	Methyl tert-butyl ether	49.4		5.0	0.49
108-87-2	Methylcyclohexane	47.3		5.0	0.76
75-09-2	Methylene Chloride	50.8		5.0	2.3
100-42-5	Styrene	47.3		5.0	0.25
127-18-4	Tetrachloroethene	46.0		5.0	0.67
108-88-3	Toluene	47.0		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	49.0		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	50.9		5.0	2.2
79-01-6	Trichloroethene	48.3		5.0	1.1
75-69-4	Trichlorofluoromethane	58.5		5.0	0.47
75-01-4	Vinyl chloride	54.4		5.0	0.61
1330-20-7	Xylenes, Total	94.5		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-126
2037-26-5	Toluene-d8 (Surr)	95		71-125
460-00-4	4-Bromofluorobenzene (Surr)	102		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6521.D
Lims ID: LCS 480-368925/1-A
Client ID:
Sample Type: LCS
Inject. Date: 26-Jul-2017 22:09:30 ALS Bottle#: 25 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: SO Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 26-Jul-2017 22:25:28 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: o'briens Date: 26-Jul-2017 22:25:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	223897	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.013	8.014	-0.001	89	470790	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	463166	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.698	4.692	0.006	91	280685	50.0	47.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	181774	50.0	47.8	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	93	1053278	50.0	47.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.243	-0.001	87	383176	50.0	50.9	
10 Dichlorodifluoromethane	85	1.833	1.827	0.006	99	376685	50.0	54.2	
12 Chloromethane	50	1.960	1.954	0.006	99	311364	50.0	53.3	
13 Vinyl chloride	62	2.070	2.064	0.006	98	302121	50.0	54.4	
151 Butadiene	54	2.082	2.082	0.000	89	263902	50.0	52.7	
14 Bromomethane	94	2.356	2.344	0.012	92	197359	50.0	101.1	
15 Chloroethane	64	2.423	2.417	0.006	100	151928	50.0	89.1	
16 Dichlorofluoromethane	67	2.575	2.575	0.000	97	383369	50.0	58.9	
17 Trichlorofluoromethane	101	2.617	2.611	0.006	97	419799	50.0	58.5	
18 Ethyl ether	59	2.788	2.788	0.000	88	203703	50.0	55.1	
20 Acrolein	56	2.940	2.940	0.000	99	235737	250.0	255.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.982	2.970	0.012	93	295839	50.0	49.3	
22 1,1-Dichloroethene	96	3.001	2.995	0.006	97	271638	50.0	50.0	
23 Acetone	43	3.049	3.049	0.000	99	512845	250.0	252.1	
25 Iodomethane	142	3.153	3.147	0.006	99	530496	50.0	47.2	
26 Carbon disulfide	76	3.207	3.201	0.006	100	864987	50.0	44.1	
28 3-Chloro-1-propene	41	3.268	3.262	0.006	84	433861	50.0	48.6	
27 Methyl acetate	43	3.262	3.262	0.000	96	1003914	250.0	252.7	
30 Methylene Chloride	84	3.378	3.372	0.006	92	314128	50.0	50.8	
31 2-Methyl-2-propanol	59	3.433	3.427	0.005	98	298628	500.0	440.2	
32 Methyl tert-butyl ether	73	3.524	3.524	0.000	95	894992	50.0	49.4	
34 trans-1,2-Dichloroethene	96	3.560	3.554	0.006	98	305078	50.0	49.0	
33 Acrylonitrile	53	3.572	3.566	0.006	98	980517	500.0	500.4	
35 Hexane	57	3.694	3.688	0.006	92	427464	50.0	48.4	
37 Vinyl acetate	43	3.871	3.865	0.006	98	1078628	100.0	110.7	
39 1,1-Dichloroethane	63	3.883	3.883	0.000	96	538226	50.0	49.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
43 2-Butanone (MEK)	43	4.315	4.315	0.000	98	695555	250.0	268.3	
44 2,2-Dichloropropane	77	4.315	4.315	0.000	71	476178	50.0	50.1	
45 cis-1,2-Dichloroethene	96	4.327	4.327	0.000	82	341797	50.0	49.7	
48 Chlorobromomethane	128	4.528	4.528	0.000	91	158755	50.0	48.6	
49 Tetrahydrofuran	42	4.546	4.546	0.000	83	162828	100.0	100.1	
50 Chloroform	83	4.564	4.564	0.000	94	569665	50.0	49.6	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	503022	50.0	50.6	
52 Cyclohexane	56	4.734	4.728	0.006	90	465069	50.0	48.2	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	96	412758	50.0	49.3	
55 Carbon tetrachloride	117	4.832	4.832	0.000	97	419183	50.0	55.2	
53 Isobutyl alcohol	43	4.886	4.887	-0.001	92	318504	1250.0	1207.5	
57 Benzene	78	5.002	5.002	0.000	97	1142245	50.0	49.2	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	97	477220	50.0	49.4	
59 n-Heptane	43	5.099	5.100	-0.001	88	397147	50.0	45.5	
62 Trichloroethene	95	5.519	5.519	0.000	96	312278	50.0	48.3	
64 Methylcyclohexane	83	5.653	5.653	0.000	90	518267	50.0	47.3	
65 1,2-Dichloropropane	63	5.738	5.738	0.000	90	279313	50.0	48.5	
66 1,4-Dioxane	88	5.842	5.842	0.000	93	56738	1000.0	835.4	
67 Dibromomethane	93	5.866	5.866	0.000	95	195941	50.0	49.0	
68 Dichlorobromomethane	83	5.975	5.976	-0.001	99	389955	50.0	53.4	
69 2-Chloroethyl vinyl ether	63	6.182	6.188	-0.006	94	165325	50.0	49.1	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	95	473269	50.0	50.5	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1358888	250.0	252.4	
74 Toluene	92	6.645	6.645	0.000	98	731617	50.0	47.0	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	97	443487	50.0	50.9	
75 Ethyl methacrylate	69	6.876	6.870	0.006	88	377037	50.0	49.9	
79 1,1,2-Trichloroethane	83	7.064	7.065	-0.001	94	215240	50.0	48.7	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	326754	50.0	46.0	
82 1,3-Dichloropropane	76	7.223	7.223	0.000	97	450384	50.0	48.3	
80 2-Hexanone	43	7.247	7.241	0.006	97	1034806	250.0	266.0	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	277933	50.0	47.5	
84 Ethylene Dibromide	107	7.594	7.588	0.006	97	264457	50.0	48.7	
87 Chlorobenzene	112	8.044	8.044	0.000	93	801485	50.0	46.9	
88 Ethylbenzene	91	8.111	8.111	0.000	99	1391952	50.0	48.9	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	91	291060	50.0	52.7	
90 m-Xylene & p-Xylene	106	8.226	8.226	0.000	99	547587	50.0	47.7	
91 o-Xylene	106	8.658	8.658	0.000	97	526010	50.0	46.8	
92 Styrene	104	8.677	8.677	0.000	94	905831	50.0	47.3	
95 Bromoform	173	8.950	8.950	0.000	95	173893	50.0	46.6	
94 Isopropylbenzene	105	9.029	9.023	0.006	97	1387854	50.0	48.9	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	81	347242	50.0	52.7	
101 Bromobenzene	156	9.413	9.413	0.000	94	370120	50.0	48.0	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	59	110866	50.0	54.5	
99 N-Propylbenzene	91	9.461	9.461	0.000	98	1650671	50.0	49.9	
100 1,2,3-Trichloropropane	110	9.461	9.461	0.000	84	115423	50.0	51.6	
103 2-Chlorotoluene	126	9.589	9.589	0.000	96	325824	50.0	47.9	
102 1,3,5-Trimethylbenzene	105	9.632	9.632	0.000	93	1190761	50.0	48.7	
105 4-Chlorotoluene	126	9.693	9.693	-0.001	99	349033	50.0	48.8	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	267591	50.0	47.4	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	1248592	50.0	49.5	
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1521221	50.0	49.3	
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	1294882	50.0	49.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	728130	50.0	48.9	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	94	730152	50.0	48.6	
115 n-Butylbenzene	91	10.666	10.666	0.000	97	1217386	50.0	50.1	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	96	686263	50.0	48.4	
117 1,2-Dibromo-3-Chloropropan	75	11.438	11.439	-0.001	83	68094	50.0	54.2	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	441965	50.0	45.6	
120 Hexachlorobutadiene	225	12.169	12.169	0.000	98	249630	50.0	43.7	
121 Naphthalene	128	12.290	12.290	0.000	97	1010951	50.0	47.5	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	95	386756	50.0	43.6	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

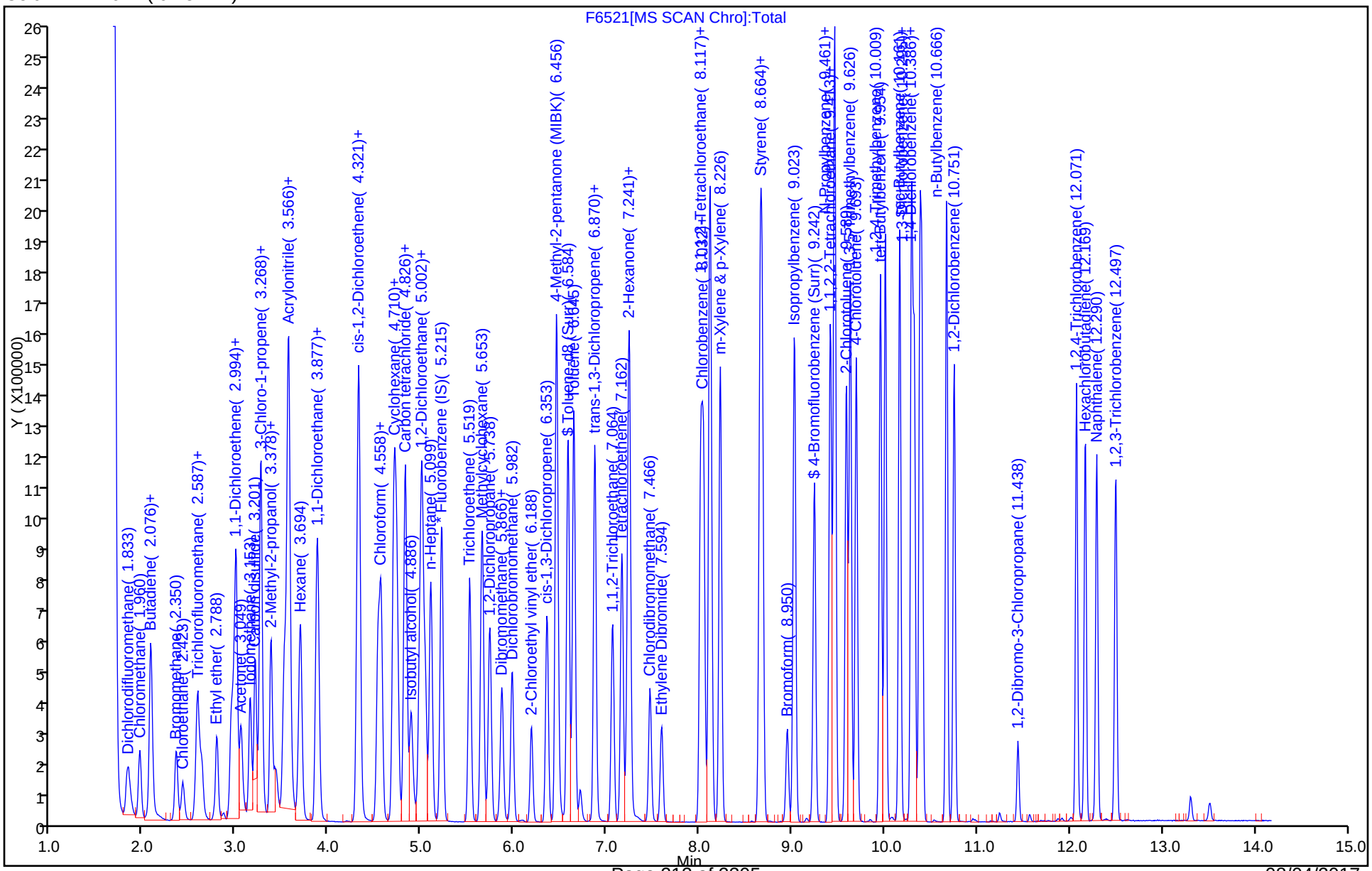
Report Date: 26-Jul-2017 22:25:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170726-64365.b\F6521.D

Injection Date:	26-Jul-2017 22:09:30	Instrument ID:	HP5973F	Operator ID:	SO
Lims ID:	LCS 480-368925/1-A			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-369004/1-A

Matrix: Solid | Lab File ID: F6545.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 10:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	44.2		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	51.3		5.0	0.81
79-00-5	1,1,2-Trichloroethane	48.2		5.0	0.65
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	38.1		5.0	1.1
75-34-3	1,1-Dichloroethane	46.8		5.0	0.61
75-35-4	1,1-Dichloroethene	42.4		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	44.0		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	49.9		5.0	2.5
106-93-4	1,2-Dibromoethane	48.8		5.0	0.64
95-50-1	1,2-Dichlorobenzene	46.9		5.0	0.39
107-06-2	1,2-Dichloroethane	48.3		5.0	0.25
78-87-5	1,2-Dichloropropane	47.1		5.0	2.5
541-73-1	1,3-Dichlorobenzene	46.9		5.0	0.26
106-46-7	1,4-Dichlorobenzene	47.3		5.0	0.70
591-78-6	2-Hexanone	252		25	2.5
78-93-3	2-Butanone (MEK)	258		25	1.8
108-10-1	4-Methyl-2-pentanone (MIBK)	248		25	1.6
67-64-1	Acetone	260		25	4.2
71-43-2	Benzene	45.8		5.0	0.25
75-27-4	Bromodichloromethane	52.2		5.0	0.67
75-25-2	Bromoform	44.2		5.0	2.5
74-83-9	Bromomethane	70.0		5.0	0.45
75-15-0	Carbon disulfide	37.7		5.0	2.5
56-23-5	Carbon tetrachloride	46.2		5.0	0.48
108-90-7	Chlorobenzene	45.8		5.0	0.66
124-48-1	Dibromochloromethane	47.4		5.0	0.64
75-00-3	Chloroethane	69.3		5.0	1.1
67-66-3	Chloroform	47.7		5.0	0.31
74-87-3	Chloromethane	46.6		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	47.9		5.0	0.64
10061-01-5	cis-1,3-Dichloropropene	48.1		5.0	0.72
110-82-7	Cyclohexane	38.4		5.0	0.70
75-71-8	Dichlorodifluoromethane	35.1		5.0	0.41
100-41-4	Ethylbenzene	46.1		5.0	0.35
98-82-8	Isopropylbenzene	45.0		5.0	0.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-369004/1-A

Matrix: Solid | Lab File ID: F6545.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 07/27/2017 10:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	262		25	3.0
1634-04-4	Methyl tert-butyl ether	48.7		5.0	0.49
108-87-2	Methylcyclohexane	36.9		5.0	0.76
75-09-2	Methylene Chloride	50.6		5.0	2.3
100-42-5	Styrene	46.0		5.0	0.25
127-18-4	Tetrachloroethene	41.0		5.0	0.67
108-88-3	Toluene	45.2		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	45.3		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	50.7		5.0	2.2
79-01-6	Trichloroethene	43.8		5.0	1.1
75-69-4	Trichlorofluoromethane	42.8		5.0	0.47
75-01-4	Vinyl chloride	44.3		5.0	0.61
1330-20-7	Xylenes, Total	89.9		10	0.84

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		64-126
2037-26-5	Toluene-d8 (Surr)	95		71-125
460-00-4	4-Bromofluorobenzene (Surr)	104		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6545.D
Lims ID: LCS 480-369004/1-A
Client ID:
Sample Type: LCS
Inject. Date: 27-Jul-2017 10:55:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0064372-005
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 11:07:35 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 27-Jul-2017 11:07:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	225492	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	458664	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	455103	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.692	4.692	0.000	92	275805	50.0	46.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	173805	50.0	45.4	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	1031702	50.0	47.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	95	380253	50.0	51.8	
10 Dichlorodifluoromethane	85	1.827	1.833	-0.005	99	245836	50.0	35.1	
12 Chloromethane	50	1.954	1.954	0.000	99	274205	50.0	46.6	
13 Vinyl chloride	62	2.064	2.064	0.000	98	247637	50.0	44.3	
151 Butadiene	54	2.076	2.082	-0.006	92	201182	50.0	39.9	
14 Bromomethane	94	2.344	2.344	0.000	92	137555	50.0	70.0	
15 Chloroethane	64	2.417	2.417	0.000	100	119713	50.0	69.3	
16 Dichlorofluoromethane	67	2.569	2.575	-0.006	97	328997	50.0	50.2	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	98	309527	50.0	42.8	
18 Ethyl ether	59	2.782	2.788	-0.006	89	190700	50.0	51.2	
20 Acrolein	56	2.934	2.940	-0.006	99	149669	250.0	160.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.976	-0.006	94	230337	50.0	38.1	
22 1,1-Dichloroethene	96	2.995	2.994	0.001	97	231874	50.0	42.4	
23 Acetone	43	3.043	3.049	-0.006	100	533049	250.0	260.2	
25 Iodomethane	142	3.141	3.147	-0.006	99	500179	50.0	44.2	
26 Carbon disulfide	76	3.201	3.201	0.000	100	744338	50.0	37.7	
27 Methyl acetate	43	3.256	3.262	-0.006	96	1047561	250.0	261.9	
28 3-Chloro-1-propene	41	3.262	3.262	0.000	87	401716	50.0	44.7	
30 Methylene Chloride	84	3.372	3.372	0.000	92	314969	50.0	50.6	
31 2-Methyl-2-propanol	59	3.427	3.426	0.001	98	313183	500.0	458.4	
32 Methyl tert-butyl ether	73	3.518	3.524	-0.006	95	888017	50.0	48.7	
34 trans-1,2-Dichloroethene	96	3.554	3.554	0.000	98	283815	50.0	45.3	
33 Acrylonitrile	53	3.567	3.566	0.000	97	902013	500.0	457.1	
35 Hexane	57	3.688	3.688	0.000	92	328353	50.0	36.9	
37 Vinyl acetate	43	3.865	3.871	-0.005	98	664660	100.0	67.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	3.877	3.883	-0.006	96	513518	50.0	46.8	
44 2,2-Dichloropropane	77	4.309	4.315	-0.006	90	420188	50.0	43.9	
43 2-Butanone (MEK)	43	4.309	4.315	-0.006	98	674197	250.0	258.2	
45 cis-1,2-Dichloroethene	96	4.321	4.327	-0.006	83	331929	50.0	47.9	
48 Chlorobromomethane	128	4.528	4.528	0.000	92	158122	50.0	48.0	
49 Tetrahydrofuran	42	4.546	4.546	0.000	85	156354	100.0	95.4	
50 Chloroform	83	4.558	4.564	-0.006	94	550819	50.0	47.7	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	442785	50.0	44.2	
52 Cyclohexane	56	4.728	4.728	0.000	90	373458	50.0	38.4	
54 1,1-Dichloropropene	75	4.820	4.820	0.000	95	363431	50.0	43.1	
55 Carbon tetrachloride	117	4.832	4.826	0.006	97	353136	50.0	46.2	
53 Isobutyl alcohol	43	4.887	4.886	0.001	92	311917	1250.0	1174.2	
57 Benzene	78	5.002	5.002	0.000	97	1071226	50.0	45.8	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	98	469121	50.0	48.3	
59 n-Heptane	43	5.100	5.099	0.001	90	307641	50.0	35.0	
62 Trichloroethene	95	5.519	5.519	0.000	96	285343	50.0	43.8	
64 Methylcyclohexane	83	5.653	5.653	0.000	90	407161	50.0	36.9	
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	91	273113	50.0	47.1	
66 1,4-Dioxane	88	5.842	5.854	-0.012	89	44209	1000.0	674.3	
67 Dibromomethane	93	5.866	5.866	0.000	95	193242	50.0	48.0	
68 Dichlorobromomethane	83	5.976	5.982	-0.006	99	384438	50.0	52.2	
69 2-Chloroethyl vinyl ether	63	6.189	6.188	0.001	93	157109	50.0	46.3	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	454221	50.0	48.1	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	1302457	250.0	248.3	
74 Toluene	92	6.645	6.645	0.000	98	685688	50.0	45.2	
75 Ethyl methacrylate	69	6.876	6.870	0.006	89	306863	50.0	41.7	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	97	430593	50.0	50.7	
79 1,1,2-Trichloroethane	83	7.065	7.064	0.001	94	207591	50.0	48.2	
81 Tetrachloroethene	166	7.162	7.162	0.000	95	283885	50.0	41.0	
82 1,3-Dichloropropane	76	7.229	7.229	0.000	98	438993	50.0	48.3	
80 2-Hexanone	43	7.241	7.247	-0.006	94	956341	250.0	252.4	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	270523	50.0	47.4	
84 Ethylene Dibromide	107	7.594	7.594	0.000	97	258035	50.0	48.8	
87 Chlorobenzene	112	8.044	8.044	0.000	93	763900	50.0	45.8	
88 Ethylbenzene	91	8.111	8.111	0.000	98	1277453	50.0	46.1	
89 1,1,1,2-Tetrachloroethane	131	8.123	8.123	0.000	91	280809	50.0	52.2	
90 m-Xylene & p-Xylene	106	8.227	8.226	0.001	99	500720	50.0	44.8	
91 o-Xylene	106	8.652	8.652	0.000	97	494306	50.0	45.1	
92 Styrene	104	8.677	8.677	0.000	93	857777	50.0	46.0	
95 Bromoform	173	8.950	8.950	0.000	94	160038	50.0	44.2	
94 Isopropylbenzene	105	9.023	9.023	0.000	97	1254108	50.0	45.0	
101 Bromobenzene	156	9.413	9.413	0.000	94	356470	50.0	47.0	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	79	331722	50.0	51.3	
98 trans-1,4-Dichloro-2-buten	53	9.455	9.455	0.000	58	103889	50.0	51.9	
99 N-Propylbenzene	91	9.461	9.461	0.000	98	1488721	50.0	45.8	
100 1,2,3-Trichloropropane	110	9.468	9.461	0.007	82	109564	50.0	49.8	
103 2-Chlorotoluene	126	9.589	9.589	0.000	95	308357	50.0	46.2	
102 1,3,5-Trimethylbenzene	105	9.632	9.632	0.000	93	1105503	50.0	46.0	
105 4-Chlorotoluene	126	9.693	9.692	0.001	99	325668	50.0	46.3	
106 tert-Butylbenzene	134	9.954	9.954	0.000	91	239516	50.0	43.2	
107 1,2,4-Trimethylbenzene	105	10.009	10.009	0.000	97	1154180	50.0	46.6	
109 sec-Butylbenzene	105	10.161	10.161	0.000	95	1334291	50.0	44.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.289	10.289	0.000	95	1156884	50.0	44.8	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	686258	50.0	46.9	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	95	698055	50.0	47.3	
115 n-Butylbenzene	91	10.666	10.672	-0.006	98	1063527	50.0	44.5	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	652320	50.0	46.9	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.438	0.001	83	61612	50.0	49.9	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	419203	50.0	44.0	
120 Hexachlorobutadiene	225	12.169	12.169	0.001	97	208426	50.0	37.1	
121 Naphthalene	128	12.290	12.290	0.000	98	965266	50.0	46.1	
122 1,2,3-Trichlorobenzene	180	12.497	12.497	0.000	94	377938	50.0	43.4	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

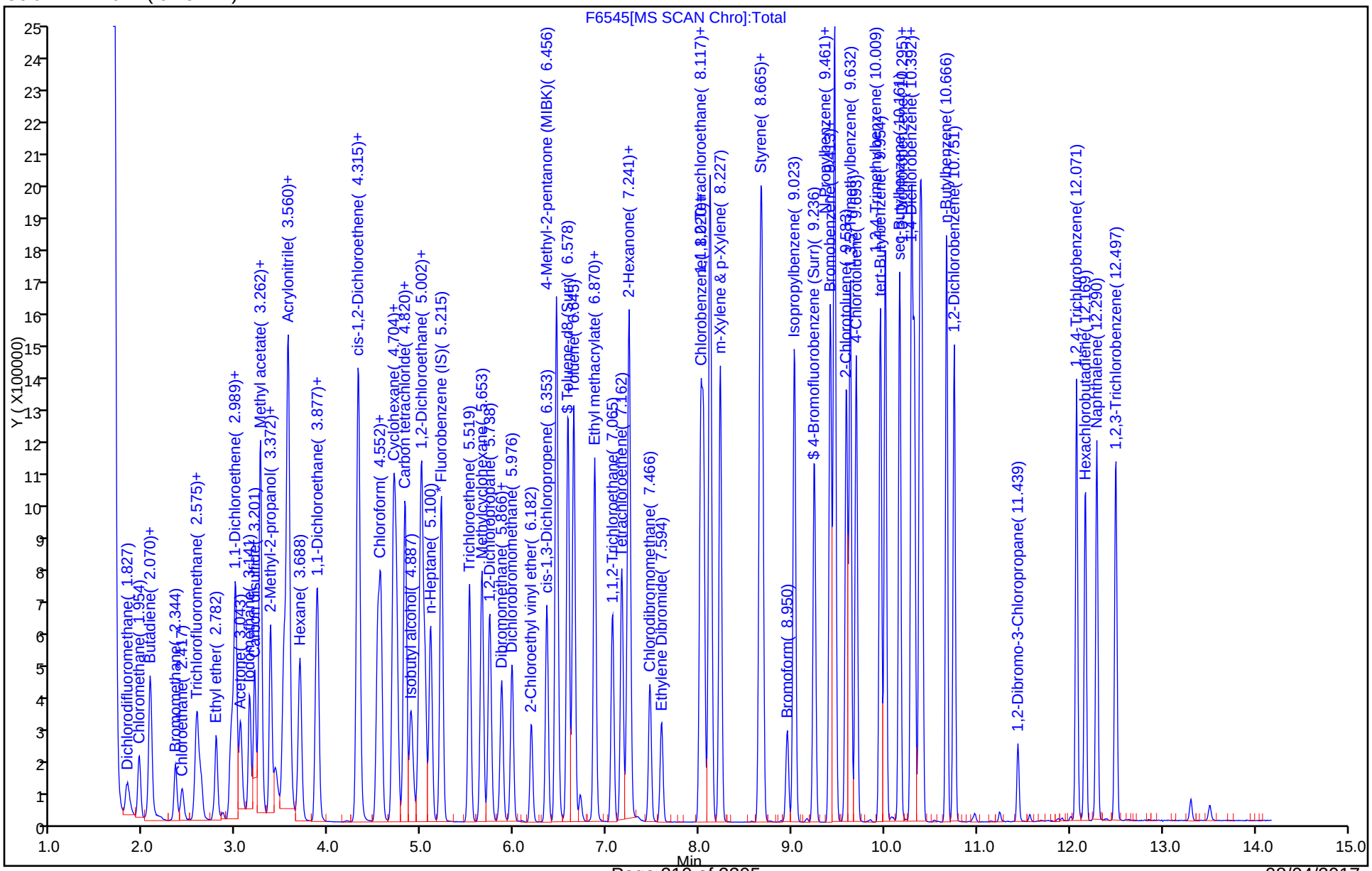
Report Date: 27-Jul-2017 11:07:36 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6545.D

Injection Date:	27-Jul-2017 10:55:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	LCS 480-369004/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS | Lab Sample ID: 480-121501-3 MS

Matrix: Solid | Lab File ID: F6562.D

Analysis Method: 8260C | Date Collected: 07/21/2017 11:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/27/2017 18:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 18.8 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	52.6		6.1	0.45
79-34-5	1,1,2,2-Tetrachloroethane	48.6		6.1	1.0
79-00-5	1,1,2-Trichloroethane	49.7		6.1	0.80
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	49.1		6.1	1.4
75-34-3	1,1-Dichloroethane	56.1		6.1	0.75
75-35-4	1,1-Dichloroethene	52.6		6.1	0.75
120-82-1	1,2,4-Trichlorobenzene	33.6		6.1	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	36.9		6.1	3.1
106-93-4	1,2-Dibromoethane	45.4		6.1	0.79
95-50-1	1,2-Dichlorobenzene	47.4		6.1	0.48
107-06-2	1,2-Dichloroethane	50.1		6.1	0.31
78-87-5	1,2-Dichloropropane	52.8		6.1	3.1
541-73-1	1,3-Dichlorobenzene	48.8		6.1	0.32
106-46-7	1,4-Dichlorobenzene	48.2		6.1	0.86
591-78-6	2-Hexanone	205		31	3.1
78-93-3	2-Butanone (MEK)	188		31	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	211		31	2.0
67-64-1	Acetone	189		31	5.2
71-43-2	Benzene	54.4		6.1	0.30
75-27-4	Bromodichloromethane	56.2		6.1	0.82
75-25-2	Bromoform	37.7		6.1	3.1
74-83-9	Bromomethane	102		6.1	0.55
75-15-0	Carbon disulfide	41.3		6.1	3.1
56-23-5	Carbon tetrachloride	54.1		6.1	0.59
108-90-7	Chlorobenzene	49.9		6.1	0.81
124-48-1	Dibromochloromethane	46.0		6.1	0.79
75-00-3	Chloroethane	97.9		6.1	1.4
67-66-3	Chloroform	55.8		6.1	0.38
74-87-3	Chloromethane	57.8		6.1	0.37
156-59-2	cis-1,2-Dichloroethene	53.6		6.1	0.79
10061-01-5	cis-1,3-Dichloropropene	47.5		6.1	0.88
110-82-7	Cyclohexane	46.4		6.1	0.86
75-71-8	Dichlorodifluoromethane	49.2		6.1	0.51
100-41-4	Ethylbenzene	52.8		6.1	0.42
98-82-8	Isopropylbenzene	54.0		6.1	0.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS | Lab Sample ID: 480-121501-3 MS

Matrix: Solid | Lab File ID: F6562.D

Analysis Method: 8260C | Date Collected: 07/21/2017 11:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/27/2017 18:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 18.8 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	197		31	3.7
1634-04-4	Methyl tert-butyl ether	48.0		6.1	0.60
108-87-2	Methylcyclohexane	42.1		6.1	0.93
75-09-2	Methylene Chloride	59.4		6.1	2.8
100-42-5	Styrene	48.2		6.1	0.31
127-18-4	Tetrachloroethene	45.9		6.1	0.82
108-88-3	Toluene	52.5		6.1	0.46
156-60-5	trans-1,2-Dichloroethene	52.4		6.1	0.63
10061-02-6	trans-1,3-Dichloropropene	48.2		6.1	2.7
79-01-6	Trichloroethene	50.1		6.1	1.4
75-69-4	Trichlorofluoromethane	61.3		6.1	0.58
75-01-4	Vinyl chloride	57.8		6.1	0.75
1330-20-7	Xylenes, Total	101		12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	77		64-126
2037-26-5	Toluene-d8 (Surr)	94		71-125
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6562.D
Lims ID: 480-121501-D-3-D MS
Client ID: TP-11
Sample Type: MS
Inject. Date: 27-Jul-2017 18:21:30 ALS Bottle#: 15 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121501-D-3-D MS
Misc. Info.: 480-0064372-022
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 16:31:36 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: o'briens Date: 27-Jul-2017 18:33:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	199303	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	397303	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	365890	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	130117	50.0	38.4	
$ 5 Toluene-d8 (Surr)	98	6.584	6.578	0.006	94	886179	50.0	47.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.242	9.242	0.000	87	315244	50.0	49.6	
10 Dichlorodifluoromethane	85	1.827	1.833	-0.006	99	248267	50.0	40.1	
12 Chloromethane	50	1.966	1.954	0.012	99	244906	50.0	47.1	
13 Vinyl chloride	62	2.076	2.064	0.012	98	232488	50.0	47.1	
14 Bromomethane	94	2.350	2.344	0.006	91	143965	50.0	82.8	
15 Chloroethane	64	2.423	2.417	0.006	100	121393	50.0	79.8	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	99	319237	50.0	50.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.976	2.976	0.000	94	213366	50.0	40.0	
22 1,1-Dichloroethene	96	3.001	2.994	0.007	97	206983	50.0	42.8	
23 Acetone	43	3.049	3.049	0.000	99	279384	250.0	154.3	
26 Carbon disulfide	76	3.201	3.201	0.000	100	588146	50.0	33.7	
27 Methyl acetate	43	3.262	3.262	0.000	95	568624	250.0	160.8	
30 Methylene Chloride	84	3.372	3.372	0.000	91	266946	50.0	48.4	
32 Methyl tert-butyl ether	73	3.524	3.524	0.000	96	630363	50.0	39.1	
34 trans-1,2-Dichloroethene	96	3.560	3.554	0.006	97	236568	50.0	42.7	
39 1,1-Dichloroethane	63	3.883	3.883	0.000	96	442702	50.0	45.7	
43 2-Butanone (MEK)	43	4.315	4.315	0.000	98	353997	250.0	153.4	
45 cis-1,2-Dichloroethene	96	4.327	4.327	0.000	84	267452	50.0	43.7	
50 Chloroform	83	4.564	4.564	0.000	94	464751	50.0	45.5	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	379066	50.0	42.8	
52 Cyclohexane	56	4.734	4.728	0.006	90	324369	50.0	37.8	
55 Carbon tetrachloride	117	4.832	4.826	0.006	98	297898	50.0	44.1	
57 Benzene	78	5.002	5.002	0.000	97	915477	50.0	44.3	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	97	350872	50.0	40.8	
62 Trichloroethene	95	5.519	5.519	0.000	95	234745	50.0	40.8	
64 Methylcyclohexane	83	5.653	5.653	0.000	90	334375	50.0	34.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63	5.738	5.738	0.000	89	220513	50.0	43.0	
68 Dichlorobromomethane	83	5.976	5.982	-0.006	99	297606	50.0	45.8	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	323348	50.0	38.7	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	96	781499	250.0	172.0	
74 Toluene	92	6.645	6.645	0.000	98	562454	50.0	42.8	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	98	288778	50.0	39.3	
79 1,1,2-Trichloroethane	83	7.064	7.064	0.000	93	150907	50.0	40.5	
81 Tetrachloroethene	166	7.162	7.162	0.000	94	224129	50.0	37.4	
80 2-Hexanone	43	7.247	7.247	0.000	96	549213	250.0	167.3	
83 Chlorodibromomethane	129	7.466	7.466	0.000	90	181967	50.0	37.5	
84 Ethylene Dibromide	107	7.594	7.594	0.000	99	169581	50.0	37.0	
87 Chlorobenzene	112	8.044	8.044	0.000	93	586904	50.0	40.7	
88 Ethylbenzene	91	8.111	8.111	0.000	99	1032188	50.0	43.0	
90 m-Xylene & p-Xylene	106	8.226	8.226	0.000	99	403140		41.6	
91 o-Xylene	106	8.658	8.652	0.006	97	388036		40.9	
92 Styrene	104	8.677	8.677	0.000	94	634096	50.0	39.3	
95 Bromoform	173	8.950	8.950	0.000	94	91900	50.0	30.7	
94 Isopropylbenzene	105	9.023	9.023	0.000	97	985982	50.0	44.0	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	73	206066	50.0	39.6	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	467620	50.0	39.8	
113 1,4-Dichlorobenzene	146	10.404	10.404	0.000	95	465838	50.0	39.3	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	431802	50.0	38.6	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.438	0.001	80	29850	50.0	30.0	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	94	209302	50.0	27.3	
S 124 Xylenes, Total	1				0			82.5	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

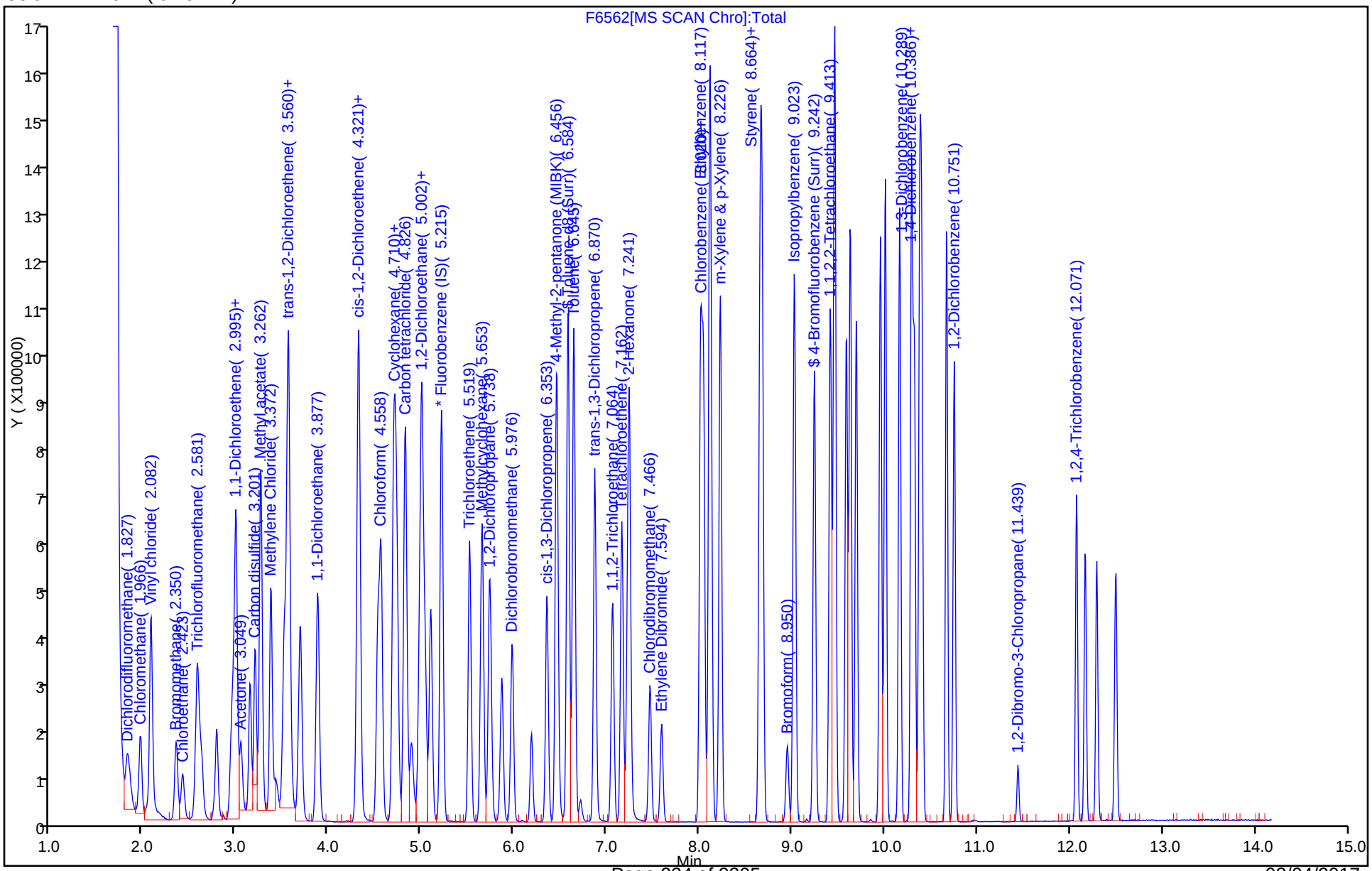
Report Date: 27-Jul-2017 18:33:51 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6562.D

Injection Date:	27-Jul-2017 18:21:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121501-D-3-D MS			Worklist Smp#:	22
Client ID:	TP-11				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD | Lab Sample ID: 480-121501-3 MSD

Matrix: Solid | Lab File ID: F6563.D

Analysis Method: 8260C | Date Collected: 07/21/2017 11:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/27/2017 18:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 18.8 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	53.9		6.1	0.45
79-34-5	1,1,2,2-Tetrachloroethane	50.1		6.1	1.0
79-00-5	1,1,2-Trichloroethane	49.8		6.1	0.80
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	49.1		6.1	1.4
75-34-3	1,1-Dichloroethane	57.7		6.1	0.75
75-35-4	1,1-Dichloroethene	52.7		6.1	0.75
120-82-1	1,2,4-Trichlorobenzene	32.2		6.1	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	37.8		6.1	3.1
106-93-4	1,2-Dibromoethane	45.4		6.1	0.79
95-50-1	1,2-Dichlorobenzene	47.4		6.1	0.48
107-06-2	1,2-Dichloroethane	51.5		6.1	0.31
78-87-5	1,2-Dichloropropane	55.0		6.1	3.1
541-73-1	1,3-Dichlorobenzene	48.6		6.1	0.32
106-46-7	1,4-Dichlorobenzene	48.4		6.1	0.86
591-78-6	2-Hexanone	197		31	3.1
78-93-3	2-Butanone (MEK)	186		31	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	209		31	2.0
67-64-1	Acetone	187		31	5.2
71-43-2	Benzene	55.9		6.1	0.30
75-27-4	Bromodichloromethane	57.6		6.1	0.82
75-25-2	Bromoform	38.4		6.1	3.1
74-83-9	Bromomethane	104		6.1	0.55
75-15-0	Carbon disulfide	40.3		6.1	3.1
56-23-5	Carbon tetrachloride	55.3		6.1	0.59
108-90-7	Chlorobenzene	49.8		6.1	0.81
124-48-1	Dibromochloromethane	47.1		6.1	0.79
75-00-3	Chloroethane	97.9		6.1	1.4
67-66-3	Chloroform	56.7		6.1	0.38
74-87-3	Chloromethane	60.1		6.1	0.37
156-59-2	cis-1,2-Dichloroethene	55.2		6.1	0.79
10061-01-5	cis-1,3-Dichloropropene	48.3		6.1	0.88
110-82-7	Cyclohexane	45.0		6.1	0.86
75-71-8	Dichlorodifluoromethane	49.2		6.1	0.51
100-41-4	Ethylbenzene	52.5		6.1	0.42
98-82-8	Isopropylbenzene	55.1		6.1	0.93

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD | Lab Sample ID: 480-121501-3 MSD

Matrix: Solid | Lab File ID: F6563.D

Analysis Method: 8260C | Date Collected: 07/21/2017 11:00

Sample wt/vol: 5.02(g) | Date Analyzed: 07/27/2017 18:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) ID: 0.25(mm)

% Moisture: 18.8 | Level: (low/med) Low

Analysis Batch No.: 368964 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	199		31	3.7
1634-04-4	Methyl tert-butyl ether	50.1		6.1	0.60
108-87-2	Methylcyclohexane	40.0		6.1	0.93
75-09-2	Methylene Chloride	60.5		6.1	2.8
100-42-5	Styrene	48.2		6.1	0.31
127-18-4	Tetrachloroethene	46.0		6.1	0.82
108-88-3	Toluene	53.3		6.1	0.46
156-60-5	trans-1,2-Dichloroethene	54.5		6.1	0.63
10061-02-6	trans-1,3-Dichloropropene	48.3		6.1	2.7
79-01-6	Trichloroethene	50.4		6.1	1.4
75-69-4	Trichlorofluoromethane	61.2		6.1	0.58
75-01-4	Vinyl chloride	59.1		6.1	0.75
1330-20-7	Xylenes, Total	101		12	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	75		64-126
2037-26-5	Toluene-d8 (Surr)	94		71-125
460-00-4	4-Bromofluorobenzene (Surr)	99		72-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6563.D
Lims ID: 480-121501-D-3-E MSD
Client ID: TP-11
Sample Type: MSD
Inject. Date: 27-Jul-2017 18:47:30 ALS Bottle#: 16 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-121501-D-3-E MSD
Misc. Info.: 480-0064372-023
Operator ID: AM/CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 27-Jul-2017 16:57:24 Calib Date: 20-Jul-2017 17:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20170720-64196.b\F6340.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: o'briens Date: 27-Jul-2017 19:21:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.215	5.215	0.000	98	204789	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.014	8.014	0.000	89	411777	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.380	10.380	0.000	95	365406	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.978	4.978	0.000	0	131148	50.0	37.7	
$ 5 Toluene-d8 (Surr)	98	6.578	6.578	0.000	94	917961	50.0	47.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.243	9.242	0.001	87	325268	50.0	49.4	
10 Dichlorodifluoromethane	85	1.833	1.833	0.001	99	254874	50.0	40.1	
12 Chloromethane	50	1.967	1.954	0.013	99	261367	50.0	48.9	
13 Vinyl chloride	62	2.076	2.064	0.012	98	244474	50.0	48.2	
14 Bromomethane	94	2.356	2.344	0.012	92	151569	50.0	84.9	
15 Chloroethane	64	2.423	2.417	0.006	100	124657	50.0	79.7	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	98	327058	50.0	49.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.976	-0.006	94	219505	50.0	40.0	
22 1,1-Dichloroethene	96	2.995	2.994	0.001	97	213310	50.0	43.0	
23 Acetone	43	3.050	3.049	0.001	99	283839	250.0	152.5	
26 Carbon disulfide	76	3.202	3.201	0.001	100	589293	50.0	32.8	
27 Methyl acetate	43	3.262	3.262	0.000	95	588180	250.0	161.9	
30 Methylene Chloride	84	3.372	3.372	0.000	92	279019	50.0	49.3	
32 Methyl tert-butyl ether	73	3.524	3.524	0.000	96	676876	50.0	40.8	
34 trans-1,2-Dichloroethene	96	3.561	3.554	0.007	97	252887	50.0	44.4	
39 1,1-Dichloroethane	63	3.883	3.883	0.000	97	467981	50.0	47.0	
43 2-Butanone (MEK)	43	4.315	4.315	0.000	89	359590	250.0	151.6	
45 cis-1,2-Dichloroethene	96	4.327	4.327	0.000	84	283089	50.0	45.0	
50 Chloroform	83	4.564	4.564	0.000	94	484953	50.0	46.2	
51 1,1,1-Trichloroethane	97	4.704	4.704	0.000	98	399083	50.0	43.9	
52 Cyclohexane	56	4.729	4.728	0.001	90	323734	50.0	36.7	
55 Carbon tetrachloride	117	4.832	4.826	0.006	98	312786	50.0	45.1	
57 Benzene	78	5.002	5.002	0.000	97	966502	50.0	45.5	
58 1,2-Dichloroethane	62	5.039	5.039	0.000	98	370524	50.0	42.0	
62 Trichloroethene	95	5.519	5.519	0.000	95	242832	50.0	41.1	
64 Methylcyclohexane	83	5.653	5.653	0.000	89	326457	50.0	32.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
65 1,2-Dichloropropane	63	5.732	5.738	-0.006	90	236051	50.0	44.8	
68 Dichlorobromomethane	83	5.976	5.982	-0.006	99	313439	50.0	46.9	
72 cis-1,3-Dichloropropene	75	6.353	6.353	0.000	94	337960	50.0	39.4	
73 4-Methyl-2-pentanone (MIBK	43	6.456	6.456	0.000	95	803052	250.0	170.5	
74 Toluene	92	6.645	6.645	0.000	98	591939	50.0	43.5	
77 trans-1,3-Dichloropropene	75	6.870	6.870	0.000	98	299763	50.0	39.3	
79 1,1,2-Trichloroethane	83	7.065	7.064	0.001	93	156783	50.0	40.6	
81 Tetrachloroethene	166	7.162	7.162	0.000	94	232706	50.0	37.5	
80 2-Hexanone	43	7.247	7.247	0.000	95	546449	250.0	160.6	
83 Chlorodibromomethane	129	7.466	7.466	0.000	89	193628	50.0	38.4	
84 Ethylene Dibromide	107	7.594	7.594	0.000	98	175844	50.0	37.0	
87 Chlorobenzene	112	8.044	8.044	0.000	93	607519	50.0	40.6	
88 Ethylbenzene	91	8.111	8.111	0.000	98	1064640	50.0	42.8	
90 m-Xylene & p-Xylene	106	8.227	8.226	0.001	99	409722		40.8	
91 o-Xylene	106	8.659	8.652	0.007	97	404051		41.1	
92 Styrene	104	8.677	8.677	0.000	94	657467	50.0	39.3	
95 Bromoform	173	8.951	8.950	0.001	94	97329	50.0	31.3	
94 Isopropylbenzene	105	9.024	9.023	0.001	97	1004549	50.0	44.9	
97 1,1,2,2-Tetrachloroethane	83	9.413	9.413	0.000	73	211903	50.0	40.8	
111 1,3-Dichlorobenzene	146	10.319	10.319	0.000	97	464870	50.0	39.6	
113 1,4-Dichlorobenzene	146	10.405	10.404	0.001	95	467289	50.0	39.5	
116 1,2-Dichlorobenzene	146	10.751	10.751	0.000	97	431256	50.0	38.6	
117 1,2-Dibromo-3-Chloropropan	75	11.439	11.438	0.001	79	30561	50.0	30.8	
119 1,2,4-Trichlorobenzene	180	12.071	12.071	0.000	93	200586	50.0	26.2	
S 124 Xylenes, Total	1				0			81.9	

Reagents:

F 8260 SURR_00240	Amount Added:	1.00	Units: uL	Run Reagent
F 8260 IS_00557	Amount Added:	1.00	Units: uL	Run Reagent

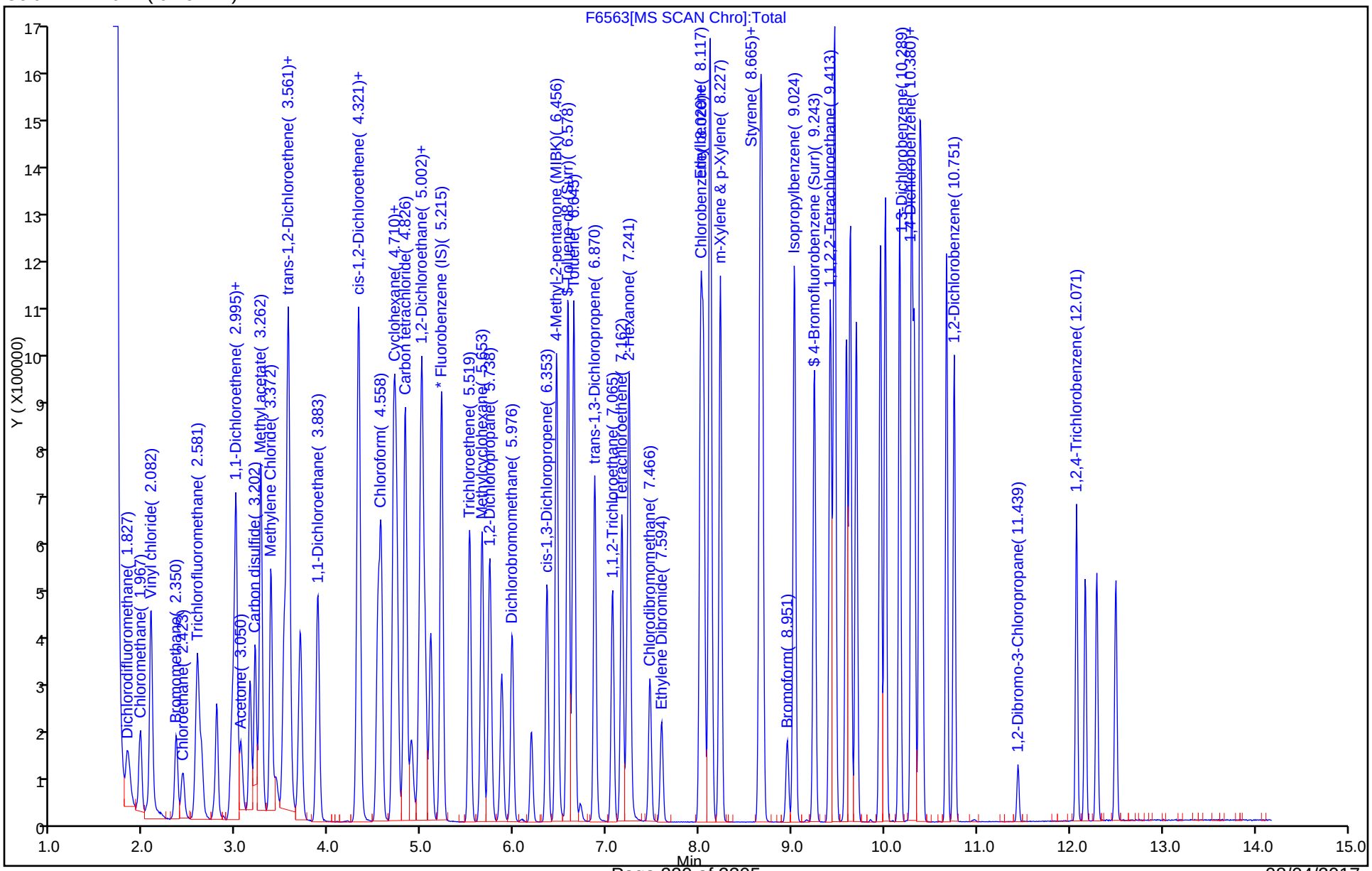
Report Date: 27-Jul-2017 19:21:28 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20170727-64372.b\F6563.D

Injection Date:	27-Jul-2017 18:47:30	Instrument ID:	HP5973F	Operator ID:	AM/CDC
Lims ID:	480-121501-D-3-E MSD			Worklist Smp#:	23
Client ID:	TP-11				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP5973F Start Date: 07/20/2017 10:51

Analysis Batch Number: 367895 End Date: 07/20/2017 19:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-367895/2		07/20/2017 10:51	1	F6324.D	ZB-624 (30) 0.25(mm)
IC 480-367895/4		07/20/2017 11:43	1	F6326.D	ZB-624 (30) 0.25(mm)
IC 480-367895/5		07/20/2017 12:09	1	F6327.D	ZB-624 (30) 0.25(mm)
IC 480-367895/6		07/20/2017 12:34	1	F6328.D	ZB-624 (30) 0.25(mm)
IC 480-367895/7		07/20/2017 13:00	1	F6329.D	ZB-624 (30) 0.25(mm)
ICIS 480-367895/8		07/20/2017 13:25	1	F6330.D	ZB-624 (30) 0.25(mm)
IC 480-367895/9		07/20/2017 13:50	1	F6331.D	ZB-624 (30) 0.25(mm)
IC 480-367895/10		07/20/2017 14:16	1	F6332.D	ZB-624 (30) 0.25(mm)
IC 480-367895/12		07/20/2017 15:08	1		ZB-624 (30) 0.25(mm)
IC 480-367895/13		07/20/2017 15:33	1		ZB-624 (30) 0.25(mm)
IC 480-367895/14		07/20/2017 15:58	1		ZB-624 (30) 0.25(mm)
IC 480-367895/15		07/20/2017 16:24	1		ZB-624 (30) 0.25(mm)
IC 480-367895/16		07/20/2017 16:50	1		ZB-624 (30) 0.25(mm)
IC 480-367895/17		07/20/2017 17:16	1		ZB-624 (30) 0.25(mm)
IC 480-367895/18		07/20/2017 17:41	1		ZB-624 (30) 0.25(mm)
MDLV 480-367895/20		07/20/2017 18:32	1		ZB-624 (30) 0.25(mm)
MDLV 480-367895/21		07/20/2017 18:58	1		ZB-624 (30) 0.25(mm)
ICV 480-367895/22		07/20/2017 19:23	1		ZB-624 (30) 0.25(mm)
ICV 480-367895/23		07/20/2017 19:48	1		ZB-624 (30) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP5973F Start Date: 07/26/2017 20:51

Analysis Batch Number: 368916 End Date: 07/27/2017 06:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-368916/2		07/26/2017 20:51	1	F6518.D	ZB-624 (30) 0.25(mm)
CCVIS 480-368916/3		07/26/2017 21:18	1	F6519.D	ZB-624 (30) 0.25(mm)
CCV 480-368916/4		07/26/2017 21:43	1		ZB-624 (30) 0.25(mm)
LCS 480-368925/1-A		07/26/2017 22:09	1	F6521.D	ZB-624 (30) 0.25(mm)
MB 480-368925/2-A		07/26/2017 23:00	1	F6523.D	ZB-624 (30) 0.25(mm)
ZZZZZ		07/26/2017 23:46	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 00:12	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 00:38	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 01:03	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 01:28	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 01:54	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 02:19	1		ZB-624 (30) 0.25(mm)
480-121501-1		07/27/2017 02:45	1	F6531.D	ZB-624 (30) 0.25(mm)
480-121501-2		07/27/2017 03:10	1	F6532.D	ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 03:36	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 04:02	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 04:28	1		ZB-624 (30) 0.25(mm)
480-121501-6		07/27/2017 04:53	1	F6536.D	ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 05:19	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 05:44	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 06:09	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 06:35	1		ZB-624 (30) 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP5973F Start Date: 07/27/2017 09:12

Analysis Batch Number: 368964 End Date: 07/27/2017 19:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-368964/2		07/27/2017 09:12	1	F6542.D	ZB-624 (30) 0.25(mm)
CCVIS 480-368964/3		07/27/2017 09:37	1	F6543.D	ZB-624 (30) 0.25(mm)
CCV 480-368964/4		07/27/2017 10:14	1		ZB-624 (30) 0.25(mm)
LCS 480-369004/1-A		07/27/2017 10:55	1	F6545.D	ZB-624 (30) 0.25(mm)
MB 480-369004/2-A		07/27/2017 11:47	1	F6547.D	ZB-624 (30) 0.25(mm)
480-121501-4		07/27/2017 12:26	1	F6548.D	ZB-624 (30) 0.25(mm)
480-121501-5		07/27/2017 12:51	1	F6549.D	ZB-624 (30) 0.25(mm)
480-121501-3		07/27/2017 13:17	1	F6550.D	ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 13:42	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 14:07	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 14:33	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 14:58	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 15:24	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 15:49	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 16:14	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 16:40	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 17:05	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 17:31	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 17:56	1		ZB-624 (30) 0.25(mm)
480-121501-3 MS		07/27/2017 18:21	1	F6562.D	ZB-624 (30) 0.25(mm)
480-121501-3 MSD		07/27/2017 18:47	1	F6563.D	ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 19:12	1		ZB-624 (30) 0.25(mm)
ZZZZZ		07/27/2017 19:38	1		ZB-624 (30) 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368925 Batch Start Date: 07/26/17 21:23 Batch Analyst: O'Brien, Shaun W

Batch Method: 5035A_L Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00103	GAS CORP mix 00231
LCS 480-368925/1		5035A_L, 8260C		25.31 g	30.31 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-368925/2		5035A_L, 8260C		25.40 g	30.40 g	5 g	5 mL		
480-121501-D-1	TP-13	5035A_L, 8260C	T	25.40 g	30.49 g	5.09 g	5 mL		
480-121501-D-2	TP-12	5035A_L, 8260C	T	25.44 g	30.58 g	5.14 g	5 mL		
480-121501-D-6	DUP	5035A_L, 8260C	T	24.96 g	29.98 g	5.02 g	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-368925/1		5035A_L, 8260C							
MB 480-368925/2		5035A_L, 8260C							
480-121501-D-1	TP-13	5035A_L, 8260C	T	bulk					
480-121501-D-2	TP-12	5035A_L, 8260C	T	bulk					
480-121501-D-6	DUP	5035A_L, 8260C	T	bulk					

Batch Notes	
Balance ID	B202613314
Blank Sand Lot #	16D195205

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 369004 Batch Start Date: 07/27/17 09:57 Batch Analyst: Moffat, Alyssa M

Batch Method: 5035A_L Batch End Date: 07/27/17 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00103	GAS CORP mix 00231
LCS 480-369004/1		5035A_L, 8260C		25.53 g	30.53 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-369004/2		5035A_L, 8260C		25.52 g	30.52 g	5 g	5 mL		
480-121501-D-4	TP-16	5035A_L, 8260C	T	25.17 g	30.25 g	5.08 g	5 mL		
480-121501-D-5	TP-17	5035A_L, 8260C	T	25.09 g	30.14 g	5.05 g	5 mL		
480-121501-D-3	TP-11	5035A_L, 8260C	T	25.29 g	30.29 g	5 g	5 mL		
480-121501-D-3 MS	TP-11	5035A_L, 8260C	T	25.30 g	30.32 g	5.02 g	5 mL	2.5 uL	2.5 uL
480-121501-D-3 MSD	TP-11	5035A_L, 8260C	T	25.05 g	30.07 g	5.02 g	5 mL	2.5 uL	2.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-369004/1		5035A_L, 8260C							
MB 480-369004/2		5035A_L, 8260C							
480-121501-D-4	TP-16	5035A_L, 8260C	T	bulk confirm IS out					
480-121501-D-5	TP-17	5035A_L, 8260C	T	bulk confirm IS out					
480-121501-D-3	TP-11	5035A_L, 8260C	T	bulk confirm IS out					
480-121501-D-3 MS	TP-11	5035A_L, 8260C	T	bulk client QC confirm IS out					
480-121501-D-3 MSD	TP-11	5035A_L, 8260C	T	bulk client QC confirm IS out					

Batch Notes	
Balance ID	B202613314
Batch Comment	sandlot 16d195205

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
TP-13	480-121501-1	86	87	92	89	96	100
TP-12	480-121501-2	69	74	72	84	69	95
TP-11	480-121501-3	72	71	73	87	70	105
TP-16	480-121501-4	87	89	90	91	95	98
TP-17	480-121501-5	80	82	84	89	95	97
DUP	480-121501-6	80	85	82	84	98	108
	MB 480-368504/1-A	82	85	87	88	86	97
	LCS 480-368504/2-A	85	87	92	92	101	94
TP-11 MS	480-121501-3 MS	59	69	71	84	65	93
TP-11 MSD	480-121501-3 MSD	79	84	78	88	87	100

	QC LIMITS
2FP = 2-Fluorophenol	52-120
PHL = Phenol-d5	54-120
NBZ = Nitrobenzene-d5	53-120
FBP = 2-Fluorobiphenyl	60-120
TBP = 2,4,6-Tribromophenol	54-120
TPHd14 = p-Terphenyl-d14	65-121

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304375.D

Lab ID: LCS 480-368504/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Biphenyl	1640	1500	92	59-120	
bis (2-chloroisopropyl) ether	1640	1380	84	44-120	
2,4,5-Trichlorophenol	1640	1630	100	59-126	
2,4,6-Trichlorophenol	1640	1530	94	59-123	
2,4-Dichlorophenol	1640	1460	89	61-120	
2,4-Dimethylphenol	1640	1500	92	59-120	
2,4-Dinitrophenol	3270	2970	91	41-146	
2,4-Dinitrotoluene	1640	1640	100	63-120	
2,6-Dinitrotoluene	1640	1650	101	66-120	
2-Chloronaphthalene	1640	1530	93	57-120	
2-Chlorophenol	1640	1330	82	53-120	
2-Methylnaphthalene	1640	1440	88	59-120	
2-Methylphenol	1640	1400	86	54-120	
2-Nitroaniline	1640	1710	105	61-120	
2-Nitrophenol	1640	1480	91	56-120	
3,3'-Dichlorobenzidine	3270	3060	94	54-120	
3-Nitroaniline	1640	1510	92	48-120	
4,6-Dinitro-2-methylphenol	3270	2830	87	49-122	
4-Bromophenyl phenyl ether	1640	1650	101	58-120	
4-Chloro-3-methylphenol	1640	1570	96	61-120	
4-Chloroaniline	1640	1270	78	38-120	
4-Chlorophenyl phenyl ether	1640	1560	95	63-124	
4-Methylphenol	1640	1420	87	55-120	
4-Nitroaniline	1640	1580	97	56-120	
4-Nitrophenol	3270	3150	96	43-147	
Acenaphthene	1640	1520	93	62-120	
Acenaphthylene	1640	1550	95	58-121	
Acetophenone	1640	1360	83	54-120	
Anthracene	1640	1590	97	62-120	
Atrazine	3270	3420	105	60-127	
Benzaldehyde	3270	1990	61	10-150	
Benzo(a)anthracene	1640	1610	98	65-120	
Benzo(a)pyrene	1640	1630	100	64-120	
Benzo(b)fluoranthene	1640	1720	105	64-120	
Benzo(g,h,i)perylene	1640	1770	108	45-145	
Benzo(k)fluoranthene	1640	1500	92	65-120	
Bis(2-chloroethoxy)methane	1640	1420	87	55-120	
Bis(2-chloroethyl)ether	1640	1330	82	45-120	
Bis(2-ethylhexyl) phthalate	1640	1640	100	61-133	
Butyl benzyl phthalate	1640	1620	99	61-129	
Caprolactam	3270	3170	97	47-120	
Carbazole	1640	1650	101	65-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304375.D

Lab ID: LCS 480-368504/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Chrysene	1640	1620	99	64-120	
Di-n-butyl phthalate	1640	1640	100	58-130	
Di-n-octyl phthalate	1640	1690	104	57-133	
Dibenz(a,h)anthracene	1640	1770	108	54-132	
Dibenzofuran	1640	1510	92	63-120	
Diethyl phthalate	1640	1560	95	66-120	
Dimethyl phthalate	1640	1580	97	65-124	
Fluoranthene	1640	1640	101	62-120	
Fluorene	1640	1560	95	63-120	
Hexachlorobenzene	1640	1630	100	60-120	
Hexachlorobutadiene	1640	1360	83	45-120	
Hexachlorocyclopentadiene	1640	1560	96	47-120	
Hexachloroethane	1640	1230	75	41-120	
Indeno(1,2,3-cd)pyrene	1640	1740	107	56-134	
Isophorone	1640	1430	88	56-120	
N-Nitrosodi-n-propylamine	1640	1390	85	52-120	
N-Nitrosodiphenylamine	1640	1600	98	51-128	
Naphthalene	1640	1390	85	55-120	
Nitrobenzene	1640	1430	87	54-120	
Pentachlorophenol	3270	3060	94	51-120	
Phenanthrene	1640	1620	99	60-120	
Phenol	1640	1380	84	53-120	
Pyrene	1640	1540	94	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304377.D

Lab ID: 480-121501-3 MS Client ID: TP-11 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Biphenyl	2040	ND	1790 J	88	58-120	
bis (2-chloroisopropyl) ether	2040	ND	1450 J	71	31-120	
2,4,5-Trichlorophenol	2040	ND	1620 J	79	46-120	
2,4,6-Trichlorophenol	2040	ND	1600 J	78	41-123	
2,4-Dichlorophenol	2040	ND	1470 J	72	45-120	
2,4-Dimethylphenol	2040	ND	1560 J	76	52-120	
2,4-Dinitrophenol	4080	ND	ND	NC	41-146	
2,4-Dinitrotoluene	2040	ND	1460 J	71	63-125	
2,6-Dinitrotoluene	2040	ND	1580 J	78	66-120	
2-Chloronaphthalene	2040	ND	1740 J	85	57-120	
2-Chlorophenol	2040	ND	1370 J	67	43-120	
2-Methylnaphthalene	2040	ND	1590 J	78	55-120	
2-Methylphenol	2040	ND	1450 J	71	48-120	
2-Nitroaniline	2040	ND	1580 J	77	61-120	
2-Nitrophenol	2040	ND	1360 J	66	37-120	
3,3'-Dichlorobenzidine	4080	ND	3490 J	85	37-126	
3-Nitroaniline	2040	ND	1320 J	65	48-120	
4,6-Dinitro-2-methylphenol	4080	ND	3510 J	86	23-149	
4-Bromophenyl phenyl ether	2040	ND	1870 J	92	58-120	
4-Chloro-3-methylphenol	2040	ND	1550 J	76	49-125	
4-Chloroaniline	2040	ND	1260 J	62	38-120	
4-Chlorophenyl phenyl ether	2040	ND	1770 J	86	63-124	
4-Methylphenol	2040	ND	1530 J	75	50-120	
4-Nitroaniline	2040	ND	1270 J	62	47-120	
4-Nitrophenol	4080	ND	3990 J	98	31-147	
Acenaphthene	2040	ND	1700 J	83	60-120	
Acenaphthylene	2040	ND	1700 J	83	58-121	
Acetophenone	2040	ND	1390 J	68	47-120	
Anthracene	2040	ND	1780 J	87	62-120	
Atrazine	4080	ND	3500	86	60-150	
Benzaldehyde	4080	ND	1820 J	45	10-150	
Benzo(a)anthracene	2040	ND	2010 J	98	65-120	
Benzo(a)pyrene	2040	ND	1960 J	96	64-120	
Benzo(b)fluoranthene	2040	ND	1990 J	98	64-120	
Benzo(g,h,i)perylene	2040	ND	2230	109	45-145	
Benzo(k)fluoranthene	2040	ND	1920 J	94	65-120	
Bis(2-chloroethoxy)methane	2040	ND	1480 J	73	52-120	
Bis(2-chloroethyl)ether	2040	ND	1310 J	64	45-120	
Bis(2-ethylhexyl) phthalate	2040	ND	1910 J	94	61-133	
Butyl benzyl phthalate	2040	ND	1810 J	89	61-120	
Caprolactam	4080	ND	3120	76	37-133	
Carbazole	2040	ND	1780 J	87	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304377.D

Lab ID: 480-121501-3 MS Client ID: TP-11 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Chrysene	2040	ND	2120	104	64-120	
Di-n-butyl phthalate	2040	ND	1770 J	87	58-130	
Di-n-octyl phthalate	2040	ND	1850 J	90	57-133	
Dibenz(a,h)anthracene	2040	ND	2050 J	100	54-132	
Dibenzofuran	2040	ND	1800 J	88	62-120	
Diethyl phthalate	2040	ND	1710 J	84	66-120	
Dimethyl phthalate	2040	ND	1720 J	84	65-124	
Fluoranthene	2040	270 J	2000 J	85	62-120	
Fluorene	2040	ND	1840 J	90	63-120	
Hexachlorobenzene	2040	ND	1750 J	85	60-120	
Hexachlorobutadiene	2040	ND	1430 J	70	45-120	
Hexachlorocyclopentadiene	2040	ND	1200 J	59	31-120	
Hexachloroethane	2040	ND	1090 J	54	21-120	
Indeno(1,2,3-cd)pyrene	2040	ND	2090 J	102	56-134	
Isophorone	2040	ND	1400 J	69	56-120	
N-Nitrosodi-n-propylamine	2040	ND	1300 J	64	46-120	
N-Nitrosodiphenylamine	2040	ND	1840 J	90	20-128	
Naphthalene	2040	ND	1490 J	73	46-120	
Nitrobenzene	2040	ND	1280 J	63	49-120	
Pentachlorophenol	4080	ND	3710 J	91	25-136	
Phenanthrene	2040	ND	2110	103	60-122	
Phenol	2040	ND	1420 J	70	50-120	
Pyrene	2040	ND	2060 J	101	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304378.D

Lab ID: 480-121501-3 MSD Client ID: TP-11 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Biphenyl	2000	1810 J	90	1	20	58-120	
bis (2-chloroisopropyl) ether	2000	1580 J	79	9	24	31-120	
2,4,5-Trichlorophenol	2000	1550 J	78	4	18	46-120	
2,4,6-Trichlorophenol	2000	1520 J	76	5	19	41-123	
2,4-Dichlorophenol	2000	1650 J	82	12	19	45-120	
2,4-Dimethylphenol	2000	1770 J	88	13	42	52-120	
2,4-Dinitrophenol	4010	ND	NC	NC	22	41-146	
2,4-Dinitrotoluene	2000	1470 J	73	1	20	63-125	
2,6-Dinitrotoluene	2000	1650 J	82	4	15	66-120	
2-Chloronaphthalene	2000	1760 J	88	1	21	57-120	
2-Chlorophenol	2000	1520 J	76	10	25	43-120	
2-Methylnaphthalene	2000	1800 J	90	12	21	55-120	
2-Methylphenol	2000	1560 J	78	7	27	48-120	
2-Nitroaniline	2000	1610 J	80	2	15	61-120	
2-Nitrophenol	2000	1610 J	80	17	18	37-120	
3,3'-Dichlorobenzidine	4010	3520 J	88	1	25	37-126	
3-Nitroaniline	2000	1390 J	70	5	19	48-120	
4,6-Dinitro-2-methylphenol	4010	3640 J	91	4	15	23-149	
4-Bromophenyl phenyl ether	2000	1820 J	91	3	15	58-120	
4-Chloro-3-methylphenol	2000	1710 J	85	10	27	49-125	
4-Chloroaniline	2000	1510 J	76	18	22	38-120	
4-Chlorophenyl phenyl ether	2000	1830 J	91	3	16	63-124	
4-Methylphenol	2000	1690 J	84	10	24	50-120	
4-Nitroaniline	2000	1510 J	75	17	24	47-120	
4-Nitrophenol	4010	4240	106	6	25	31-147	
Acenaphthene	2000	1810 J	90	7	35	60-120	
Acenaphthylene	2000	1820 J	91	7	18	58-121	
Acetophenone	2000	1550 J	78	11	20	47-120	
Anthracene	2000	1810 J	90	2	15	62-120	
Atrazine	4010	3880	97	10	20	60-150	
Benzaldehyde	4010	2260	56	22	20	10-150	F2
Benzo(a)anthracene	2000	1970 J	98	2	15	65-120	
Benzo(a)pyrene	2000	1860 J	93	6	15	64-120	
Benzo(b)fluoranthene	2000	1850 J	92	8	15	64-120	
Benzo(g,h,i)perylene	2000	1970 J	98	12	15	45-145	
Benzo(k)fluoranthene	2000	1980 J	99	3	22	65-120	
Bis(2-chloroethoxy)methane	2000	1690 J	84	13	17	52-120	
Bis(2-chloroethyl)ether	2000	1510 J	75	14	21	45-120	
Bis(2-ethylhexyl) phthalate	2000	2150	107	11	15	61-133	
Butyl benzyl phthalate	2000	1980 J	99	9	16	61-120	
Caprolactam	4010	3450	86	10	20	37-133	
Carbazole	2000	1880 J	94	5	20	59-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: V304378.D

Lab ID: 480-121501-3 MSD Client ID: TP-11 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chrysene	2000	1990 J	100	6	15	64-120	
Di-n-butyl phthalate	2000	1920 J	96	9	15	58-130	
Di-n-octyl phthalate	2000	1710 J	85	8	16	57-133	
Dibenz(a,h)anthracene	2000	1820 J	91	12	15	54-132	
Dibenzofuran	2000	1840 J	92	2	15	62-120	
Diethyl phthalate	2000	1850 J	92	8	15	66-120	
Dimethyl phthalate	2000	1920 J	96	11	15	65-124	
Fluoranthene	2000	1930 J	83	3	15	62-120	
Fluorene	2000	1870 J	93	1	15	63-120	
Hexachlorobenzene	2000	1880 J	94	8	15	60-120	
Hexachlorobutadiene	2000	1620 J	81	12	44	45-120	
Hexachlorocyclopentadiene	2000	1250 J	62	4	49	31-120	
Hexachloroethane	2000	1320 J	66	19	46	21-120	
Indeno(1,2,3-cd)pyrene	2000	1950 J	97	7	15	56-134	
Isophorone	2000	1630 J	81	15	17	56-120	
N-Nitrosodi-n-propylamine	2000	1640 J	82	23	31	46-120	
N-Nitrosodiphenylamine	2000	1780 J	89	4	15	20-128	
Naphthalene	2000	1690 J	84	13	29	46-120	
Nitrobenzene	2000	1500 J	75	15	24	49-120	
Pentachlorophenol	4010	3640 J	91	2	35	25-136	
Phenanthrene	2000	1960 J	98	8	15	60-122	
Phenol	2000	1500 J	75	6	35	50-120	
Pyrene	2000	2150	108	5	35	61-133	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab File ID: V304374.D Lab Sample ID: MB 480-368504/1-A

Matrix: Solid Date Extracted: 07/25/2017 07:50

Instrument ID: HP5973V Date Analyzed: 08/01/2017 19:43

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-368504/2-A	V304375.D	08/01/2017 20:09
TP-11 MS	480-121501-3 MS	V304377.D	08/01/2017 21:01
TP-11 MSD	480-121501-3 MSD	V304378.D	08/01/2017 21:27
TP-13	480-121501-1	V304381.D	08/01/2017 22:47
TP-12	480-121501-2	V304382.D	08/01/2017 23:13
TP-11	480-121501-3	V304383.D	08/01/2017 23:40
TP-16	480-121501-4	V304384.D	08/02/2017 00:06
TP-17	480-121501-5	V304385.D	08/02/2017 00:32
DUP	480-121501-6	V304386.D	08/02/2017 00:58

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab File ID: V304362.D DFTPP Injection Date: 08/01/2017

Instrument ID: HP5973V DFTPP Injection Time: 14:28

Analysis Batch No.: 369864

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	44.1	
68	Less than 2% of mass 69	0.3	(0.8) 1
69	Mass 69 Relative abundance	38.6	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	46.4	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.0	
275	10-60% of Base Peak	27.2	
365	Greater than 1% of mass 198	3.9	
441	present but less than 24% of mass 442	15.0	(14.9) 2
442	Greater than 50% of mass 198	101.0	
443	15-24% of mass 442	18.2	(18.0) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-369864/4	V304363.D	08/01/2017	14:54
	IC 480-369864/5	V304364.D	08/01/2017	15:20
	ICIS 480-369864/6	V304365.D	08/01/2017	15:46
	IC 480-369864/7	V304366.D	08/01/2017	16:12
	IC 480-369864/8	V304367.D	08/01/2017	16:38
	IC 480-369864/9	V304368.D	08/01/2017	17:04

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab File ID: V304371.D DFTPP Injection Date: 08/01/2017

Instrument ID: HP5973V DFTPP Injection Time: 18:24

Analysis Batch No.: 369868

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	42.4	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	39.0	
70	Less than 2% of mass 69	0.0	(0.0) 1
127	10-80% of Base Peak	46.2	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.6	
275	10-60% of Base Peak	26.7	
365	Greater than 1% of mass 198	4.8	
441	present but less than 24% of mass 442	14.2	(14.0) 2
442	Greater than 50% of mass 198	101.0	
443	15-24% of mass 442	18.0	(17.8) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-369868/3	V304372.D	08/01/2017	18:51
	MB 480-368504/1-A	V304374.D	08/01/2017	19:43
	LCS 480-368504/2-A	V304375.D	08/01/2017	20:09
TP-11 MS	480-121501-3 MS	V304377.D	08/01/2017	21:01
TP-11 MSD	480-121501-3 MSD	V304378.D	08/01/2017	21:27
TP-13	480-121501-1	V304381.D	08/01/2017	22:47
TP-12	480-121501-2	V304382.D	08/01/2017	23:13
TP-11	480-121501-3	V304383.D	08/01/2017	23:40
TP-16	480-121501-4	V304384.D	08/02/2017	00:06
TP-17	480-121501-5	V304385.D	08/02/2017	00:32
DUP	480-121501-6	V304386.D	08/02/2017	00:58

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: ICIS 480-369864/6 Date Analyzed: 08/01/2017 15:46

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V304365.D Heated Purge: (Y/N) N

Calibration ID: 31044

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		106896	5.53	360271	7.09	183618	9.15
UPPER LIMIT		213792	6.03	720542	7.59	367236	9.65
LOWER LIMIT		53448	5.03	180136	6.59	91809	8.65
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-369868/3		102679	5.52	352431	7.08	176637	9.15

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: ICIS 480-369864/6 Date Analyzed: 08/01/2017 15:46

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V304365.D Heated Purge: (Y/N) N

Calibration ID: 31044

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		339618	10.78	409560	13.18	411460	14.32
UPPER LIMIT		679236	11.28	819120	13.68	822920	14.82
LOWER LIMIT		169809	10.28	204780	12.68	205730	13.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-369868/3		350829	10.78	431755	13.18	422667	14.32

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: CCVIS 480-369868/3 Date Analyzed: 08/01/2017 18:51

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V304372.D Heated Purge: (Y/N) N

Calibration ID: 31044

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		102679	5.52	352431	7.08	176637	9.15
UPPER LIMIT		205358	6.02	704862	7.58	353274	9.65
LOWER LIMIT		51340	5.02	176216	6.58	88319	8.65
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-368504/1-A		97668	5.53	338552	7.08	159631	9.15
LCS 480-368504/2-A		91400	5.53	308951	7.08	152360	9.15
480-121501-3 MS	TP-11 MS	97768	5.53	339216	7.08	163407	9.15
480-121501-3 MSD	TP-11 MSD	101724	5.52	362650	7.08	184643	9.15
480-121501-1	TP-13	101395	5.52	354837	7.08	176126	9.15
480-121501-2	TP-12	103578	5.52	357449	7.08	176533	9.15
480-121501-3	TP-11	101822	5.53	364478	7.08	184246	9.15
480-121501-4	TP-16	106642	5.52	368598	7.08	175890	9.15
480-121501-5	TP-17	87770	5.52	305736	7.08	149362	9.15
480-121501-6	DUP	135719	5.52	473024	7.08	236292	9.15

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: CCVIS 480-369868/3 Date Analyzed: 08/01/2017 18:51

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): V304372.D Heated Purge: (Y/N) N

Calibration ID: 31044

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		350829	10.78	431755	13.18	422667	14.32
UPPER LIMIT		701658	11.28	863510	13.68	845334	14.82
LOWER LIMIT		175415	10.28	215878	12.68	211334	13.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-368504/1-A		273030	10.78	288264	13.16	294074	14.31
LCS 480-368504/2-A		277394	10.78	327004	13.17	345573	14.32
480-121501-3 MS	TP-11 MS	293032	10.78	309656	13.17	327617	14.32
480-121501-3 MSD	TP-11 MSD	349087	10.78	353720	13.17	306076	14.32
480-121501-1	TP-13	324746	10.78	352126	13.17	322757	14.32
480-121501-2	TP-12	334026	10.78	345881	13.17	323164	14.32
480-121501-3	TP-11	345122	10.78	334707	13.17	320425	14.32
480-121501-4	TP-16	309233	10.78	329197	13.17	303452	14.31
480-121501-5	TP-17	280668	10.78	320902	13.17	320529	14.31
480-121501-6	DUP	416733	10.78	419344	13.17	335927	14.31

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-13 | Lab Sample ID: 480-121501-1

Matrix: Solid | Lab File ID: V304381.D

Analysis Method: 8270D | Date Collected: 07/21/2017 09:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.65(g) | Date Analyzed: 08/01/2017 22:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		200	30
108-60-1	bis (2-chloroisopropyl) ether	ND		200	40
95-95-4	2,4,5-Trichlorophenol	ND		200	54
88-06-2	2,4,6-Trichlorophenol	ND		200	40
120-83-2	2,4-Dichlorophenol	ND		200	21
105-67-9	2,4-Dimethylphenol	ND		200	48
51-28-5	2,4-Dinitrophenol	ND		2000	930
121-14-2	2,4-Dinitrotoluene	ND		200	41
606-20-2	2,6-Dinitrotoluene	ND		200	24
91-58-7	2-Chloronaphthalene	ND		200	33
95-57-8	2-Chlorophenol	ND		200	37
91-57-6	2-Methylnaphthalene	ND		200	40
95-48-7	2-Methylphenol	ND		200	24
88-74-4	2-Nitroaniline	ND		390	30
88-75-5	2-Nitrophenol	ND		200	57
91-94-1	3,3'-Dichlorobenzidine	ND		390	240
99-09-2	3-Nitroaniline	ND		390	56
534-52-1	4,6-Dinitro-2-methylphenol	ND		390	200
101-55-3	4-Bromophenyl phenyl ether	ND		200	28
59-50-7	4-Chloro-3-methylphenol	ND		200	50
106-47-8	4-Chloroaniline	ND		200	50
7005-72-3	4-Chlorophenyl phenyl ether	ND		200	25
106-44-5	4-Methylphenol	ND		390	24
100-01-6	4-Nitroaniline	ND		390	110
100-02-7	4-Nitrophenol	ND		390	140
83-32-9	Acenaphthene	ND		200	30
208-96-8	Acenaphthylene	ND		200	26
98-86-2	Acetophenone	ND		200	27
120-12-7	Anthracene	ND		200	50
1912-24-9	Atrazine	ND		200	70
100-52-7	Benzaldehyde	ND		200	160
56-55-3	Benzo(a)anthracene	ND		200	20
50-32-8	Benzo(a)pyrene	ND		200	30
205-99-2	Benzo(b)fluoranthene	ND		200	32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-13 | Lab Sample ID: 480-121501-1

Matrix: Solid | Lab File ID: V304381.D

Analysis Method: 8270D | Date Collected: 07/21/2017 09:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.65(g) | Date Analyzed: 08/01/2017 22:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		200	21
207-08-9	Benzo(k)fluoranthene	ND		200	26
111-91-1	Bis(2-chloroethoxy)methane	ND		200	43
111-44-4	Bis(2-chloroethyl)ether	ND		200	26
117-81-7	Bis(2-ethylhexyl) phthalate	ND		200	69
85-68-7	Butyl benzyl phthalate	ND		200	33
105-60-2	Caprolactam	ND		200	60
86-74-8	Carbazole	ND		200	24
218-01-9	Chrysene	ND		200	45
84-74-2	Di-n-butyl phthalate	ND		200	34
117-84-0	Di-n-octyl phthalate	ND		200	24
53-70-3	Dibenz(a,h)anthracene	ND		200	35
132-64-9	Dibenzofuran	ND		200	24
84-66-2	Diethyl phthalate	ND		200	26
131-11-3	Dimethyl phthalate	ND		200	24
206-44-0	Fluoranthene	ND		200	21
86-73-7	Fluorene	ND		200	24
118-74-1	Hexachlorobenzene	ND		200	27
87-68-3	Hexachlorobutadiene	ND		200	30
77-47-4	Hexachlorocyclopentadiene	ND		200	27
67-72-1	Hexachloroethane	ND		200	26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		200	25
78-59-1	Isophorone	ND		200	43
621-64-7	N-Nitrosodi-n-propylamine	ND		200	34
86-30-6	N-Nitrosodiphenylamine	ND		200	160
91-20-3	Naphthalene	ND		200	26
98-95-3	Nitrobenzene	ND		200	22
87-86-5	Pentachlorophenol	ND		390	200
85-01-8	Phenanthrene	ND		200	30
108-95-2	Phenol	ND		200	31
129-00-0	Pyrene	ND		200	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-13 | Lab Sample ID: 480-121501-1

Matrix: Solid | Lab File ID: V304381.D

Analysis Method: 8270D | Date Collected: 07/21/2017 09:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.65(g) | Date Analyzed: 08/01/2017 22:47

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	96		54-120
321-60-8	2-Fluorobiphenyl	89		60-120
367-12-4	2-Fluorophenol	86		52-120
4165-60-0	Nitrobenzene-d5	92		53-120
1718-51-0	p-Terphenyl-d14	100		65-121
4165-62-2	Phenol-d5	87		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304381.D
Lims ID: 480-121501-A-1-B
Client ID: TP-13
Sample Type: Client
Inject. Date: 01-Aug-2017 22:47:30 ALS Bottle#: 22 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064505-012
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:19:34

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.524	5.524	0.000	97	101395	40.0	
*	2 Naphthalene-d8	136	7.084	7.084	0.000	99	354837	40.0	
*	3 Acenaphthene-d10	164	9.146	9.152	-0.006	97	176126	40.0	
*	4 Phenanthrene-d10	188	10.781	10.781	0.000	97	324746	40.0	
*	5 Chrysene-d12	240	13.169	13.175	-0.006	97	352126	40.0	
*	6 Perylene-d12	264	14.318	14.318	0.000	99	322757	40.0	
$	7 2-Fluorophenol	112	3.761	3.751	0.010	95	109927	34.5	
$	8 Phenol-d5	99	5.097	5.102	-0.005	96	132574	34.8	
$	9 Nitrobenzene-d5	82	6.224	6.224	0.000	95	119204	36.6	
$	10 2-Fluorobiphenyl	172	8.383	8.383	-0.001	100	233221	35.8	
$	11 2,4,6-Tribromophenol	330	10.055	10.060	-0.005	94	36645	38.4	
$	12 p-Terphenyl-d14	244	12.282	12.282	0.000	99	287952	40.2	
	80 Benzaldehyde	77		4.953				ND	
	81 Phenol	94		5.118				ND	
	83 Bis(2-chloroethyl)ether	93		5.209				ND	
	84 2-Chlorophenol	128		5.257				ND	
	92 2-Methylphenol	108		5.888				ND	
	93 2,2'-oxybis[1-chloropropan	45		5.909				ND	
	94 Acetophenone	105		6.043				ND	
	95 N-Nitrosodi-n-propylamine	70		6.064				ND	
	96 4-Methylphenol	108		6.091				ND	
	99 Hexachloroethane	117		6.155				ND	
	102 Nitrobenzene	77		6.246				ND	
	106 Isophorone	82		6.545				ND	
	107 2-Nitrophenol	139		6.641				ND	
	108 2,4-Dimethylphenol	107		6.726				ND	
	111 Bis(2-chloroethoxy)methane	93		6.833				ND	
	114 2,4-Dichlorophenol	162		6.935				ND	
	118 Naphthalene	128		7.111				ND	
	119 4-Chloroaniline	127		7.197				ND	
	121 Hexachlorobutadiene	225		7.287				ND	
	124 Caprolactam	113		7.624				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107		7.806				ND	
131 2-Methylnaphthalene	142		7.939				ND	
134 Hexachlorocyclopentadiene	237		8.137				ND	
137 2,4,6-Trichlorophenol	196		8.286				ND	
138 2,4,5-Trichlorophenol	196		8.329				ND	
140 1,1'-Biphenyl	154		8.495				ND	
141 2-Chloronaphthalene	162		8.505				ND	
143 2-Nitroaniline	65		8.639				ND	
146 Dimethyl phthalate	163		8.874				ND	
149 2,6-Dinitrotoluene	165		8.933				ND	
150 Acenaphthylene	152		8.981				ND	
151 3-Nitroaniline	138		9.120				ND	
152 Acenaphthene	153		9.189				ND	
153 2,4-Dinitrophenol	184		9.248				ND	
154 4-Nitrophenol	109		9.355				ND	
155 Dibenzofuran	168		9.392				ND	
156 2,4-Dinitrotoluene	165		9.398				ND	
161 Diethyl phthalate	149		9.702				ND	
162 Fluorene	166		9.788				ND	
163 4-Chlorophenyl phenyl ethe	204		9.804				ND	
164 4-Nitroaniline	138		9.830				ND	
165 4,6-Dinitro-2-methylphenol	198		9.873				ND	
168 N-Nitrosodiphenylamine	169		9.942				ND	
175 4-Bromophenyl phenyl ether	248		10.338				ND	
179 Hexachlorobenzene	284		10.397				ND	
180 Atrazine	200		10.535				ND	
183 Pentachlorophenol	266		10.610				ND	
188 Phenanthrene	178		10.808				ND	
189 Anthracene	178		10.856				ND	
192 Carbazole	167		11.027				ND	
195 Di-n-butyl phthalate	149		11.390				ND	
201 Fluoranthene	202		11.935				ND	
204 Pyrene	202		12.133				ND	
210 Butyl benzyl phthalate	149		12.710				ND	
215 3,3'-Dichlorobenzidine	252		13.148				ND	
217 Benzo[a]anthracene	228		13.164				ND	
216 Bis(2-ethylhexyl) phthalat	149		13.191				ND	
218 Chrysene	228		13.196				ND	
220 Di-n-octyl phthalate	149		13.714				ND	
221 Benzo[b]fluoranthene	252		14.029				ND	
222 Benzo[k]fluoranthene	252		14.051				ND	
225 Benzo[a]pyrene	252		14.275				ND	
227 Indeno[1,2,3-cd]pyrene	276		15.189				ND	
228 Dibenz(a,h)anthracene	278		15.194				ND	
229 Benzo[g,h,i]perylene	276		15.434				ND	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

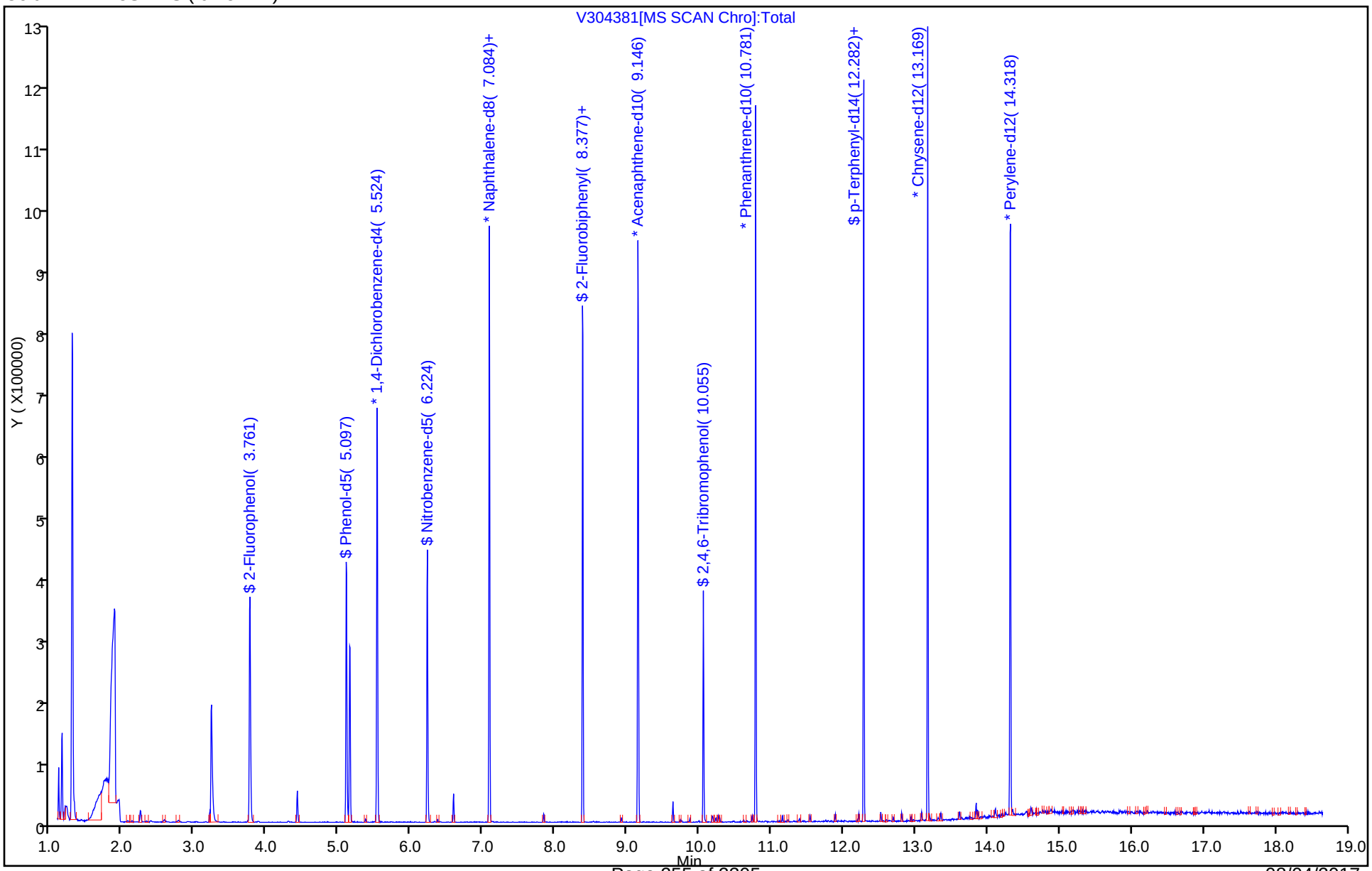
Report Date: 02-Aug-2017 15:46:26 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304381.D

Injection Date:	01-Aug-2017 22:47:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121501-A-1-B	Lab Sample ID:	480-121501-1	Worklist Smp#:	12
Client ID:	TP-13				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 | Lab Sample ID: 480-121501-2

Matrix: Solid | Lab File ID: V304382.D

Analysis Method: 8270D | Date Collected: 07/21/2017 10:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.36(g) | Date Analyzed: 08/01/2017 23:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		1100	160
108-60-1	bis (2-chloroisopropyl) ether	ND		1100	220
95-95-4	2,4,5-Trichlorophenol	ND		1100	300
88-06-2	2,4,6-Trichlorophenol	ND		1100	220
120-83-2	2,4-Dichlorophenol	ND		1100	120
105-67-9	2,4-Dimethylphenol	ND		1100	270
51-28-5	2,4-Dinitrophenol	ND		11000	5100
121-14-2	2,4-Dinitrotoluene	ND		1100	230
606-20-2	2,6-Dinitrotoluene	ND		1100	130
91-58-7	2-Chloronaphthalene	ND		1100	180
95-57-8	2-Chlorophenol	ND		1100	200
91-57-6	2-Methylnaphthalene	ND		1100	220
95-48-7	2-Methylphenol	ND		1100	130
88-74-4	2-Nitroaniline	ND		2100	160
88-75-5	2-Nitrophenol	ND		1100	310
91-94-1	3,3'-Dichlorobenzidine	ND		2100	1300
99-09-2	3-Nitroaniline	ND		2100	310
534-52-1	4,6-Dinitro-2-methylphenol	ND		2100	1100
101-55-3	4-Bromophenyl phenyl ether	ND		1100	160
59-50-7	4-Chloro-3-methylphenol	ND		1100	270
106-47-8	4-Chloroaniline	ND		1100	270
7005-72-3	4-Chlorophenyl phenyl ether	ND		1100	140
106-44-5	4-Methylphenol	ND		2100	130
100-01-6	4-Nitroaniline	ND		2100	580
100-02-7	4-Nitrophenol	ND		2100	770
83-32-9	Acenaphthene	ND		1100	160
208-96-8	Acenaphthylene	ND		1100	140
98-86-2	Acetophenone	ND		1100	150
120-12-7	Anthracene	470	J	1100	270
1912-24-9	Atrazine	ND		1100	380
100-52-7	Benzaldehyde	ND		1100	880
56-55-3	Benzo(a)anthracene	1600		1100	110
50-32-8	Benzo(a)pyrene	1400		1100	160
205-99-2	Benzo(b)fluoranthene	1700		1100	180

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 | Lab Sample ID: 480-121501-2

Matrix: Solid | Lab File ID: V304382.D

Analysis Method: 8270D | Date Collected: 07/21/2017 10:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.36(g) | Date Analyzed: 08/01/2017 23:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1000	J	1100	120
207-08-9	Benzo(k)fluoranthene	700	J	1100	140
111-91-1	Bis(2-chloroethoxy)methane	ND		1100	230
111-44-4	Bis(2-chloroethyl)ether	ND		1100	140
117-81-7	Bis(2-ethylhexyl) phthalate	ND		1100	380
85-68-7	Butyl benzyl phthalate	ND		1100	180
105-60-2	Caprolactam	ND		1100	330
86-74-8	Carbazole	150	J	1100	130
218-01-9	Chrysene	1700		1100	250
84-74-2	Di-n-butyl phthalate	ND		1100	190
117-84-0	Di-n-octyl phthalate	ND		1100	130
53-70-3	Dibenz(a,h)anthracene	310	J	1100	190
132-64-9	Dibenzofuran	ND		1100	130
84-66-2	Diethyl phthalate	ND		1100	140
131-11-3	Dimethyl phthalate	ND		1100	130
206-44-0	Fluoranthene	2800		1100	120
86-73-7	Fluorene	ND		1100	130
118-74-1	Hexachlorobenzene	ND		1100	150
87-68-3	Hexachlorobutadiene	ND		1100	160
77-47-4	Hexachlorocyclopentadiene	ND		1100	150
67-72-1	Hexachloroethane	ND		1100	140
193-39-5	Indeno(1,2,3-cd)pyrene	860	J	1100	140
78-59-1	Isophorone	ND		1100	230
621-64-7	N-Nitrosodi-n-propylamine	ND		1100	190
86-30-6	N-Nitrosodiphenylamine	ND		1100	900
91-20-3	Naphthalene	ND		1100	140
98-95-3	Nitrobenzene	ND		1100	120
87-86-5	Pentachlorophenol	ND		2100	1100
85-01-8	Phenanthrene	2100		1100	160
108-95-2	Phenol	ND		1100	170
129-00-0	Pyrene	3000		1100	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 | Lab Sample ID: 480-121501-2

Matrix: Solid | Lab File ID: V304382.D

Analysis Method: 8270D | Date Collected: 07/21/2017 10:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.36(g) | Date Analyzed: 08/01/2017 23:13

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	69		54-120
321-60-8	2-Fluorobiphenyl	84		60-120
367-12-4	2-Fluorophenol	69		52-120
4165-60-0	Nitrobenzene-d5	72		53-120
1718-51-0	p-Terphenyl-d14	95		65-121
4165-62-2	Phenol-d5	74		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D
Lims ID: 480-121501-A-2-B
Client ID: TP-12
Sample Type: Client
Inject. Date: 01-Aug-2017 23:13:30 ALS Bottle#: 23 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 480-0064505-013
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:20:59

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.524	5.524	0.000	97	103578	40.0	
*	2 Naphthalene-d8	136	7.084	7.084	0.000	100	357449	40.0	
*	3 Acenaphthene-d10	164	9.146	9.152	-0.006	98	176533	40.0	
*	4 Phenanthrene-d10	188	10.781	10.781	0.000	97	334026	40.0	
*	5 Chrysene-d12	240	13.169	13.175	-0.006	97	345881	40.0	
*	6 Perylene-d12	264	14.318	14.318	0.000	99	323164	40.0	
$	7 2-Fluorophenol	112	3.761	3.751	0.010	94	18000	5.53	
$	8 Phenol-d5	99	5.102	5.102	0.000	97	22895	5.89	
$	9 Nitrobenzene-d5	82	6.224	6.224	0.000	95	18802	5.74	
$	10 2-Fluorobiphenyl	172	8.377	8.383	-0.006	99	43671	6.68	
$	11 2,4,6-Tribromophenol	330	10.055	10.060	-0.005	92	5383	5.49	
$	12 p-Terphenyl-d14	244	12.277	12.282	-0.005	99	53608	7.62	
	80 Benzaldehyde	77		4.953				ND	
	81 Phenol	94		5.118				ND	
	83 Bis(2-chloroethyl)ether	93		5.209				ND	
	84 2-Chlorophenol	128		5.257				ND	
	92 2-Methylphenol	108		5.888				ND	
	93 2,2'-oxybis[1-chloropropan	45		5.909				ND	
	94 Acetophenone	105		6.043				ND	
	95 N-Nitrosodi-n-propylamine	70		6.064				ND	
	96 4-Methylphenol	108		6.091				ND	
	99 Hexachloroethane	117		6.155				ND	
	102 Nitrobenzene	77		6.246				ND	
	106 Isophorone	82		6.545				ND	
	107 2-Nitrophenol	139		6.641				ND	
	108 2,4-Dimethylphenol	107		6.726				ND	
	111 Bis(2-chloroethoxy)methane	93		6.833				ND	
	114 2,4-Dichlorophenol	162		6.935				ND	
	118 Naphthalene	128		7.111				ND	
	119 4-Chloroaniline	127		7.197				ND	
	121 Hexachlorobutadiene	225		7.287				ND	
	124 Caprolactam	113		7.624				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107		7.806				ND	
131 2-Methylnaphthalene	142		7.939				ND	
134 Hexachlorocyclopentadiene	237		8.137				ND	
137 2,4,6-Trichlorophenol	196		8.286				ND	
138 2,4,5-Trichlorophenol	196		8.329				ND	
140 1,1'-Biphenyl	154		8.495				ND	
141 2-Chloronaphthalene	162		8.505				ND	
143 2-Nitroaniline	65		8.639				ND	
146 Dimethyl phthalate	163		8.874				ND	
149 2,6-Dinitrotoluene	165		8.933				ND	
150 Acenaphthylene	152		8.981				ND	
151 3-Nitroaniline	138		9.120				ND	
152 Acenaphthene	153	9.184	9.189	-0.005	90	2715	0.4997	
153 2,4-Dinitrophenol	184		9.248				ND	
154 4-Nitrophenol	109		9.355				ND	
155 Dibenzofuran	168		9.392				ND	
156 2,4-Dinitrotoluene	165		9.398				ND	
161 Diethyl phthalate	149		9.702				ND	
162 Fluorene	166		9.788				ND	
163 4-Chlorophenyl phenyl ethe	204		9.804				ND	
164 4-Nitroaniline	138		9.830				ND	
165 4,6-Dinitro-2-methylphenol	198		9.873				ND	
168 N-Nitrosodiphenylamine	169		9.942				ND	
175 4-Bromophenyl phenyl ether	248		10.338				ND	
179 Hexachlorobenzene	284		10.397				ND	
180 Atrazine	200		10.535				ND	
183 Pentachlorophenol	266		10.610				ND	
188 Phenanthrene	178	10.803	10.808	-0.005	97	92395	9.82	
189 Anthracene	178	10.856	10.856	0.000	96	21198	2.15	
192 Carbazole	167	11.027	11.027	0.000	95	6002	0.7078	
195 Di-n-butyl phthalate	149		11.390				ND	
201 Fluoranthene	202	11.930	11.935	-0.005	97	134295	13.0	
204 Pyrene	202	12.127	12.133	-0.006	97	136414	13.9	
210 Butyl benzyl phthalate	149		12.710				ND	
215 3,3'-Dichlorobenzidine	252		13.148				ND	
217 Benzo[a]anthracene	228	13.164	13.164	0.000	97	72134	7.30	
216 Bis(2-ethylhexyl) phthalat	149		13.191				ND	
218 Chrysene	228	13.191	13.196	-0.006	95	73360	8.01	
220 Di-n-octyl phthalate	149		13.714				ND	
221 Benzo[b]fluoranthene	252	14.029	14.029	0.000	95	71435	7.75	M
222 Benzo[k]fluoranthene	252	14.045	14.051	-0.006	95	30961	3.24	M
225 Benzo[a]pyrene	252	14.270	14.275	-0.005	75	55587	6.47	
227 Indeno[1,2,3-cd]pyrene	276	15.183	15.189	-0.006	98	38796	4.00	
228 Dibenz(a,h)anthracene	278	15.189	15.194	-0.006	77	11863	1.45	
229 Benzo[g,h,i]perylene	276	15.429	15.434	-0.005	97	39498	4.82	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

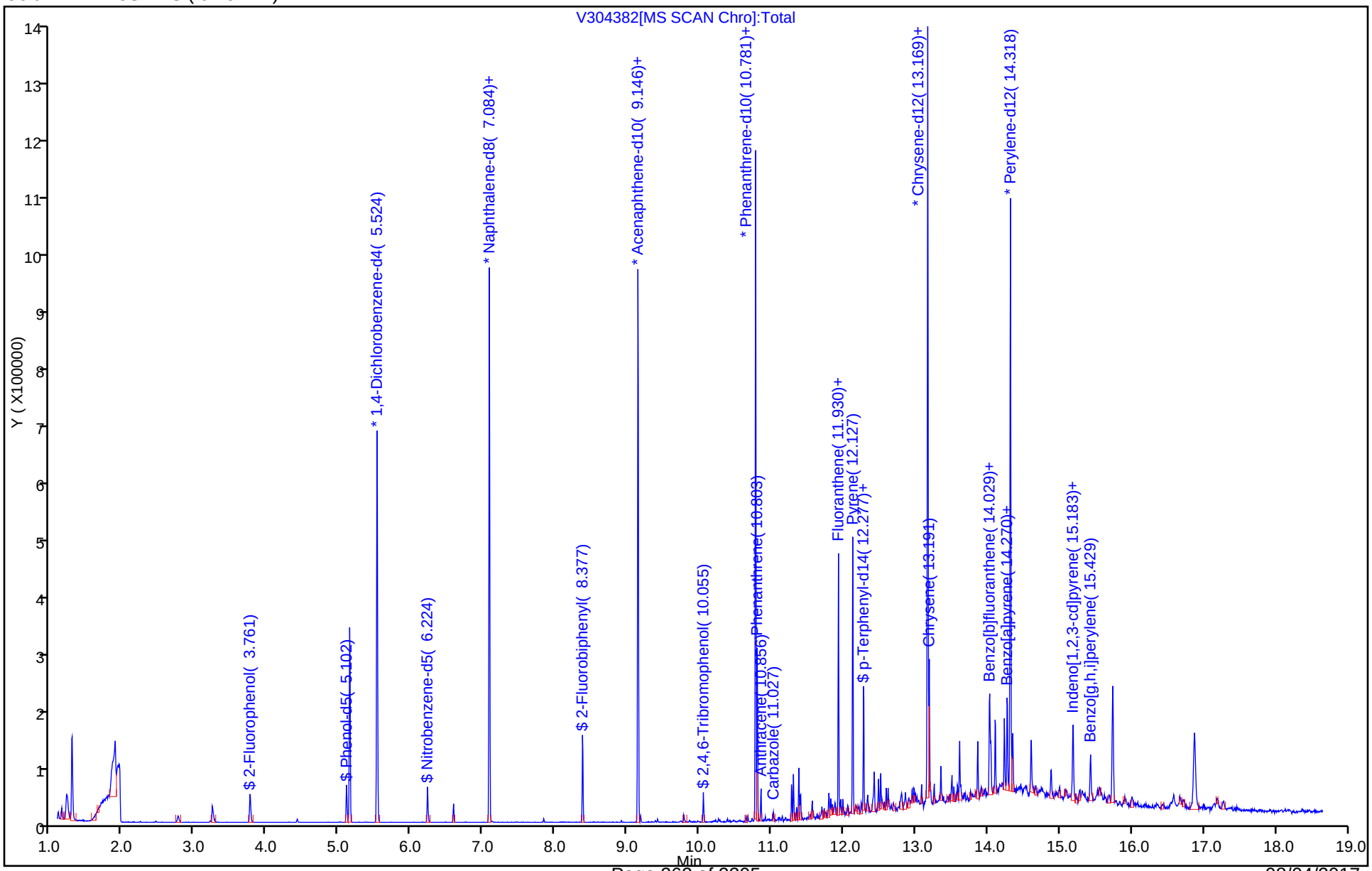
Report Date: 02-Aug-2017 15:46:29 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D

Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2	Worklist Smp#:	13
Client ID:	TP-12				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	23
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)

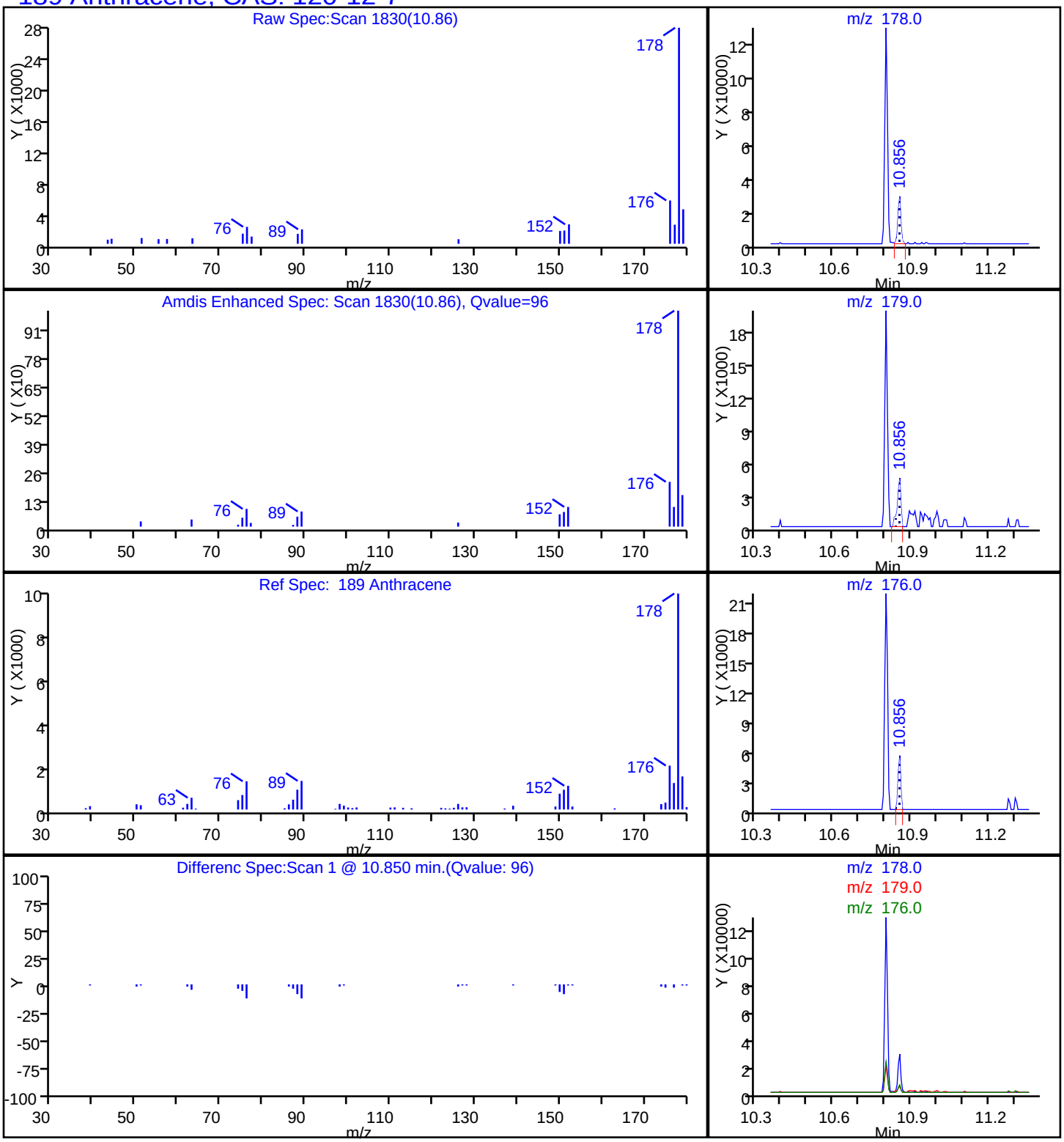


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D

Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

189 Anthracene, CAS: 120-12-7



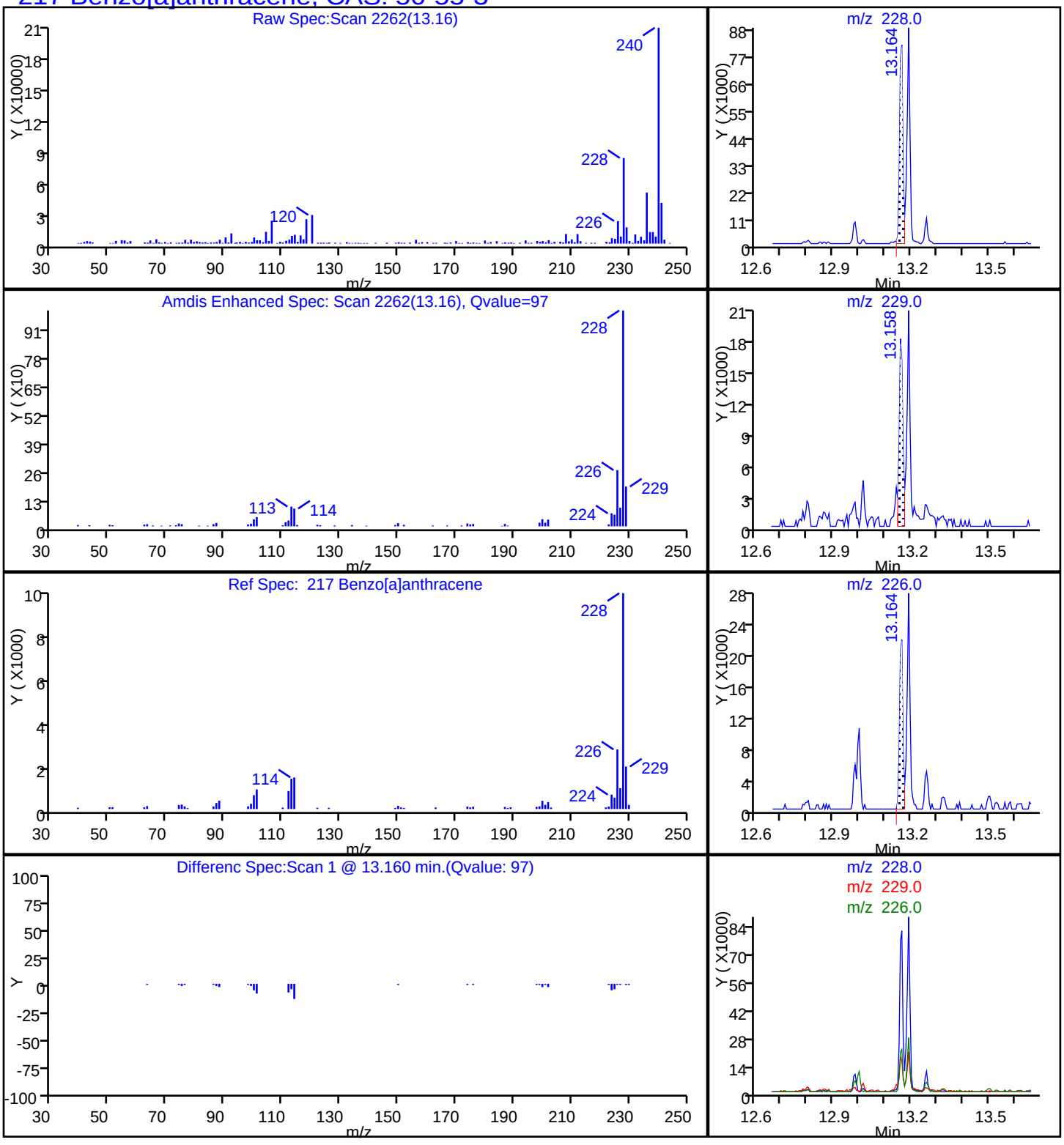
Report Date: 02-Aug-2017 15:46:30 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D

Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

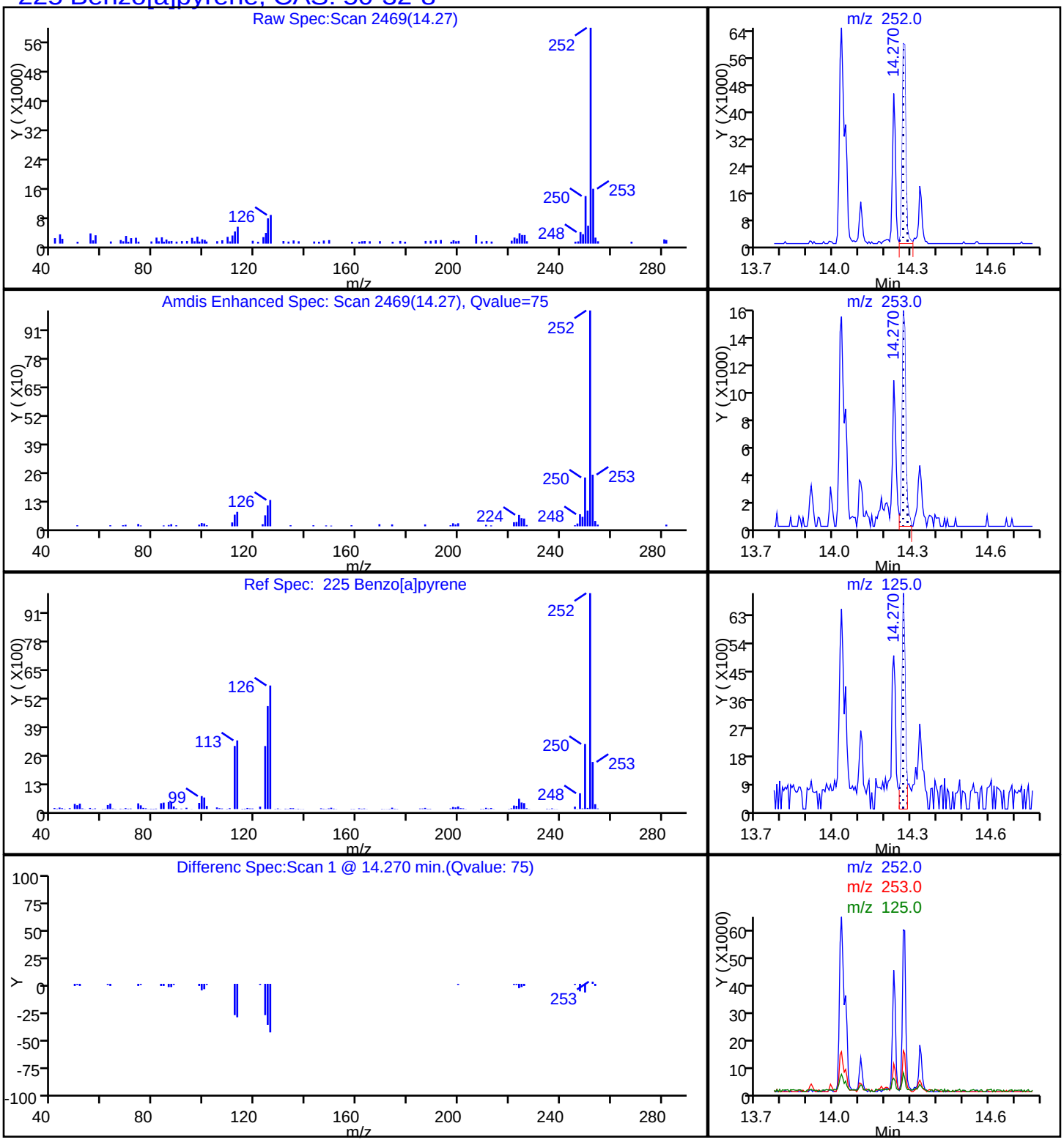
217 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D				
Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

225 Benzo[a]pyrene, CAS: 50-32-8



TestAmerica Buffalo

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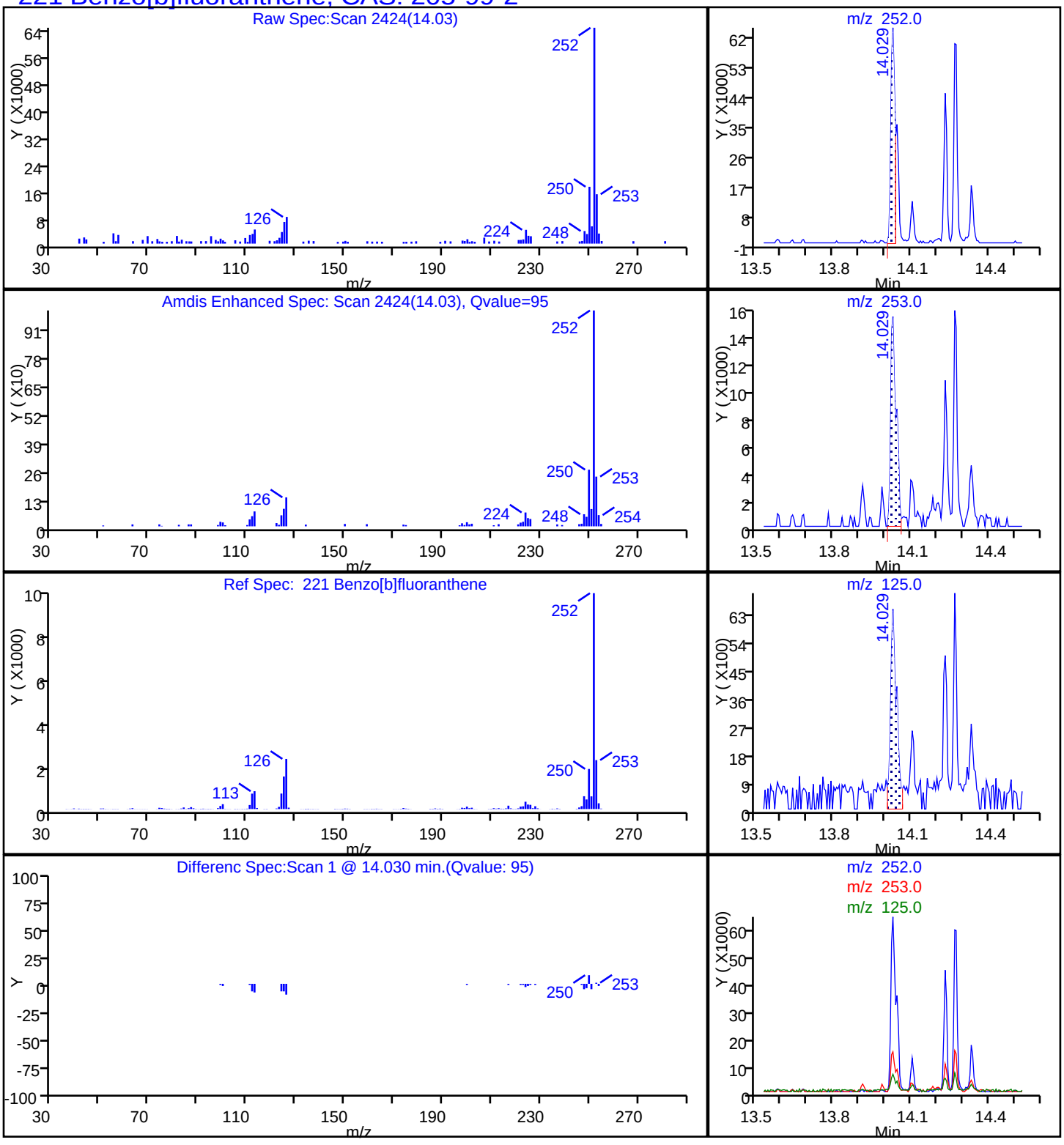
Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

221 Benzo[b]fluoranthene, CAS: 205-99-2



TestAmerica Buffalo

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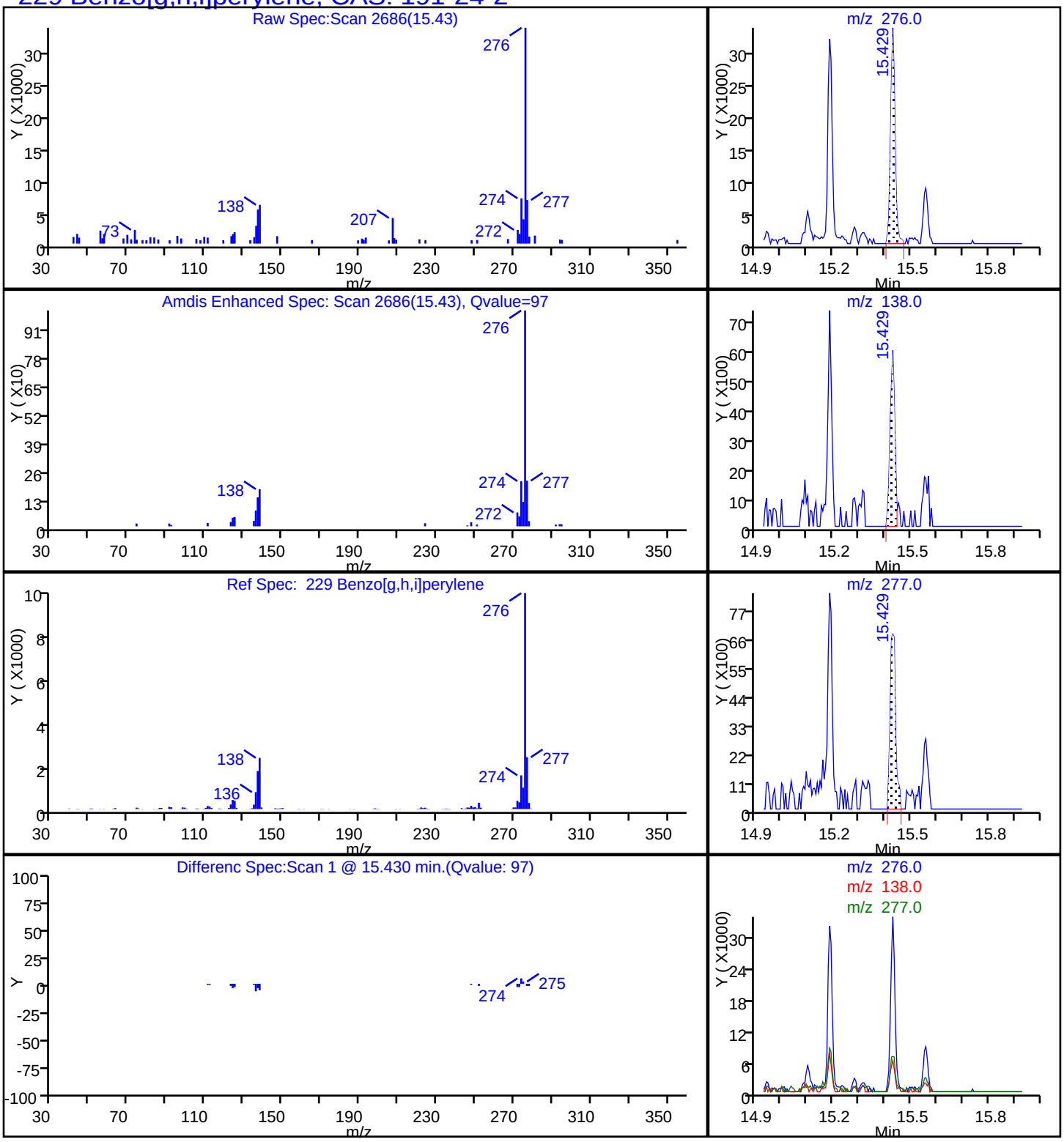
Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

229 Benzo[g,h,i]perylene, CAS: 191-24-2



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D				
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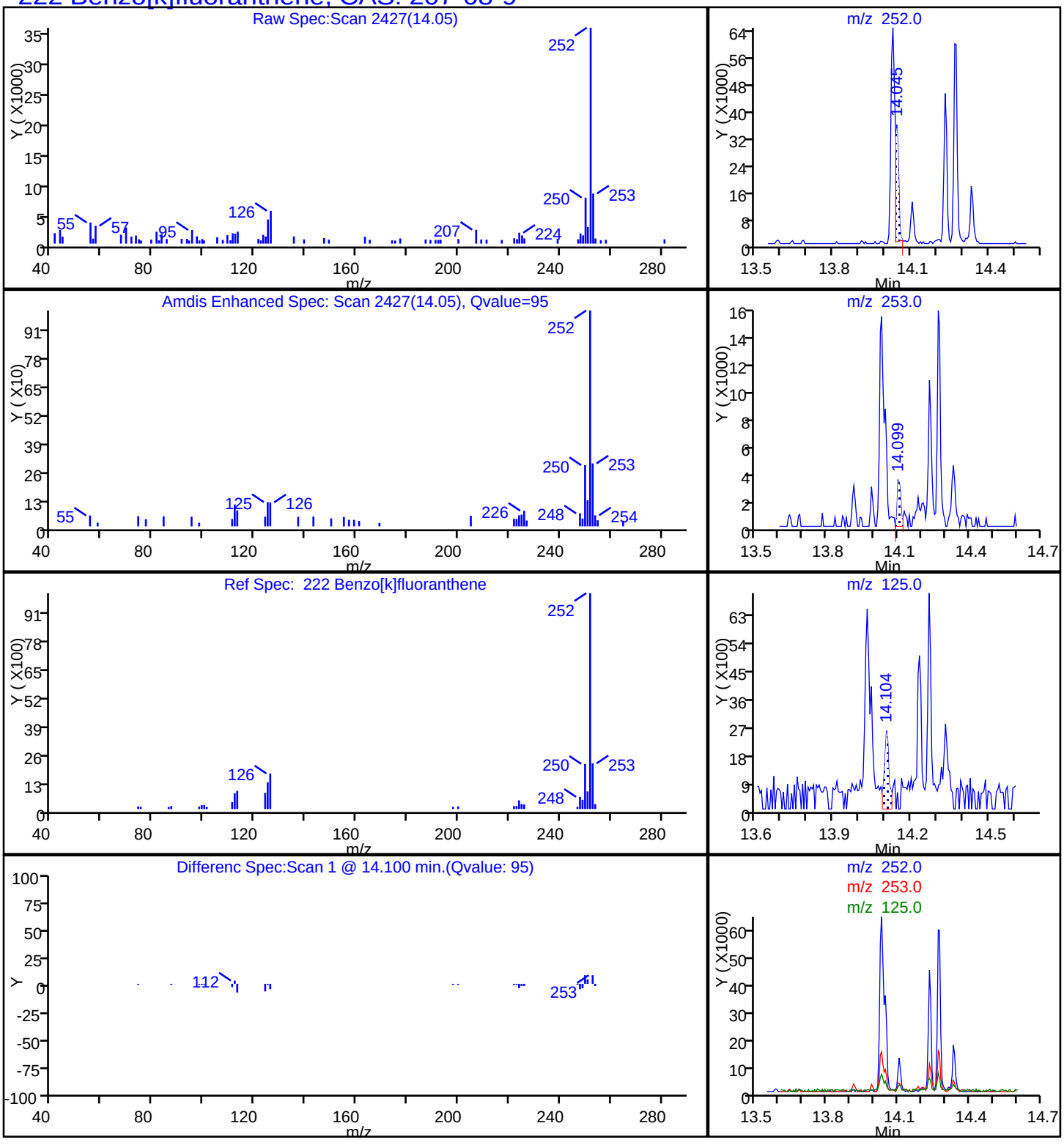
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

222 Benzo[k]fluoranthene, CAS: 207-08-9

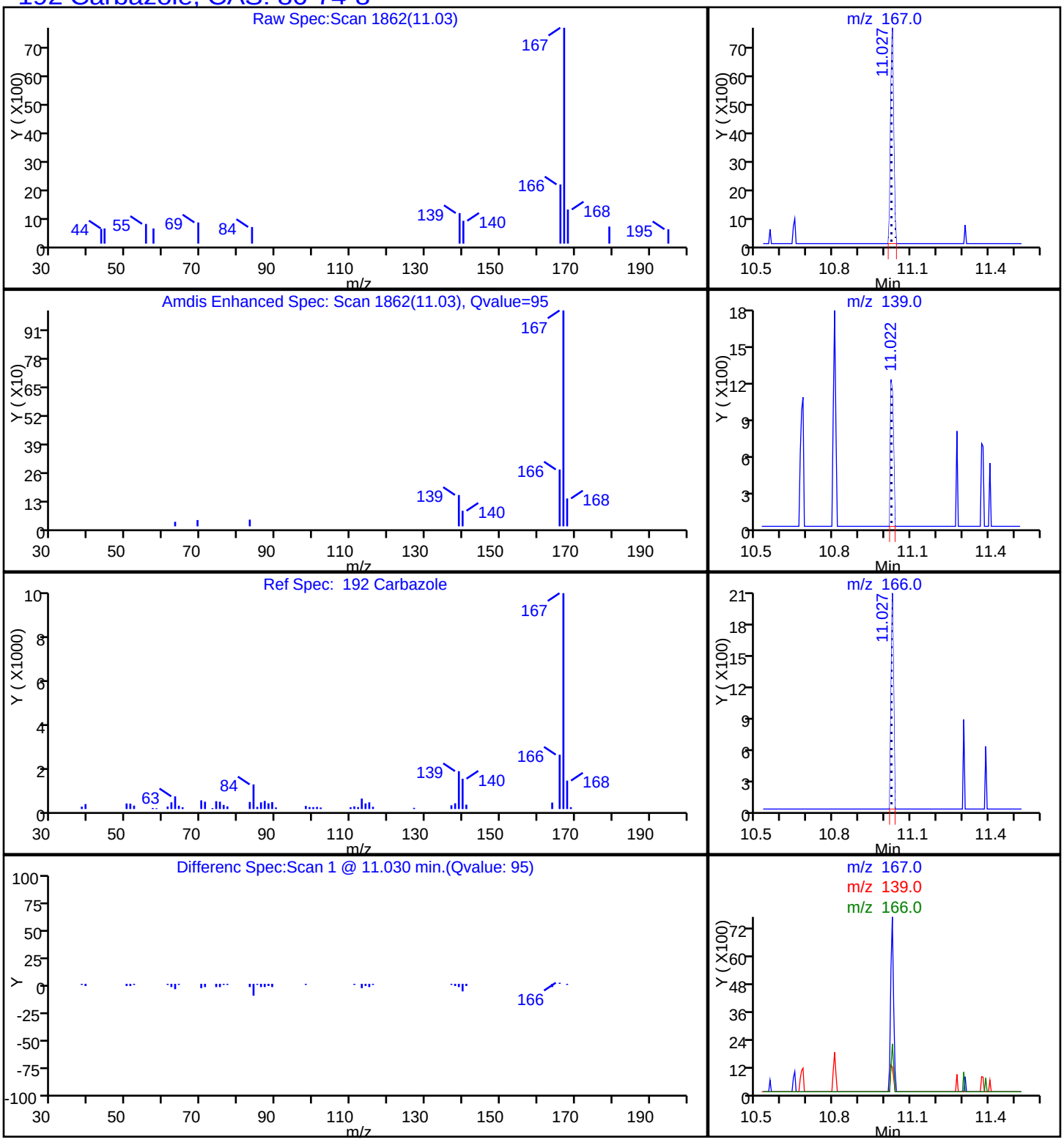


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D

Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2
Client ID:	TP-12		
Operator ID:	PJQ	ALS Bottle#:	23 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000
Method:	V-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

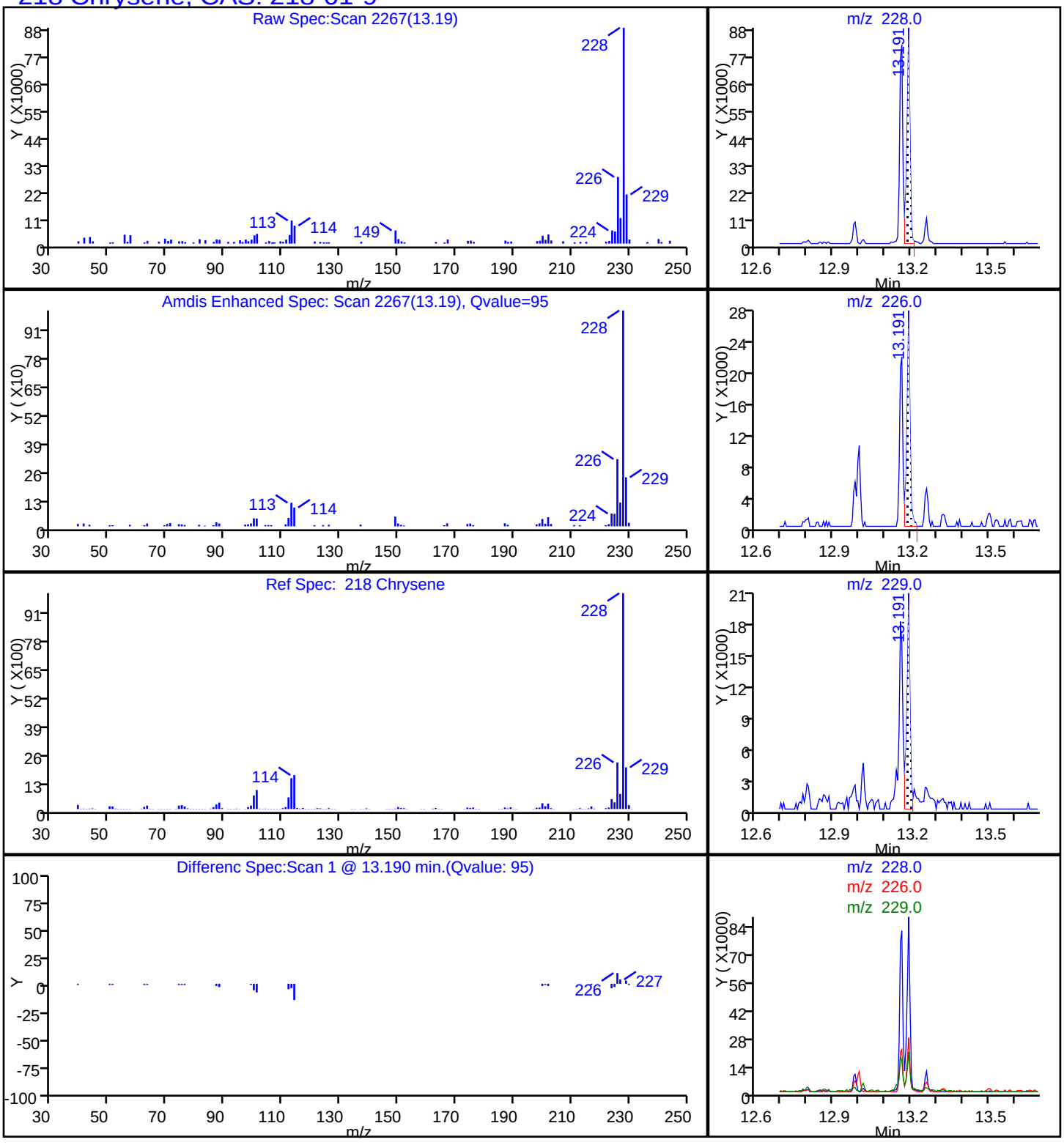
192 Carbazole, CAS: 86-74-8



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D				
Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

218 Chrysene, CAS: 218-01-9



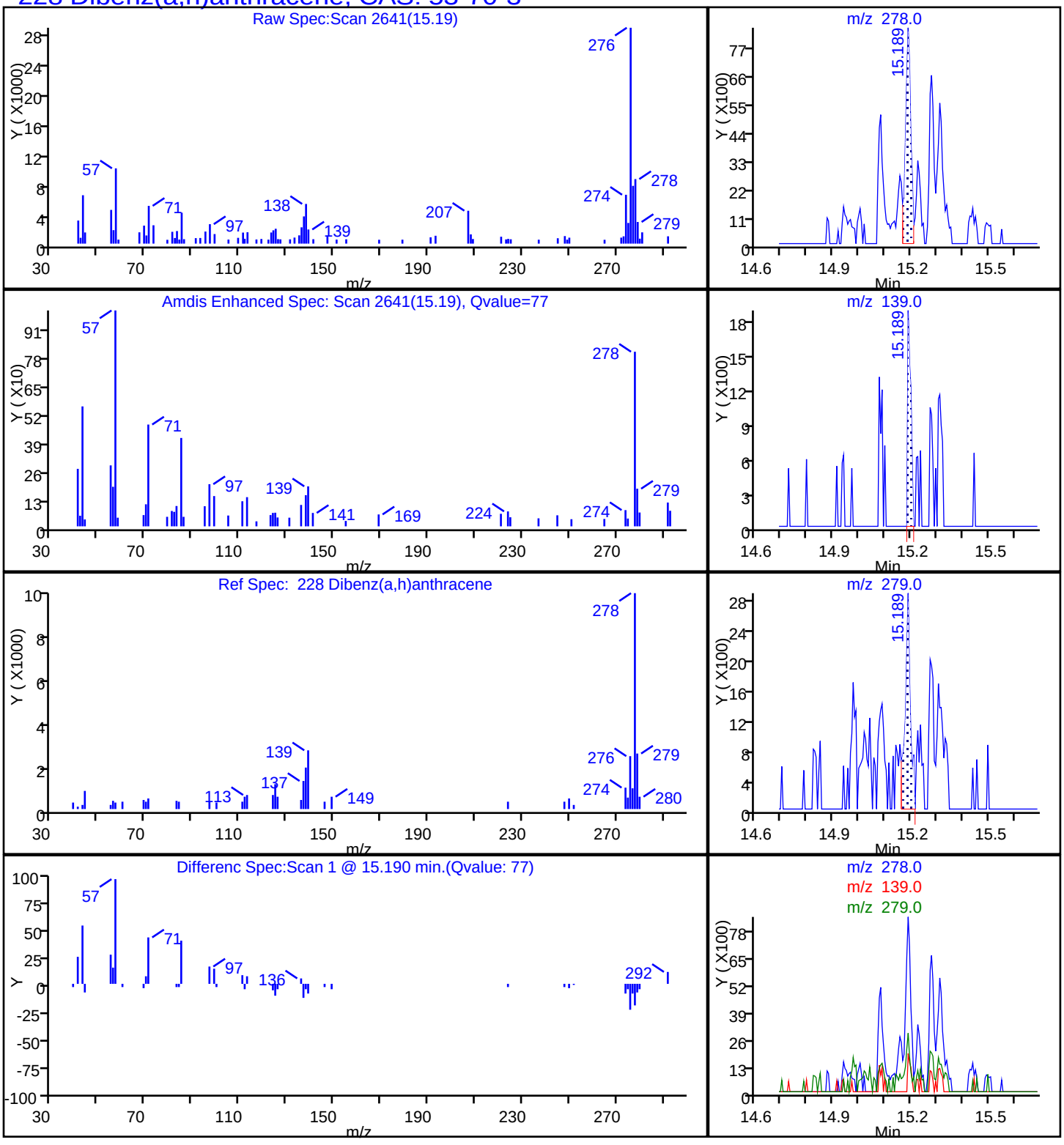
Report Date: 02-Aug-2017 15:46:30 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D

Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

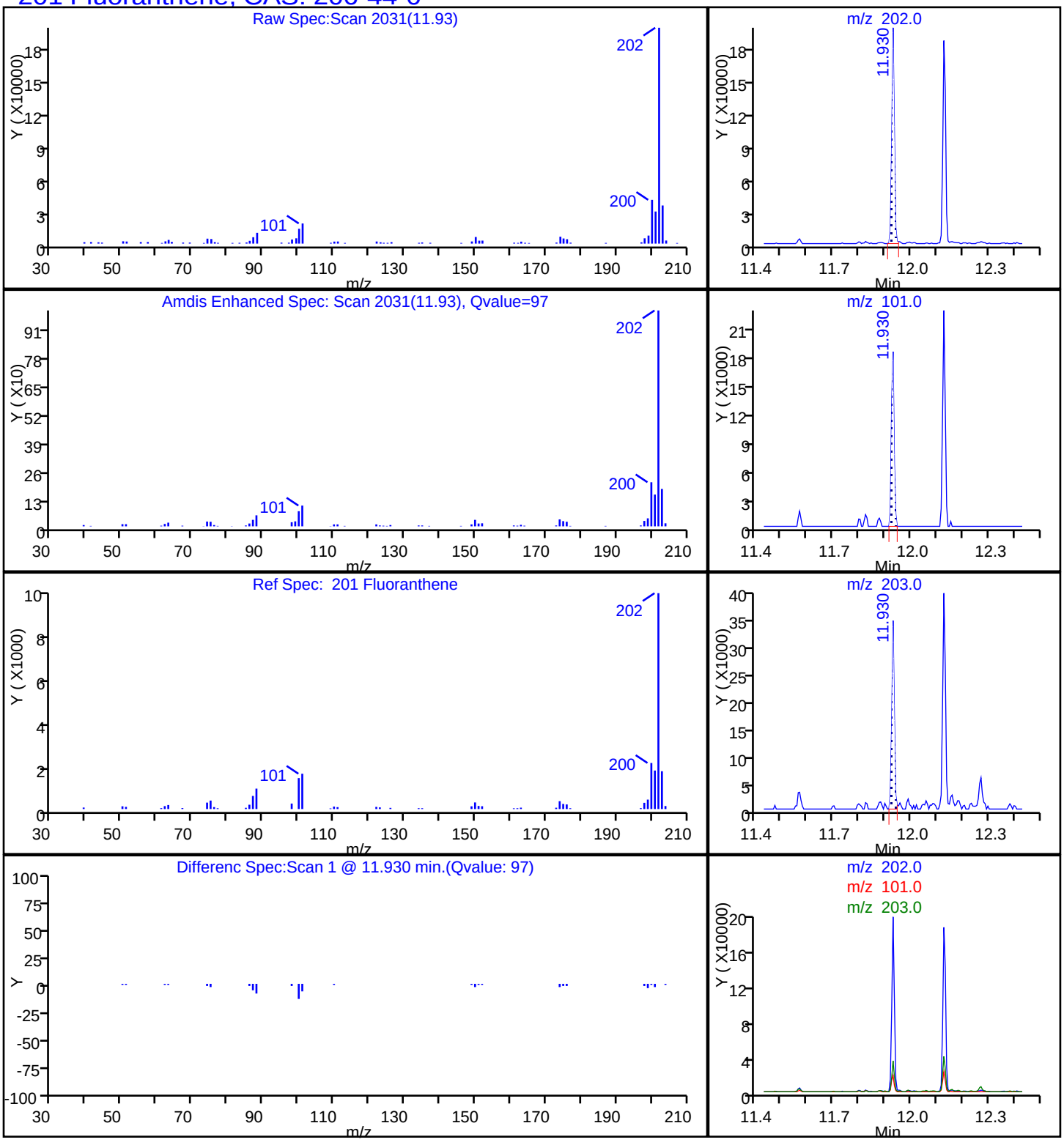
228 Dibenz(a,h)anthracene, CAS: 53-70-3



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D				
Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

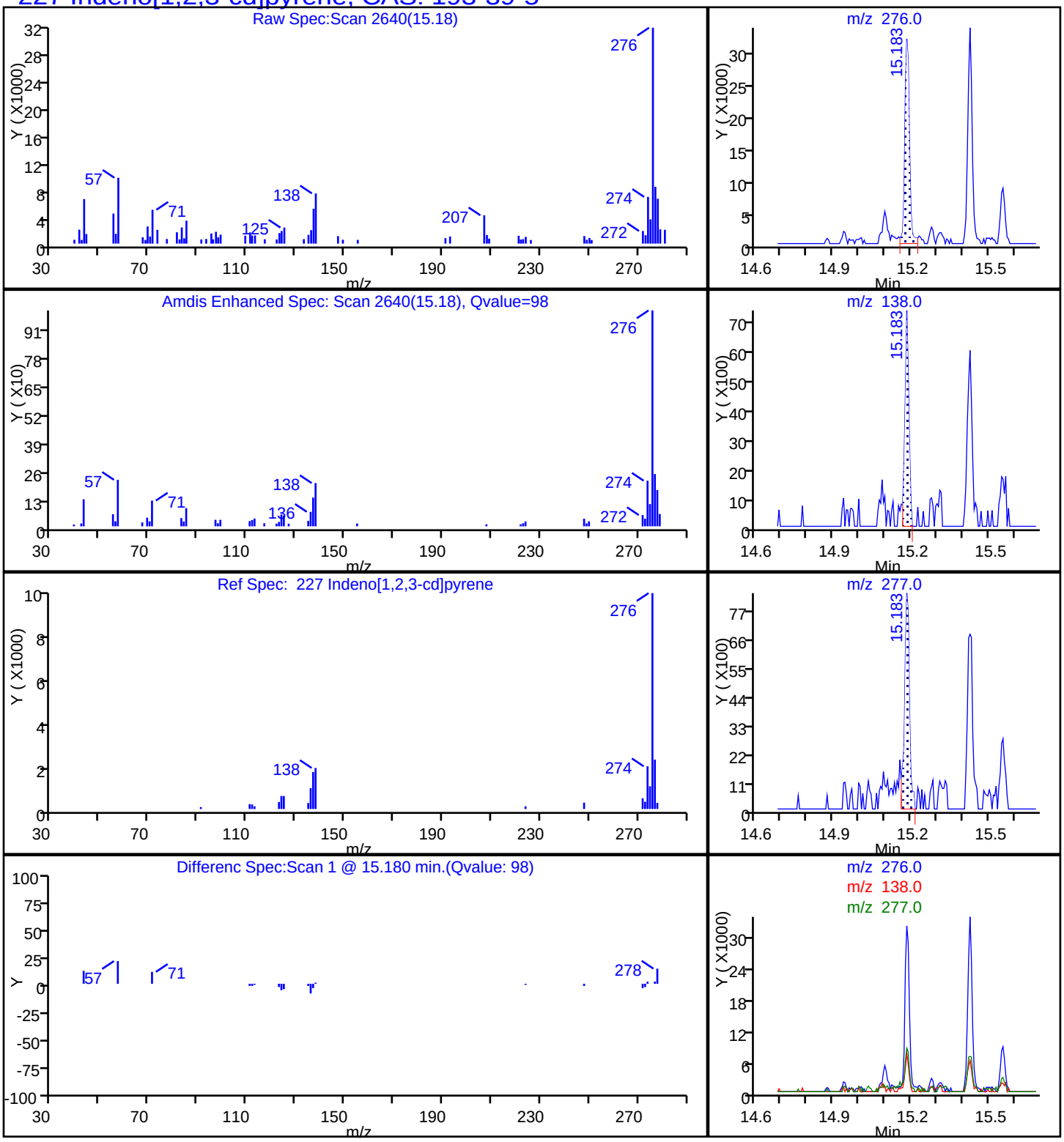
201 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D				
Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

227 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

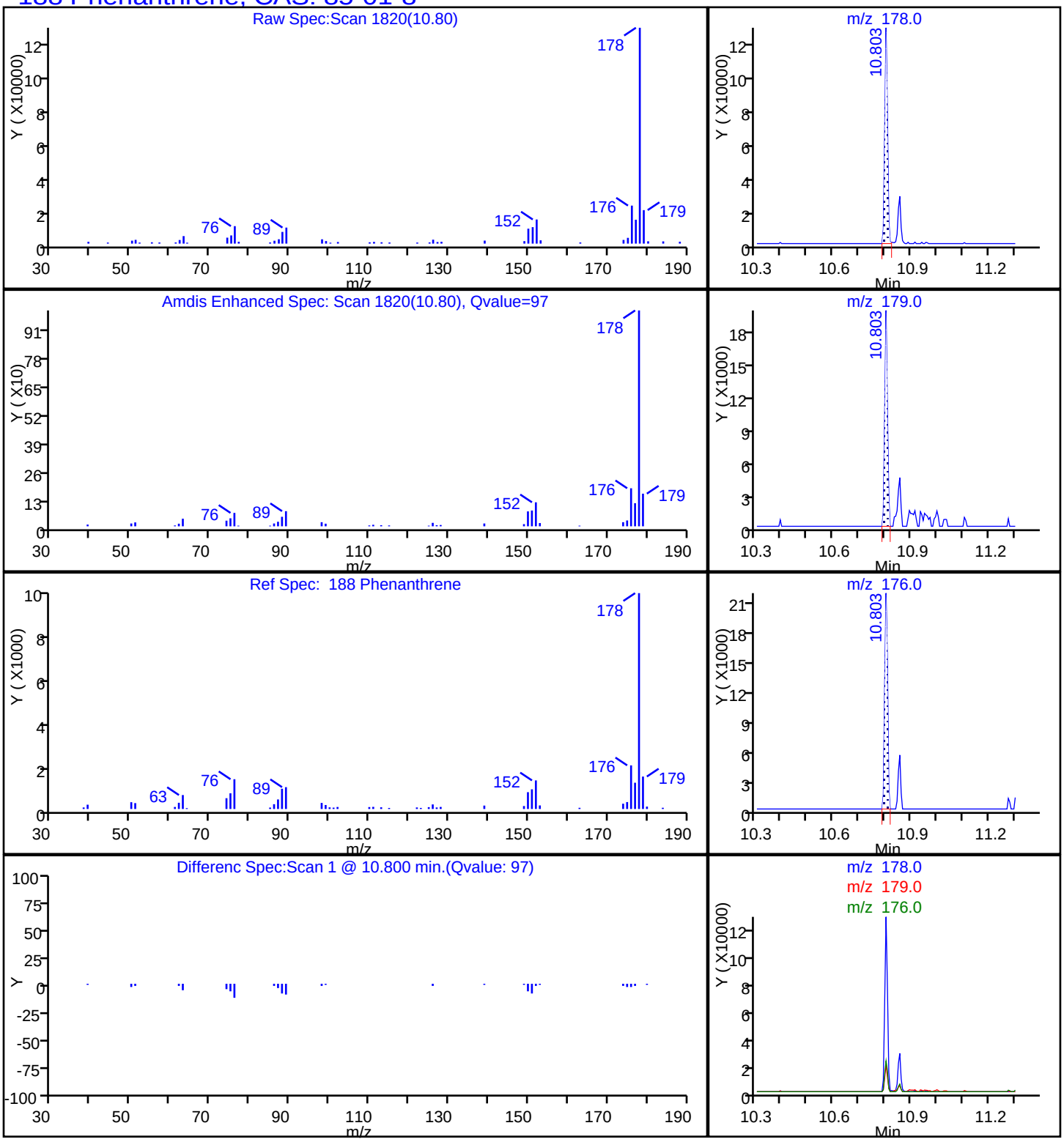


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D

Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2
Client ID:	TP-12		
Operator ID:	PJQ	ALS Bottle#:	23 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000
Method:	V-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

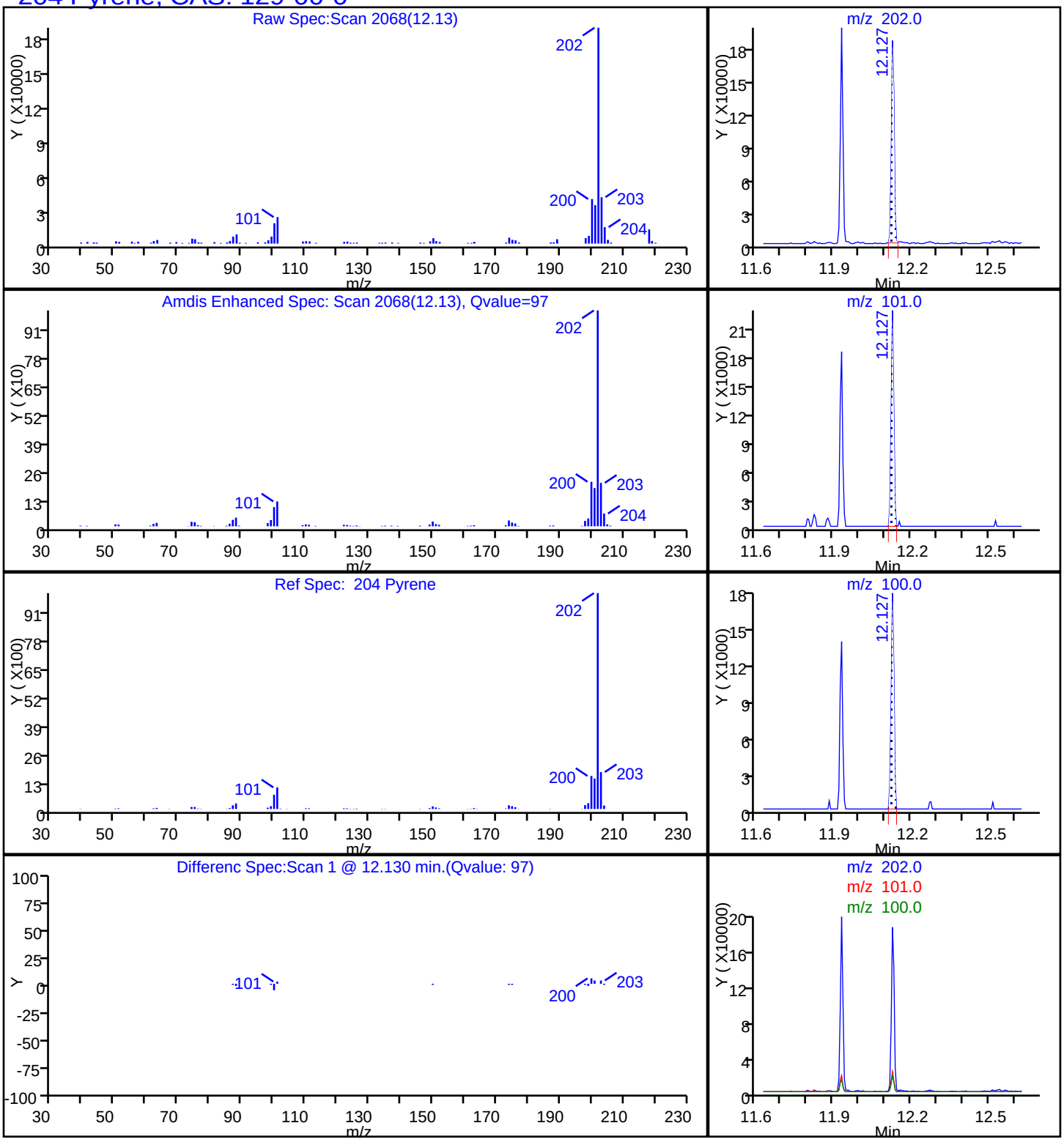
188 Phenanthrene, CAS: 85-01-8



Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D

Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

204 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

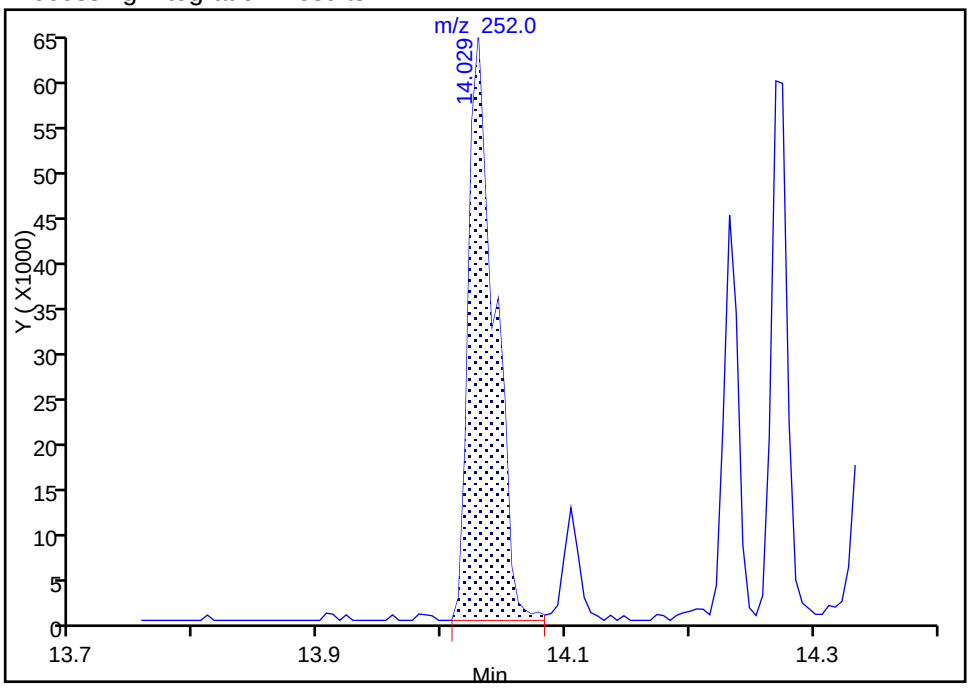
Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D				
Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

221 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

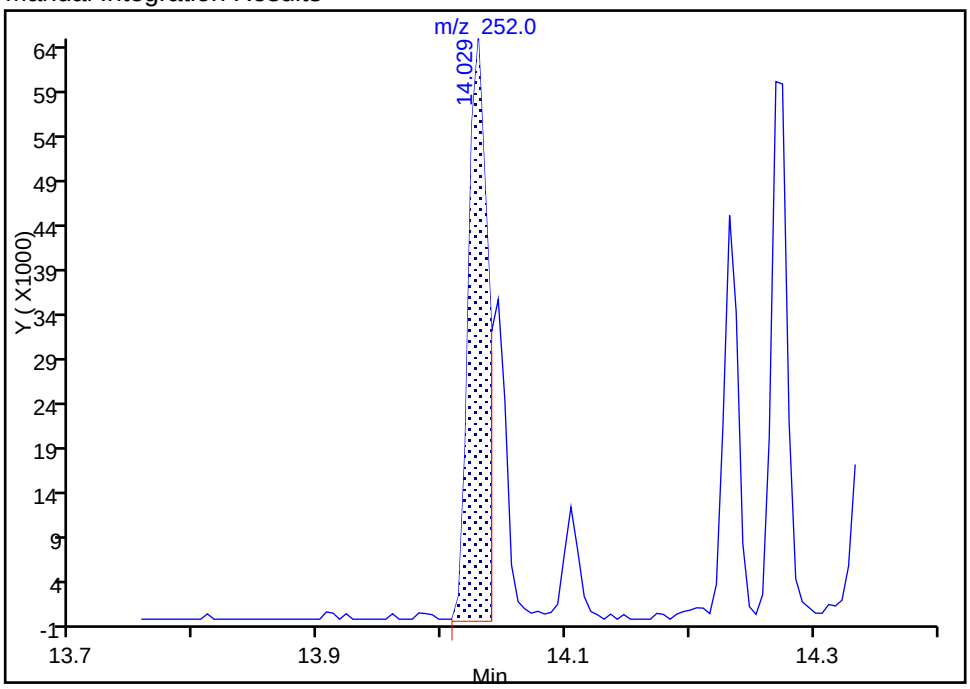
Processing Integration Results

RT: 14.03
Area: 93692
Amount: 10.159087
Amount Units: ng/uL



Manual Integration Results

RT: 14.03
Area: 71435
Amount: 7.745746
Amount Units: ng/uL



Reviewer: quirkp, 02-Aug-2017 12:20:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

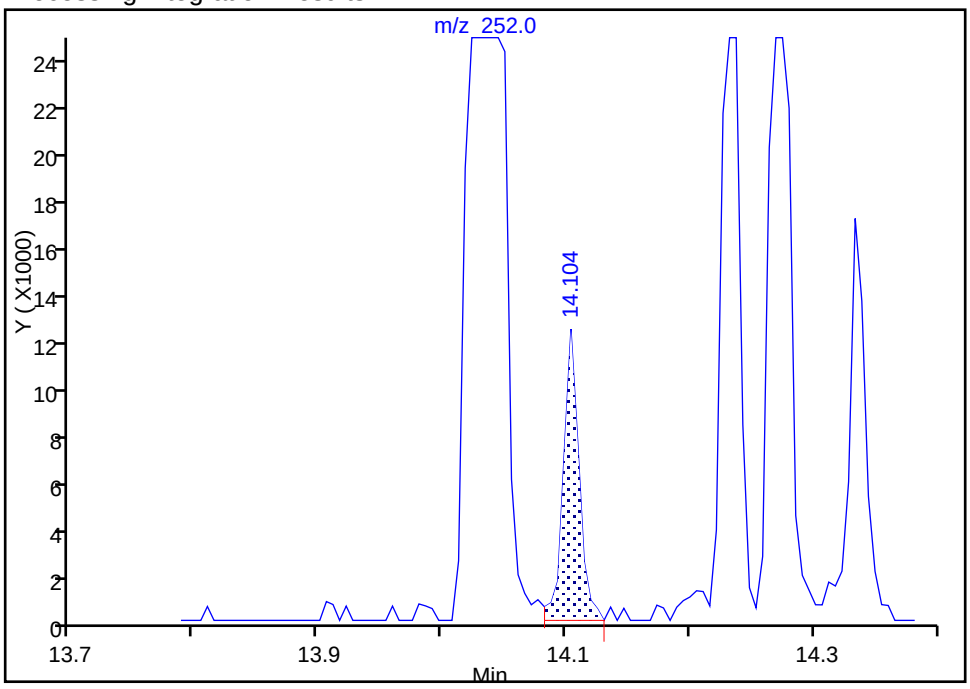
Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304382.D				
Injection Date:	01-Aug-2017 23:13:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-2-B	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	PJQ	ALS Bottle#:	23	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

222 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

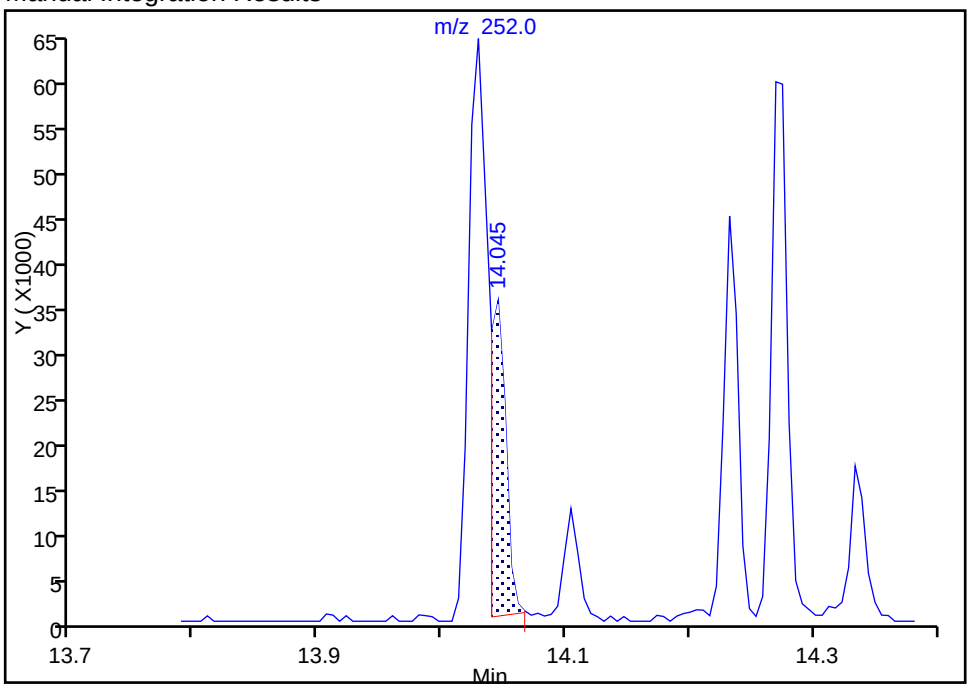
Processing Integration Results

RT: 14.10
Area: 10997
Amount: 1.150776
Amount Units: ng/uL



Manual Integration Results

RT: 14.05
Area: 30961
Amount: 3.239900
Amount Units: ng/uL



Reviewer: quirkp, 02-Aug-2017 12:20:33

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 | Lab Sample ID: 480-121501-3

Matrix: Solid | Lab File ID: V304383.D

Analysis Method: 8270D | Date Collected: 07/21/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.04(g) | Date Analyzed: 08/01/2017 23:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		2100	310
108-60-1	bis (2-chloroisopropyl) ether	ND		2100	420
95-95-4	2,4,5-Trichlorophenol	ND		2100	570
88-06-2	2,4,6-Trichlorophenol	ND		2100	420
120-83-2	2,4-Dichlorophenol	ND		2100	220
105-67-9	2,4-Dimethylphenol	ND		2100	500
51-28-5	2,4-Dinitrophenol	ND		20000	9600
121-14-2	2,4-Dinitrotoluene	ND		2100	430
606-20-2	2,6-Dinitrotoluene	ND		2100	250
91-58-7	2-Chloronaphthalene	ND		2100	340
95-57-8	2-Chlorophenol	ND		2100	380
91-57-6	2-Methylnaphthalene	ND		2100	420
95-48-7	2-Methylphenol	ND		2100	250
88-74-4	2-Nitroaniline	ND		4100	310
88-75-5	2-Nitrophenol	ND		2100	590
91-94-1	3,3'-Dichlorobenzidine	ND		4100	2500
99-09-2	3-Nitroaniline	ND		4100	580
534-52-1	4,6-Dinitro-2-methylphenol	ND		4100	2100
101-55-3	4-Bromophenyl phenyl ether	ND		2100	300
59-50-7	4-Chloro-3-methylphenol	ND		2100	520
106-47-8	4-Chloroaniline	ND		2100	520
7005-72-3	4-Chlorophenyl phenyl ether	ND		2100	260
106-44-5	4-Methylphenol	ND		4100	250
100-01-6	4-Nitroaniline	ND		4100	1100
100-02-7	4-Nitrophenol	ND		4100	1500
83-32-9	Acenaphthene	ND		2100	310
208-96-8	Acenaphthylene	ND		2100	270
98-86-2	Acetophenone	ND		2100	280
120-12-7	Anthracene	ND		2100	520
1912-24-9	Atrazine	ND		2100	730
100-52-7	Benzaldehyde	ND	F2	2100	1700
56-55-3	Benzo(a)anthracene	ND		2100	210
50-32-8	Benzo(a)pyrene	ND		2100	310
205-99-2	Benzo(b)fluoranthene	ND		2100	330

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 | Lab Sample ID: 480-121501-3

Matrix: Solid | Lab File ID: V304383.D

Analysis Method: 8270D | Date Collected: 07/21/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.04(g) | Date Analyzed: 08/01/2017 23:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		2100	220
207-08-9	Benzo(k)fluoranthene	ND		2100	270
111-91-1	Bis(2-chloroethoxy)methane	ND		2100	440
111-44-4	Bis(2-chloroethyl)ether	ND		2100	270
117-81-7	Bis(2-ethylhexyl) phthalate	ND		2100	710
85-68-7	Butyl benzyl phthalate	ND		2100	340
105-60-2	Caprolactam	ND		2100	630
86-74-8	Carbazole	ND		2100	250
218-01-9	Chrysene	ND		2100	470
84-74-2	Di-n-butyl phthalate	ND		2100	360
117-84-0	Di-n-octyl phthalate	ND		2100	250
53-70-3	Dibenz(a,h)anthracene	ND		2100	370
132-64-9	Dibenzofuran	ND		2100	250
84-66-2	Diethyl phthalate	ND		2100	270
131-11-3	Dimethyl phthalate	ND		2100	250
206-44-0	Fluoranthene	270	J	2100	220
86-73-7	Fluorene	ND		2100	250
118-74-1	Hexachlorobenzene	ND		2100	280
87-68-3	Hexachlorobutadiene	ND		2100	310
77-47-4	Hexachlorocyclopentadiene	ND		2100	280
67-72-1	Hexachloroethane	ND		2100	270
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2100	260
78-59-1	Isophorone	ND		2100	440
621-64-7	N-Nitrosodi-n-propylamine	ND		2100	360
86-30-6	N-Nitrosodiphenylamine	ND		2100	1700
91-20-3	Naphthalene	ND		2100	270
98-95-3	Nitrobenzene	ND		2100	230
87-86-5	Pentachlorophenol	ND		4100	2100
85-01-8	Phenanthrene	ND		2100	310
108-95-2	Phenol	ND		2100	320
129-00-0	Pyrene	ND		2100	250

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 | Lab Sample ID: 480-121501-3

Matrix: Solid | Lab File ID: V304383.D

Analysis Method: 8270D | Date Collected: 07/21/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.04(g) | Date Analyzed: 08/01/2017 23:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	70		54-120
321-60-8	2-Fluorobiphenyl	87		60-120
367-12-4	2-Fluorophenol	72		52-120
4165-60-0	Nitrobenzene-d5	73		53-120
1718-51-0	p-Terphenyl-d14	105		65-121
4165-62-2	Phenol-d5	71		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304383.D
Lims ID: 480-121501-A-3-F
Client ID: TP-11
Sample Type: Client
Inject. Date: 01-Aug-2017 23:40:30 ALS Bottle#: 24 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0064505-014
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:21:51

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.525	5.524	0.001	97	101822	40.0	
*	2 Naphthalene-d8	136	7.084	7.084	0.000	100	364478	40.0	
*	3 Acenaphthene-d10	164	9.147	9.152	-0.005	98	184246	40.0	
*	4 Phenanthrene-d10	188	10.781	10.781	0.000	97	345122	40.0	
*	5 Chrysene-d12	240	13.169	13.175	-0.006	98	334707	40.0	
*	6 Perylene-d12	264	14.318	14.318	0.000	99	320425	40.0	
$	7 2-Fluorophenol	112	3.762	3.751	0.011	92	9184	2.87	
$	8 Phenol-d5	99	5.103	5.102	0.000	95	10874	2.85	
$	9 Nitrobenzene-d5	82	6.224	6.224	0.000	93	9777	2.92	
$	10 2-Fluorobiphenyl	172	8.383	8.383	0.000	99	23809	3.49	
$	11 2,4,6-Tribromophenol	330	10.060	10.060	0.000	89	2831	2.79	
$	12 p-Terphenyl-d14	244	12.277	12.282	-0.005	99	28480	4.18	
	80 Benzaldehyde	77		4.953				ND	
	81 Phenol	94		5.118				ND	
	83 Bis(2-chloroethyl)ether	93		5.209				ND	
	84 2-Chlorophenol	128		5.257				ND	
	92 2-Methylphenol	108		5.888				ND	
	93 2,2'-oxybis[1-chloropropan	45		5.909				ND	
	94 Acetophenone	105		6.043				ND	
	95 N-Nitrosodi-n-propylamine	70		6.064				ND	
	96 4-Methylphenol	108		6.091				ND	
	99 Hexachloroethane	117		6.155				ND	
	102 Nitrobenzene	77		6.246				ND	
	106 Isophorone	82		6.545				ND	
	107 2-Nitrophenol	139		6.641				ND	
	108 2,4-Dimethylphenol	107		6.726				ND	
	111 Bis(2-chloroethoxy)methane	93		6.833				ND	
	114 2,4-Dichlorophenol	162		6.935				ND	
	118 Naphthalene	128		7.111				ND	
	119 4-Chloroaniline	127		7.197				ND	
	121 Hexachlorobutadiene	225		7.287				ND	
	124 Caprolactam	113		7.624				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107		7.806				ND	
131 2-Methylnaphthalene	142		7.939				ND	
134 Hexachlorocyclopentadiene	237		8.137				ND	
137 2,4,6-Trichlorophenol	196		8.286				ND	
138 2,4,5-Trichlorophenol	196		8.329				ND	
140 1,1'-Biphenyl	154		8.495				ND	
141 2-Chloronaphthalene	162		8.505				ND	
143 2-Nitroaniline	65		8.639				ND	
146 Dimethyl phthalate	163		8.874				ND	
149 2,6-Dinitrotoluene	165		8.933				ND	
150 Acenaphthylene	152		8.981				ND	
151 3-Nitroaniline	138		9.120				ND	
152 Acenaphthene	153		9.189				ND	
153 2,4-Dinitrophenol	184		9.248				ND	
154 4-Nitrophenol	109		9.355				ND	
155 Dibenzofuran	168		9.392				ND	
156 2,4-Dinitrotoluene	165		9.398				ND	
161 Diethyl phthalate	149		9.702				ND	
162 Fluorene	166		9.788				ND	
163 4-Chlorophenyl phenyl ethe	204		9.804				ND	
164 4-Nitroaniline	138		9.830				ND	
165 4,6-Dinitro-2-methylphenol	198		9.873				ND	
168 N-Nitrosodiphenylamine	169		9.942				ND	
175 4-Bromophenyl phenyl ether	248		10.338				ND	
179 Hexachlorobenzene	284		10.397				ND	
180 Atrazine	200		10.535				ND	
183 Pentachlorophenol	266		10.610				ND	
188 Phenanthrene	178		10.808				ND	
189 Anthracene	178		10.856				ND	
192 Carbazole	167		11.027				ND	
195 Di-n-butyl phthalate	149		11.390				ND	
201 Fluoranthene	202	11.930	11.935	-0.005	94	7015	0.6564	
204 Pyrene	202	12.128	12.133	-0.005	96	4968	0.5228	
210 Butyl benzyl phthalate	149		12.710				ND	
215 3,3'-Dichlorobenzidine	252		13.148				ND	
217 Benzo[a]anthracene	228		13.164				ND	
216 Bis(2-ethylhexyl) phthalat	149		13.191				ND	
218 Chrysene	228	13.191	13.196	-0.005	89	2932	0.3308	
220 Di-n-octyl phthalate	149		13.714				ND	
221 Benzo[b]fluoranthene	252		14.029				ND	
222 Benzo[k]fluoranthene	252		14.051				ND	
225 Benzo[a]pyrene	252		14.275				ND	
227 Indeno[1,2,3-cd]pyrene	276		15.189				ND	
228 Dibenz(a,h)anthracene	278		15.194				ND	
229 Benzo[g,h,i]perylene	276		15.434				ND	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

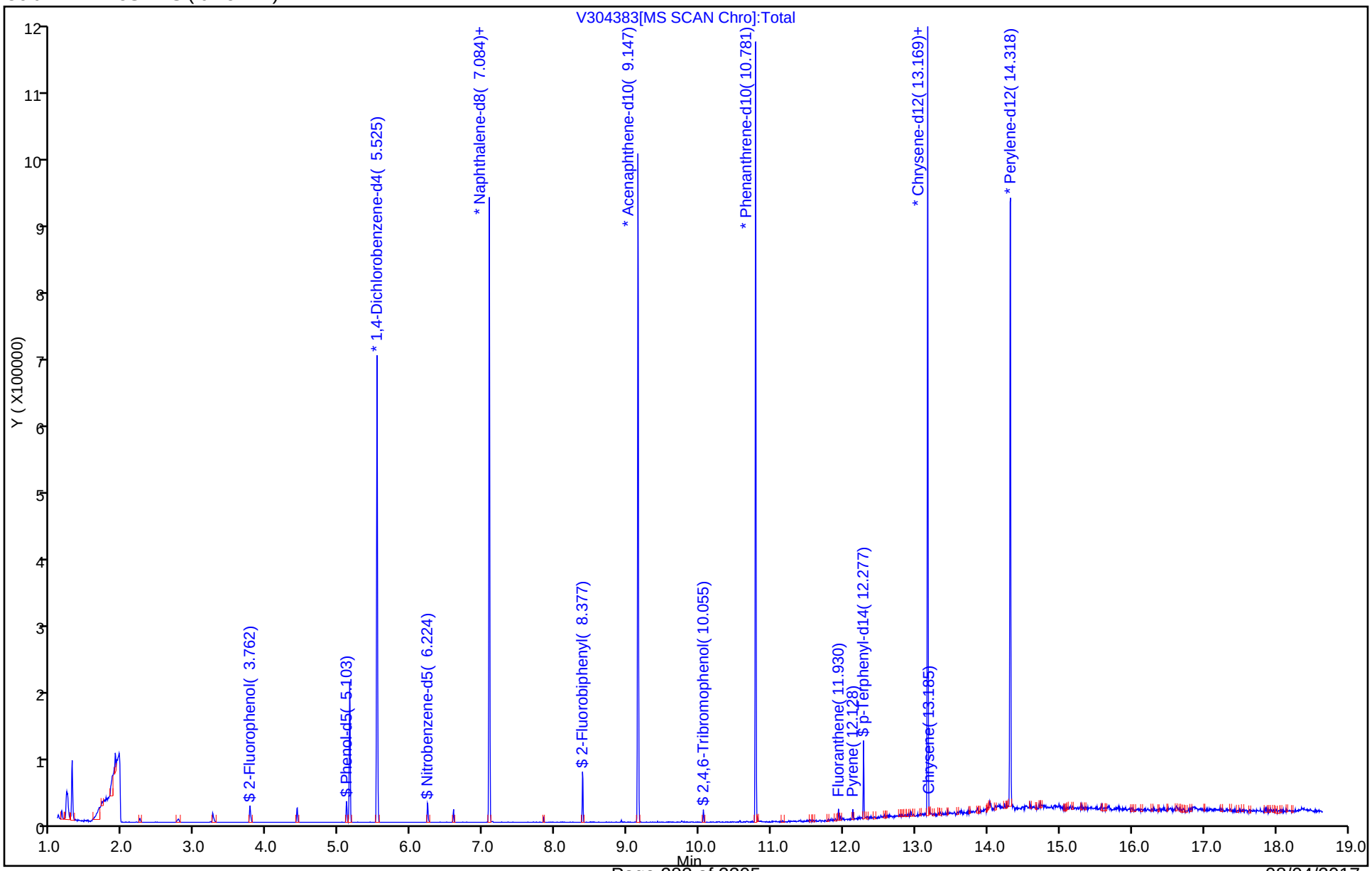
Report Date: 02-Aug-2017 15:46:33 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304383.D

Injection Date:	01-Aug-2017 23:40:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121501-A-3-F	Lab Sample ID:	480-121501-3	Worklist Smp#:	14
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	24
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

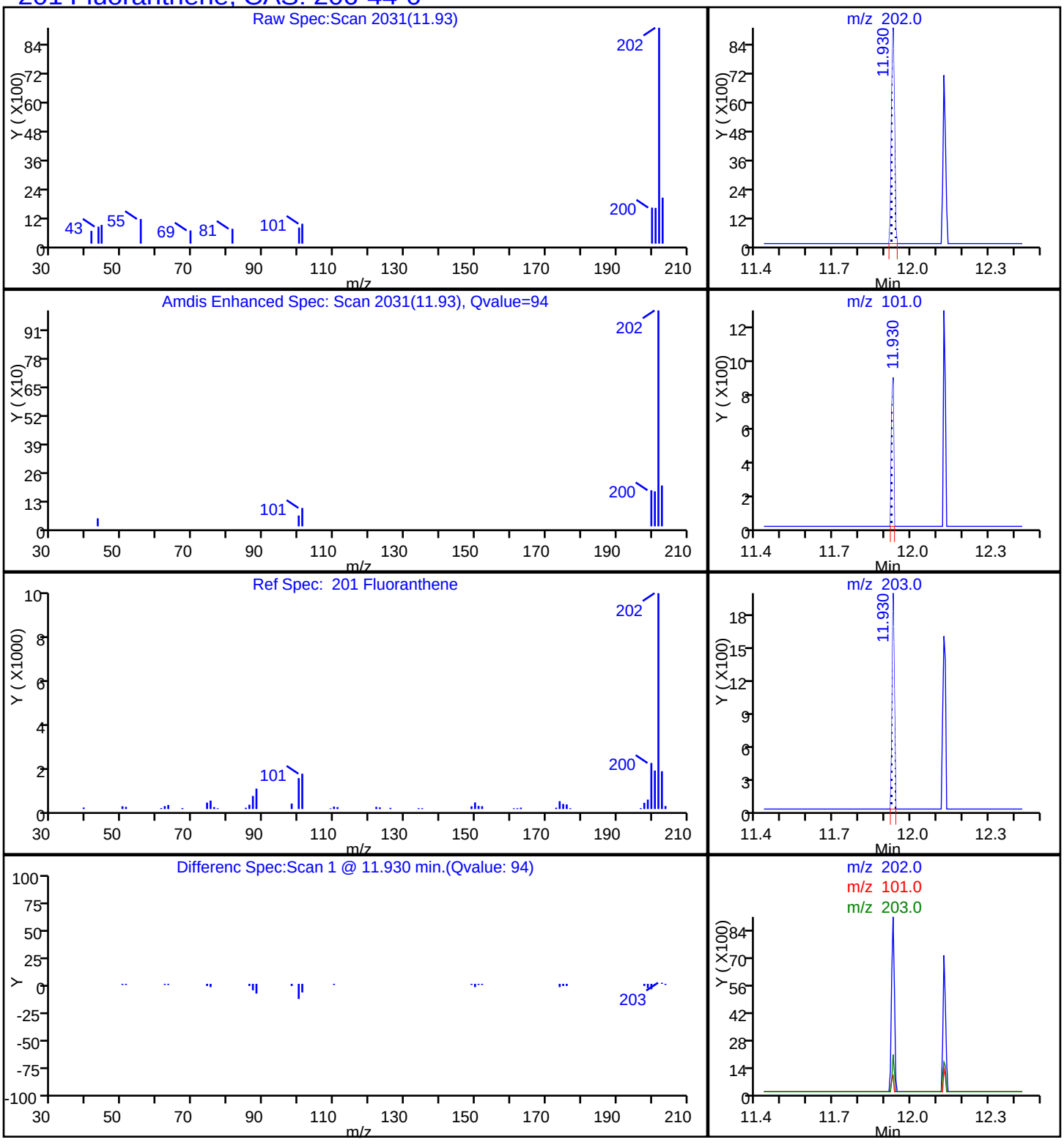
Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304383.D				
Injection Date:	01-Aug-2017 23:40:30	Instrument ID:	HP5973V		
Lims ID:	480-121501-A-3-F	Lab Sample ID:	480-121501-3		
Client ID:	TP-11				
Operator ID:	PJQ	ALS Bottle#:	24	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

201 Fluoranthene, CAS: 206-44-0



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-16 | Lab Sample ID: 480-121501-4

Matrix: Solid | Lab File ID: V304384.D

Analysis Method: 8270D | Date Collected: 07/21/2017 14:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.44(g) | Date Analyzed: 08/02/2017 00:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		210	30
108-60-1	bis (2-chloroisopropyl) ether	ND		210	41
95-95-4	2,4,5-Trichlorophenol	ND		210	56
88-06-2	2,4,6-Trichlorophenol	ND		210	41
120-83-2	2,4-Dichlorophenol	ND		210	22
105-67-9	2,4-Dimethylphenol	ND		210	50
51-28-5	2,4-Dinitrophenol	ND		2000	950
121-14-2	2,4-Dinitrotoluene	ND		210	42
606-20-2	2,6-Dinitrotoluene	ND		210	24
91-58-7	2-Chloronaphthalene	ND		210	34
95-57-8	2-Chlorophenol	ND		210	37
91-57-6	2-Methylnaphthalene	ND		210	41
95-48-7	2-Methylphenol	ND		210	24
88-74-4	2-Nitroaniline	ND		400	30
88-75-5	2-Nitrophenol	ND		210	58
91-94-1	3,3'-Dichlorobenzidine	ND		400	240
99-09-2	3-Nitroaniline	ND		400	57
534-52-1	4,6-Dinitro-2-methylphenol	ND		400	210
101-55-3	4-Bromophenyl phenyl ether	ND		210	29
59-50-7	4-Chloro-3-methylphenol	ND		210	51
106-47-8	4-Chloroaniline	ND		210	51
7005-72-3	4-Chlorophenyl phenyl ether	ND		210	25
106-44-5	4-Methylphenol	ND		400	24
100-01-6	4-Nitroaniline	ND		400	110
100-02-7	4-Nitrophenol	ND		400	140
83-32-9	Acenaphthene	ND		210	30
208-96-8	Acenaphthylene	ND		210	27
98-86-2	Acetophenone	ND		210	28
120-12-7	Anthracene	ND		210	51
1912-24-9	Atrazine	ND		210	71
100-52-7	Benzaldehyde	ND		210	160
56-55-3	Benzo(a)anthracene	ND		210	21
50-32-8	Benzo(a)pyrene	ND		210	30
205-99-2	Benzo(b)fluoranthene	ND		210	33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-16 | Lab Sample ID: 480-121501-4

Matrix: Solid | Lab File ID: V304384.D

Analysis Method: 8270D | Date Collected: 07/21/2017 14:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.44(g) | Date Analyzed: 08/02/2017 00:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		210	22
207-08-9	Benzo(k)fluoranthene	ND		210	27
111-91-1	Bis(2-chloroethoxy)methane	ND		210	44
111-44-4	Bis(2-chloroethyl)ether	ND		210	27
117-81-7	Bis(2-ethylhexyl) phthalate	ND		210	70
85-68-7	Butyl benzyl phthalate	ND		210	34
105-60-2	Caprolactam	ND		210	62
86-74-8	Carbazole	ND		210	24
218-01-9	Chrysene	ND		210	46
84-74-2	Di-n-butyl phthalate	ND		210	35
117-84-0	Di-n-octyl phthalate	ND		210	24
53-70-3	Dibenz(a,h)anthracene	ND		210	36
132-64-9	Dibenzofuran	ND		210	24
84-66-2	Diethyl phthalate	ND		210	27
131-11-3	Dimethyl phthalate	ND		210	24
206-44-0	Fluoranthene	ND		210	22
86-73-7	Fluorene	ND		210	24
118-74-1	Hexachlorobenzene	ND		210	28
87-68-3	Hexachlorobutadiene	ND		210	30
77-47-4	Hexachlorocyclopentadiene	ND		210	28
67-72-1	Hexachloroethane	ND		210	27
193-39-5	Indeno(1,2,3-cd)pyrene	ND		210	25
78-59-1	Isophorone	ND		210	44
621-64-7	N-Nitrosodi-n-propylamine	ND		210	35
86-30-6	N-Nitrosodiphenylamine	ND		210	170
91-20-3	Naphthalene	ND		210	27
98-95-3	Nitrobenzene	ND		210	23
87-86-5	Pentachlorophenol	ND		400	210
85-01-8	Phenanthrene	ND		210	30
108-95-2	Phenol	ND		210	31
129-00-0	Pyrene	ND		210	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-16 | Lab Sample ID: 480-121501-4

Matrix: Solid | Lab File ID: V304384.D

Analysis Method: 8270D | Date Collected: 07/21/2017 14:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.44(g) | Date Analyzed: 08/02/2017 00:06

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	95		54-120
321-60-8	2-Fluorobiphenyl	91		60-120
367-12-4	2-Fluorophenol	87		52-120
4165-60-0	Nitrobenzene-d5	90		53-120
1718-51-0	p-Terphenyl-d14	98		65-121
4165-62-2	Phenol-d5	89		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304384.D
Lims ID: 480-121501-A-4-B
Client ID: TP-16
Sample Type: Client
Inject. Date: 02-Aug-2017 00:06:30 ALS Bottle#: 25 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064505-015
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:22:34

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.524	5.524	0.000	97	106642	40.0	
*	2 Naphthalene-d8	136	7.084	7.084	0.000	99	368598	40.0	
*	3 Acenaphthene-d10	164	9.147	9.152	-0.005	96	175890	40.0	
*	4 Phenanthrene-d10	188	10.781	10.781	0.000	97	309233	40.0	
*	5 Chrysene-d12	240	13.169	13.175	-0.006	97	329197	40.0	
*	6 Perylene-d12	264	14.312	14.318	-0.006	99	303452	40.0	
$	7 2-Fluorophenol	112	3.762	3.751	0.011	95	116402	34.7	
$	8 Phenol-d5	99	5.097	5.102	-0.005	97	142395	35.6	
$	9 Nitrobenzene-d5	82	6.224	6.224	0.000	95	121694	36.0	
$	10 2-Fluorobiphenyl	172	8.377	8.383	-0.006	100	237222	36.4	
$	11 2,4,6-Tribromophenol	330	10.055	10.060	-0.005	94	34534	38.0	
$	12 p-Terphenyl-d14	244	12.277	12.282	-0.005	99	262337	39.2	
	80 Benzaldehyde	77		4.953				ND	
	81 Phenol	94		5.118				ND	
	83 Bis(2-chloroethyl)ether	93		5.209				ND	
	84 2-Chlorophenol	128		5.257				ND	
	92 2-Methylphenol	108		5.888				ND	
	93 2,2'-oxybis[1-chloropropan	45		5.909				ND	
	94 Acetophenone	105		6.043				ND	
	95 N-Nitrosodi-n-propylamine	70		6.064				ND	
	96 4-Methylphenol	108		6.091				ND	
	99 Hexachloroethane	117		6.155				ND	
	102 Nitrobenzene	77		6.246				ND	
	106 Isophorone	82		6.545				ND	
	107 2-Nitrophenol	139		6.641				ND	
	108 2,4-Dimethylphenol	107		6.726				ND	
	111 Bis(2-chloroethoxy)methane	93		6.833				ND	
	114 2,4-Dichlorophenol	162		6.935				ND	
	118 Naphthalene	128		7.111				ND	
	119 4-Chloroaniline	127		7.197				ND	
	121 Hexachlorobutadiene	225		7.287				ND	
	124 Caprolactam	113		7.624				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107		7.806				ND	
131 2-Methylnaphthalene	142		7.939				ND	
134 Hexachlorocyclopentadiene	237		8.137				ND	
137 2,4,6-Trichlorophenol	196		8.286				ND	
138 2,4,5-Trichlorophenol	196		8.329				ND	
140 1,1'-Biphenyl	154		8.495				ND	
141 2-Chloronaphthalene	162		8.505				ND	
143 2-Nitroaniline	65		8.639				ND	
146 Dimethyl phthalate	163		8.874				ND	
149 2,6-Dinitrotoluene	165		8.933				ND	
150 Acenaphthylene	152		8.981				ND	
151 3-Nitroaniline	138		9.120				ND	
152 Acenaphthene	153		9.189				ND	
153 2,4-Dinitrophenol	184		9.248				ND	
154 4-Nitrophenol	109		9.355				ND	
155 Dibenzofuran	168		9.392				ND	
156 2,4-Dinitrotoluene	165		9.398				ND	
161 Diethyl phthalate	149		9.702				ND	
162 Fluorene	166		9.788				ND	
163 4-Chlorophenyl phenyl ethe	204		9.804				ND	
164 4-Nitroaniline	138		9.830				ND	
165 4,6-Dinitro-2-methylphenol	198		9.873				ND	
168 N-Nitrosodiphenylamine	169		9.942				ND	
175 4-Bromophenyl phenyl ether	248		10.338				ND	
179 Hexachlorobenzene	284		10.397				ND	
180 Atrazine	200		10.535				ND	
183 Pentachlorophenol	266		10.610				ND	
188 Phenanthrene	178		10.808				ND	
189 Anthracene	178		10.856				ND	
192 Carbazole	167		11.027				ND	
195 Di-n-butyl phthalate	149		11.390				ND	
201 Fluoranthene	202		11.935				ND	
204 Pyrene	202		12.133				ND	
210 Butyl benzyl phthalate	149		12.710				ND	
215 3,3'-Dichlorobenzidine	252		13.148				ND	
217 Benzo[a]anthracene	228		13.164				ND	
216 Bis(2-ethylhexyl) phthalat	149		13.191				ND	
218 Chrysene	228		13.196				ND	
220 Di-n-octyl phthalate	149		13.714				ND	
221 Benzo[b]fluoranthene	252		14.029				ND	
222 Benzo[k]fluoranthene	252		14.051				ND	
225 Benzo[a]pyrene	252		14.275				ND	
227 Indeno[1,2,3-cd]pyrene	276		15.189				ND	
228 Dibenz(a,h)anthracene	278		15.194				ND	
229 Benzo[g,h,i]perylene	276		15.434				ND	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

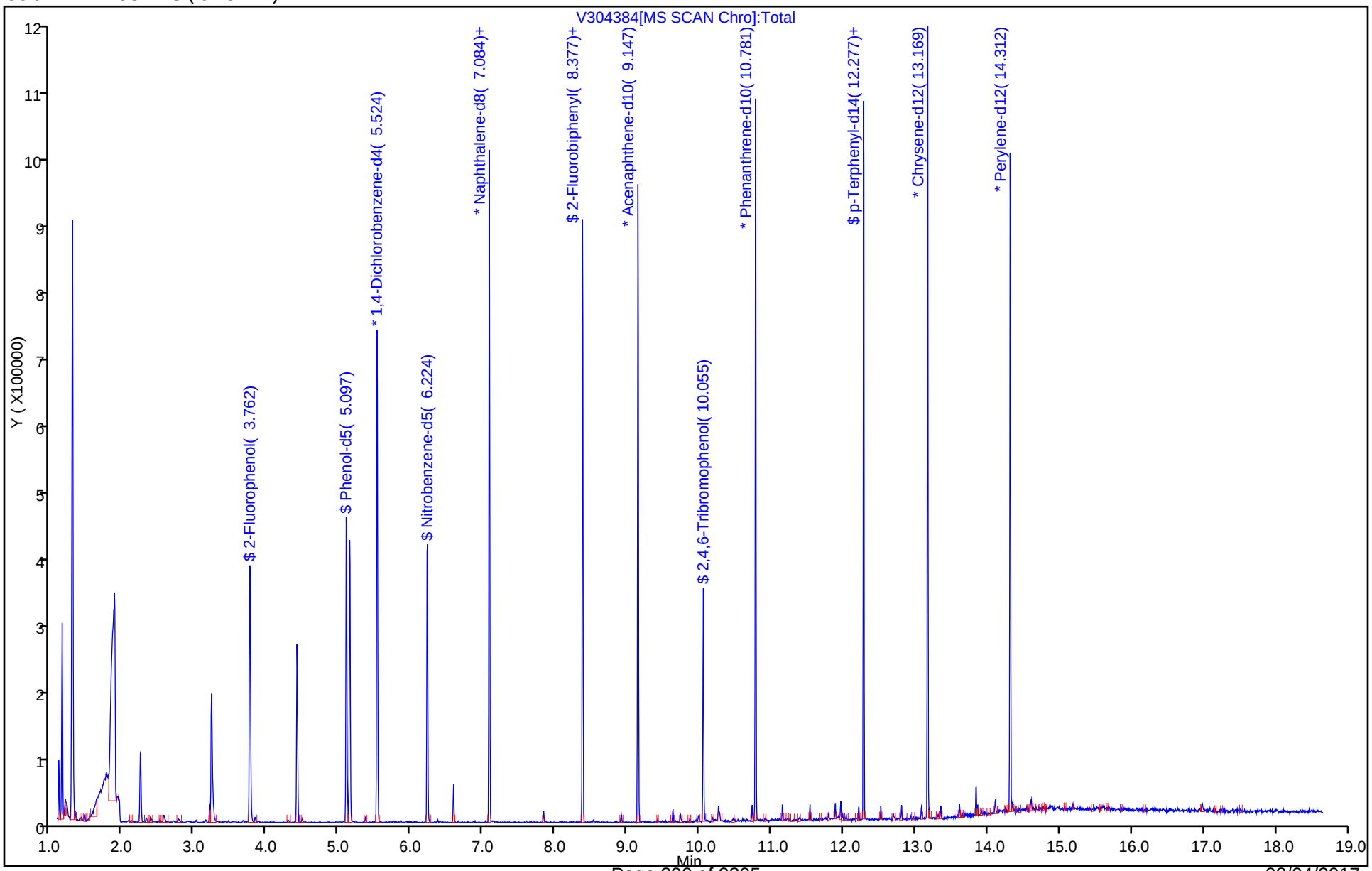
Report Date: 02-Aug-2017 15:46:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304384.D

Injection Date:	02-Aug-2017 00:06:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121501-A-4-B	Lab Sample ID:	480-121501-4	Worklist Smp#:	15
Client ID:	TP-16				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-17 | Lab Sample ID: 480-121501-5

Matrix: Solid | Lab File ID: V304385.D

Analysis Method: 8270D | Date Collected: 07/21/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.14(g) | Date Analyzed: 08/02/2017 00:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		210	30
108-60-1	bis (2-chloroisopropyl) ether	ND		210	41
95-95-4	2,4,5-Trichlorophenol	ND		210	56
88-06-2	2,4,6-Trichlorophenol	ND		210	41
120-83-2	2,4-Dichlorophenol	ND		210	22
105-67-9	2,4-Dimethylphenol	ND		210	50
51-28-5	2,4-Dinitrophenol	ND		2000	950
121-14-2	2,4-Dinitrotoluene	ND		210	42
606-20-2	2,6-Dinitrotoluene	ND		210	24
91-58-7	2-Chloronaphthalene	ND		210	34
95-57-8	2-Chlorophenol	ND		210	37
91-57-6	2-Methylnaphthalene	ND		210	41
95-48-7	2-Methylphenol	ND		210	24
88-74-4	2-Nitroaniline	ND		400	30
88-75-5	2-Nitrophenol	ND		210	58
91-94-1	3,3'-Dichlorobenzidine	ND		400	240
99-09-2	3-Nitroaniline	ND		400	57
534-52-1	4,6-Dinitro-2-methylphenol	ND		400	210
101-55-3	4-Bromophenyl phenyl ether	ND		210	29
59-50-7	4-Chloro-3-methylphenol	ND		210	51
106-47-8	4-Chloroaniline	ND		210	51
7005-72-3	4-Chlorophenyl phenyl ether	ND		210	25
106-44-5	4-Methylphenol	ND		400	24
100-01-6	4-Nitroaniline	ND		400	110
100-02-7	4-Nitrophenol	ND		400	140
83-32-9	Acenaphthene	ND		210	30
208-96-8	Acenaphthylene	ND		210	27
98-86-2	Acetophenone	ND		210	28
120-12-7	Anthracene	ND		210	51
1912-24-9	Atrazine	ND		210	71
100-52-7	Benzaldehyde	ND		210	160
56-55-3	Benzo(a)anthracene	ND		210	21
50-32-8	Benzo(a)pyrene	ND		210	30
205-99-2	Benzo(b)fluoranthene	ND		210	33

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-17 | Lab Sample ID: 480-121501-5

Matrix: Solid | Lab File ID: V304385.D

Analysis Method: 8270D | Date Collected: 07/21/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.14(g) | Date Analyzed: 08/02/2017 00:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		210	22
207-08-9	Benzo(k)fluoranthene	ND		210	27
111-91-1	Bis(2-chloroethoxy)methane	ND		210	44
111-44-4	Bis(2-chloroethyl)ether	ND		210	27
117-81-7	Bis(2-ethylhexyl) phthalate	ND		210	70
85-68-7	Butyl benzyl phthalate	ND		210	34
105-60-2	Caprolactam	ND		210	62
86-74-8	Carbazole	ND		210	24
218-01-9	Chrysene	ND		210	46
84-74-2	Di-n-butyl phthalate	ND		210	35
117-84-0	Di-n-octyl phthalate	ND		210	24
53-70-3	Dibenz(a,h)anthracene	ND		210	36
132-64-9	Dibenzofuran	ND		210	24
84-66-2	Diethyl phthalate	ND		210	27
131-11-3	Dimethyl phthalate	ND		210	24
206-44-0	Fluoranthene	ND		210	22
86-73-7	Fluorene	ND		210	24
118-74-1	Hexachlorobenzene	ND		210	28
87-68-3	Hexachlorobutadiene	ND		210	30
77-47-4	Hexachlorocyclopentadiene	ND		210	28
67-72-1	Hexachloroethane	ND		210	27
193-39-5	Indeno(1,2,3-cd)pyrene	ND		210	25
78-59-1	Isophorone	ND		210	44
621-64-7	N-Nitrosodi-n-propylamine	ND		210	35
86-30-6	N-Nitrosodiphenylamine	ND		210	170
91-20-3	Naphthalene	ND		210	27
98-95-3	Nitrobenzene	ND		210	23
87-86-5	Pentachlorophenol	ND		400	210
85-01-8	Phenanthrene	ND		210	30
108-95-2	Phenol	ND		210	31
129-00-0	Pyrene	ND		210	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-17 | Lab Sample ID: 480-121501-5

Matrix: Solid | Lab File ID: V304385.D

Analysis Method: 8270D | Date Collected: 07/21/2017 13:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.14(g) | Date Analyzed: 08/02/2017 00:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	95		54-120
321-60-8	2-Fluorobiphenyl	89		60-120
367-12-4	2-Fluorophenol	80		52-120
4165-60-0	Nitrobenzene-d5	84		53-120
1718-51-0	p-Terphenyl-d14	97		65-121
4165-62-2	Phenol-d5	82		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304385.D
Lims ID: 480-121501-A-5-B
Client ID: TP-17
Sample Type: Client
Inject. Date: 02-Aug-2017 00:32:30 ALS Bottle#: 26 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064505-016
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:23:38

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.524	5.524	0.000	97	87770	40.0	
*	2 Naphthalene-d8	136	7.084	7.084	0.000	100	305736	40.0	
*	3 Acenaphthene-d10	164	9.146	9.152	-0.006	97	149362	40.0	
*	4 Phenanthrene-d10	188	10.781	10.781	0.000	97	280668	40.0	
*	5 Chrysene-d12	240	13.169	13.175	-0.006	97	320902	40.0	
*	6 Perylene-d12	264	14.312	14.318	-0.006	99	320529	40.0	
$	7 2-Fluorophenol	112	3.762	3.751	0.011	95	88565	32.1	
$	8 Phenol-d5	99	5.097	5.102	-0.005	96	107706	32.7	
$	9 Nitrobenzene-d5	82	6.224	6.224	0.000	94	93979	33.5	
$	10 2-Fluorobiphenyl	172	8.377	8.383	-0.006	100	197320	35.7	
$	11 2,4,6-Tribromophenol	330	10.055	10.060	-0.005	93	31402	38.1	
$	12 p-Terphenyl-d14	244	12.282	12.282	0.000	99	254003	38.9	
	80 Benzaldehyde	77		4.953				ND	
	81 Phenol	94		5.118				ND	
	83 Bis(2-chloroethyl)ether	93		5.209				ND	
	84 2-Chlorophenol	128		5.257				ND	
	92 2-Methylphenol	108		5.888				ND	
	93 2,2'-oxybis[1-chloropropan	45		5.909				ND	
	94 Acetophenone	105		6.043				ND	
	95 N-Nitrosodi-n-propylamine	70		6.064				ND	
	96 4-Methylphenol	108		6.091				ND	
	99 Hexachloroethane	117		6.155				ND	
	102 Nitrobenzene	77		6.246				ND	
	106 Isophorone	82		6.545				ND	
	107 2-Nitrophenol	139		6.641				ND	
	108 2,4-Dimethylphenol	107		6.726				ND	
	111 Bis(2-chloroethoxy)methane	93		6.833				ND	
	114 2,4-Dichlorophenol	162		6.935				ND	
	118 Naphthalene	128		7.111				ND	
	119 4-Chloroaniline	127		7.197				ND	
	121 Hexachlorobutadiene	225		7.287				ND	
	124 Caprolactam	113		7.624				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107		7.806				ND	
131 2-Methylnaphthalene	142		7.939				ND	
134 Hexachlorocyclopentadiene	237		8.137				ND	
137 2,4,6-Trichlorophenol	196		8.286				ND	
138 2,4,5-Trichlorophenol	196		8.329				ND	
140 1,1'-Biphenyl	154		8.495				ND	
141 2-Chloronaphthalene	162		8.505				ND	
143 2-Nitroaniline	65		8.639				ND	
146 Dimethyl phthalate	163		8.874				ND	
149 2,6-Dinitrotoluene	165		8.933				ND	
150 Acenaphthylene	152		8.981				ND	
151 3-Nitroaniline	138		9.120				ND	
152 Acenaphthene	153		9.189				ND	
153 2,4-Dinitrophenol	184		9.248				ND	
154 4-Nitrophenol	109		9.355				ND	
155 Dibenzofuran	168		9.392				ND	
156 2,4-Dinitrotoluene	165		9.398				ND	
161 Diethyl phthalate	149		9.702				ND	
162 Fluorene	166		9.788				ND	
163 4-Chlorophenyl phenyl ethe	204		9.804				ND	
164 4-Nitroaniline	138		9.830				ND	
165 4,6-Dinitro-2-methylphenol	198		9.873				ND	
168 N-Nitrosodiphenylamine	169		9.942				ND	
175 4-Bromophenyl phenyl ether	248		10.338				ND	
179 Hexachlorobenzene	284		10.397				ND	
180 Atrazine	200		10.535				ND	
183 Pentachlorophenol	266		10.610				ND	
188 Phenanthrene	178		10.808				ND	
189 Anthracene	178		10.856				ND	
192 Carbazole	167		11.027				ND	
195 Di-n-butyl phthalate	149		11.390				ND	
201 Fluoranthene	202		11.935				ND	
204 Pyrene	202		12.133				ND	
210 Butyl benzyl phthalate	149		12.710				ND	
215 3,3'-Dichlorobenzidine	252		13.148				ND	
217 Benzo[a]anthracene	228		13.164				ND	
216 Bis(2-ethylhexyl) phthalat	149		13.191				ND	
218 Chrysene	228		13.196				ND	
220 Di-n-octyl phthalate	149		13.714				ND	
221 Benzo[b]fluoranthene	252		14.029				ND	
222 Benzo[k]fluoranthene	252		14.051				ND	
225 Benzo[a]pyrene	252		14.275				ND	
227 Indeno[1,2,3-cd]pyrene	276		15.189				ND	
228 Dibenz(a,h)anthracene	278		15.194				ND	
229 Benzo[g,h,i]perylene	276		15.434				ND	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

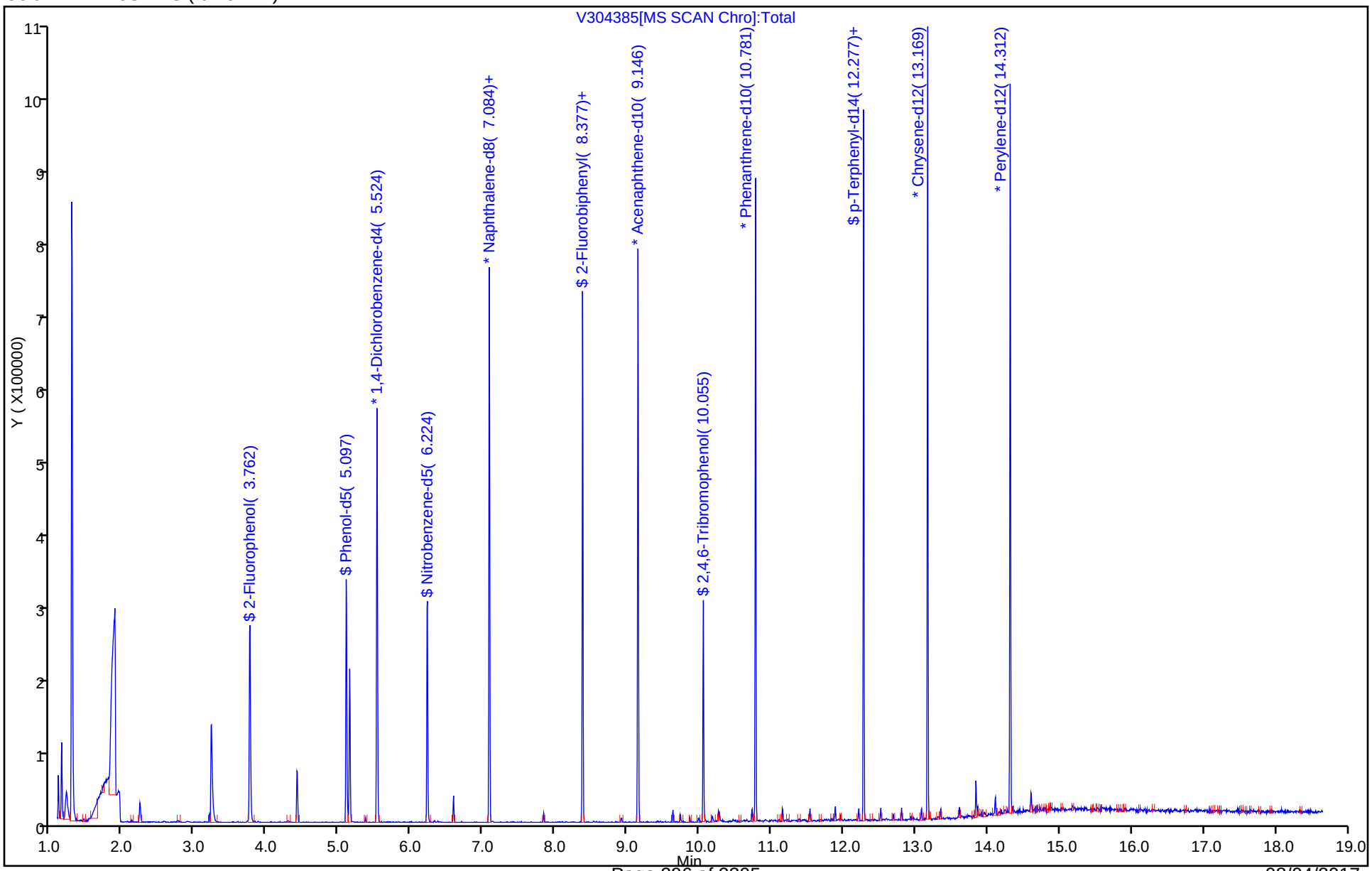
Report Date: 02-Aug-2017 15:46:38 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304385.D

Injection Date:	02-Aug-2017 00:32:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121501-A-5-B	Lab Sample ID:	480-121501-5	Worklist Smp#:	16
Client ID:	TP-17				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121501-6

Matrix: Solid | Lab File ID: V304386.D

Analysis Method: 8270D | Date Collected: 07/21/2017 00:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.34(g) | Date Analyzed: 08/02/2017 00:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		200	30
108-60-1	bis (2-chloroisopropyl) ether	ND		200	40
95-95-4	2,4,5-Trichlorophenol	ND		200	54
88-06-2	2,4,6-Trichlorophenol	ND		200	40
120-83-2	2,4-Dichlorophenol	ND		200	21
105-67-9	2,4-Dimethylphenol	ND		200	48
51-28-5	2,4-Dinitrophenol	ND		2000	930
121-14-2	2,4-Dinitrotoluene	ND		200	41
606-20-2	2,6-Dinitrotoluene	ND		200	24
91-58-7	2-Chloronaphthalene	ND		200	33
95-57-8	2-Chlorophenol	ND		200	37
91-57-6	2-Methylnaphthalene	ND		200	40
95-48-7	2-Methylphenol	ND		200	24
88-74-4	2-Nitroaniline	ND		390	30
88-75-5	2-Nitrophenol	ND		200	57
91-94-1	3,3'-Dichlorobenzidine	ND		390	240
99-09-2	3-Nitroaniline	ND		390	55
534-52-1	4,6-Dinitro-2-methylphenol	ND		390	200
101-55-3	4-Bromophenyl phenyl ether	ND		200	28
59-50-7	4-Chloro-3-methylphenol	ND		200	50
106-47-8	4-Chloroaniline	ND		200	50
7005-72-3	4-Chlorophenyl phenyl ether	ND		200	25
106-44-5	4-Methylphenol	ND		390	24
100-01-6	4-Nitroaniline	ND		390	110
100-02-7	4-Nitrophenol	ND		390	140
83-32-9	Acenaphthene	ND		200	30
208-96-8	Acenaphthylene	ND		200	26
98-86-2	Acetophenone	ND		200	27
120-12-7	Anthracene	ND		200	50
1912-24-9	Atrazine	ND		200	70
100-52-7	Benzaldehyde	ND		200	160
56-55-3	Benzo(a)anthracene	ND		200	20
50-32-8	Benzo(a)pyrene	ND		200	30
205-99-2	Benzo(b)fluoranthene	ND		200	32

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121501-6

Matrix: Solid | Lab File ID: V304386.D

Analysis Method: 8270D | Date Collected: 07/21/2017 00:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.34(g) | Date Analyzed: 08/02/2017 00:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		200	21
207-08-9	Benzo(k)fluoranthene	ND		200	26
111-91-1	Bis(2-chloroethoxy)methane	ND		200	42
111-44-4	Bis(2-chloroethyl)ether	ND		200	26
117-81-7	Bis(2-ethylhexyl) phthalate	ND		200	68
85-68-7	Butyl benzyl phthalate	ND		200	33
105-60-2	Caprolactam	ND		200	60
86-74-8	Carbazole	ND		200	24
218-01-9	Chrysene	ND		200	45
84-74-2	Di-n-butyl phthalate	ND		200	34
117-84-0	Di-n-octyl phthalate	ND		200	24
53-70-3	Dibenz(a,h)anthracene	ND		200	35
132-64-9	Dibenzofuran	ND		200	24
84-66-2	Diethyl phthalate	ND		200	26
131-11-3	Dimethyl phthalate	ND		200	24
206-44-0	Fluoranthene	ND		200	21
86-73-7	Fluorene	ND		200	24
118-74-1	Hexachlorobenzene	ND		200	27
87-68-3	Hexachlorobutadiene	ND		200	30
77-47-4	Hexachlorocyclopentadiene	ND		200	27
67-72-1	Hexachloroethane	ND		200	26
193-39-5	Indeno(1,2,3-cd)pyrene	ND		200	25
78-59-1	Isophorone	ND		200	42
621-64-7	N-Nitrosodi-n-propylamine	ND		200	34
86-30-6	N-Nitrosodiphenylamine	ND		200	160
91-20-3	Naphthalene	ND		200	26
98-95-3	Nitrobenzene	ND		200	22
87-86-5	Pentachlorophenol	ND		390	200
85-01-8	Phenanthrene	ND		200	30
108-95-2	Phenol	ND		200	31
129-00-0	Pyrene	ND		200	24

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121501-6

Matrix: Solid | Lab File ID: V304386.D

Analysis Method: 8270D | Date Collected: 07/21/2017 00:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.34(g) | Date Analyzed: 08/02/2017 00:58

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	98		54-120
321-60-8	2-Fluorobiphenyl	84		60-120
367-12-4	2-Fluorophenol	80		52-120
4165-60-0	Nitrobenzene-d5	82		53-120
1718-51-0	p-Terphenyl-d14	108		65-121
4165-62-2	Phenol-d5	85		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304386.D
Lims ID: 480-121501-A-6-B
Client ID: DUP
Sample Type: Client
Inject. Date: 02-Aug-2017 00:58:30 ALS Bottle#: 27 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064505-017
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:22:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.524	5.524	0.000	97	135719	40.0	
* 2 Naphthalene-d8	136	7.084	7.084	0.000	99	473024	40.0	
* 3 Acenaphthene-d10	164	9.146	9.152	-0.006	97	236292	40.0	
* 4 Phenanthrene-d10	188	10.781	10.781	0.000	97	416733	40.0	
* 5 Chrysene-d12	240	13.169	13.175	-0.006	97	419344	40.0	
* 6 Perylene-d12	264	14.312	14.318	-0.006	99	335927	40.0	
$ 7 2-Fluorophenol	112	3.761	3.751	0.010	95	137333	32.2	
$ 8 Phenol-d5	99	5.097	5.102	-0.005	96	173177	34.0	
$ 9 Nitrobenzene-d5	82	6.224	6.224	0.000	95	142760	32.9	
$ 10 2-Fluorobiphenyl	172	8.377	8.383	-0.006	100	295207	33.7	
$ 11 2,4,6-Tribromophenol	330	10.055	10.060	-0.005	94	47807	39.1	
$ 12 p-Terphenyl-d14	244	12.282	12.282	0.000	99	367978	43.1	
80 Benzaldehyde	77		4.953				ND	
81 Phenol	94		5.118				ND	
83 Bis(2-chloroethyl)ether	93		5.209				ND	
84 2-Chlorophenol	128		5.257				ND	
92 2-Methylphenol	108		5.888				ND	
93 2,2'-oxybis[1-chloropropan	45		5.909				ND	
94 Acetophenone	105		6.043				ND	
95 N-Nitrosodi-n-propylamine	70		6.064				ND	
96 4-Methylphenol	108	6.085	6.091	-0.006	88	2015	0.5175	
99 Hexachloroethane	117		6.155				ND	
102 Nitrobenzene	77		6.246				ND	
106 Isophorone	82		6.545				ND	
107 2-Nitrophenol	139		6.641				ND	
108 2,4-Dimethylphenol	107		6.726				ND	
111 Bis(2-chloroethoxy)methane	93		6.833				ND	
114 2,4-Dichlorophenol	162		6.935				ND	
118 Naphthalene	128		7.111				ND	
119 4-Chloroaniline	127		7.197				ND	
121 Hexachlorobutadiene	225		7.287				ND	
124 Caprolactam	113		7.624				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107		7.806				ND	
131 2-Methylnaphthalene	142		7.939				ND	
134 Hexachlorocyclopentadiene	237		8.137				ND	
137 2,4,6-Trichlorophenol	196		8.286				ND	
138 2,4,5-Trichlorophenol	196		8.329				ND	
140 1,1'-Biphenyl	154		8.495				ND	
141 2-Chloronaphthalene	162		8.505				ND	
143 2-Nitroaniline	65		8.639				ND	
146 Dimethyl phthalate	163		8.874				ND	
149 2,6-Dinitrotoluene	165		8.933				ND	
150 Acenaphthylene	152		8.981				ND	
151 3-Nitroaniline	138		9.120				ND	
152 Acenaphthene	153		9.189				ND	
153 2,4-Dinitrophenol	184		9.248				ND	
154 4-Nitrophenol	109		9.355				ND	
155 Dibenzofuran	168		9.392				ND	
156 2,4-Dinitrotoluene	165		9.398				ND	
161 Diethyl phthalate	149		9.702				ND	
162 Fluorene	166		9.788				ND	
163 4-Chlorophenyl phenyl ethe	204		9.804				ND	
164 4-Nitroaniline	138		9.830				ND	
165 4,6-Dinitro-2-methylphenol	198		9.873				ND	
168 N-Nitrosodiphenylamine	169		9.942				ND	
175 4-Bromophenyl phenyl ether	248		10.338				ND	
179 Hexachlorobenzene	284		10.397				ND	
180 Atrazine	200		10.535				ND	
183 Pentachlorophenol	266		10.610				ND	
188 Phenanthrene	178		10.808				ND	
189 Anthracene	178		10.856				ND	
192 Carbazole	167		11.027				ND	
195 Di-n-butyl phthalate	149		11.390				ND	
201 Fluoranthene	202		11.935				ND	
204 Pyrene	202		12.133				ND	
210 Butyl benzyl phthalate	149		12.710				ND	
215 3,3'-Dichlorobenzidine	252		13.148				ND	
217 Benzo[a]anthracene	228		13.164				ND	
216 Bis(2-ethylhexyl) phthalat	149		13.191				ND	
218 Chrysene	228		13.196				ND	
220 Di-n-octyl phthalate	149		13.714				ND	
221 Benzo[b]fluoranthene	252		14.029				ND	
222 Benzo[k]fluoranthene	252		14.051				ND	
225 Benzo[a]pyrene	252		14.275				ND	
227 Indeno[1,2,3-cd]pyrene	276		15.189				ND	
228 Dibenz(a,h)anthracene	278		15.194				ND	
229 Benzo[g,h,i]perylene	276		15.434				ND	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

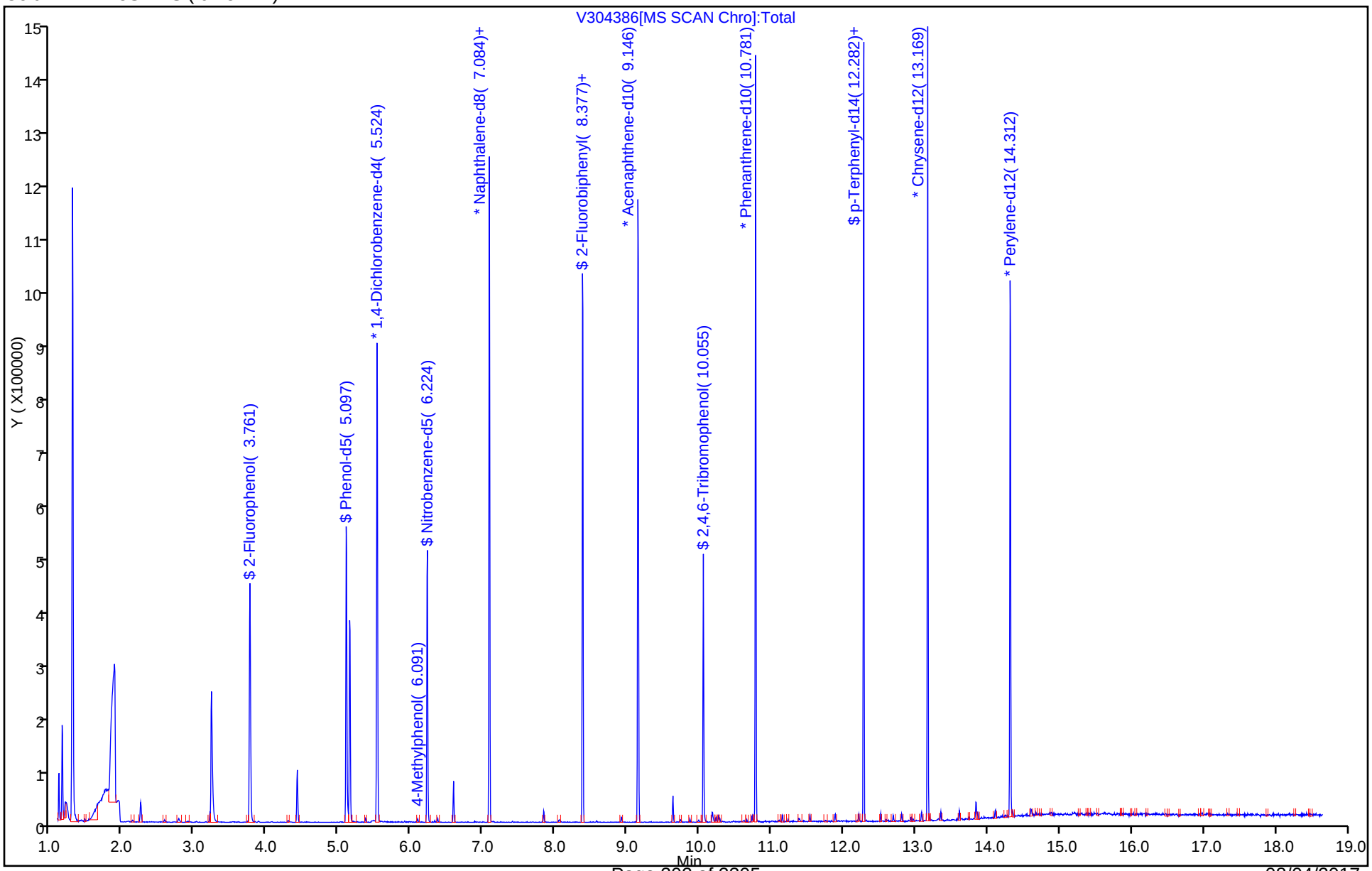
Report Date: 02-Aug-2017 15:46:40 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304386.D

Injection Date:	02-Aug-2017 00:58:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121501-A-6-B	Lab Sample ID:	480-121501-6	Worklist Smp#:	17
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 369864

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2017 14:54 Calibration End Date: 08/01/2017 17:04 Calibration ID: 31044

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-369864/4	V304363.D
Level 2	IC 480-369864/5	V304364.D
Level 3	ICIS 480-369864/6	V304365.D
Level 4	IC 480-369864/7	V304366.D
Level 5	IC 480-369864/8	V304367.D
Level 6	IC 480-369864/9	V304368.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.5702 0.5182	0.5801	0.6023	0.4863	0.5076	Ave		0.5441				8.5		20.0			
N-Nitrosodimethylamine	0.8864 0.7726	0.8519	0.8666	0.7215	0.7346	Ave		0.8056				8.9		20.0			
Pyridine	1.8175 1.6456	1.7763	1.8561	1.5448	1.5863	Ave		1.7044				7.6		20.0			
Benzaldehyde	1.1230 1.0136	1.1529	1.1680	0.9913	0.9951	Ave		1.0740			0.0100	7.7		20.0			
Aniline	2.2057 1.9138	2.1385	2.1199	1.8541	1.8275	Ave		2.0099				8.1		20.0			
Phenol	1.7461 1.6191	1.8026	1.8051	1.5296	1.5608	Ave		1.6772			0.8000	7.3		20.0			
Bis(2-chloroethyl)ether	1.3133 1.2061	1.3320	1.3537	1.1427	1.1380	Ave		1.2476			0.7000	7.8		20.0			
2-Chlorophenol	1.3883 1.2725	1.3934	1.4144	1.2263	1.2426	Ave		1.3229			0.8000	6.4		20.0			
n-Decane	2.5513 2.1760	2.4583	2.4854	2.0745	2.1249	Ave		2.3117			0.0100	9.0		20.0			
1,3-Dichlorobenzene	1.6396 1.4830	1.6079	1.6661	1.3717	1.4368	Ave		1.5342				7.8		20.0			
1,4-Dichlorobenzene	1.7543 1.4815	1.6434	1.6453	1.4230	1.4544	Ave		1.5670				8.5		20.0			
Benzyl alcohol	0.7619 0.7998	0.8541	0.8662	0.7700	0.7445	Ave		0.7994				6.3		20.0			
1,2-Dichlorobenzene	1.5237 1.3626	1.5393	1.5223	1.3109	1.3316	Ave		1.4317				7.5		20.0			
Indene	0.7110 0.5910	0.6728	0.6924	0.5752	0.5951	Ave		0.6396				9.2		20.0			
2-Methylphenol	1.2193 1.0753	1.1730	1.1907	1.0281	1.0282	Ave		1.1191			0.7000	7.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 369864

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2017 14:54 Calibration End Date: 08/01/2017 17:04 Calibration ID: 31044

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
bis (2-chloroisopropyl) ether	2.6009 2.1044	2.5343	2.4316	2.0426	2.0287	Ave		2.2904			0.0100	11.4		20.0			
Acetophenone	1.8385 1.6795	1.8329	1.8019	1.6006	1.5996	Ave		1.7255			0.0100	6.5		20.0			
N-Nitrosodi-n-propylamine	0.9750 0.9170	0.9878	0.9807	0.8548	0.8604	Ave		0.9293			0.5000	6.6		20.0			
4-Methylphenol	1.1450 1.1038	1.2311	1.2616	1.0680	1.0758	Ave		1.1475			0.6000	7.1		20.0			
Hexachloroethane	0.5518 0.5326	0.5812	0.5745	0.4986	0.5178	Ave		0.5427			0.3000	6.0		20.0			
Nitrobenzene	0.3542 0.3764	0.3786	0.4123	0.3521	0.3682	Ave		0.3736			0.2000	5.9		20.0			
Isophorone	0.6784 0.6614	0.6997	0.7482	0.6247	0.6363	Ave		0.6748			0.4000	6.7		20.0			
2-Nitrophenol	0.1272 0.1788	0.1622	0.1838	0.1630	0.1690	Ave		0.1640			0.1000	12.2		20.0			
2,4-Dimethylphenol	0.3595 0.3548	0.3805	0.3959	0.3334	0.3432	Ave		0.3612			0.2000	6.5		20.0			
Bis(2-chloroethoxy)methane	0.4272 0.3787	0.4064	0.4304	0.3585	0.3684	Ave		0.3949			0.3000	7.8		20.0			
2,4-Dichlorophenol	0.2932 0.3020	0.3278	0.3440	0.2908	0.2933	Ave		0.3085			0.2000	7.2		20.0			
Benzoic acid	0.0805 0.2373	0.1615	0.2146	0.2036	0.2133	Lin1	-2.585	0.2283							0.9950		0.9900
1,2,4-Trichlorobenzene	0.3416 0.3264	0.3587	0.3786	0.3113	0.3290	Ave		0.3409				7.1		20.0			
Naphthalene	1.1194 0.9555	1.0762	1.1030	0.9141	0.9376	Ave		1.0176			0.7000	9.0		20.0			
4-Chloroaniline	0.4573 0.3992	0.4414	0.4610	0.3838	0.3864	Ave		0.4215			0.0100	8.5		20.0			
2,6-Dichlorophenol	0.2996 0.2859	0.3185	0.3247	0.2752	0.2876	Ave		0.2985				6.5		20.0			
Hexachlorobutadiene	0.2432 0.2222	0.2327	0.2422	0.2037	0.2123	Ave		0.2261			0.0100	7.1		20.0			
Caprolactam	0.0853 0.1039	0.1033	0.1145	0.0953	0.0998	Ave		0.1004			0.0100	9.7		20.0			
4-Chloro-3-methylphenol	0.2730 0.2938	0.2994	0.3287	0.2811	0.2832	Ave		0.2932			0.2000	6.7		20.0			
2-Methylnaphthalene	0.7015 0.6222	0.6794	0.7163	0.5890	0.6111	Ave		0.6532			0.4000	8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 369864

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2017 14:54 Calibration End Date: 08/01/2017 17:04 Calibration ID: 31044

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6361 0.5709	0.6374	0.6605	0.5478	0.5526	Ave		0.6009			0.0100	8.2		20.0			
Hexachlorocyclopentadiene	0.3654 0.4862	0.4365	0.5031	0.4287	0.4675	Ave		0.4479			0.0500	11.0		20.0			
1,2,4,5-Tetrachlorobenzene	0.7115 0.6380	0.7085	0.7274	0.6009	0.6297	Ave		0.6693			0.0100	7.9		20.0			
2,4,6-Trichlorophenol	0.3949 0.4294	0.4215	0.4714	0.3917	0.4150	Ave		0.4207			0.2000	6.9		20.0			
2,4,5-Trichlorophenol	0.3664 0.4502	0.4231	0.4954	0.4039	0.4431	Ave		0.4303			0.2000	10.2		20.0			
Biphenyl	1.7718 1.5042	1.6821	1.7615	1.4275	1.4999	Ave		1.6078			0.0100	9.3		20.0			
2-Chloronaphthalene	1.3526 1.2160	1.3611	1.4060	1.1418	1.2005	Ave		1.2797			0.8000	8.4		20.0			
2-Nitroaniline	0.3457 0.4458	0.4010	0.4672	0.4021	0.4220	Ave		0.4140			0.0100	10.2		20.0			
Dimethyl phthalate	1.5795 1.4581	1.5779	1.6192	1.3444	1.4021	Ave		1.4969			0.0100	7.4		20.0			
1,3-Dinitrobenzene	0.0742 0.1244	0.1066	0.1212	0.1083	0.1161	Lin1	-0.241	0.1205							0.9970		0.9900
2,6-Dinitrotoluene	0.2650 0.3392	0.3110	0.3531	0.3086	0.3340	Ave		0.3185				9.8		20.0			
Acenaphthylene	1.9558 1.7816	1.9836	2.0362	1.6599	1.7467	Ave		1.8606			0.9000	8.1		20.0			
3-Nitroaniline	0.2740 0.3396	0.3248	0.3718	0.3114	0.3270	Ave		0.3248			0.0100	9.9		20.0			
Acenaphthene	1.2670 1.1906	1.3206	1.3413	1.1030	1.1646	Ave		1.2312			0.9000	7.6		20.0			
2,4-Dinitrophenol	0.0760 0.2028	0.1417	0.1866	0.1723	0.1885	Lin1	-1.409	0.1966			0.0100				0.9950		0.9900
4-Nitrophenol	0.1279 0.2371	0.1975	0.2354	0.2080	0.2261	Lin1	-1.103	0.2330			0.0100				0.9970		0.9900
Dibenzofuran	1.9176 1.7082	1.9044	1.9606	1.5939	1.6757	Ave		1.7934			0.8000	8.5		20.0			
2,4-Dinitrotoluene	0.3498 0.4472	0.4187	0.4710	0.4052	0.4336	Ave		0.4209			0.2000	9.9		20.0			
2,3,4,6-Tetrachlorophenol	0.2643 0.3786	0.3324	0.3979	0.3382	0.3647	Ave		0.3460			0.0100	13.6		20.0			
Diethyl phthalate	1.5215 1.4919	1.5571	1.6378	1.3636	1.4562	Ave		1.5047			0.0100	6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 369864

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2017 14:54 Calibration End Date: 08/01/2017 17:04 Calibration ID: 31044

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexadecane	1.3300 1.2230	1.3947	1.4243	1.1592	1.2121	Ave		1.2905			0.0100	8.4		20.0			
Fluorene	1.5199 1.3579	1.5263	1.5548	1.2832	1.3370	Ave		1.4299			0.9000	8.2		20.0			
4-Chlorophenyl phenyl ether	0.8038 0.6819	0.7486	0.7622	0.6316	0.6685	Ave		0.7161			0.4000	9.1		20.0			
4-Nitroaniline	0.2554 0.3356	0.3327	0.3692	0.3056	0.3319	Ave		0.3217			0.0100	11.9		20.0			
4,6-Dinitro-2-methylphenol	0.0741 0.1377	0.1146	0.1403	0.1227	0.1306	Lin1	-0.637	0.1360			0.0100				0.9970		0.9900
Diphenylamine	0.6648 0.6195	0.6843	0.7139	0.5846	0.6010	Ave		0.6447				7.9		20.0			
N-Nitrosodiphenylamine	0.5684 0.5297	0.5851	0.6103	0.4998	0.5138	Ave		0.5512			0.0100	7.9		20.0			
1,2-Diphenylhydrazine	1.4802 1.4109	1.5242	1.5956	1.3175	1.3707	Ave		1.4499				7.1		20.0			
trans-Azobenzene	0.7919 0.7499	0.8198	0.8627	0.7092	0.7245	Ave		0.7763				7.6		20.0			
4-Bromophenyl phenyl ether	0.2415 0.2301	0.2456	0.2539	0.2114	0.2220	Ave		0.2341			0.1000	6.8		20.0			
Hexachlorobenzene	0.2773 0.2520	0.2664	0.2834	0.2342	0.2449	Ave		0.2597			0.1000	7.4		20.0			
Atrazine	0.4250 0.3961	0.4342	0.4542	0.3674	0.3774	Ave		0.4090			0.0100	8.3		20.0			
Pentachlorophenol	0.0690 0.1454	0.1169	0.1491	0.1304	0.1394	Lin1	-0.793	0.1449			0.0500				0.9970		0.9900
n-Octadecane	0.7219 0.6431	0.7411	0.7712	0.6197	0.6395	Ave		0.6894			0.0100	9.2		20.0			
Phenanthrene	1.2242 1.0649	1.1807	1.2511	1.0059	1.0322	Ave		1.1265			0.7000	9.3		20.0			
Anthracene	1.2350 1.1195	1.2635	1.3121	1.0429	1.1009	Ave		1.1790			0.7000	9.0		20.0			
Carbazole	1.0864 0.9636	1.0694	1.1196	0.9024	0.9511	Ave		1.0154			0.0100	8.6		20.0			
Di-n-butyl phthalate	1.3100 1.2694	1.3665	1.4711	1.1827	1.2304	Ave		1.3050			0.0100	7.9		20.0			
Fluoranthene	1.2828 1.1799	1.2945	1.4011	1.1032	1.1704	Ave		1.2386			0.6000	8.7		20.0			
Benzidine	0.6721 0.6728	0.7599	0.7821	0.6526	0.6355	Ave		0.6958				8.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 369864

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2017 14:54 Calibration End Date: 08/01/2017 17:04 Calibration ID: 31044

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Pyrene	1.1599 1.1299	1.2045	1.1817	1.0786	1.0596	Ave		1.1357			0.6000	5.1		20.0			
Butyl benzyl phthalate	0.4848 0.5318	0.5319	0.5581	0.4890	0.5030	Ave		0.5164			0.0100	5.6		20.0			
3,3'-Dichlorobenzidine	0.3920 0.4055	0.4229	0.4544	0.3729	0.4007	Ave		0.4081			0.0100	6.9		20.0			
Benzo(a)anthracene	1.1970 1.0922	1.2039	1.2405	1.0474	1.0792	Ave		1.1434			0.8000	7.0		20.0			
Bis(2-ethylhexyl) phthalate	0.6805 0.7196	0.7714	0.8042	0.6800	0.7042	Ave		0.7267			0.0100	7.0		20.0			
Chrysene	1.1934 0.9806	1.1630	1.1270	0.9277	0.9627	Ave		1.0591			0.7000	10.9		20.0			
Di-n-octyl phthalate	1.1293 1.2074	1.3100	1.4004	1.1500	1.2190	Ave		1.2360			0.0100	8.3		20.0			
Benzo(b)fluoranthene	1.1098 1.1697	1.1896	1.2835	1.0150	1.0814	Ave		1.1415			0.7000	8.2		20.0			
Benzo(k)fluoranthene	1.3370 1.0492	1.2336	1.2342	1.1497	1.0933	Ave		1.1828			0.7000	8.9		20.0			
Benzo(a)pyrene	1.1079 1.0321	1.1240	1.1473	0.9699	0.9980	Ave		1.0632			0.7000	6.9		20.0			
Indeno(1,2,3-cd)pyrene	1.2528 1.2268	1.2345	1.2856	1.1132	1.0971	Ave		1.2017			0.5000	6.5		20.0			
Dibenz(a,h)anthracene	1.0561 1.0230	1.0480	1.0899	0.9277	0.9227	Ave		1.0112				6.9		20.0			
Benzo(g,h,i)perylene	1.0655 1.0646	1.0099	1.0719	0.9425	0.9271	Ave		1.0136			0.5000	6.4		20.0			
2-Fluorophenol	1.1836 1.2572	1.3155	1.3934	1.1796	1.2137	Ave		1.2572				6.7		20.0			
Phenol-d5	1.5415 1.4514	1.5671	1.6494	1.3819	1.4144	Ave		1.5009				6.8		20.0			
Nitrobenzene-d5	0.3456 0.3767	0.3621	0.4069	0.3455	0.3645	Ave		0.3669				6.3		20.0			
2-Fluorobiphenyl	1.5774 1.4173	1.5752	1.6106	1.3108	1.3956	Ave		1.4811				8.3		20.0			
2,4,6-Tribromophenol	0.0990 0.1262	0.1127	0.1324	0.1141	0.1204	Ave		0.1175				9.9		20.0			
p-Terphenyl-d14	0.8178 0.8141	0.8719	0.8625	0.7539	0.7631	Ave		0.8139				6.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 369864

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2017 14:54 Calibration End Date: 08/01/2017 17:04 Calibration ID: 31044

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-369864/4	V304363.D
Level 2	IC 480-369864/5	V304364.D
Level 3	ICIS 480-369864/6	V304365.D
Level 4	IC 480-369864/7	V304366.D
Level 5	IC 480-369864/8	V304367.D
Level 6	IC 480-369864/9	V304368.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	7858 170054	32454	80480	119212	142106	5.00 120	20.0	50.0	80.0	100
N-Nitrosodimethylamine	DCBd 4	Ave	12215 253528	47658	115795	176875	205648	5.00 120	20.0	50.0	80.0	100
Pyridine	DCBd 4	Ave	25047 540025	99371	248006	378690	444076	5.00 120	20.0	50.0	80.0	100
Benzaldehyde	DCBd 4	Ave	15476 332649	64497	156068	243010	278590	5.00 120	20.0	50.0	80.0	100
Aniline	DCBd 4	Ave	30397 628041	119629	283261	454516	511599	5.00 120	20.0	50.0	80.0	100
Phenol	DCBd 4	Ave	24063 531343	100838	241197	374949	436959	5.00 120	20.0	50.0	80.0	100
Bis(2-chloroethyl)ether	DCBd 4	Ave	18099 395791	74514	180888	280111	318577	5.00 120	20.0	50.0	80.0	100
2-Chlorophenol	DCBd 4	Ave	19132 417588	77947	188997	300600	347852	5.00 120	20.0	50.0	80.0	100
n-Decane	DCBd 4	Ave	35160 714109	137522	332102	508534	594869	5.00 120	20.0	50.0	80.0	100
1,3-Dichlorobenzene	DCBd 4	Ave	22596 486686	89950	222626	336245	402226	5.00 120	20.0	50.0	80.0	100
1,4-Dichlorobenzene	DCBd 4	Ave	24176 486190	91934	219848	348831	407162	5.00 120	20.0	50.0	80.0	100
Benzyl alcohol	DCBd 4	Ave	10500 262466	47777	115745	188753	208420	5.00 120	20.0	50.0	80.0	100
1,2-Dichlorobenzene	DCBd 4	Ave	20998 447179	86108	203409	321352	372776	5.00 120	20.0	50.0	80.0	100
Indene	NPT	Ave	104151 2048748	399520	935500	1476361	1703139	15.0 360	60.0	150	240	300
2-Methylphenol	DCBd 4	Ave	16803 352867	65622	159104	252024	287858	5.00 120	20.0	50.0	80.0	100
bis (2-chloroisopropyl) ether	DCBd 4	Ave	35843 690586	141774	324913	500719	567937	5.00 120	20.0	50.0	80.0	100

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 369864

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2017 14:54 Calibration End Date: 08/01/2017 17:04 Calibration ID: 31044

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetophenone	DCBd 4	Ave	25337 551159	102534	240768	392359	447807	5.00 120	20.0	50.0	80.0	100
N-Nitrosodi-n-propylamine	DCBd 4	Ave	13436 300945	55261	131035	209536	240868	5.00 120	20.0	50.0	80.0	100
4-Methylphenol	DCBd 4	Ave	15780 362220	68870	168576	261803	301168	5.00 120	20.0	50.0	80.0	100
Hexachloroethane	DCBd 4	Ave	7605 174778	32512	76761	122230	144949	5.00 120	20.0	50.0	80.0	100
Nitrobenzene	NPT	Ave	17294 434995	74930	185670	301266	351236	5.00 120	20.0	50.0	80.0	100
Isophorone	NPT	Ave	33127 764346	138498	336937	534474	607083	5.00 120	20.0	50.0	80.0	100
2-Nitrophenol	NPT	Ave	6210 206654	32096	82772	139459	161239	5.00 120	20.0	50.0	80.0	100
2,4-Dimethylphenol	NPT	Ave	17554 409994	75302	178306	285284	327397	5.00 120	20.0	50.0	80.0	100
Bis(2-chloroethoxy)methane	NPT	Ave	20859 437606	80437	193804	306780	351451	5.00 120	20.0	50.0	80.0	100
2,4-Dichlorophenol	NPT	Ave	14317 348963	64885	154914	248846	279812	5.00 120	20.0	50.0	80.0	100
Benzoic acid	NPT	Lin1	11787 822557	95893	289922	522623	610585	15.0 360	60.0	150	240	300
1,2,4-Trichlorobenzene	NPT	Ave	16681 377166	70993	170492	266367	313852	5.00 120	20.0	50.0	80.0	100
Naphthalene	NPT	Ave	54662 1104231	213004	496721	782146	894479	5.00 120	20.0	50.0	80.0	100
4-Chloroaniline	NPT	Ave	22331 461333	87366	207593	328383	368635	5.00 120	20.0	50.0	80.0	100
2,6-Dichlorophenol	NPT	Ave	14629 330344	63030	146203	235434	274351	5.00 120	20.0	50.0	80.0	100
Hexachlorobutadiene	NPT	Ave	11877 256834	46055	109072	174276	202573	5.00 120	20.0	50.0	80.0	100
Caprolactam	NPT	Ave	4167 120084	20451	51573	81542	95180	5.00 120	20.0	50.0	80.0	100
4-Chloro-3-methylphenol	NPT	Ave	13329 339489	59252	148009	240492	270201	5.00 120	20.0	50.0	80.0	100
2-Methylnaphthalene	NPT	Ave	34255 719037	134464	322593	503928	582976	5.00 120	20.0	50.0	80.0	100
1-Methylnaphthalene	NPT	Ave	31059 659690	126156	297452	468717	527239	5.00 120	20.0	50.0	80.0	100
Hexachlorocyclopentadiene	ANT	Ave	9093 288636	44006	115475	191152	224574	5.00 120	20.0	50.0	80.0	100

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 369864

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2017 14:54 Calibration End Date: 08/01/2017 17:04 Calibration ID: 31044

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	17706 378782	71438	166953	267935	302515	5.00 120	20.0	50.0	80.0	100
2,4,6-Trichlorophenol	ANT	Ave	9828 254938	42502	108191	174657	199361	5.00 120	20.0	50.0	80.0	100
2,4,5-Trichlorophenol	ANT	Ave	9118 267290	42663	113694	180083	212855	5.00 120	20.0	50.0	80.0	100
Biphenyl	ANT	Ave	44091 893024	169595	404314	636536	720518	5.00 120	20.0	50.0	80.0	100
2-Chloronaphthalene	ANT	Ave	33659 721902	137238	322715	509142	576704	5.00 120	20.0	50.0	80.0	100
2-Nitroaniline	ANT	Ave	8602 264646	40433	107242	179312	202702	5.00 120	20.0	50.0	80.0	100
Dimethyl phthalate	ANT	Ave	39307 865633	159092	371637	599472	673555	5.00 120	20.0	50.0	80.0	100
1,3-Dinitrobenzene	NPT	Lin1	3624 143730	21105	54584	92652	110733	5.00 120	20.0	50.0	80.0	100
2,6-Dinitrotoluene	ANT	Ave	6595 201372	31356	81034	137593	160453	5.00 120	20.0	50.0	80.0	100
Acenaphthylene	ANT	Ave	48671 1057695	200001	467356	740160	839105	5.00 120	20.0	50.0	80.0	100
3-Nitroaniline	ANT	Ave	6819 201630	32745	85342	138871	157095	5.00 120	20.0	50.0	80.0	100
Acenaphthene	ANT	Ave	31529 706799	133152	307862	491834	559439	5.00 120	20.0	50.0	80.0	100
2,4-Dinitrophenol	ANT	Lin1	3783 240736	28570	85646	153661	181137	10.0 240	40.0	100	160	200
4-Nitrophenol	ANT	Lin1	6366 281577	39831	108082	185542	217208	10.0 240	40.0	100	160	200
Dibenzofuran	ANT	Ave	47719 1014135	192017	449996	710717	804990	5.00 120	20.0	50.0	80.0	100
2,4-Dinitrotoluene	ANT	Ave	8704 265467	42219	108102	180685	208307	5.00 120	20.0	50.0	80.0	100
2,3,4,6-Tetrachlorophenol	ANT	Ave	6576 224763	33512	91321	150815	175192	5.00 120	20.0	50.0	80.0	100
Diethyl phthalate	ANT	Ave	37863 885719	156997	375902	608051	699558	5.00 120	20.0	50.0	80.0	100
Hexadecane	ANT	Ave	33097 726039	140621	326913	516892	582271	5.00 120	20.0	50.0	80.0	100
Fluorene	ANT	Ave	37824 806157	153892	356870	572209	642270	5.00 120	20.0	50.0	80.0	100
4-Chlorophenyl phenyl ether	ANT	Ave	20002 404799	75481	174935	281639	321127	5.00 120	20.0	50.0	80.0	100

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 369864

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2017 14:54 Calibration End Date: 08/01/2017 17:04 Calibration ID: 31044

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Nitroaniline	ANT	Ave	6356 199221	33546	84749	136275	159438	5.00 120	20.0	50.0	80.0	100
4,6-Dinitro-2-methylphenol	PHN	Lin1	6896 307640	42977	119130	203313	237436	10.0 240	40.0	100	160	200
Diphenylamine	PHN	Ave	26442 591617	109678	259106	414048	467043	4.28 103	17.1	42.8	68.4	85.5
N-Nitrosodiphenylamine	PHN	Ave	26442 591617	109678	259106	414048	467043	5.00 120	20.0	50.0	80.0	100
1,2-Diphenylhydrazine	ANT	Ave	36835 837620	153680	366232	587494	658479	5.00 120	20.0	50.0	80.0	100
trans-Azobenzene	PHN	Ave	36835 837620	153680	366232	587494	658479	5.00 120	20.0	50.0	80.0	100
4-Bromophenyl phenyl ether	PHN	Ave	11236 256995	46049	107790	175085	201812	5.00 120	20.0	50.0	80.0	100
Hexachlorobenzene	PHN	Ave	12898 281498	49930	120306	194021	222637	5.00 120	20.0	50.0	80.0	100
Atrazine	ANT	Ave	10576 235135	43779	104253	163842	181291	5.00 120	20.0	50.0	80.0	100
Pentachlorophenol	PHN	Lin1	6415 324794	43822	126629	216101	253403	10.0 240	40.0	100	160	200
n-Octadecane	PHN	Ave	33579 718326	138921	327383	513350	581284	5.00 120	20.0	50.0	80.0	100
Phenanthrene	PHN	Ave	56947 1189461	221327	531104	833254	938166	5.00 120	20.0	50.0	80.0	100
Anthracene	PHN	Ave	57448 1250421	236850	557012	863902	1000613	5.00 120	20.0	50.0	80.0	100
Carbazole	PHN	Ave	50536 1076340	200474	475277	747527	864458	5.00 120	20.0	50.0	80.0	100
Di-n-butyl phthalate	PHN	Ave	60937 1417900	256158	624524	979749	1118332	5.00 120	20.0	50.0	80.0	100
Fluoranthene	PHN	Ave	59672 1317925	242665	594809	913849	1063814	5.00 120	20.0	50.0	80.0	100
Benzidine	CRY	Ave	37607 800519	163004	400383	578373	660849	5.00 120	20.0	50.0	80.0	100
Pyrene	CRY	Ave	64905 1344284	258380	604978	955856	1101819	5.00 120	20.0	50.0	80.0	100
Butyl benzyl phthalate	CRY	Ave	27129 632686	114092	285723	433338	523013	5.00 120	20.0	50.0	80.0	100
3,3'-Dichlorobenzidine	CRY	Ave	21934 482428	90722	232629	330464	416699	5.00 120	20.0	50.0	80.0	100
Benzo(a)anthracene	CRY	Ave	66981 1299416	258246	635097	928218	1122233	5.00 120	20.0	50.0	80.0	100

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 369864

SDG No.:

Instrument ID: HP5973V GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2017 14:54 Calibration End Date: 08/01/2017 17:04 Calibration ID: 31044

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bis(2-ethylhexyl) phthalate	CRY	Ave	38078 856161	165466	411723	602661	732288	5.00 120	20.0	50.0	80.0	100
Chrysene	CRY	Ave	66780 1166729	249470	576968	822195	1001102	5.00 120	20.0	50.0	80.0	100
Di-n-octyl phthalate	CRY	Ave	63190 1436550	281007	716954	1019215	1267596	5.00 120	20.0	50.0	80.0	100
Benzo(b)fluoranthene	PRY	Ave	63272 1311347	253093	660150	802818	1092836	5.00 120	20.0	50.0	80.0	100
Benzo(k)fluoranthene	PRY	Ave	76225 1176247	262449	634757	909341	1104782	5.00 120	20.0	50.0	80.0	100
Benzo(a)pyrene	PRY	Ave	63163 1157057	239123	590080	767118	1008503	5.00 120	20.0	50.0	80.0	100
Indeno(1,2,3-cd)pyrene	PRY	Ave	71424 1375355	262638	661232	880433	1108658	5.00 120	20.0	50.0	80.0	100
Dibenz(a,h)anthracene	PRY	Ave	60210 1146845	222969	560538	733787	932386	5.00 120	20.0	50.0	80.0	100
Benzo(g,h,i)perylene	PRY	Ave	60743 1193524	214851	551287	745487	936831	5.00 120	20.0	50.0	80.0	100
2-Fluorophenol	DCBd 4	Ave	16312 412576	73592	186192	289157	339783	5.00 120	20.0	50.0	80.0	100
Phenol-d5	DCBd 4	Ave	21243 476310	87664	220388	338746	395950	5.00 120	20.0	50.0	80.0	100
Nitrobenzene-d5	NPT	Ave	16875 435307	71669	183241	295580	347754	5.00 120	20.0	50.0	80.0	100
2-Fluorobiphenyl	ANT	Ave	39253 841417	158818	369659	584507	670427	5.00 120	20.0	50.0	80.0	100
2,4,6-Tribromophenol	PHN	Ave	4605 140959	21127	56198	94493	109433	5.00 120	20.0	50.0	80.0	100
p-Terphenyl-d14	CRY	Ave	45759 968563	187031	441533	668142	793541	5.00 120	20.0	50.0	80.0	100

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304363.D
Lims ID: IC L1 5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Aug-2017 14:54:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064504-004
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 14:50:59 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 01-Aug-2017 16:34:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.525	5.530	-0.006	96	110249	40.0	40.0	
* 2 Naphthalene-d8	136	7.084	7.090	-0.006	99	390642	40.0	40.0	
* 3 Acenaphthene-d10	164	9.147	9.152	-0.005	97	199083	40.0	40.0	
* 4 Phenanthrene-d10	188	10.776	10.781	-0.005	97	372140	40.0	40.0	
* 5 Chrysene-d12	240	13.164	13.175	-0.011	97	447650	40.0	40.0	
* 6 Perylene-d12	264	14.312	14.318	-0.006	99	456080	40.0	40.0	
$ 7 2-Fluorophenol	112	3.762	3.762	0.000	95	16312	5.00	4.71	
$ 8 Phenol-d5	99	5.097	5.102	-0.005	96	21243	5.00	5.14	
$ 9 Nitrobenzene-d5	82	6.224	6.224	0.000	94	16875	5.00	4.71	
$ 10 2-Fluorobiphenyl	172	8.377	8.383	-0.006	99	39253	5.00	5.32	
$ 11 2,4,6-Tribromophenol	330	10.055	10.060	-0.005	92	4605	5.00	4.21	
$ 12 p-Terphenyl-d14	244	12.277	12.282	-0.005	99	45759	5.00	5.02	
68 1,4-Dioxane	88	1.507	1.512	-0.005	84	7858	5.00	5.24	
69 N-Nitrosodimethylamine	42	1.790	1.790	0.000	84	12215	5.00	5.50	
70 Pyridine	52	1.838	1.833	0.005	77	25047	5.00	5.33	M
80 Benzaldehyde	77	4.958	4.958	0.000	92	15476	5.00	5.23	
82 Aniline	93	5.108	5.113	-0.005	92	30397	5.00	5.49	
81 Phenol	94	5.113	5.118	-0.005	78	24063	5.00	5.21	
83 Bis(2-chloroethyl)ether	93	5.209	5.209	0.000	91	18099	5.00	5.26	
84 2-Chlorophenol	128	5.263	5.263	0.000	96	19132	5.00	5.25	
263 n-Decane	57	5.364	5.370	-0.006	90	35160	5.00	5.52	
87 1,3-Dichlorobenzene	146	5.455	5.455	0.000	97	22596	5.00	5.34	
88 1,4-Dichlorobenzene	146	5.546	5.551	-0.005	97	24176	5.00	5.60	
90 Benzyl alcohol	108	5.722	5.728	-0.006	92	10500	5.00	4.77	M
91 1,2-Dichlorobenzene	146	5.744	5.744	0.000	95	20998	5.00	5.32	
248 Indene	115	5.850	5.856	-0.006	97	104151	15.0	16.7	
92 2-Methylphenol	108	5.888	5.888	0.000	95	16803	5.00	5.45	
93 2,2'-oxybis[1-chloropropan	45	5.909	5.909	0.000	93	35843	5.00	5.68	
94 Acetophenone	105	6.043	6.048	-0.005	93	25337	5.00	5.33	
95 N-Nitrosodi-n-propylamine	70	6.059	6.064	-0.005	92	13436	5.00	5.25	
96 4-Methylphenol	108	6.085	6.091	-0.006	93	15780	5.00	4.99	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.155	6.155	0.000	95	7605	5.00	5.08	
102 Nitrobenzene	77	6.246	6.251	-0.005	94	17294	5.00	4.74	
106 Isophorone	82	6.545	6.545	0.000	97	33127	5.00	5.03	
107 2-Nitrophenol	139	6.641	6.641	0.000	94	6210	5.00	3.88	
108 2,4-Dimethylphenol	107	6.727	6.727	0.000	95	17554	5.00	4.98	
111 Bis(2-chloroethoxy)methane	93	6.828	6.833	-0.005	93	20859	5.00	5.41	
114 2,4-Dichlorophenol	162	6.935	6.940	-0.005	96	14317	5.00	4.75	
115 Benzoic acid	105	6.849	6.951	-0.102	0	11787	15.0	16.6	M
117 1,2,4-Trichlorobenzene	180	7.026	7.031	-0.005	91	16681	5.00	5.01	
118 Naphthalene	128	7.106	7.111	-0.005	97	54662	5.00	5.50	
119 4-Chloroaniline	127	7.197	7.197	0.000	95	22331	5.00	5.42	
122 2,6-Dichlorophenol	162	7.202	7.207	-0.005	89	14629	5.00	5.02	
121 Hexachlorobutadiene	225	7.282	7.287	-0.005	92	11877	5.00	5.38	
124 Caprolactam	113	7.565	7.619	-0.054	71	4167	5.00	4.25	
129 4-Chloro-3-methylphenol	107	7.800	7.806	-0.006	95	13329	5.00	4.66	
131 2-Methylnaphthalene	142	7.934	7.939	-0.005	92	34255	5.00	5.37	
251 1-Methylnaphthalene	142	8.046	8.051	-0.005	98	31059	5.00	5.29	
134 Hexachlorocyclopentadiene	237	8.137	8.137	0.000	94	9093	5.00	4.08	
135 1,2,4,5-Tetrachlorobenzene	216	8.137	8.142	-0.005	97	17706	5.00	5.31	
137 2,4,6-Trichlorophenol	196	8.281	8.286	-0.005	92	9828	5.00	4.69	
138 2,4,5-Trichlorophenol	196	8.324	8.329	-0.005	92	9118	5.00	4.26	
140 1,1'-Biphenyl	154	8.489	8.495	-0.006	95	44091	5.00	5.51	
141 2-Chloronaphthalene	162	8.500	8.505	-0.005	97	33659	5.00	5.28	
143 2-Nitroaniline	65	8.634	8.639	-0.005	79	8602	5.00	4.18	
146 Dimethyl phthalate	163	8.863	8.874	-0.011	98	39307	5.00	5.28	
148 1,3-Dinitrobenzene	168	8.885	8.895	-0.010	85	3624	5.00	5.08	
149 2,6-Dinitrotoluene	165	8.922	8.933	-0.011	90	6595	5.00	4.16	
150 Acenaphthylene	152	8.976	8.981	-0.005	98	48671	5.00	5.26	
151 3-Nitroaniline	138	9.114	9.120	-0.006	88	6819	5.00	4.22	
152 Acenaphthene	153	9.184	9.189	-0.005	92	31529	5.00	5.15	
153 2,4-Dinitrophenol	184	9.243	9.248	-0.005	84	3783	10.0	11.0	
154 4-Nitrophenol	109	9.344	9.355	-0.011	93	6366	10.0	10.2	
155 Dibenzofuran	168	9.387	9.392	-0.005	96	47719	5.00	5.35	
156 2,4-Dinitrotoluene	165	9.392	9.398	-0.006	47	8704	5.00	4.15	
158 2,3,4,6-Tetrachlorophenol	232	9.547	9.553	-0.006	71	6576	5.00	3.82	
161 Diethyl phthalate	149	9.691	9.702	-0.011	98	37863	5.00	5.06	
256 Hexadecane	57	9.734	9.740	-0.006	69	33097	5.00	5.15	
162 Fluorene	166	9.782	9.788	-0.006	93	37824	5.00	5.31	
163 4-Chlorophenyl phenyl ethe	204	9.798	9.804	-0.006	92	20002	5.00	5.61	
164 4-Nitroaniline	138	9.814	9.830	-0.016	77	6356	5.00	3.97	
165 4,6-Dinitro-2-methylphenol	198	9.862	9.873	-0.011	79	6896	10.0	10.1	
169 Diphenylamine	169	9.932	9.943	-0.011	93	26442	4.28	4.41	
168 N-Nitrosodiphenylamine	169	9.932	9.943	-0.011	65	26442	5.00	5.16	
170 1,2-Diphenylhydrazine	77	9.975	9.980	-0.005	96	36835	5.00	5.10	
171 Azobenzene	77	9.975	9.980	-0.005	98	36835	5.00	5.10	
175 4-Bromophenyl phenyl ether	248	10.333	10.338	-0.005	67	11236	5.00	5.16	
179 Hexachlorobenzene	284	10.391	10.402	-0.011	94	12898	5.00	5.34	
180 Atrazine	200	10.525	10.536	-0.011	90	10576	5.00	5.19	
183 Pentachlorophenol	266	10.605	10.610	-0.005	89	6415	10.0	10.2	
265 n-Octadecane	57	10.728	10.733	-0.005	84	33579	5.00	5.24	
188 Phenanthrene	178	10.803	10.808	-0.005	97	56947	5.00	5.43	
189 Anthracene	178	10.851	10.856	-0.005	97	57448	5.00	5.24	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.022	11.027	-0.005	96	50536	5.00	5.35	
195 Di-n-butyl phthalate	149	11.385	11.390	-0.005	100	60937	5.00	5.02	
201 Fluoranthene	202	11.925	11.930	-0.006	97	59672	5.00	5.18	
202 Benzidine	184	12.058	12.063	-0.005	99	37607	5.00	4.83	
204 Pyrene	202	12.122	12.133	-0.011	98	64905	5.00	5.11	
210 Butyl benzyl phthalate	149	12.699	12.704	-0.005	98	27129	5.00	4.69	
215 3,3'-Dichlorobenzidine	252	13.143	13.148	-0.005	73	21934	5.00	4.80	
217 Benzo[a]anthracene	228	13.159	13.164	-0.005	98	66981	5.00	5.23	
216 Bis(2-ethylhexyl) phthalat	149	13.191	13.191	0.000	96	38078	5.00	4.68	
218 Chrysene	228	13.185	13.196	-0.011	96	66780	5.00	5.63	
220 Di-n-octyl phthalate	149	13.709	13.709	0.000	99	63190	5.00	4.57	
221 Benzo[b]fluoranthene	252	14.024	14.029	-0.005	97	63272	5.00	4.86	
222 Benzo[k]fluoranthene	252	14.040	14.051	-0.011	99	76225	5.00	5.65	
225 Benzo[a]pyrene	252	14.270	14.275	-0.005	75	63163	5.00	5.21	
227 Indeno[1,2,3-cd]pyrene	276	15.178	15.189	-0.011	98	71424	5.00	5.21	
228 Dibenz(a,h)anthracene	278	15.183	15.194	-0.011	87	60210	5.00	5.22	
229 Benzo[g,h,i]perylene	276	15.424	15.434	-0.010	96	60743	5.00	5.26	
S 232 Total Cresols	1				0			10.4	
S 234 3 & 4 Methylphenol	108				0			4.99	
S 233 3-Methylphenol	1				0			4.99	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00488	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00037	Amount Added: 20.00	Units: uL	Run Reagent

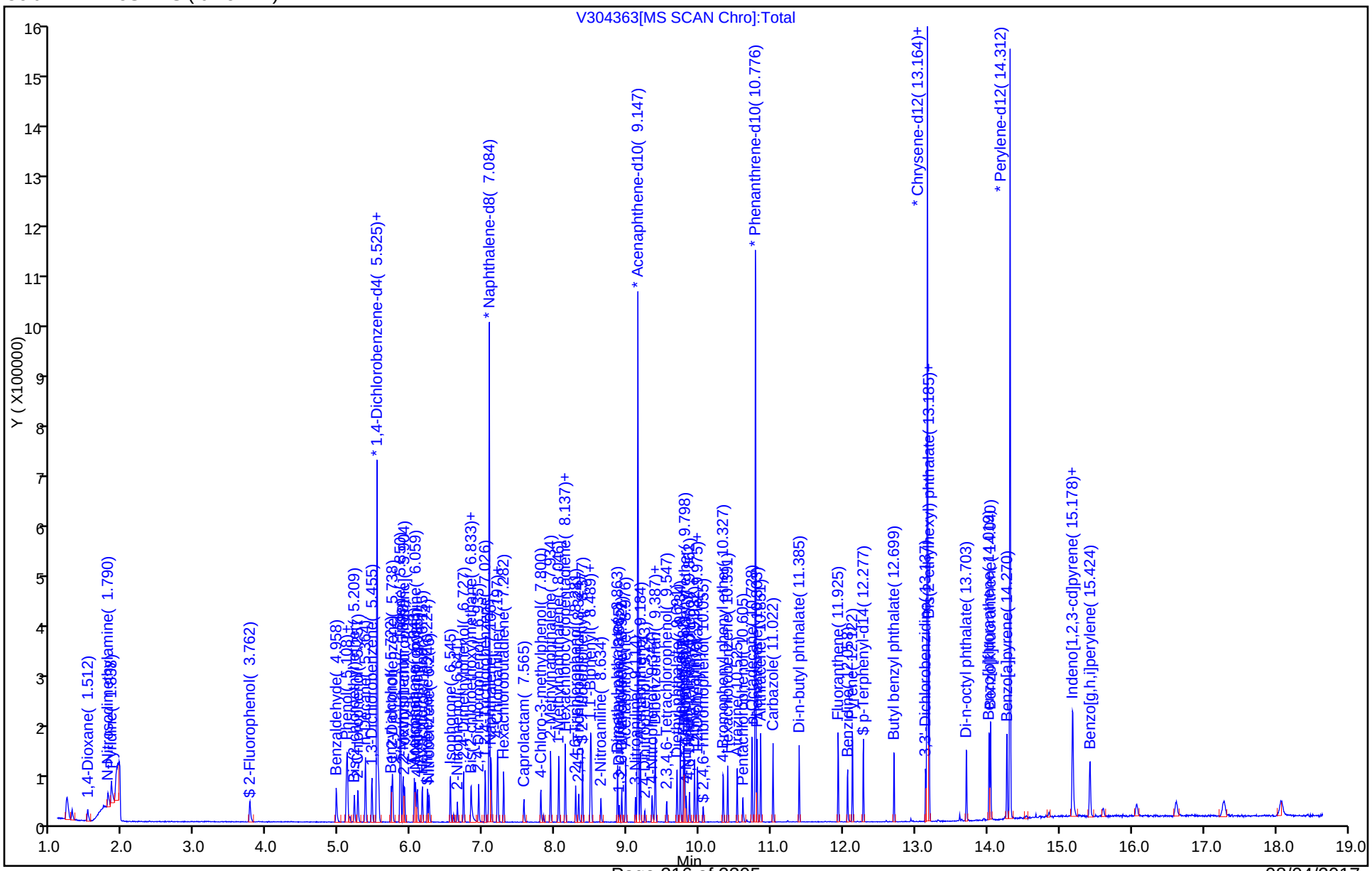
Report Date: 02-Aug-2017 14:51:00 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304363.D

Injection Date:	01-Aug-2017 14:54:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	IC L1 5			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

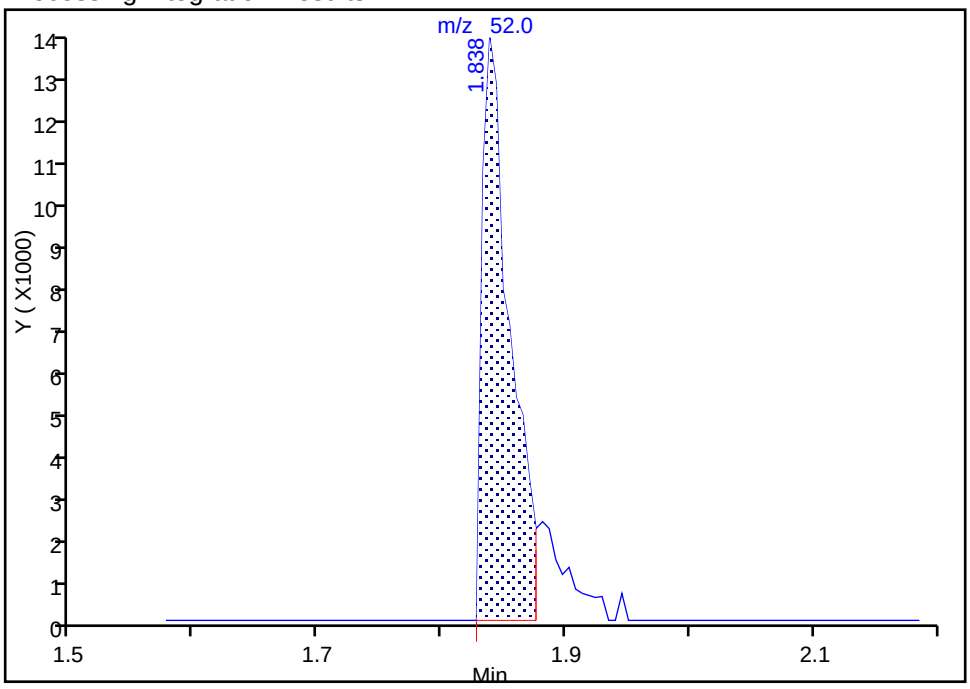
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304363.D
Injection Date: 01-Aug-2017 14:54:30 Instrument ID: HP5973V
Lims ID: IC L1 5
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

70 Pyridine, CAS: 110-86-1

Signal: 1

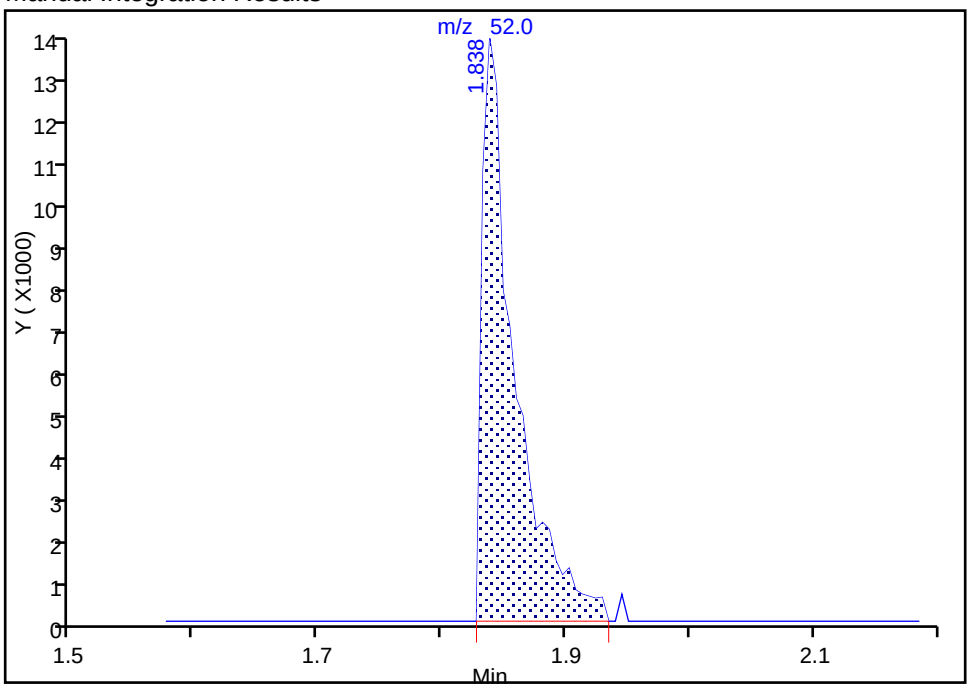
Processing Integration Results

RT: 1.84
Area: 21456
Amount: 4.563890
Amount Units: ng/uL



Manual Integration Results

RT: 1.84
Area: 25047
Amount: 5.331680
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 16:32:45
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

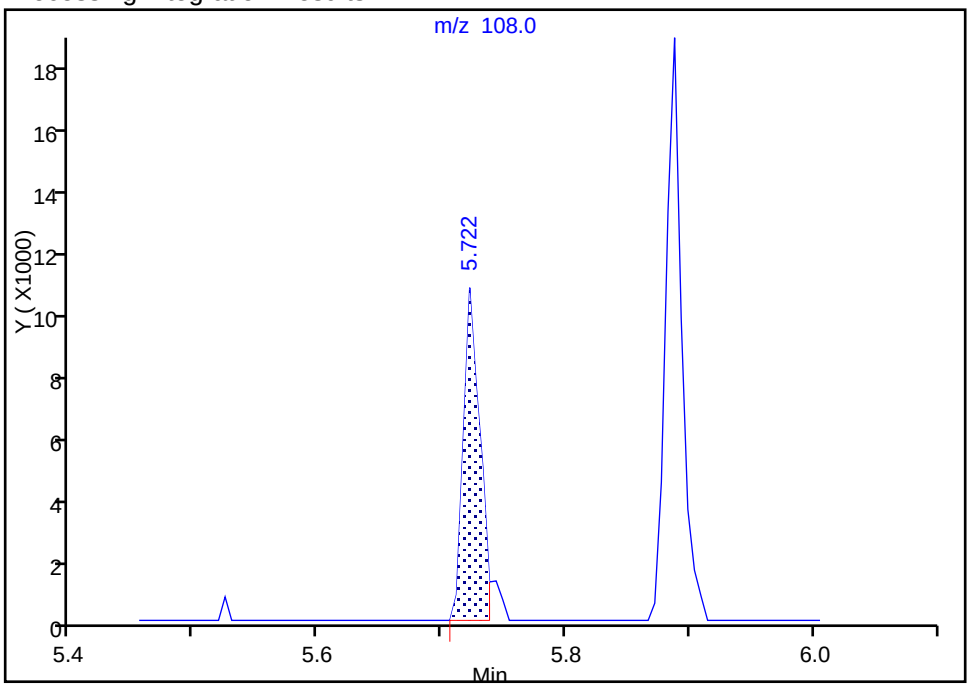
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304363.D
Injection Date: 01-Aug-2017 14:54:30 Instrument ID: HP5973V
Lims ID: IC L1 5
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

90 Benzyl alcohol, CAS: 100-51-6

Signal: 1

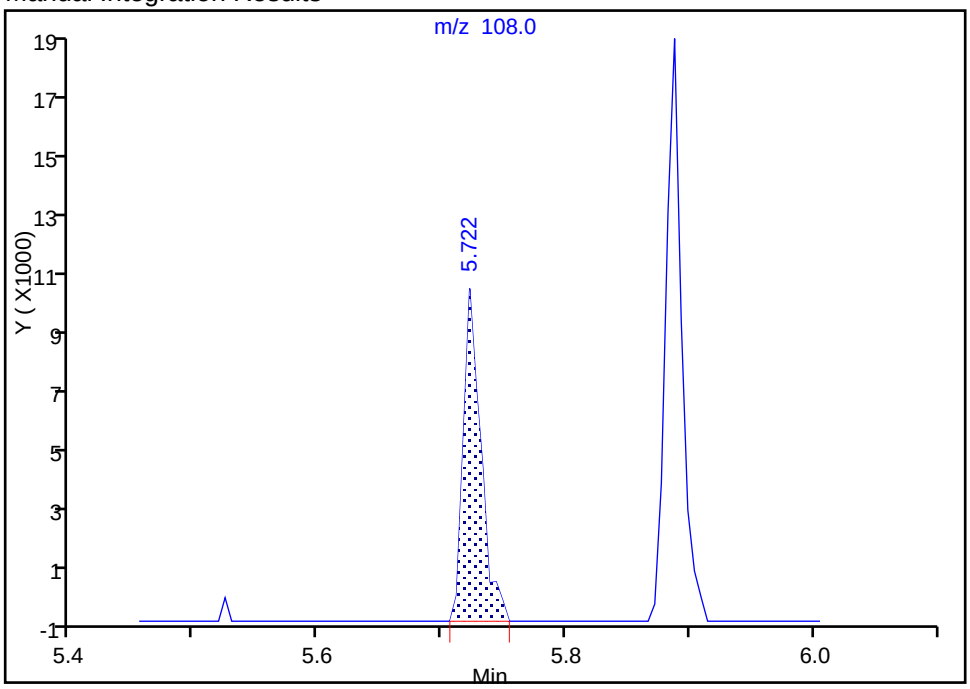
Processing Integration Results

RT: 5.72
Area: 9882
Amount: 4.413004
Amount Units: ng/uL



Manual Integration Results

RT: 5.72
Area: 10500
Amount: 4.765463
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 16:32:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

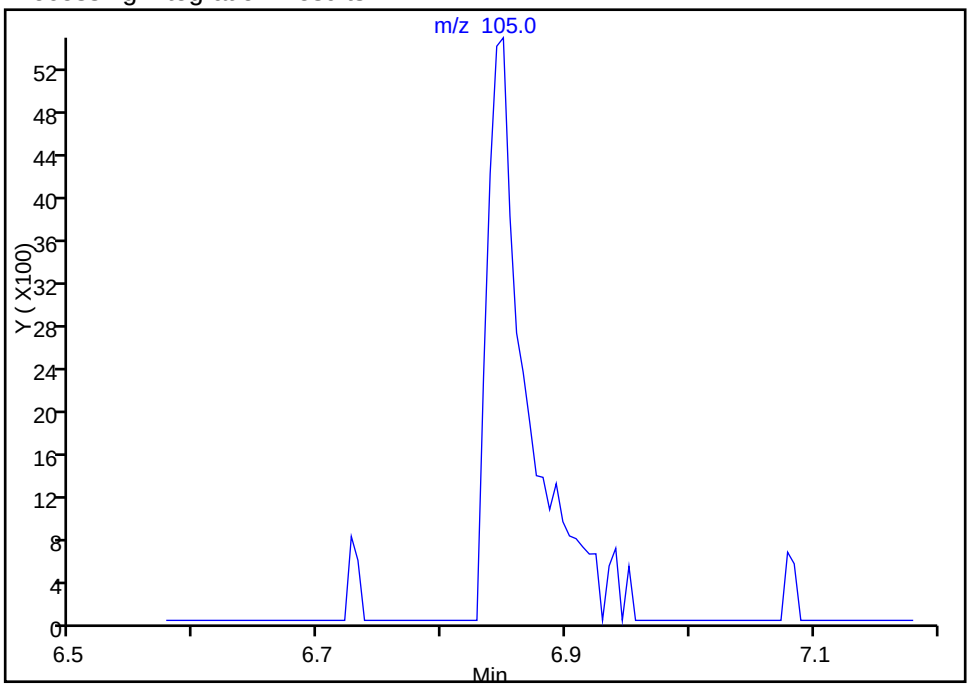
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304363.D
Injection Date: 01-Aug-2017 14:54:30 Instrument ID: HP5973V
Lims ID: IC L1 5
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

115 Benzoic acid, CAS: 65-85-0

Signal: 1

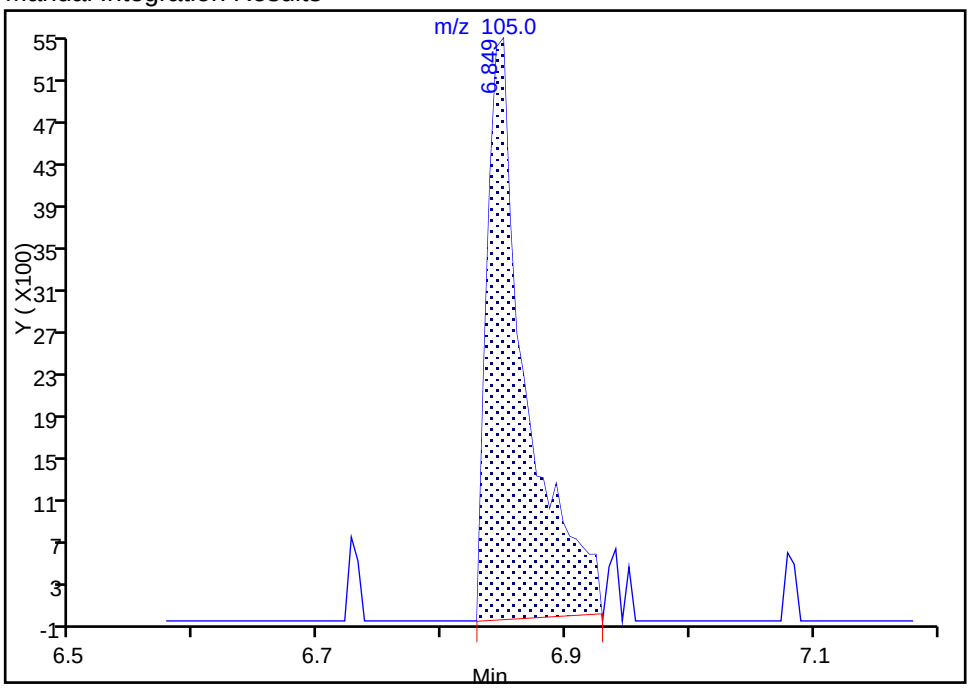
Not Detected
Expected RT: 6.95

Processing Integration Results



Manual Integration Results

RT: 6.85
Area: 11787
Amount: 16.608738
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 16:33:16
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304364.D
Lims ID: IC L1 20
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Aug-2017 15:20:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064504-005
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 14:51:03 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 01-Aug-2017 16:35:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.530	5.530	0.000	98	111883	40.0	40.0	
* 2 Naphthalene-d8	136	7.084	7.090	-0.006	99	395850	40.0	40.0	
* 3 Acenaphthene-d10	164	9.152	9.152	0.000	96	201652	40.0	40.0	
* 4 Phenanthrene-d10	188	10.781	10.781	0.000	97	374919	40.0	40.0	
* 5 Chrysene-d12	240	13.169	13.175	-0.006	98	429012	40.0	40.0	
* 6 Perylene-d12	264	14.318	14.318	0.000	99	425498	40.0	40.0	
$ 7 2-Fluorophenol	112	3.767	3.762	0.005	97	73592	20.0	20.9	
$ 8 Phenol-d5	99	5.102	5.102	0.000	96	87664	20.0	20.9	
$ 9 Nitrobenzene-d5	82	6.224	6.224	0.000	94	71669	20.0	19.7	
$ 10 2-Fluorobiphenyl	172	8.383	8.383	-0.001	100	158818	20.0	21.3	
$ 11 2,4,6-Tribromophenol	330	10.060	10.060	0.000	93	21127	20.0	19.2	
$ 12 p-Terphenyl-d14	244	12.277	12.282	-0.005	99	187031	20.0	21.4	
68 1,4-Dioxane	88	1.512	1.512	0.000	88	32454	20.0	21.3	
69 N-Nitrosodimethylamine	42	1.790	1.790	0.000	91	47658	20.0	21.2	
70 Pyridine	52	1.833	1.833	0.000	76	99371	20.0	20.8	M
80 Benzaldehyde	77	4.958	4.958	0.000	92	64497	20.0	21.5	
82 Aniline	93	5.113	5.113	0.000	90	119629	20.0	21.3	
81 Phenol	94	5.118	5.118	0.000	85	100838	20.0	21.5	
83 Bis(2-chloroethyl)ether	93	5.209	5.209	0.000	88	74514	20.0	21.4	
84 2-Chlorophenol	128	5.263	5.263	0.000	96	77947	20.0	21.1	
263 n-Decane	57	5.369	5.370	-0.001	90	137522	20.0	21.3	
87 1,3-Dichlorobenzene	146	5.455	5.455	0.000	97	89950	20.0	21.0	
88 1,4-Dichlorobenzene	146	5.551	5.551	0.000	93	91934	20.0	21.0	
90 Benzyl alcohol	108	5.722	5.728	-0.006	90	47777	20.0	21.4	
91 1,2-Dichlorobenzene	146	5.743	5.744	-0.001	97	86108	20.0	21.5	
248 Indene	115	5.850	5.856	-0.006	96	399520	60.0	63.1	
92 2-Methylphenol	108	5.888	5.888	0.000	97	65622	20.0	21.0	
93 2,2'-oxybis[1-chloropropan	45	5.909	5.909	0.000	92	141774	20.0	22.1	
94 Acetophenone	105	6.043	6.048	-0.005	93	102534	20.0	21.2	
95 N-Nitrosodi-n-propylamine	70	6.064	6.064	0.000	89	55261	20.0	21.3	
96 4-Methylphenol	108	6.085	6.091	-0.006	93	68870	20.0	21.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.155	6.155	0.000	93	32512	20.0	21.4	
102 Nitrobenzene	77	6.246	6.251	-0.005	94	74930	20.0	20.3	
106 Isophorone	82	6.545	6.545	0.000	98	138498	20.0	20.7	
107 2-Nitrophenol	139	6.641	6.641	0.000	97	32096	20.0	19.8	
108 2,4-Dimethylphenol	107	6.726	6.727	0.000	97	75302	20.0	21.1	
111 Bis(2-chloroethoxy)methane	93	6.833	6.833	0.000	91	80437	20.0	20.6	
114 2,4-Dichlorophenol	162	6.935	6.940	-0.005	96	64885	20.0	21.3	
115 Benzoic acid	105	6.897	6.951	-0.054	91	95893	60.0	53.8	M
117 1,2,4-Trichlorobenzene	180	7.031	7.031	0.000	94	70993	20.0	21.0	
118 Naphthalene	128	7.111	7.111	0.000	97	213004	20.0	21.2	
119 4-Chloroaniline	127	7.197	7.197	0.000	94	87366	20.0	20.9	
122 2,6-Dichlorophenol	162	7.202	7.207	-0.005	94	63030	20.0	21.3	
121 Hexachlorobutadiene	225	7.287	7.287	0.000	94	46055	20.0	20.6	
124 Caprolactam	113	7.587	7.619	-0.033	73	20451	20.0	20.6	
129 4-Chloro-3-methylphenol	107	7.800	7.806	-0.006	96	59252	20.0	20.4	
131 2-Methylnaphthalene	142	7.939	7.939	0.000	91	134464	20.0	20.8	
251 1-Methylnaphthalene	142	8.051	8.051	0.000	98	126156	20.0	21.2	
134 Hexachlorocyclopentadiene	237	8.137	8.137	0.000	97	44006	20.0	19.5	
135 1,2,4,5-Tetrachlorobenzene	216	8.142	8.142	0.000	98	71438	20.0	21.2	
137 2,4,6-Trichlorophenol	196	8.286	8.286	0.000	94	42502	20.0	20.0	
138 2,4,5-Trichlorophenol	196	8.324	8.329	-0.005	94	42663	20.0	19.7	
140 1,1'-Biphenyl	154	8.489	8.495	-0.006	95	169595	20.0	20.9	
141 2-Chloronaphthalene	162	8.500	8.505	-0.005	98	137238	20.0	21.3	
143 2-Nitroaniline	65	8.634	8.639	-0.005	79	40433	20.0	19.4	
146 Dimethyl phthalate	163	8.869	8.874	-0.005	99	159092	20.0	21.1	
148 1,3-Dinitrobenzene	168	8.890	8.895	-0.005	87	21105	20.0	19.7	
149 2,6-Dinitrotoluene	165	8.927	8.933	-0.006	92	31356	20.0	19.5	
150 Acenaphthylene	152	8.981	8.981	0.000	98	200001	20.0	21.3	
151 3-Nitroaniline	138	9.114	9.120	-0.006	86	32745	20.0	20.0	
152 Acenaphthene	153	9.184	9.189	-0.005	94	133152	20.0	21.5	
153 2,4-Dinitrophenol	184	9.243	9.248	-0.005	85	28570	40.0	36.0	
154 4-Nitrophenol	109	9.344	9.355	-0.011	95	39831	40.0	38.6	
155 Dibenzofuran	168	9.387	9.392	-0.005	95	192017	20.0	21.2	
156 2,4-Dinitrotoluene	165	9.398	9.398	0.000	90	42219	20.0	19.9	
158 2,3,4,6-Tetrachlorophenol	232	9.547	9.553	-0.006	74	33512	20.0	19.2	
161 Diethyl phthalate	149	9.697	9.702	-0.005	98	156997	20.0	20.7	
256 Hexadecane	57	9.739	9.740	-0.001	70	140621	20.0	21.6	
162 Fluorene	166	9.782	9.788	-0.006	93	153892	20.0	21.3	
163 4-Chlorophenyl phenyl ethe	204	9.804	9.804	0.000	94	75481	20.0	20.9	
164 4-Nitroaniline	138	9.825	9.830	-0.005	81	33546	20.0	20.7	
165 4,6-Dinitro-2-methylphenol	198	9.868	9.873	-0.005	84	42977	40.0	38.4	
168 N-Nitrosodiphenylamine	169	9.937	9.943	-0.006	64	109678	20.0	21.2	
169 Diphenylamine	169	9.937	9.943	-0.006	94	109678	17.1	18.2	
171 Azobenzene	77	9.974	9.980	-0.006	98	153680	20.0	21.1	
170 1,2-Diphenylhydrazine	77	9.974	9.980	-0.006	96	153680	20.0	21.0	
175 4-Bromophenyl phenyl ether	248	10.332	10.338	-0.006	68	46049	20.0	21.0	
179 Hexachlorobenzene	284	10.397	10.402	-0.005	95	49930	20.0	20.5	
180 Atrazine	200	10.530	10.536	-0.006	92	43779	20.0	21.2	
183 Pentachlorophenol	266	10.605	10.610	-0.005	92	43822	40.0	37.7	
265 n-Octadecane	57	10.733	10.733	0.000	84	138921	20.0	21.5	
188 Phenanthrene	178	10.803	10.808	-0.005	97	221327	20.0	21.0	
189 Anthracene	178	10.856	10.856	0.000	97	236850	20.0	21.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.027	11.027	0.000	97	200474	20.0	21.1	
195 Di-n-butyl phthalate	149	11.390	11.390	0.000	100	256158	20.0	20.9	
201 Fluoranthene	202	11.930	11.930	0.000	97	242665	20.0	20.9	
202 Benzidine	184	12.058	12.063	-0.005	99	163004	20.0	21.8	
204 Pyrene	202	12.127	12.133	-0.006	98	258380	20.0	21.2	
210 Butyl benzyl phthalate	149	12.704	12.704	0.000	98	114092	20.0	20.6	
215 3,3'-Dichlorobenzidine	252	13.142	13.148	-0.006	73	90722	20.0	20.7	
217 Benzo[a]anthracene	228	13.158	13.164	-0.006	98	258246	20.0	21.1	
216 Bis(2-ethylhexyl) phthalat	149	13.191	13.191	0.000	84	165466	20.0	21.2	
218 Chrysene	228	13.191	13.196	-0.005	97	249470	20.0	22.0	
220 Di-n-octyl phthalate	149	13.709	13.709	0.000	99	281007	20.0	21.2	
221 Benzo[b]fluoranthene	252	14.024	14.029	-0.005	96	253093	20.0	20.8	
222 Benzo[k]fluoranthene	252	14.045	14.051	-0.006	99	262449	20.0	20.9	
225 Benzo[a]pyrene	252	14.270	14.275	-0.005	76	239123	20.0	21.1	
227 Indeno[1,2,3-cd]pyrene	276	15.183	15.189	-0.006	98	262638	20.0	20.5	
228 Dibenz(a,h)anthracene	278	15.189	15.194	-0.005	90	222969	20.0	20.7	
229 Benzo[g,h,i]perylene	276	15.429	15.434	-0.005	98	214851	20.0	19.9	
S 232 Total Cresols	1				0			42.4	
S 233 3-Methylphenol	1				0			21.5	
S 234 3 & 4 Methylphenol	108				0			21.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00489	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00037	Amount Added: 20.00	Units: uL	Run Reagent

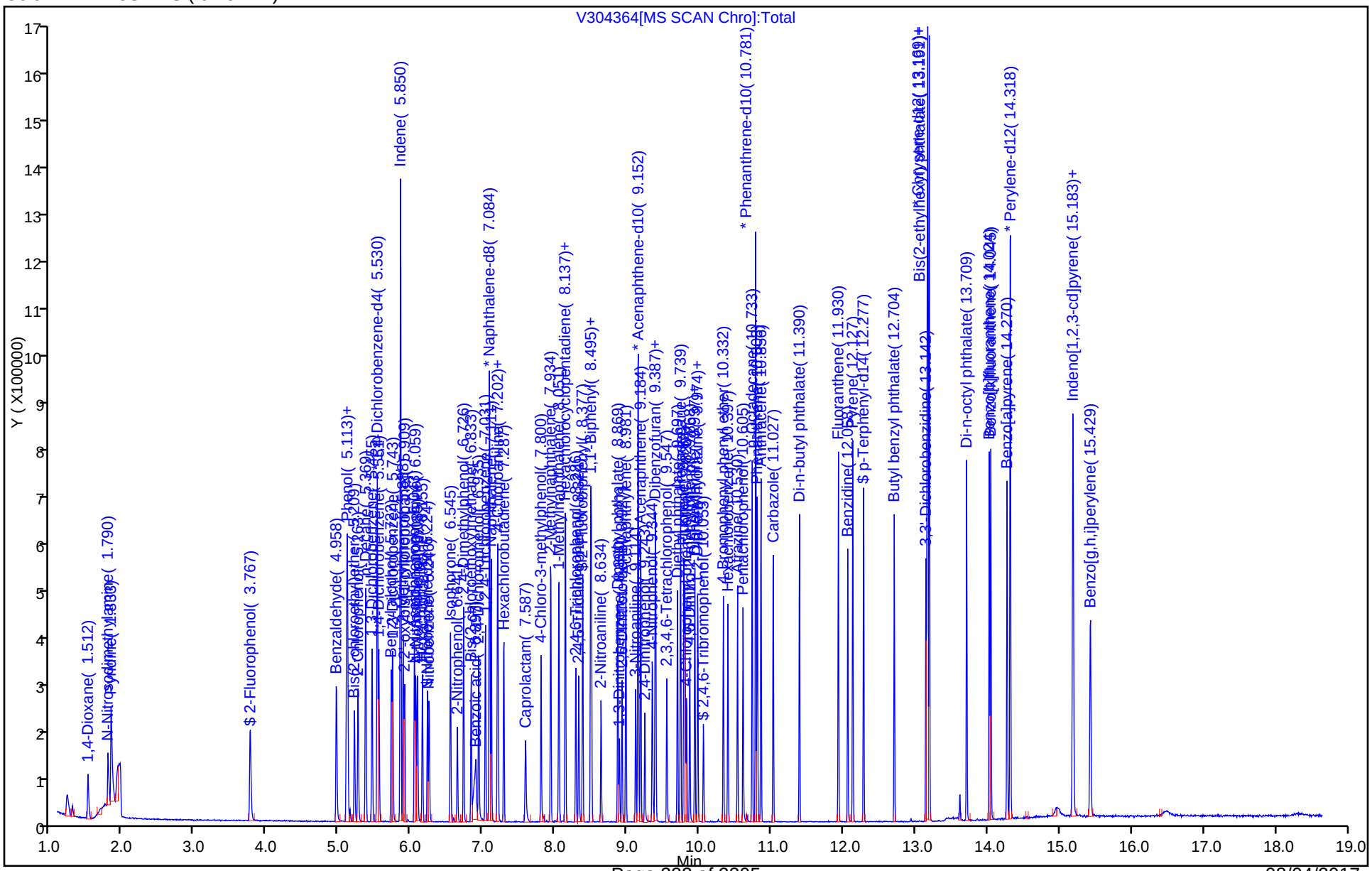
Report Date: 02-Aug-2017 14:51:04 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304364.D

Injection Date:	01-Aug-2017 15:20:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	IC L1 20			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

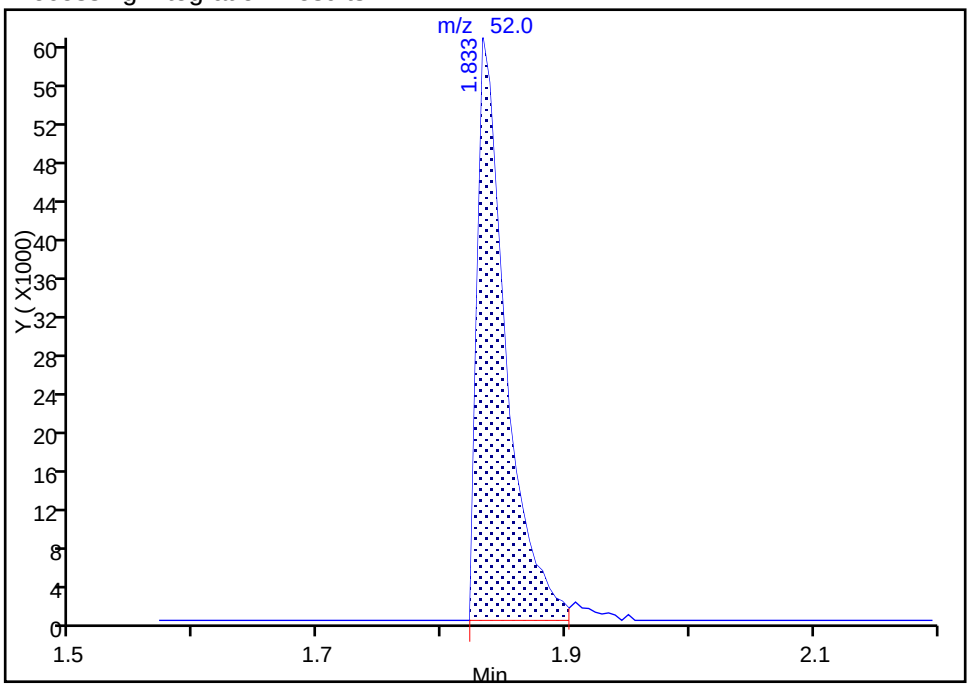
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304364.D
Injection Date: 01-Aug-2017 15:20:30 Instrument ID: HP5973V
Lims ID: IC L1 20
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

70 Pyridine, CAS: 110-86-1

Signal: 1

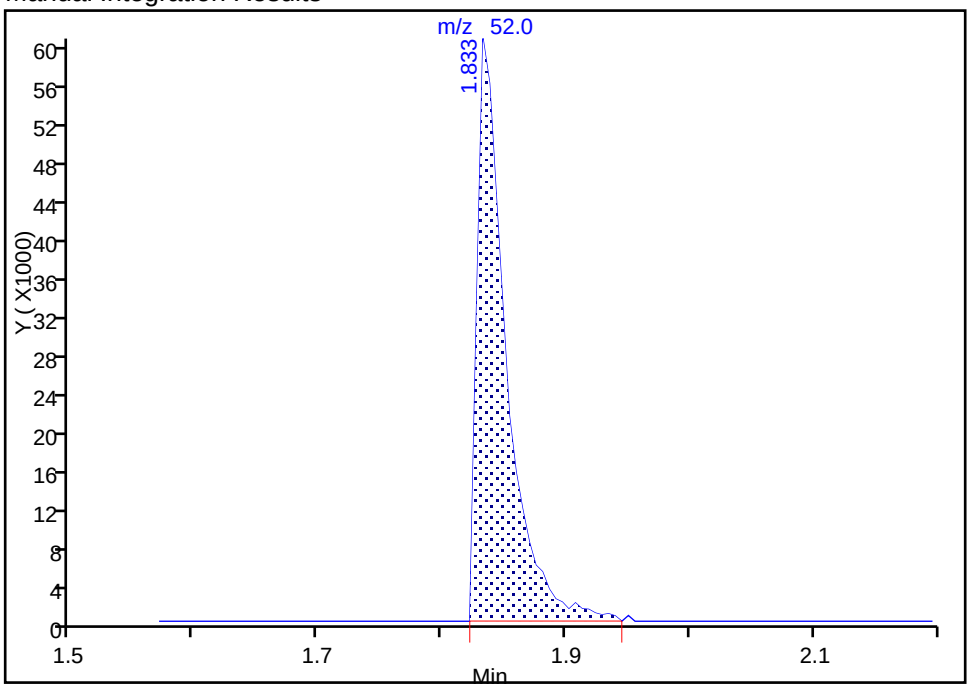
Processing Integration Results

RT: 1.83
Area: 97197
Amount: 19.385591
Amount Units: ng/uL



Manual Integration Results

RT: 1.83
Area: 99371
Amount: 20.843881
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 16:34:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

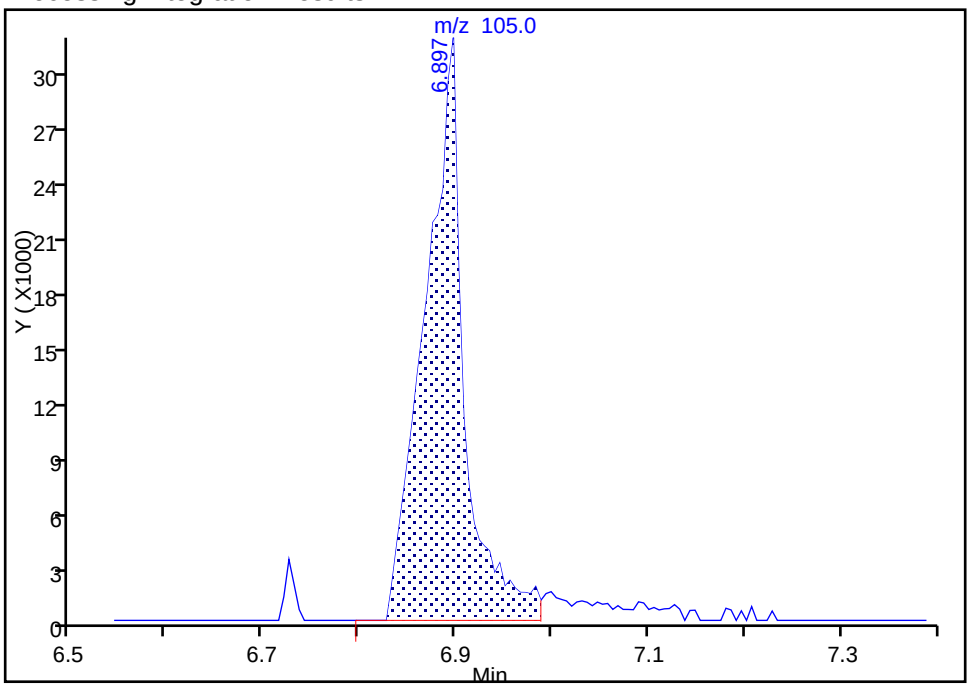
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304364.D
Injection Date: 01-Aug-2017 15:20:30 Instrument ID: HP5973V
Lims ID: IC L1 20
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

115 Benzoic acid, CAS: 65-85-0

Signal: 1

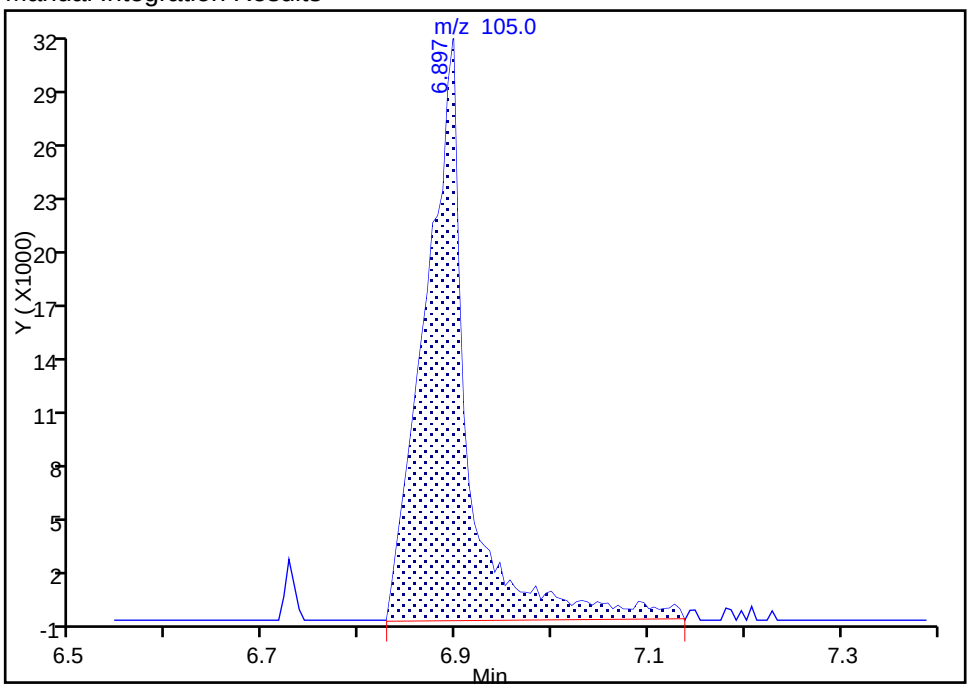
Processing Integration Results

RT: 6.90
Area: 88657
Amount: 61.956318
Amount Units: ng/uL



Manual Integration Results

RT: 6.90
Area: 95893
Amount: 53.759702
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 16:34:44
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304365.D
Lims ID: ICIS L1 50
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 01-Aug-2017 15:46:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064504-006
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 14:51:06 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: pagem Date: 02-Aug-2017 14:48:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.530	5.530	0.000	95	106896	40.0	40.0	
* 2 Naphthalene-d8	136	7.090	7.090	0.000	99	360271	40.0	40.0	
* 3 Acenaphthene-d10	164	9.152	9.152	0.000	97	183618	40.0	40.0	
* 4 Phenanthrene-d10	188	10.781	10.781	0.000	97	339618	40.0	40.0	
* 5 Chrysene-d12	240	13.175	13.175	0.000	97	409560	40.0	40.0	
* 6 Perylene-d12	264	14.318	14.318	0.000	99	411460	40.0	40.0	
$ 7 2-Fluorophenol	112	3.762	3.762	0.000	96	186192	50.0	55.4	
$ 8 Phenol-d5	99	5.102	5.102	0.000	94	220388	50.0	54.9	
$ 9 Nitrobenzene-d5	82	6.224	6.224	0.000	95	183241	50.0	55.5	
$ 10 2-Fluorobiphenyl	172	8.383	8.383	0.000	100	369659	50.0	54.4	
$ 11 2,4,6-Tribromophenol	330	10.060	10.060	0.000	94	56198	50.0	56.4	
$ 12 p-Terphenyl-d14	244	12.282	12.282	0.000	99	441533	50.0	53.0	
68 1,4-Dioxane	88	1.512	1.512	0.000	86	80480	50.0	55.3	
69 N-Nitrosodimethylamine	42	1.790	1.790	0.000	90	115795	50.0	53.8	
70 Pyridine	52	1.833	1.833	0.000	76	248006	50.0	54.4	M
80 Benzaldehyde	77	4.958	4.958	0.000	92	156068	50.0	54.4	
82 Aniline	93	5.113	5.113	0.000	91	283261	50.0	52.7	
81 Phenol	94	5.118	5.118	0.000	96	241197	50.0	53.8	
83 Bis(2-chloroethyl)ether	93	5.209	5.209	0.000	90	180888	50.0	54.3	
84 2-Chlorophenol	128	5.263	5.263	0.000	96	188997	50.0	53.5	
263 n-Decane	57	5.370	5.370	0.000	89	332102	50.0	53.8	
87 1,3-Dichlorobenzene	146	5.455	5.455	0.000	98	222626	50.0	54.3	
88 1,4-Dichlorobenzene	146	5.551	5.551	0.000	93	219848	50.0	52.5	
90 Benzyl alcohol	108	5.728	5.728	0.000	89	115745	50.0	54.2	
91 1,2-Dichlorobenzene	146	5.744	5.744	0.000	97	203409	50.0	53.2	
248 Indene	115	5.856	5.856	0.000	96	935500	150.0	162.4	
92 2-Methylphenol	108	5.888	5.888	0.000	98	159104	50.0	53.2	
93 2,2'-oxybis[1-chloropropan	45	5.909	5.909	0.000	93	324913	50.0	53.1	
94 Acetophenone	105	6.048	6.048	0.000	93	240768	50.0	52.2	
95 N-Nitrosodi-n-propylamine	70	6.064	6.064	0.000	88	131035	50.0	52.8	
96 4-Methylphenol	108	6.091	6.091	0.000	91	168576	50.0	55.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.155	6.155	0.000	92	76761	50.0	52.9	
102 Nitrobenzene	77	6.251	6.251	0.000	93	185670	50.0	55.2	
106 Isophorone	82	6.545	6.545	0.000	98	336937	50.0	55.4	
107 2-Nitrophenol	139	6.641	6.641	0.000	96	82772	50.0	56.0	
108 2,4-Dimethylphenol	107	6.727	6.727	0.000	97	178306	50.0	54.8	
111 Bis(2-chloroethoxy)methane	93	6.833	6.833	0.000	93	193804	50.0	54.5	
114 2,4-Dichlorophenol	162	6.940	6.940	0.000	96	154914	50.0	55.7	
115 Benzoic acid	105	6.951	6.951	0.000	91	289922	150.0	152.3	M
117 1,2,4-Trichlorobenzene	180	7.031	7.031	0.000	95	170492	50.0	55.5	
118 Naphthalene	128	7.111	7.111	0.000	98	496721	50.0	54.2	
119 4-Chloroaniline	127	7.197	7.197	0.000	95	207593	50.0	54.7	
122 2,6-Dichlorophenol	162	7.207	7.207	0.000	95	146203	50.0	54.4	
121 Hexachlorobutadiene	225	7.287	7.287	0.000	95	109072	50.0	53.6	
124 Caprolactam	113	7.619	7.619	0.000	74	51573	50.0	57.1	M
129 4-Chloro-3-methylphenol	107	7.806	7.806	0.000	96	148009	50.0	56.1	
131 2-Methylnaphthalene	142	7.939	7.939	0.000	91	322593	50.0	54.8	
251 1-Methylnaphthalene	142	8.051	8.051	0.000	99	297452	50.0	55.0	
134 Hexachlorocyclopentadiene	237	8.137	8.137	0.000	96	115475	50.0	56.2	
135 1,2,4,5-Tetrachlorobenzene	216	8.142	8.142	0.000	98	166953	50.0	54.3	
137 2,4,6-Trichlorophenol	196	8.286	8.286	0.000	94	108191	50.0	56.0	
138 2,4,5-Trichlorophenol	196	8.329	8.329	0.000	95	113694	50.0	57.6	
140 1,1'-Biphenyl	154	8.495	8.495	0.000	95	404314	50.0	54.8	
141 2-Chloronaphthalene	162	8.505	8.505	0.000	97	322715	50.0	54.9	
143 2-Nitroaniline	65	8.639	8.639	0.000	79	107242	50.0	56.4	
146 Dimethyl phthalate	163	8.874	8.874	0.000	99	371637	50.0	54.1	
148 1,3-Dinitrobenzene	168	8.895	8.895	0.000	85	54584	50.0	52.3	
149 2,6-Dinitrotoluene	165	8.933	8.933	0.000	92	81034	50.0	55.4	
150 Acenaphthylene	152	8.981	8.981	0.000	98	467356	50.0	54.7	
151 3-Nitroaniline	138	9.120	9.120	0.000	89	85342	50.0	57.2	
152 Acenaphthene	153	9.189	9.189	0.000	94	307862	50.0	54.5	
153 2,4-Dinitrophenol	184	9.248	9.248	0.000	85	85646	100.0	102.1	
154 4-Nitrophenol	109	9.355	9.355	0.000	94	108082	100.0	105.8	
155 Dibenzofuran	168	9.392	9.392	0.000	95	449996	50.0	54.7	
156 2,4-Dinitrotoluene	165	9.398	9.398	0.000	88	108102	50.0	55.9	
158 2,3,4,6-Tetrachlorophenol	232	9.553	9.553	0.000	73	91321	50.0	57.5	
161 Diethyl phthalate	149	9.702	9.702	0.000	98	375902	50.0	54.4	
256 Hexadecane	57	9.740	9.740	0.000	71	326913	50.0	55.2	
162 Fluorene	166	9.788	9.788	0.000	94	356870	50.0	54.4	
163 4-Chlorophenyl phenyl ethe	204	9.804	9.804	0.000	94	174935	50.0	53.2	
164 4-Nitroaniline	138	9.830	9.830	0.000	80	84749	50.0	57.4	
165 4,6-Dinitro-2-methylphenol	198	9.873	9.873	0.000	82	119130	100.0	107.9	
169 Diphenylamine	169	9.943	9.943	0.000	94	259106	42.8	47.3	
168 N-Nitrosodiphenylamine	169	9.943	9.943	0.000	63	259106	50.0	55.4	
170 1,2-Diphenylhydrazine	77	9.980	9.980	0.000	96	366232	50.0	55.0	
171 Azobenzene	77	9.980	9.980	0.000	99	366232	50.0	55.6	
175 4-Bromophenyl phenyl ether	248	10.338	10.338	0.000	68	107790	50.0	54.2	
179 Hexachlorobenzene	284	10.402	10.402	0.000	94	120306	50.0	54.6	
180 Atrazine	200	10.536	10.536	0.000	91	104253	50.0	55.5	
183 Pentachlorophenol	266	10.610	10.610	0.000	92	126629	100.0	108.4	
265 n-Octadecane	57	10.733	10.733	0.000	84	327383	50.0	55.9	
188 Phenanthrene	178	10.808	10.808	0.000	97	531104	50.0	55.5	
189 Anthracene	178	10.856	10.856	0.000	97	557012	50.0	55.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.027	11.027	0.000	97	475277	50.0	55.1	
195 Di-n-butyl phthalate	149	11.390	11.390	0.000	100	624524	50.0	56.4	
201 Fluoranthene	202	11.930	11.930	0.000	97	594809	50.0	56.6	
202 Benzidine	184	12.063	12.063	0.000	99	400383	50.0	56.2	
204 Pyrene	202	12.133	12.133	0.000	98	604978	50.0	52.0	
210 Butyl benzyl phthalate	149	12.704	12.704	0.000	98	285723	50.0	54.0	
215 3,3'-Dichlorobenzidine	252	13.148	13.148	0.000	74	232629	50.0	55.7	
217 Benzo[a]anthracene	228	13.164	13.164	0.000	97	635097	50.0	54.2	
216 Bis(2-ethylhexyl) phthalat	149	13.191	13.191	0.000	95	411723	50.0	55.3	
218 Chrysene	228	13.196	13.196	0.000	97	576968	50.0	53.2	
220 Di-n-octyl phthalate	149	13.709	13.709	0.000	99	716954	50.0	56.7	
221 Benzo[b]fluoranthene	252	14.029	14.029	0.000	96	660150	50.0	56.2	
222 Benzo[k]fluoranthene	252	14.051	14.051	0.000	99	634757	50.0	52.2	
225 Benzo[a]pyrene	252	14.275	14.275	0.000	76	590080	50.0	54.0	
227 Indeno[1,2,3-cd]pyrene	276	15.189	15.189	0.000	98	661232	50.0	53.5	
228 Dibenz(a,h)anthracene	278	15.194	15.194	0.000	90	560538	50.0	53.9	
229 Benzo[g,h,i]perylene	276	15.434	15.434	0.000	98	551287	50.0	52.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00490	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00037	Amount Added: 20.00	Units: uL	Run Reagent

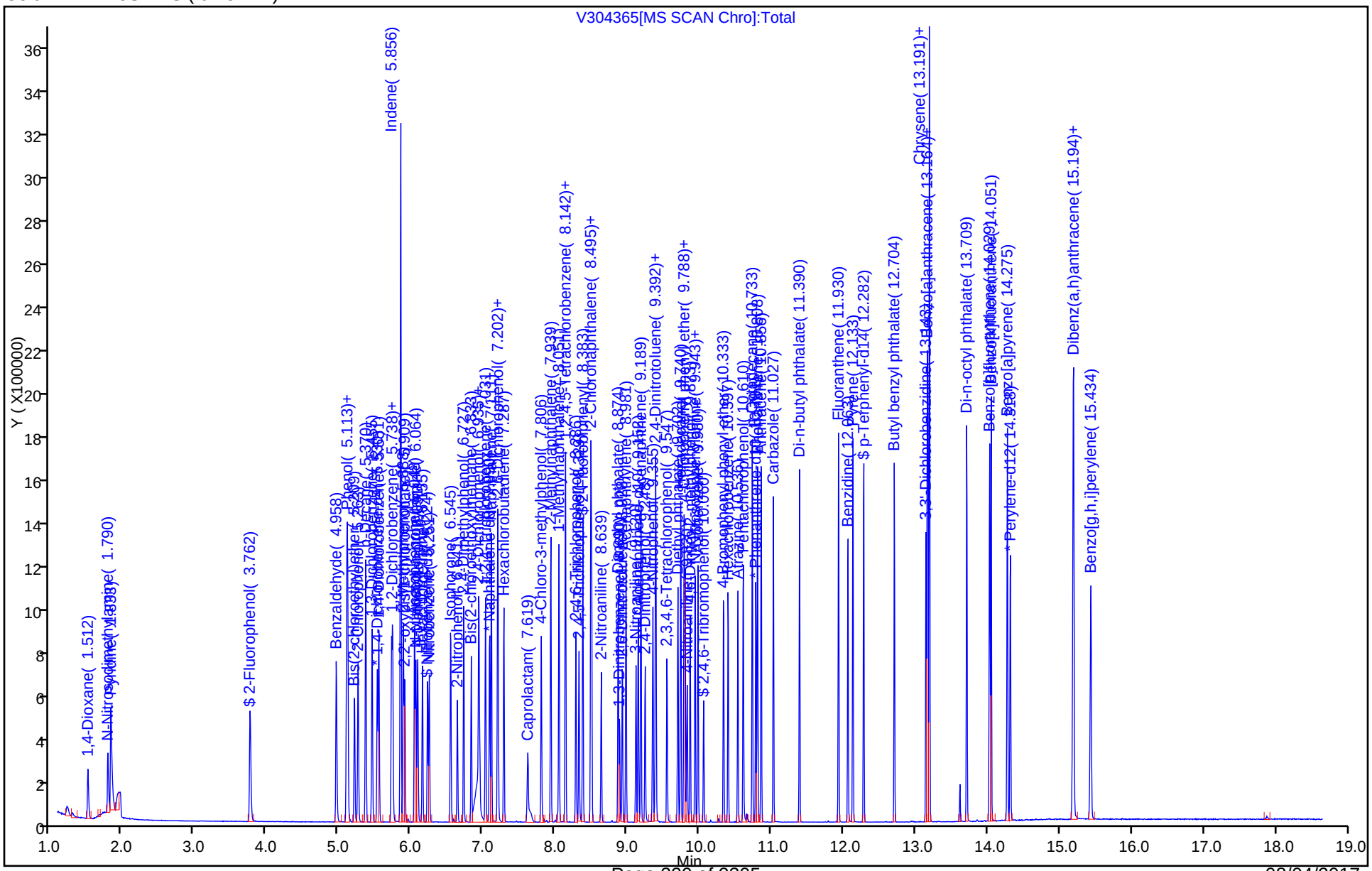
Report Date: 02-Aug-2017 14:51:07 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304365.D

Injection Date:	01-Aug-2017 15:46:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	ICIS L1 50			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

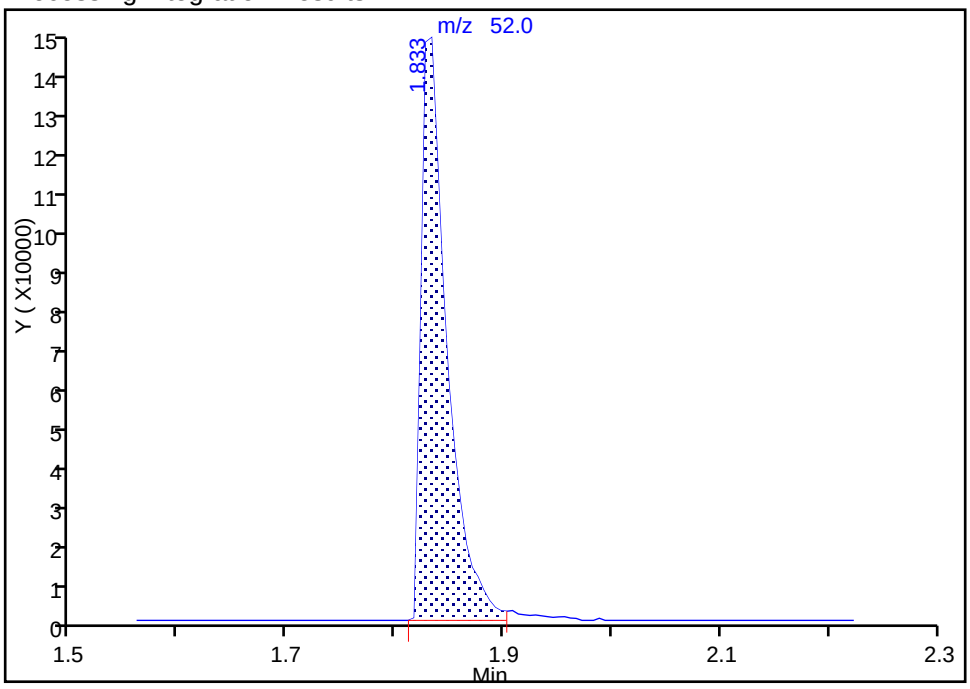
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304365.D
Injection Date: 01-Aug-2017 15:46:30 Instrument ID: HP5973V
Lims ID: ICIS L1 50
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

70 Pyridine, CAS: 110-86-1

Signal: 1

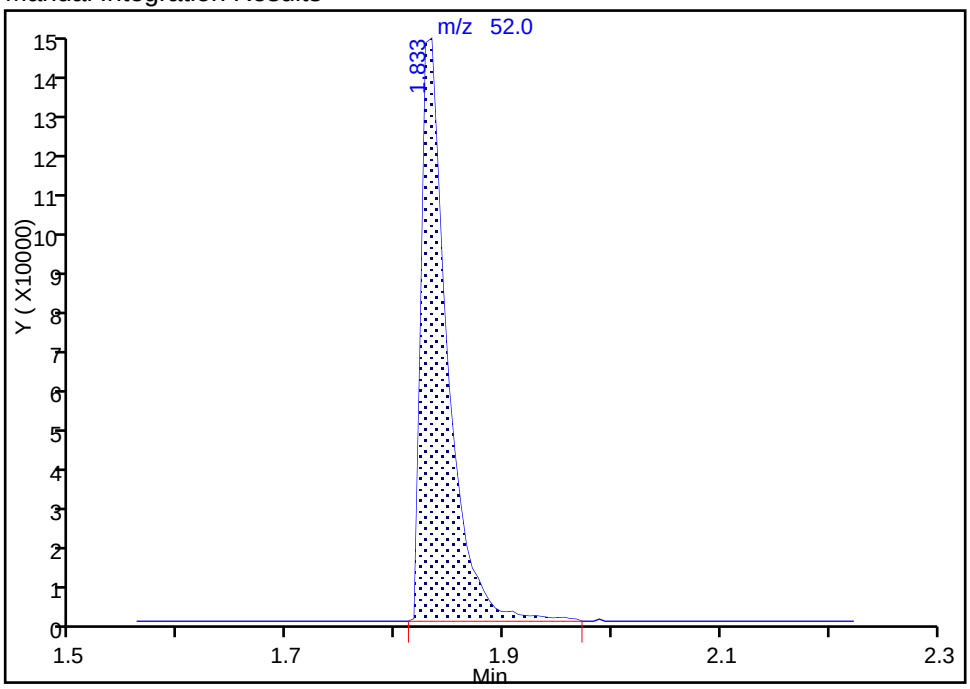
Processing Integration Results

RT: 1.83
Area: 243545
Amount: 50.475528
Amount Units: ng/uL



Manual Integration Results

RT: 1.83
Area: 248006
Amount: 54.448230
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 16:35:50
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

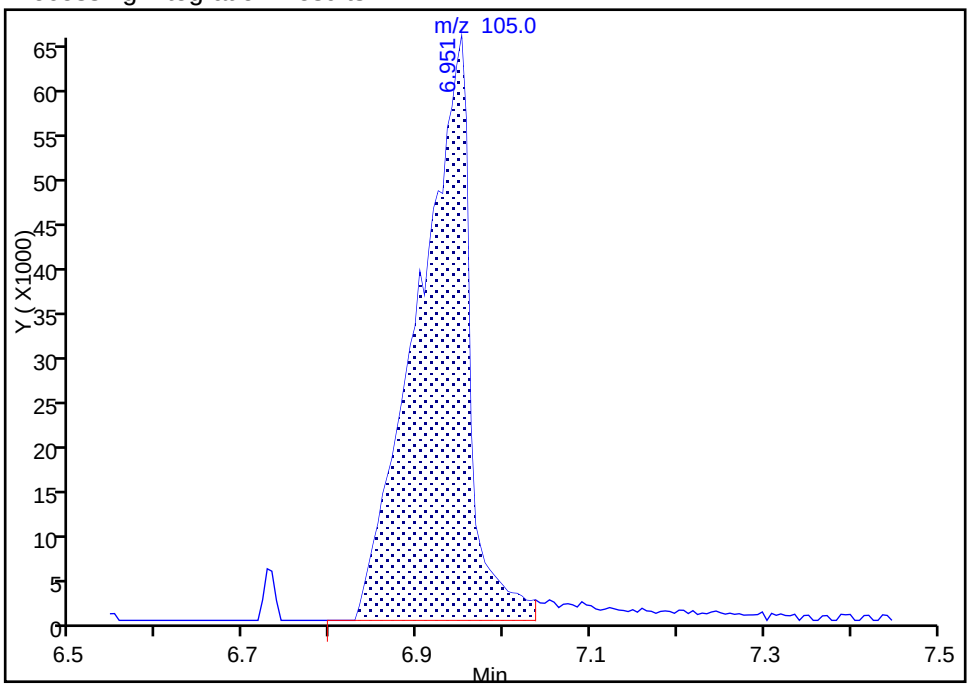
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304365.D
Injection Date: 01-Aug-2017 15:46:30 Instrument ID: HP5973V
Lims ID: ICIS L1 50
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

115 Benzoic acid, CAS: 65-85-0

Signal: 1

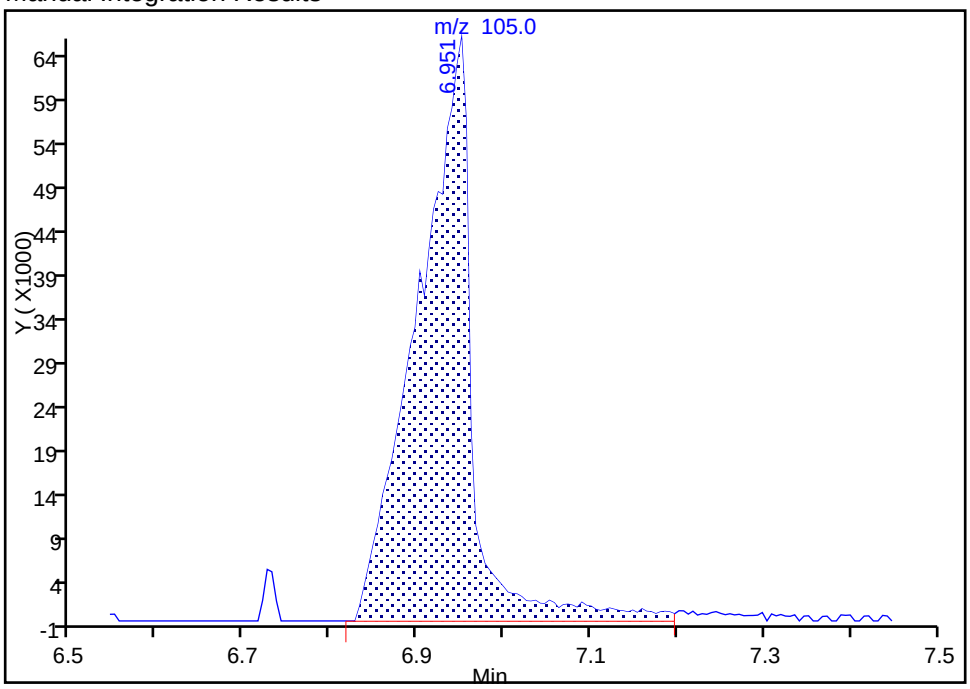
Processing Integration Results

RT: 6.95
Area: 275628
Amount: 205.8566
Amount Units: ng/uL



Manual Integration Results

RT: 6.95
Area: 289922
Amount: 152.2966
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 16:36:31
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

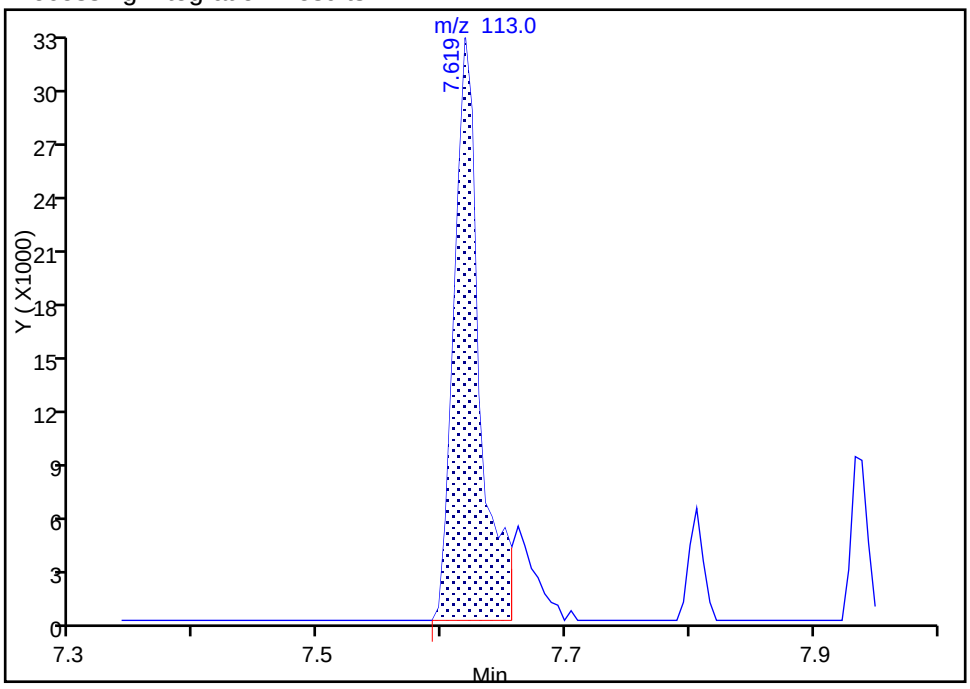
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304365.D
Injection Date: 01-Aug-2017 15:46:30 Instrument ID: HP5973V
Lims ID: ICIS L1 50
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

124 Caprolactam, CAS: 105-60-2

Signal: 1

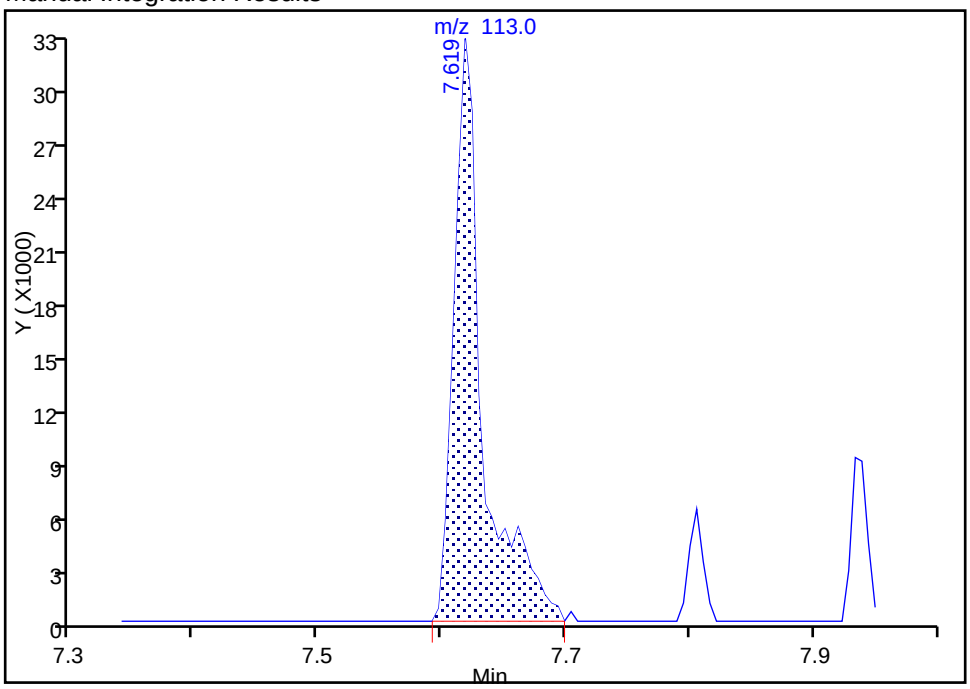
Processing Integration Results

RT: 7.62
Area: 45889
Amount: 52.604301
Amount Units: ng/uL



Manual Integration Results

RT: 7.62
Area: 51573
Amount: 57.054546
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 16:31:36
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304366.D
Lims ID: IC L1 80
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Aug-2017 16:12:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064504-007
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 14:51:10 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 01-Aug-2017 16:38:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.530	5.530	0.000	96	122568	40.0	40.0	
* 2 Naphthalene-d8	136	7.090	7.090	0.000	99	427811	40.0	40.0	
* 3 Acenaphthene-d10	164	9.152	9.152	0.000	96	222954	40.0	40.0	
* 4 Phenanthrene-d10	188	10.781	10.781	0.000	97	414189	40.0	40.0	
* 5 Chrysene-d12	240	13.169	13.175	-0.006	97	443118	40.0	40.0	
* 6 Perylene-d12	264	14.313	14.318	-0.005	99	395467	40.0	40.0	
$ 7 2-Fluorophenol	112	3.756	3.762	-0.006	96	289157	80.0	75.1	
$ 8 Phenol-d5	99	5.103	5.102	0.001	94	338746	80.0	73.7	
$ 9 Nitrobenzene-d5	82	6.224	6.224	0.000	95	295580	80.0	75.3	
$ 10 2-Fluorobiphenyl	172	8.383	8.383	0.000	100	584507	80.0	70.8	
$ 11 2,4,6-Tribromophenol	330	10.060	10.060	0.000	94	94493	80.0	77.7	
$ 12 p-Terphenyl-d14	244	12.277	12.282	-0.005	99	668142	80.0	74.1	
68 1,4-Dioxane	88	1.507	1.512	-0.005	87	119212	80.0	71.5	
69 N-Nitrosodimethylamine	42	1.780	1.790	-0.010	90	176875	80.0	71.7	
70 Pyridine	52	1.822	1.833	-0.011	76	378690	80.0	72.5	
80 Benzaldehyde	77	4.958	4.958	0.000	91	243010	80.0	73.8	
82 Aniline	93	5.108	5.113	-0.005	89	454516	80.0	73.8	
81 Phenol	94	5.119	5.118	0.001	90	374949	80.0	73.0	
83 Bis(2-chloroethyl)ether	93	5.209	5.209	0.000	90	280111	80.0	73.3	
84 2-Chlorophenol	128	5.263	5.263	0.000	96	300600	80.0	74.2	
263 n-Decane	57	5.364	5.370	-0.006	89	508534	80.0	71.8	
87 1,3-Dichlorobenzene	146	5.455	5.455	0.000	97	336245	80.0	71.5	
88 1,4-Dichlorobenzene	146	5.551	5.551	0.000	93	348831	80.0	72.6	
90 Benzyl alcohol	108	5.728	5.728	0.000	89	188753	80.0	77.1	
91 1,2-Dichlorobenzene	146	5.738	5.744	-0.006	96	321352	80.0	73.2	
248 Indene	115	5.856	5.856	0.000	97	1476361	240.0	215.8	
92 2-Methylphenol	108	5.888	5.888	0.000	98	252024	80.0	73.5	
93 2,2'-oxybis[1-chloropropan	45	5.909	5.909	0.000	93	500719	80.0	71.3	
94 Acetophenone	105	6.048	6.048	0.000	93	392359	80.0	74.2	
95 N-Nitrosodi-n-propylamine	70	6.069	6.064	0.005	88	209536	80.0	73.6	
96 4-Methylphenol	108	6.091	6.091	0.000	94	261803	80.0	74.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.155	6.155	0.000	93	122230	80.0	73.5	
102 Nitrobenzene	77	6.251	6.251	0.000	94	301266	80.0	75.4	
106 Isophorone	82	6.550	6.545	0.005	97	534474	80.0	74.1	
107 2-Nitrophenol	139	6.641	6.641	0.000	97	139459	80.0	79.5	
108 2,4-Dimethylphenol	107	6.732	6.727	0.006	98	285284	80.0	73.8	
111 Bis(2-chloroethoxy)methane	93	6.833	6.833	0.000	93	306780	80.0	72.6	
114 2,4-Dichlorophenol	162	6.940	6.940	0.000	96	248846	80.0	75.4	
115 Benzoic acid	105	6.994	6.951	0.043	91	522623	240.0	225.3	M
117 1,2,4-Trichlorobenzene	180	7.031	7.031	0.000	95	266367	80.0	73.1	
118 Naphthalene	128	7.111	7.111	0.000	98	782146	80.0	71.9	
119 4-Chloroaniline	127	7.202	7.197	0.005	96	328383	80.0	72.8	
122 2,6-Dichlorophenol	162	7.207	7.207	0.000	93	235434	80.0	73.7	
121 Hexachlorobutadiene	225	7.288	7.287	0.001	96	174276	80.0	72.1	
124 Caprolactam	113	7.640	7.619	0.021	73	81542	80.0	76.0	M
129 4-Chloro-3-methylphenol	107	7.806	7.806	0.000	96	240492	80.0	76.7	
131 2-Methylnaphthalene	142	7.939	7.939	0.000	91	503928	80.0	72.1	
251 1-Methylnaphthalene	142	8.051	8.051	0.000	97	468717	80.0	72.9	
134 Hexachlorocyclopentadiene	237	8.137	8.137	0.000	97	191152	80.0	76.6	
135 1,2,4,5-Tetrachlorobenzene	216	8.142	8.142	0.000	98	267935	80.0	71.8	
137 2,4,6-Trichlorophenol	196	8.287	8.286	0.001	94	174657	80.0	74.5	
138 2,4,5-Trichlorophenol	196	8.329	8.329	0.000	94	180083	80.0	75.1	
140 1,1'-Biphenyl	154	8.495	8.495	0.000	96	636536	80.0	71.0	
141 2-Chloronaphthalene	162	8.506	8.505	0.001	98	509142	80.0	71.4	
143 2-Nitroaniline	65	8.639	8.639	0.000	79	179312	80.0	77.7	
146 Dimethyl phthalate	163	8.874	8.874	0.000	98	599472	80.0	71.9	
148 1,3-Dinitrobenzene	168	8.896	8.895	0.001	84	92652	80.0	73.9	
149 2,6-Dinitrotoluene	165	8.933	8.933	0.000	92	137593	80.0	77.5	
150 Acenaphthylene	152	8.981	8.981	0.000	98	740160	80.0	71.4	
151 3-Nitroaniline	138	9.125	9.120	0.005	89	138871	80.0	76.7	
152 Acenaphthene	153	9.189	9.189	0.000	95	491834	80.0	71.7	
153 2,4-Dinitrophenol	184	9.248	9.248	0.000	86	153661	160.0	147.4	
154 4-Nitrophenol	109	9.360	9.355	0.005	95	185542	160.0	147.6	
155 Dibenzofuran	168	9.392	9.392	0.000	95	710717	80.0	71.1	
156 2,4-Dinitrotoluene	165	9.403	9.398	0.005	91	180685	80.0	77.0	
158 2,3,4,6-Tetrachlorophenol	232	9.547	9.553	-0.006	73	150815	80.0	78.2	
161 Diethyl phthalate	149	9.702	9.702	0.000	98	608051	80.0	72.5	
256 Hexadecane	57	9.740	9.740	0.000	71	516892	80.0	71.9	
162 Fluorene	166	9.788	9.788	0.000	95	572209	80.0	71.8	
163 4-Chlorophenyl phenyl ethe	204	9.804	9.804	0.000	95	281639	80.0	70.6	
164 4-Nitroaniline	138	9.841	9.830	0.011	80	136275	80.0	76.0	
165 4,6-Dinitro-2-methylphenol	198	9.879	9.873	0.005	82	203313	160.0	149.1	
168 N-Nitrosodiphenylamine	169	9.943	9.943	0.000	64	414048	80.0	72.5	
169 Diphenylamine	169	9.943	9.943	0.000	94	414048	68.4	62.0	
171 Azobenzene	77	9.980	9.980	0.000	98	587494	80.0	73.1	
170 1,2-Diphenylhydrazine	77	9.980	9.980	0.000	96	587494	80.0	72.7	
175 4-Bromophenyl phenyl ether	248	10.333	10.338	-0.005	68	175085	80.0	72.2	
179 Hexachlorobenzene	284	10.397	10.402	-0.005	95	194021	80.0	72.2	
180 Atrazine	200	10.536	10.536	0.000	91	163842	80.0	71.9	
183 Pentachlorophenol	266	10.610	10.610	0.000	92	216101	160.0	149.5	
265 n-Octadecane	57	10.733	10.733	0.000	84	513350	80.0	71.9	
188 Phenanthrene	178	10.808	10.808	0.000	97	833254	80.0	71.4	
189 Anthracene	178	10.856	10.856	0.000	98	863902	80.0	70.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.027	11.027	0.000	97	747527	80.0	71.1	
195 Di-n-butyl phthalate	149	11.390	11.390	0.000	100	979749	80.0	72.5	
201 Fluoranthene	202	11.930	11.930	0.000	97	913849	80.0	71.3	
202 Benzidine	184	12.063	12.063	0.000	99	578373	80.0	75.0	
204 Pyrene	202	12.133	12.133	0.000	98	955856	80.0	76.0	
210 Butyl benzyl phthalate	149	12.705	12.704	0.001	99	433338	80.0	75.7	
215 3,3'-Dichlorobenzidine	252	13.143	13.148	-0.005	74	330464	80.0	73.1	
217 Benzo[a]anthracene	228	13.164	13.164	0.000	97	928218	80.0	73.3	
216 Bis(2-ethylhexyl) phthalat	149	13.191	13.191	0.000	97	602661	80.0	74.9	
218 Chrysene	228	13.196	13.196	0.000	97	822195	80.0	70.1	
220 Di-n-octyl phthalate	149	13.709	13.709	0.000	99	1019215	80.0	74.4	
221 Benzo[b]fluoranthene	252	14.029	14.029	0.000	92	802818	80.0	71.1	
222 Benzo[k]fluoranthene	252	14.045	14.051	-0.006	99	909341	80.0	77.8	
225 Benzo[a]pyrene	252	14.275	14.275	0.000	76	767118	80.0	73.0	
227 Indeno[1,2,3-cd]pyrene	276	15.189	15.189	0.000	98	880433	80.0	74.1	
228 Dibenz(a,h)anthracene	278	15.194	15.194	0.000	90	733787	80.0	73.4	
229 Benzo[g,h,i]perylene	276	15.434	15.434	0.000	98	745487	80.0	74.4	
S 232 Total Cresols	1				0			147.9	
S 233 3-Methylphenol	1				0			74.5	
S 234 3 & 4 Methylphenol	108				0			74.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00491	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00037	Amount Added: 20.00	Units: uL	Run Reagent

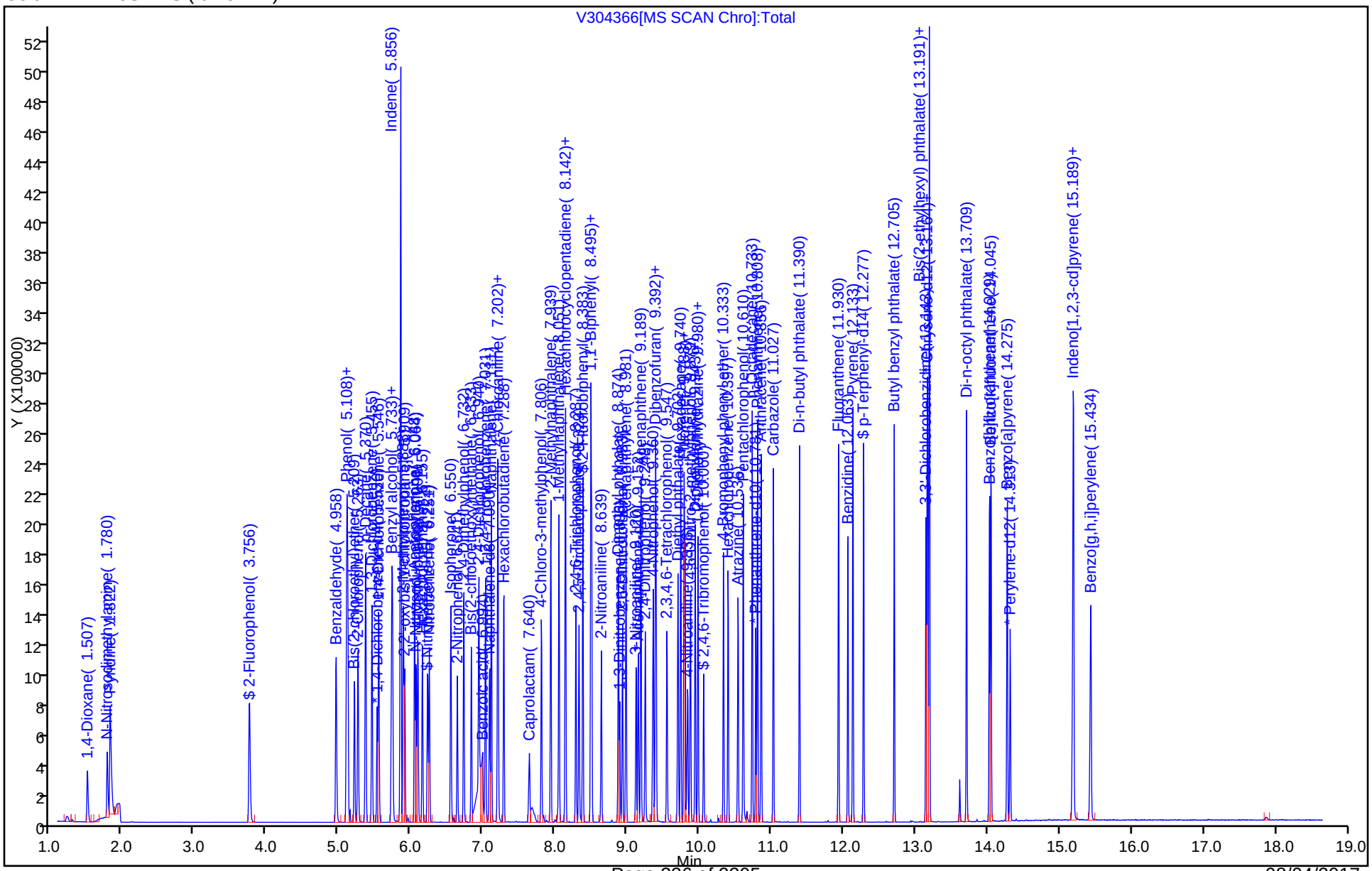
Report Date: 02-Aug-2017 14:51:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304366.D

Injection Date:	01-Aug-2017 16:12:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	IC L1 80			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

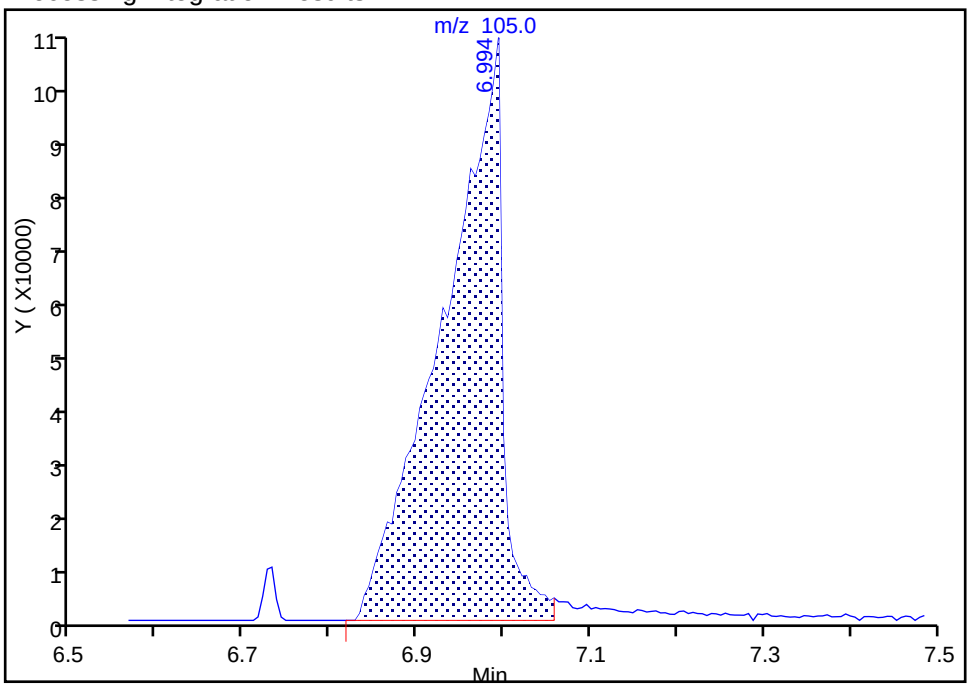
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304366.D
Injection Date: 01-Aug-2017 16:12:30 Instrument ID: HP5973V
Lims ID: IC L1 80
Client ID:
Operator ID: PJQ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

115 Benzoic acid, CAS: 65-85-0

Signal: 1

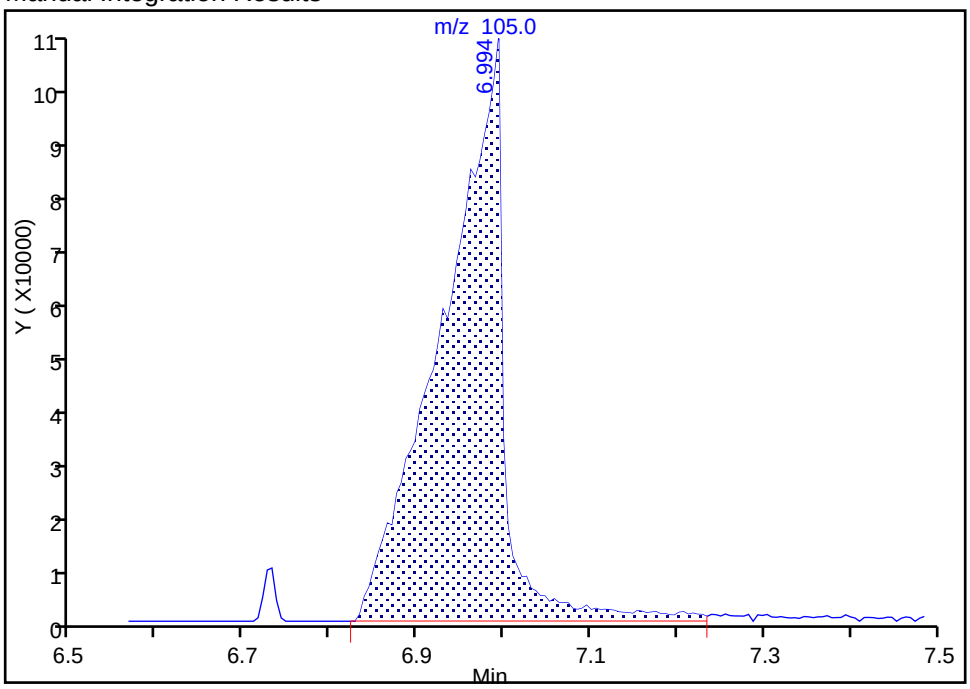
Processing Integration Results

RT: 6.99
Area: 504004
Amount: 288.7035
Amount Units: ng/uL



Manual Integration Results

RT: 6.99
Area: 522623
Amount: 225.3273
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 16:37:37
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

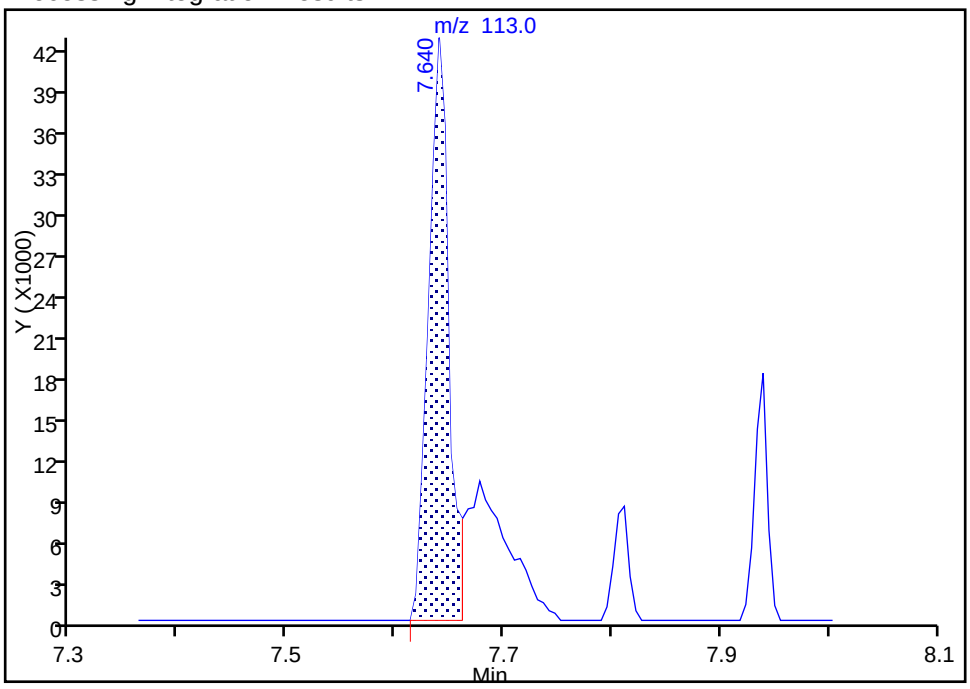
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304366.D
Injection Date: 01-Aug-2017 16:12:30 Instrument ID: HP5973V
Lims ID: IC L1 80
Client ID:
Operator ID: PJQ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

124 Caprolactam, CAS: 105-60-2

Signal: 1

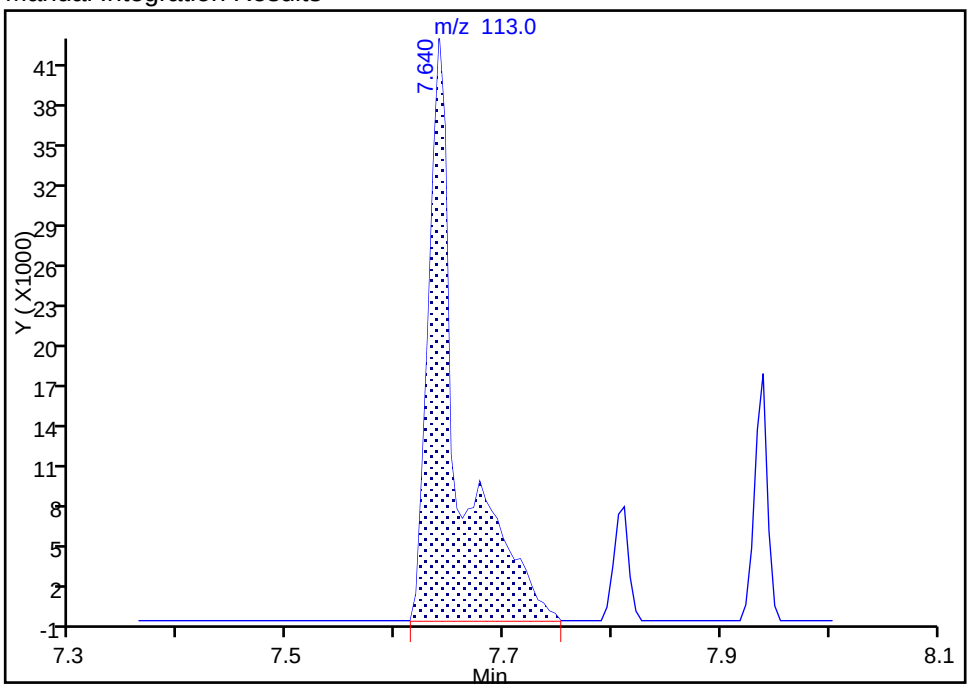
Processing Integration Results

RT: 7.64
Area: 55302
Amount: 56.231072
Amount Units: ng/uL



Manual Integration Results

RT: 7.64
Area: 81542
Amount: 75.967280
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 16:37:49
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304367.D
Lims ID: IC L1 100
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Aug-2017 16:38:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064504-008
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 14:51:13 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 01-Aug-2017 17:16:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.530	5.530	0.000	96	111980	40.0	40.0	
* 2 Naphthalene-d8	136	7.090	7.090	0.000	99	381620	40.0	40.0	
* 3 Acenaphthene-d10	164	9.152	9.152	0.000	98	192156	40.0	40.0	
* 4 Phenanthrene-d10	188	10.781	10.781	0.000	97	363572	40.0	40.0	
* 5 Chrysene-d12	240	13.175	13.175	0.000	97	415947	40.0	40.0	
* 6 Perylene-d12	264	14.318	14.318	0.000	99	404217	40.0	40.0	
$ 7 2-Fluorophenol	112	3.756	3.762	-0.006	96	339783	100.0	96.5	
$ 8 Phenol-d5	99	5.102	5.102	0.000	94	395950	100.0	94.2	
$ 9 Nitrobenzene-d5	82	6.230	6.224	0.006	95	347754	100.0	99.4	
$ 10 2-Fluorobiphenyl	172	8.383	8.383	0.000	100	670427	100.0	94.2	
$ 11 2,4,6-Tribromophenol	330	10.060	10.060	0.000	94	109433	100.0	102.5	
$ 12 p-Terphenyl-d14	244	12.282	12.282	0.000	99	793541	100.0	93.8	
68 1,4-Dioxane	88	1.507	1.512	-0.005	89	142106	100.0	93.3	
69 N-Nitrosodimethylamine	42	1.780	1.790	-0.010	91	205648	100.0	91.2	
70 Pyridine	52	1.822	1.833	-0.011	75	444076	100.0	93.1	
80 Benzaldehyde	77	4.958	4.958	0.000	92	278590	100.0	92.7	
82 Aniline	93	5.113	5.113	0.000	87	511599	100.0	90.9	
81 Phenol	94	5.124	5.118	0.006	91	436959	100.0	93.1	
83 Bis(2-chloroethyl)ether	93	5.215	5.209	0.006	90	318577	100.0	91.2	
84 2-Chlorophenol	128	5.263	5.263	0.000	97	347852	100.0	93.9	
263 n-Decane	57	5.370	5.370	0.000	90	594869	100.0	91.9	
87 1,3-Dichlorobenzene	146	5.455	5.455	0.000	97	402226	100.0	93.7	
88 1,4-Dichlorobenzene	146	5.551	5.551	0.000	93	407162	100.0	92.8	
90 Benzyl alcohol	108	5.727	5.728	-0.001	89	208420	100.0	93.1	
91 1,2-Dichlorobenzene	146	5.738	5.744	-0.006	96	372776	100.0	93.0	
248 Indene	115	5.856	5.856	0.000	97	1703139	300.0	279.1	
92 2-Methylphenol	108	5.888	5.888	0.000	98	287858	100.0	91.9	
93 2,2'-oxybis[1-chloropropan	45	5.909	5.909	0.000	93	567937	100.0	88.6	
94 Acetophenone	105	6.048	6.048	0.000	93	447807	100.0	92.7	
95 N-Nitrosodi-n-propylamine	70	6.069	6.064	0.005	91	240868	100.0	92.6	
96 4-Methylphenol	108	6.096	6.091	0.005	92	301168	100.0	93.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.155	6.155	0.000	93	144949	100.0	95.4	
102 Nitrobenzene	77	6.251	6.251	0.000	94	351236	100.0	98.5	
106 Isophorone	82	6.550	6.545	0.005	97	607083	100.0	94.3	
107 2-Nitrophenol	139	6.641	6.641	0.000	96	161239	100.0	103.1	
108 2,4-Dimethylphenol	107	6.732	6.727	0.006	98	327397	100.0	95.0	
111 Bis(2-chloroethoxy)methane	93	6.833	6.833	0.000	92	351451	100.0	93.3	
114 2,4-Dichlorophenol	162	6.940	6.940	0.000	96	279812	100.0	95.1	
115 Benzoic acid	105	7.004	6.951	0.053	90	610585	300.0	291.6	
117 1,2,4-Trichlorobenzene	180	7.031	7.031	0.000	94	313852	100.0	96.5	
118 Naphthalene	128	7.111	7.111	0.000	98	894479	100.0	92.1	
119 4-Chloroaniline	127	7.202	7.197	0.005	94	368635	100.0	91.7	
122 2,6-Dichlorophenol	162	7.207	7.207	0.000	90	274351	100.0	96.3	
121 Hexachlorobutadiene	225	7.287	7.287	0.000	95	202573	100.0	93.9	
124 Caprolactam	113	7.645	7.619	0.026	74	95180	100.0	99.4	M
129 4-Chloro-3-methylphenol	107	7.811	7.806	0.005	96	270201	100.0	96.6	
131 2-Methylnaphthalene	142	7.939	7.939	0.000	91	582976	100.0	93.5	
251 1-Methylnaphthalene	142	8.051	8.051	0.000	98	527239	100.0	92.0	
134 Hexachlorocyclopentadiene	237	8.142	8.137	0.005	96	224574	100.0	104.4	
135 1,2,4,5-Tetrachlorobenzene	216	8.142	8.142	0.000	97	302515	100.0	94.1	
137 2,4,6-Trichlorophenol	196	8.286	8.286	0.000	94	199361	100.0	98.7	
138 2,4,5-Trichlorophenol	196	8.329	8.329	0.000	95	212855	100.0	103.0	
140 1,1'-Biphenyl	154	8.495	8.495	0.000	96	720518	100.0	93.3	
141 2-Chloronaphthalene	162	8.505	8.505	0.000	98	576704	100.0	93.8	
143 2-Nitroaniline	65	8.639	8.639	0.000	79	202702	100.0	101.9	
146 Dimethyl phthalate	163	8.879	8.874	0.005	98	673555	100.0	93.7	
148 1,3-Dinitrobenzene	168	8.895	8.895	0.000	86	110733	100.0	98.3	
149 2,6-Dinitrotoluene	165	8.933	8.933	0.000	93	160453	100.0	104.9	
150 Acenaphthylene	152	8.981	8.981	0.000	98	839105	100.0	93.9	
151 3-Nitroaniline	138	9.125	9.120	0.005	87	157095	100.0	100.7	
152 Acenaphthene	153	9.189	9.189	0.000	94	559439	100.0	94.6	
153 2,4-Dinitrophenol	184	9.253	9.248	0.005	86	181137	200.0	198.9	
154 4-Nitrophenol	109	9.366	9.355	0.011	94	217208	200.0	198.8	
155 Dibenzofuran	168	9.392	9.392	0.000	95	804990	100.0	93.4	
156 2,4-Dinitrotoluene	165	9.403	9.398	0.005	91	208307	100.0	103.0	
158 2,3,4,6-Tetrachlorophenol	232	9.552	9.553	-0.001	73	175192	100.0	105.4	
161 Diethyl phthalate	149	9.702	9.702	0.000	98	699558	100.0	96.8	
256 Hexadecane	57	9.739	9.740	-0.001	71	582271	100.0	93.9	
162 Fluorene	166	9.788	9.788	0.000	93	642270	100.0	93.5	
163 4-Chlorophenyl phenyl ethe	204	9.804	9.804	0.000	94	321127	100.0	93.4	
164 4-Nitroaniline	138	9.841	9.830	0.011	80	159438	100.0	103.2	
165 4,6-Dinitro-2-methylphenol	198	9.878	9.873	0.005	80	237436	200.0	196.8	
169 Diphenylamine	169	9.942	9.943	-0.001	93	467043	85.5	79.7	
168 N-Nitrosodiphenylamine	169	9.942	9.943	-0.001	64	467043	100.0	93.2	
170 1,2-Diphenylhydrazine	77	9.980	9.980	0.000	96	658479	100.0	94.5	
171 Azobenzene	77	9.980	9.980	0.000	98	658479	100.0	93.3	
175 4-Bromophenyl phenyl ether	248	10.338	10.338	0.000	67	201812	100.0	94.8	
179 Hexachlorobenzene	284	10.402	10.402	0.000	95	222637	100.0	94.3	
180 Atrazine	200	10.541	10.536	0.005	91	181291	100.0	92.3	
183 Pentachlorophenol	266	10.610	10.610	0.000	92	253403	200.0	197.9	
265 n-Octadecane	57	10.733	10.733	0.000	84	581284	100.0	92.8	
188 Phenanthrene	178	10.808	10.808	0.000	97	938166	100.0	91.6	
189 Anthracene	178	10.861	10.856	0.005	97	1000613	100.0	93.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.027	11.027	0.000	97	864458	100.0	93.7	
195 Di-n-butyl phthalate	149	11.390	11.390	0.000	100	1118332	100.0	94.3	
201 Fluoranthene	202	11.935	11.930	0.005	97	1063814	100.0	94.5	
202 Benzidine	184	12.063	12.063	0.000	99	660849	100.0	91.3	
204 Pyrene	202	12.133	12.133	0.000	98	1101819	100.0	93.3	
210 Butyl benzyl phthalate	149	12.704	12.704	0.000	98	523013	100.0	97.4	
215 3,3'-Dichlorobenzidine	252	13.148	13.148	0.000	74	416699	100.0	98.2	
217 Benzo[a]anthracene	228	13.164	13.164	0.000	97	1122233	100.0	94.4	
216 Bis(2-ethylhexyl) phthalat	149	13.191	13.191	0.000	96	732288	100.0	96.9	
218 Chrysene	228	13.196	13.196	0.000	97	1001102	100.0	90.9	
220 Di-n-octyl phthalate	149	13.709	13.709	0.000	99	1267596	100.0	98.6	
221 Benzo[b]fluoranthene	252	14.029	14.029	0.000	96	1092836	100.0	94.7	
222 Benzo[k]fluoranthene	252	14.051	14.051	0.000	98	1104782	100.0	92.4	
225 Benzo[a]pyrene	252	14.275	14.275	0.000	76	1008503	100.0	93.9	
227 Indeno[1,2,3-cd]pyrene	276	15.194	15.189	0.005	98	1108658	100.0	91.3	
228 Dibenz(a,h)anthracene	278	15.199	15.194	0.005	87	932386	100.0	91.2	
229 Benzo[g,h,i]perylene	276	15.434	15.434	0.000	98	936831	100.0	91.5	
S 232 Total Cresols	1				0			185.6	
S 234 3 & 4 Methylphenol	108				0			93.7	
S 233 3-Methylphenol	1				0			93.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00492	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00037	Amount Added: 20.00	Units: uL	Run Reagent

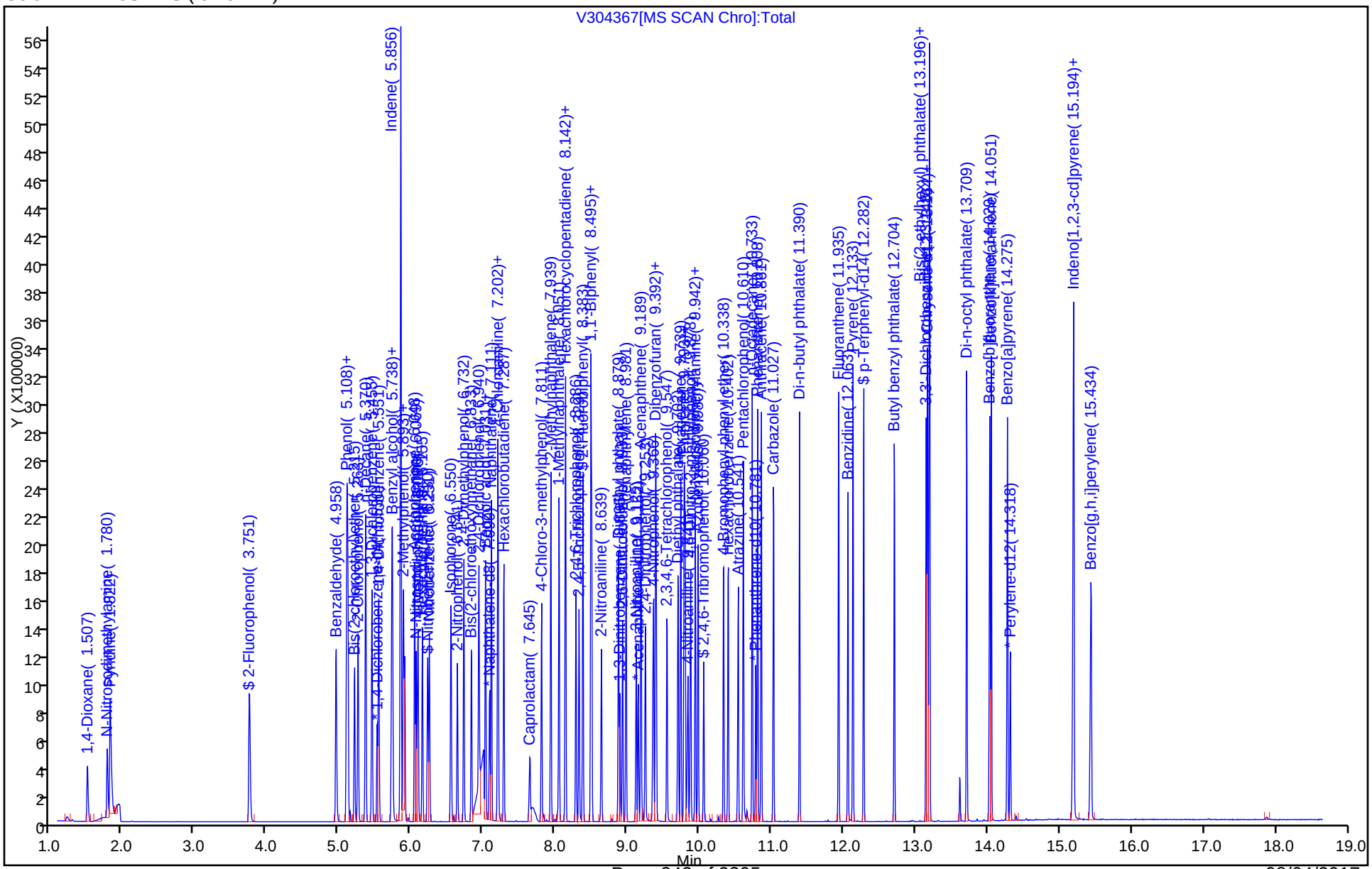
Report Date: 02-Aug-2017 14:51:14 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304367.D

Injection Date:	01-Aug-2017 16:38:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	IC L1 100			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

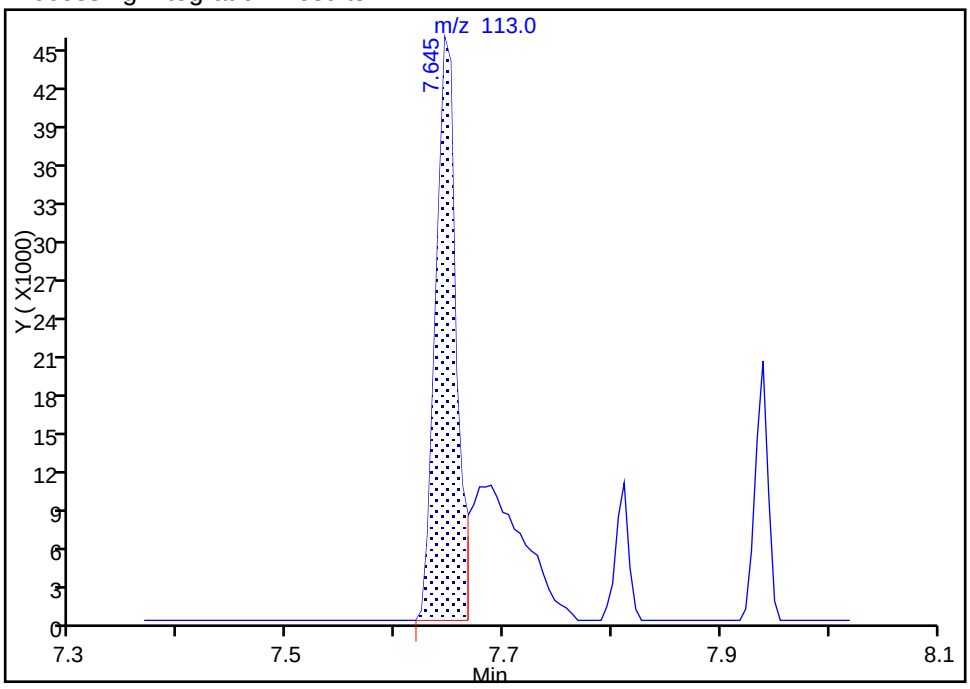
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304367.D
Injection Date: 01-Aug-2017 16:38:30 Instrument ID: HP5973V
Lims ID: IC L1 100
Client ID:
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

124 Caprolactam, CAS: 105-60-2

Signal: 1

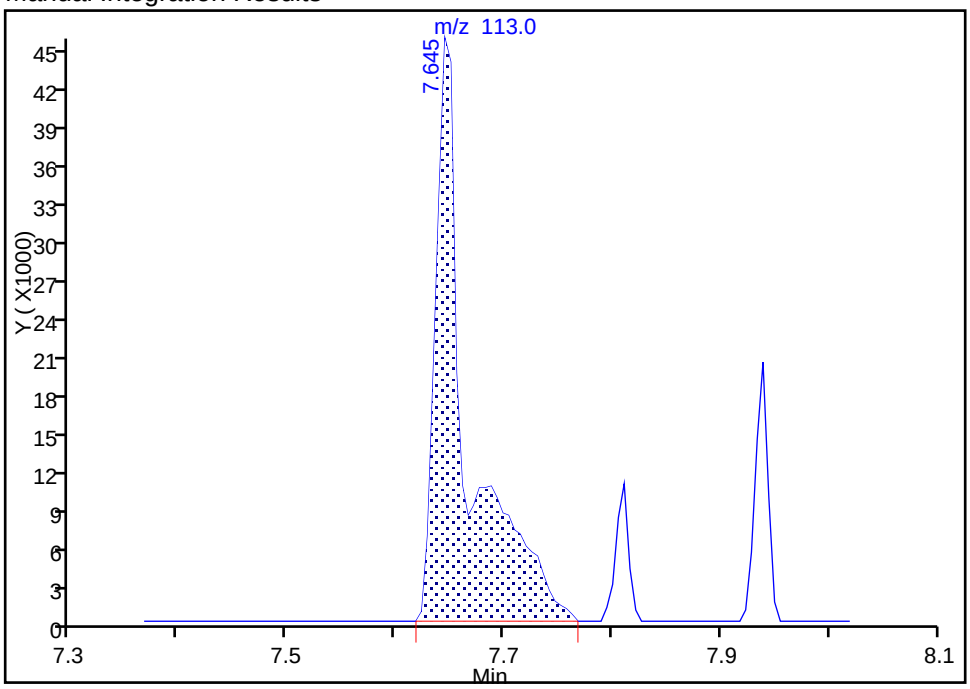
Processing Integration Results

RT: 7.65
Area: 60550
Amount: 68.693638
Amount Units: ng/uL



Manual Integration Results

RT: 7.65
Area: 95180
Amount: 99.405803
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 17:11:05
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D
Lims ID: IC L1 120
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 01-Aug-2017 17:04:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064504-009
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 14:51:16 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 01-Aug-2017 17:39:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.530	5.530	0.000	97	109390	40.0	40.0	
* 2 Naphthalene-d8	136	7.090	7.090	0.000	99	385205	40.0	40.0	
* 3 Acenaphthene-d10	164	9.152	9.152	0.000	96	197890	40.0	40.0	
* 4 Phenanthrene-d10	188	10.787	10.781	0.006	97	372327	40.0	40.0	
* 5 Chrysene-d12	240	13.175	13.175	0.000	97	396591	40.0	40.0	
* 6 Perylene-d12	264	14.318	14.318	0.000	99	373705	40.0	40.0	
$ 7 2-Fluorophenol	112	3.756	3.762	-0.006	95	412576	120.0	120.0	
$ 8 Phenol-d5	99	5.108	5.102	0.006	95	476310	120.0	116.0	
$ 9 Nitrobenzene-d5	82	6.230	6.224	0.006	95	435307	120.0	123.2	
$ 10 2-Fluorobiphenyl	172	8.388	8.383	0.005	100	841417	120.0	114.8	
$ 11 2,4,6-Tribromophenol	330	10.065	10.060	0.005	94	140959	120.0	128.9	
$ 12 p-Terphenyl-d14	244	12.283	12.282	0.000	99	968563	120.0	120.0	
68 1,4-Dioxane	88	1.507	1.512	-0.005	88	170054	120.0	114.3	
69 N-Nitrosodimethylamine	42	1.780	1.790	-0.010	90	253528	120.0	115.1	
70 Pyridine	52	1.822	1.833	-0.011	76	540025	120.0	115.9	M
80 Benzaldehyde	77	4.958	4.958	0.000	91	332649	120.0	113.3	
82 Aniline	93	5.113	5.113	0.000	91	628041	120.0	114.3	
81 Phenol	94	5.124	5.118	0.006	93	531343	120.0	115.8	
83 Bis(2-chloroethyl)ether	93	5.215	5.209	0.006	90	395791	120.0	116.0	
84 2-Chlorophenol	128	5.263	5.263	0.000	95	417588	120.0	115.4	
263 n-Decane	57	5.370	5.370	0.000	90	714109	120.0	113.0	
87 1,3-Dichlorobenzene	146	5.455	5.455	0.000	97	486686	120.0	116.0	
88 1,4-Dichlorobenzene	146	5.551	5.551	0.000	92	486190	120.0	113.5	
90 Benzyl alcohol	108	5.733	5.728	0.005	89	262466	120.0	120.1	
91 1,2-Dichlorobenzene	146	5.744	5.744	0.000	96	447179	120.0	114.2	
248 Indene	115	5.861	5.856	0.005	96	2048748	360.0	332.6	
92 2-Methylphenol	108	5.893	5.888	0.005	97	352867	120.0	115.3	
93 2,2'-oxybis[1-chloropropan	45	5.909	5.909	0.000	92	690586	120.0	110.3	
94 Acetophenone	105	6.053	6.048	0.005	93	551159	120.0	116.8	
95 N-Nitrosodi-n-propylamine	70	6.075	6.064	0.011	88	300945	120.0	118.4	
96 4-Methylphenol	108	6.096	6.091	0.005	92	362220	120.0	115.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.155	6.155	0.000	92	174778	120.0	117.8	
102 Nitrobenzene	77	6.256	6.251	0.005	95	434995	120.0	120.9	
106 Isophorone	82	6.556	6.545	0.011	97	764346	120.0	117.6	
107 2-Nitrophenol	139	6.646	6.641	0.005	98	206654	120.0	130.9	
108 2,4-Dimethylphenol	107	6.732	6.727	0.006	98	409994	120.0	117.9	
111 Bis(2-chloroethoxy)methane	93	6.839	6.833	0.006	93	437606	120.0	115.1	
114 2,4-Dichlorophenol	162	6.940	6.940	0.000	96	348963	120.0	117.5	
115 Benzoic acid	105	7.031	6.951	0.080	50	822557	360.0	385.4	M
117 1,2,4-Trichlorobenzene	180	7.036	7.031	0.005	94	377166	120.0	114.9	
118 Naphthalene	128	7.117	7.111	0.006	98	1104231	120.0	112.7	
119 4-Chloroaniline	127	7.207	7.197	0.010	94	461333	120.0	113.6	
122 2,6-Dichlorophenol	162	7.213	7.207	0.006	95	330344	120.0	114.9	
121 Hexachlorobutadiene	225	7.288	7.287	0.001	96	256834	120.0	118.0	
124 Caprolactam	113	7.667	7.619	0.048	74	120084	120.0	124.2	M
129 4-Chloro-3-methylphenol	107	7.816	7.806	0.010	96	339489	120.0	120.2	
131 2-Methylnaphthalene	142	7.939	7.939	0.000	91	719037	120.0	114.3	
251 1-Methylnaphthalene	142	8.057	8.051	0.006	98	659690	120.0	114.0	
134 Hexachlorocyclopentadiene	237	8.142	8.137	0.005	96	288636	120.0	130.3	
135 1,2,4,5-Tetrachlorobenzene	216	8.148	8.142	0.006	98	378782	120.0	114.4	
137 2,4,6-Trichlorophenol	196	8.292	8.286	0.006	94	254938	120.0	122.5	
138 2,4,5-Trichlorophenol	196	8.335	8.329	0.006	94	267290	120.0	125.5	
140 1,1'-Biphenyl	154	8.495	8.495	0.000	96	893024	120.0	112.3	
141 2-Chloronaphthalene	162	8.511	8.505	0.006	98	721902	120.0	114.0	
143 2-Nitroaniline	65	8.644	8.639	0.005	79	264646	120.0	129.2	
146 Dimethyl phthalate	163	8.885	8.874	0.011	98	865633	120.0	116.9	
148 1,3-Dinitrobenzene	168	8.901	8.895	0.006	83	143730	120.0	125.8	
149 2,6-Dinitrotoluene	165	8.938	8.933	0.005	92	201372	120.0	127.8	
150 Acenaphthylene	152	8.986	8.981	0.005	98	1057695	120.0	114.9	
151 3-Nitroaniline	138	9.131	9.120	0.011	87	201630	120.0	125.5	
152 Acenaphthene	153	9.195	9.189	0.006	95	706799	120.0	116.0	
153 2,4-Dinitrophenol	184	9.259	9.248	0.011	85	240736	240.0	254.6	
154 4-Nitrophenol	109	9.371	9.355	0.016	93	281577	240.0	249.0	
155 Dibenzofuran	168	9.398	9.392	0.006	95	1014135	120.0	114.3	
156 2,4-Dinitrotoluene	165	9.408	9.398	0.010	91	265467	120.0	127.5	
158 2,3,4,6-Tetrachlorophenol	232	9.553	9.553	0.000	74	224763	120.0	131.3	
161 Diethyl phthalate	149	9.708	9.702	0.006	97	885719	120.0	119.0	
256 Hexadecane	57	9.745	9.740	0.005	71	726039	120.0	113.7	
162 Fluorene	166	9.793	9.788	0.005	95	806157	120.0	114.0	
163 4-Chlorophenyl phenyl ethe	204	9.809	9.804	0.005	93	404799	120.0	114.3	
164 4-Nitroaniline	138	9.852	9.830	0.022	80	199221	120.0	125.2	
165 4,6-Dinitro-2-methylphenol	198	9.889	9.873	0.016	80	307640	240.0	247.7	
168 N-Nitrosodiphenylamine	169	9.948	9.943	0.005	64	591617	120.0	115.3	
169 Diphenylamine	169	9.948	9.943	0.005	94	591617	102.6	98.6	
171 Azobenzene	77	9.985	9.980	0.005	99	837620	120.0	115.9	
170 1,2-Diphenylhydrazine	77	9.985	9.980	0.005	96	837620	120.0	116.8	
175 4-Bromophenyl phenyl ether	248	10.338	10.338	0.000	69	256995	120.0	117.9	
179 Hexachlorobenzene	284	10.402	10.402	0.000	94	281498	120.0	116.5	
180 Atrazine	200	10.546	10.536	0.010	92	235135	120.0	116.2	
183 Pentachlorophenol	266	10.616	10.610	0.006	92	324794	240.0	246.3	
265 n-Octadecane	57	10.739	10.733	0.006	85	718326	120.0	111.9	
188 Phenanthrene	178	10.813	10.808	0.005	97	1189461	120.0	113.4	
189 Anthracene	178	10.861	10.856	0.005	98	1250421	120.0	113.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.032	11.027	0.005	97	1076340	120.0	113.9	
195 Di-n-butyl phthalate	149	11.396	11.390	0.006	100	1417900	120.0	116.7	
201 Fluoranthene	202	11.935	11.930	0.005	97	1317925	120.0	114.3	
202 Benzidine	184	12.063	12.063	0.000	99	800519	120.0	116.0	
204 Pyrene	202	12.138	12.133	0.005	98	1344284	120.0	119.4	
210 Butyl benzyl phthalate	149	12.710	12.704	0.006	98	632686	120.0	123.6	
215 3,3'-Dichlorobenzidine	252	13.148	13.148	0.000	74	482428	120.0	119.2	
217 Benzo[a]anthracene	228	13.169	13.164	0.005	97	1299416	120.0	114.6	
216 Bis(2-ethylhexyl) phthalat	149	13.196	13.191	0.005	97	856161	120.0	118.8	
218 Chrysene	228	13.201	13.196	0.005	97	1166729	120.0	111.1	
220 Di-n-octyl phthalate	149	13.714	13.709	0.005	99	1436550	120.0	117.2	
221 Benzo[b]fluoranthene	252	14.035	14.029	0.006	96	1311347	120.0	123.0	
222 Benzo[k]fluoranthene	252	14.056	14.051	0.005	99	1176247	120.0	106.4	
225 Benzo[a]pyrene	252	14.281	14.275	0.005	76	1157057	120.0	116.5	
227 Indeno[1,2,3-cd]pyrene	276	15.199	15.189	0.010	98	1375355	120.0	122.5	
228 Dibenz(a,h)anthracene	278	15.205	15.194	0.011	90	1146845	120.0	121.4	
229 Benzo[g,h,i]perylene	276	15.445	15.434	0.011	98	1193524	120.0	126.0	
S 232 Total Cresols	1				0			230.7	
S 233 3-Methylphenol	1				0			115.4	
S 234 3 & 4 Methylphenol	108				0			115.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00493	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00037	Amount Added: 20.00	Units: uL	Run Reagent

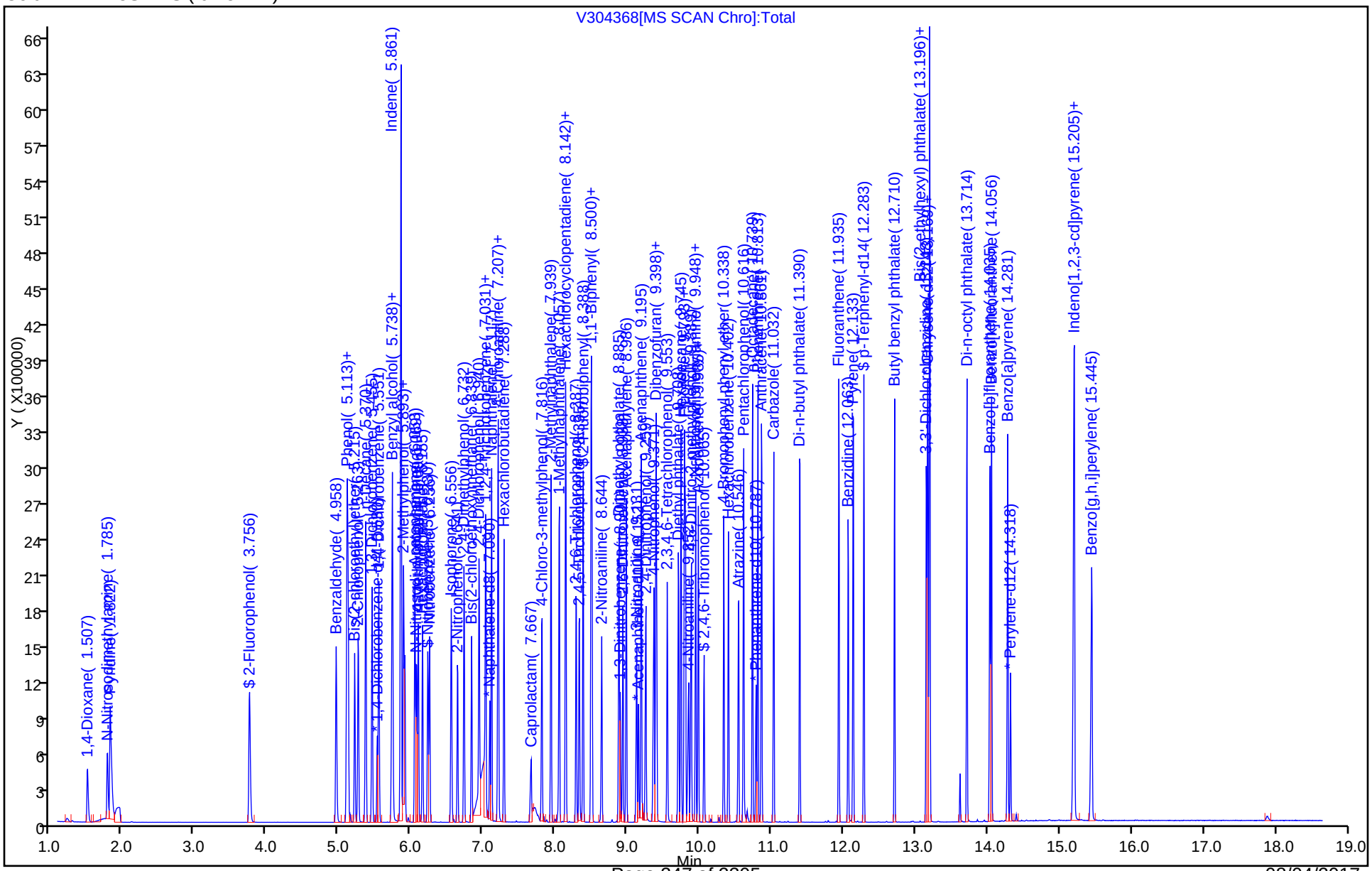
Report Date: 02-Aug-2017 14:51:17 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Injection Date:	01-Aug-2017 17:04:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	IC L1 120			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

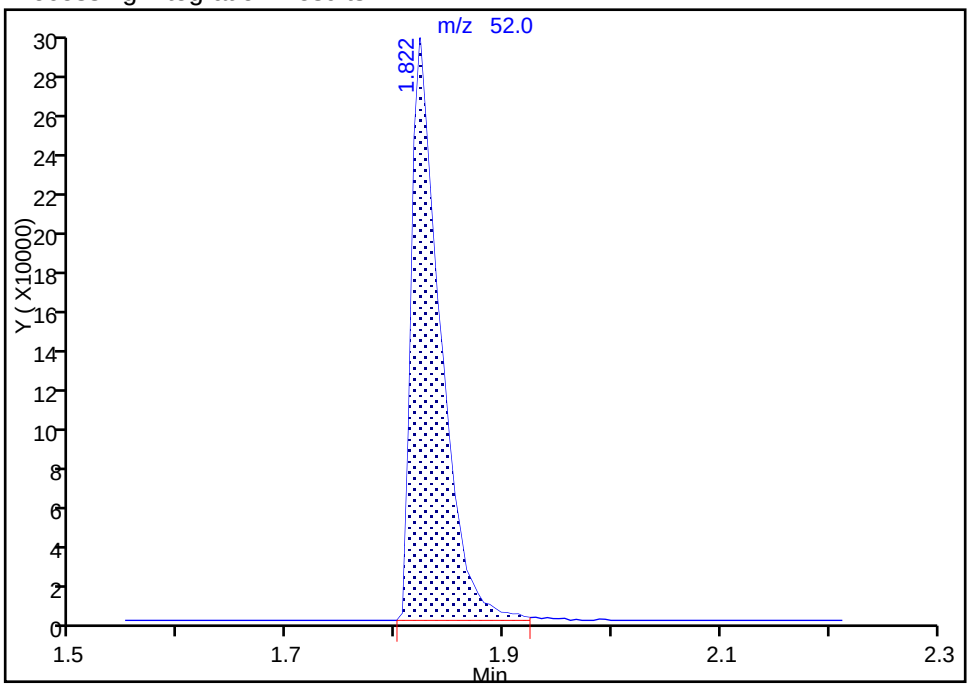
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D
Injection Date: 01-Aug-2017 17:04:30 Instrument ID: HP5973V
Lims ID: IC L1 120
Client ID:
Operator ID: PJQ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

70 Pyridine, CAS: 110-86-1

Signal: 1

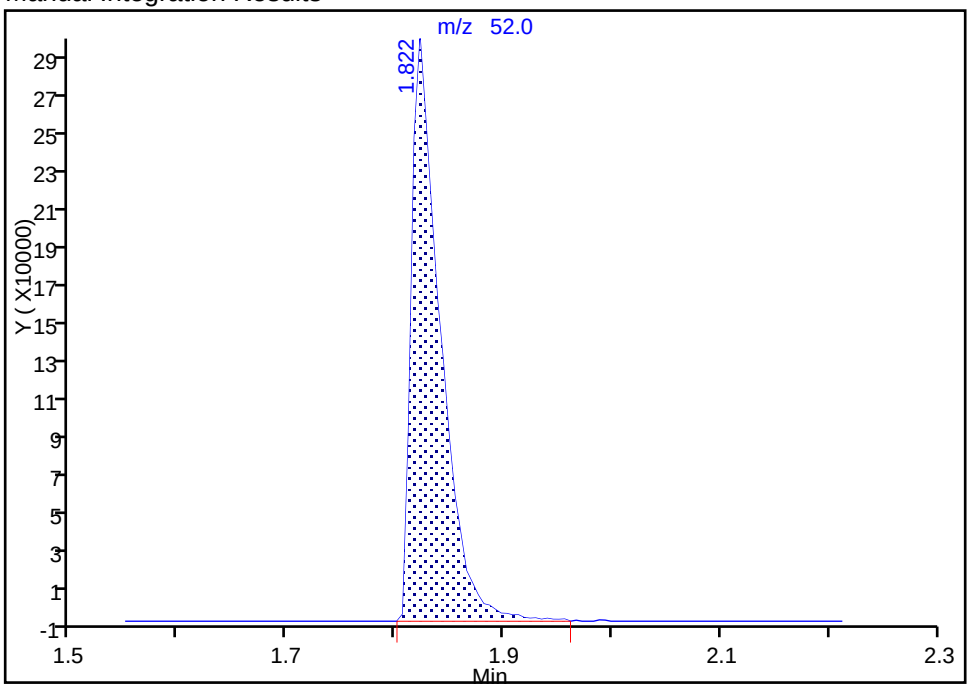
Processing Integration Results

RT: 1.82
Area: 537730
Amount: 115.4428
Amount Units: ng/uL



Manual Integration Results

RT: 1.82
Area: 540025
Amount: 115.8562
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 17:29:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

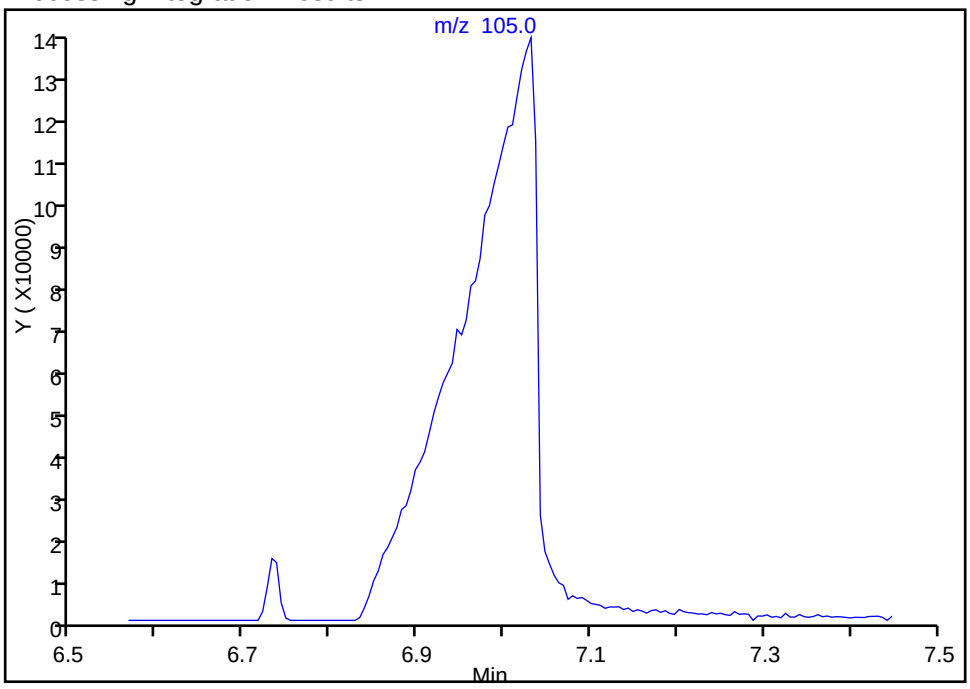
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D
Injection Date: 01-Aug-2017 17:04:30 Instrument ID: HP5973V
Lims ID: IC L1 120
Client ID:
Operator ID: PJQ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

115 Benzoic acid, CAS: 65-85-0

Signal: 1

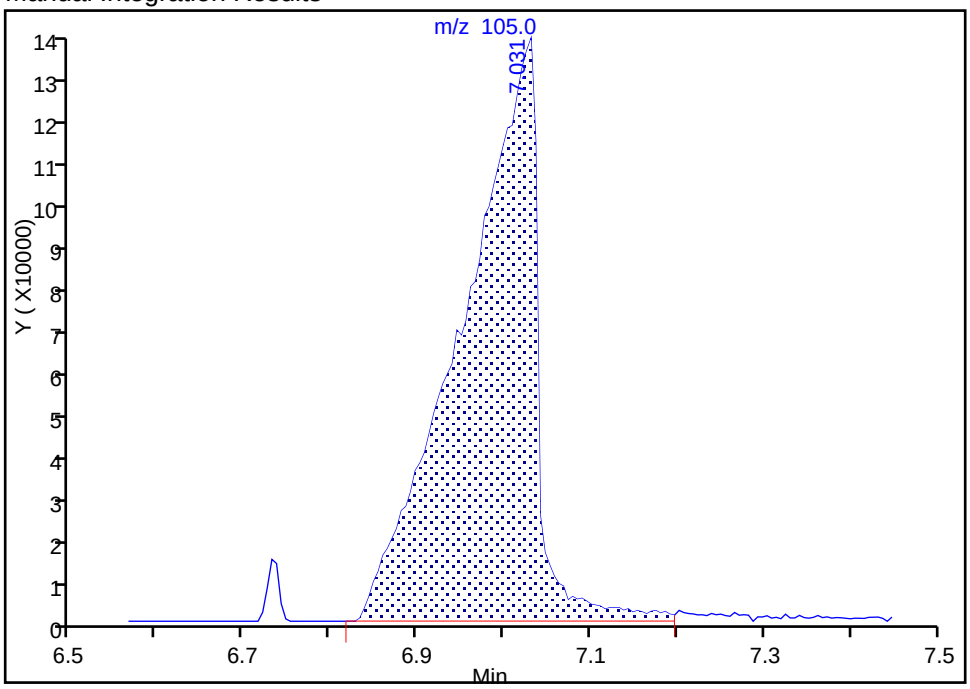
Not Detected
Expected RT: 6.95

Processing Integration Results



Manual Integration Results

RT: 7.03
Area: 822557
Amount: 385.3991
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 17:29:31
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

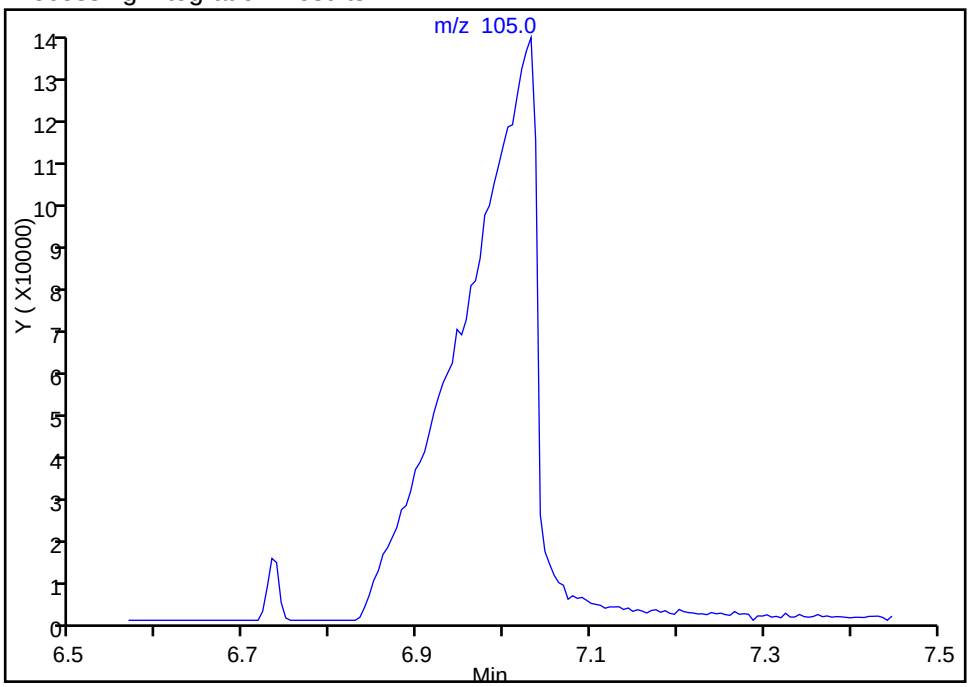
Injection Date:	01-Aug-2017 17:04:30	Instrument ID:	HP5973V		
Lims ID:	IC L1 120				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	V-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

115 Benzoic acid, CAS: 65-85-0

Signal: 1

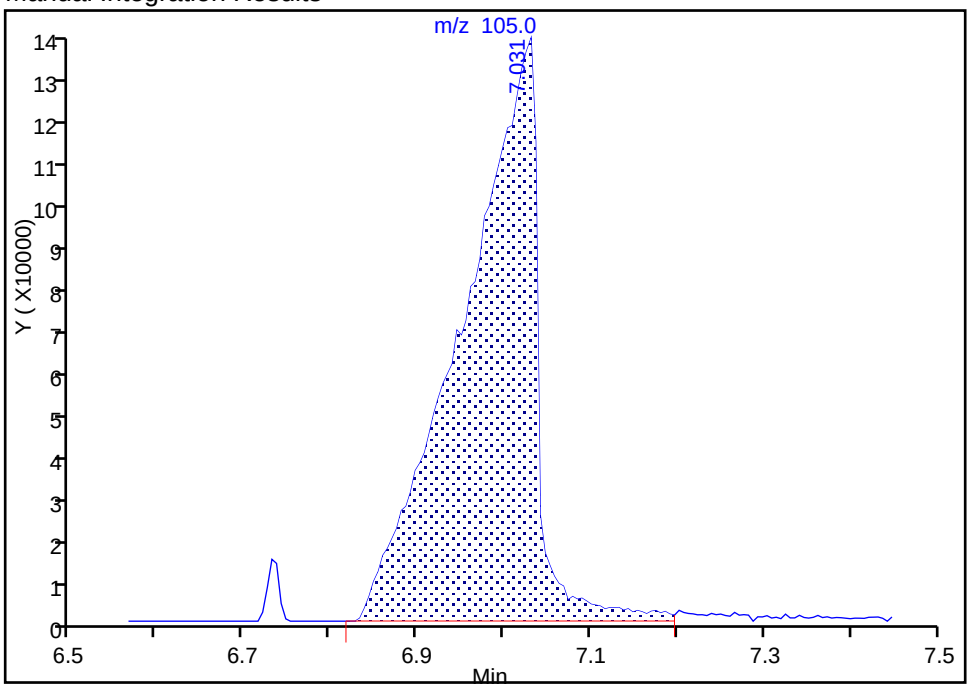
Not Detected
Expected RT: 6.95

Processing Integration Results



Manual Integration Results

RT: 7.03
Area: 822557
Amount: 385.3991
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 17:29:45
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

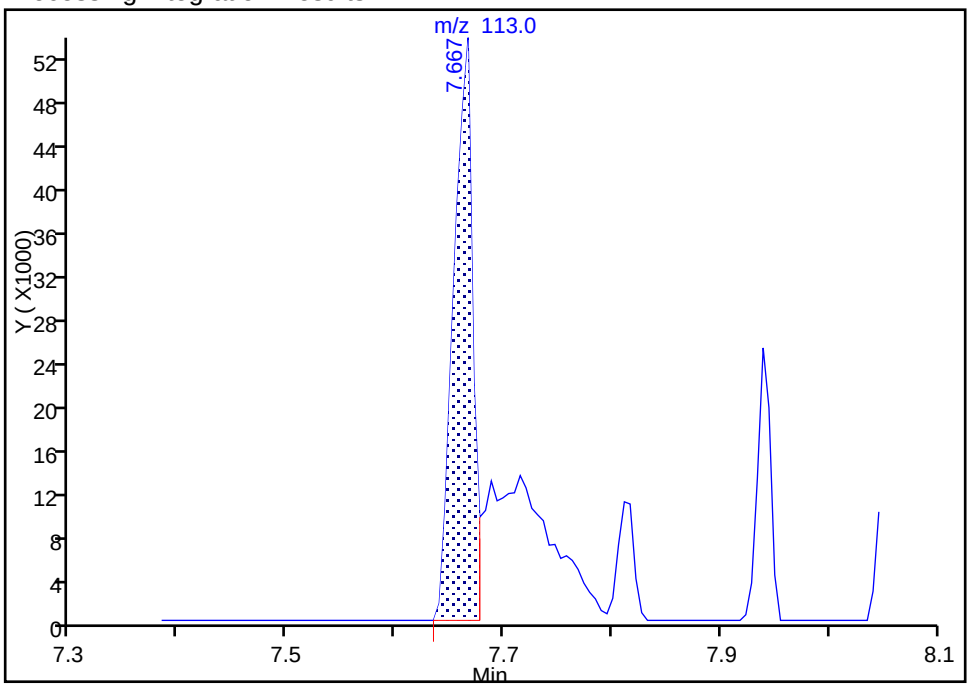
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D
Injection Date: 01-Aug-2017 17:04:30 Instrument ID: HP5973V
Lims ID: IC L1 120
Client ID:
Operator ID: PJQ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

124 Caprolactam, CAS: 105-60-2

Signal: 1

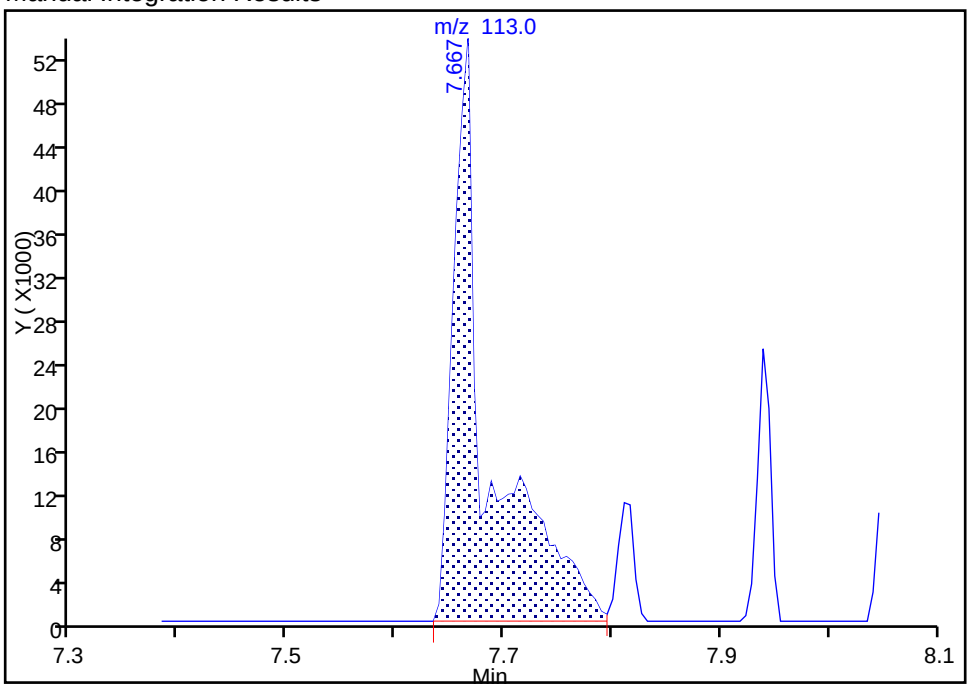
Processing Integration Results

RT: 7.67
Area: 66084
Amount: 74.128068
Amount Units: ng/uL



Manual Integration Results

RT: 7.67
Area: 120084
Amount: 124.2483
Amount Units: ng/uL



Reviewer: quirkp, 01-Aug-2017 17:29:58
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID (1): CCVIS 480-369868/3 Instrument ID (1): HP5973V

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 08/01/2017 18:51

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol	3.75	100.0
Benzaldehyde	4.95	100.0
Phenol-d5	5.10	100.0
Phenol	5.12	100.0
Bis(2-chloroethyl)ether	5.21	100.0
2-Chlorophenol	5.26	100.0
2-Methylphenol	5.89	100.0
bis (2-chloroisopropyl) ether	5.91	100.0
Acetophenone	6.04	100.0
N-Nitrosodi-n-propylamine	6.06	100.0
4-Methylphenol	6.09	100.0
Hexachloroethane	6.16	100.0
Nitrobenzene-d5	6.22	100.0
Nitrobenzene	6.25	100.0
Isophorone	6.55	100.0
2-Nitrophenol	6.64	100.0
2,4-Dimethylphenol	6.73	100.0
Bis(2-chloroethoxy)methane	6.83	100.0
2,4-Dichlorophenol	6.94	100.0
Naphthalene	7.11	100.0
4-Chloroaniline	7.20	100.0
Hexachlorobutadiene	7.29	100.0
Caprolactam	7.62	100.0
4-Chloro-3-methylphenol	7.81	100.0
2-Methylnaphthalene	7.94	100.0
Hexachlorocyclopentadiene	8.14	100.0
2,4,6-Trichlorophenol	8.29	100.0
2,4,5-Trichlorophenol	8.33	100.0
2-Fluorobiphenyl	8.38	100.0
Biphenyl	8.50	100.0
2-Chloronaphthalene	8.51	100.0
2-Nitroaniline	8.64	100.0
Dimethyl phthalate	8.87	100.0
2,6-Dinitrotoluene	8.93	100.0
Acenaphthylene	8.98	100.0
3-Nitroaniline	9.12	100.0
Acenaphthene	9.19	100.0
2,4-Dinitrophenol	9.25	100.0
4-Nitrophenol	9.36	100.0
Dibenzofuran	9.39	100.0
2,4-Dinitrotoluene	9.40	100.0
Diethyl phthalate	9.70	100.0
Fluorene	9.79	100.0
4-Chlorophenyl phenyl ether	9.80	100.0
4-Nitroaniline	9.83	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID (1): CCVIS 480-369868/3 Instrument ID (1): HP5973V

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 08/01/2017 18:51

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	9.87	100.0
N-Nitrosodiphenylamine	9.94	100.0
2,4,6-Tribromophenol	10.06	100.0
4-Bromophenyl phenyl ether	10.34	100.0
Hexachlorobenzene	10.40	100.0
Atrazine	10.54	100.0
Pentachlorophenol	10.61	100.0
Phenanthrene	10.81	100.0
Anthracene	10.86	100.0
Carbazole	11.03	100.0
Di-n-butyl phthalate	11.39	100.0
Fluoranthene	11.94	100.0
Pyrene	12.13	100.0
p-Terphenyl-d14	12.28	100.0
Butyl benzyl phthalate	12.71	100.0
3,3'-Dichlorobenzidine	13.15	100.0
Benzo(a)anthracene	13.16	100.0
Bis(2-ethylhexyl) phthalate	13.19	100.0
Chrysene	13.20	100.0
Di-n-octyl phthalate	13.71	100.0
Benzo(b)fluoranthene	14.03	27.10
Benzo(k)fluoranthene	14.05	100.0
Benzo(a)pyrene	14.28	100.0
Indeno(1,2,3-cd)pyrene	15.19	100.0
Dibenz(a,h)anthracene	15.19	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-369868/3 Calibration Date: 08/01/2017 18:51

Instrument ID: HP5973V Calib Start Date: 08/01/2017 14:54

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 08/01/2017 17:04

Lab File ID: V304372.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5441	0.5818	0.0100	53500	50000	6.9	20.0
N-Nitrosodimethylamine	Ave	0.8056	0.8733	0.0100	54200	50000	8.4	50.0
Pyridine	Ave	1.704	1.798	0.0100	52800	50000	5.5	50.0
Benzaldehyde	Ave	1.074	1.176	0.0100	54700	50000	9.5	50.0
Aniline	Ave	2.010	2.144	0.0100	53300	50000	6.7	20.0
Phenol	Ave	1.677	1.820	0.8000	54300	50000	8.5	20.0
Bis(2-chloroethyl)ether	Ave	1.248	1.322	0.7000	53000	50000	6.0	20.0
2-Chlorophenol	Ave	1.323	1.434	0.8000	54200	50000	8.4	20.0
n-Decane	Ave	2.312	2.472	0.0100	53500	50000	6.9	20.0
1,3-Dichlorobenzene	Ave	1.534	1.673	0.0100	54500	50000	9.0	20.0
1,4-Dichlorobenzene	Ave	1.567	1.670	0.0100	53300	50000	6.6	20.0
Benzyl alcohol	Ave	0.7994	0.8923	0.0100	55800	50000	11.6	20.0
1,2-Dichlorobenzene	Ave	1.432	1.551	0.0100	54200	50000	8.3	20.0
Indene	Ave	0.6396	0.6968	0.0100	163000	150000	8.9	20.0
2-Methylphenol	Ave	1.119	1.211	0.7000	54100	50000	8.2	20.0
bis (2-chloroisopropyl) ether	Ave	2.290	2.419	0.0100	52800	50000	5.6	20.0
Acetophenone	Ave	1.725	1.886	0.0100	54600	50000	9.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.9293	1.008	0.5000	54200	50000	8.4	20.0
4-Methylphenol	Ave	1.148	1.255	0.6000	54700	50000	9.3	20.0
Hexachloroethane	Ave	0.5427	0.6009	0.3000	55400	50000	10.7	20.0
Nitrobenzene	Ave	0.3736	0.4182	0.2000	56000	50000	11.9	20.0
Isophorone	Ave	0.6748	0.7297	0.4000	54100	50000	8.1	20.0
2-Nitrophenol	Ave	0.1640	0.1954	0.1000	59600	50000	19.1	20.0
2,4-Dimethylphenol	Ave	0.3612	0.4012	0.2000	55500	50000	11.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.3949	0.4257	0.3000	53900	50000	7.8	20.0
2,4-Dichlorophenol	Ave	0.3085	0.3458	0.2000	56000	50000	12.1	20.0
Benzoic acid	Lin1		0.2135	0.0100	152000	150000	1.0	50.0
1,2,4-Trichlorobenzene	Ave	0.3409	0.3791	0.0100	55600	50000	11.2	20.0
Naphthalene	Ave	1.018	1.112	0.7000	54600	50000	9.2	20.0
4-Chloroaniline	Ave	0.4215	0.4625	0.0100	54900	50000	9.7	20.0
2,6-Dichlorophenol	Ave	0.2985	0.3364	0.0100	56300	50000	12.7	20.0
Hexachlorobutadiene	Ave	0.2261	0.2484	0.0100	54900	50000	9.9	20.0
Caprolactam	Ave	0.1004	0.0977	0.0100	48700	50000	-2.6	50.0
4-Chloro-3-methylphenol	Ave	0.2932	0.3272	0.2000	55800	50000	11.6	20.0
2-Methylnaphthalene	Ave	0.6532	0.7358	0.4000	56300	50000	12.6	20.0
1-Methylnaphthalene	Ave	0.6009	0.6654	0.0100	55400	50000	10.7	20.0
Hexachlorocyclopentadiene	Ave	0.4479	0.5365	0.0500	59900	50000	19.8	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6693	0.7641	0.0100	57100	50000	14.2	20.0
2,4,6-Trichlorophenol	Ave	0.4207	0.4883	0.2000	58000	50000	16.1	20.0
2,4,5-Trichlorophenol	Ave	0.4303	0.4926	0.2000	57200	50000	14.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-369868/3 Calibration Date: 08/01/2017 18:51

Instrument ID: HP5973V Calib Start Date: 08/01/2017 14:54

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 08/01/2017 17:04

Lab File ID: V304372.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.608	1.770	0.0100	55100	50000	10.1	20.0
2-Chloronaphthalene	Ave	1.280	1.437	0.8000	56100	50000	12.3	20.0
2-Nitroaniline	Ave	0.4140	0.4956	0.0100	59900	50000	19.7	20.0
Dimethyl phthalate	Ave	1.497	1.689	0.0100	56400	50000	12.8	20.0
1,3-Dinitrobenzene	Lin1		0.1280	0.0100	55100	50000	10.2	20.0
2,6-Dinitrotoluene	Ave	0.3185	0.3825	0.2000	60100	50000	20.1*	20.0
Acenaphthylene	Ave	1.861	2.097	0.9000	56300	50000	12.7	20.0
3-Nitroaniline	Ave	0.3248	0.3819	0.0100	58800	50000	17.6	20.0
Acenaphthene	Ave	1.231	1.398	0.0100	56800	50000	13.5	20.0
2,4-Dinitrophenol	Lin1		0.2055	0.0100	112000	100000	11.7	20.0
4-Nitrophenol	Lin1		0.2586	0.0100	116000	100000	15.7	20.0
Dibenzofuran	Ave	1.793	2.029	0.8000	56600	50000	13.1	20.0
2,4-Dinitrotoluene	Ave	0.4209	0.5154	0.0100	61200	50000	22.4*	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3460	0.4236	0.0100	61200	50000	22.4*	20.0
Diethyl phthalate	Ave	1.505	1.700	0.0100	56500	50000	13.0	20.0
Hexadecane	Ave	1.291	1.444	0.0100	55900	50000	11.9	20.0
Fluorene	Ave	1.430	1.603	0.9000	56100	50000	12.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.7161	0.8046	0.4000	56200	50000	12.4	20.0
4-Nitroaniline	Ave	0.3217	0.3858	0.0100	60000	50000	19.9	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1455	0.0100	112000	100000	11.7	20.0
Diphenylamine	Ave	0.6447	0.6784	0.0100	45000	42800	5.2	20.0
N-Nitrosodiphenylamine	Ave	0.5512	0.5800	0.0100	52600	50000	5.2	20.0
1,2-Diphenylhydrazine	Ave	1.450	1.656	0.0100	57100	50000	14.2	20.0
trans-Azobenzene	Ave	0.7763	0.8336	0.0100	53700	50000	7.4	20.0
4-Bromophenyl phenyl ether	Ave	0.2341	0.2548	0.1000	54400	50000	8.9	20.0
Hexachlorobenzene	Ave	0.2597	0.2790	0.1000	53700	50000	7.4	20.0
Atrazine	Ave	0.4090	0.4844	0.0100	59200	50000	18.4	20.0
Pentachlorophenol	Lin1		0.1480	0.0500	108000	100000	7.6	20.0
n-Octadecane	Ave	0.6894	0.7297	0.0100	52900	50000	5.8	20.0
Phenanthrene	Ave	1.126	1.220	0.7000	54100	50000	8.3	20.0
Anthracene	Ave	1.179	1.267	0.7000	53800	50000	7.5	20.0
Carbazole	Ave	1.015	1.104	0.0100	54400	50000	8.7	20.0
Di-n-butyl phthalate	Ave	1.305	1.487	0.0100	57000	50000	13.9	20.0
Fluoranthene	Ave	1.239	1.404	0.6000	56700	50000	13.3	20.0
Benzidine	Ave	0.6958	0.7454	0.0100	53600	50000	7.1	50.0
Pyrene	Ave	1.136	1.175	0.6000	51700	50000	3.5	20.0
Butyl benzyl phthalate	Ave	0.5164	0.5671	0.0100	54900	50000	9.8	20.0
3,3'-Dichlorobenzidine	Ave	0.4081	0.4632	0.0100	56700	50000	13.5	50.0
Benzo(a)anthracene	Ave	1.143	1.273	0.8000	55700	50000	11.3	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7267	0.8316	0.0100	57200	50000	14.4	20.0
Chrysene	Ave	1.059	1.146	0.7000	54100	50000	8.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-369868/3 Calibration Date: 08/01/2017 18:51

Instrument ID: HP5973V Calib Start Date: 08/01/2017 14:54

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 08/01/2017 17:04

Lab File ID: V304372.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Ave	1.236	1.451	0.0100	58700	50000	17.4	20.0
Benzo(b)fluoranthene	Ave	1.142	1.266	0.7000	55400	50000	10.9	20.0
Benzo(k)fluoranthene	Ave	1.183	1.323	0.7000	55900	50000	11.9	20.0
Benzo(a)pyrene	Ave	1.063	1.169	0.7000	55000	50000	9.9	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.202	1.198	0.5000	49900	50000	-0.3	20.0
Dibenz(a,h)anthracene	Ave	1.011	1.010	0.4000	49900	50000	-0.1	20.0
Benzo(g,h,i)perylene	Ave	1.014	0.9847	0.5000	48600	50000	-2.8	20.0
2-Fluorophenol	Ave	1.257	1.376	0.0100	54700	50000	9.5	20.0
Phenol-d5	Ave	1.501	1.658	0.0100	55200	50000	10.4	20.0
Nitrobenzene-d5	Ave	0.3669	0.4185	0.0100	57000	50000	14.1	20.0
2-Fluorobiphenyl	Ave	1.481	1.634	0.0100	55200	50000	10.4	20.0
2,4,6-Tribromophenol	Ave	0.1175	0.1317	0.0100	56100	50000	12.1	20.0
p-Terphenyl-d14	Ave	0.8139	0.8557	0.0100	52600	50000	5.1	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304372.D
Lims ID: CCVIS L1 50
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Aug-2017 18:51:30 ALS Bottle#: 13 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064505-003
Operator ID: PJQ Instrument ID: HP5973V
Sublist: chrom-V-8270*sub63

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:11:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.524	5.524	0.000	96	102679	40.0	40.0	
* 2 Naphthalene-d8	136	7.084	7.084	0.000	99	352431	40.0	40.0	
* 3 Acenaphthene-d10	164	9.152	9.152	0.000	97	176637	40.0	40.0	
* 4 Phenanthrene-d10	188	10.781	10.781	0.000	97	350829	40.0	40.0	
* 5 Chrysene-d12	240	13.175	13.175	0.000	97	431755	40.0	40.0	
* 6 Perylene-d12	264	14.318	14.318	0.000	99	422667	40.0	40.0	
$ 7 2-Fluorophenol	112	3.751	3.751	0.000	96	176628	50.0	54.7	
$ 8 Phenol-d5	99	5.102	5.102	0.000	95	212771	50.0	55.2	
$ 9 Nitrobenzene-d5	82	6.224	6.224	0.000	95	184363	50.0	57.0	
$ 10 2-Fluorobiphenyl	172	8.383	8.383	0.000	100	360882	50.0	55.2	
$ 11 2,4,6-Tribromophenol	330	10.060	10.060	0.000	94	57758	50.0	56.1	
$ 12 p-Terphenyl-d14	244	12.282	12.282	0.000	99	461816	50.0	52.6	
68 1,4-Dioxane	88	1.507	1.507	0.000	88	74672	50.0	53.5	
69 N-Nitrosodimethylamine	42	1.780	1.780	0.000	89	112082	50.0	54.2	
70 Pyridine	52	1.822	1.822	0.000	76	230804	50.0	52.8	
80 Benzaldehyde	77	4.953	4.953	0.000	92	150905	50.0	54.7	
82 Aniline	93	5.108	5.108	0.000	88	275191	50.0	53.3	
81 Phenol	94	5.118	5.118	0.000	96	233567	50.0	54.3	
83 Bis(2-chloroethyl)ether	93	5.209	5.209	0.000	89	169722	50.0	53.0	
84 2-Chlorophenol	128	5.257	5.257	0.000	96	184018	50.0	54.2	
263 n-Decane	57	5.364	5.364	0.000	90	317316	50.0	53.5	
87 1,3-Dichlorobenzene	146	5.455	5.455	0.000	97	214707	50.0	54.5	
88 1,4-Dichlorobenzene	146	5.546	5.546	0.000	92	214384	50.0	53.3	
90 Benzyl alcohol	108	5.727	5.727	0.000	89	114523	50.0	55.8	
91 1,2-Dichlorobenzene	146	5.738	5.738	0.000	97	199088	50.0	54.2	
248 Indene	115	5.850	5.850	0.000	96	920858	150.0	163.4	
92 2-Methylphenol	108	5.888	5.888	0.000	97	155486	50.0	54.1	
93 2,2'-oxybis[1-chloropropan	45	5.909	5.909	0.000	93	310469	50.0	52.8	
94 Acetophenone	105	6.043	6.043	0.000	93	242061	50.0	54.6	
95 N-Nitrosodi-n-propylamine	70	6.064	6.064	0.000	92	129322	50.0	54.2	
96 4-Methylphenol	108	6.091	6.091	0.000	93	161027	50.0	54.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
99 Hexachloroethane	117	6.155	6.155	0.000	93	77127	50.0	55.4	
102 Nitrobenzene	77	6.246	6.246	0.000	95	184212	50.0	56.0	
106 Isophorone	82	6.545	6.545	0.000	97	321466	50.0	54.1	
107 2-Nitrophenol	139	6.641	6.641	0.000	98	86063	50.0	59.6	
108 2,4-Dimethylphenol	107	6.726	6.726	0.000	98	176754	50.0	55.5	
111 Bis(2-chloroethoxy)methane	93	6.833	6.833	0.000	92	187534	50.0	53.9	
114 2,4-Dichlorophenol	162	6.935	6.935	0.000	96	152331	50.0	56.0	
115 Benzoic acid	105	6.956	6.956	0.000	92	282149	150.0	151.6	
117 1,2,4-Trichlorobenzene	180	7.031	7.031	0.000	94	167007	50.0	55.6	
118 Naphthalene	128	7.111	7.111	0.000	98	489713	50.0	54.6	
119 4-Chloroaniline	127	7.197	7.197	0.000	95	203730	50.0	54.9	
122 2,6-Dichlorophenol	162	7.207	7.207	0.000	95	148201	50.0	56.3	
121 Hexachlorobutadiene	225	7.287	7.287	0.000	96	109419	50.0	54.9	
124 Caprolactam	113	7.624	7.624	0.000	74	43052	50.0	48.7	
129 4-Chloro-3-methylphenol	107	7.806	7.806	0.000	96	144121	50.0	55.8	
131 2-Methylnaphthalene	142	7.939	7.939	0.000	92	324137	50.0	56.3	
251 1-Methylnaphthalene	142	8.051	8.051	0.000	99	293118	50.0	55.4	
134 Hexachlorocyclopentadiene	237	8.137	8.137	0.000	95	118447	50.0	59.9	
135 1,2,4,5-Tetrachlorobenzene	216	8.142	8.142	0.000	97	168720	50.0	57.1	
137 2,4,6-Trichlorophenol	196	8.286	8.286	0.000	93	107822	50.0	58.0	
138 2,4,5-Trichlorophenol	196	8.329	8.329	0.000	94	108771	50.0	57.2	
140 1,1'-Biphenyl	154	8.495	8.495	0.000	96	390895	50.0	55.1	
141 2-Chloronaphthalene	162	8.505	8.505	0.000	97	317175	50.0	56.1	
143 2-Nitroaniline	65	8.639	8.639	0.000	78	109416	50.0	59.9	
146 Dimethyl phthalate	163	8.874	8.874	0.000	99	372850	50.0	56.4	
148 1,3-Dinitrobenzene	168	8.890	8.890	0.000	84	56386	50.0	55.1	
149 2,6-Dinitrotoluene	165	8.933	8.933	0.000	94	84454	50.0	60.1	
150 Acenaphthylene	152	8.981	8.981	0.000	98	462964	50.0	56.3	
151 3-Nitroaniline	138	9.120	9.120	0.000	87	84327	50.0	58.8	
152 Acenaphthene	153	9.189	9.189	0.000	95	308580	50.0	56.8	
153 2,4-Dinitrophenol	184	9.248	9.248	0.000	86	90761	100.0	111.7	
154 4-Nitrophenol	109	9.355	9.355	0.000	94	114192	100.0	115.7	
155 Dibenzofuran	168	9.392	9.392	0.000	95	447966	50.0	56.6	
156 2,4-Dinitrotoluene	165	9.398	9.398	0.000	88	113796	50.0	61.2	
158 2,3,4,6-Tetrachlorophenol	232	9.547	9.547	0.000	73	93533	50.0	61.2	
161 Diethyl phthalate	149	9.702	9.702	0.000	97	375461	50.0	56.5	
256 Hexadecane	57	9.739	9.739	0.000	70	318847	50.0	55.9	
162 Fluorene	166	9.788	9.788	0.000	94	353948	50.0	56.1	
163 4-Chlorophenyl phenyl ethe	204	9.804	9.804	0.000	94	177659	50.0	56.2	
164 4-Nitroaniline	138	9.830	9.830	0.000	79	85183	50.0	60.0	
165 4,6-Dinitro-2-methylphenol	198	9.873	9.873	0.000	82	127642	100.0	111.7	
169 Diphenylamine	169	9.942	9.942	0.000	94	254351	42.8	45.0	
168 N-Nitrosodiphenylamine	169	9.942	9.942	0.000	66	254351	50.0	52.6	
170 1,2-Diphenylhydrazine	77	9.980	9.980	0.000	96	365555	50.0	57.1	
171 Azobenzene	77	9.980	9.980	0.000	98	365555	50.0	53.7	
175 4-Bromophenyl phenyl ether	248	10.338	10.338	0.000	67	111755	50.0	54.4	
179 Hexachlorobenzene	284	10.397	10.397	0.000	95	122357	50.0	53.7	
180 Atrazine	200	10.535	10.535	0.000	91	106946	50.0	59.2	
183 Pentachlorophenol	266	10.610	10.610	0.000	92	129784	100.0	107.6	
265 n-Octadecane	57	10.733	10.733	0.000	84	319991	50.0	52.9	
188 Phenanthrene	178	10.808	10.808	0.000	97	534807	50.0	54.1	
189 Anthracene	178	10.856	10.856	0.000	98	555813	50.0	53.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Carbazole	167	11.027	11.027	0.000	96	484176	50.0	54.4	
195 Di-n-butyl phthalate	149	11.390	11.390	0.000	100	651924	50.0	57.0	
201 Fluoranthene	202	11.935	11.935	0.000	97	615587	50.0	56.7	
202 Benzidine	184	12.063	12.063	0.000	99	402268	50.0	53.6	
204 Pyrene	202	12.133	12.133	0.000	98	634081	50.0	51.7	
210 Butyl benzyl phthalate	149	12.710	12.710	0.000	98	306068	50.0	54.9	
215 3,3'-Dichlorobenzidine	252	13.148	13.148	0.000	73	249962	50.0	56.7	
217 Benzo[a]anthracene	228	13.164	13.164	0.000	97	687043	50.0	55.7	
216 Bis(2-ethylhexyl) phthalat	149	13.191	13.191	0.000	97	448823	50.0	57.2	
218 Chrysene	228	13.196	13.196	0.000	97	618444	50.0	54.1	
220 Di-n-octyl phthalate	149	13.714	13.714	0.000	99	782854	50.0	58.7	
221 Benzo[b]fluoranthene	252	14.029	14.029	0.000	96	668792	50.0	55.4	
222 Benzo[k]fluoranthene	252	14.051	14.051	0.000	99	698992	50.0	55.9	
225 Benzo[a]pyrene	252	14.275	14.275	0.000	76	617538	50.0	55.0	
227 Indeno[1,2,3-cd]pyrene	276	15.189	15.189	0.000	98	633058	50.0	49.9	
228 Dibenz(a,h)anthracene	278	15.194	15.194	0.000	92	533506	50.0	49.9	
229 Benzo[g,h,i]perylene	276	15.434	15.434	0.000	98	520272	50.0	48.6	

Reagents:

MB_LIST1_WRK_00490	Amount Added: 1.00	Units: mL	
MB_INTSTD_STK_00037	Amount Added: 20.00	Units: uL	Run Reagent

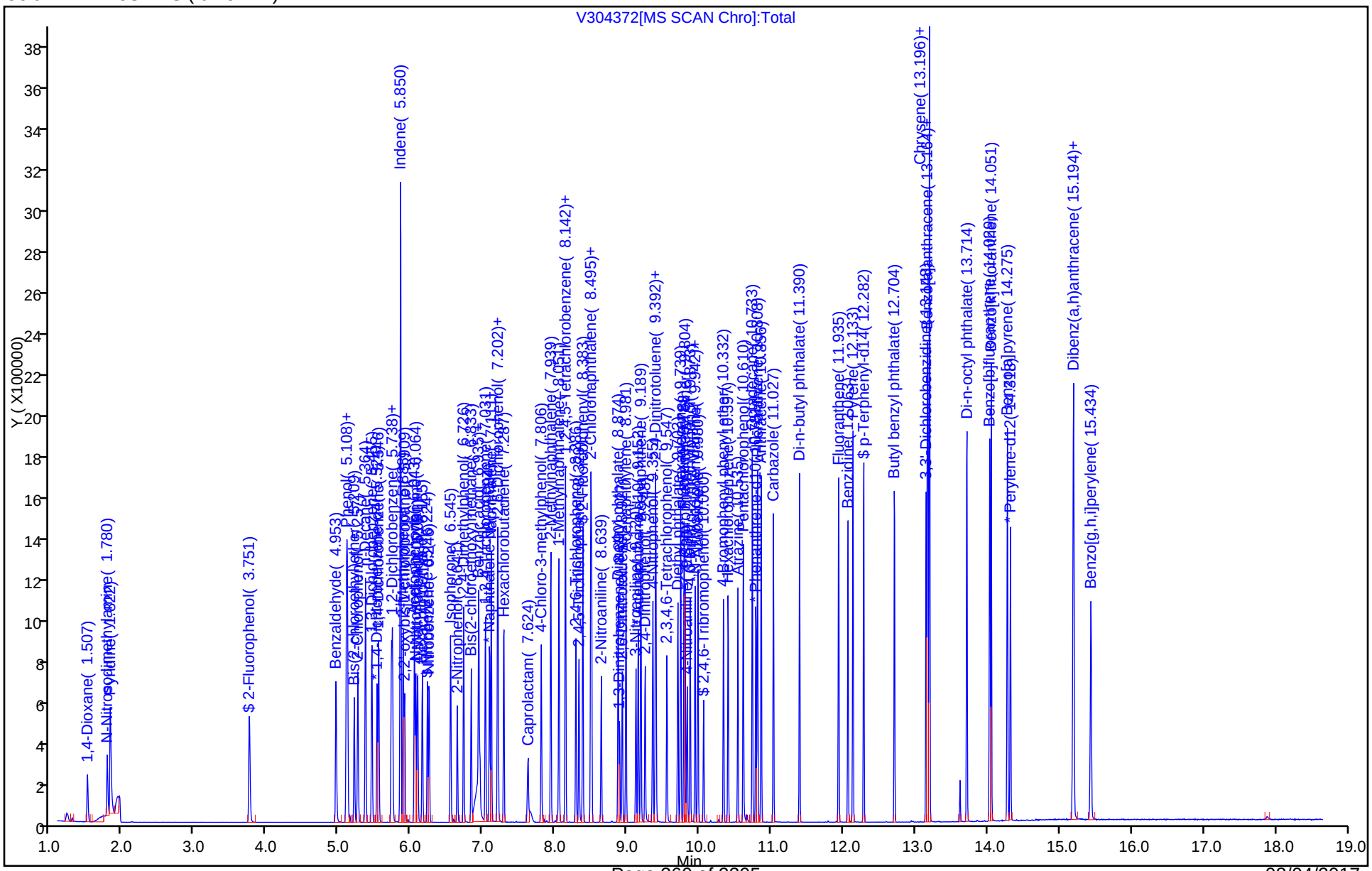
Report Date: 02-Aug-2017 15:46:02 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304372.D

Injection Date:	01-Aug-2017 18:51:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	CCVIS L1 50			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304362.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 01-Aug-2017 14:28:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064504-003
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 11:33:24 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 01-Aug-2017 14:51:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Pentachlorophenol_T	266	10.605	10.605	0.000	92	31674	NR	NR	
112 DFTPP									
128 Benzidine_T	184	12.063	12.063	0.000	99	322905	NR	NR	
130 4,4'-DDE	246		12.779					ND	
139 4,4'-DDT	235	12.779	12.779	0.000	98	156973	NR	NR	
136 4,4'-DDD	235		12.779					ND	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

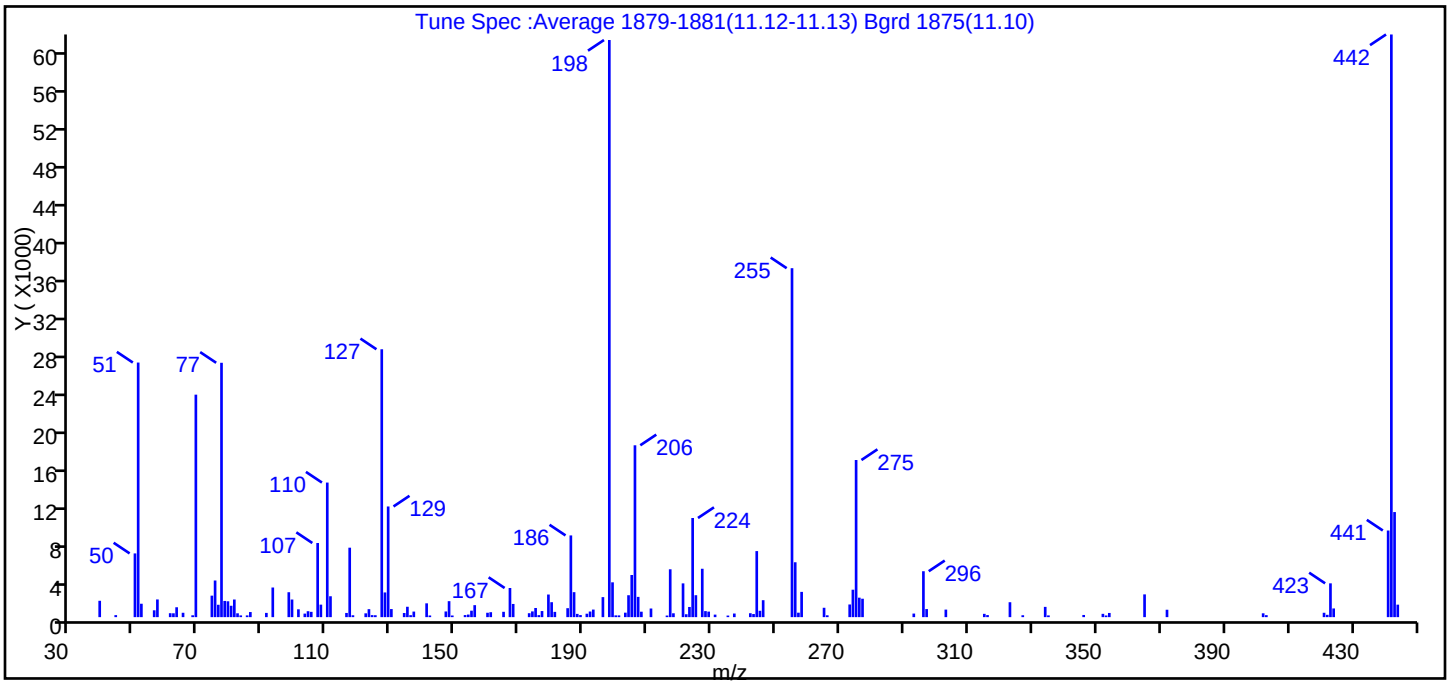
MB_DFTPP_WRK_00316 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304362.D
Injection Date: 01-Aug-2017 14:28:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

112 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (99.0)
51	10-80% of the base peak	44.1
68	<2% of mass 69	0.3 (0.8)
69	Present	38.6
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	46.4
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.0
275	10-60% of the base peak	27.2
365	>1% of mass 198	3.9
441	present but <24% of mass 442	15.0 (14.9)
442	base peak, or >50% of 198	101.0
443	15-24% of mass 442	18.2 (18.0)

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304362.D\V-8270.rslt\spectra.d
Injection Date: 01-Aug-2017 14:28:30
Spectrum: Tune Spec :Average 1879-1881(11.12-11.13) Bgrd 1875(11.10)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 150

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1724	117.00	7320	187.00	2632	256.00	5784
44.00	212	118.00	198	188.00	344	257.00	469
50.00	6716	122.00	402	189.00	219	258.00	2662
51.00	26832	123.00	840	191.00	361	265.00	988
52.00	1413	124.00	213	192.00	594	266.00	194
56.00	721	125.00	202	193.00	798	273.00	1335
57.00	1865	127.00	28232	196.00	2110	274.00	2891
61.00	415	128.00	2603	198.00	60824	275.00	16560
62.00	407	129.00	11664	199.00	3669	276.00	2051
63.00	1042	130.00	851	200.00	186	277.00	1940
65.00	461	134.00	435	201.00	184	293.00	377
68.00	196	135.00	1094	203.00	471	296.00	4839
69.00	23448	136.00	208	204.00	2310	297.00	852
74.00	2265	137.00	587	205.00	4440	303.00	795
75.00	3862	141.00	1455	206.00	18112	315.00	348
76.00	1304	142.00	176	207.00	2135	316.00	217
77.00	26808	147.00	599	208.00	574	323.00	1572
78.00	1708	148.00	1684	211.00	911	327.00	200
79.00	1672	149.00	173	216.00	168	334.00	1082
80.00	1199	153.00	219	217.00	5044	335.00	183
81.00	1858	154.00	271	218.00	407	346.00	229
82.00	405	155.00	681	221.00	3559	352.00	349
83.00	183	156.00	1263	222.00	306	353.00	175
85.00	185	160.00	462	223.00	1072	354.00	441
86.00	537	161.00	522	224.00	10449	365.00	2399
91.00	447	165.00	563	225.00	2312	372.00	780
93.00	3123	167.00	3072	227.00	5100	402.00	405
98.00	2626	168.00	1390	228.00	635	403.00	210
99.00	1857	173.00	414	229.00	583	421.00	461
101.00	826	174.00	605	231.00	266	422.00	245
103.00	372	175.00	965	235.00	167	423.00	3563
104.00	625	176.00	211	237.00	381	424.00	916
105.00	559	177.00	642	242.00	413	441.00	9130

Report Date: 02-Aug-2017 11:33:26 Chrom Revision: 2.2 20-Jun-2017 07:42:38
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304362.D\V-8270.rslt\spectra.d
Injection Date: 01-Aug-2017 14:28:30
Spectrum: Tune Spec :Average 1879-1881(11.12-11.13) Bgrd 1875(11.10)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 150

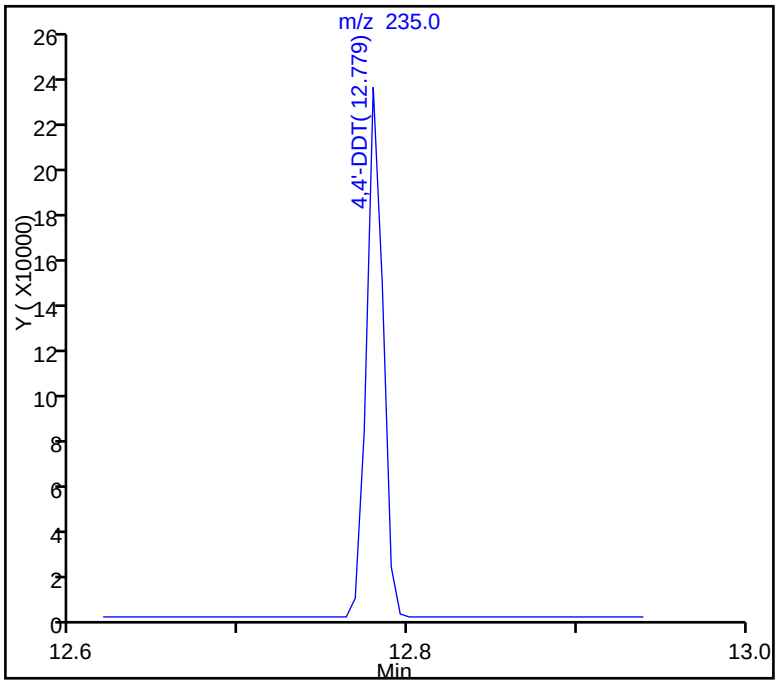
m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	7813	179.00	2384	243.00	328	442.00	61408
108.00	1318	180.00	1575	244.00	6961	443.00	11075
110.00	14184	181.00	556	245.00	671	444.00	1316
111.00	2202	185.00	944	246.00	1786		
116.00	442	186.00	8612	255.00	36776		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304362.D
Injection Date: 01-Aug-2017 14:28:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

139 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

139 4,4'-DDT, Area = 156973
136 4,4'-DDD, Area = 0
130 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

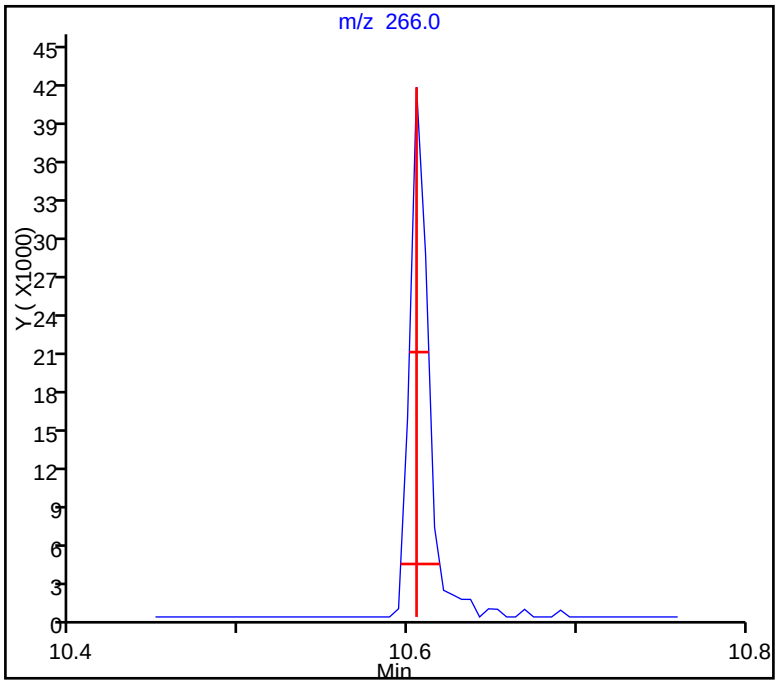
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304362.D
Injection Date: 01-Aug-2017 14:28:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

104 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.009 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

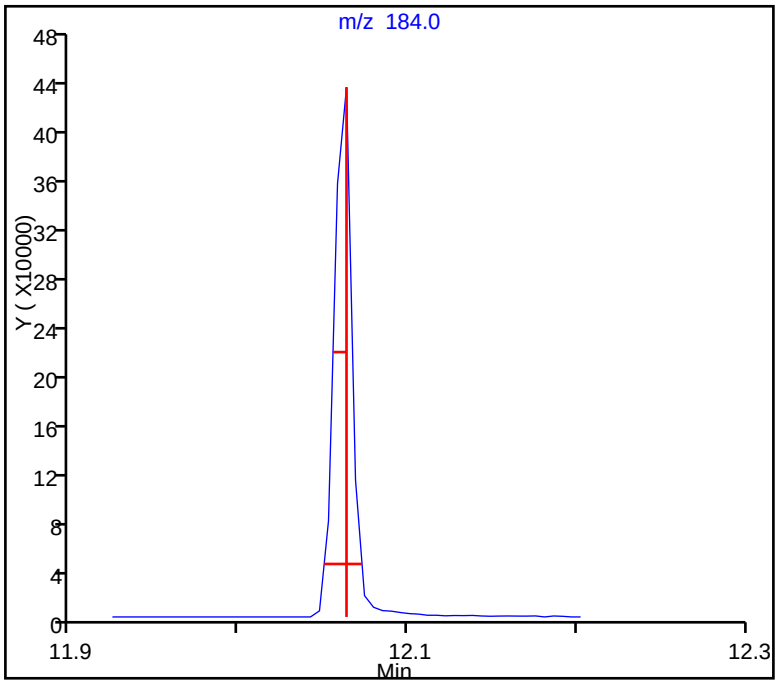
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304362.D
Injection Date: 01-Aug-2017 14:28:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

128 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 0.7, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304371.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 01-Aug-2017 18:24:30 ALS Bottle#: 12 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064505-002
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:45:57 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:09:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Pentachlorophenol_T	266	10.605	10.605	0.000	91	32711	NR	NR	
112 DFTPP									
128 Benzidine_T	184	12.063	12.063	0.000	99	301712	NR	NR	
130 4,4'-DDE	246		12.779					ND	
139 4,4'-DDT	235	12.779	12.779	0.000	98	154683	NR	NR	
136 4,4'-DDD	235		12.779					ND	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

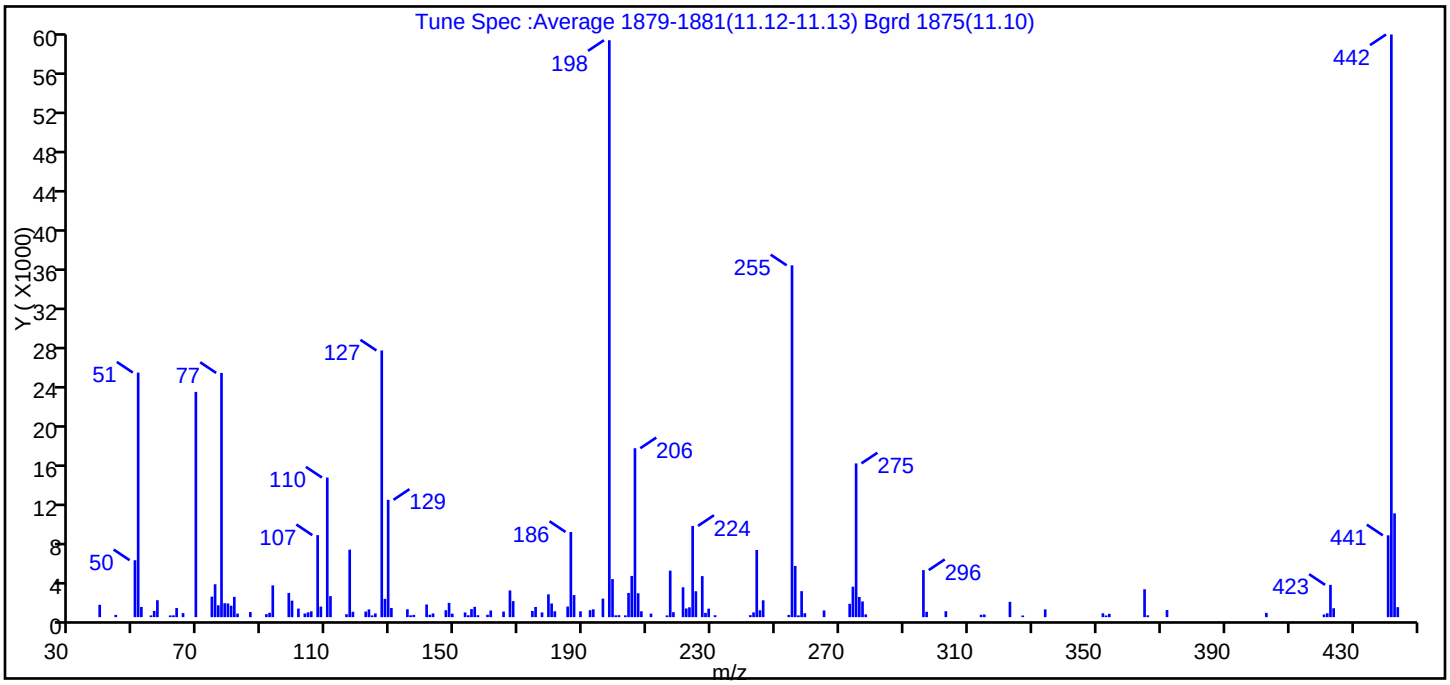
MB_DFTPP_WRK_00316 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304371.D
Injection Date: 01-Aug-2017 18:24:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 12 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

112 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (99.0)
51	10-80% of the base peak	42.4
68	<2% of mass 69	0.0 (0.0)
69	Present	39.0
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	46.2
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.6
275	10-60% of the base peak	26.7
365	>1% of mass 198	4.8
441	present but <24% of mass 442	14.2 (14.0)
442	base peak, or >50% of 198	101.0
443	15-24% of mass 442	18.0 (17.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304371.D\V-8270.rslt\spectra.d
Injection Date: 01-Aug-2017 18:24:30
Spectrum: Tune Spec :Average 1879-1881(11.12-11.13) Bgrd 1875(11.10)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1254	116.00	295	185.00	1077	255.00	35760
44.00	230	117.00	6858	186.00	8659	256.00	5206
50.00	5786	118.00	547	187.00	2246	257.00	180
51.00	24856	122.00	570	189.00	593	258.00	2644
52.00	1036	123.00	785	192.00	709	259.00	398
55.00	176	124.00	176	193.00	796	265.00	682
56.00	634	125.00	378	196.00	1881	273.00	1357
57.00	1719	127.00	27104	198.00	58640	274.00	3092
61.00	176	128.00	1861	199.00	3870	275.00	15628
62.00	185	129.00	11925	200.00	184	276.00	2051
63.00	934	130.00	934	201.00	200	277.00	1597
65.00	411	135.00	804	203.00	180	278.00	279
69.00	22896	136.00	191	204.00	2458	296.00	4781
74.00	2084	137.00	230	205.00	4190	297.00	547
75.00	3345	141.00	1289	206.00	17168	303.00	604
76.00	1205	142.00	245	207.00	2428	314.00	241
77.00	24824	143.00	378	208.00	595	315.00	267
78.00	1413	147.00	705	211.00	358	323.00	1558
79.00	1395	148.00	1451	216.00	176	327.00	169
80.00	1164	149.00	351	217.00	4729	334.00	789
81.00	2058	153.00	474	218.00	505	352.00	392
82.00	362	154.00	191	221.00	3038	353.00	169
86.00	517	155.00	818	222.00	882	354.00	338
91.00	307	156.00	1048	223.00	1000	365.00	2833
92.00	444	157.00	196	224.00	9273	366.00	188
93.00	3231	160.00	244	225.00	2634	372.00	722
98.00	2459	161.00	677	227.00	4171	403.00	429
99.00	1678	165.00	568	228.00	435	421.00	271
101.00	870	167.00	2714	229.00	864	422.00	395
103.00	368	168.00	1628	231.00	196	423.00	3281
104.00	488	174.00	630	242.00	205	424.00	908
105.00	593	175.00	1038	243.00	482	441.00	8315
107.00	8334	177.00	479	244.00	6824	442.00	59224

Report Date: 02-Aug-2017 15:45:58 Chrom Revision: 2.2 20-Jun-2017 07:42:38
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304371.D\V-8270.rslt\spectra.d
Injection Date: 01-Aug-2017 18:24:30
Spectrum: Tune Spec :Average 1879-1881(11.12-11.13) Bgrd 1875(11.10)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 143

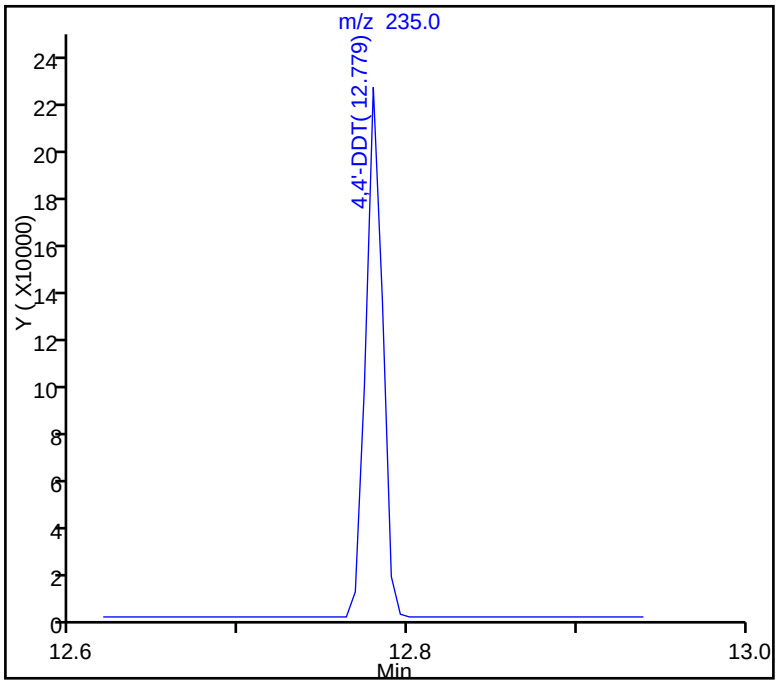
m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	1075	179.00	2318	245.00	694	443.00	10550
110.00	14189	180.00	1387	246.00	1712	444.00	1016
111.00	2138	181.00	599	254.00	225		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304371.D
Injection Date: 01-Aug-2017 18:24:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 12 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

139 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

139 4,4'-DDT, Area = 154683
136 4,4'-DDD, Area = 0
130 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

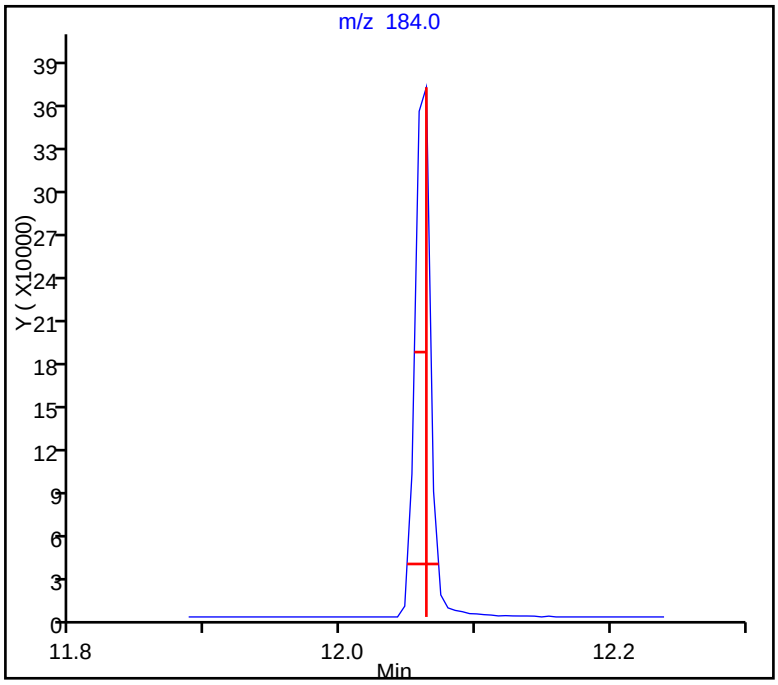
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304371.D
Injection Date: 01-Aug-2017 18:24:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 12 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

128 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.009 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.6, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

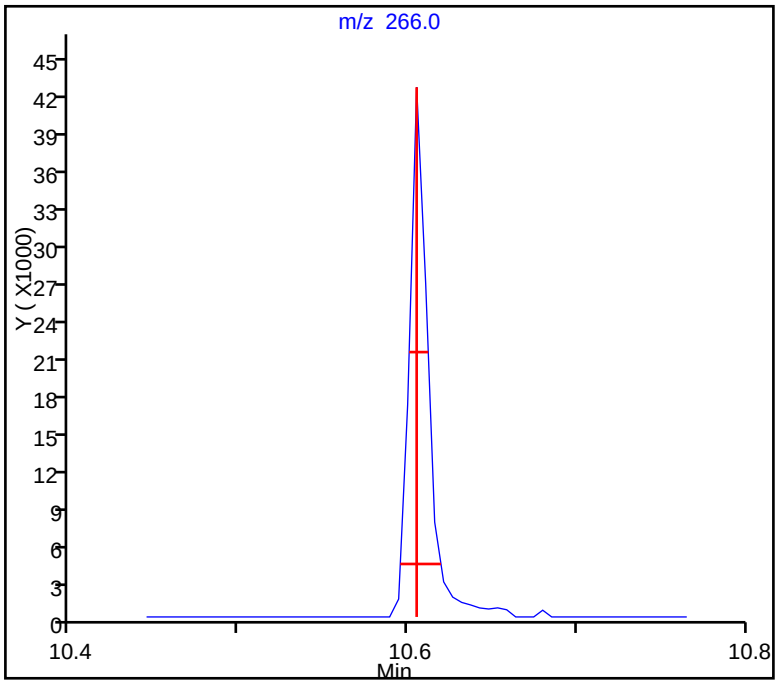
Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304371.D
Injection Date: 01-Aug-2017 18:24:30 Instrument ID: HP5973V
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 12 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: V-8270 Limit Group: MB - 8270D ICAL

104 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368504/1-A

Matrix: Solid | Lab File ID: V304374.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.38(g) | Date Analyzed: 08/01/2017 19:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		170	25
108-60-1	bis (2-chloroisopropyl) ether	ND		170	34
95-95-4	2,4,5-Trichlorophenol	ND		170	45
88-06-2	2,4,6-Trichlorophenol	ND		170	34
120-83-2	2,4-Dichlorophenol	ND		170	18
105-67-9	2,4-Dimethylphenol	ND		170	40
51-28-5	2,4-Dinitrophenol	ND		1600	770
121-14-2	2,4-Dinitrotoluene	ND		170	35
606-20-2	2,6-Dinitrotoluene	ND		170	20
91-58-7	2-Chloronaphthalene	ND		170	28
95-57-8	2-Chlorophenol	ND		170	31
91-57-6	2-Methylnaphthalene	ND		170	34
95-48-7	2-Methylphenol	ND		170	20
88-74-4	2-Nitroaniline	ND		330	25
88-75-5	2-Nitrophenol	ND		170	47
91-94-1	3,3'-Dichlorobenzidine	ND		330	200
99-09-2	3-Nitroaniline	ND		330	46
534-52-1	4,6-Dinitro-2-methylphenol	ND		330	170
101-55-3	4-Bromophenyl phenyl ether	ND		170	24
59-50-7	4-Chloro-3-methylphenol	ND		170	41
106-47-8	4-Chloroaniline	ND		170	41
7005-72-3	4-Chlorophenyl phenyl ether	ND		170	21
106-44-5	4-Methylphenol	ND		330	20
100-01-6	4-Nitroaniline	ND		330	88
100-02-7	4-Nitrophenol	ND		330	120
83-32-9	Acenaphthene	ND		170	25
208-96-8	Acenaphthylene	ND		170	22
98-86-2	Acetophenone	ND		170	23
120-12-7	Anthracene	ND		170	41
1912-24-9	Atrazine	ND		170	58
100-52-7	Benzaldehyde	ND		170	130
56-55-3	Benzo(a)anthracene	ND		170	17
50-32-8	Benzo(a)pyrene	ND		170	25
205-99-2	Benzo(b)fluoranthene	ND		170	27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368504/1-A

Matrix: Solid | Lab File ID: V304374.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.38(g) | Date Analyzed: 08/01/2017 19:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		170	18
207-08-9	Benzo(k)fluoranthene	ND		170	22
111-91-1	Bis(2-chloroethoxy)methane	ND		170	36
111-44-4	Bis(2-chloroethyl)ether	ND		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	ND		170	57
85-68-7	Butyl benzyl phthalate	ND		170	28
105-60-2	Caprolactam	ND		170	50
86-74-8	Carbazole	ND		170	20
218-01-9	Chrysene	ND		170	38
84-74-2	Di-n-butyl phthalate	ND		170	29
117-84-0	Di-n-octyl phthalate	ND		170	20
53-70-3	Dibenz(a,h)anthracene	ND		170	30
132-64-9	Dibenzofuran	ND		170	20
84-66-2	Diethyl phthalate	ND		170	22
131-11-3	Dimethyl phthalate	ND		170	20
206-44-0	Fluoranthene	ND		170	18
86-73-7	Fluorene	ND		170	20
118-74-1	Hexachlorobenzene	ND		170	23
87-68-3	Hexachlorobutadiene	ND		170	25
77-47-4	Hexachlorocyclopentadiene	ND		170	23
67-72-1	Hexachloroethane	ND		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	ND		170	21
78-59-1	Isophorone	ND		170	36
621-64-7	N-Nitrosodi-n-propylamine	ND		170	29
86-30-6	N-Nitrosodiphenylamine	ND		170	140
91-20-3	Naphthalene	ND		170	22
98-95-3	Nitrobenzene	ND		170	19
87-86-5	Pentachlorophenol	ND		330	170
85-01-8	Phenanthrene	ND		170	25
108-95-2	Phenol	ND		170	26
129-00-0	Pyrene	ND		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368504/1-A

Matrix: Solid | Lab File ID: V304374.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.38(g) | Date Analyzed: 08/01/2017 19:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	86		54-120
321-60-8	2-Fluorobiphenyl	88		60-120
367-12-4	2-Fluorophenol	82		52-120
4165-60-0	Nitrobenzene-d5	87		53-120
1718-51-0	p-Terphenyl-d14	97		65-121
4165-62-2	Phenol-d5	85		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304374.D
Lims ID: MB 480-368504/1-A
Client ID:
Sample Type: MB
Inject. Date: 01-Aug-2017 19:43:30 ALS Bottle#: 15 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064505-005
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:13:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.530	5.524	0.006	97	97668	40.0	40.0	
* 2 Naphthalene-d8	136	7.084	7.084	0.000	100	338552	40.0	40.0	
* 3 Acenaphthene-d10	164	9.147	9.152	-0.005	96	159631	40.0	40.0	
* 4 Phenanthrene-d10	188	10.776	10.781	-0.005	97	273030	40.0	40.0	
* 5 Chrysene-d12	240	13.164	13.175	-0.011	97	288264	40.0	40.0	
* 6 Perylene-d12	264	14.313	14.318	-0.005	99	294074	40.0	40.0	
$ 7 2-Fluorophenol	112	3.767	3.751	0.016	95	100719	40.0	32.8	
$ 8 Phenol-d5	99	5.103	5.102	0.001	96	124383	40.0	33.9	
$ 9 Nitrobenzene-d5	82	6.224	6.224	0.000	95	108348	40.0	34.9	
$ 10 2-Fluorobiphenyl	172	8.377	8.383	-0.006	100	209001	40.0	35.4	
$ 11 2,4,6-Tribromophenol	330	10.055	10.060	-0.005	94	27464	40.0	34.3	
$ 12 p-Terphenyl-d14	244	12.277	12.282	-0.005	100	227898	40.0	38.9	
68 1,4-Dioxane	88		1.507					ND	
69 N-Nitrosodimethylamine	42		1.780					ND	
70 Pyridine	52		1.822					ND	
15 Lidocaine	1		2.170					ND	
59 o-Anisidine	1		2.170					ND	
52 Chlorotoluene N.O.S	1		2.170					ND	
49 Chlorobenzotrifluoride N.O	1		2.170					ND	
25 5-Ethyl-5-phenyl barbituri	1		2.170					ND	
33 2-Chlorotoluene	91		2.170					ND	
72 2-Picoline	93		2.837					ND	
73 N-Nitrosomethylethylamine	88		3.024					ND	
249 Acrylamide	44		3.521					ND	
74 Methyl methanesulfonate	80		3.526					ND	
77 N-Nitrosodiethylamine	102		4.114					ND	
78 Ethyl methanesulfonate	79		4.557					ND	
80 Benzaldehyde	77		4.953					ND	
82 Aniline	93		5.108					ND	
81 Phenol	94		5.118					ND	
85 Pentachloroethane	167		5.188					ND	
83 Bis(2-chloroethyl)ether	93		5.209					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
84 2-Chlorophenol	128		5.257					ND	
263 n-Decane	57		5.364					ND	
87 1,3-Dichlorobenzene	146		5.455					ND	
88 1,4-Dichlorobenzene	146		5.546					ND	
90 Benzyl alcohol	108		5.727					ND	
91 1,2-Dichlorobenzene	146		5.738					ND	
248 Indene	115		5.850					ND	
92 2-Methylphenol	108		5.888					ND	
93 2,2'-oxybis[1-chloropropan	45		5.909					ND	
97 N-Nitrosopyrrolidine	100		6.037					ND	
94 Acetophenone	105		6.043					ND	
95 N-Nitrosodi-n-propylamine	70		6.064					ND	
98 N-Nitrosomorpholine	56		6.085					ND	
96 4-Methylphenol	108		6.091					ND	
100 2-Toluidine	106		6.112					ND	
101 4-Methylbenzenamine	106		6.128					ND	
99 Hexachloroethane	117		6.155					ND	
102 Nitrobenzene	77		6.246					ND	
105 N-Nitrosopiperidine	114		6.449					ND	
106 Isophorone	82		6.545					ND	
17 2,4-Dichlorotoluene	125		6.561					ND	
109 2-Chloroaniline	127		6.625					ND	
107 2-Nitrophenol	139		6.641					ND	
58 1,3,5-Trichlorobenzene	180		6.678					ND	
75 4-Chloropyridine	78		6.691					ND	
108 2,4-Dimethylphenol	107		6.726					ND	
76 3-Chloropyridine	78		6.768					ND	
110 Tetraethyl lead	237		6.791					ND	
113 o,o',o''-Triethylphosphoro	198		6.828					ND	
111 Bis(2-chloroethoxy)methane	93		6.833					ND	
114 2,4-Dichlorophenol	162		6.935					ND	
115 Benzoic acid	105		6.956					ND	
116 alpha,alpha-Dimethyl phene	58		7.026					ND	
117 1,2,4-Trichlorobenzene	180		7.031					ND	
118 Naphthalene	128		7.111					ND	
37 4-Chlorophenol	128		7.138					ND	
120 Alpha-Terpineol	59		7.170					ND	
119 4-Chloroaniline	127		7.197					ND	
122 2,6-Dichlorophenol	162		7.207					ND	
79 2-Chloropyridine	78		7.254					ND	
123 Hexachloropropene	213		7.255					ND	
121 Hexachlorobutadiene	225		7.287					ND	
125 Quinoline	129		7.528					ND	
124 Caprolactam	113		7.624					ND	
126 p-Phenylene diamine	108		7.635					ND	
127 N-Nitrosodi-n-butylamine	84		7.640					ND	
129 4-Chloro-3-methylphenol	107		7.806					ND	
132 Safrole, Total	162		7.875					ND	
267 CBF-400	214		7.900					ND	
272 2,4,5-Trichlorotoluene	159		7.923					ND	
131 2-Methylnaphthalene	142		7.939					ND	
86 p-Fluoroaniline	111		7.970					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
133 Phthalic anhydride	104		8.041					ND	
251 1-Methylnaphthalene	142		8.051					ND	
134 Hexachlorocyclopentadiene	237		8.137					ND	
135 1,2,4,5-Tetrachlorobenzene	216		8.142					ND	
291 Isosafrole Peak 1	162		8.222					ND	
137 2,4,6-Trichlorophenol	196		8.286					ND	
274 2,3-Dichlorobenzenamine	161		8.297					ND	
138 2,4,5-Trichlorophenol	196		8.329					ND	
142 Isosafrole	162		8.484					ND	
293 Isosafrole Peak 2	162		8.484					ND	
275 1,2,3,4 -Tetrachlorobenzen	216		8.489					ND	
140 1,1'-Biphenyl	154		8.495					ND	
141 2-Chloronaphthalene	162		8.505					ND	
253 1-Chloronaphthalene	162		8.548					ND	
13 N-Methylaniline	106		8.589					ND	
143 2-Nitroaniline	65		8.639					ND	
145 1,4-Naphthoquinone	158		8.735					ND	
144 Dicyclohexylamine	138		8.767					ND	
147 1,4-Dinitrobenzene	168		8.821					ND	
103 2,6-Dichloropyridine	112		8.872					ND	
146 Dimethyl phthalate	163		8.874					ND	
148 1,3-Dinitrobenzene	168		8.890					ND	
149 2,6-Dinitrotoluene	165		8.933					ND	
150 Acenaphthylene	152		8.981					ND	
151 3-Nitroaniline	138		9.120					ND	
152 Acenaphthene	153		9.189					ND	
153 2,4-Dinitrophenol	184		9.248					ND	
154 4-Nitrophenol	109		9.355					ND	
157 Pentachlorobenzene	250		9.376					ND	
155 Dibenzofuran	168		9.392					ND	
156 2,4-Dinitrotoluene	165		9.398					ND	
159 1-Naphthylamine	143		9.504					ND	
264 2,3,5,6-Tetrachlorophenol	232		9.526					ND	
158 2,3,4,6-Tetrachlorophenol	232		9.547					ND	
160 2-Naphthylamine	143		9.601					ND	
161 Diethyl phthalate	149		9.702					ND	
256 Hexadecane	57		9.739					ND	
162 Fluorene	166		9.788					ND	
166 Thionazin	97		9.804					ND	
163 4-Chlorophenyl phenyl ethe	204		9.804					ND	
164 4-Nitroaniline	138		9.830					ND	
167 N-Nitro-o-toluidine	152		9.836					ND	
165 4,6-Dinitro-2-methylphenol	198		9.873					ND	
169 Diphenylamine	169		9.942					ND	
168 N-Nitrosodiphenylamine	169		9.942					ND	
172 Tributyl phosphate	99		9.975					ND	
170 1,2-Diphenylhydrazine	77		9.980					ND	
171 Azobenzene	77		9.980					ND	
230 Benzeneacetic acid (TIC)	91		10.016					ND	
266 NVF-400	82		10.154					ND	
173 Sulfotepp	322		10.167					ND	
35 n,n'-Dimethylacetamide	44		10.170					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
174 1,3,5-Trinitrobenzene	213		10.284					ND	
176 Diallate	43		10.290					ND	
294 Diallate Peak 1	43		10.290					ND	
177 Phorate	75		10.290					ND	
178 Phenacetin	108		10.322					ND	
175 4-Bromophenyl phenyl ether	248		10.338					ND	
296 Diallate Peak 2	43		10.375					ND	
36 Benzeneacetonitrile	117		10.395					ND	
179 Hexachlorobenzene	284		10.397					ND	
181 Dimethoate	87		10.461					ND	
184 Simazine	201		10.514					ND	
180 Atrazine	200		10.535					ND	
183 Pentachlorophenol	266		10.610					ND	
185 4-Aminobiphenyl	169		10.632					ND	
186 Pentachloronitrobenzene	237		10.642					ND	
187 Pronamide	173		10.717					ND	
265 n-Octadecane	57		10.733					ND	
188 Phenanthrene	178		10.808					ND	
190 Disulfoton	88		10.835					ND	
191 Dinoseb	211		10.835					ND	
189 Anthracene	178		10.856					ND	
192 Carbazole	167		11.027					ND	
193 Methyl parathion	109		11.193					ND	
194 Alachlor	160		11.198					ND	
276 2-Methylanthracene	192		11.369					ND	
195 Di-n-butyl phthalate	149		11.390					ND	
196 Ethyl Parathion	97		11.566					ND	
197 4-Nitroquinoline-1-oxide	190		11.577					ND	
198 Anthraquinone	180		11.599					ND	
199 Methapyrilene	58		11.663					ND	
200 Isodrin	193		11.812					ND	
201 Fluoranthene	202		11.935					ND	
203 1-Hydroxyanthraquinone	224		11.989					ND	
202 Benzidine	184		12.063					ND	
204 Pyrene	202		12.133					ND	
44 1-Methylcyclopentanol	71		12.261					ND	
292 Aramite Peak 1	185		12.293					ND	
205 Aramite, Total	185		12.357					ND	
295 Aramite Peak 2	185		12.357					ND	
207 1,4-Dihydroxyanthraquinone	240		12.400					ND	
206 p-Dimethylamino azobenzene	120		12.421					ND	
208 Chlorobenzilate	139		12.469					ND	
211 Famphur	218		12.667					ND	
210 Butyl benzyl phthalate	149		12.710					ND	
209 3,3'-Dimethylbenzidine	212		12.710					ND	
212 9-Octadecenamide	72		12.737					ND	
213 Kepone	272		12.742					ND	
214 2-Acetylaminofluorene	181		12.923					ND	
215 3,3'-Dichlorobenzidine	252		13.148					ND	
19 4,4'-Methylene bis(2-chlor	231		13.164					ND	
217 Benzo[a]anthracene	228		13.164					ND	
216 Bis(2-ethylhexyl) phthalat	149		13.191					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
218 Chrysene	228		13.196					ND	
254 6-Methylchrysene	242		13.586					ND	
220 Di-n-octyl phthalate	149		13.714					ND	
221 Benzo[b]fluoranthene	252		14.029					ND	
223 7,12-Dimethylbenz(a)anthra	256		14.040					ND	
222 Benzo[k]fluoranthene	252		14.051					ND	
273 Benzo[e]pyrene	252		14.254					ND	
225 Benzo[a]pyrene	252		14.275					ND	
224 Hexachlorophene	196		14.312					ND	
226 3-Methylcholanthrene	252		14.563					ND	
54 Dibenz[a,h]acridine	279		15.007					ND	
227 Indeno[1,2,3-cd]pyrene	276		15.189					ND	
228 Dibenz(a,h)anthracene	278		15.194					ND	
229 Benzo[g,h,i]perylene	276		15.434					ND	
269 CN-500	112		16.569					ND	
271 CU-600	58		17.253					ND	
268 CAG-800	149		17.465					ND	
231 Dibenzo[a,e]pyrene	302		17.523					ND	
270 CBF-500	161		17.947					ND	
297 2-Aminopyridine TIC	1		0.000					ND	
42 2-Chlorobenzotrifluoride	1		2.170					ND	
21 2,6-Dichlorotoluene	1		2.170					ND	
260 2,4-Dichlorotoluene TIC	1		2.170					ND	
61 4-Chlorobenzotrifluoride	1		2.170					ND	
39 4-Chlorotoluene	91		2.170					ND	
282 1,2,3-Trimethylbenzene	105		2.170					ND	
279 Benzophenone	1		2.170					ND	
246 Phenylmercaptan	110		2.170					ND	
30 3-Chlorobenzotrifluoride	1		2.170					ND	
65 Hexamethyldisiloxane TIC	1		2.170					ND	
259 2-Chlorobenzotrifluoride T	1		2.170					ND	
38 Tetramethyl lead TIC	1		2.170					ND	
289 1,4-Dioxane TIC	1		2.170					ND	
255 Dibenz(a,i)pyrene	1		2.170					ND	
56 7H-Dibenzo[c,g]carbazole	1		2.170					ND	
31 Pendimethalin	1		2.170					ND	
247 Octachlorostyrene	1		2.170					ND	
28 alpha,alpha-Dimethyl phene	1		2.170					ND	
57 2,4-Toluene diamine	1		2.170					ND	
280 4-tert-Octylphenol	1		2.170					ND	
22 Phenylacetic Acid	1		2.170					ND	
290 Photomirex TIC	1		2.170					ND	
261 3-Chlorobenzotrifluoride T	1		2.170					ND	
29 2,3-Dichlorophenol	1		2.170					ND	
16 Dibenzo[a,h]pyrene	1		2.170					ND	
281 Phenyl ether	1		2.170					ND	
250 n,n'-Dimethylaniline	1		2.170					ND	
284 4-Chloro-3-nitro-alpha,alp	1		2.170					ND	
258 4-Chlorobenzotrifluoride T	1		2.170					ND	
41 5-Methyl-o-Anisidine	1		2.170					ND	
257 2,6-Dichlorotoluene TIC	1		2.170					ND	
62 Dibenz[a,j]acridine	279		2.170					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
67 1-Bromopropane	1		2.170					ND	
34 3-Chlorotoluene	1		2.170					ND	
104 Pentachlorophenol_T	266		10.605					ND	
128 Benzidine_T	184		12.063					ND	
S 245 EPH Adjustment 1	1		2.170					ND	
S 232 Total Cresols	1		2.170					ND	
S 234 3 & 4 Methylphenol	108		8.667					ND	
S 233 3-Methylphenol	1		8.667					ND	
T 18 4,4'-Methylene bis(2-chlor	231		2.170					ND	
T 235 Benefin (TIC)	1		2.170					ND	
T 24 o-Anisidine TIC	108		2.170					ND	
T 14 2,4-Xylidine TIC	121	8.377	2.170	6.207	2	803		0.2012	
T 64 Tris(2,3-dibromopropyl)pho	201		2.170					ND	
T 236 Prometryn (TIC)	1		2.170					ND	
T 237 Pendimethalin (TIC)	252		2.170					ND	
T 55 5-Methyl-o-Anisidine TIC	122	12.277	2.170	10.107	1	24616		6.17	
T 23 1,3-phenylenediamine TIC	108	7.084	7.223	-0.139	34	38598		9.67	
T 238 1-Methylnaphthalene (TIC)	142		10.666					ND	
T 27 2,3,7,8-TCDD	322		11.700					ND	
T 239 trans Azobenzene (TIC)	1		12.861					ND	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

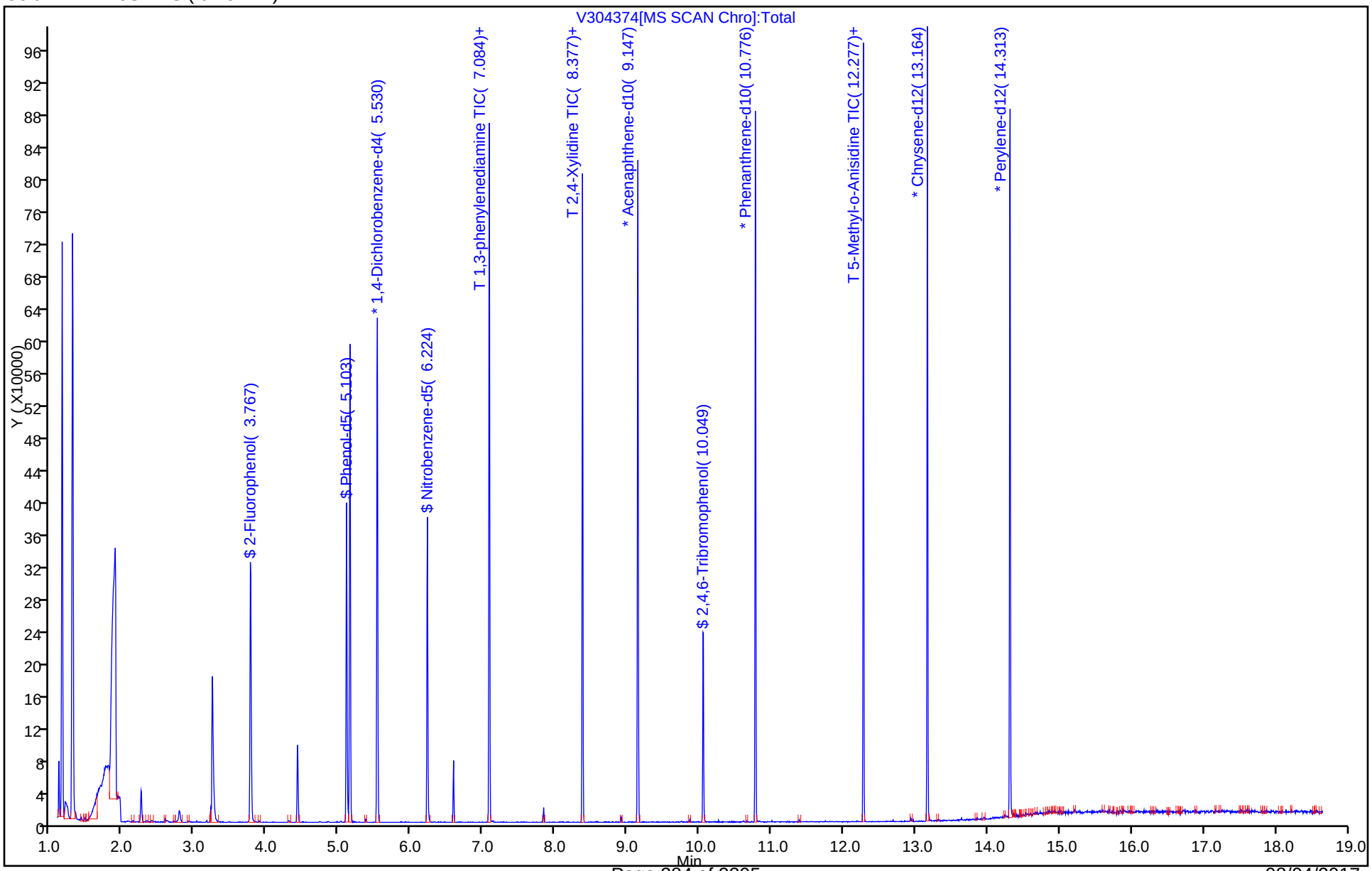
Report Date: 02-Aug-2017 15:46:08 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304374.D

Injection Date:	01-Aug-2017 19:43:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	MB 480-368504/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368504/2-A

Matrix: Solid | Lab File ID: V304375.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.58(g) | Date Analyzed: 08/01/2017 20:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1500		170	25
108-60-1	bis (2-chloroisopropyl) ether	1380		170	33
95-95-4	2,4,5-Trichlorophenol	1630		170	45
88-06-2	2,4,6-Trichlorophenol	1530		170	33
120-83-2	2,4-Dichlorophenol	1460		170	18
105-67-9	2,4-Dimethylphenol	1500		170	40
51-28-5	2,4-Dinitrophenol	2970		1600	770
121-14-2	2,4-Dinitrotoluene	1640		170	34
606-20-2	2,6-Dinitrotoluene	1650		170	20
91-58-7	2-Chloronaphthalene	1530		170	27
95-57-8	2-Chlorophenol	1330		170	30
91-57-6	2-Methylnaphthalene	1440		170	33
95-48-7	2-Methylphenol	1400		170	20
88-74-4	2-Nitroaniline	1710		320	25
88-75-5	2-Nitrophenol	1480		170	47
91-94-1	3,3'-Dichlorobenzidine	3060		320	200
99-09-2	3-Nitroaniline	1510		320	46
534-52-1	4,6-Dinitro-2-methylphenol	2830		320	170
101-55-3	4-Bromophenyl phenyl ether	1650		170	24
59-50-7	4-Chloro-3-methylphenol	1570		170	41
106-47-8	4-Chloroaniline	1270		170	41
7005-72-3	4-Chlorophenyl phenyl ether	1560		170	21
106-44-5	4-Methylphenol	1420		320	20
100-01-6	4-Nitroaniline	1580		320	87
100-02-7	4-Nitrophenol	3150		320	120
83-32-9	Acenaphthene	1520		170	25
208-96-8	Acenaphthylene	1550		170	22
98-86-2	Acetophenone	1360		170	23
120-12-7	Anthracene	1590		170	41
1912-24-9	Atrazine	3420		170	58
100-52-7	Benzaldehyde	1990		170	130
56-55-3	Benzo(a)anthracene	1610		170	17
50-32-8	Benzo(a)pyrene	1630		170	25
205-99-2	Benzo(b)fluoranthene	1720		170	26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368504/2-A

Matrix: Solid | Lab File ID: V304375.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.58(g) | Date Analyzed: 08/01/2017 20:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1770		170	18
207-08-9	Benzo(k)fluoranthene	1500		170	22
111-91-1	Bis(2-chloroethoxy)methane	1420		170	35
111-44-4	Bis(2-chloroethyl)ether	1330		170	22
117-81-7	Bis(2-ethylhexyl) phthalate	1640		170	57
85-68-7	Butyl benzyl phthalate	1620		170	27
105-60-2	Caprolactam	3170		170	50
86-74-8	Carbazole	1650		170	20
218-01-9	Chrysene	1620		170	37
84-74-2	Di-n-butyl phthalate	1640		170	28
117-84-0	Di-n-octyl phthalate	1690		170	20
53-70-3	Dibenz(a,h)anthracene	1770		170	29
132-64-9	Dibenzofuran	1510		170	20
84-66-2	Diethyl phthalate	1560		170	22
131-11-3	Dimethyl phthalate	1580		170	20
206-44-0	Fluoranthene	1640		170	18
86-73-7	Fluorene	1560		170	20
118-74-1	Hexachlorobenzene	1630		170	23
87-68-3	Hexachlorobutadiene	1360		170	25
77-47-4	Hexachlorocyclopentadiene	1560		170	23
67-72-1	Hexachloroethane	1230		170	22
193-39-5	Indeno(1,2,3-cd)pyrene	1740		170	21
78-59-1	Isophorone	1430		170	35
621-64-7	N-Nitrosodi-n-propylamine	1390		170	28
86-30-6	N-Nitrosodiphenylamine	1600		170	140
91-20-3	Naphthalene	1390		170	22
98-95-3	Nitrobenzene	1430		170	19
87-86-5	Pentachlorophenol	3060		320	170
85-01-8	Phenanthrene	1620		170	25
108-95-2	Phenol	1380		170	26
129-00-0	Pyrene	1540		170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368504/2-A

Matrix: Solid | Lab File ID: V304375.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.58(g) | Date Analyzed: 08/01/2017 20:09

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	101		54-120
321-60-8	2-Fluorobiphenyl	92		60-120
367-12-4	2-Fluorophenol	85		52-120
4165-60-0	Nitrobenzene-d5	92		53-120
1718-51-0	p-Terphenyl-d14	94		65-121
4165-62-2	Phenol-d5	87		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304375.D
Lims ID: LCS 480-368504/2-A
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2017 20:09:30 ALS Bottle#: 16 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064505-006
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:14:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.525	5.524	0.001	96	91400	40.0	40.0	
* 2 Naphthalene-d8	136	7.084	7.084	0.000	99	308951	40.0	40.0	
* 3 Acenaphthene-d10	164	9.147	9.152	-0.005	97	152360	40.0	40.0	
* 4 Phenanthrene-d10	188	10.781	10.781	0.000	97	277394	40.0	40.0	
* 5 Chrysene-d12	240	13.169	13.175	-0.006	97	327004	40.0	40.0	
* 6 Perylene-d12	264	14.318	14.318	0.000	99	345573	40.0	40.0	
$ 7 2-Fluorophenol	112	3.762	3.751	0.011	95	97868	40.0	34.1	
$ 8 Phenol-d5	99	5.103	5.102	0.000	95	118953	40.0	34.7	
$ 9 Nitrobenzene-d5	82	6.224	6.224	0.000	94	104244	40.0	36.8	
$ 10 2-Fluorobiphenyl	172	8.383	8.383	0.000	100	208359	40.0	36.9	
$ 11 2,4,6-Tribromophenol	330	10.060	10.060	0.000	93	32987	40.0	40.5	
$ 12 p-Terphenyl-d14	244	12.277	12.282	-0.005	100	250304	40.0	37.6	
68 1,4-Dioxane	88	1.507	1.507	0.000	87	27941	50.0	22.5	
69 N-Nitrosodimethylamine	42	1.780	1.780	0.000	90	77771	50.0	42.2	
70 Pyridine	52	1.822	1.822	0.000	77	208129	100.0	53.4	
80 Benzaldehyde	77	4.953	4.953	0.000	91	149340	100.0	60.9	
82 Aniline	93	5.108	5.108	0.000	88	162284	50.0	35.3	
81 Phenol	94	5.119	5.118	0.001	97	161471	50.0	42.1	
83 Bis(2-chloroethyl)ether	93	5.209	5.209	0.000	90	116382	50.0	40.8	
84 2-Chlorophenol	128	5.263	5.257	0.006	96	123334	50.0	40.8	
263 n-Decane	57	5.364	5.364	0.000	90	172100	50.0	32.6	
87 1,3-Dichlorobenzene	146	5.455	5.455	0.000	97	131676	50.0	37.6	
88 1,4-Dichlorobenzene	146	5.546	5.546	0.000	93	133388	50.0	37.3	
90 Benzyl alcohol	108	5.722	5.727	-0.005	89	77975	50.0	42.7	
91 1,2-Dichlorobenzene	146	5.738	5.738	0.000	96	127922	50.0	39.1	
248 Indene	115	5.850	5.850	0.000	96	803259	200.0	162.6	
92 2-Methylphenol	108	5.888	5.888	0.000	98	109865	50.0	43.0	
93 2,2'-oxybis[1-chloropropan	45	5.904	5.909	-0.005	93	220364	50.0	42.1	
94 Acetophenone	105	6.043	6.043	0.000	93	164140	50.0	41.6	
95 N-Nitrosodi-n-propylamine	70	6.059	6.064	-0.005	89	90333	50.0	42.5	
96 4-Methylphenol	108	6.085	6.091	-0.006	91	113623	50.0	43.3	
99 Hexachloroethane	117	6.155	6.155	0.000	92	46655	50.0	37.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
102 Nitrobenzene	77	6.246	6.246	0.000	94	125788	50.0	43.6	
106 Isophorone	82	6.545	6.545	0.000	97	228218	50.0	43.8	
107 2-Nitrophenol	139	6.641	6.641	0.000	97	57420	50.0	45.3	
108 2,4-Dimethylphenol	107	6.727	6.726	0.001	98	128125	50.0	45.9	
111 Bis(2-chloroethoxy)methane	93	6.833	6.833	0.000	94	132218	50.0	43.3	
114 2,4-Dichlorophenol	162	6.935	6.935	0.000	97	106257	50.0	44.6	
115 Benzoic acid	105	6.930	6.956	-0.026	90	239609	200.0	147.2	
117 1,2,4-Trichlorobenzene	180	7.031	7.031	0.000	94	110950	50.0	42.1	
118 Naphthalene	128	7.111	7.111	0.000	98	334154	50.0	42.5	
119 4-Chloroaniline	127	7.197	7.197	0.000	95	126689	50.0	38.9	
122 2,6-Dichlorophenol	162	7.202	7.207	-0.005	91	103404	50.0	44.8	
121 Hexachlorobutadiene	225	7.282	7.287	-0.005	95	72511	50.0	41.5	
124 Caprolactam	113	7.635	7.624	0.011	73	75046	100.0	96.8	
129 4-Chloro-3-methylphenol	107	7.811	7.806	0.005	95	108887	50.0	48.1	
131 2-Methylnaphthalene	142	7.934	7.939	-0.005	91	221639	50.0	43.9	
251 1-Methylnaphthalene	142	8.051	8.051	0.000	98	209455	50.0	45.1	
134 Hexachlorocyclopentadiene	237	8.137	8.137	0.000	96	81601	50.0	47.8	
135 1,2,4,5-Tetrachlorobenzene	216	8.142	8.142	0.000	97	117428	50.0	46.1	
137 2,4,6-Trichlorophenol	196	8.286	8.286	0.000	93	75046	50.0	46.8	
138 2,4,5-Trichlorophenol	196	8.335	8.329	0.006	94	81844	50.0	49.9	
140 1,1'-Biphenyl	154	8.489	8.495	-0.006	96	280254	50.0	45.8	
141 2-Chloronaphthalene	162	8.500	8.505	-0.005	98	227819	50.0	46.7	
143 2-Nitroaniline	65	8.639	8.639	0.000	79	82611	50.0	52.4	
146 Dimethyl phthalate	163	8.869	8.874	-0.005	99	275458	50.0	48.3	
148 1,3-Dinitrobenzene	168	8.890	8.890	0.000	82	39405	50.0	44.3	
149 2,6-Dinitrotoluene	165	8.928	8.933	-0.005	92	61180	50.0	50.4	
150 Acenaphthylene	152	8.981	8.981	0.000	98	336764	50.0	47.5	
151 3-Nitroaniline	138	9.120	9.120	0.000	88	57086	50.0	46.1	
152 Acenaphthene	153	9.184	9.189	-0.005	94	218407	50.0	46.6	
153 2,4-Dinitrophenol	184	9.243	9.248	-0.005	86	62707	100.0	90.9	
154 4-Nitrophenol	109	9.350	9.355	-0.005	94	81376	100.0	96.4	
155 Dibenzofuran	168	9.387	9.392	-0.005	95	315848	50.0	46.2	
156 2,4-Dinitrotoluene	165	9.398	9.398	0.000	89	80255	50.0	50.1	
158 2,3,4,6-Tetrachlorophenol	232	9.547	9.547	0.000	73	67684	50.0	51.4	
161 Diethyl phthalate	149	9.697	9.702	-0.005	97	272552	50.0	47.6	
256 Hexadecane	57	9.740	9.739	0.001	70	230681	50.0	46.9	
162 Fluorene	166	9.788	9.788	0.000	95	259103	50.0	47.6	
163 4-Chlorophenyl phenyl ethe	204	9.804	9.804	0.000	94	130085	50.0	47.7	
164 4-Nitroaniline	138	9.825	9.830	-0.005	80	59393	50.0	48.5	
165 4,6-Dinitro-2-methylphenol	198	9.868	9.873	-0.005	80	77266	100.0	86.6	
169 Diphenylamine	169	9.937	9.942	-0.005	93	187285	42.8	41.9	
168 N-Nitrosodiphenylamine	169	9.937	9.942	-0.005	64	187285	50.0	49.0	
170 1,2-Diphenylhydrazine	77	9.980	9.980	0.000	96	263448	50.0	47.7	
171 Azobenzene	77	9.980	9.980	0.000	98	263448	50.0	48.9	
175 4-Bromophenyl phenyl ether	248	10.333	10.338	-0.005	67	81815	50.0	50.4	
179 Hexachlorobenzene	284	10.397	10.397	0.000	95	89895	50.0	49.9	
180 Atrazine	200	10.536	10.535	0.001	91	162856	100.0	104.5	
183 Pentachlorophenol	266	10.605	10.610	-0.005	92	88527	100.0	93.6	
265 n-Octadecane	57	10.733	10.733	0.000	84	236236	50.0	49.4	
188 Phenanthrene	178	10.803	10.808	-0.005	97	386279	50.0	49.4	
189 Anthracene	178	10.856	10.856	0.000	97	398261	50.0	48.7	
192 Carbazole	167	11.027	11.027	0.000	96	355393	50.0	50.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
195 Di-n-butyl phthalate	149	11.390	11.390	0.000	100	454270	50.0	50.2	
201 Fluoranthene	202	11.930	11.935	-0.005	97	431951	50.0	50.3	
202 Benzidine	184	12.058	12.063	-0.005	99	233113	100.0	41.0	
204 Pyrene	202	12.128	12.133	-0.005	98	438211	50.0	47.2	
210 Butyl benzyl phthalate	149	12.705	12.710	-0.005	98	208576	50.0	49.4	
215 3,3'-Dichlorobenzidine	252	13.148	13.148	0.000	73	312514	100.0	93.7	
217 Benzo[a]anthracene	228	13.164	13.164	0.000	97	459819	50.0	49.2	
216 Bis(2-ethylhexyl) phthalat	149	13.191	13.191	0.000	95	297861	50.0	50.1	
218 Chrysene	228	13.191	13.196	-0.005	96	430236	50.0	49.7	
220 Di-n-octyl phthalate	149	13.709	13.714	-0.005	99	523357	50.0	51.8	
221 Benzo[b]fluoranthene	252	14.029	14.029	0.000	96	519602	50.0	52.7	
222 Benzo[k]fluoranthene	252	14.051	14.051	0.000	98	468138	50.0	45.8	
225 Benzo[a]pyrene	252	14.275	14.275	0.000	76	458343	50.0	49.9	
227 Indeno[1,2,3-cd]pyrene	276	15.189	15.189	0.000	98	553751	50.0	53.3	
228 Dibenz(a,h)anthracene	278	15.194	15.194	0.000	89	473234	50.0	54.2	
229 Benzo[g,h,i]perylene	276	15.434	15.434	0.000	98	473757	50.0	54.1	
S 233 3-Methylphenol	1				0		50.0	43.3	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

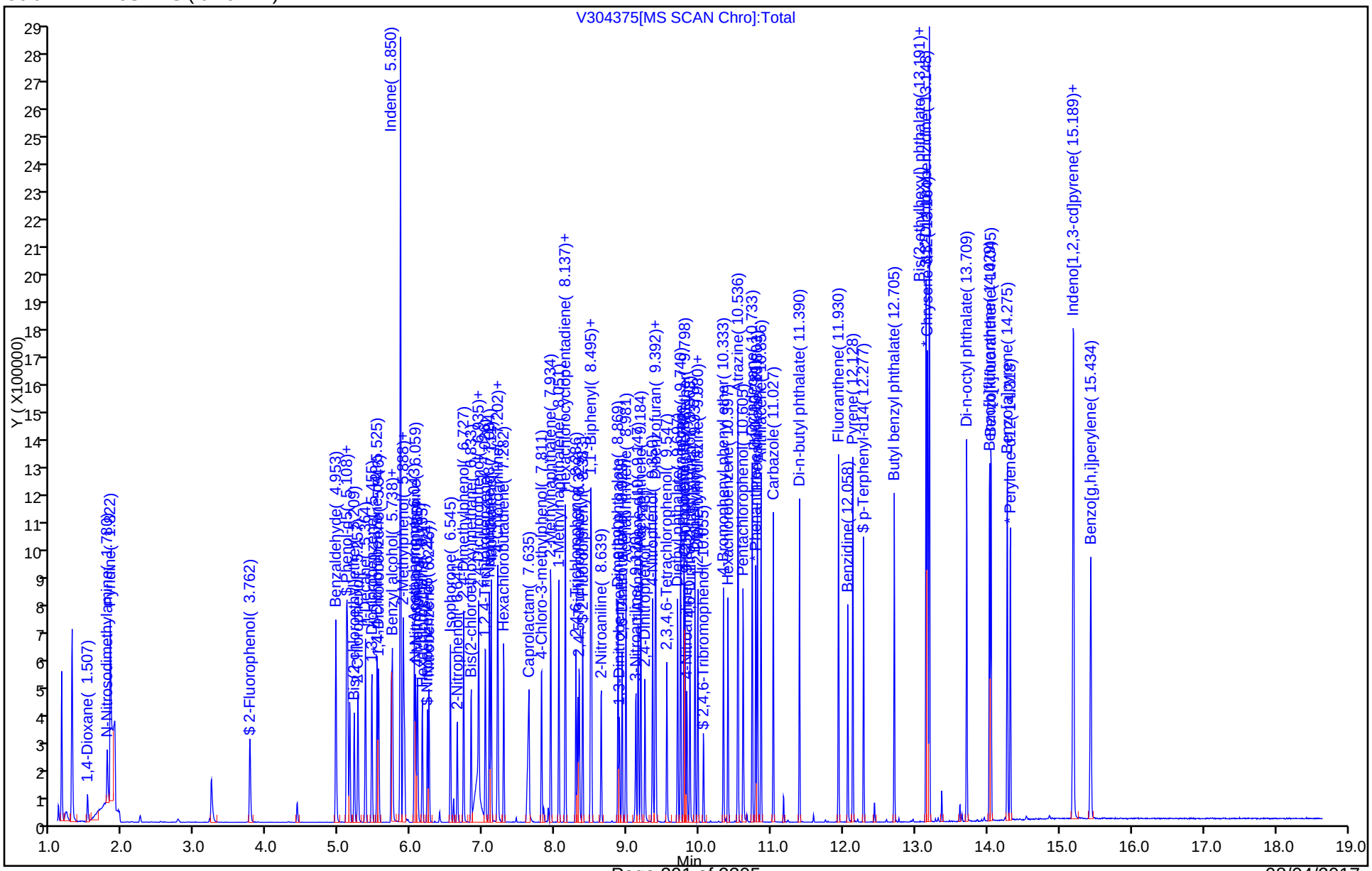
Report Date: 02-Aug-2017 15:46:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304375.D

Injection Date:	01-Aug-2017 20:09:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	LCS 480-368504/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS | Lab Sample ID: 480-121501-3 MS

Matrix: Solid | Lab File ID: V304377.D

Analysis Method: 8270D | Date Collected: 07/21/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.18(g) | Date Analyzed: 08/01/2017 21:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1790	J	2100	310
108-60-1	bis (2-chloroisopropyl) ether	1450	J	2100	420
95-95-4	2,4,5-Trichlorophenol	1620	J	2100	560
88-06-2	2,4,6-Trichlorophenol	1600	J	2100	420
120-83-2	2,4-Dichlorophenol	1470	J	2100	220
105-67-9	2,4-Dimethylphenol	1560	J	2100	500
51-28-5	2,4-Dinitrophenol	ND		20000	9600
121-14-2	2,4-Dinitrotoluene	1460	J	2100	430
606-20-2	2,6-Dinitrotoluene	1580	J	2100	240
91-58-7	2-Chloronaphthalene	1740	J	2100	340
95-57-8	2-Chlorophenol	1370	J	2100	380
91-57-6	2-Methylnaphthalene	1590	J	2100	420
95-48-7	2-Methylphenol	1450	J	2100	240
88-74-4	2-Nitroaniline	1580	J	4000	310
88-75-5	2-Nitrophenol	1360	J	2100	590
91-94-1	3,3'-Dichlorobenzidine	3490	J	4000	2400
99-09-2	3-Nitroaniline	1320	J	4000	580
534-52-1	4,6-Dinitro-2-methylphenol	3510	J	4000	2100
101-55-3	4-Bromophenyl phenyl ether	1870	J	2100	290
59-50-7	4-Chloro-3-methylphenol	1550	J	2100	510
106-47-8	4-Chloroaniline	1260	J	2100	510
7005-72-3	4-Chlorophenyl phenyl ether	1770	J	2100	260
106-44-5	4-Methylphenol	1530	J	4000	240
100-01-6	4-Nitroaniline	1270	J	4000	1100
100-02-7	4-Nitrophenol	3990	J	4000	1500
83-32-9	Acenaphthene	1700	J	2100	310
208-96-8	Acenaphthylene	1700	J	2100	270
98-86-2	Acetophenone	1390	J	2100	280
120-12-7	Anthracene	1780	J	2100	510
1912-24-9	Atrazine	3500		2100	720
100-52-7	Benzaldehyde	1820	J	2100	1700
56-55-3	Benzo(a)anthracene	2010	J	2100	210
50-32-8	Benzo(a)pyrene	1960	J	2100	310
205-99-2	Benzo(b)fluoranthene	1990	J	2100	330

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS | Lab Sample ID: 480-121501-3 MS

Matrix: Solid | Lab File ID: V304377.D

Analysis Method: 8270D | Date Collected: 07/21/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.18(g) | Date Analyzed: 08/01/2017 21:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	2230		2100	220
207-08-9	Benzo(k)fluoranthene	1920	J	2100	270
111-91-1	Bis(2-chloroethoxy)methane	1480	J	2100	440
111-44-4	Bis(2-chloroethyl)ether	1310	J	2100	270
117-81-7	Bis(2-ethylhexyl) phthalate	1910	J	2100	710
85-68-7	Butyl benzyl phthalate	1810	J	2100	340
105-60-2	Caprolactam	3120		2100	620
86-74-8	Carbazole	1780	J	2100	240
218-01-9	Chrysene	2120		2100	470
84-74-2	Di-n-butyl phthalate	1770	J	2100	360
117-84-0	Di-n-octyl phthalate	1850	J	2100	240
53-70-3	Dibenz(a,h)anthracene	2050	J	2100	370
132-64-9	Dibenzofuran	1800	J	2100	240
84-66-2	Diethyl phthalate	1710	J	2100	270
131-11-3	Dimethyl phthalate	1720	J	2100	240
206-44-0	Fluoranthene	2000	J	2100	220
86-73-7	Fluorene	1840	J	2100	240
118-74-1	Hexachlorobenzene	1750	J	2100	280
87-68-3	Hexachlorobutadiene	1430	J	2100	310
77-47-4	Hexachlorocyclopentadiene	1200	J	2100	280
67-72-1	Hexachloroethane	1090	J	2100	270
193-39-5	Indeno(1,2,3-cd)pyrene	2090	J	2100	260
78-59-1	Isophorone	1400	J	2100	440
621-64-7	N-Nitrosodi-n-propylamine	1300	J	2100	360
86-30-6	N-Nitrosodiphenylamine	1840	J	2100	1700
91-20-3	Naphthalene	1490	J	2100	270
98-95-3	Nitrobenzene	1280	J	2100	230
87-86-5	Pentachlorophenol	3710	J	4000	2100
85-01-8	Phenanthrene	2110		2100	310
108-95-2	Phenol	1420	J	2100	320
129-00-0	Pyrene	2060	J	2100	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS | Lab Sample ID: 480-121501-3 MS

Matrix: Solid | Lab File ID: V304377.D

Analysis Method: 8270D | Date Collected: 07/21/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.18(g) | Date Analyzed: 08/01/2017 21:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	65		54-120
321-60-8	2-Fluorobiphenyl	84		60-120
367-12-4	2-Fluorophenol	59		52-120
4165-60-0	Nitrobenzene-d5	71		53-120
1718-51-0	p-Terphenyl-d14	93		65-121
4165-62-2	Phenol-d5	69		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304377.D
Lims ID: 480-121501-A-3-D MS
Client ID: TP-11
Sample Type: MS
Inject. Date: 01-Aug-2017 21:01:30 ALS Bottle#: 18 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0064505-008
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:17:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.530	5.524	0.006	97	97768	4.00	40.0	
* 2 Naphthalene-d8	136	7.084	7.084	0.000	100	339216	4.00	40.0	
* 3 Acenaphthene-d10	164	9.146	9.152	-0.006	97	163407	4.00	40.0	
* 4 Phenanthrene-d10	188	10.781	10.781	0.000	97	293032	4.00	40.0	
* 5 Chrysene-d12	240	13.169	13.175	-0.006	97	309656	4.00	40.0	
* 6 Perylene-d12	264	14.318	14.318	0.000	100	327617	4.00	40.0	
$ 7 2-Fluorophenol	112	3.772	3.751	0.021	91	7238	4.00	2.36	
$ 8 Phenol-d5	99	5.102	5.102	0.000	94	10143	4.00	2.76	
$ 9 Nitrobenzene-d5	82	6.230	6.224	0.006	94	8786	4.00	2.82	
$ 10 2-Fluorobiphenyl	172	8.383	8.383	0.000	98	20405	4.00	3.37	
$ 11 2,4,6-Tribromophenol	330	10.055	10.060	-0.005	88	2242	4.00	2.61	
$ 12 p-Terphenyl-d14	244	12.277	12.282	-0.005	99	23332	4.00	3.70	
80 Benzaldehyde	77	4.963	4.953	0.010	89	11683	10.0	4.45	
81 Phenol	94	5.118	5.118	0.000	80	14281	5.00	3.48	
83 Bis(2-chloroethyl)ether	93	5.215	5.209	0.006	85	9795	5.00	3.21	
84 2-Chlorophenol	128	5.263	5.257	0.006	93	10845	5.00	3.35	
92 2-Methylphenol	108	5.888	5.888	0.000	97	9726	5.00	3.56	
93 2,2'-oxybis[1-chloropropan	45	5.904	5.909	-0.005	91	19892	5.00	3.55	
94 Acetophenone	105	6.048	6.043	0.005	95	14343	5.00	3.40	
95 N-Nitrosodi-n-propylamine	70	6.064	6.064	0.000	92	7237	5.00	3.19	
96 4-Methylphenol	108	6.085	6.091	-0.006	89	10493	5.00	3.74	
99 Hexachloroethane	117	6.155	6.155	0.000	86	3551	5.00	2.68	
102 Nitrobenzene	77	6.251	6.246	0.005	93	9956	5.00	3.14	
106 Isophorone	82	6.545	6.545	0.000	96	19662	5.00	3.44	
107 2-Nitrophenol	139	6.641	6.641	0.000	93	4616	5.00	3.32	
108 2,4-Dimethylphenol	107	6.726	6.726	0.000	96	11679	5.00	3.81	
111 Bis(2-chloroethoxy)methane	93	6.833	6.833	0.000	90	12175	5.00	3.64	
114 2,4-Dichlorophenol	162	6.940	6.935	0.005	93	9396	5.00	3.59	
118 Naphthalene	128	7.111	7.111	0.000	97	31391	5.00	3.64	
119 4-Chloroaniline	127	7.197	7.197	0.000	95	11037	5.00	3.09	
121 Hexachlorobutadiene	225	7.287	7.287	0.000	93	6724	5.00	3.51	
124 Caprolactam	113	7.565	7.624	-0.059	75	6495	10.0	7.63	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107	7.800	7.806	-0.006	96	9448	5.00	3.80	
131 2-Methylnaphthalene	142	7.934	7.939	-0.005	89	21514	5.00	3.88	
134 Hexachlorocyclopentadiene	237	8.137	8.137	0.000	93	5369	5.00	2.93	
137 2,4,6-Trichlorophenol	196	8.286	8.286	0.000	91	6735	5.00	3.92	
138 2,4,5-Trichlorophenol	196	8.329	8.329	0.000	94	6959	5.00	3.96	
140 1,1'-Biphenyl	154	8.489	8.495	-0.006	93	28820	5.00	4.39	
141 2-Chloronaphthalene	162	8.500	8.505	-0.005	96	22273	5.00	4.26	
143 2-Nitroaniline	65	8.634	8.639	-0.005	77	6530	5.00	3.86	
146 Dimethyl phthalate	163	8.863	8.874	-0.011	98	25772	5.00	4.21	
149 2,6-Dinitrotoluene	165	8.922	8.933	-0.011	92	5043	5.00	3.88	
150 Acenaphthylene	152	8.981	8.981	0.000	98	31611	5.00	4.16	
151 3-Nitroaniline	138	9.114	9.120	-0.006	89	4300	5.00	3.24	
152 Acenaphthene	153	9.184	9.189	-0.005	93	20920	5.00	4.16	
153 2,4-Dinitrophenol	184	9.248	9.248	0.000	1	492	10.0	7.78	
154 4-Nitrophenol	109	9.344	9.355	-0.011	94	4784	10.0	9.76	
155 Dibenzofuran	168	9.387	9.392	-0.005	95	32279	5.00	4.41	
156 2,4-Dinitrotoluene	165	9.398	9.398	0.000	43	6139	5.00	3.57	
161 Diethyl phthalate	149	9.691	9.702	-0.011	97	25729	5.00	4.19	
162 Fluorene	166	9.782	9.788	-0.006	97	26387	5.00	4.52	
163 4-Chlorophenyl phenyl ethe	204	9.798	9.804	-0.006	93	12649	5.00	4.32	
164 4-Nitroaniline	138	9.820	9.830	-0.010	75	4090	5.00	3.11	
165 4,6-Dinitro-2-methylphenol	198	9.868	9.873	-0.005	78	3897	10.0	8.59	
168 N-Nitrosodiphenylamine	169	9.937	9.942	-0.005	65	18194	5.00	4.51	
175 4-Bromophenyl phenyl ether	248	10.332	10.338	-0.006	65	7868	5.00	4.59	
179 Hexachlorobenzene	284	10.397	10.397	0.000	91	8131	5.00	4.27	
180 Atrazine	200	10.530	10.535	-0.005	91	14334	10.0	8.58	
183 Pentachlorophenol	266	10.605	10.610	-0.005	89	3852	10.0	9.10	
188 Phenanthrene	178	10.803	10.808	-0.005	95	42702	5.00	5.17	
189 Anthracene	178	10.851	10.856	-0.005	97	37633	5.00	4.36	
192 Carbazole	167	11.022	11.027	-0.005	96	32498	5.00	4.37	
195 Di-n-butyl phthalate	149	11.390	11.390	0.000	100	41353	5.00	4.33	
201 Fluoranthene	202	11.930	11.935	-0.005	96	44399	5.00	4.89	
204 Pyrene	202	12.127	12.133	-0.006	98	44335	5.00	5.04	
210 Butyl benzyl phthalate	149	12.704	12.710	-0.006	98	17713	5.00	4.43	
215 3,3'-Dichlorobenzidine	252	13.142	13.148	-0.006	73	27009	10.0	8.55	
217 Benzo[a]anthracene	228	13.158	13.164	-0.006	97	43506	5.00	4.92	
216 Bis(2-ethylhexyl) phthalat	149	13.191	13.191	0.000	95	26350	5.00	4.68	
218 Chrysene	228	13.191	13.196	-0.005	96	42648	5.00	5.20	
220 Di-n-octyl phthalate	149	13.709	13.714	-0.005	99	43277	5.00	4.52	
221 Benzo[b]fluoranthene	252	14.024	14.029	-0.005	96	45597	5.00	4.88	
222 Benzo[k]fluoranthene	252	14.045	14.051	-0.006	98	45592	5.00	4.71	
225 Benzo[a]pyrene	252	14.270	14.275	-0.005	76	41871	5.00	4.81	
227 Indeno[1,2,3-cd]pyrene	276	15.183	15.189	-0.006	98	50329	5.00	5.11	
228 Dibenz(a,h)anthracene	278	15.189	15.194	-0.005	87	41550	5.00	5.02	
229 Benzo[g,h,i]perylene	276	15.424	15.434	-0.010	98	45340	5.00	5.46	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

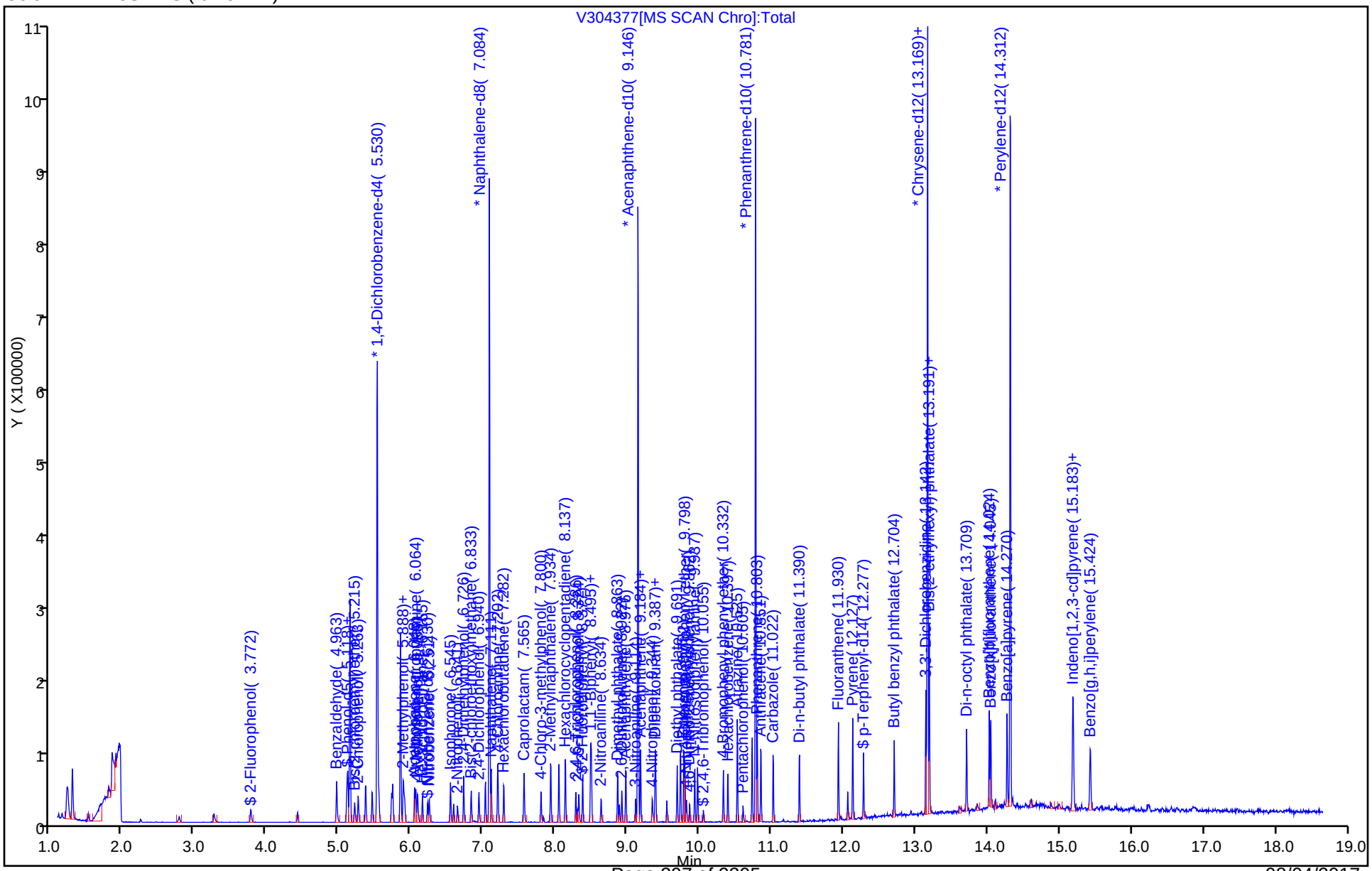
Report Date: 02-Aug-2017 15:46:16 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304377.D

Injection Date:	01-Aug-2017 21:01:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121501-A-3-D MS			Worklist Smp#:	8
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	18
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD | Lab Sample ID: 480-121501-3 MSD

Matrix: Solid | Lab File ID: V304378.D

Analysis Method: 8270D | Date Collected: 07/21/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.75(g) | Date Analyzed: 08/01/2017 21:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	1810	J	2000	300
108-60-1	bis (2-chloroisopropyl) ether	1580	J	2000	410
95-95-4	2,4,5-Trichlorophenol	1550	J	2000	550
88-06-2	2,4,6-Trichlorophenol	1520	J	2000	410
120-83-2	2,4-Dichlorophenol	1650	J	2000	220
105-67-9	2,4-Dimethylphenol	1770	J	2000	490
51-28-5	2,4-Dinitrophenol	ND		20000	9400
121-14-2	2,4-Dinitrotoluene	1470	J	2000	420
606-20-2	2,6-Dinitrotoluene	1650	J	2000	240
91-58-7	2-Chloronaphthalene	1760	J	2000	340
95-57-8	2-Chlorophenol	1520	J	2000	370
91-57-6	2-Methylnaphthalene	1800	J	2000	410
95-48-7	2-Methylphenol	1560	J	2000	240
88-74-4	2-Nitroaniline	1610	J	4000	300
88-75-5	2-Nitrophenol	1610	J	2000	580
91-94-1	3,3'-Dichlorobenzidine	3520	J	4000	2400
99-09-2	3-Nitroaniline	1390	J	4000	570
534-52-1	4,6-Dinitro-2-methylphenol	3640	J	4000	2000
101-55-3	4-Bromophenyl phenyl ether	1820	J	2000	290
59-50-7	4-Chloro-3-methylphenol	1710	J	2000	500
106-47-8	4-Chloroaniline	1510	J	2000	500
7005-72-3	4-Chlorophenyl phenyl ether	1830	J	2000	250
106-44-5	4-Methylphenol	1690	J	4000	240
100-01-6	4-Nitroaniline	1510	J	4000	1100
100-02-7	4-Nitrophenol	4240		4000	1400
83-32-9	Acenaphthene	1810	J	2000	300
208-96-8	Acenaphthylene	1820	J	2000	260
98-86-2	Acetophenone	1550	J	2000	280
120-12-7	Anthracene	1810	J	2000	500
1912-24-9	Atrazine	3880		2000	710
100-52-7	Benzaldehyde	2260		2000	1600
56-55-3	Benzo(a)anthracene	1970	J	2000	200
50-32-8	Benzo(a)pyrene	1860	J	2000	300
205-99-2	Benzo(b)fluoranthene	1850	J	2000	320

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD | Lab Sample ID: 480-121501-3 MSD

Matrix: Solid | Lab File ID: V304378.D

Analysis Method: 8270D | Date Collected: 07/21/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.75(g) | Date Analyzed: 08/01/2017 21:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	1970	J	2000	220
207-08-9	Benzo(k)fluoranthene	1980	J	2000	260
111-91-1	Bis(2-chloroethoxy)methane	1690	J	2000	430
111-44-4	Bis(2-chloroethyl)ether	1510	J	2000	260
117-81-7	Bis(2-ethylhexyl) phthalate	2150		2000	700
85-68-7	Butyl benzyl phthalate	1980	J	2000	340
105-60-2	Caprolactam	3450		2000	610
86-74-8	Carbazole	1880	J	2000	240
218-01-9	Chrysene	1990	J	2000	460
84-74-2	Di-n-butyl phthalate	1920	J	2000	350
117-84-0	Di-n-octyl phthalate	1710	J	2000	240
53-70-3	Dibenz(a,h)anthracene	1820	J	2000	360
132-64-9	Dibenzofuran	1840	J	2000	240
84-66-2	Diethyl phthalate	1850	J	2000	260
131-11-3	Dimethyl phthalate	1920	J	2000	240
206-44-0	Fluoranthene	1930	J	2000	220
86-73-7	Fluorene	1870	J	2000	240
118-74-1	Hexachlorobenzene	1880	J	2000	280
87-68-3	Hexachlorobutadiene	1620	J	2000	300
77-47-4	Hexachlorocyclopentadiene	1250	J	2000	280
67-72-1	Hexachloroethane	1320	J	2000	260
193-39-5	Indeno(1,2,3-cd)pyrene	1950	J	2000	250
78-59-1	Isophorone	1630	J	2000	430
621-64-7	N-Nitrosodi-n-propylamine	1640	J	2000	350
86-30-6	N-Nitrosodiphenylamine	1780	J	2000	1700
91-20-3	Naphthalene	1690	J	2000	260
98-95-3	Nitrobenzene	1500	J	2000	230
87-86-5	Pentachlorophenol	3640	J	4000	2000
85-01-8	Phenanthrene	1960	J	2000	300
108-95-2	Phenol	1500	J	2000	310
129-00-0	Pyrene	2150		2000	240

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD | Lab Sample ID: 480-121501-3 MSD

Matrix: Solid | Lab File ID: V304378.D

Analysis Method: 8270D | Date Collected: 07/21/2017 11:00

Extract. Method: 3550C | Date Extracted: 07/25/2017 07:50

Sample wt/vol: 30.75(g) | Date Analyzed: 08/01/2017 21:27

Con. Extract Vol.: 1(mL) | Dilution Factor: 10

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 369868 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	87		54-120
321-60-8	2-Fluorobiphenyl	88		60-120
367-12-4	2-Fluorophenol	79		52-120
4165-60-0	Nitrobenzene-d5	78		53-120
1718-51-0	p-Terphenyl-d14	100		65-121
4165-62-2	Phenol-d5	84		54-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304378.D
Lims ID: 480-121501-A-3-E MSD
Client ID: TP-11
Sample Type: MSD
Inject. Date: 01-Aug-2017 21:27:30 ALS Bottle#: 19 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 480-0064505-009
Operator ID: PJQ Instrument ID: HP5973V

Method: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 02-Aug-2017 15:46:00 Calib Date: 01-Aug-2017 17:04:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64504.b\V304368.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK034

First Level Reviewer: quirkp Date: 02-Aug-2017 12:18:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.524	5.524	0.000	97	101724	4.00	40.0	
* 2 Naphthalene-d8	136	7.084	7.084	0.000	100	362650	4.00	40.0	
* 3 Acenaphthene-d10	164	9.146	9.152	-0.006	97	184643	4.00	40.0	
* 4 Phenanthrene-d10	188	10.781	10.781	0.000	97	349087	4.00	40.0	
* 5 Chrysene-d12	240	13.169	13.175	-0.006	97	353720	4.00	40.0	
* 6 Perylene-d12	264	14.318	14.318	0.000	99	306076	4.00	40.0	
$ 7 2-Fluorophenol	112	3.762	3.751	0.011	93	10058	4.00	3.15	
$ 8 Phenol-d5	99	5.102	5.102	0.000	95	12801	4.00	3.35	
$ 9 Nitrobenzene-d5	82	6.224	6.224	0.000	94	10381	4.00	3.12	
$ 10 2-Fluorobiphenyl	172	8.377	8.383	-0.006	99	24198	4.00	3.54	
$ 11 2,4,6-Tribromophenol	330	10.055	10.060	-0.005	92	3555	4.00	3.47	
$ 12 p-Terphenyl-d14	244	12.277	12.282	-0.005	99	28677	4.00	3.98	
80 Benzaldehyde	77	4.958	4.953	0.005	90	15424	10.0	5.65	
81 Phenol	94	5.113	5.118	-0.005	80	16007	5.00	3.75	
83 Bis(2-chloroethyl)ether	93	5.209	5.209	0.000	88	11963	5.00	3.77	
84 2-Chlorophenol	128	5.257	5.257	0.000	92	12728	5.00	3.78	
92 2-Methylphenol	108	5.888	5.888	0.000	94	11074	5.00	3.89	
93 2,2'-oxybis[1-chloropropan	45	5.904	5.909	-0.005	93	23002	5.00	3.95	
94 Acetophenone	105	6.043	6.043	0.000	94	17011	5.00	3.88	
95 N-Nitrosodi-n-propylamine	70	6.059	6.064	-0.005	86	9690	5.00	4.10	
96 4-Methylphenol	108	6.085	6.091	-0.006	90	12317	5.00	4.22	
99 Hexachloroethane	117	6.155	6.155	0.000	86	4556	5.00	3.30	
102 Nitrobenzene	77	6.246	6.246	0.000	96	12659	5.00	3.74	
106 Isophorone	82	6.545	6.545	0.000	98	24821	5.00	4.06	
107 2-Nitrophenol	139	6.641	6.641	0.000	95	5981	5.00	4.02	
108 2,4-Dimethylphenol	107	6.726	6.726	0.000	98	14466	5.00	4.42	
111 Bis(2-chloroethoxy)methane	93	6.833	6.833	0.000	90	15112	5.00	4.22	
114 2,4-Dichlorophenol	162	6.940	6.935	0.005	97	11517	5.00	4.12	
118 Naphthalene	128	7.111	7.111	0.000	97	38942	5.00	4.22	
119 4-Chloroaniline	127	7.197	7.197	0.000	96	14430	5.00	3.78	
121 Hexachlorobutadiene	225	7.282	7.287	-0.005	93	8286	5.00	4.04	
124 Caprolactam	113	7.565	7.624	-0.059	73	7825	10.0	8.60	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
129 4-Chloro-3-methylphenol	107	7.800	7.806	-0.006	94	11347	5.00	4.27	
131 2-Methylnaphthalene	142	7.934	7.939	-0.005	93	26540	5.00	4.48	
134 Hexachlorocyclopentadiene	237	8.137	8.137	0.000	94	6438	5.00	3.11	
137 2,4,6-Trichlorophenol	196	8.286	8.286	0.000	92	7381	5.00	3.80	
138 2,4,5-Trichlorophenol	196	8.329	8.329	0.000	90	7700	5.00	3.88	
140 1,1'-Biphenyl	154	8.489	8.495	-0.006	95	33444	5.00	4.51	
141 2-Chloronaphthalene	162	8.500	8.505	-0.005	97	25894	5.00	4.38	
143 2-Nitroaniline	65	8.634	8.639	-0.005	80	7677	5.00	4.02	
146 Dimethyl phthalate	163	8.863	8.874	-0.011	98	33074	5.00	4.79	
149 2,6-Dinitrotoluene	165	8.927	8.933	-0.006	86	6056	5.00	4.12	
150 Acenaphthylene	152	8.981	8.981	0.000	98	38922	5.00	4.53	
151 3-Nitroaniline	138	9.114	9.120	-0.006	89	5213	5.00	3.48	
152 Acenaphthene	153	9.184	9.189	-0.005	95	25710	5.00	4.52	
153 2,4-Dinitrophenol	184	9.248	9.248	0.000	76	874	10.0	8.13	
154 4-Nitrophenol	109	9.344	9.355	-0.011	91	6298	10.0	10.6	
155 Dibenzofuran	168	9.387	9.392	-0.005	95	38043	5.00	4.60	
156 2,4-Dinitrotoluene	165	9.398	9.398	0.000	38	7138	5.00	3.67	
161 Diethyl phthalate	149	9.691	9.702	-0.011	98	31980	5.00	4.60	
162 Fluorene	166	9.782	9.788	-0.006	94	30733	5.00	4.66	
163 4-Chlorophenyl phenyl ethe	204	9.798	9.804	-0.006	91	15075	5.00	4.56	
164 4-Nitroaniline	138	9.820	9.830	-0.010	83	5578	5.00	3.76	
165 4,6-Dinitro-2-methylphenol	198	9.862	9.873	-0.011	86	5233	10.0	9.09	
168 N-Nitrosodiphenylamine	169	9.937	9.942	-0.005	65	21321	5.00	4.43	
175 4-Bromophenyl phenyl ether	248	10.332	10.338	-0.006	66	9299	5.00	4.55	
179 Hexachlorobenzene	284	10.397	10.397	0.000	93	10641	5.00	4.70	
180 Atrazine	200	10.530	10.535	-0.005	91	18286	10.0	9.68	
183 Pentachlorophenol	266	10.605	10.610	-0.005	84	4558	10.0	9.07	
188 Phenanthrene	178	10.803	10.808	-0.005	97	47977	5.00	4.88	
189 Anthracene	178	10.856	10.856	0.000	97	46460	5.00	4.52	
192 Carbazole	167	11.022	11.027	-0.005	96	41481	5.00	4.68	
195 Di-n-butyl phthalate	149	11.390	11.390	0.000	100	54681	5.00	4.80	
201 Fluoranthene	202	11.930	11.935	-0.005	97	52184	5.00	4.83	
204 Pyrene	202	12.127	12.133	-0.006	98	53997	5.00	5.38	
210 Butyl benzyl phthalate	149	12.704	12.710	-0.006	97	22598	5.00	4.95	
215 3,3'-Dichlorobenzidine	252	13.142	13.148	-0.006	73	31675	10.0	8.78	
217 Benzo[a]anthracene	228	13.159	13.164	-0.006	96	49637	5.00	4.91	
216 Bis(2-ethylhexyl) phthalat	149	13.191	13.191	0.000	94	34403	5.00	5.35	
218 Chrysene	228	13.191	13.196	-0.005	96	46598	5.00	4.98	
220 Di-n-octyl phthalate	149	13.709	13.714	-0.005	99	46505	5.00	4.25	
221 Benzo[b]fluoranthene	252	14.024	14.029	-0.005	95	40220	5.00	4.60	
222 Benzo[k]fluoranthene	252	14.045	14.051	-0.006	97	44726	5.00	4.94	
225 Benzo[a]pyrene	252	14.270	14.275	-0.005	76	37669	5.00	4.63	
227 Indeno[1,2,3-cd]pyrene	276	15.183	15.189	-0.006	98	44659	5.00	4.86	
228 Dibenz(a,h)anthracene	278	15.189	15.194	-0.005	90	35124	5.00	4.54	
229 Benzo[g,h,i]perylene	276	15.424	15.434	-0.010	97	38098	5.00	4.91	

Reagents:

MB_INTSTD_STK_00037 Amount Added: 20.00 Units: uL Run Reagent

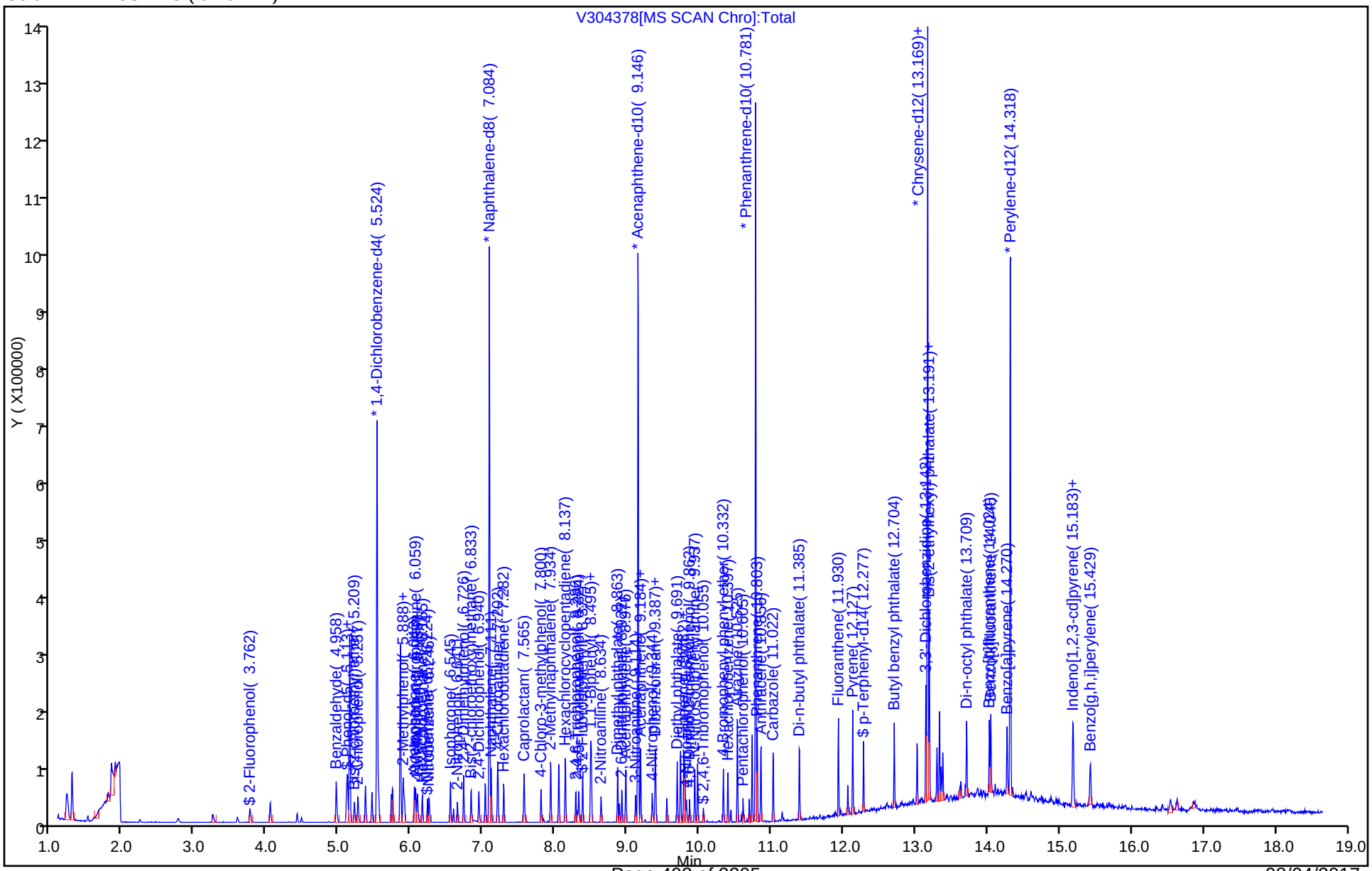
Report Date: 02-Aug-2017 15:46:17 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973V\20170801-64505.b\V304378.D

Injection Date:	01-Aug-2017 21:27:30	Instrument ID:	HP5973V	Operator ID:	PJQ
Lims ID:	480-121501-A-3-E MSD			Worklist Smp#:	9
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	19
Method:	V-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP5973V Start Date: 08/01/2017 14:28

Analysis Batch Number: 369864 End Date: 08/01/2017 17:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-369864/3		08/01/2017 14:28	1	V304362.D	RXI-5Sil MS 0.25(mm)
IC 480-369864/4		08/01/2017 14:54	1	V304363.D	RXI-5Sil MS 0.25(mm)
IC 480-369864/5		08/01/2017 15:20	1	V304364.D	RXI-5Sil MS 0.25(mm)
ICIS 480-369864/6		08/01/2017 15:46	1	V304365.D	RXI-5Sil MS 0.25(mm)
IC 480-369864/7		08/01/2017 16:12	1	V304366.D	RXI-5Sil MS 0.25(mm)
IC 480-369864/8		08/01/2017 16:38	1	V304367.D	RXI-5Sil MS 0.25(mm)
IC 480-369864/9		08/01/2017 17:04	1	V304368.D	RXI-5Sil MS 0.25(mm)
ICV 480-369864/10		08/01/2017 17:31	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP5973V Start Date: 08/01/2017 18:24

Analysis Batch Number: 369868 End Date: 08/02/2017 05:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-369868/2		08/01/2017 18:24	1	V304371.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-369868/3		08/01/2017 18:51	1	V304372.D	RXI-5Sil MS 0.25(mm)
RL 480-369868/4		08/01/2017 19:17	1		RXI-5Sil MS 0.25(mm)
MB 480-368504/1-A		08/01/2017 19:43	1	V304374.D	RXI-5Sil MS 0.25(mm)
LCS 480-368504/2-A		08/01/2017 20:09	1	V304375.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		08/01/2017 20:35	10		RXI-5Sil MS 0.25(mm)
480-121501-3 MS		08/01/2017 21:01	10	V304377.D	RXI-5Sil MS 0.25(mm)
480-121501-3 MSD		08/01/2017 21:27	10	V304378.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		08/01/2017 21:54	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/01/2017 22:20	10		RXI-5Sil MS 0.25(mm)
480-121501-1		08/01/2017 22:47	1	V304381.D	RXI-5Sil MS 0.25(mm)
480-121501-2		08/01/2017 23:13	5	V304382.D	RXI-5Sil MS 0.25(mm)
480-121501-3		08/01/2017 23:40	10	V304383.D	RXI-5Sil MS 0.25(mm)
480-121501-4		08/02/2017 00:06	1	V304384.D	RXI-5Sil MS 0.25(mm)
480-121501-5		08/02/2017 00:32	1	V304385.D	RXI-5Sil MS 0.25(mm)
480-121501-6		08/02/2017 00:58	1	V304386.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2017 01:24	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2017 01:50	25		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2017 02:16	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2017 02:42	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2017 03:08	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2017 03:34	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2017 04:00	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2017 04:26	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2017 04:52	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/02/2017 05:18	5		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368504 Batch Start Date: 07/25/17 07:50 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8270/625LCS 00102	O_8270surr 00062	AnalysisComment
MB 480-368504/1		3550C, 8270D		CALC NOT SET TO RUN	30.38 g	1 mL		1 mL	
LCS 480-368504/2		3550C, 8270D		CALC NOT SET TO RUN	30.58 g	1 mL	1 mL	1 mL	
480-121501-A-3 MS	TP-11	3550C, 8270D	T	CALC NOT SET TO RUN	30.18 g	1 mL	1 mL	1 mL	
480-121501-A-3 MSD	TP-11	3550C, 8270D	T	CALC NOT SET TO RUN	30.75 g	1 mL	1 mL	1 mL	
480-121501-A-1	TP-13	3550C, 8270D	T	CALC NOT SET TO RUN	30.65 g	1 mL		1 mL	Sand/Soil
480-121501-A-2	TP-12	3550C, 8270D	T	CALC NOT SET TO RUN	30.36 g	1 mL		1 mL	Mud
480-121501-A-3	TP-11	3550C, 8270D	T	CALC NOT SET TO RUN	30.04 g	1 mL		1 mL	
480-121501-A-4	TP-16	3550C, 8270D	T	CALC NOT SET TO RUN	30.44 g	1 mL		1 mL	Sand/Soil
480-121501-A-5	TP-17	3550C, 8270D	T	CALC NOT SET TO RUN	30.14 g	1 mL		1 mL	Sand/Soil
480-121501-A-6	DUP	3550C, 8270D	T	CALC NOT SET TO RUN	30.34 g	1 mL		1 mL	Sand/Soil

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368504 Batch Start Date: 07/25/17 07:50 Batch Analyst: Kelly, Breannon E

Batch Method: 3550C Batch End Date:

Batch Notes	
Balance ID	Balance 5
Batch Comment	Filter paper lot # 9802837
Blank Soil Lot Number	3934403
Analyst ID - Concentration	BK/NC
Na2SO4 ID	3934401
Nominal Amount Used	30 g
Prep Solvent ID	4150992/4149295
Prep Solvent Name	MeCl2/Acetone
Prep Solvent Volume Used	300 mL
Person's name who did the prep	BK
Analyst ID - Reagent Drop Witness	BK
Analyst ID - Reagent Drop	BK
Perform Calculation (0=No, 1=Yes)	0
Vial ID	1634811094

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM II
PESTICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
TP-13	480-121501-1	76	71	89	101
TP-12	480-121501-2	88	72	99	163 X
TP-11	480-121501-3	108	75	93	123 X
TP-16	480-121501-4	76	71	89	107
TP-17	480-121501-5	79	85	91	113
DUP	480-121501-6	75	83	90	108
	MB 480-368494/1-A	77	60	95	104
	LCS 480-368494/2-A	74	63	90	98
TP-11 MS	480-121501-3 MS	94	73	84	105
TP-11 MSD	480-121501-3 MSD	95	73	80	101

	QC LIMITS
TCX = Tetrachloro-m-xylene	30-124
DCBP = DCB Decachlorobiphenyl	45-120

Column to be used to flag recovery values

FORM II 8081B

FORM III
PESTICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 25_17-214.D

Lab ID: LCS 480-368494/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
4,4'-DDD	16.4	12.7	78	56-120	
4,4'-DDE	16.4	12.0	73	44-120	
4,4'-DDT	16.4	13.8	84	38-120	
Aldrin	16.4	11.0	67	38-120	
alpha-BHC	16.4	10.3	63	39-120	
alpha-Chlordane	16.4	10.0	61	47-120	
beta-BHC	16.4	11.2	68	40-120	
delta-BHC	16.4	11.6	70	45-120	
Dieldrin	16.4	13.2	81	58-120	
Endosulfan I	16.4	9.48	58	49-120	
Endosulfan II	16.4	10.5	64	55-120	
Endosulfan sulfate	16.4	17.2	105	49-124	
Endrin	16.4	13.2	81	58-120	
Endrin aldehyde	16.4	11.6	71	37-121	
Endrin ketone	16.4	13.9	85	46-123	
gamma-BHC (Lindane)	16.4	11.0	67	50-120	
gamma-Chlordane	16.4	11.4	69	48-120	
Heptachlor	16.4	12.7	77	50-120	
Heptachlor epoxide	16.4	12.5	76	50-120	
Methoxychlor	16.4	14.3	87	58-133	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 25_17-215.D

Lab ID: 480-121501-3 MS Client ID: TP-11 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
4,4'-DDD	20.4	ND	30.5	150	37-126	F1
4,4'-DDE	20.4	13	21.7	42	34-120	
4,4'-DDT	20.4	ND	20.2	99	43-123	
Aldrin	20.4	ND	16.9	83	37-125	
alpha-BHC	20.4	ND	13.1	64	39-120	
alpha-Chlordane	20.4	ND	15.7	77	35-120	
beta-BHC	20.4	3.0 J	14.4	56	36-120	
delta-BHC	20.4	7.3 J	18.9	57	34-120	
Dieldrin	20.4	20	26.2	30	45-120	F1
Endosulfan I	20.4	ND	11.7	57	39-120	
Endosulfan II	20.4	2.2 J	11.3	45	34-126	
Endosulfan sulfate	20.4	ND	17.9	88	27-130	
Endrin	20.4	3.8 J	15.0	55	47-121	
Endrin aldehyde	20.4	ND	13.3	65	33-123	
Endrin ketone	20.4	ND	18.4	90	43-126	
gamma-BHC (Lindane)	20.4	ND	14.9	73	50-120	
gamma-Chlordane	20.4	ND	12.9	63	31-120	
Heptachlor	20.4	ND	15.0	74	42-120	
Heptachlor epoxide	20.4	2.7 J	16.3	67	40-120	
Methoxychlor	20.4	9.2 J	21.1	58	44-150	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 25_17-216.D

Lab ID: 480-121501-3 MSD Client ID: TP-11 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4,4'-DDD	20.4	17.6	87	53	21	37-126	F2
4,4'-DDE	20.4	21.7	42	0	18	34-120	
4,4'-DDT	20.4	20.9	102	3	25	43-123	
Aldrin	20.4	9.19 J	45	59	12	37-125	F2
alpha-BHC	20.4	12.5	62	4	15	39-120	
alpha-Chlordane	20.4	16.0	79	2	23	35-120	
beta-BHC	20.4	13.4	51	7	19	36-120	
delta-BHC	20.4	18.5	55	2	14	34-120	
Dieldrin	20.4	27.0	34	3	12	45-120	F1
Endosulfan I	20.4	11.8	58	1	18	39-120	
Endosulfan II	20.4	11.1	44	2	26	34-126	
Endosulfan sulfate	20.4	17.0	83	5	35	27-130	
Endrin	20.4	14.9	54	1	20	47-121	
Endrin aldehyde	20.4	12.5	61	6	47	33-123	
Endrin ketone	20.4	17.6	86	4	37	43-126	
gamma-BHC (Lindane)	20.4	14.8	72	1	12	50-120	
gamma-Chlordane	20.4	12.4	61	4	15	31-120	
Heptachlor	20.4	14.5	71	3	22	42-120	
Heptachlor epoxide	20.4	15.2	61	7	15	40-120	
Methoxychlor	20.4	22.1	63	5	24	44-150	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM IV
PESTICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: MB 480-368494/1-A

Matrix: Solid Date Extracted: 07/25/2017 07:30

Lab File ID:(1) 25_17-213.D Lab File ID:(2) 25_17-213.D

Date Analyzed:(1) 07/26/2017 13:16 Date Analyzed:(2) 07/26/2017 13:16

Instrument ID:(1) HP6890-25 Instrument ID:(2) HP6890-25

GC Column:(1) RTX-CLPI ID: 0.53(mm) GC Column:(2) RTX-CLPII ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-368494/2-A	07/26/2017 13:36	07/26/2017 13:36
TP-11 MS	480-121501-3 MS	07/26/2017 13:56	07/26/2017 13:56
TP-11 MSD	480-121501-3 MSD	07/26/2017 14:15	07/26/2017 14:15
TP-11	480-121501-3	07/26/2017 15:14	07/26/2017 15:14
TP-13	480-121501-1	07/26/2017 15:34	07/26/2017 15:34
TP-12	480-121501-2	07/26/2017 15:53	07/26/2017 15:53
TP-16	480-121501-4	07/26/2017 16:13	07/26/2017 16:13
TP-17	480-121501-5	07/26/2017 16:32	07/26/2017 16:32
DUP	480-121501-6	07/26/2017 16:52	07/26/2017 16:52

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: STD3 480-367911/38 Date Analyzed: 07/20/2017 12:03

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm)

Lab File ID (Standard): 25_17-163.D Heated Purge: (Y/N) N

Calibration ID: 30919

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		14306926	1.99				
UPPER LIMIT		28613852	2.49				
LOWER LIMIT		7153463	1.49				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368774/5		14110937	2.00				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: STD3 480-367911/38 Date Analyzed: 07/20/2017 12:03

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm)

Lab File ID (Standard): 25_17-163.D Heated Purge: (Y/N) N

Calibration ID: 30920

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		10246784	2.19				
UPPER LIMIT		20493568	2.69				
LOWER LIMIT		5123392	1.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368774/5		10056340	2.20				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: CCVIS 480-368774/5 Date Analyzed: 07/26/2017 12:17

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm)

Lab File ID (Standard): 25_17-210.D Heated Purge: (Y/N) N

Calibration ID: 30925

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		14110937	2.00				
UPPER LIMIT		28221874	2.50				
LOWER LIMIT		7055469	1.50				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368774/7		13086199	1.99				
MB 480-368494/1-A		11440789	1.99				
LCS 480-368494/2-A		11961078	1.99				
480-121501-3 MS	TP-11 MS	12037051	1.99				
480-121501-3 MSD	TP-11 MSD	11906879	2.00				
480-121501-3	TP-11	12039951	1.99				
480-121501-1	TP-13	12054606	1.99				
480-121501-2	TP-12	11658228	1.99				
480-121501-4	TP-16	11535000	1.99				
480-121501-5	TP-17	11391886	1.99				
480-121501-6	DUP	12084042	1.99				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: CCVIS 480-368774/5 Date Analyzed: 07/26/2017 12:17

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm)

Lab File ID (Standard): 25_17-210.D Heated Purge: (Y/N) N

Calibration ID: 30926

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		10056340	2.20				
UPPER LIMIT		20112680	2.70				
LOWER LIMIT		5028170	1.70				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368774/7		9339986	2.19				
MB 480-368494/1-A		8549494	2.19				
LCS 480-368494/2-A		9072741	2.19				
480-121501-3 MS	TP-11 MS	8809441	2.19				
480-121501-3 MSD	TP-11 MSD	8753753	2.19				
480-121501-3	TP-11	8892157	2.19				
480-121501-1	TP-13	8831085	2.19				
480-121501-2	TP-12	8687812	2.19				
480-121501-4	TP-16	8514436	2.19				
480-121501-5	TP-17	8012936	2.19				
480-121501-6	DUP	8441183	2.20				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-13 Lab Sample ID: 480-121501-1

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/26/2017 15:34 Date Analyzed (2): 07/26/2017 15:34

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
delta-BHC	1		3.40	3.40	3.45	0.51		4.9
	2		4.20	4.16	4.21	0.53		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 Lab Sample ID: 480-121501-2

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/26/2017 15:53 Date Analyzed (2): 07/26/2017 15:53

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.93	2.92	2.97	0.79		27.5
	2		3.46	3.43	3.48	0.60		
gamma-BHC (Lindane)	1		3.20	3.18	3.23	1.5		49.6
	2		3.78	3.78	3.83	0.89		
delta-BHC	1		3.43	3.40	3.45	6.0		166.2
	2		4.20	4.16	4.21	0.56		
Heptachlor	1		3.60	3.59	3.64	1.3		91.6
	2		4.26	4.24	4.29	3.6		
Aldrin	1		3.91	3.86	3.91	3.7		77.9
	2		4.64	4.59	4.64	1.6		
gamma-Chlordane	1		4.60	4.58	4.63	3.5		123.0
	2		5.41	5.39	5.44	15		
alpha-Chlordane	1		4.73	4.72	4.77	6.3		27.2
	2		5.57	5.55	5.60	4.8		
4,4'-DDE	1		4.81	4.80	4.85	3.8		126.6
	2		5.73	5.71	5.76	0.86		
Dieldrin	1		5.12	5.10	5.15	5.2		41.7
	2		5.91	5.90	5.95	3.4		
Endrin	1		5.34	5.34	5.39	0.79		85.7
	2		6.22	6.22	6.27	2.0		
4,4'-DDD	1		5.43	5.42	5.47	6.1		14.4
	2		6.33	6.31	6.36	7.0		
Methoxychlor	1		6.24	6.21	6.26	1.8		76.8
	2		7.36	7.33	7.38	4.1		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 Lab Sample ID: 480-121501-3

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/26/2017 15:14 Date Analyzed (2): 07/26/2017 15:14

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
beta-BHC	1		3.29	3.25	3.30	3.0		5.9
	2		3.89	3.85	3.90	2.9		
delta-BHC	1		3.43	3.40	3.45	7.3		103.3
	2		4.21	4.16	4.21	2.3		
Heptachlor epoxide	1		4.48	4.46	4.51	2.7		149.0
	2		5.20	5.20	5.25	18		
4,4'-DDE	1		4.81	4.80	4.85	13		9.4
	2		5.76	5.71	5.76	12		
Dieldrin	1		5.12	5.10	5.15	20		93.5
	2		5.91	5.90	5.95	7.3		
Endrin	1		5.34	5.34	5.39	3.8		62.7
	2		6.22	6.22	6.27	7.3		
Endosulfan II	1		5.58	5.57	5.62	2.2		175.1
	2		6.46	6.44	6.49	33		
Methoxychlor	1		6.25	6.21	6.26	9.2		65.3
	2		7.37	7.33	7.38	4.7		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS Lab Sample ID: 480-121501-3 MS

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/26/2017 13:56 Date Analyzed (2): 07/26/2017 13:56

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.94	2.92	2.97	13.1		3.6
	2		3.45	3.43	3.48	13.6		
gamma-BHC (Lindane)	1		3.20	3.18	3.23	14.9		0.9
	2		3.79	3.78	3.83	14.7		
beta-BHC	1		3.26	3.25	3.30	14.4		4.0
	2		3.87	3.85	3.90	15.0		
delta-BHC	1		3.42	3.40	3.45	18.9		23.6
	2		4.18	4.16	4.21	14.9		
Heptachlor	1		3.60	3.59	3.64	15.0		10.3
	2		4.26	4.24	4.29	16.6		
Aldrin	1		3.88	3.86	3.91	16.9		18.0
	2		4.61	4.59	4.64	14.1		
Heptachlor epoxide	1		4.48	4.46	4.51	16.3		49.8
	2		5.21	5.20	5.25	27.1		
gamma-Chlordane	1		4.60	4.58	4.63	12.9		71.8
	2		5.41	5.39	5.44	27.3		
alpha-Chlordane	1		4.74	4.72	4.77	15.7		5.2
	2		5.57	5.55	5.60	14.9		
4,4'-DDE	1		4.82	4.80	4.85	21.7		24.2
	2		5.73	5.71	5.76	17.0		
Endosulfan I	1		4.87	4.86	4.91	11.7		1.4
	2		5.63	5.61	5.66	11.5		
Dieldrin	1		5.12	5.10	5.15	26.2		22.2
	2		5.92	5.90	5.95	21.0		
Endrin	1		5.36	5.34	5.39	15.0		23.7
	2		6.24	6.22	6.27	19.0		
4,4'-DDD	1		5.43	5.42	5.47	30.5		3.5
	2		6.33	6.31	6.36	29.5		
Endosulfan II	1		5.59	5.57	5.62	11.3		99.9
	2		6.45	6.44	6.49	33.7		
4,4'-DDT	1		5.72	5.70	5.75	20.2		92.0
	2		6.66	6.64	6.69	54.6		
Endrin aldehyde	1		6.02	6.00	6.05	13.3		50.0
	2		6.80	6.78	6.83	22.1		
Methoxychlor	1		6.23	6.21	6.26	21.1		36.3
	2		7.34	7.33	7.38	30.4		
Endosulfan sulfate	1		6.47	6.45	6.50	17.9		7.7
	2		7.09	7.07	7.12	16.6		
Endrin ketone	1		6.75	6.73	6.78	18.4		0.9
	2		7.63	7.62	7.67	18.2		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD Lab Sample ID: 480-121501-3 MSD

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/26/2017 14:15 Date Analyzed (2): 07/26/2017 14:15

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.94	2.92	2.97	12.5		3.0
	2		3.45	3.43	3.48	12.9		
gamma-BHC (Lindane)	1		3.20	3.18	3.23	14.8		3.5
	2		3.79	3.78	3.83	14.3		
beta-BHC	1		3.27	3.25	3.30	13.4		6.2
	2		3.87	3.85	3.90	14.3		
delta-BHC	1		3.42	3.40	3.45	18.5		25.8
	2		4.18	4.16	4.21	14.3		
Heptachlor	1		3.60	3.59	3.64	14.5		7.8
	2		4.26	4.24	4.29	15.7		
Aldrin	1		3.88	3.86	3.91	9.19		36.1
	2		4.61	4.59	4.64	13.2		
Heptachlor epoxide	1		4.48	4.46	4.51	15.2		55.0
	2		5.21	5.20	5.25	26.7		
gamma-Chlordane	1		4.60	4.58	4.63	12.4		107.1
	2		5.41	5.39	5.44	40.8		
alpha-Chlordane	1		4.74	4.72	4.77	16.0		10.7
	2		5.57	5.55	5.60	14.4		
4,4'-DDE	1		4.82	4.80	4.85	21.7		35.4
	2		5.73	5.71	5.76	15.2		
Endosulfan I	1		4.87	4.86	4.91	11.8		8.7
	2		5.63	5.61	5.66	10.8		
Dieldrin	1		5.12	5.10	5.15	27.0		35.0
	2		5.92	5.90	5.95	19.0		
Endrin	1		5.36	5.34	5.39	14.9		18.1
	2		6.24	6.22	6.27	17.9		
4,4'-DDD	1		5.43	5.42	5.47	17.6		0.1
	2		6.33	6.31	6.36	17.6		
Endosulfan II	1		5.59	5.57	5.62	11.1		105.5
	2		6.45	6.44	6.49	35.9		
4,4'-DDT	1		5.72	5.70	5.75	20.9		95.3
	2		6.66	6.64	6.69	58.8		
Endrin aldehyde	1		6.02	6.00	6.05	12.5		52.6
	2		6.80	6.78	6.83	21.5		
Methoxychlor	1		6.24	6.21	6.26	22.1		26.1
	2		7.34	7.33	7.38	28.7		
Endosulfan sulfate	1		6.47	6.45	6.50	17.0		19.0
	2		7.08	7.07	7.12	14.1		
Endrin ketone	1		6.75	6.73	6.78	17.6		2.9
	2		7.63	7.62	7.67	17.1		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-17 Lab Sample ID: 480-121501-5

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/26/2017 16:32 Date Analyzed (2): 07/26/2017 16:32

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
delta-BHC	1		3.42	3.40	3.45	0.47		8.3
	2		4.19	4.16	4.21	0.51		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-121501-6

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/26/2017 16:52 Date Analyzed (2): 07/26/2017 16:52

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
delta-BHC	1		3.42	3.40	3.45	0.41		10.7
	2		4.19	4.16	4.21	0.46		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-368494/1-A

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/26/2017 13:16 Date Analyzed (2): 07/26/2017 13:16

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
delta-BHC	1		3.40	3.40	3.45	0.460		0.6
	2		4.20	4.16	4.21	0.457		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-368494/2-A

Instrument ID (1): HP6890-25 Instrument ID (2): HP6890-25

Date Analyzed (1): 07/26/2017 13:36 Date Analyzed (2): 07/26/2017 13:36

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		2.94	2.92	2.97	10.3		1.6
	2		3.45	3.43	3.48	10.5		
gamma-BHC (Lindane)	1		3.20	3.18	3.23	11.0		2.9
	2		3.80	3.78	3.83	11.4		
beta-BHC	1		3.27	3.25	3.30	11.2		5.6
	2		3.87	3.85	3.90	10.6		
delta-BHC	1		3.42	3.40	3.45	11.6		3.6
	2		4.18	4.16	4.21	11.1		
Heptachlor	1		3.61	3.59	3.64	12.7		1.6
	2		4.26	4.24	4.29	12.5		
Aldrin	1		3.88	3.86	3.91	11.0		4.2
	2		4.61	4.59	4.64	11.4		
Heptachlor epoxide	1		4.48	4.46	4.51	12.5		0.6
	2		5.22	5.20	5.25	12.4		
gamma-Chlordane	1		4.60	4.58	4.63	11.4		2.2
	2		5.41	5.39	5.44	11.6		
alpha-Chlordane	1		4.74	4.72	4.77	10.0		16.2
	2		5.57	5.55	5.60	11.8		
4,4'-DDE	1		4.82	4.80	4.85	12.0		4.5
	2		5.73	5.71	5.76	12.6		
Endosulfan I	1		4.88	4.86	4.91	9.48		0.6
	2		5.63	5.61	5.66	9.54		
Dieldrin	1		5.12	5.10	5.15	13.2		0.3
	2		5.92	5.90	5.95	13.3		
Endrin	1		5.36	5.34	5.39	13.2		2.2
	2		6.24	6.22	6.27	12.9		
4,4'-DDD	1		5.43	5.42	5.47	12.7		8.0
	2		6.33	6.31	6.36	13.8		
Endosulfan II	1		5.59	5.57	5.62	10.5		1.2
	2		6.46	6.44	6.49	10.6		
4,4'-DDT	1		5.72	5.70	5.75	13.8		1.3
	2		6.66	6.64	6.69	14.0		
Endrin aldehyde	1		6.02	6.00	6.05	11.6		16.6
	2		6.80	6.78	6.83	13.7		
Methoxychlor	1		6.23	6.21	6.26	14.3		44.9
	2		7.34	7.33	7.38	22.6		
Endosulfan sulfate	1		6.47	6.45	6.50	17.2		30.5
	2		7.09	7.07	7.12	12.7		
Endrin ketone	1		6.75	6.73	6.78	13.9		0.7
	2		7.64	7.62	7.67	13.9		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-13 | Lab Sample ID: 480-121501-1

Matrix: Solid | Lab File ID: 25_17-220.D

Analysis Method: 8081B | Date Collected: 07/21/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.16(g) | Date Analyzed: 07/26/2017 15:34

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.0	0.39
72-55-9	4,4'-DDE	ND		2.0	0.42
50-29-3	4,4'-DDT	ND		2.0	0.47
309-00-2	Aldrin	ND		2.0	0.49
319-84-6	alpha-BHC	ND		2.0	0.36
5103-71-9	alpha-Chlordane	ND		2.0	1.0
319-85-7	beta-BHC	ND		2.0	0.36
319-86-8	delta-BHC	0.51	J B	2.0	0.37
60-57-1	Dieldrin	ND		2.0	0.48
959-98-8	Endosulfan I	ND		2.0	0.38
33213-65-9	Endosulfan II	ND		2.0	0.36
1031-07-8	Endosulfan sulfate	ND		2.0	0.37
72-20-8	Endrin	ND		2.0	0.40
7421-93-4	Endrin aldehyde	ND		2.0	0.51
53494-70-5	Endrin ketone	ND		2.0	0.49
58-89-9	gamma-BHC (Lindane)	ND		2.0	0.37
5103-74-2	gamma-Chlordane	ND		2.0	0.64
76-44-8	Heptachlor	ND		2.0	0.43
1024-57-3	Heptachlor epoxide	ND		2.0	0.52
72-43-5	Methoxychlor	ND		2.0	0.41
8001-35-2	Toxaphene	ND		20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	89		45-120
877-09-8	Tetrachloro-m-xylene	76		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-220.D
Lims ID: 480-121501-A-1-A
Client ID: TP-13
Sample Type: Client
Inject. Date: 26-Jul-2017 15:34:05 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:52:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.993	1.997	-0.004	12054606	0.5000	
2	2.193	2.197	-0.004	8831085	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.523	-0.003	334724	0.0152	
2	2.900	2.907	-0.007	313336	0.0142	
					RPD = 6.51	
9 delta-BHC						
1	3.403	3.423	-0.020	13669	0.001271	
2	4.203	4.183	0.020	7537	0.001334	
					RPD = 4.89	
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.783	-0.003	437845	0.0177	
2	8.837	8.840	-0.003	286766	0.0202	
					RPD = 13.15	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

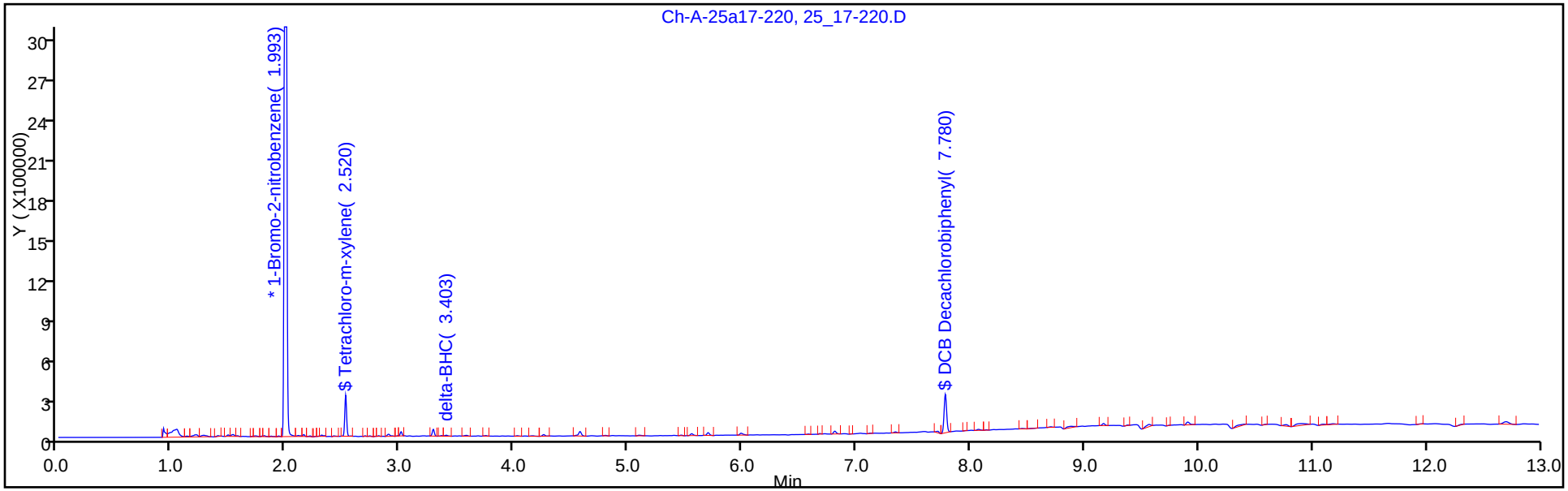
Report Date: 27-Jul-2017 11:17:36 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

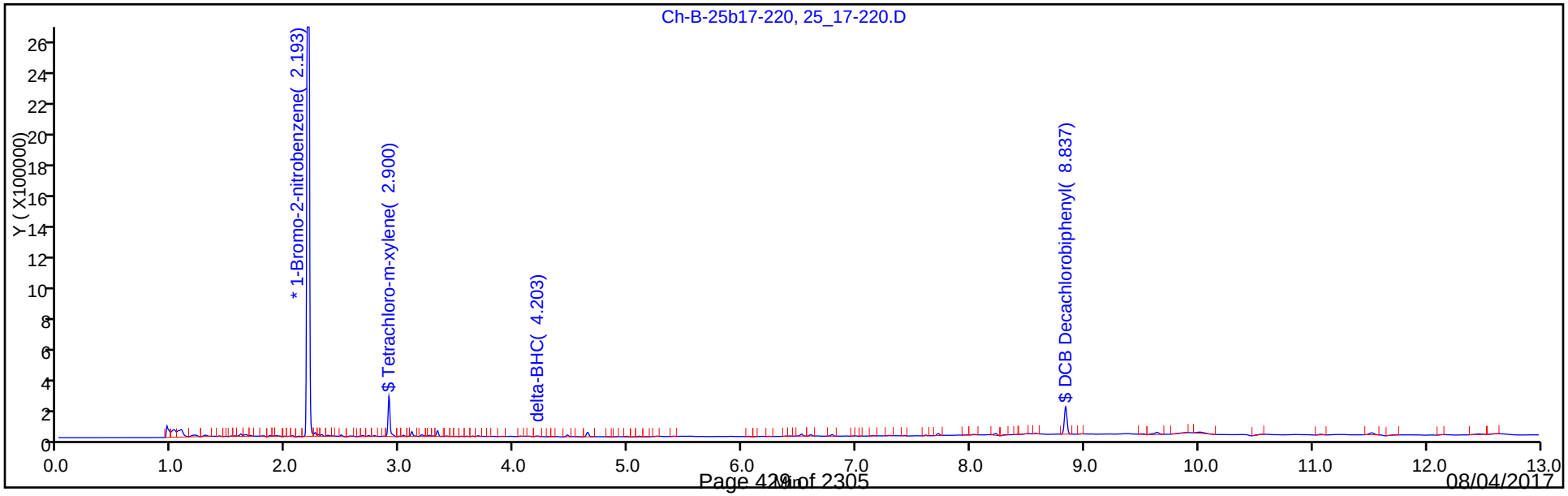
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-220.D

Injection Date:	26-Jul-2017 15:34:05	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-1-A	Lab Sample ID:	480-121501-1	Worklist Smp#:	15
Client ID:	TP-13				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-13 | Lab Sample ID: 480-121501-1

Matrix: Solid | Lab File ID: 25_17-220.D

Analysis Method: 8081B | Date Collected: 07/21/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.16(g) | Date Analyzed: 07/26/2017 15:34

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	101		45-120
877-09-8	Tetrachloro-m-xylene	71		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-220.D
Lims ID: 480-121501-A-1-A
Client ID: TP-13
Sample Type: Client
Inject. Date: 26-Jul-2017 15:34:05 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:52:59

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.993	1.997	-0.004	12054606	0.5000	
2	2.193	2.197	-0.004	8831085	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.523	-0.003	334724	0.0152	
2	2.900	2.907	-0.007	313336	0.0142	
					RPD = 6.51	
9 delta-BHC						
1	3.403	3.423	-0.020	13669	0.001271	
2	4.203	4.183	0.020	7537	0.001334	
					RPD = 4.89	
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.783	-0.003	437845	0.0177	
2	8.837	8.840	-0.003	286766	0.0202	
					RPD = 13.15	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

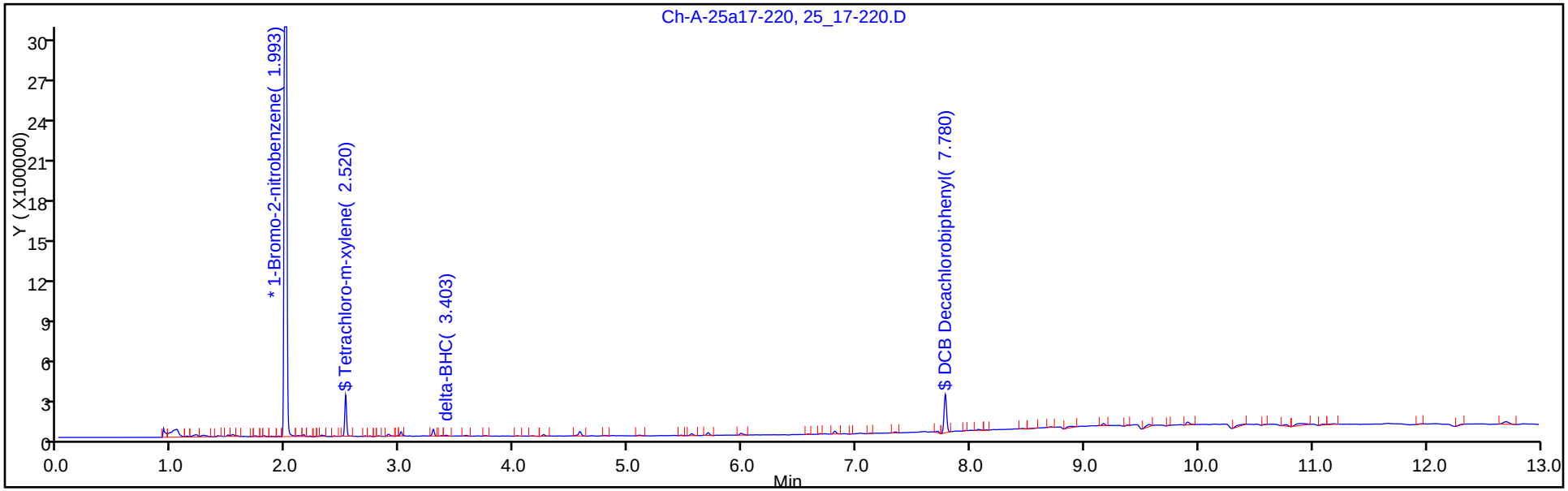
Report Date: 27-Jul-2017 11:17:37 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

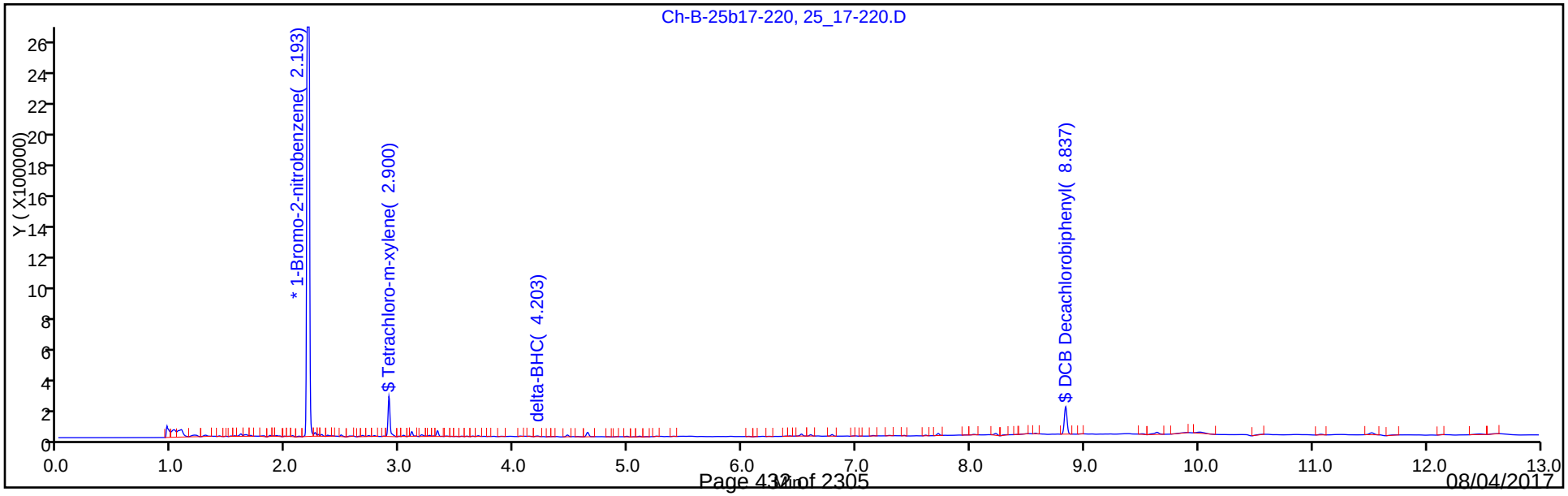
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-220.D

Injection Date:	26-Jul-2017 15:34:05	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-1-A	Lab Sample ID:	480-121501-1	Worklist Smp#:	15
Client ID:	TP-13				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 | Lab Sample ID: 480-121501-2

Matrix: Solid | Lab File ID: 25_17-221.D

Analysis Method: 8081B | Date Collected: 07/21/2017 10:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.11(g) | Date Analyzed: 07/26/2017 15:53

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	6.1		2.2	0.42
72-55-9	4,4'-DDE	3.8		2.2	0.46
50-29-3	4,4'-DDT	ND		2.2	0.51
309-00-2	Aldrin	3.7		2.2	0.54
319-84-6	alpha-BHC	0.79	J	2.2	0.39
5103-71-9	alpha-Chlordane	6.3		2.2	1.1
319-85-7	beta-BHC	ND		2.2	0.39
319-86-8	delta-BHC	6.0	B	2.2	0.41
60-57-1	Dieldrin	5.2		2.2	0.52
959-98-8	Endosulfan I	ND		2.2	0.42
33213-65-9	Endosulfan II	ND		2.2	0.39
1031-07-8	Endosulfan sulfate	ND		2.2	0.41
72-20-8	Endrin	0.79	J	2.2	0.43
7421-93-4	Endrin aldehyde	ND		2.2	0.56
53494-70-5	Endrin ketone	ND		2.2	0.54
58-89-9	gamma-BHC (Lindane)	1.5	J	2.2	0.40
5103-74-2	gamma-Chlordane	3.5		2.2	0.69
76-44-8	Heptachlor	1.3	J	2.2	0.47
1024-57-3	Heptachlor epoxide	ND		2.2	0.56
72-43-5	Methoxychlor	1.8	J	2.2	0.45
8001-35-2	Toxaphene	ND		22	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	99		45-120
877-09-8	Tetrachloro-m-xylene	88		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-221.D
Lims ID: 480-121501-A-2-A
Client ID: TP-12
Sample Type: Client
Inject. Date: 26-Jul-2017 15:53:40 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:53:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.993	1.997	-0.004	11658228	0.5000	
2	2.190	2.197	-0.007	8687812	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.523	-0.003	381229	0.0177	
2	2.900	2.907	-0.007	311264	0.0143	
					RPD = 20.78	
6 alpha-BHC						
1	2.927	2.943	-0.016	60353	0.001817	
2	3.463	3.453	0.010	22129	0.001377	
					RPD = 27.55	
7 gamma-BHC (Lindane)						
1	3.197	3.200	-0.003	123277	0.003387	
2	3.780	3.800	-0.020	38241	0.002041	
					RPD = 49.61	
9 delta-BHC						
1	3.430	3.423	0.007	564765	0.0138	
2	4.200	4.183	0.017	5434	0.001272	
					RPD = 166.15	
11 Heptachlor						
1	3.597	3.610	-0.013	122910	0.003034	
2	4.260	4.267	-0.007	222658	0.008164	
					RPD = 91.62	
12 Aldrin						
1	3.910	3.887	0.023	320637	0.008378	
2	4.640	4.617	0.023	94956	0.003681	
					RPD = 77.91	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
16 gamma-Chlordane						
1	4.600	4.607	-0.007	293778	0.007940	
2	5.413	5.417	-0.004	835180	0.0333	
					RPD = 123.02	
17 alpha-Chlordane						
1	4.733	4.740	-0.007	506910	0.0144	
2	5.567	5.570	-0.003	232663	0.0109	
					RPD = 27.18	
18 4,4'-DDE						
1	4.810	4.823	-0.013	284903	0.008754	
2	5.727	5.733	-0.006	25718	0.001968	
					RPD = 126.57	
21 Dieldrin						
1	5.117	5.123	-0.006	397367	0.0118	
2	5.913	5.923	-0.010	173518	0.007747	
					RPD = 41.71	
23 Endrin						
1	5.343	5.360	-0.017	67583	0.001799	
2	6.223	6.247	-0.024	88858	0.004494	
					RPD = 85.66	
24 4,4'-DDD						
1	5.433	5.440	-0.007	379944	0.0139	
2	6.330	6.337	-0.007	281231	0.0160	
					RPD = 14.43	
30 Methoxychlor						
1	6.243	6.237	0.006	51086	0.004229	
2	7.357	7.350	0.007	66894	0.009501	
					RPD = 76.79	
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.783	-0.003	471164	0.0197	
2	8.837	8.840	-0.003	455147	0.0327	
					RPD = 49.40	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

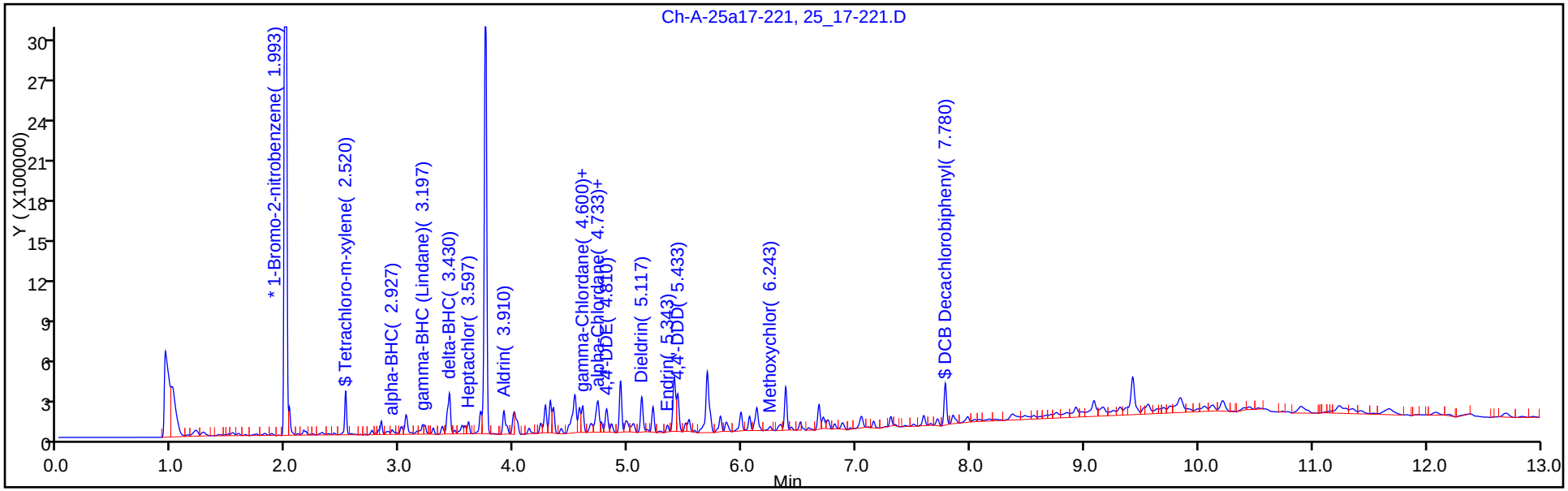
Report Date: 27-Jul-2017 11:17:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

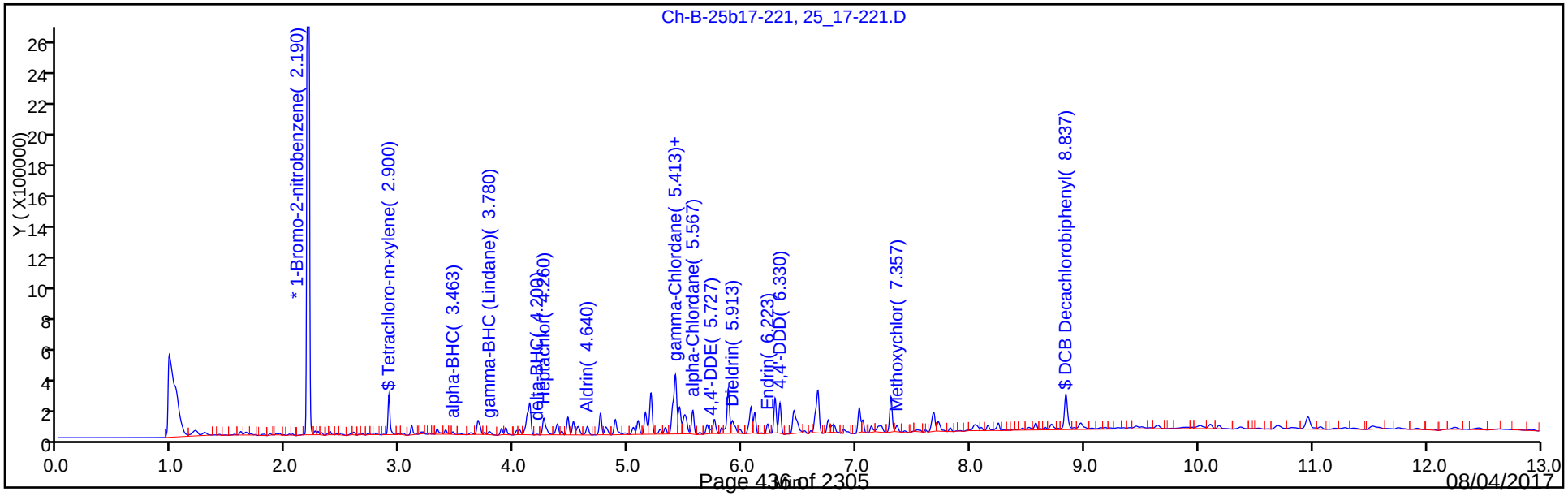
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-221.D

Injection Date:	26-Jul-2017 15:53:40	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-2-A	Lab Sample ID:	480-121501-2	Worklist Smp#:	16
Client ID:	TP-12				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 | Lab Sample ID: 480-121501-2

Matrix: Solid | Lab File ID: 25_17-221.D

Analysis Method: 8081B | Date Collected: 07/21/2017 10:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.11(g) | Date Analyzed: 07/26/2017 15:53

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	163	X	45-120
877-09-8	Tetrachloro-m-xylene	72		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-221.D
Lims ID: 480-121501-A-2-A
Client ID: TP-12
Sample Type: Client
Inject. Date: 26-Jul-2017 15:53:40 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:53:33

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.993	1.997	-0.004	11658228	0.5000	
2	2.190	2.197	-0.007	8687812	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.520	2.523	-0.003	381229	0.0177	
2	2.900	2.907	-0.007	311264	0.0143	
					RPD = 20.78	
6 alpha-BHC						
1	2.927	2.943	-0.016	60353	0.001817	
2	3.463	3.453	0.010	22129	0.001377	
					RPD = 27.55	
7 gamma-BHC (Lindane)						
1	3.197	3.200	-0.003	123277	0.003387	
2	3.780	3.800	-0.020	38241	0.002041	
					RPD = 49.61	
9 delta-BHC						
1	3.430	3.423	0.007	564765	0.0138	
2	4.200	4.183	0.017	5434	0.001272	
					RPD = 166.15	
11 Heptachlor						
1	3.597	3.610	-0.013	122910	0.003034	
2	4.260	4.267	-0.007	222658	0.008164	
					RPD = 91.62	
12 Aldrin						
1	3.910	3.887	0.023	320637	0.008378	
2	4.640	4.617	0.023	94956	0.003681	
					RPD = 77.91	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
16 gamma-Chlordane						
1	4.600	4.607	-0.007	293778	0.007940	
2	5.413	5.417	-0.004	835180	0.0333	
					RPD = 123.02	
17 alpha-Chlordane						
1	4.733	4.740	-0.007	506910	0.0144	
2	5.567	5.570	-0.003	232663	0.0109	
					RPD = 27.18	
18 4,4'-DDE						
1	4.810	4.823	-0.013	284903	0.008754	
2	5.727	5.733	-0.006	25718	0.001968	
					RPD = 126.57	
21 Dieldrin						
1	5.117	5.123	-0.006	397367	0.0118	
2	5.913	5.923	-0.010	173518	0.007747	
					RPD = 41.71	
23 Endrin						
1	5.343	5.360	-0.017	67583	0.001799	
2	6.223	6.247	-0.024	88858	0.004494	
					RPD = 85.66	
24 4,4'-DDD						
1	5.433	5.440	-0.007	379944	0.0139	
2	6.330	6.337	-0.007	281231	0.0160	
					RPD = 14.43	
30 Methoxychlor						
1	6.243	6.237	0.006	51086	0.004229	
2	7.357	7.350	0.007	66894	0.009501	
					RPD = 76.79	
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.783	-0.003	471164	0.0197	
2	8.837	8.840	-0.003	455147	0.0327	
					RPD = 49.40	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

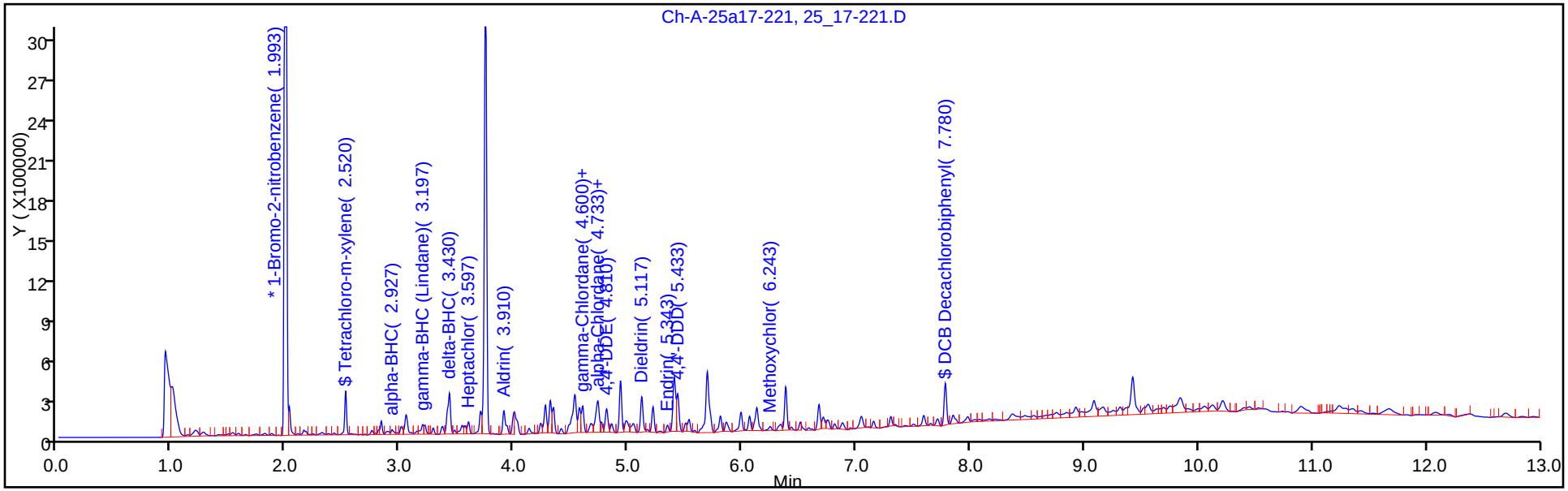
Report Date: 27-Jul-2017 11:17:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

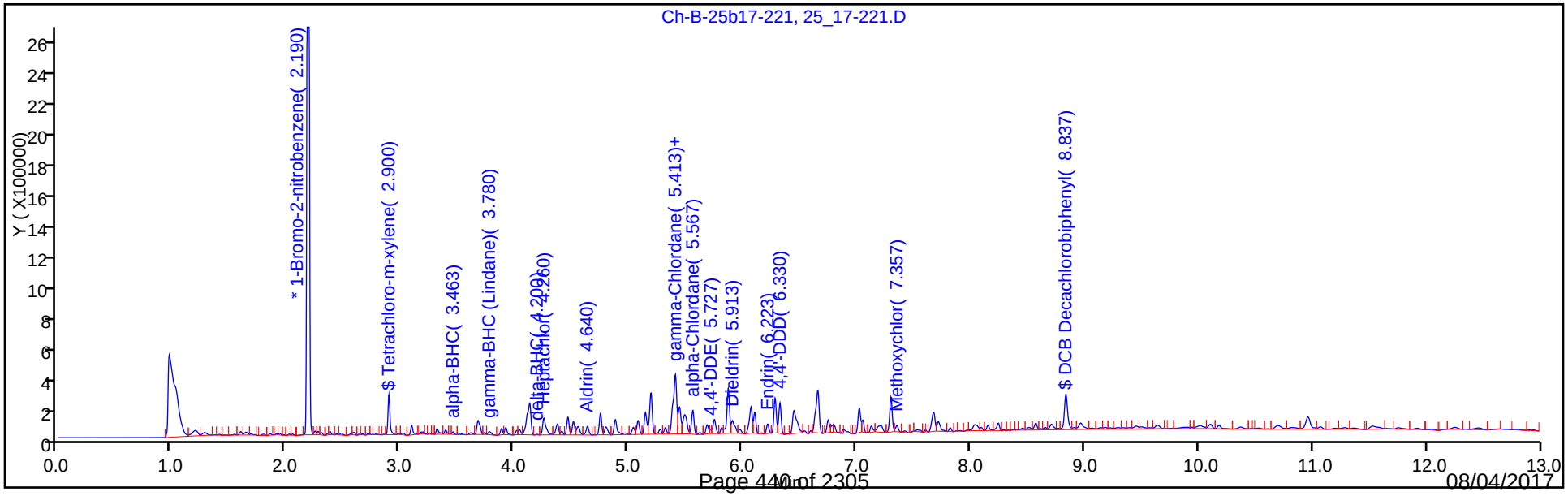
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-221.D

Injection Date:	26-Jul-2017 15:53:40	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-2-A	Lab Sample ID:	480-121501-2	Worklist Smp#:	16
Client ID:	TP-12				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 | Lab Sample ID: 480-121501-3

Matrix: Solid | Lab File ID: 25_17-219.D

Analysis Method: 8081B | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.55(g) | Date Analyzed: 07/26/2017 15:14

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND	F1 F2	10	2.0
72-55-9	4,4'-DDE	13		10	2.1
50-29-3	4,4'-DDT	ND		10	2.4
309-00-2	Aldrin	ND	F2	10	2.5
319-84-6	alpha-BHC	ND		10	1.8
5103-71-9	alpha-Chlordane	ND		10	5.0
319-85-7	beta-BHC	3.0	J	10	1.8
319-86-8	delta-BHC	7.3	J B	10	1.9
60-57-1	Dieldrin	20	F1	10	2.4
959-98-8	Endosulfan I	ND		10	1.9
33213-65-9	Endosulfan II	2.2	J	10	1.8
1031-07-8	Endosulfan sulfate	ND		10	1.9
72-20-8	Endrin	3.8	J	10	2.0
7421-93-4	Endrin aldehyde	ND		10	2.6
53494-70-5	Endrin ketone	ND		10	2.5
58-89-9	gamma-BHC (Lindane)	ND		10	1.9
5103-74-2	gamma-Chlordane	ND		10	3.2
76-44-8	Heptachlor	ND		10	2.2
1024-57-3	Heptachlor epoxide	2.7	J	10	2.6
72-43-5	Methoxychlor	9.2	J	10	2.1
8001-35-2	Toxaphene	ND		100	59

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	93		45-120
877-09-8	Tetrachloro-m-xylene	108		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-219.D
Lims ID: 480-121501-A-3-C
Client ID: TP-11
Sample Type: Client
Inject. Date: 26-Jul-2017 15:14:36 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:52:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.993	1.997	-0.004	12039951	0.5000	
2	2.193	2.197	-0.004	8892157	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.523	2.523	0.000	76728	0.004302	
2	2.903	2.907	-0.004	60190	0.002996	
					RPD = 35.77	
8 beta-BHC						
1	3.290	3.270	0.020	16607	0.001509	
2	3.890	3.873	0.017	10829	0.001423	
					RPD = 5.86	
9 delta-BHC						
1	3.433	3.423	0.010	120728	0.003618	
2	4.207	4.183	0.024	1718	0.001153	
					RPD = 103.31	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
13 Alachlor						
1	4.030	4.013	0.017	27549	0.007276	
2	4.473	4.470	0.003	73375	0.0307	
					RPD = 123.38	
14 Heptachlor epoxide						
1	4.483	4.480	0.003	60528	0.001331	
2	5.200	5.220	-0.020	210999	0.009101	
					RPD = 148.96	
17 alpha-Chlordane						
1	4.717	4.740	-0.023	21900	0.001100	
2	5.567	5.570	-0.003	4906	0.001085	
					RPD = 1.32	
18 4,4'-DDE						
1	4.810	4.823	-0.013	211501	0.006542	
2	5.757	5.733	0.024	124765	0.005952	
					RPD = 9.43	
21 Dieldrin						
1	5.120	5.123	-0.003	345653	0.0100	
2	5.913	5.923	-0.010	75578	0.003626	
					RPD = 93.47	
23 Endrin						
1	5.343	5.360	-0.017	73271	0.001904	
2	6.223	6.247	-0.024	71575	0.003643	
					RPD = 62.72	
27 Endosulfan II						
1	5.583	5.590	-0.007	30750	0.001072	
2	6.457	6.460	-0.003	312184	0.0162	
					RPD = 175.12	
30 Methoxychlor						
1	6.247	6.237	0.010	57196	0.004546	
2	7.367	7.350	0.017	5678	0.002307	
					RPD = 65.35	
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.783	-0.003	95294	0.003722	
2	8.837	8.840	-0.003	71444	0.004910	
					RPD = 27.54	
S 1 BHC, Total						
1					0.005127	
2					0.002576	
					RPD = 66.22	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

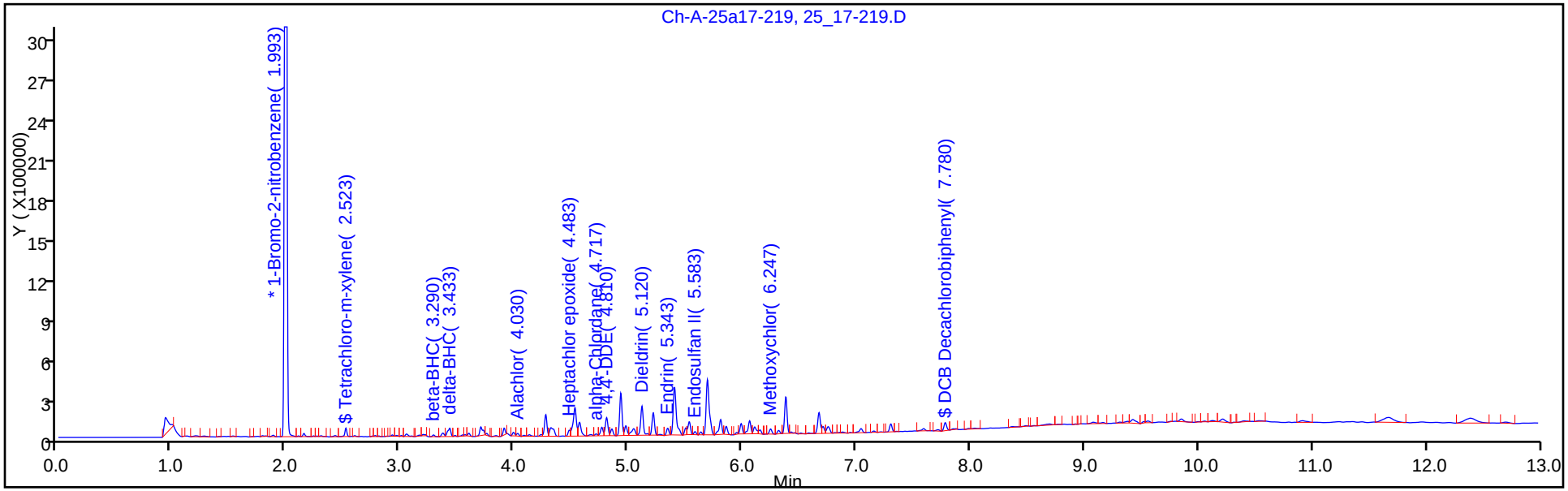
Report Date: 27-Jul-2017 11:17:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

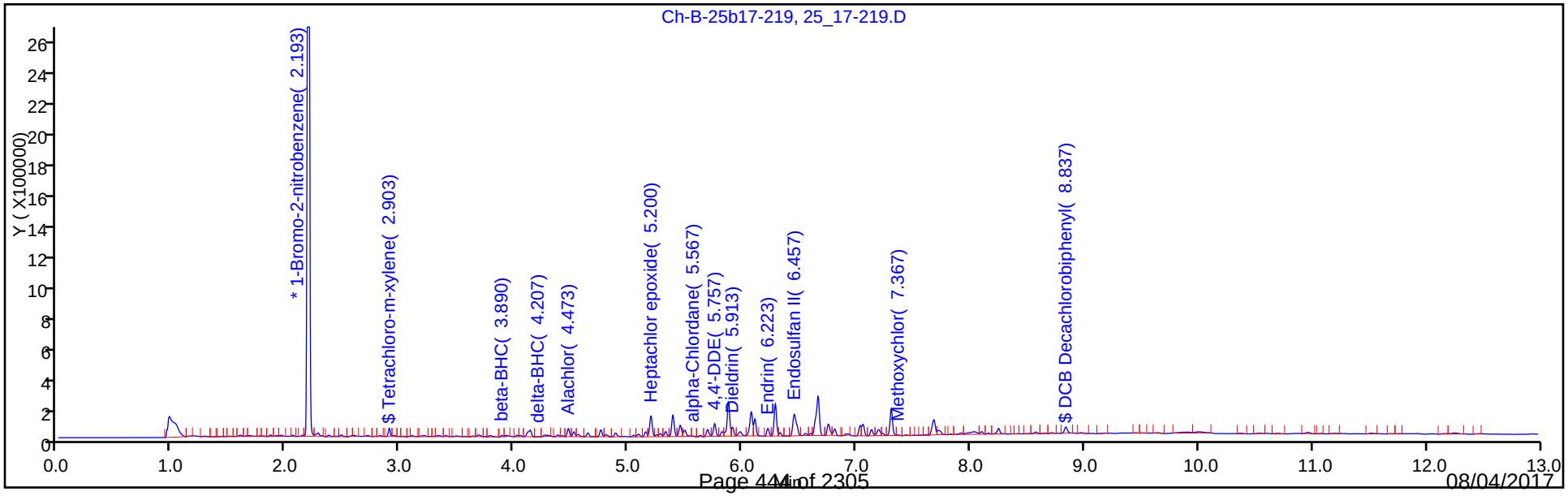
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-219.D

Injection Date:	26-Jul-2017 15:14:36	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-C	Lab Sample ID:	480-121501-3	Worklist Smp#:	14
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 | Lab Sample ID: 480-121501-3

Matrix: Solid | Lab File ID: 25_17-219.D

Analysis Method: 8081B | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.55(g) | Date Analyzed: 07/26/2017 15:14

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	123	X	45-120
877-09-8	Tetrachloro-m-xylene	75		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-219.D
Lims ID: 480-121501-A-3-C
Client ID: TP-11
Sample Type: Client
Inject. Date: 26-Jul-2017 15:14:36 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:52:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.993	1.997	-0.004	12039951	0.5000	
2	2.193	2.197	-0.004	8892157	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.523	2.523	0.000	76728	0.004302	
2	2.903	2.907	-0.004	60190	0.002996	
					RPD = 35.77	
8 beta-BHC						
1	3.290	3.270	0.020	16607	0.001509	
2	3.890	3.873	0.017	10829	0.001423	
					RPD = 5.86	
9 delta-BHC						
1	3.433	3.423	0.010	120728	0.003618	
2	4.207	4.183	0.024	1718	0.001153	
					RPD = 103.31	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
13 Alachlor						
1	4.030	4.013	0.017	27549	0.007276	
2	4.473	4.470	0.003	73375	0.0307	
					RPD = 123.38	
14 Heptachlor epoxide						
1	4.483	4.480	0.003	60528	0.001331	
2	5.200	5.220	-0.020	210999	0.009101	
					RPD = 148.96	
17 alpha-Chlordane						
1	4.717	4.740	-0.023	21900	0.001100	
2	5.567	5.570	-0.003	4906	0.001085	
					RPD = 1.32	
18 4,4'-DDE						
1	4.810	4.823	-0.013	211501	0.006542	
2	5.757	5.733	0.024	124765	0.005952	
					RPD = 9.43	
21 Dieldrin						
1	5.120	5.123	-0.003	345653	0.0100	
2	5.913	5.923	-0.010	75578	0.003626	
					RPD = 93.47	
23 Endrin						
1	5.343	5.360	-0.017	73271	0.001904	
2	6.223	6.247	-0.024	71575	0.003643	
					RPD = 62.72	
27 Endosulfan II						
1	5.583	5.590	-0.007	30750	0.001072	
2	6.457	6.460	-0.003	312184	0.0162	
					RPD = 175.12	
30 Methoxychlor						
1	6.247	6.237	0.010	57196	0.004546	
2	7.367	7.350	0.017	5678	0.002307	
					RPD = 65.35	
$ 34 DCB Decachlorobiphenyl						
1	7.780	7.783	-0.003	95294	0.003722	
2	8.837	8.840	-0.003	71444	0.004910	
					RPD = 27.54	
S 1 BHC, Total						
1					0.005127	
2					0.002576	
					RPD = 66.22	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

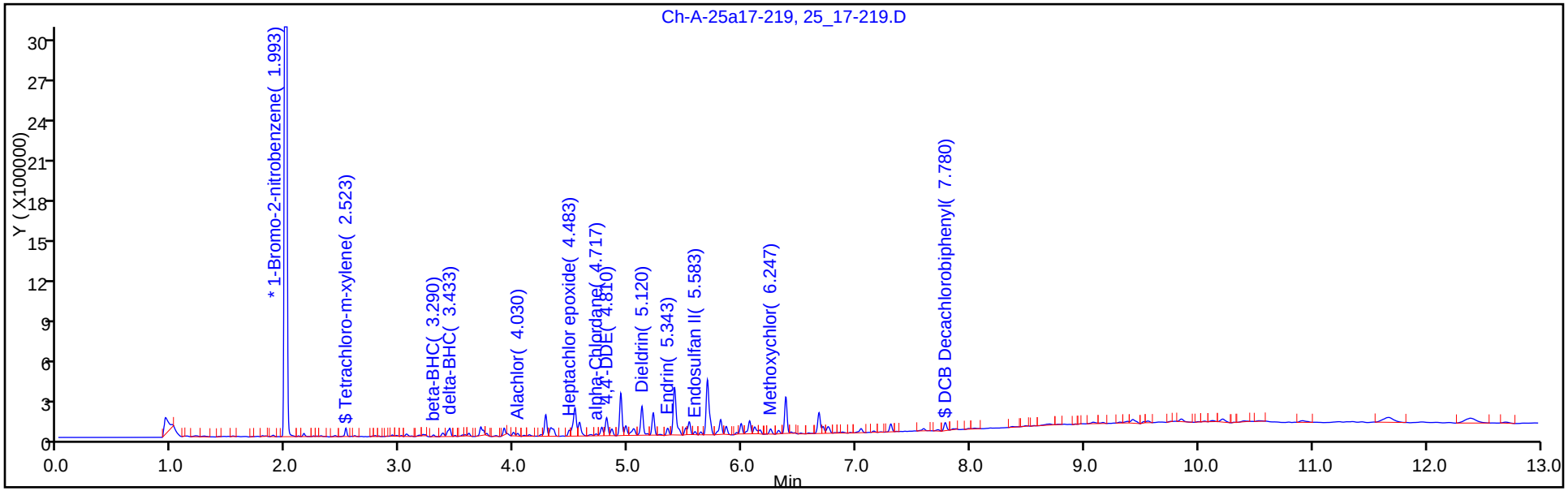
Report Date: 27-Jul-2017 11:17:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

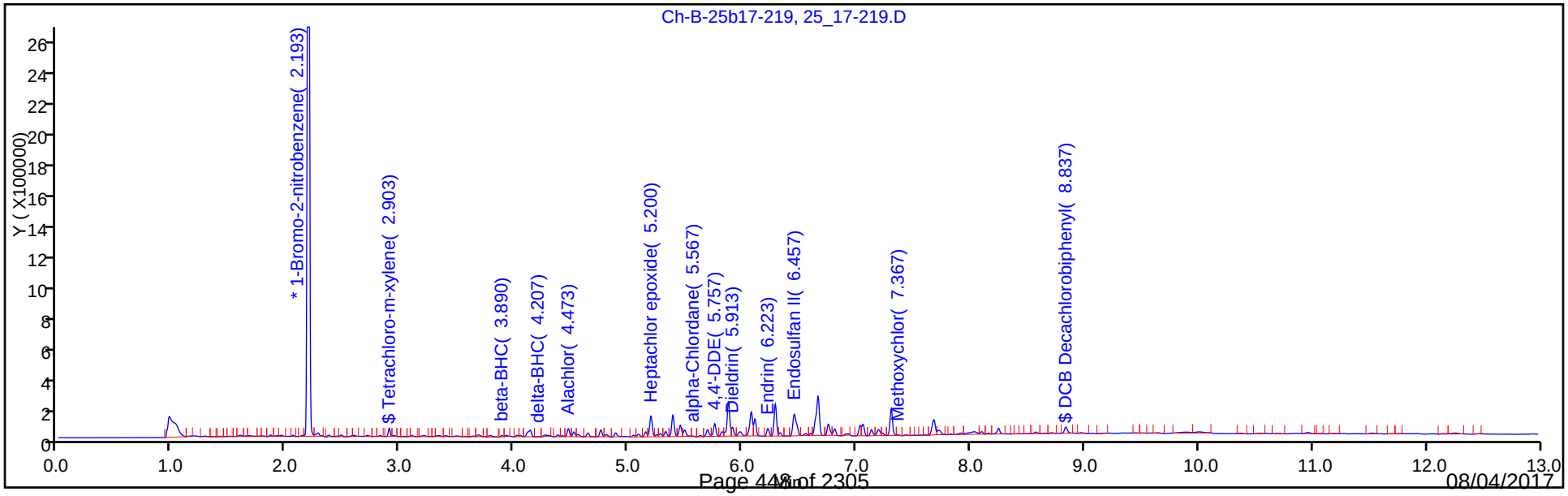
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-219.D

Injection Date:	26-Jul-2017 15:14:36	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-C	Lab Sample ID:	480-121501-3	Worklist Smp#:	14
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-16 | Lab Sample ID: 480-121501-4

Matrix: Solid | Lab File ID: 25_17-222.D

Analysis Method: 8081B | Date Collected: 07/21/2017 14:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.07(g) | Date Analyzed: 07/26/2017 16:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.0	0.40
72-55-9	4,4'-DDE	ND		2.0	0.43
50-29-3	4,4'-DDT	ND		2.0	0.48
309-00-2	Aldrin	ND		2.0	0.50
319-84-6	alpha-BHC	ND		2.0	0.37
5103-71-9	alpha-Chlordane	ND		2.0	1.0
319-85-7	beta-BHC	ND		2.0	0.37
319-86-8	delta-BHC	ND		2.0	0.38
60-57-1	Dieldrin	ND		2.0	0.49
959-98-8	Endosulfan I	ND		2.0	0.39
33213-65-9	Endosulfan II	ND		2.0	0.37
1031-07-8	Endosulfan sulfate	ND		2.0	0.38
72-20-8	Endrin	ND		2.0	0.40
7421-93-4	Endrin aldehyde	ND		2.0	0.52
53494-70-5	Endrin ketone	ND		2.0	0.50
58-89-9	gamma-BHC (Lindane)	ND		2.0	0.37
5103-74-2	gamma-Chlordane	ND		2.0	0.65
76-44-8	Heptachlor	ND		2.0	0.44
1024-57-3	Heptachlor epoxide	ND		2.0	0.53
72-43-5	Methoxychlor	ND		2.0	0.42
8001-35-2	Toxaphene	ND		20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	89		45-120
877-09-8	Tetrachloro-m-xylene	76		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-222.D
Lims ID: 480-121501-A-4-A
Client ID: TP-16
Sample Type: Client
Inject. Date: 26-Jul-2017 16:13:15 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:53:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.997	-0.007	11535000	0.5000	
2	2.193	2.197	-0.004	8514436	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.523	-0.006	322610	0.0153	
2	2.903	2.907	-0.004	301998	0.0142	
					RPD = 7.22	
$ 34 DCB Decachlorobiphenyl						
1	7.773	7.783	-0.010	420482	0.0178	
2	8.840	8.840	0.000	293843	0.0215	
					RPD = 18.87	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

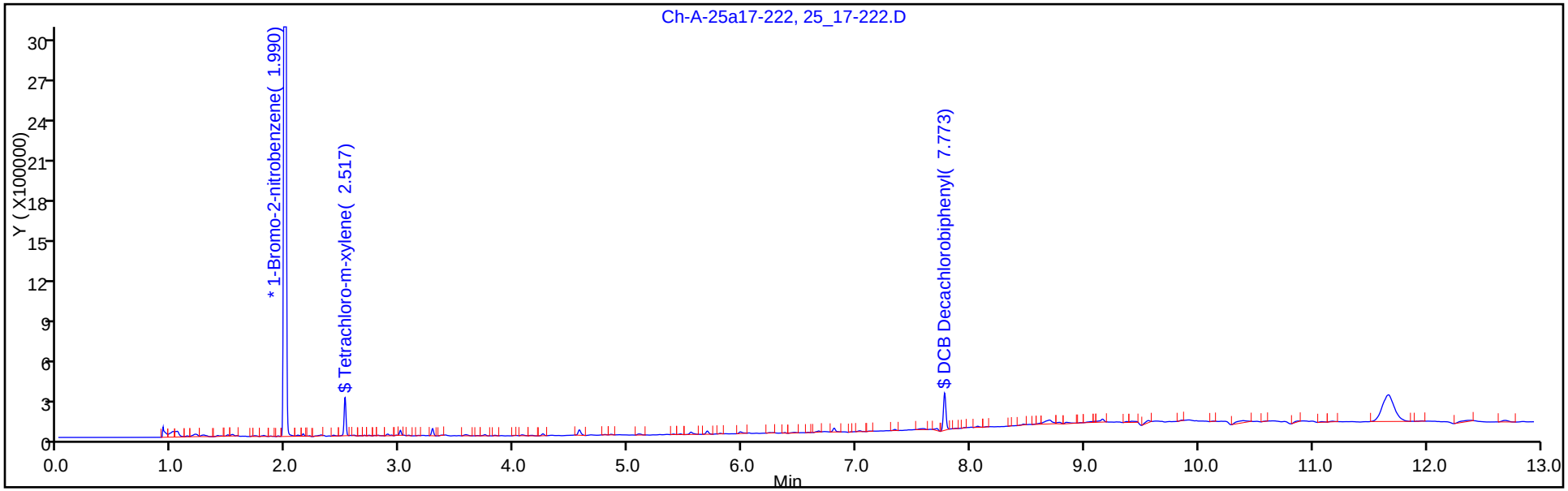
Report Date: 27-Jul-2017 11:17:41 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

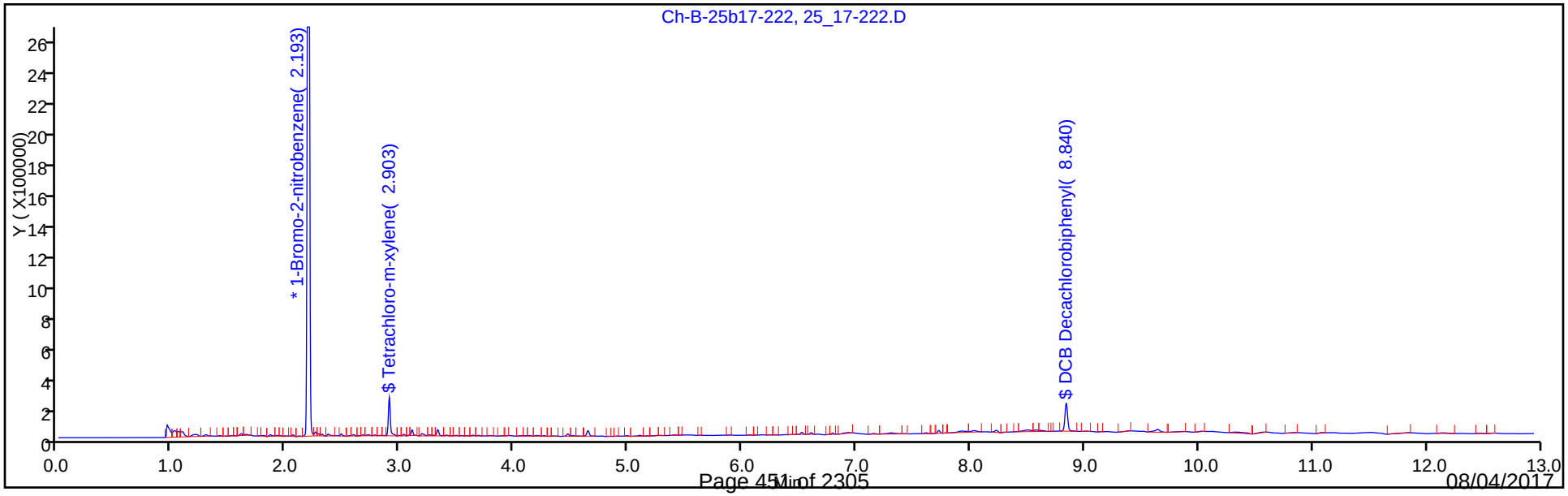
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-222.D

Injection Date:	26-Jul-2017 16:13:15	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-4-A	Lab Sample ID:	480-121501-4	Worklist Smp#:	17
Client ID:	TP-16				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-16 | Lab Sample ID: 480-121501-4

Matrix: Solid | Lab File ID: 25_17-222.D

Analysis Method: 8081B | Date Collected: 07/21/2017 14:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.07(g) | Date Analyzed: 07/26/2017 16:13

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	107		45-120
877-09-8	Tetrachloro-m-xylene	71		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-222.D
Lims ID: 480-121501-A-4-A
Client ID: TP-16
Sample Type: Client
Inject. Date: 26-Jul-2017 16:13:15 ALS Bottle#: 0 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:53:43

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.997	-0.007	11535000	0.5000	
2	2.193	2.197	-0.004	8514436	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.523	-0.006	322610	0.0153	
2	2.903	2.907	-0.004	301998	0.0142	
					RPD = 7.22	
$ 34 DCB Decachlorobiphenyl						
1	7.773	7.783	-0.010	420482	0.0178	
2	8.840	8.840	0.000	293843	0.0215	
					RPD = 18.87	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

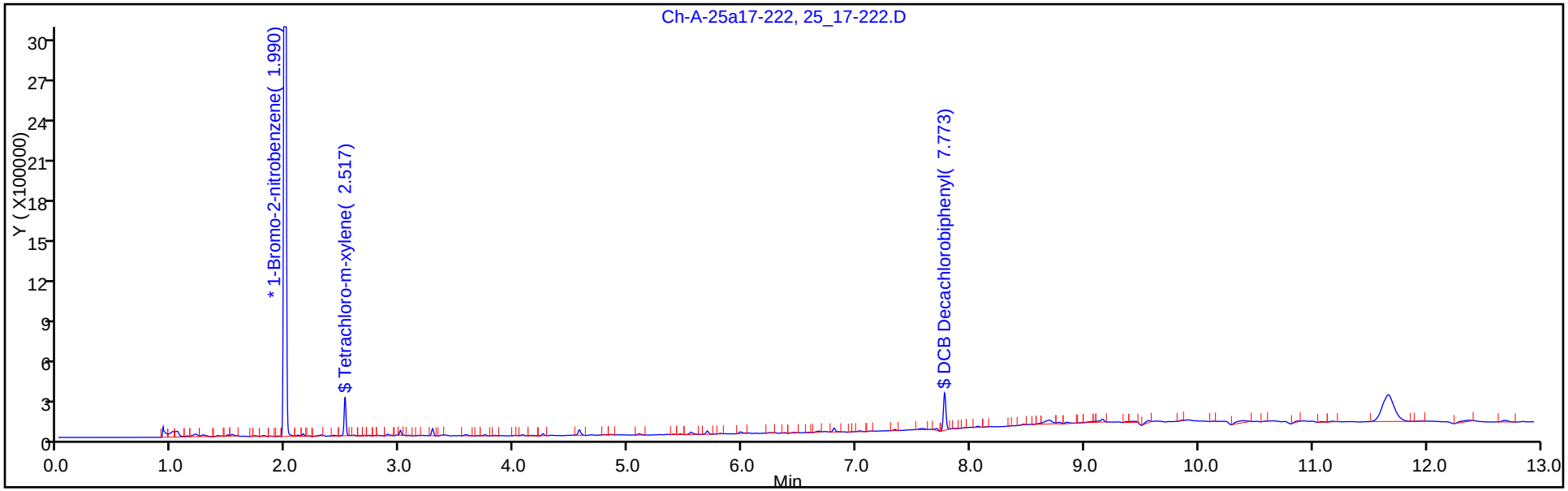
Report Date: 27-Jul-2017 11:17:42 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

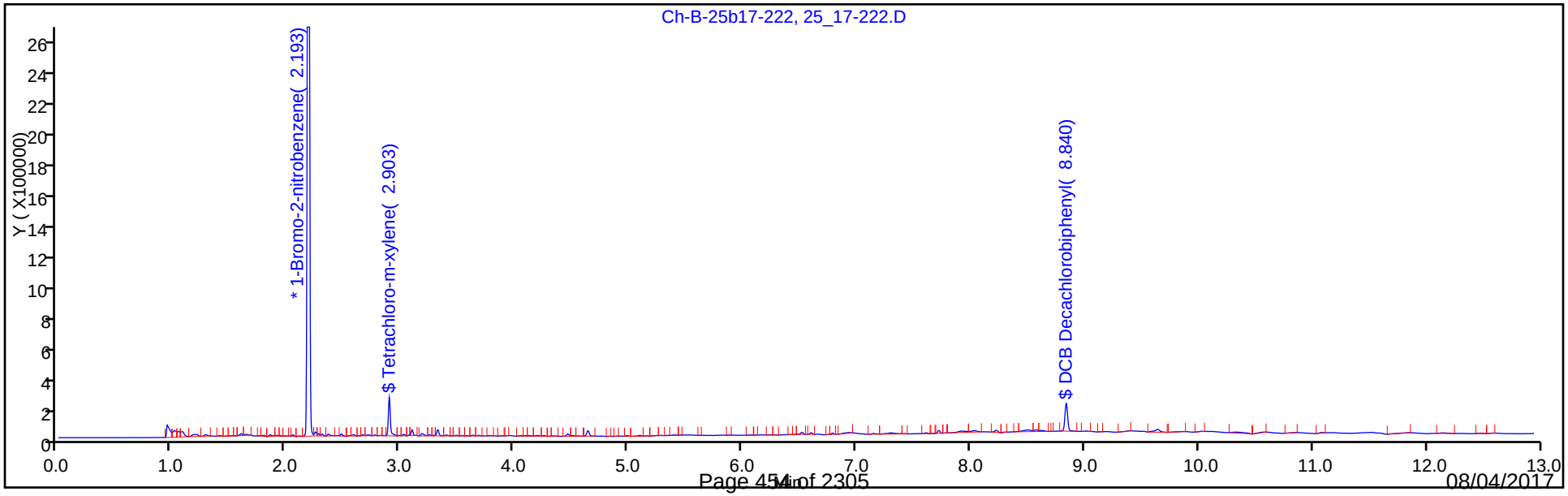
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-222.D

Injection Date:	26-Jul-2017 16:13:15	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-4-A	Lab Sample ID:	480-121501-4	Worklist Smp#:	17
Client ID:	TP-16				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-17 | Lab Sample ID: 480-121501-5

Matrix: Solid | Lab File ID: 25_17-223.D

Analysis Method: 8081B | Date Collected: 07/21/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.31(g) | Date Analyzed: 07/26/2017 16:32

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.0	0.39
72-55-9	4,4'-DDE	ND		2.0	0.42
50-29-3	4,4'-DDT	ND		2.0	0.47
309-00-2	Aldrin	ND		2.0	0.49
319-84-6	alpha-BHC	ND		2.0	0.36
5103-71-9	alpha-Chlordane	ND		2.0	1.0
319-85-7	beta-BHC	ND		2.0	0.36
319-86-8	delta-BHC	0.47	J B	2.0	0.37
60-57-1	Dieldrin	ND		2.0	0.48
959-98-8	Endosulfan I	ND		2.0	0.38
33213-65-9	Endosulfan II	ND		2.0	0.36
1031-07-8	Endosulfan sulfate	ND		2.0	0.37
72-20-8	Endrin	ND		2.0	0.40
7421-93-4	Endrin aldehyde	ND		2.0	0.51
53494-70-5	Endrin ketone	ND		2.0	0.49
58-89-9	gamma-BHC (Lindane)	ND		2.0	0.37
5103-74-2	gamma-Chlordane	ND		2.0	0.64
76-44-8	Heptachlor	ND		2.0	0.43
1024-57-3	Heptachlor epoxide	ND		2.0	0.52
72-43-5	Methoxychlor	ND		2.0	0.41
8001-35-2	Toxaphene	ND		20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	91		45-120
877-09-8	Tetrachloro-m-xylene	79		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-223.D
Lims ID: 480-121501-A-5-A
Client ID: TP-17
Sample Type: Client
Inject. Date: 26-Jul-2017 16:32:59 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:55:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.987	1.997	-0.010	11391886	0.5000	
2	2.193	2.197	-0.004	8012936	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.523	-0.006	330279	0.0158	
2	2.903	2.907	-0.004	343137	0.0171	
					RPD = 7.84	
9 delta-BHC						M
1	3.420	3.423	-0.003	8485	0.001168	M
2	4.187	4.183	0.004	4932	0.001269	M
					RPD = 8.30	
$ 34 DCB Decachlorobiphenyl						
1	7.773	7.783	-0.010	423885	0.0181	
2	8.840	8.840	0.000	290496	0.0226	
					RPD = 21.72	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

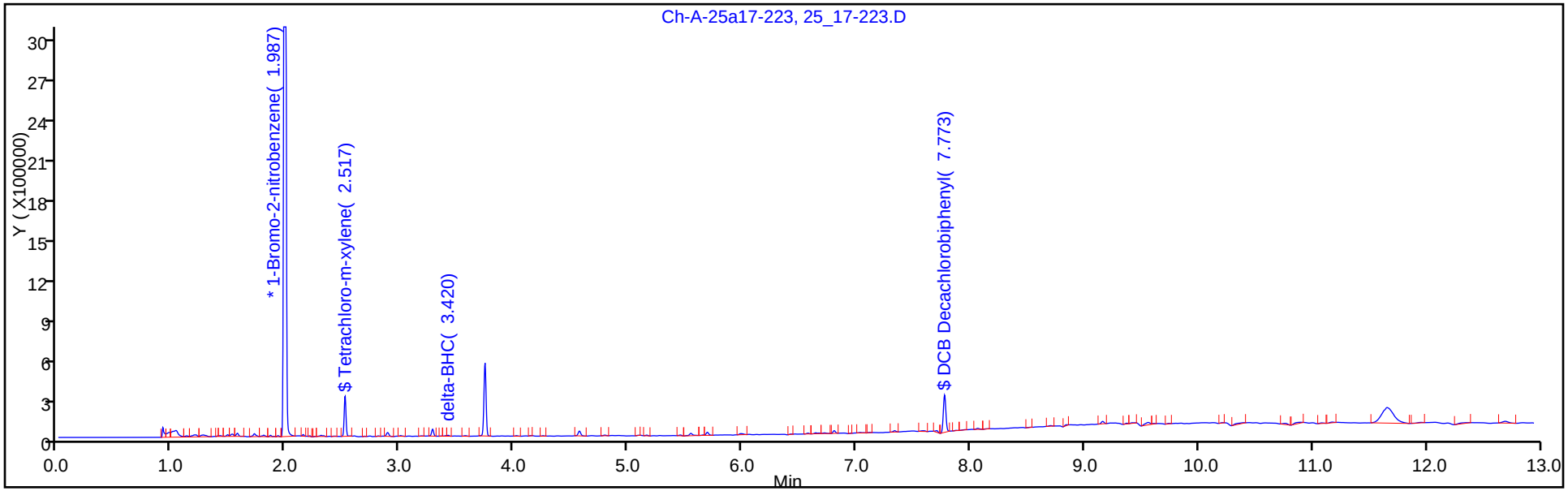
Report Date: 27-Jul-2017 11:17:44 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

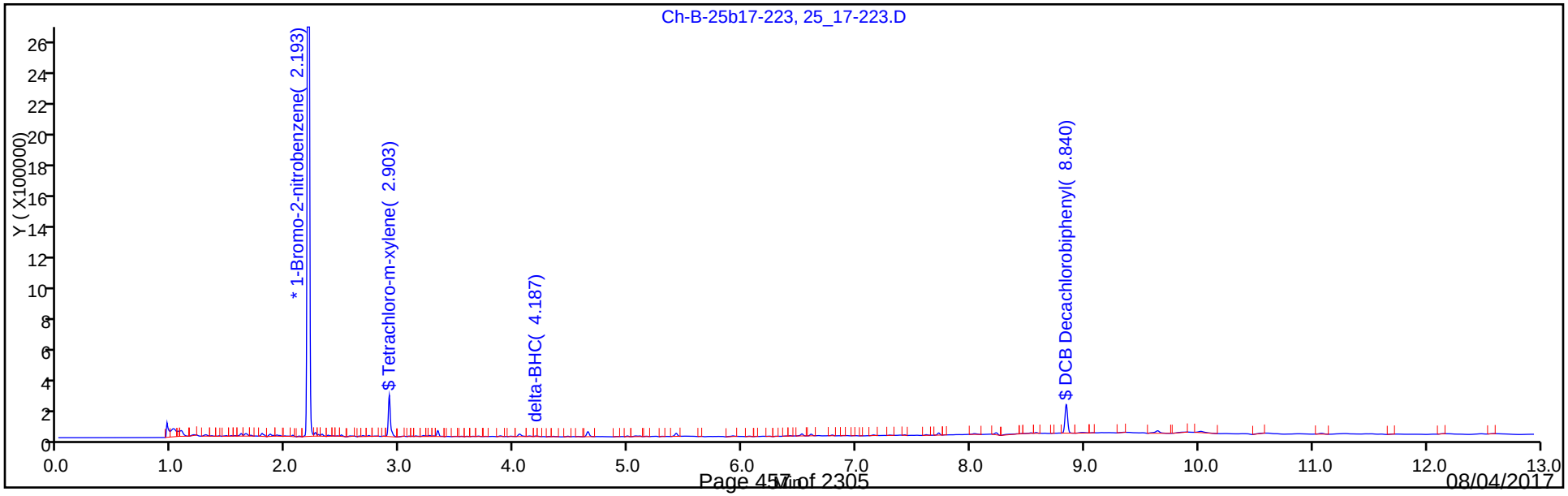
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-223.D

Injection Date:	26-Jul-2017 16:32:59	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-5-A	Lab Sample ID:	480-121501-5	Worklist Smp#:	18
Client ID:	TP-17				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

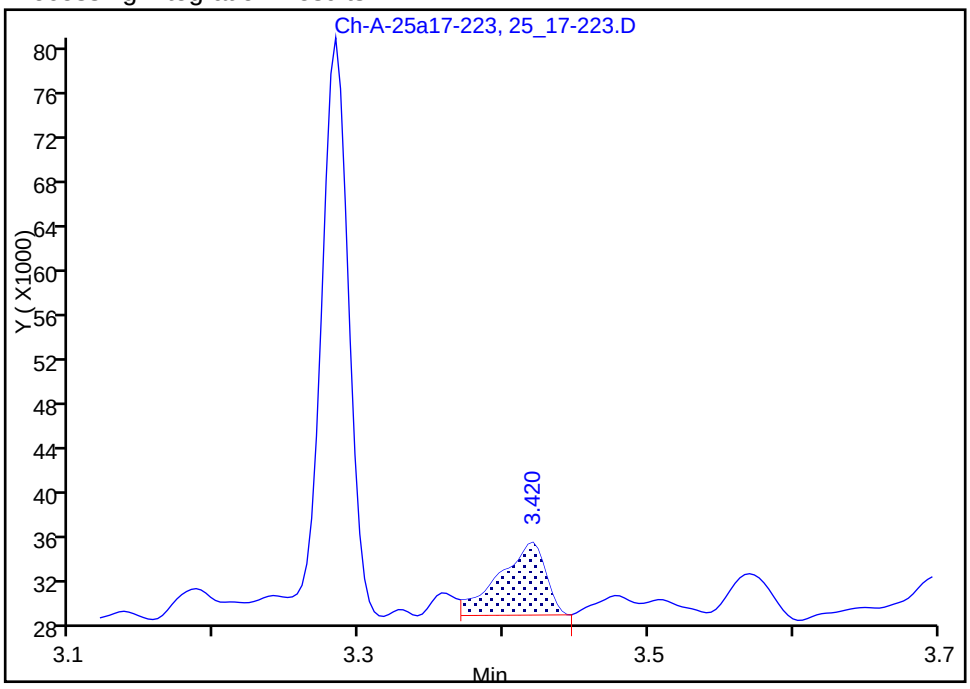
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-223.D				
Injection Date:	26-Jul-2017 16:32:59	Instrument ID:	HP6890-25		
Lims ID:	480-121501-A-5-A	Lab Sample ID:	480-121501-5		
Client ID:	TP-17				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

9 delta-BHC, CAS: 319-86-8

Signal: 1

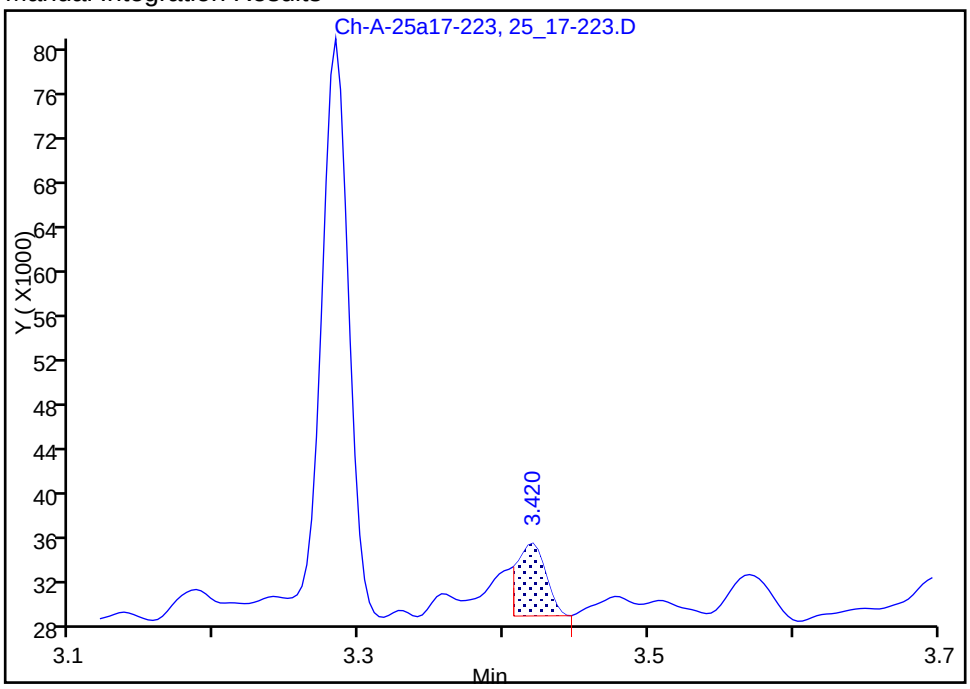
Processing Integration Results

RT: 3.42
Area: 14298
Amount: 0.001303
Amount Units: ng/ul



Manual Integration Results

RT: 3.42
Area: 8485
Amount: 0.001168
Amount Units: ng/ul



Reviewer: NearyM, 27-Jul-2017 10:54:49

Audit Action: Split an Integrated Peak Audit Reason: Shouldering

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-17 | Lab Sample ID: 480-121501-5

Matrix: Solid | Lab File ID: 25_17-223.D

Analysis Method: 8081B | Date Collected: 07/21/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.31(g) | Date Analyzed: 07/26/2017 16:32

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	113		45-120
877-09-8	Tetrachloro-m-xylene	85		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-223.D
Lims ID: 480-121501-A-5-A
Client ID: TP-17
Sample Type: Client
Inject. Date: 26-Jul-2017 16:32:59 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:55:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.987	1.997	-0.010	11391886	0.5000	
2	2.193	2.197	-0.004	8012936	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.523	-0.006	330279	0.0158	
2	2.903	2.907	-0.004	343137	0.0171	
					RPD = 7.84	
9 delta-BHC						M
1	3.420	3.423	-0.003	8485	0.001168	M
2	4.187	4.183	0.004	4932	0.001269	M
					RPD = 8.30	
$ 34 DCB Decachlorobiphenyl						
1	7.773	7.783	-0.010	423885	0.0181	
2	8.840	8.840	0.000	290496	0.0226	
					RPD = 21.72	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

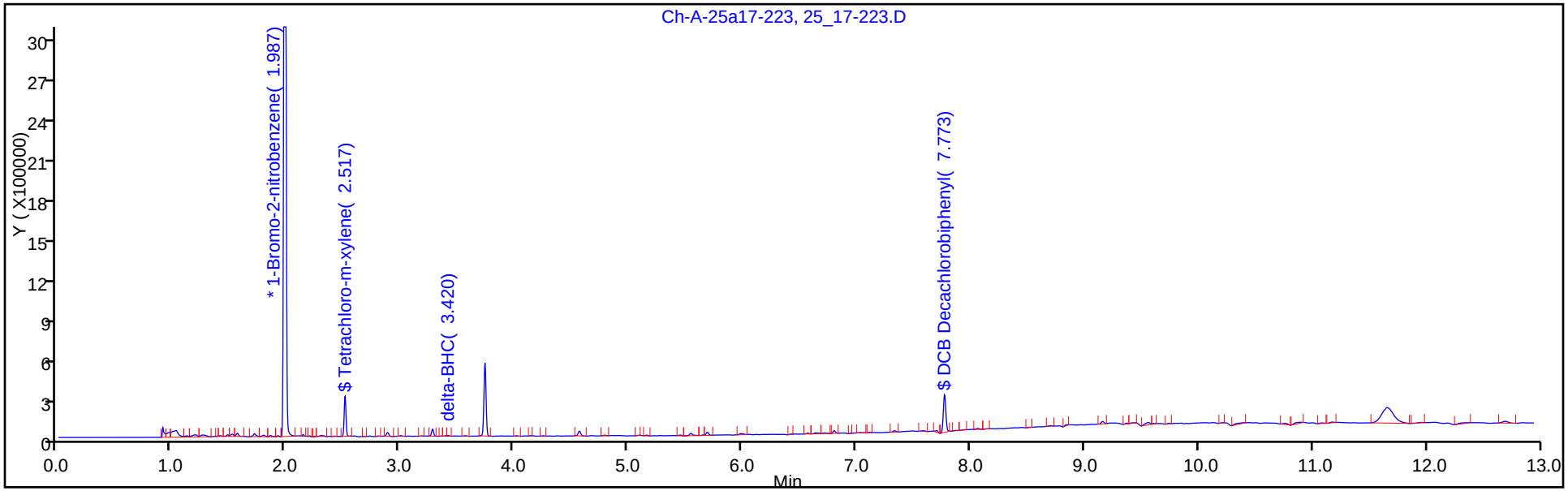
Report Date: 27-Jul-2017 11:17:44 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

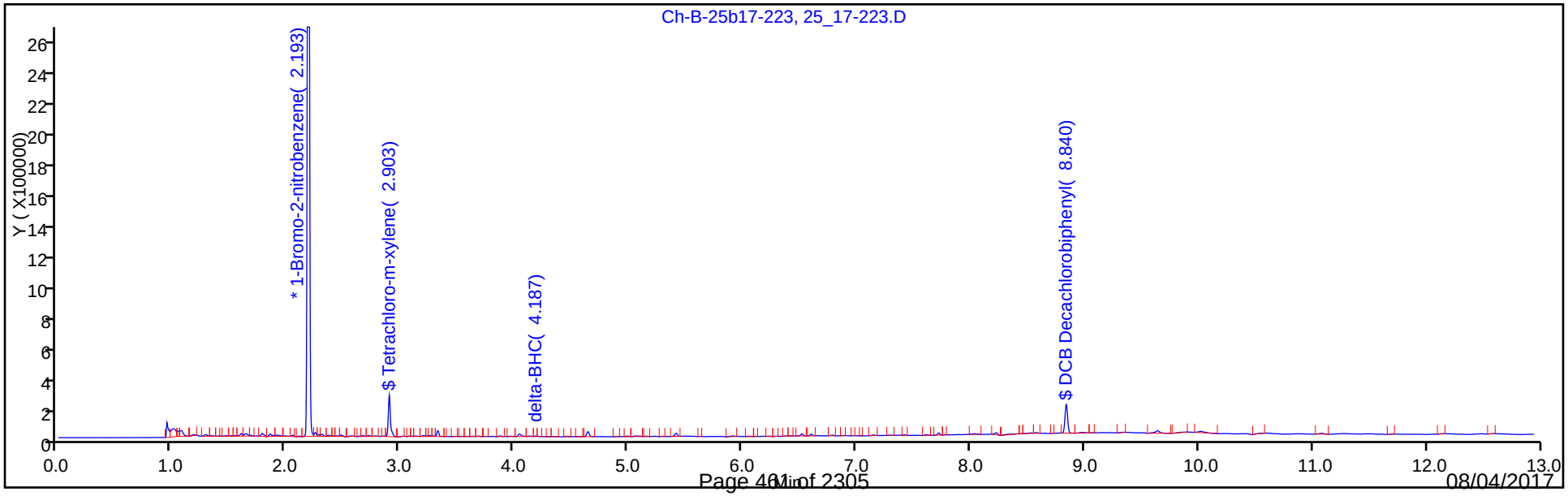
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-223.D

Injection Date:	26-Jul-2017 16:32:59	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-5-A	Lab Sample ID:	480-121501-5	Worklist Smp#:	18
Client ID:	TP-17				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

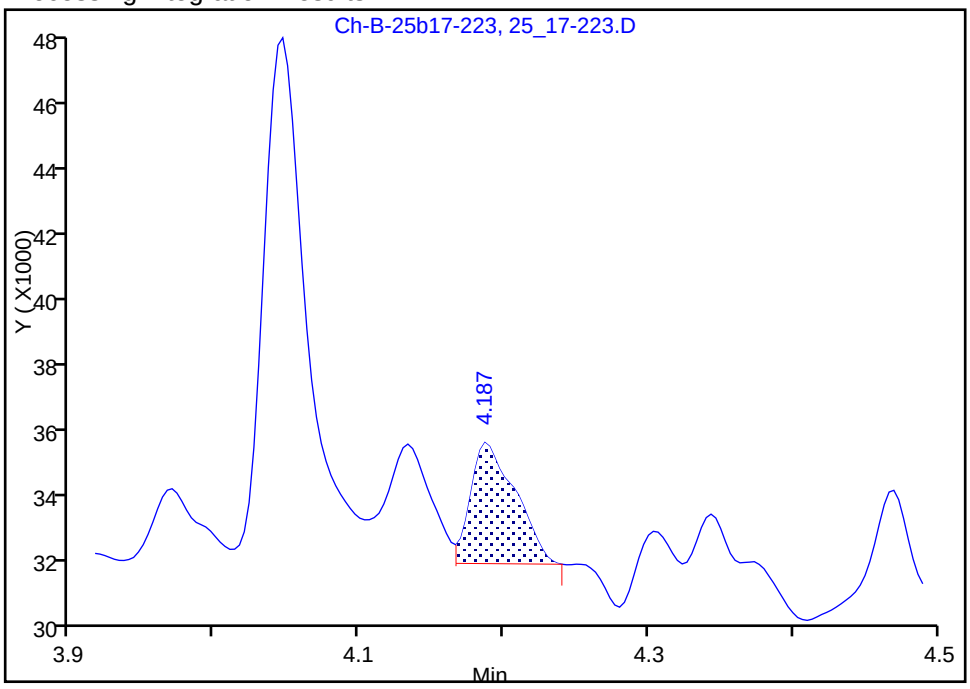
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-223.D				
Injection Date:	26-Jul-2017 16:32:59	Instrument ID:	HP6890-25		
Lims ID:	480-121501-A-5-A	Lab Sample ID:	480-121501-5		
Client ID:	TP-17				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

9 delta-BHC, CAS: 319-86-8

Signal: 2

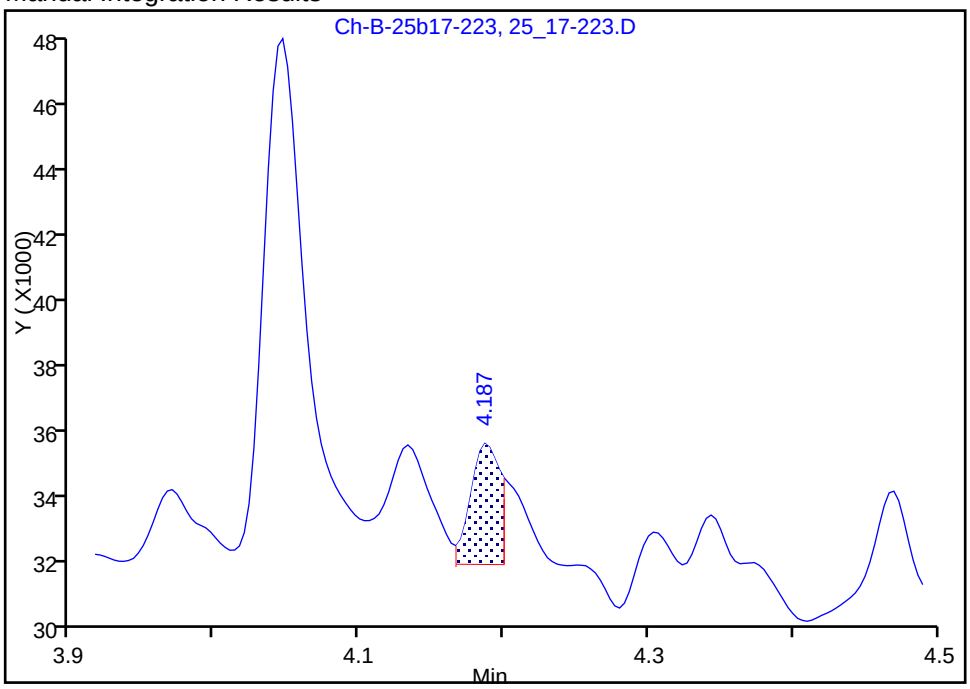
Processing Integration Results

RT: 4.19
Area: 7636
Amount: 0.001362
Amount Units: ng/ul



Manual Integration Results

RT: 4.19
Area: 4932
Amount: 0.001269
Amount Units: ng/ul



Reviewer: NearyM, 27-Jul-2017 10:55:15
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121501-6

Matrix: Solid | Lab File ID: 25_17-224.D

Analysis Method: 8081B | Date Collected: 07/21/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.10(g) | Date Analyzed: 07/26/2017 16:52

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		2.0	0.39
72-55-9	4,4'-DDE	ND		2.0	0.42
50-29-3	4,4'-DDT	ND		2.0	0.46
309-00-2	Aldrin	ND		2.0	0.49
319-84-6	alpha-BHC	ND		2.0	0.36
5103-71-9	alpha-Chlordane	ND		2.0	0.99
319-85-7	beta-BHC	ND		2.0	0.36
319-86-8	delta-BHC	0.41	J B	2.0	0.37
60-57-1	Dieldrin	ND		2.0	0.48
959-98-8	Endosulfan I	ND		2.0	0.38
33213-65-9	Endosulfan II	ND		2.0	0.36
1031-07-8	Endosulfan sulfate	ND		2.0	0.37
72-20-8	Endrin	ND		2.0	0.39
7421-93-4	Endrin aldehyde	ND		2.0	0.51
53494-70-5	Endrin ketone	ND		2.0	0.49
58-89-9	gamma-BHC (Lindane)	ND		2.0	0.36
5103-74-2	gamma-Chlordane	ND		2.0	0.63
76-44-8	Heptachlor	ND		2.0	0.43
1024-57-3	Heptachlor epoxide	ND		2.0	0.51
72-43-5	Methoxychlor	ND		2.0	0.40
8001-35-2	Toxaphene	ND		20	12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	90		45-120
877-09-8	Tetrachloro-m-xylene	75		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-224.D
Lims ID: 480-121501-A-6-A
Client ID: DUP
Sample Type: Client
Inject. Date: 26-Jul-2017 16:52:36 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:56:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.997	-0.007	12084042	0.5000	
2	2.197	2.197	0.000	8441183	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.523	-0.006	331230	0.0150	
2	2.903	2.907	-0.004	351888	0.0166	
					RPD = 10.43	
9 delta-BHC						M
1	3.417	3.423	-0.006	2770	0.001032	M
2	4.190	4.183	0.007	1496	0.001149	
					RPD = 10.75	
$ 34 DCB Decachlorobiphenyl						
1	7.773	7.783	-0.010	444330	0.0179	
2	8.840	8.840	0.000	291877	0.0215	
					RPD = 18.20	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

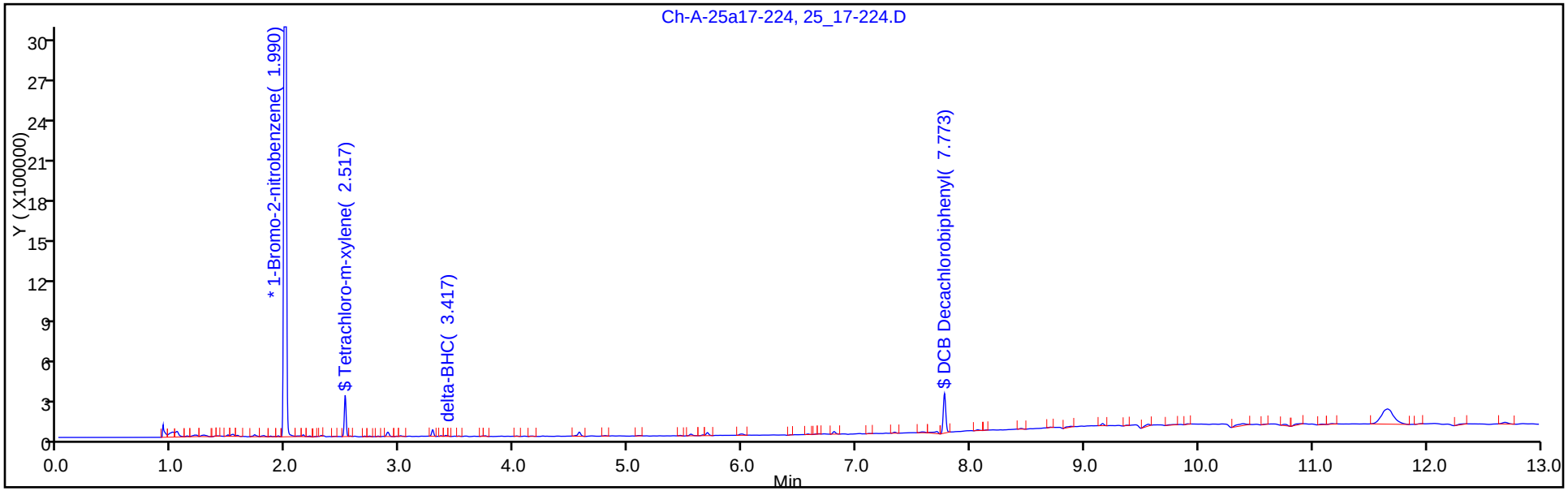
Report Date: 27-Jul-2017 11:17:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

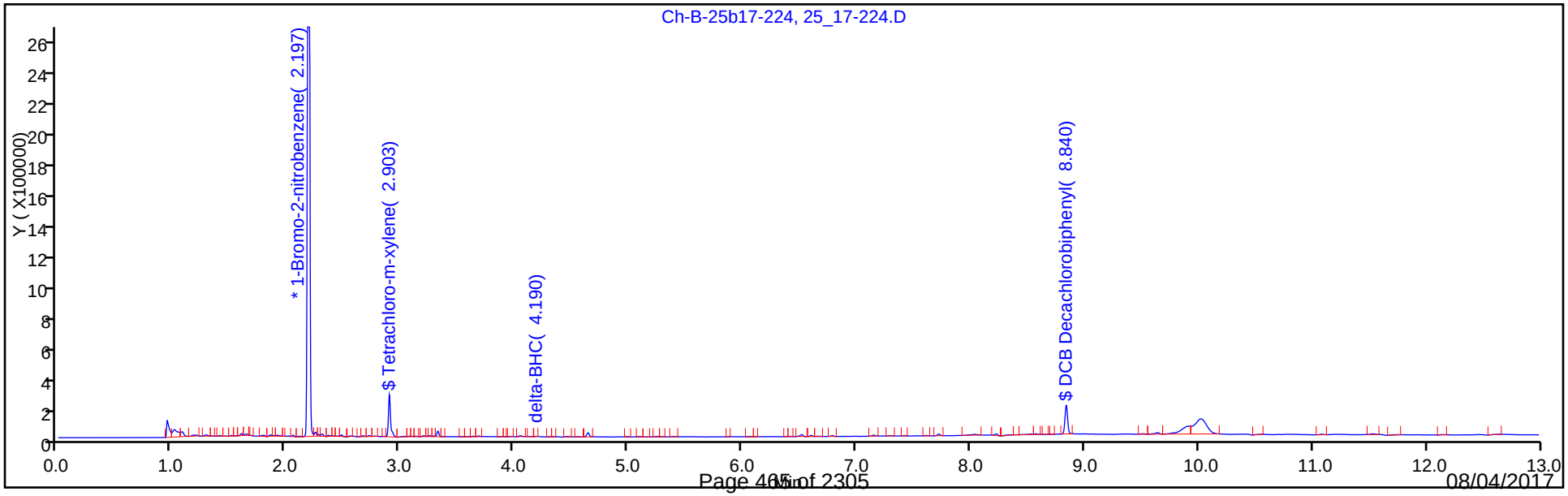
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-224.D

Injection Date:	26-Jul-2017 16:52:36	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-6-A	Lab Sample ID:	480-121501-6	Worklist Smp#:	19
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

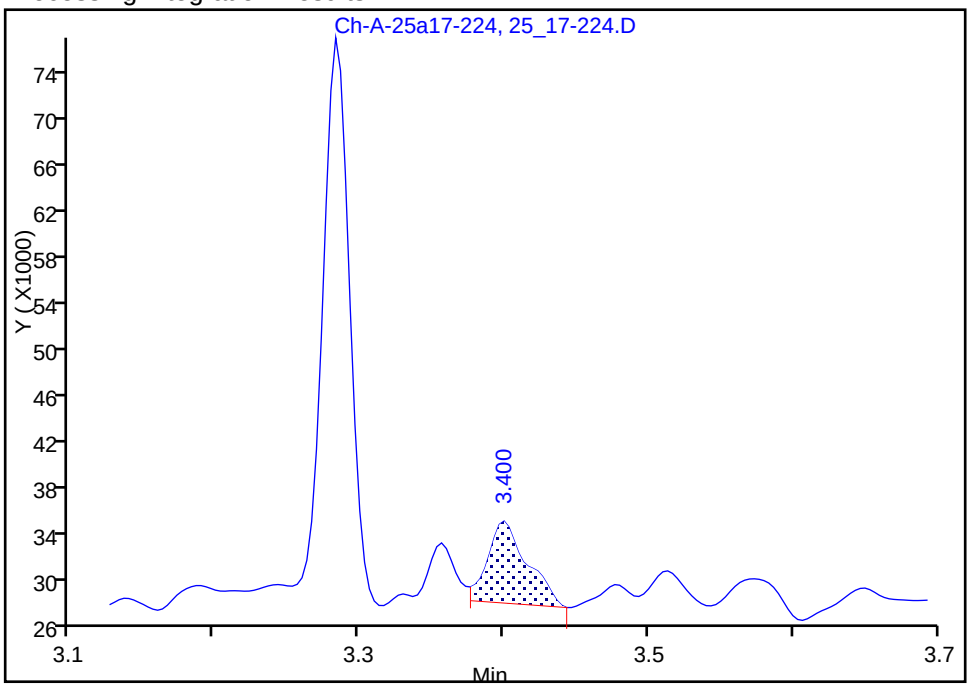
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-224.D				
Injection Date:	26-Jul-2017 16:52:36	Instrument ID:	HP6890-25		
Lims ID:	480-121501-A-6-A	Lab Sample ID:	480-121501-6		
Client ID:	DUP				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

9 delta-BHC, CAS: 319-86-8

Signal: 1

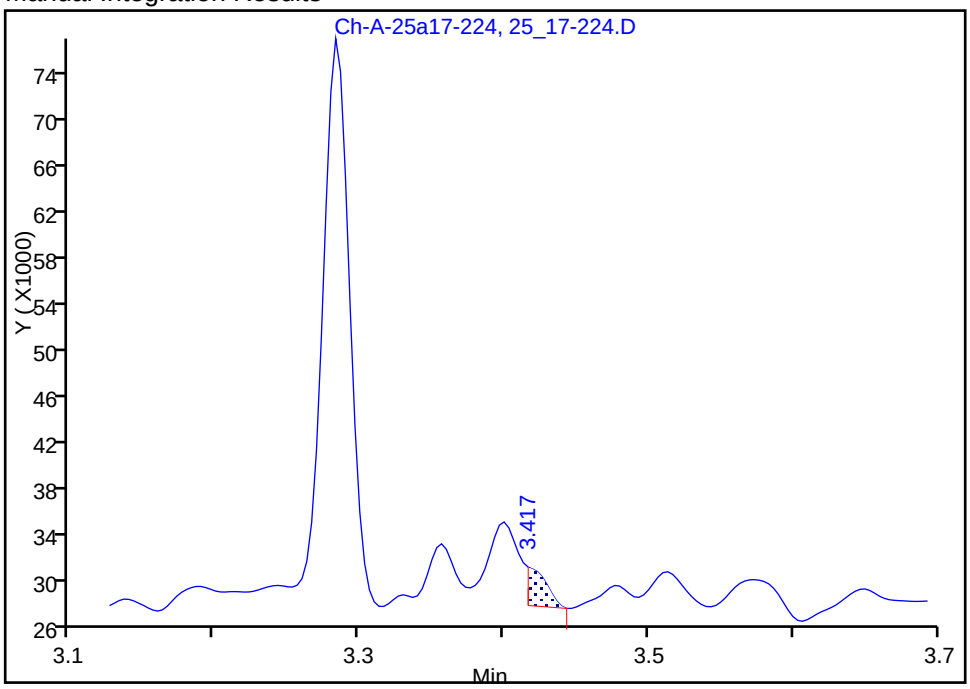
Processing Integration Results

RT: 3.40
Area: 13144
Amount: 0.001258
Amount Units: ng/ul



Manual Integration Results

RT: 3.42
Area: 2770
Amount: 0.001032
Amount Units: ng/ul



Reviewer: NearyM, 27-Jul-2017 10:56:30
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121501-6

Matrix: Solid | Lab File ID: 25_17-224.D

Analysis Method: 8081B | Date Collected: 07/21/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.10(g) | Date Analyzed: 07/26/2017 16:52

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	108		45-120
877-09-8	Tetrachloro-m-xylene	83		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-224.D
Lims ID: 480-121501-A-6-A
Client ID: DUP
Sample Type: Client
Inject. Date: 26-Jul-2017 16:52:36 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:56:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						
1	1.990	1.997	-0.007	12084042	0.5000	
2	2.197	2.197	0.000	8441183	0.5000	
					RPD = 0.00	
$ 4 Tetrachloro-m-xylene						
1	2.517	2.523	-0.006	331230	0.0150	
2	2.903	2.907	-0.004	351888	0.0166	
					RPD = 10.43	
9 delta-BHC						M
1	3.417	3.423	-0.006	2770	0.001032	M
2	4.190	4.183	0.007	1496	0.001149	
					RPD = 10.75	
$ 34 DCB Decachlorobiphenyl						
1	7.773	7.783	-0.010	444330	0.0179	
2	8.840	8.840	0.000	291877	0.0215	
					RPD = 18.20	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

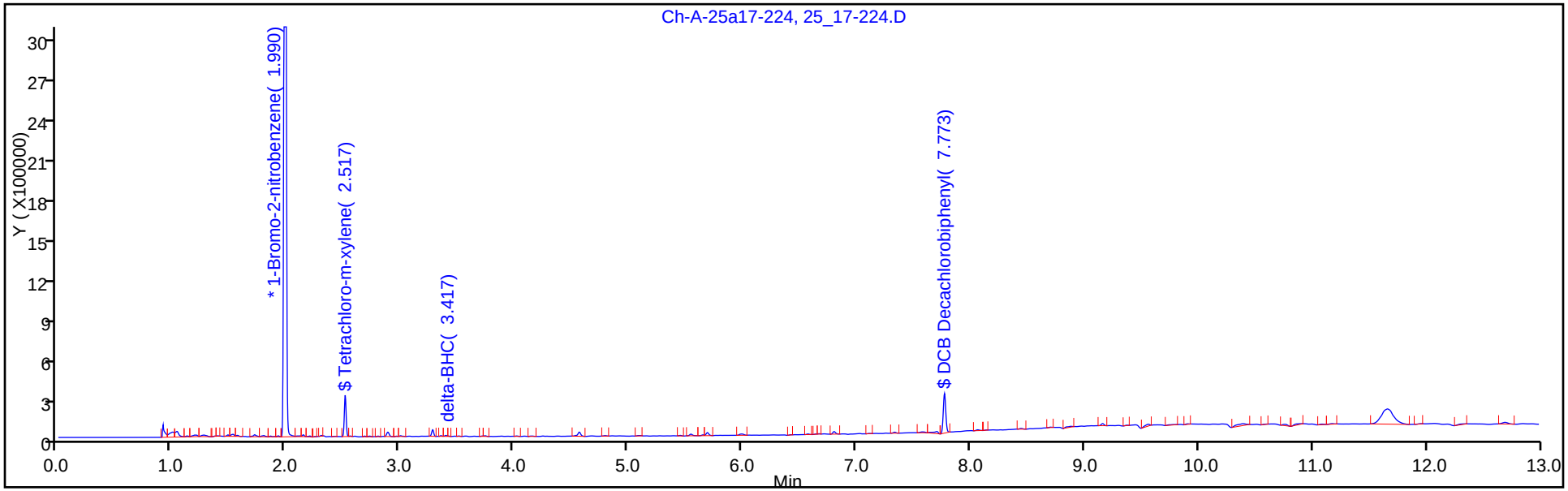
Report Date: 27-Jul-2017 11:17:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

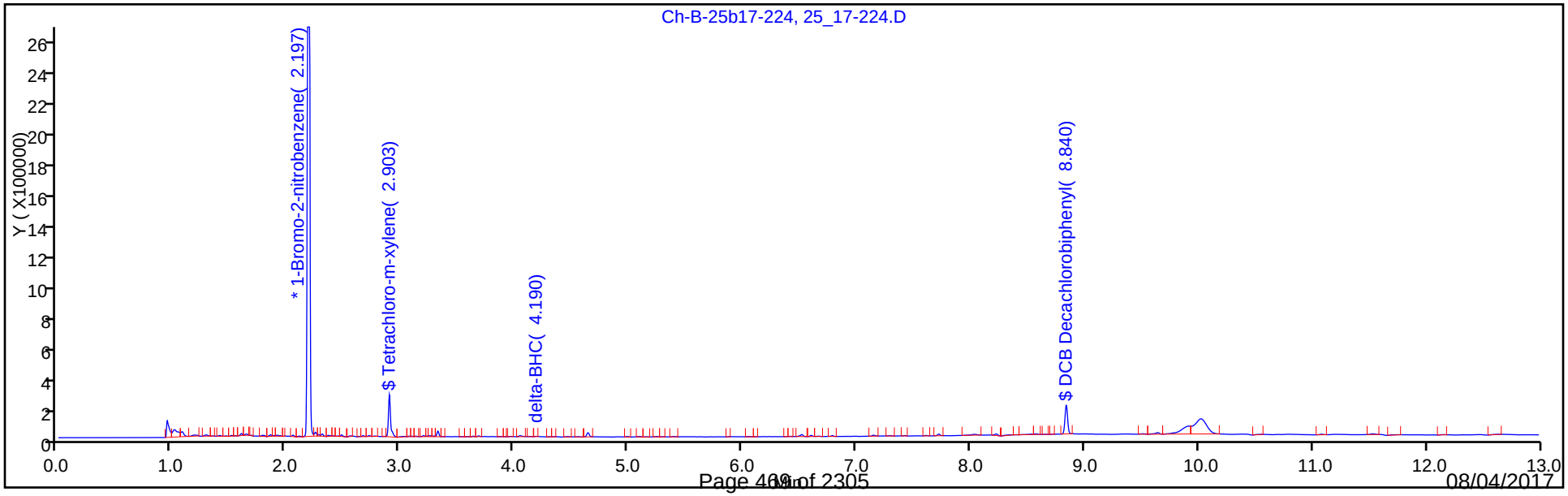
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-224.D

Injection Date:	26-Jul-2017 16:52:36	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-6-A	Lab Sample ID:	480-121501-6	Worklist Smp#:	19
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30349

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0441	0.0439	0.0441	0.0547	0.0515	Lin1	-0.001	0.0520							0.9950		0.9900
Toxaphene Peak 2	0.0547	0.0591	0.0649	0.0773	0.0715	Lin1	-0.001	0.0735							0.9960		0.9900
Toxaphene Peak 3	0.0301	0.0299	0.0341	0.0418	0.0374	Lin1	-0.001	0.0389							0.9940		0.9900
Toxaphene Peak 4	0.0326	0.0311	0.0351	0.0432	0.0410	Lin1	-0.001	0.0414							0.9950		0.9900
Toxaphene Peak 5	0.0307	0.0306	0.0444	0.0397	0.0365	Lin1	0	0.0391							0.9920		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30349

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Lin1	62848	124125	631428	1464656	2165815	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 2	BNB	Lin1	77888	167303	928600	2071485	3007432	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 3	BNB	Lin1	42823	84509	487478	1120183	1573764	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 4	BNB	Lin1	46515	88103	502091	1157723	1722613	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 5	BNB	Lin1	43710	86718	635060	1064328	1532368	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Apr-2017 14:18:52 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:24 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 13-Apr-2017 14:39:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.043	-0.003	14013213	0.5000	0.5000	
2	2.257	2.260	-0.003	9972056	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.683	5.680	0.003	2165815	1.50	1.50	
1	5.807	5.803	0.004	3007432	1.50	1.48	
1	6.037	6.033	0.004	1573764	1.50	1.46	
1	6.373	6.370	0.003	1722613	1.50	1.50	
1	6.470	6.460	0.010	1532368	1.50	1.41	
		Average of Peak Amounts =				1.47	
2	6.013	6.013	0.000	641482	1.50	1.52	M
2	6.567	6.567	0.000	910515	1.50	1.53	M
2	6.667	6.663	0.004	1742088	1.50	1.50	M
2	6.930	6.930	0.000	1061454	1.50	1.50	M
2	7.463	7.460	0.003	883465	1.50	1.50	M
		Average of Peak Amounts =				1.51	
						RPD = 2.94	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.5ng_00011	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

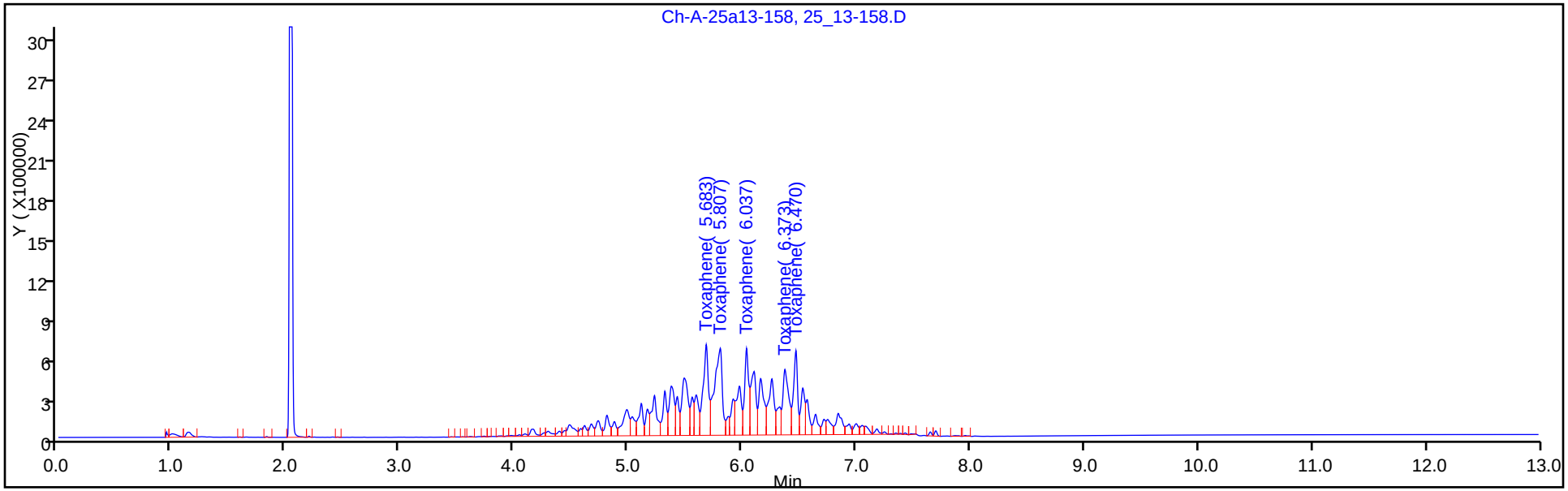
Report Date: 17-Apr-2017 13:19:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

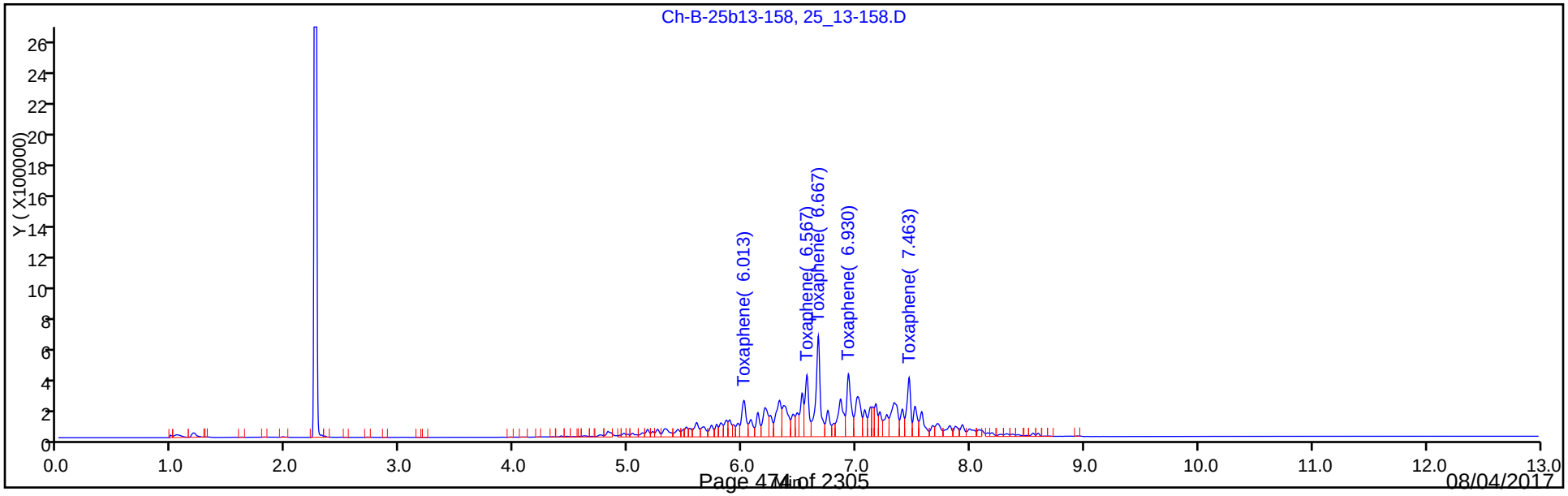
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D

Injection Date:	13-Apr-2017 14:18:52	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Apr-2017 14:38:26 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:27 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 17-Apr-2017 07:13:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.037	2.043	-0.006	13396042	0.5000	0.5000	
2	2.253	2.260	-0.007	9516501	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	1464656	1.00	1.06	M
1	5.803	5.803	0.000	2071485	1.00	1.07	M
1	6.033	6.033	0.000	1120183	1.00	1.09	M
1	6.370	6.370	0.000	1157723	1.00	1.06	M
1	6.467	6.460	0.007	1064328	1.00	1.03	M
		Average of Peak Amounts =				1.06	
2	6.013	6.013	0.000	421431	1.00	1.05	M
2	6.563	6.567	-0.004	578537	1.00	1.02	M
2	6.663	6.663	0.000	1149320	1.00	1.04	M
2	6.930	6.930	0.000	699382	1.00	1.04	M
2	7.460	7.460	0.000	582401	1.00	1.04	M
		Average of Peak Amounts =				1.04	
						RPD = 2.04	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.0ng_00010	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

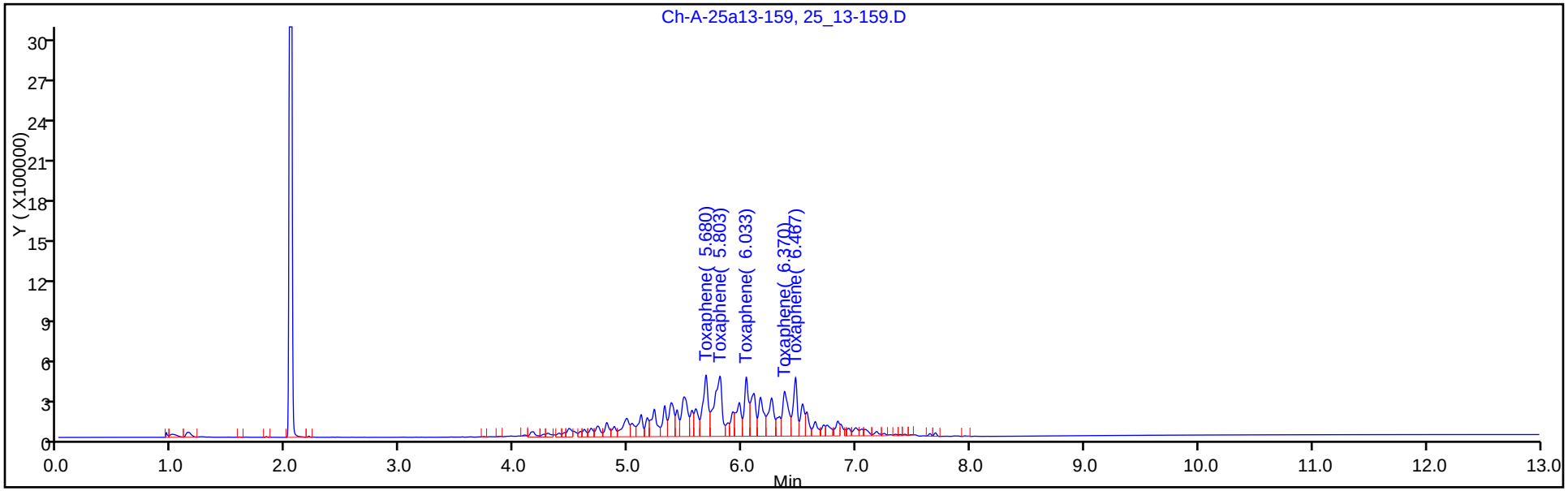
Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

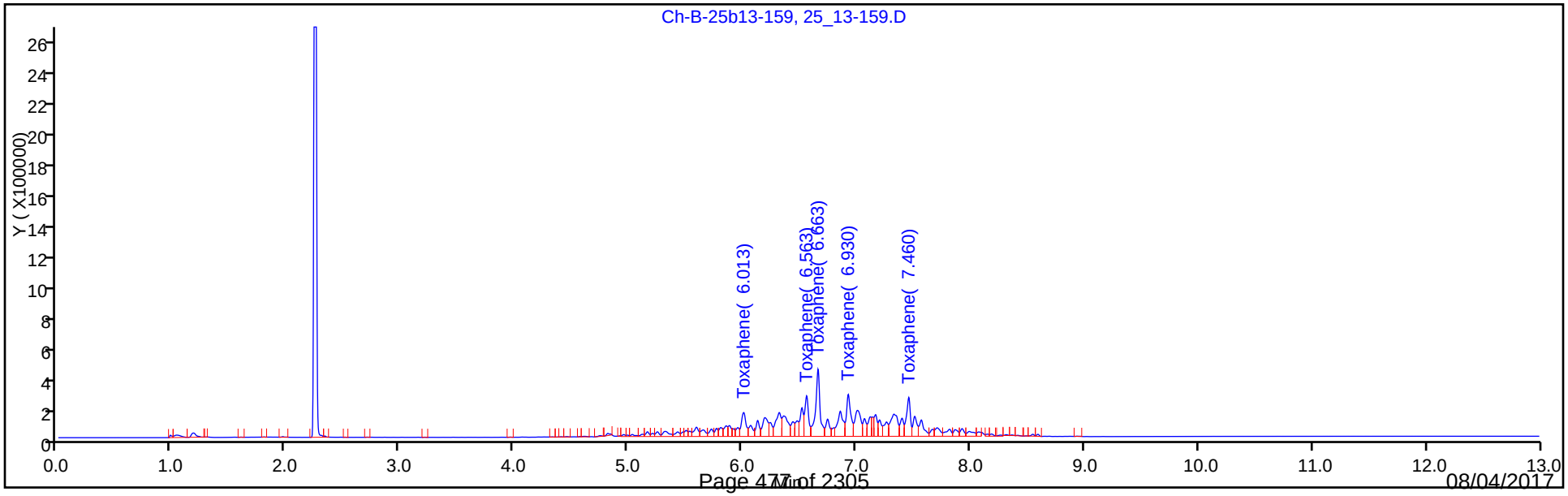
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date:	13-Apr-2017 14:38:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date: 13-Apr-2017 14:38:26 Instrument ID: HP6890-25

Lims ID: std2

Client ID:

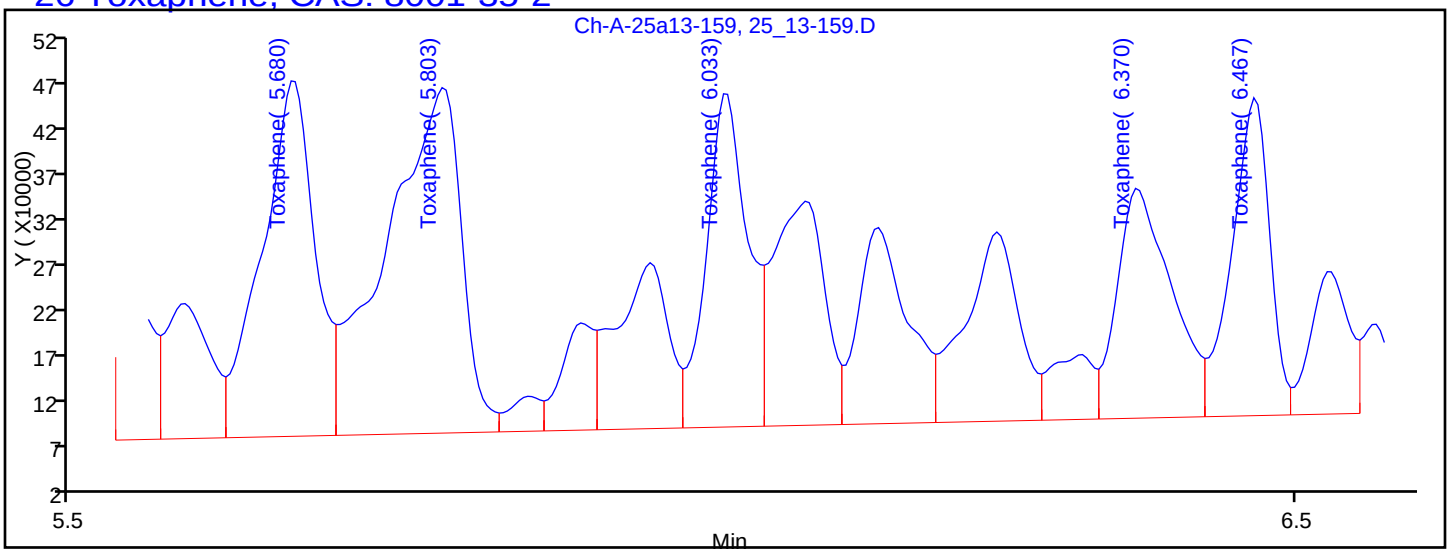
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

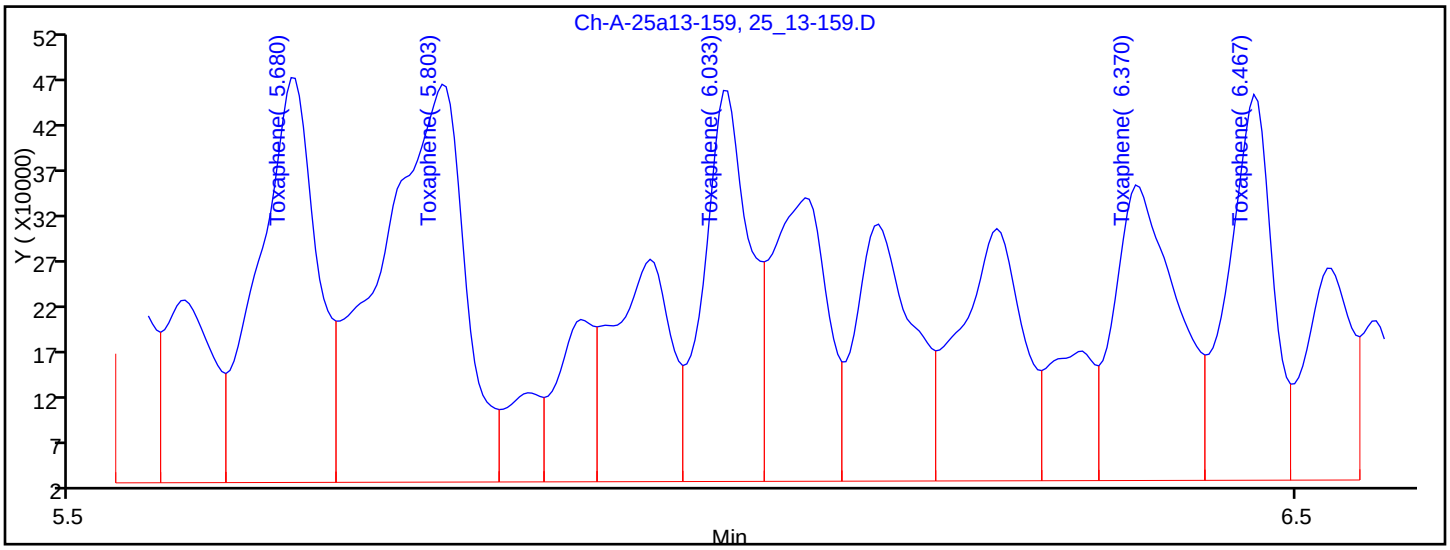
Column: Detector Ch-A-6A58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.680	Response = 1172019
5.803	Response = 1614977
6.033	Response = 866219
6.370	Response = 780770
6.467	Response = 751405



Manual Integration Results

5.680	Response = 1464656	M
5.803	Response = 2071485	M
6.033	Response = 1120183	M
6.370	Response = 1157723	M
6.467	Response = 1064328	M

Reviewer: RudzG, 17-Apr-2017 11:59:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Apr-2017 14:58:10 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:29 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: RudzG Date: 17-Apr-2017 12:00:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.033	2.033	0.000	14315780	0.5000	0.5000	
2	2.253	2.253	0.000	10189120	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	631428	0.5000	0.4365	a
1	5.803	5.803	0.000	928600	0.5000	0.4572	a
1	6.033	6.033	0.000	487478	0.5000	0.4536	a
1	6.370	6.370	0.000	502091	0.5000	0.4405	a
1	6.460	6.460	0.000	635060	0.5000	0.5775	a
		Average of Peak Amounts =				0.4730	
2	6.013	6.013	0.000	180262	0.5000	0.4265	M
2	6.567	6.567	0.000	265822	0.5000	0.4459	M
2	6.663	6.663	0.000	525251	0.5000	0.4530	M
2	6.930	6.930	0.000	325526	0.5000	0.4575	M
2	7.460	7.460	0.000	265983	0.5000	0.4536	M
		Average of Peak Amounts =				0.4473	
						RPD = 5.60	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00098	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

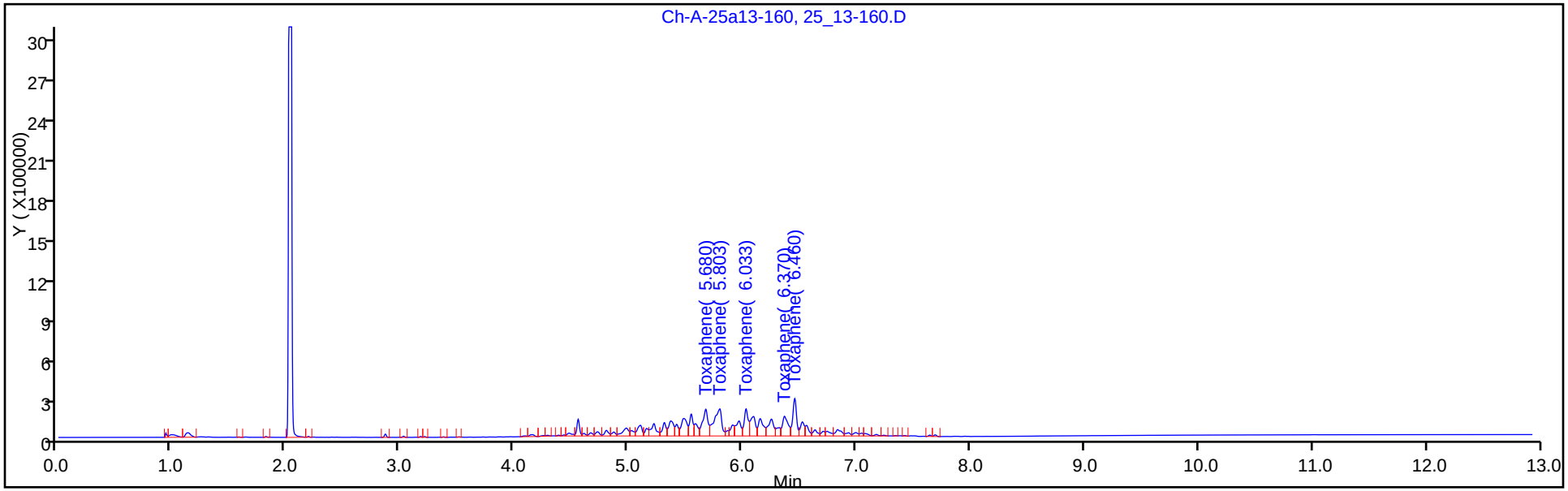
Report Date: 17-Apr-2017 13:19:29 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

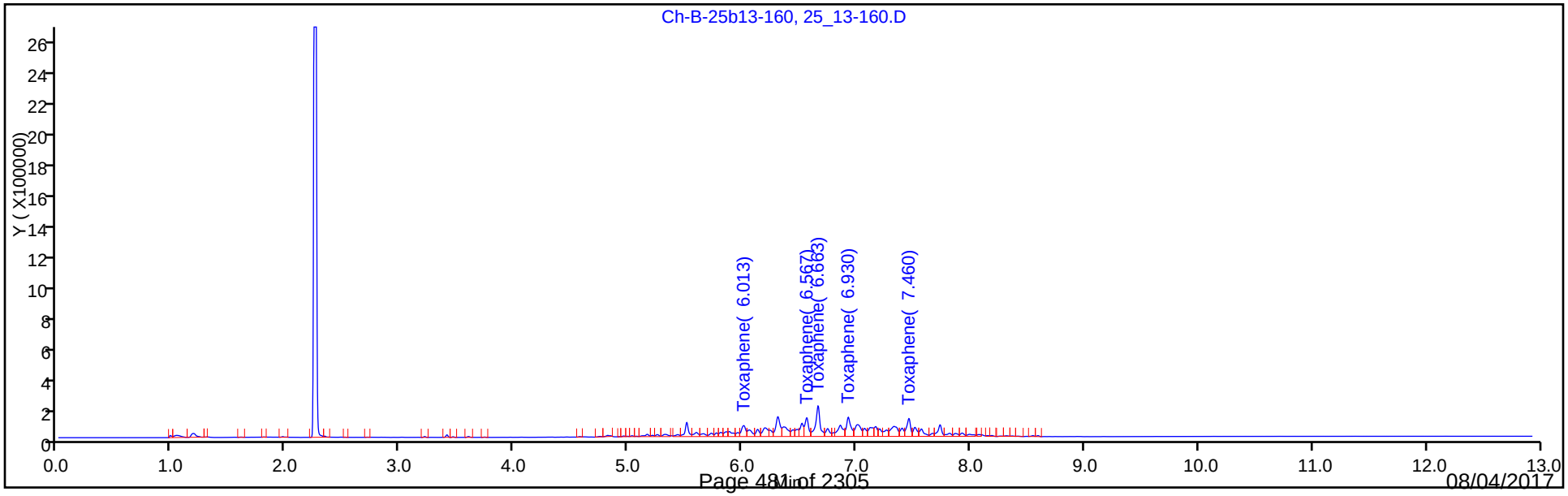
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D

Injection Date:	13-Apr-2017 14:58:10	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 13-Apr-2017 15:17:42 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:31 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:53:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14153249	0.5000	0.5000	
2	2.253	2.253	0.000	10068508	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	124125	0.1000	0.0968	M
1	5.807	5.803	0.004	167303	0.1000	0.0966	M
1	6.037	6.033	0.004	84509	0.1000	0.0931	M
1	6.373	6.370	0.003	88103	0.1000	0.0924	M
1	6.470	6.460	0.010	86718	0.1000	0.0887	M
		Average of Peak Amounts =				0.0935	
2	6.013	6.013	0.000	37153	0.1000	0.0981	M
2	6.567	6.567	0.000	50903	0.1000	0.0963	M
2	6.667	6.663	0.004	96100	0.1000	0.0947	M
2	6.930	6.930	0.000	62310	0.1000	0.0963	M
2	7.463	7.460	0.003	47592	0.1000	0.0943	M
		Average of Peak Amounts =				0.0959	
						RPD = 2.54	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.1ng_00013	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

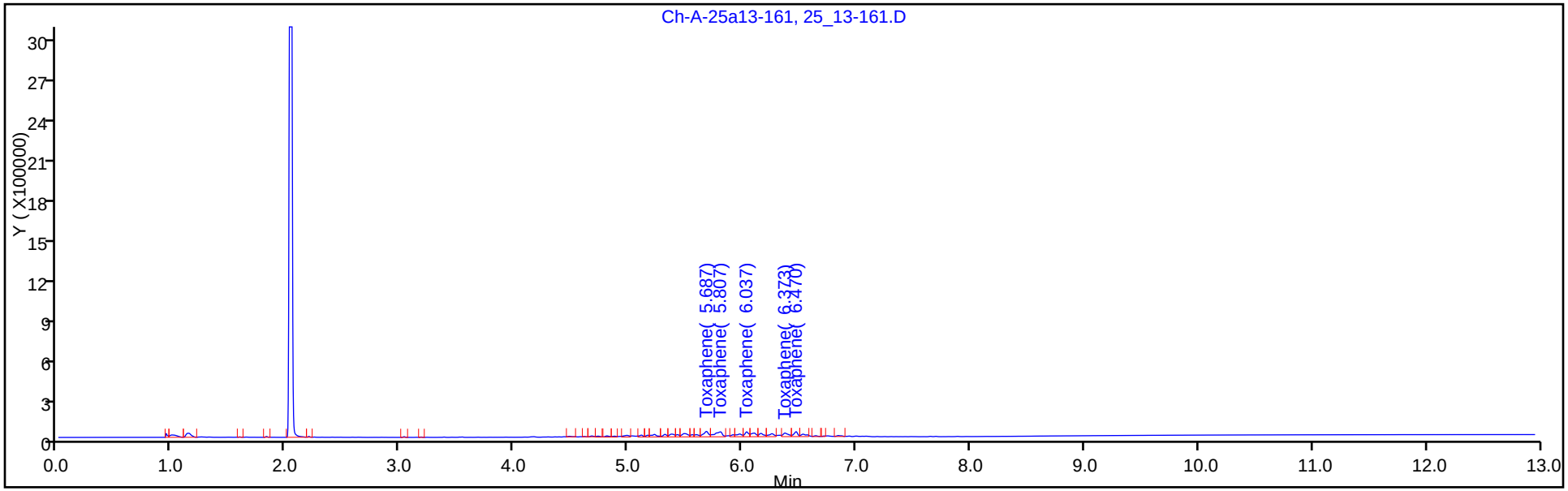
Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

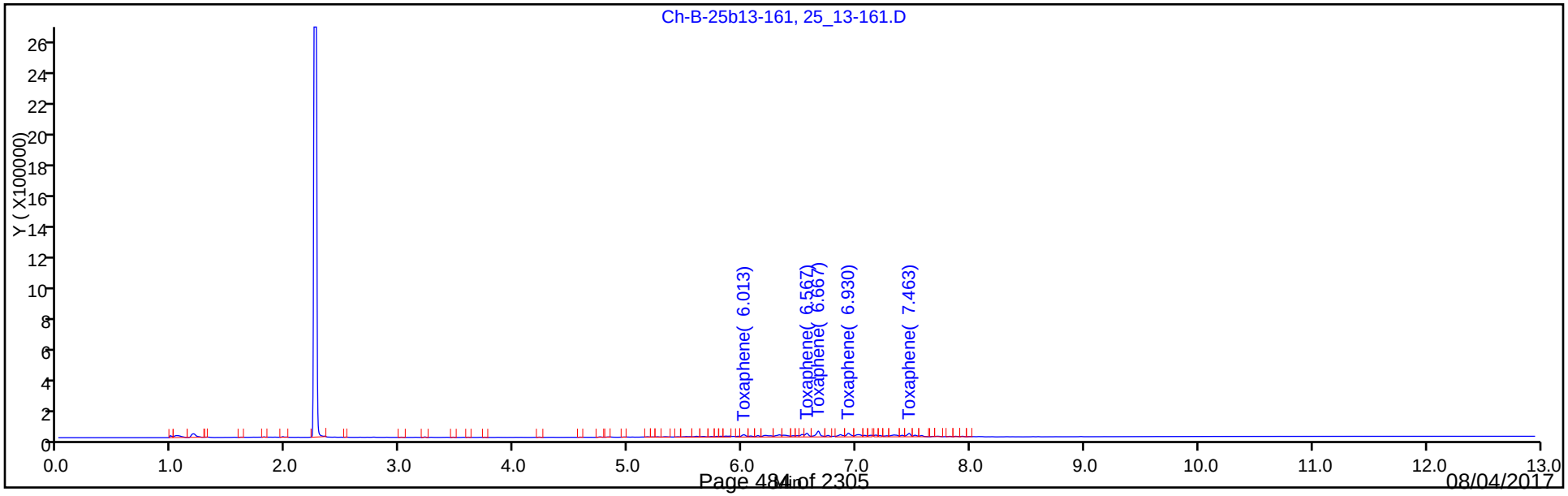
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date:	13-Apr-2017 15:17:42	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date: 13-Apr-2017 15:17:42 Instrument ID: HP6890-25

Lims ID: std4

Client ID:

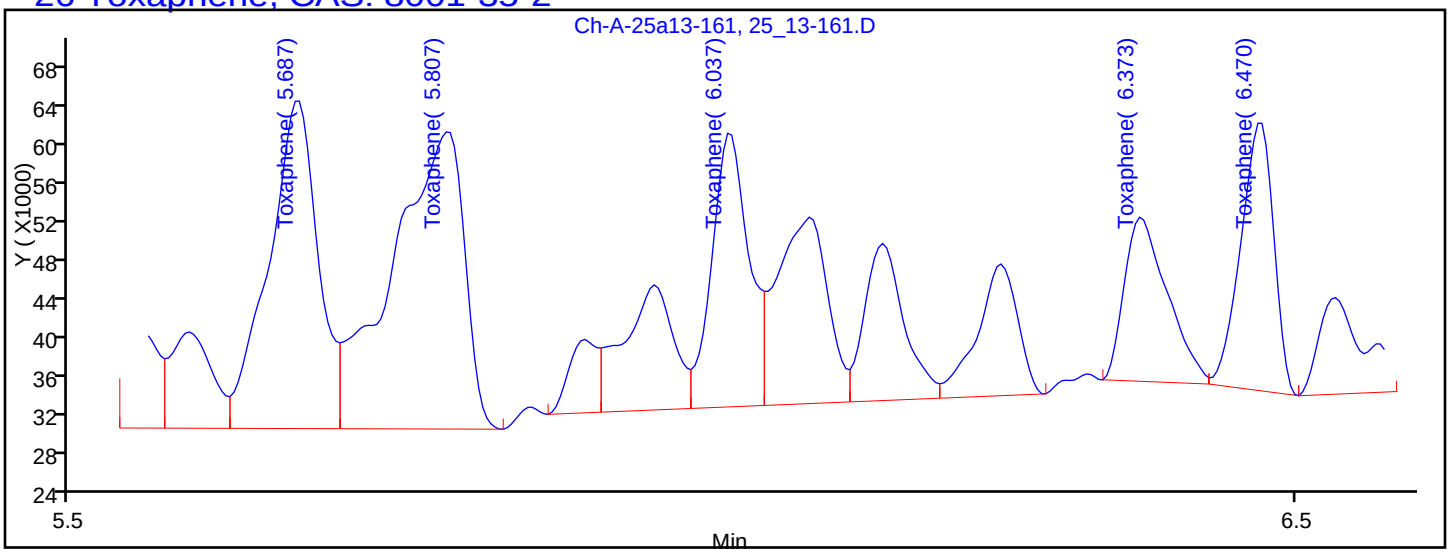
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

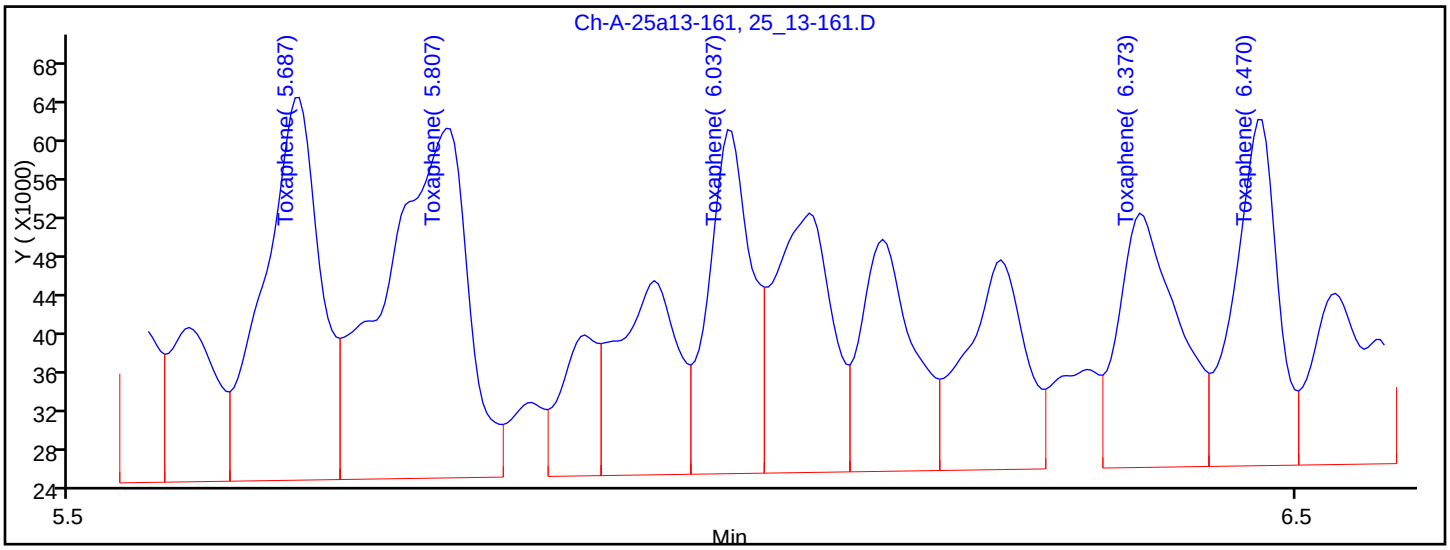
Column: Detector Ch-A-6A58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.687	Response = 93083
5.807	Response = 123347
6.037	Response = 58398
6.373	Response = 40627
6.470	Response = 50757



Manual Integration Results

5.687	Response = 124125	M
5.807	Response = 167303	M
6.037	Response = 84509	M
6.373	Response = 88103	M
6.470	Response = 86718	M

Reviewer: RudzG, 17-Apr-2017 12:07:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Apr-2017 15:37:24 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:34 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:09:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14249738	0.5000	0.5000	
2	2.257	2.253	0.004	10161889	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	62848	0.0500	0.0548	M
1	5.813	5.803	0.010	77888	0.0500	0.0534	M
1	6.040	6.033	0.007	42823	0.0500	0.0550	M
1	6.377	6.370	0.007	46515	0.0500	0.0567	M
1	6.473	6.460	0.013	43710	0.0500	0.0496	M
		Average of Peak Amounts =				0.0539	
2	6.017	6.013	0.004	18892	0.0500	0.0551	M
2	6.570	6.567	0.003	26211	0.0500	0.0551	M
2	6.670	6.663	0.007	49816	0.0500	0.0551	M
2	6.933	6.930	0.003	32225	0.0500	0.0540	M
2	7.467	7.460	0.007	24368	0.0500	0.0552	M
		Average of Peak Amounts =				0.0549	
						RPD = 1.81	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.05ng_00012	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

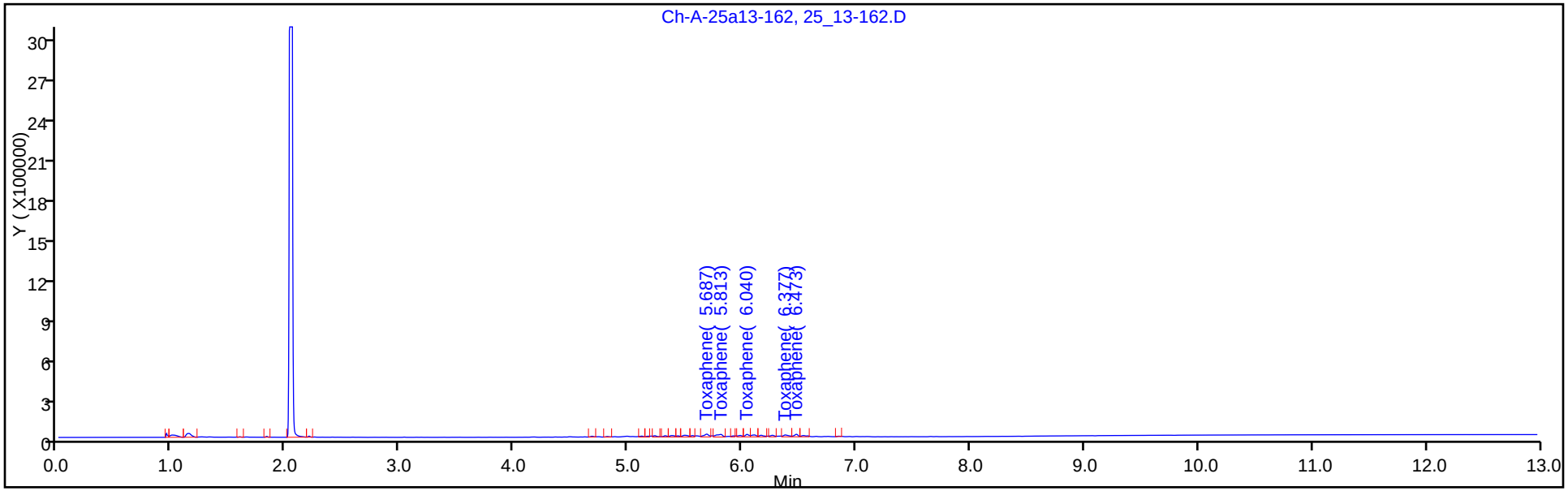
Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

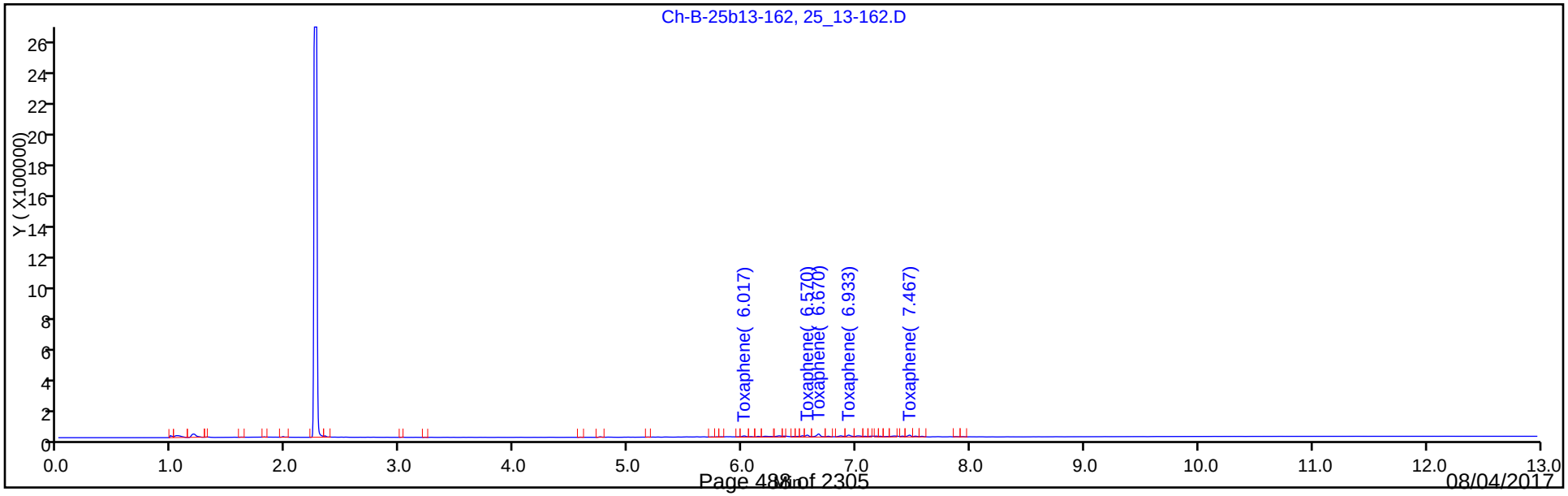
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date:	13-Apr-2017 15:37:24	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date: 13-Apr-2017 15:37:24 Instrument ID: HP6890-25

Lims ID: std5

Client ID:

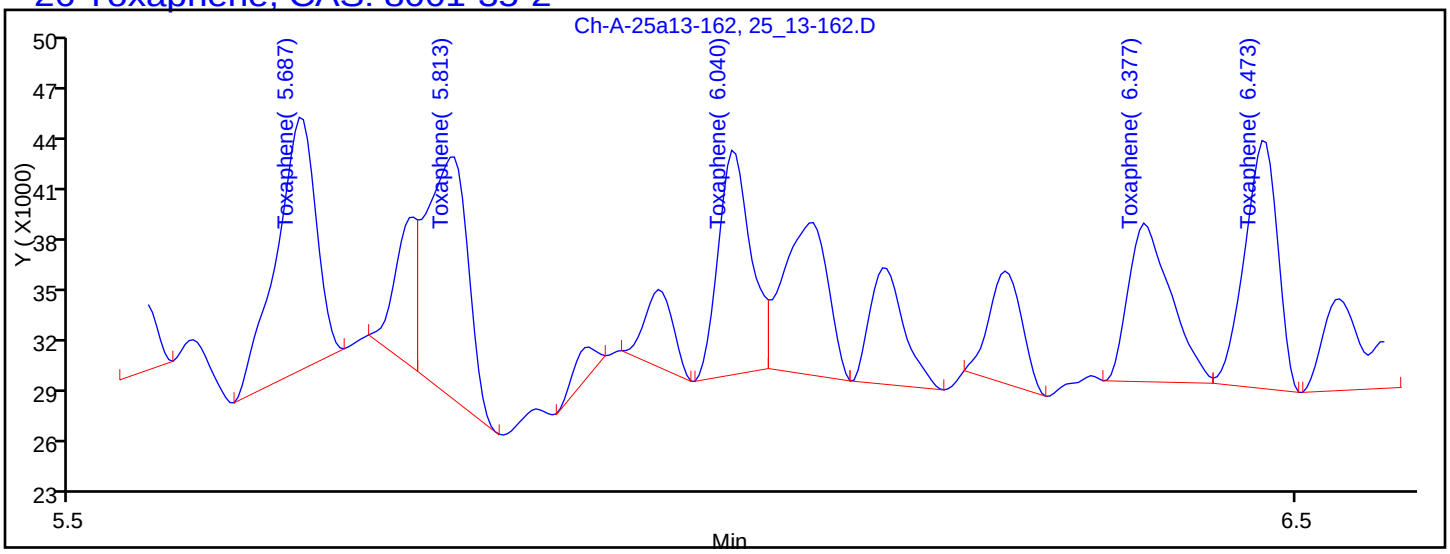
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

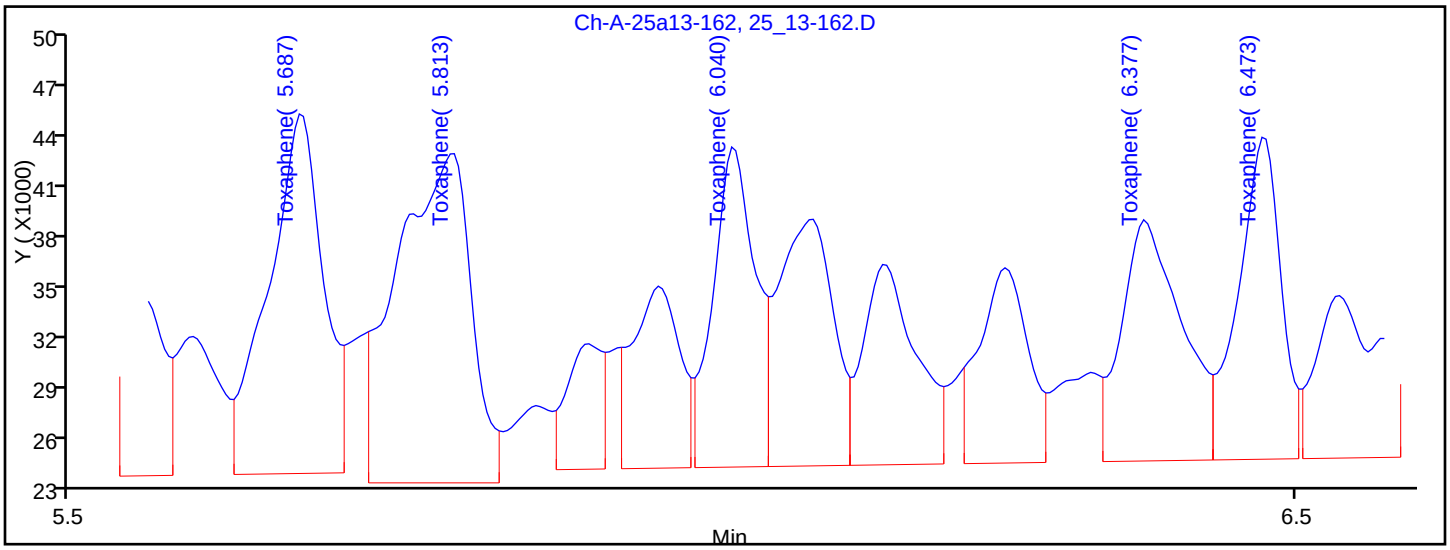
Column: Detector Ch-A-6A58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.687	Response = 32201
5.813	Response = 31335
6.040	Response = 23538
6.377	Response = 21646
6.473	Response = 26075



Manual Integration Results

5.687	Response = 62848	M
5.813	Response = 77888	M
6.040	Response = 42823	M
6.377	Response = 46515	M
6.473	Response = 43710	M

Reviewer: RudzG, 17-Apr-2017 12:07:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30350

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0186	0.0185	0.0177	0.0221	0.0214	Lin1	0	0.0213							0.9940		0.9900
Toxaphene Peak 2	0.0258	0.0253	0.0261	0.0304	0.0304	Lin1	0	0.0301							0.9970		0.9900
Toxaphene Peak 3	0.0490	0.0477	0.0516	0.0604	0.0582	Lin1	-0.001	0.0586							0.9970		0.9900
Toxaphene Peak 4	0.0317	0.0309	0.0319	0.0367	0.0355	Lin1	0	0.0357							0.9980		0.9900
Toxaphene Peak 5	0.0240	0.0236	0.0261	0.0306	0.0295	Lin1	0	0.0298							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 351826

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/13/2017 14:18 Calibration End Date: 04/13/2017 15:37 Calibration ID: 30350

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-351826/22	25_13-162.D
Level 2	STD4 480-351826/21	25_13-161.D
Level 3	STD3 480-351826/20	25_13-160.D
Level 4	STD2 480-351826/19	25_13-159.D
Level 5	STD1 480-351826/18	25_13-158.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Lin1	18892	37153	180262	421431	641482	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 2	BNB	Lin1	26211	50903	265822	578537	910515	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 3	BNB	Lin1	49816	96100	525251	1149320	1742088	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 4	BNB	Lin1	32225	62310	325526	699382	1061454	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 5	BNB	Lin1	24368	47592	265983	582401	883465	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 13-Apr-2017 14:18:52 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:24 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 13-Apr-2017 14:39:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.043	-0.003	14013213	0.5000	0.5000	
2	2.257	2.260	-0.003	9972056	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.683	5.680	0.003	2165815	1.50	1.50	
1	5.807	5.803	0.004	3007432	1.50	1.48	
1	6.037	6.033	0.004	1573764	1.50	1.46	
1	6.373	6.370	0.003	1722613	1.50	1.50	
1	6.470	6.460	0.010	1532368	1.50	1.41	
		Average of Peak Amounts =				1.47	
2	6.013	6.013	0.000	641482	1.50	1.52	M
2	6.567	6.567	0.000	910515	1.50	1.53	M
2	6.667	6.663	0.004	1742088	1.50	1.50	M
2	6.930	6.930	0.000	1061454	1.50	1.50	M
2	7.463	7.460	0.003	883465	1.50	1.50	M
		Average of Peak Amounts =				1.51	
						RPD = 2.94	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.5ng_00011	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

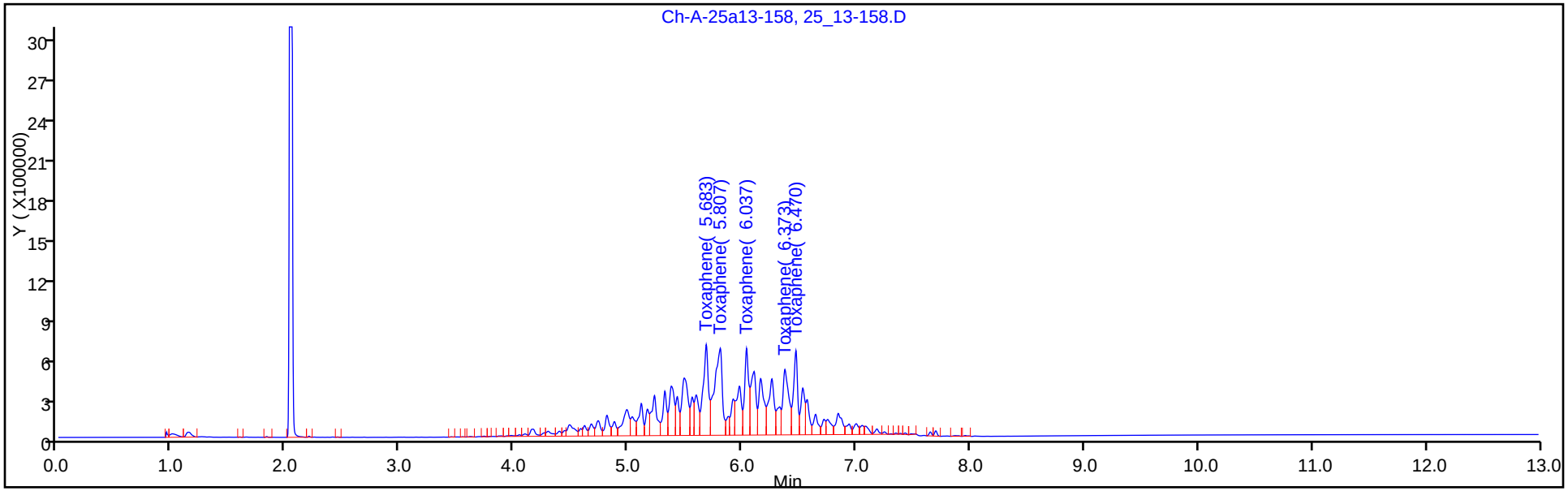
Report Date: 17-Apr-2017 13:19:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

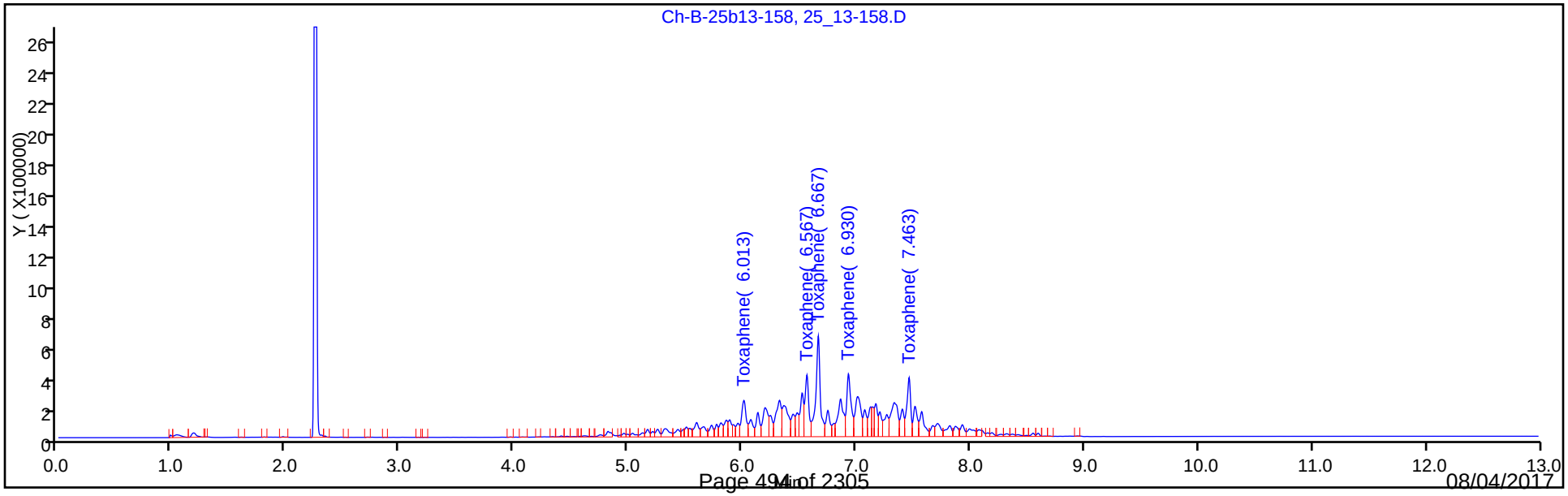
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D

Injection Date:	13-Apr-2017 14:18:52	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	18
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-158.D

Injection Date: 13-Apr-2017 14:18:52 Instrument ID: HP6890-25

Lims ID: std1

Client ID:

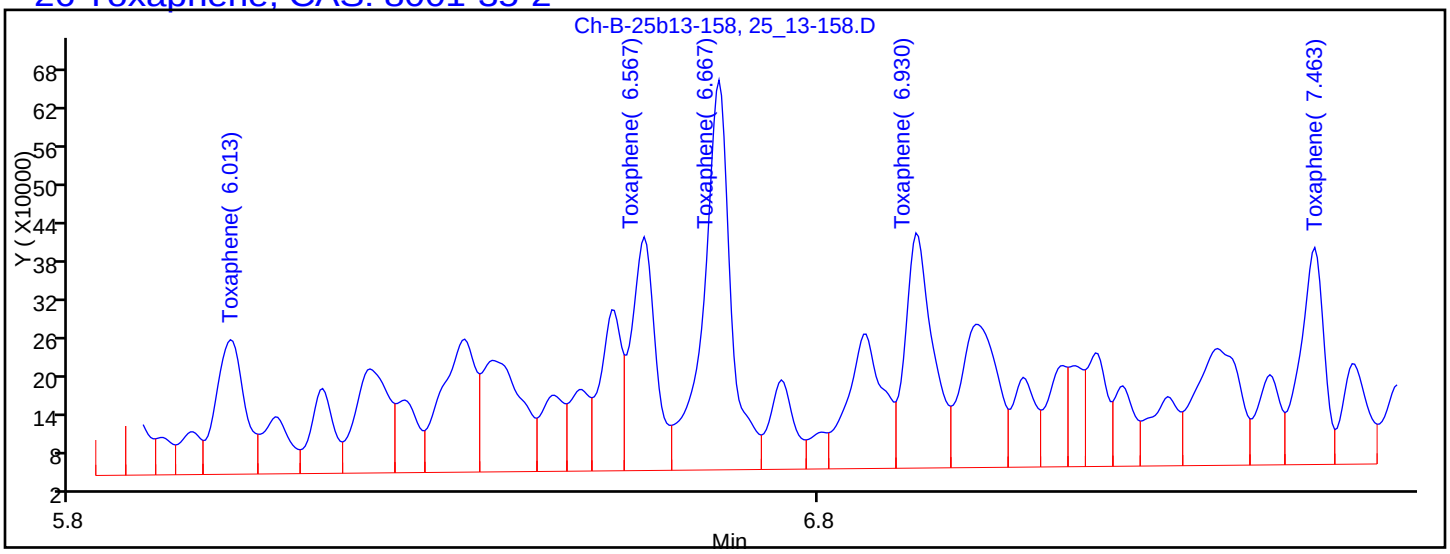
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

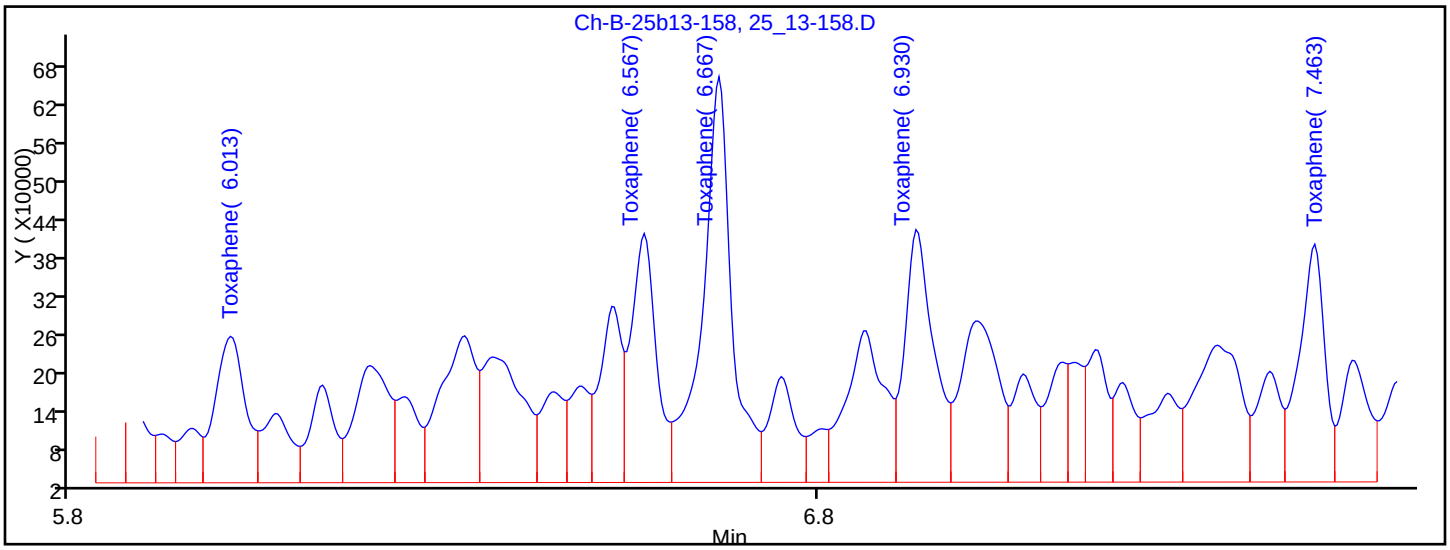
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.013	Response = 559970
6.567	Response = 819721
6.667	Response = 1563712
6.930	Response = 940747
7.463	Response = 753866



Manual Integration Results

6.013	Response = 641482	M
6.567	Response = 910515	M
6.667	Response = 1742088	M
6.930	Response = 1061454	M
7.463	Response = 883465	M

Reviewer: RudzG, 17-Apr-2017 11:59:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 13-Apr-2017 14:38:26 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:27 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 17-Apr-2017 07:13:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.037	2.043	-0.006	13396042	0.5000	0.5000	
2	2.253	2.260	-0.007	9516501	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	1464656	1.00	1.06	M
1	5.803	5.803	0.000	2071485	1.00	1.07	M
1	6.033	6.033	0.000	1120183	1.00	1.09	M
1	6.370	6.370	0.000	1157723	1.00	1.06	M
1	6.467	6.460	0.007	1064328	1.00	1.03	M
		Average of Peak Amounts =				1.06	
2	6.013	6.013	0.000	421431	1.00	1.05	M
2	6.563	6.567	-0.004	578537	1.00	1.02	M
2	6.663	6.663	0.000	1149320	1.00	1.04	M
2	6.930	6.930	0.000	699382	1.00	1.04	M
2	7.460	7.460	0.000	582401	1.00	1.04	M
		Average of Peak Amounts =				1.04	
						RPD = 2.04	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.0ng_00010	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

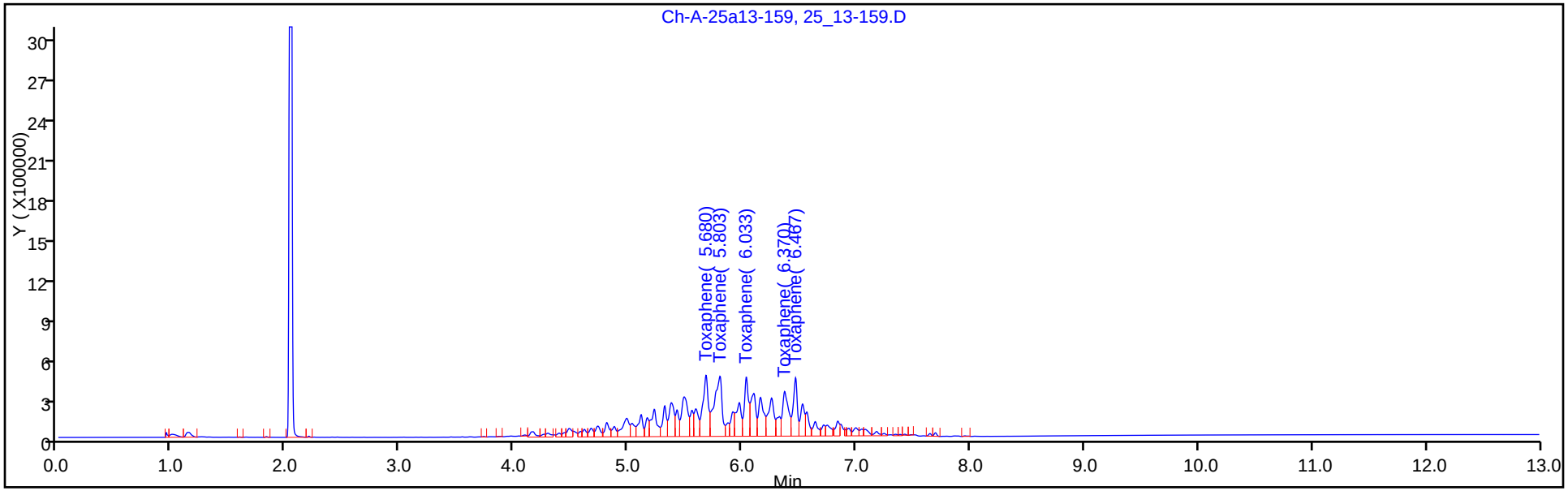
Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

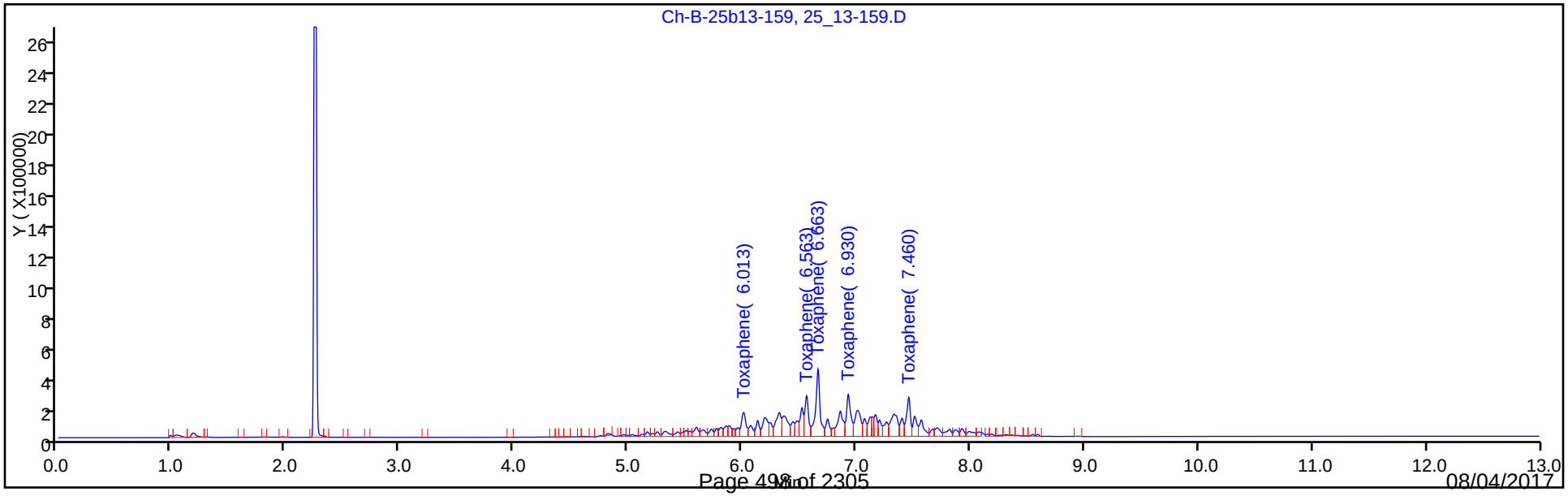
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date:	13-Apr-2017 14:38:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:27 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-159.D

Injection Date: 13-Apr-2017 14:38:26 Instrument ID: HP6890-25

Lims ID: std2

Client ID:

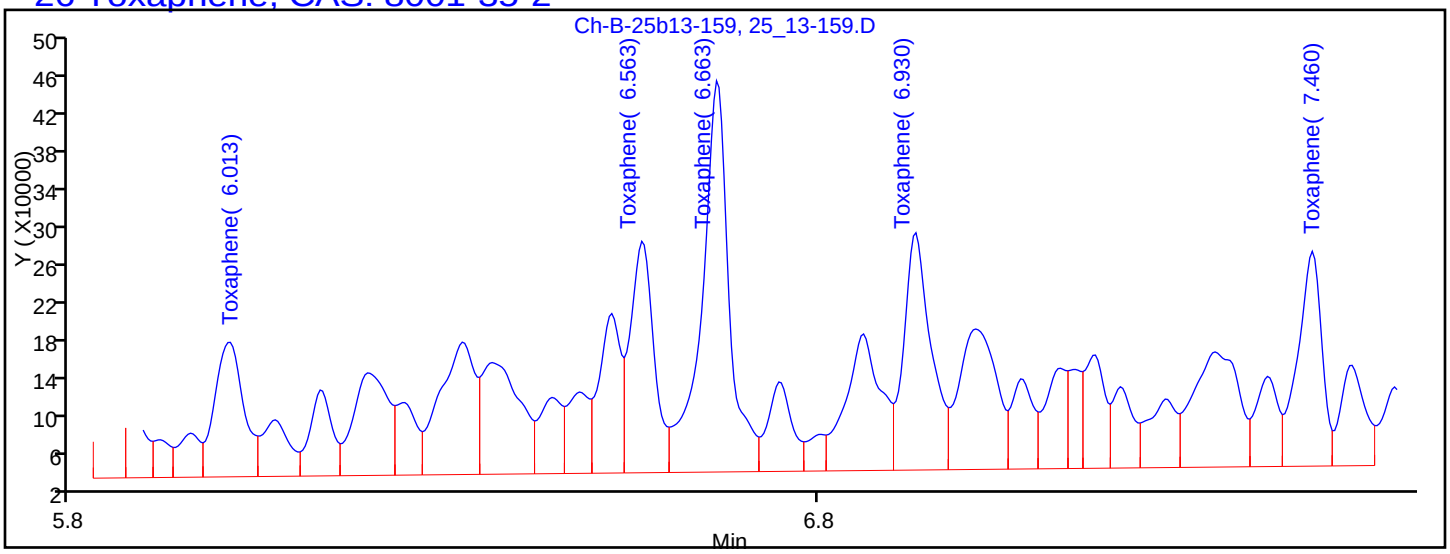
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

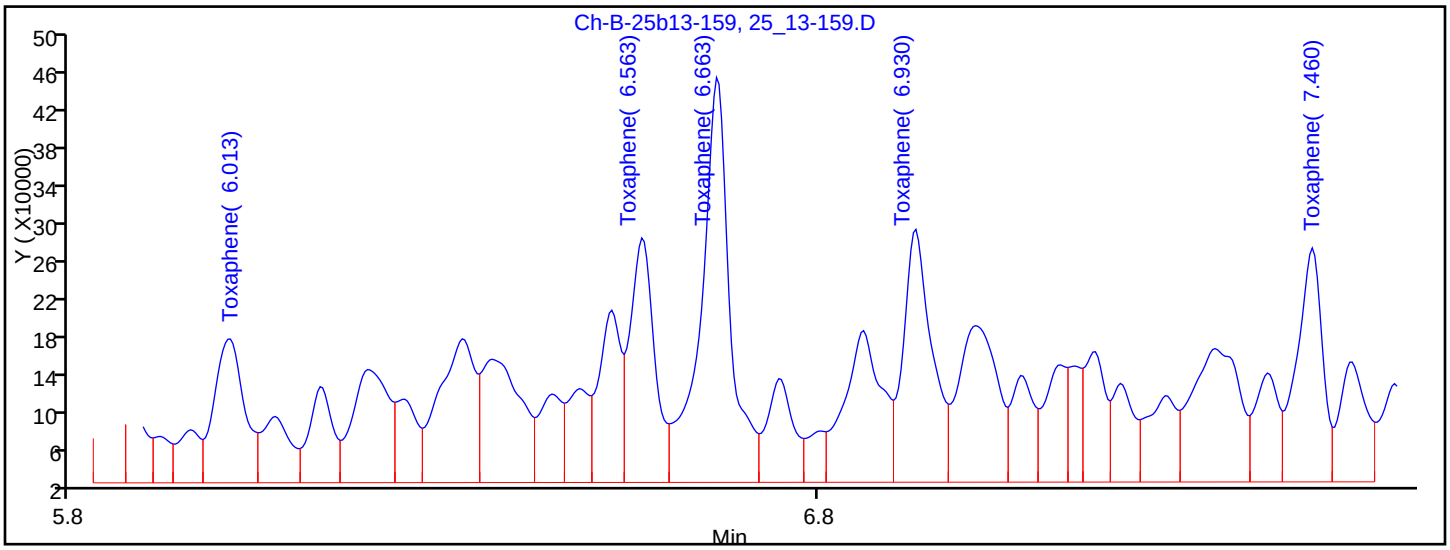
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.013	Response = 378704
6.563	Response = 529408
6.663	Response = 1046479
6.930	Response = 627928
7.460	Response = 502829



Manual Integration Results

6.013	Response = 421431	M
6.563	Response = 578537	M
6.663	Response = 1149320	M
6.930	Response = 699382	M
7.460	Response = 582401	M

Reviewer: RudzG, 17-Apr-2017 11:59:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 13-Apr-2017 14:58:10 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:29 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: RudzG Date: 17-Apr-2017 12:00:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.033	2.033	0.000	14315780	0.5000	0.5000	
2	2.253	2.253	0.000	10189120	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.680	5.680	0.000	631428	0.5000	0.4365	a
1	5.803	5.803	0.000	928600	0.5000	0.4572	a
1	6.033	6.033	0.000	487478	0.5000	0.4536	a
1	6.370	6.370	0.000	502091	0.5000	0.4405	a
1	6.460	6.460	0.000	635060	0.5000	0.5775	a
		Average of Peak Amounts =				0.4730	
2	6.013	6.013	0.000	180262	0.5000	0.4265	M
2	6.567	6.567	0.000	265822	0.5000	0.4459	M
2	6.663	6.663	0.000	525251	0.5000	0.4530	M
2	6.930	6.930	0.000	325526	0.5000	0.4575	M
2	7.460	7.460	0.000	265983	0.5000	0.4536	M
		Average of Peak Amounts =				0.4473	
						RPD = 5.60	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00098	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

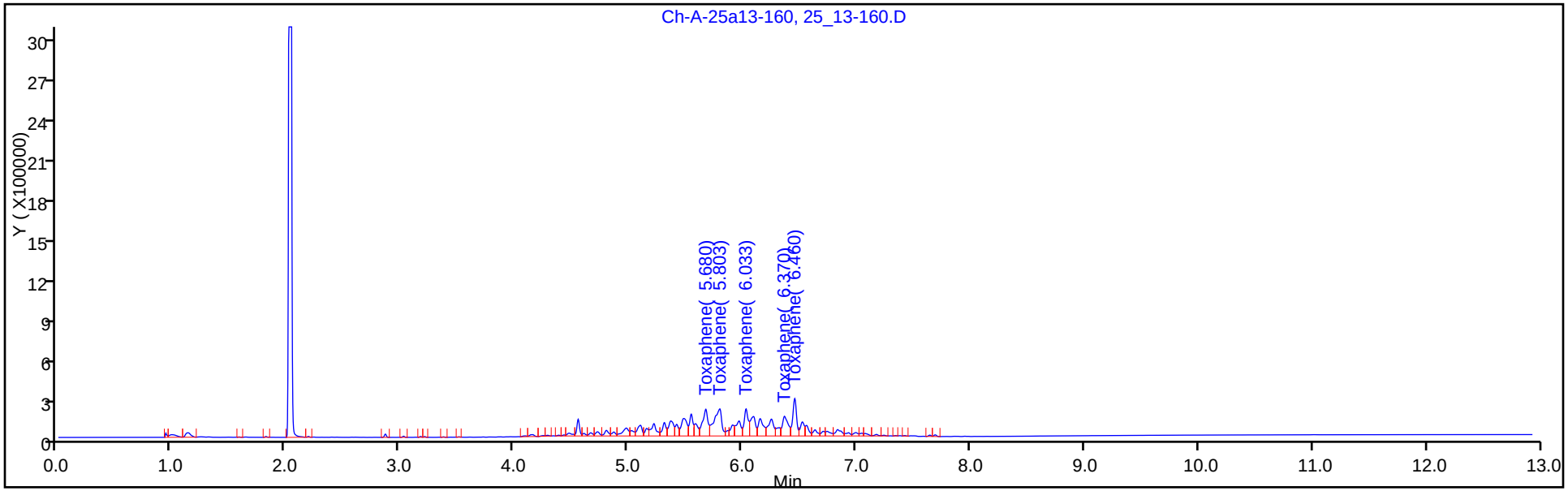
Report Date: 17-Apr-2017 13:19:30 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

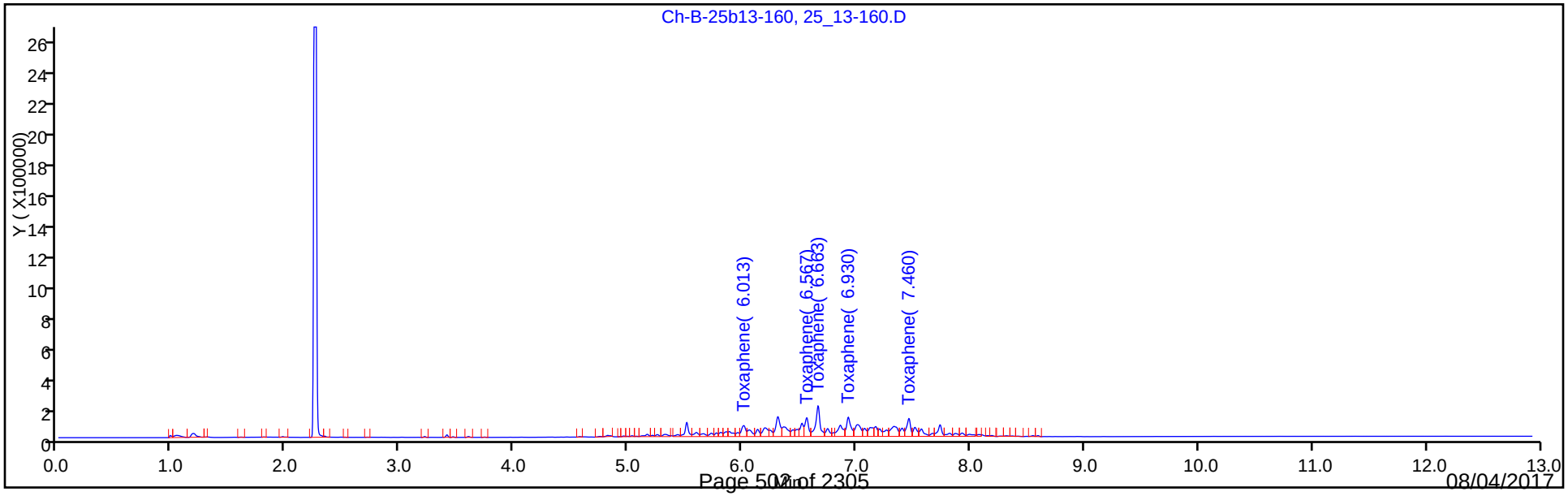
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D

Injection Date:	13-Apr-2017 14:58:10	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:30 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-160.D

Injection Date: 13-Apr-2017 14:58:10 Instrument ID: HP6890-25

Lims ID: std3

Client ID:

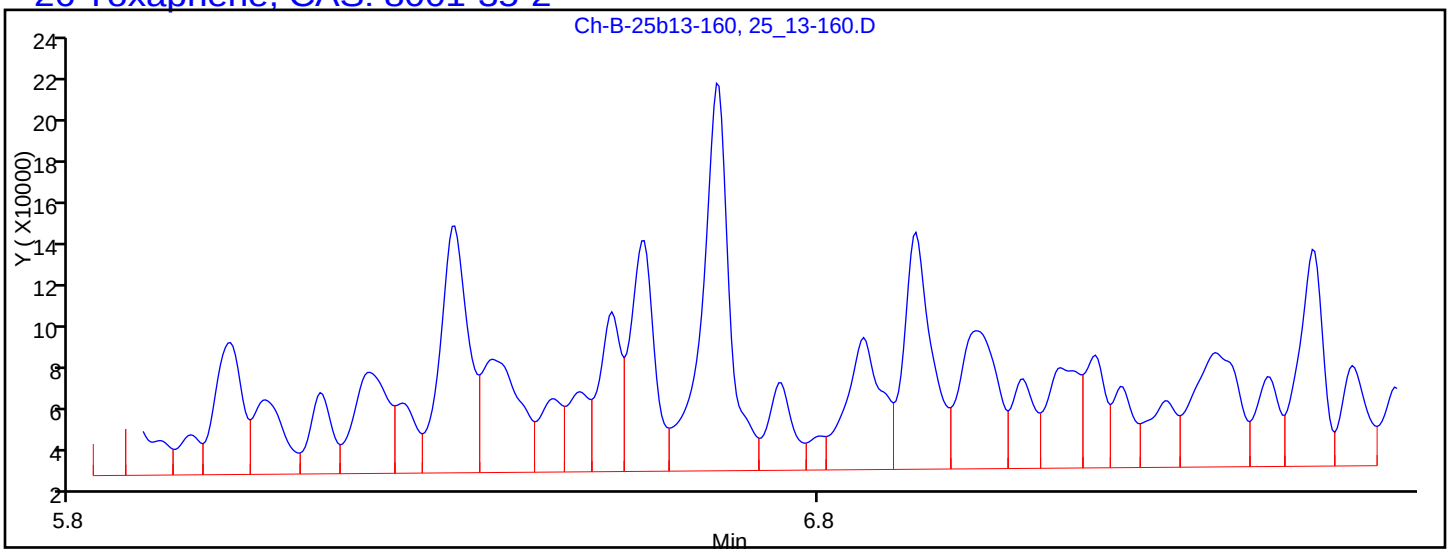
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

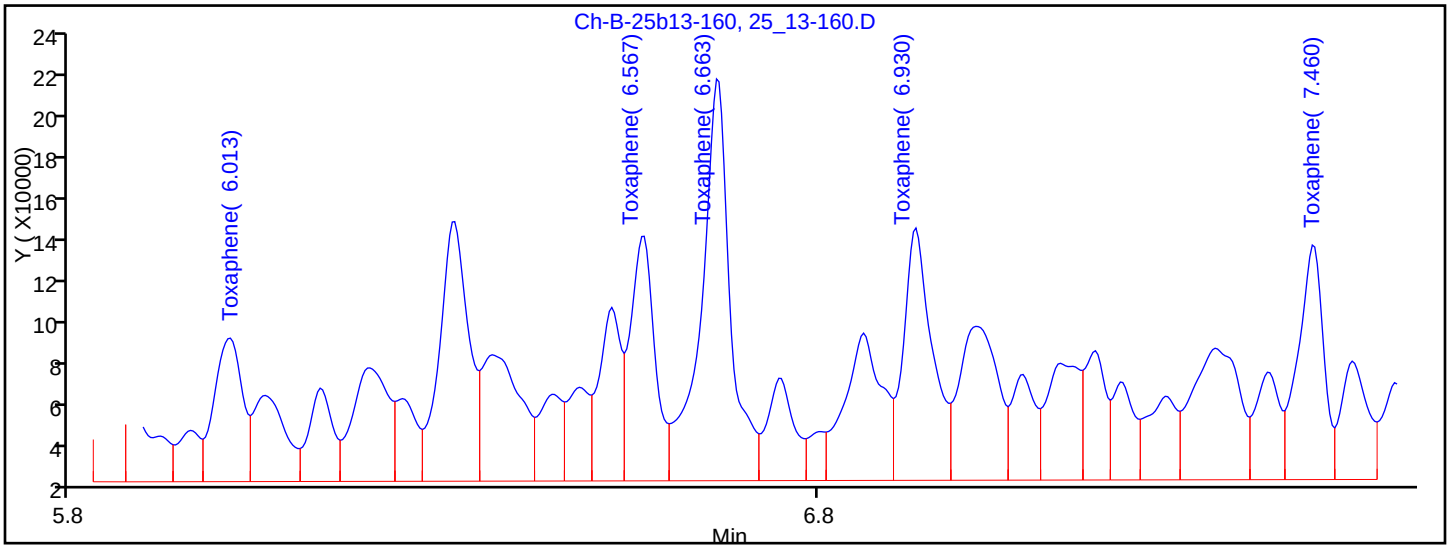
Method: IS-8081 Limit Group: GC - 8081B IS ICAL

Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results



Manual Integration Results

6.013	Response = 180262	M
6.567	Response = 265822	M
6.663	Response = 525251	M
6.930	Response = 325526	M
7.460	Response = 265983	M

Reviewer: RudzG, 17-Apr-2017 12:07:02

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 13-Apr-2017 15:17:42 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:31 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:53:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14153249	0.5000	0.5000	
2	2.253	2.253	0.000	10068508	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	124125	0.1000	0.0968	M
1	5.807	5.803	0.004	167303	0.1000	0.0966	M
1	6.037	6.033	0.004	84509	0.1000	0.0931	M
1	6.373	6.370	0.003	88103	0.1000	0.0924	M
1	6.470	6.460	0.010	86718	0.1000	0.0887	M
		Average of Peak Amounts =				0.0935	
2	6.013	6.013	0.000	37153	0.1000	0.0981	M
2	6.567	6.567	0.000	50903	0.1000	0.0963	M
2	6.667	6.663	0.004	96100	0.1000	0.0947	M
2	6.930	6.930	0.000	62310	0.1000	0.0963	M
2	7.463	7.460	0.003	47592	0.1000	0.0943	M
		Average of Peak Amounts =				0.0959	
						RPD = 2.54	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.1ng_00013	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added:	10.00	Units: uL	Run Reagent

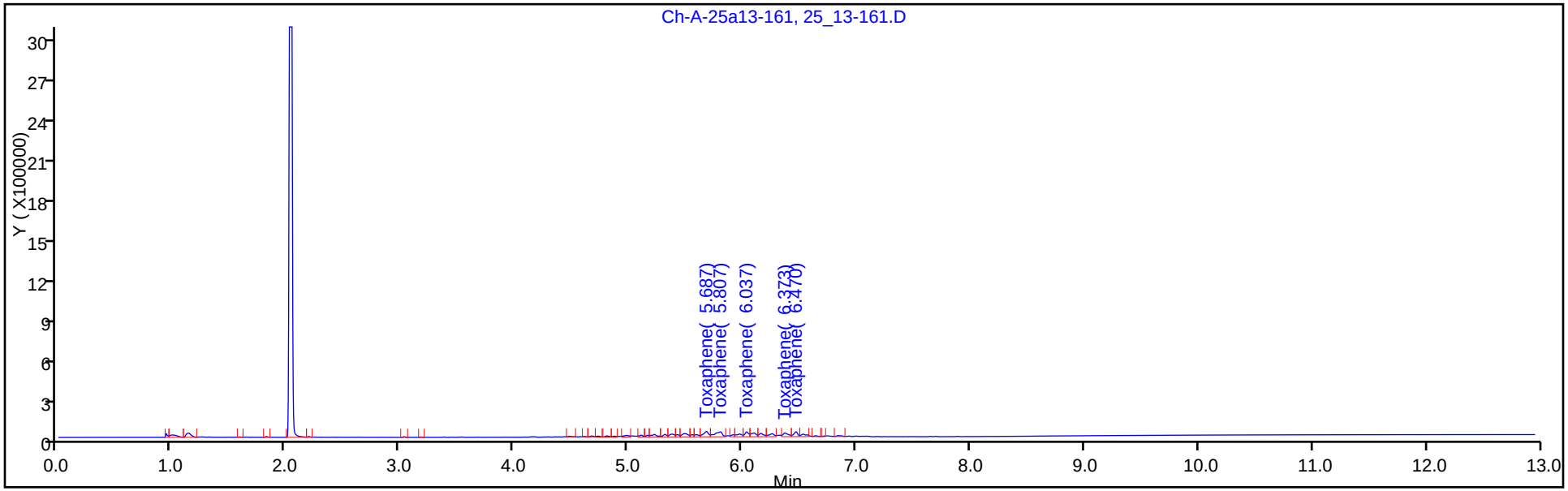
Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

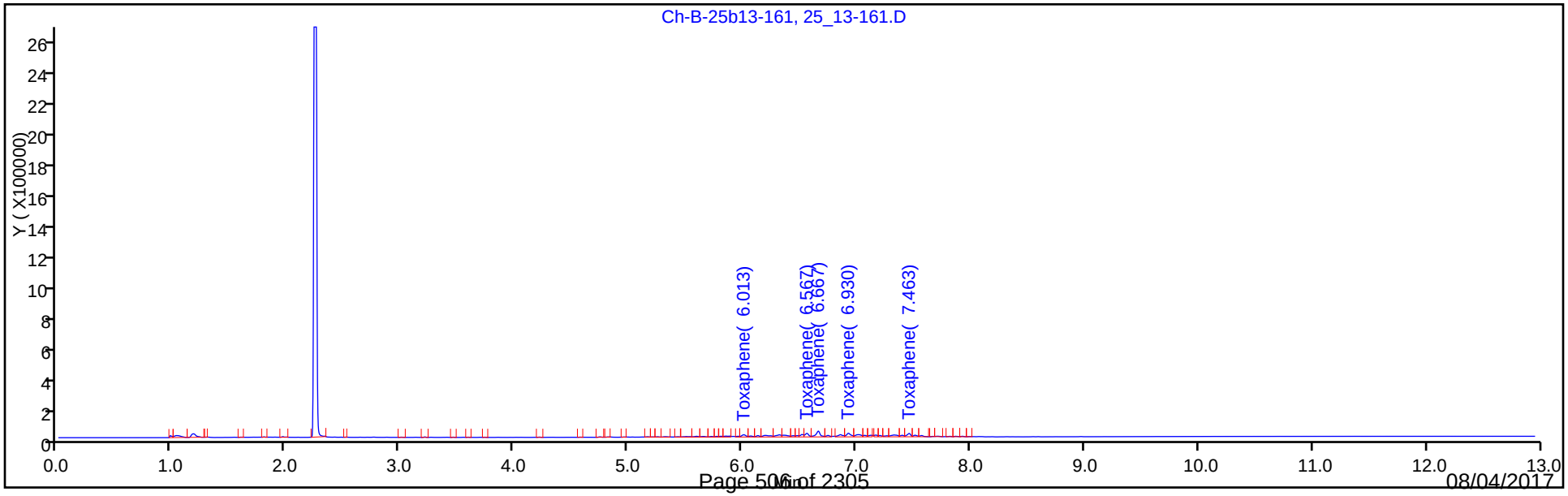
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date:	13-Apr-2017 15:17:42	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:32 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-161.D

Injection Date: 13-Apr-2017 15:17:42 Instrument ID: HP6890-25

Lims ID: std4

Client ID:

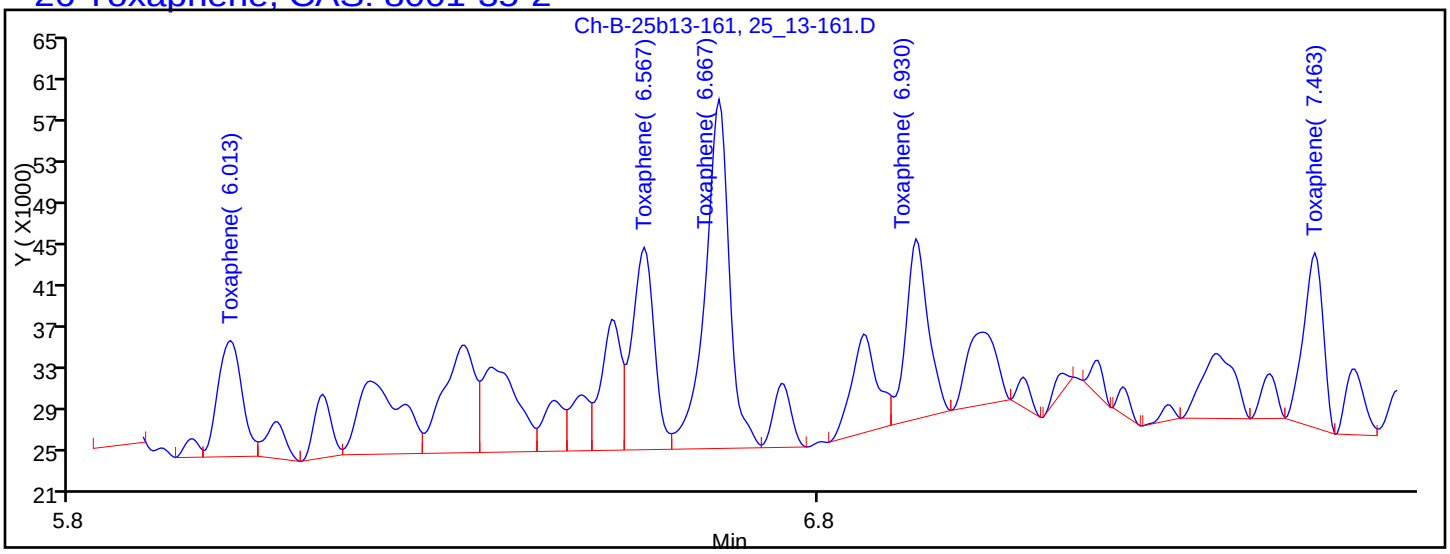
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

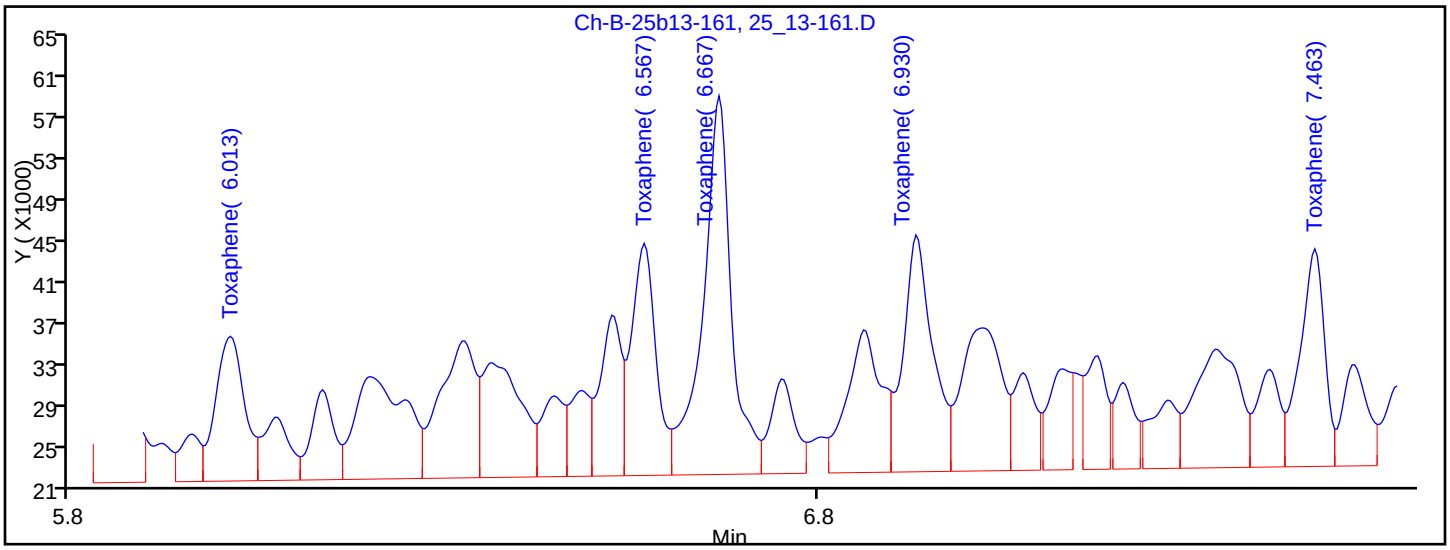
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.013	Response = 24943
6.567	Response = 39859
6.667	Response = 75018
6.930	Response = 35511
7.463	Response = 30418



Manual Integration Results

6.013	Response = 37153	M
6.567	Response = 50903	M
6.667	Response = 96100	M
6.930	Response = 62310	M
7.463	Response = 47592	M

Reviewer: RudzG, 17-Apr-2017 12:07:35

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 13-Apr-2017 15:37:24 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 17-Apr-2017 13:19:34 Calib Date: 13-Apr-2017 17:35:17
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-168.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: salversonj Date: 14-Apr-2017 14:09:28

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.040	2.033	0.007	14249738	0.5000	0.5000	
2	2.257	2.253	0.004	10161889	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.687	5.680	0.007	62848	0.0500	0.0548	M
1	5.813	5.803	0.010	77888	0.0500	0.0534	M
1	6.040	6.033	0.007	42823	0.0500	0.0550	M
1	6.377	6.370	0.007	46515	0.0500	0.0567	M
1	6.473	6.460	0.013	43710	0.0500	0.0496	M
		Average of Peak Amounts =				0.0539	
2	6.017	6.013	0.004	18892	0.0500	0.0551	M
2	6.570	6.567	0.003	26211	0.0500	0.0551	M
2	6.670	6.663	0.007	49816	0.0500	0.0551	M
2	6.933	6.930	0.003	32225	0.0500	0.0540	M
2	7.467	7.460	0.007	24368	0.0500	0.0552	M
		Average of Peak Amounts =				0.0549	
						RPD = 1.81	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.05ng_00012	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00006	Amount Added: 10.00	Units: uL	Run Reagent

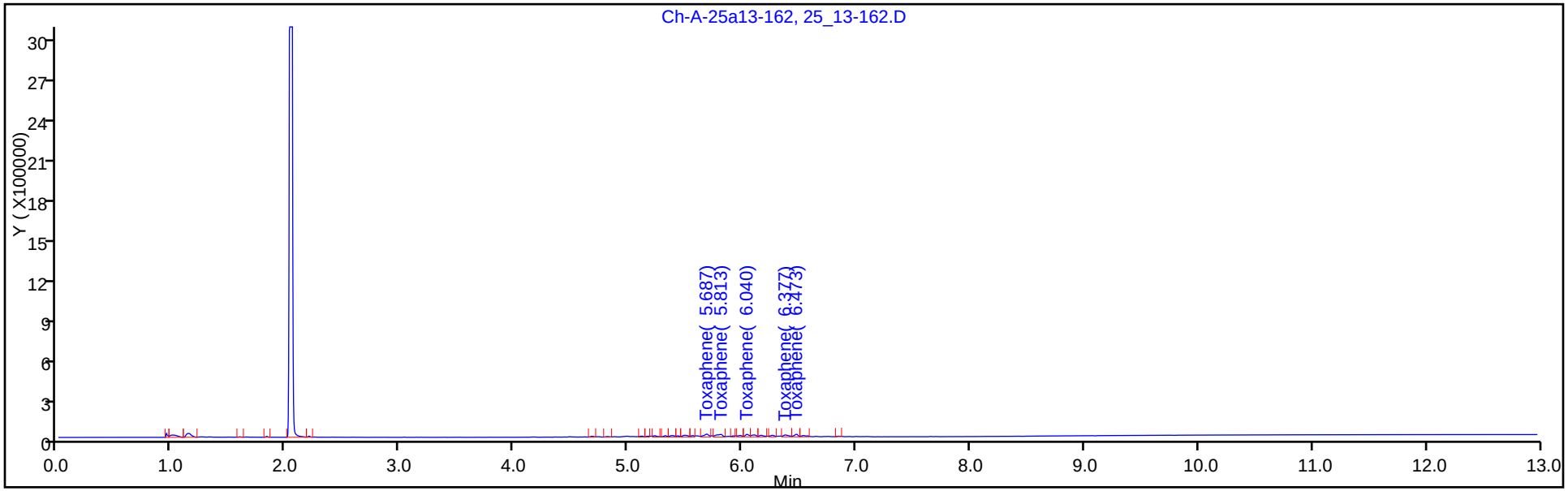
Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

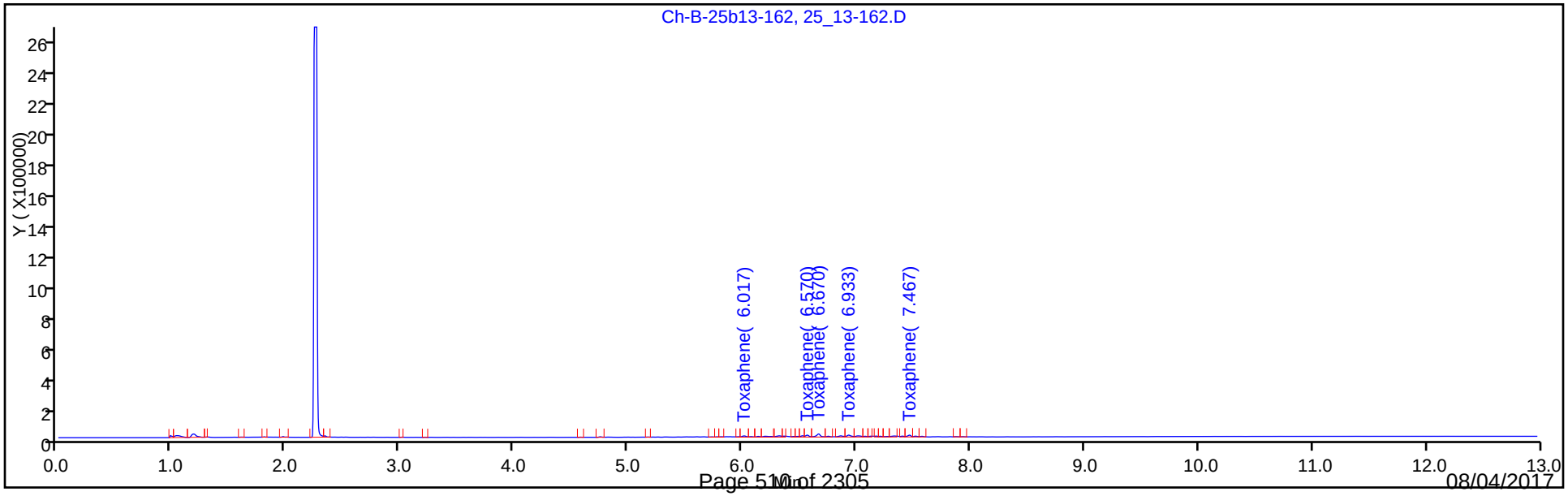
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date:	13-Apr-2017 15:37:24	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 17-Apr-2017 13:19:34 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170413-61643.b\25_13-162.D

Injection Date: 13-Apr-2017 15:37:24 Instrument ID: HP6890-25

Lims ID: std5

Client ID:

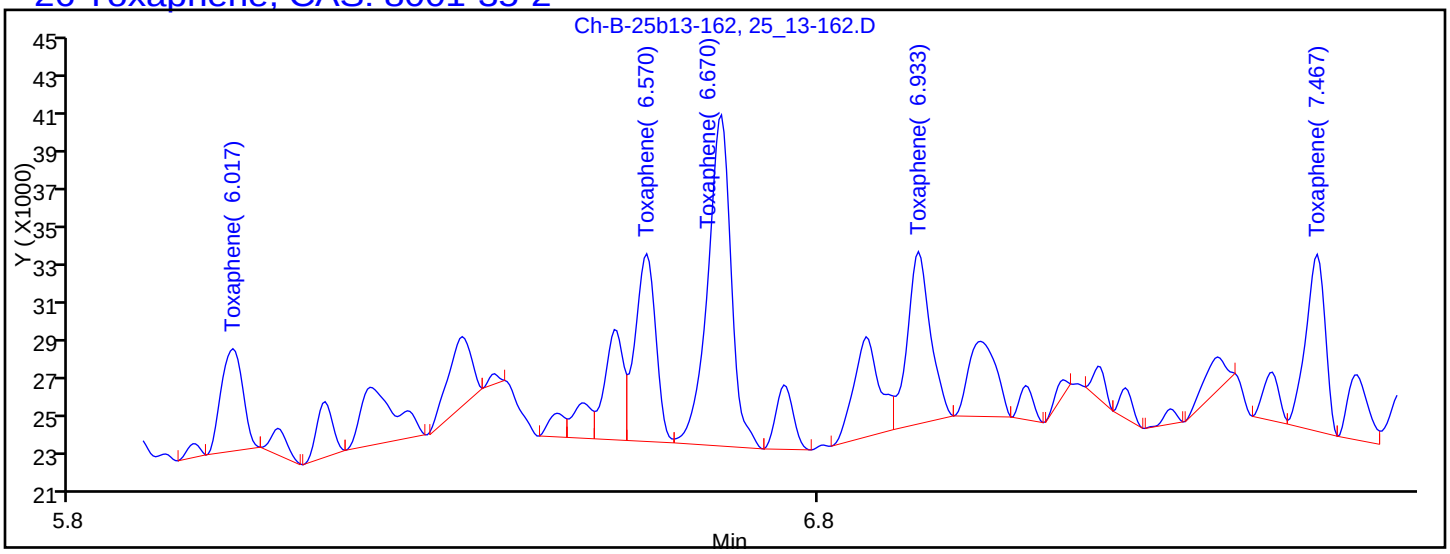
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 22

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

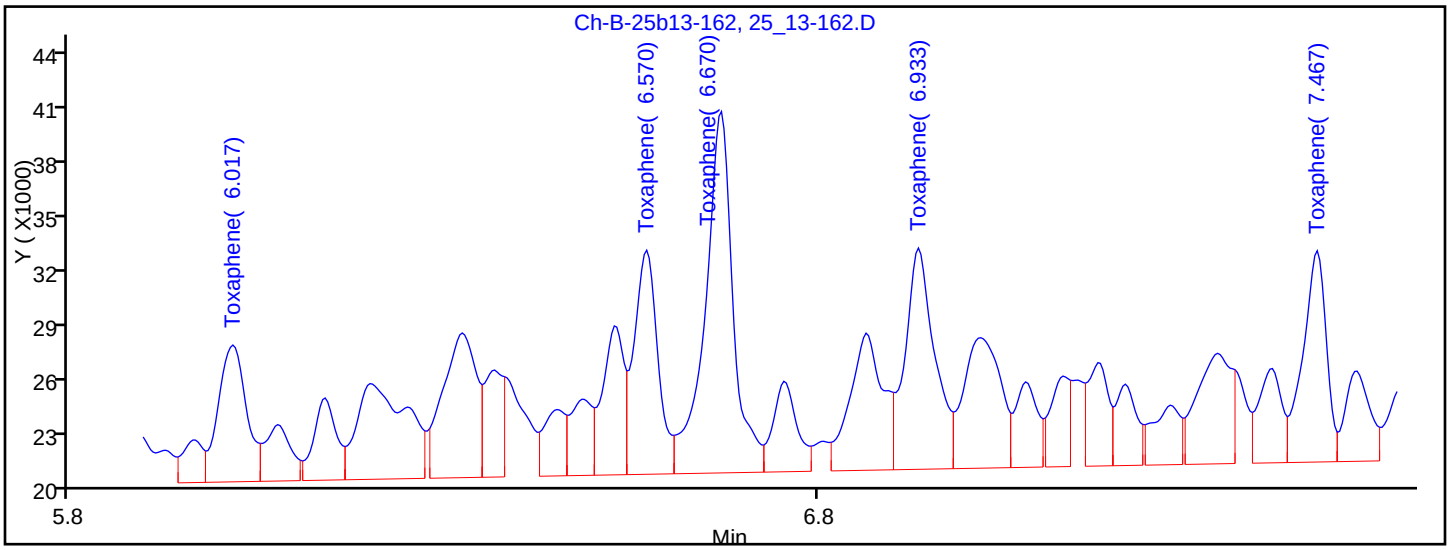
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.017	Response = 10878
6.570	Response = 18940
6.670	Response = 38120
6.933	Response = 19520
7.467	Response = 16834



Manual Integration Results

6.017	Response = 18892	M
6.570	Response = 26211	M
6.670	Response = 49816	M
6.933	Response = 32225	M
7.467	Response = 24368	M

Reviewer: RudzG, 17-Apr-2017 12:08:08

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.8055	1.9721	2.2459	2.1378	2.0712	Lin1	-0.001	2.1331							0.9990		0.9900
gamma-BHC (Lindane)	1.6127	1.7516	1.9899	1.8968	1.8438	Lin1	-0.001	1.8952							0.9990		0.9900
beta-BHC	0.6749	0.6734	0.7540	0.7351	0.7411	Lin1	0	0.7450							1.0000		0.9900
delta-BHC	1.4909	1.6738	1.9572	1.8819	1.8485	Lin1	-0.002	1.8944							0.9990		0.9900
Heptachlor	1.5636	1.6764	1.7972	1.6499	1.5694	Lin1	0.0003	1.6292							0.9970		0.9900
Aldrin	1.5152	1.6416	1.8185	1.6974	1.6259	Lin1	0	1.6836							0.9980		0.9900
Heptachlor epoxide	1.4202	1.4947	1.5595	1.4299	1.3639	Lin1	0.0006	1.4108							0.9970		0.9900
gamma-Chlordane	1.5211	1.5529	1.7430	1.6732	1.6218	Lin1	-0.001	1.6632							0.9990		0.9900
alpha-Chlordane	1.3789	1.4503	1.6437	1.5745	1.5312	Lin1	-0.001	1.5708							0.9990		0.9900
4,4'-DDE	1.2437	1.3744	1.6259	1.5522	1.5057	Lin1	-0.001	1.5530							0.9990		0.9900
Endosulfan I	1.2374	1.3497	1.4098	1.3001	1.2460	Lin1	0.0003	1.2874							0.9970		0.9900
Dieldrin	1.3440	1.4242	1.5710	1.4662	1.4172	Lin1	0	1.4599							0.9980		0.9900
Endrin	1.3538	1.4268	1.5203	1.3955	1.3266	Lin1	0.0004	1.3761							0.9970		0.9900
4,4'-DDD	0.9879	1.1105	1.3190	1.2628	1.2199	Lin1	-0.001	1.2613							0.9990		0.9900
Endosulfan II	1.1110	1.2567	1.3370	1.2409	1.1859	Lin1	0	1.2290							0.9970		0.9900
4,4'-DDT	1.0149	1.1367	1.3964	1.3520	1.3161	Lin1	-0.002	1.3565							0.9990		0.9900
Endrin aldehyde	0.9837	1.0167	1.0622	1.0010	0.9571	Lin1	0.0003	0.9857							0.9980		0.9900
Methoxychlor	0.5061	0.5509	0.6091	0.5821	0.5656	Lin1	0	0.5805							0.9990		0.9900
Endosulfan sulfate	1.0626	1.1139	1.1823	1.1226	1.0700	Lin1	0.0001	1.1044							0.9980		0.9900
Endrin ketone	1.2021	1.2855	1.3860	1.3014	1.2454	Lin1	0	1.2867							0.9980		0.9900
Tetrachloro-m-xylene	0.8353	0.8268	0.9631	0.9461	0.9974	Lin1	-0.001	0.9843							0.9990		0.9900
DCB Decachlorobiphenyl	1.0274	1.0231	1.0650	1.0243	0.9988	Lin1	0.0002	1.0158							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Lin1	267537	568795	3213244	6238209	8712119	0.00500	0.0100	0.0500	0.100	0.150
gamma-BHC (Lindane)	BNB	Lin1	238975	505210	2847000	5534975	7755592	0.00500	0.0100	0.0500	0.100	0.150
beta-BHC	BNB	Lin1	100012	194226	1078766	2145019	3117547	0.00500	0.0100	0.0500	0.100	0.150
delta-BHC	BNB	Lin1	220922	482768	2800164	5491533	7775718	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor	BNB	Lin1	231699	483523	2571235	4814374	6601656	0.00500	0.0100	0.0500	0.100	0.150
Aldrin	BNB	Lin1	224528	473477	2601768	4953087	6839396	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor epoxide	BNB	Lin1	210453	431108	2231095	4172576	5736978	0.00500	0.0100	0.0500	0.100	0.150
gamma-Chlordane	BNB	Lin1	225398	447907	2493727	4882487	6821947	0.00500	0.0100	0.0500	0.100	0.150
alpha-Chlordane	BNB	Lin1	204326	418316	2351663	4594368	6440908	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDE	BNB	Lin1	184289	396422	2326143	4529294	6333464	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan I	BNB	Lin1	183357	389280	2017014	3793793	5241380	0.00500	0.0100	0.0500	0.100	0.150
Dieldrin	BNB	Lin1	199150	410766	2247573	4278445	5961510	0.00500	0.0100	0.0500	0.100	0.150
Endrin	BNB	Lin1	200604	411532	2175102	4072224	5580089	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDD	BNB	Lin1	146389	320289	1887017	3684876	5131521	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan II	BNB	Lin1	164627	362479	1912808	3620892	4988199	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDT	BNB	Lin1	150384	327862	1997848	3945220	5535921	0.00500	0.0100	0.0500	0.100	0.150
Endrin aldehyde	BNB	Lin1	145766	293235	1519646	2920853	4025863	0.00500	0.0100	0.0500	0.100	0.150
Methoxychlor	BNB	Lin1	74988	158894	871432	1698697	2379153	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan sulfate	BNB	Lin1	157455	321289	1691547	3275755	4501001	0.00500	0.0100	0.0500	0.100	0.150
Endrin ketone	BNB	Lin1	178126	370765	1982962	3797484	5238606	0.00500	0.0100	0.0500	0.100	0.150
Tetrachloro-m-xylene	BNB	Lin1	123780	238484	1377925	2760769	4195356	0.00500	0.0100	0.0500	0.100	0.150
DCB Decachlorobiphenyl	BNB	Lin1	152247	295097	1523655	2988955	4201416	0.00500	0.0100	0.0500	0.100	0.150

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jul-2017 11:23:55 ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:06 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14021348	0.5000	0.5000	
2	2.200	2.190	0.010	10118948	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.527	2.520	0.007	4195356	0.1500	0.1531	
2	2.913	2.900	0.013	3794119	0.1500	0.1468	
						RPD = 4.16	
6 alpha-BHC							
1	2.950	2.943	0.007	8712119	0.1500	0.1462	
2	3.460	3.447	0.013	6086395	0.1500	0.1465	
						RPD = 0.16	
7 gamma-BHC (Lindane)							
1	3.207	3.197	0.010	7755592	0.1500	0.1465	
2	3.810	3.793	0.017	5265318	0.1500	0.1479	
						RPD = 0.95	
8 beta-BHC							
1	3.277	3.267	0.010	3117547	0.1500	0.1498	
2	3.880	3.863	0.017	2230068	0.1500	0.1483	
						RPD = 1.04	
9 delta-BHC							
1	3.430	3.420	0.010	7775718	0.1500	0.1473	
2	4.190	4.177	0.013	5410855	0.1500	0.1476	
						RPD = 0.16	
11 Heptachlor							
1	3.617	3.607	0.010	6601656	0.1500	0.1443	
2	4.277	4.260	0.017	4760376	0.1500	0.1455	
						RPD = 0.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.893	3.887	0.006	6839396	0.1500	0.1451	
2	4.627	4.610	0.017	4750207	0.1500	0.1462	
						RPD = 0.77	
14 Heptachlor epoxide							
1	4.490	4.480	0.010	5736978	0.1500	0.1446	
2	5.230	5.213	0.017	3928434	0.1500	0.1463	
						RPD = 1.21	
16 gamma-Chlordane							
1	4.613	4.607	0.006	6821947	0.1500	0.1466	
2	5.427	5.413	0.014	4385102	0.1500	0.1472	
						RPD = 0.36	
17 alpha-Chlordane							
1	4.750	4.740	0.010	6440908	0.1500	0.1467	
2	5.580	5.567	0.013	3999723	0.1500	0.1492	
						RPD = 1.63	
18 4,4'-DDE							
1	4.833	4.823	0.010	6333464	0.1500	0.1463	
2	5.740	5.727	0.013	4109303	0.1500	0.1470	
						RPD = 0.50	
19 Endosulfan I							
1	4.887	4.877	0.010	5241380	0.1500	0.1449	
2	5.647	5.633	0.014	3507119	0.1500	0.1460	
						RPD = 0.75	
21 Dieldrin							
1	5.133	5.123	0.010	5961510	0.1500	0.1458	
2	5.933	5.920	0.013	4103709	0.1500	0.1463	
						RPD = 0.33	
23 Endrin							
1	5.370	5.360	0.010	5580089	0.1500	0.1443	
2	6.253	6.240	0.013	3776963	0.1500	0.1463	
						RPD = 1.41	
24 4,4'-DDD							
1	5.447	5.440	0.007	5131521	0.1500	0.1460	
2	6.347	6.333	0.014	3220941	0.1500	0.1478	
						RPD = 1.21	
27 Endosulfan II							
1	5.600	5.590	0.010	4988199	0.1500	0.1448	
2	6.470	6.457	0.013	3286959	0.1500	0.1466	
						RPD = 1.25	
28 4,4'-DDT							
1	5.737	5.730	0.007	5535921	0.1500	0.1468	
2	6.670	6.657	0.013	3287650	0.1500	0.1487	
						RPD = 1.31	
29 Endrin aldehyde							
1	6.033	6.023	0.010	4025863	0.1500	0.1454	
2	6.817	6.803	0.014	2532436	0.1500	0.1468	
						RPD = 0.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.247	6.240	0.007	2379153	0.1500	0.1466	
2	7.357	7.347	0.010	1470298	0.1500	0.1497	
						RPD = 2.08	
32 Endosulfan sulfate							
1	6.480	6.470	0.010	4501001	0.1500	0.1452	
2	7.100	7.087	0.013	2882717	0.1500	0.1473	
						RPD = 1.38	
33 Endrin ketone							
1	6.763	6.757	0.006	5238606	0.1500	0.1452	
2	7.650	7.637	0.013	3283127	0.1500	0.1478	
						RPD = 1.78	
$ 34 DCB Decachlorobiphenyl							
1	7.793	7.787	0.006	4201416	0.1500	0.1473	
2	8.850	8.837	0.013	2396070	0.1500	0.1480	
						RPD = 0.46	
S 1 BHC, Total							
1						0.5899	
2						0.5902	
						RPD = 0.05	

Reagents:

PEST_CAL_.15_00024	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

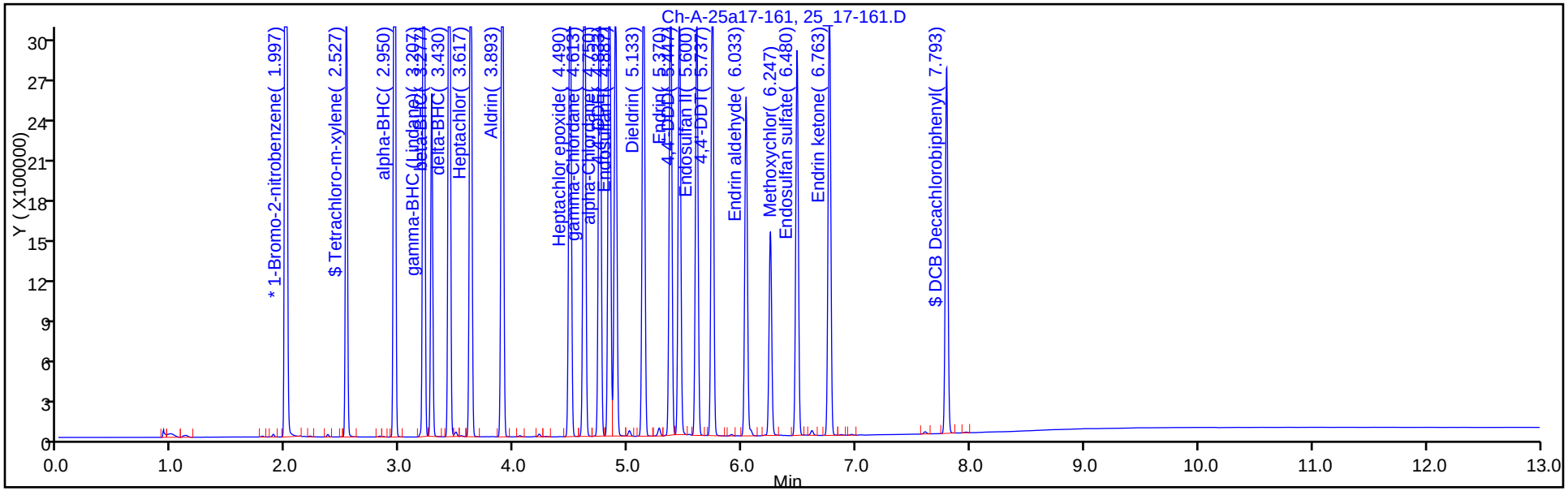
Report Date: 21-Jul-2017 07:04:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

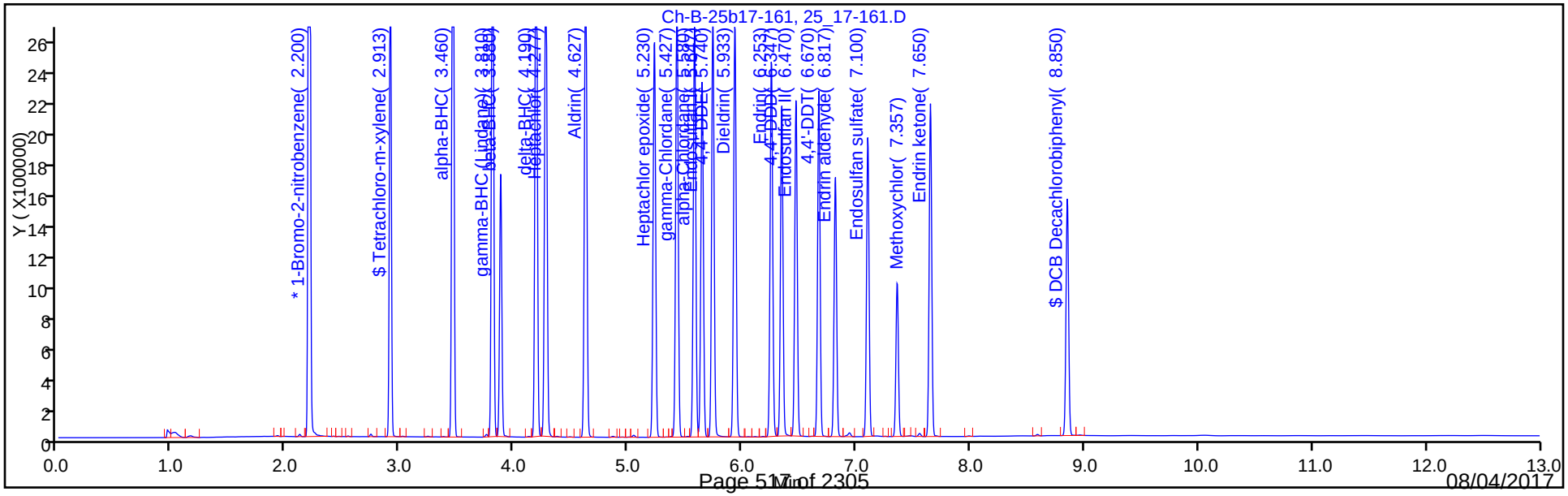
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D

Injection Date:	20-Jul-2017 11:23:55	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	36
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jul-2017 11:43:38 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:09 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14590133	0.5000	0.5000	
2	2.197	2.190	0.007	10463611	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	2760769	0.1000	0.0972	
2	2.907	2.900	0.007	2691792	0.1000	0.1008	
						RPD = 3.70	
6 alpha-BHC							
1	2.947	2.943	0.004	6238209	0.1000	0.1008	
2	3.453	3.447	0.006	4327895	0.1000	0.1010	
						RPD = 0.14	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	5534975	0.1000	0.1007	
2	3.800	3.793	0.007	3682220	0.1000	0.1003	
						RPD = 0.38	
8 beta-BHC							
1	3.270	3.267	0.003	2145019	0.1000	0.0993	
2	3.873	3.863	0.010	1559143	0.1000	0.1004	
						RPD = 1.19	
9 delta-BHC							
1	3.427	3.420	0.007	5491533	0.1000	0.1003	
2	4.183	4.177	0.006	3802962	0.1000	0.1007	
						RPD = 0.34	
11 Heptachlor							
1	3.613	3.607	0.006	4814374	0.1000	0.1011	
2	4.270	4.260	0.010	3422261	0.1000	0.1012	
						RPD = 0.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.890	3.887	0.003	4953087	0.1000	0.1010	
2	4.620	4.610	0.010	3397671	0.1000	0.1012	
						RPD = 0.18	
14 Heptachlor epoxide							
1	4.483	4.480	0.003	4172576	0.1000	0.1009	
2	5.223	5.213	0.010	2797907	0.1000	0.1008	
						RPD = 0.07	
16 gamma-Chlordane							
1	4.610	4.607	0.003	4882487	0.1000	0.1010	
2	5.420	5.413	0.007	3099952	0.1000	0.1009	
						RPD = 0.09	
17 alpha-Chlordane							
1	4.747	4.740	0.007	4594368	0.1000	0.1008	
2	5.577	5.567	0.010	2764770	0.1000	0.1000	
						RPD = 0.75	
18 4,4'-DDE							
1	4.830	4.823	0.007	4529294	0.1000	0.1008	
2	5.737	5.727	0.010	2912946	0.1000	0.1011	
						RPD = 0.25	
19 Endosulfan I							
1	4.883	4.877	0.006	3793793	0.1000	0.1007	
2	5.643	5.633	0.010	2509064	0.1000	0.1011	
						RPD = 0.35	
21 Dieldrin							
1	5.130	5.123	0.007	4278445	0.1000	0.1006	
2	5.930	5.920	0.010	2926621	0.1000	0.1010	
						RPD = 0.45	
23 Endrin							
1	5.367	5.360	0.007	4072224	0.1000	0.1011	
2	6.250	6.240	0.010	2693818	0.1000	0.1011	
						RPD = 0.01	
24 4,4'-DDD							
1	5.443	5.440	0.003	3684876	0.1000	0.1011	
2	6.340	6.333	0.007	2266556	0.1000	0.1010	
						RPD = 0.12	
27 Endosulfan II							
1	5.597	5.590	0.007	3620892	0.1000	0.1010	
2	6.467	6.457	0.010	2344792	0.1000	0.1012	
						RPD = 0.23	
28 4,4'-DDT							
1	5.733	5.730	0.003	3945220	0.1000	0.1009	
2	6.667	6.657	0.010	2292895	0.1000	0.1009	
						RPD = 0.00	
29 Endrin aldehyde							
1	6.030	6.023	0.007	2920853	0.1000	0.1013	
2	6.810	6.803	0.007	1806433	0.1000	0.1014	
						RPD = 0.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	1698697	0.1000	0.1007	
2	7.353	7.347	0.006	1016763	0.1000	0.1006	
						RPD = 0.08	
32 Endosulfan sulfate							
1	6.477	6.470	0.007	3275755	0.1000	0.1016	
2	7.097	7.087	0.010	2049266	0.1000	0.1014	
						RPD = 0.15	
33 Endrin ketone							
1	6.760	6.757	0.003	3797484	0.1000	0.1012	
2	7.647	7.637	0.010	2315790	0.1000	0.1011	
						RPD = 0.05	
$ 34 DCB Decachlorobiphenyl							
1	7.790	7.787	0.003	2988955	0.1000	0.1007	
2	8.847	8.837	0.010	1683638	0.1000	0.1005	
						RPD = 0.13	
S 1 BHC, Total							
1						0.4011	
2						0.4024	
						RPD = 0.32	

Reagents:

PEST_CAL_.10_00026	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

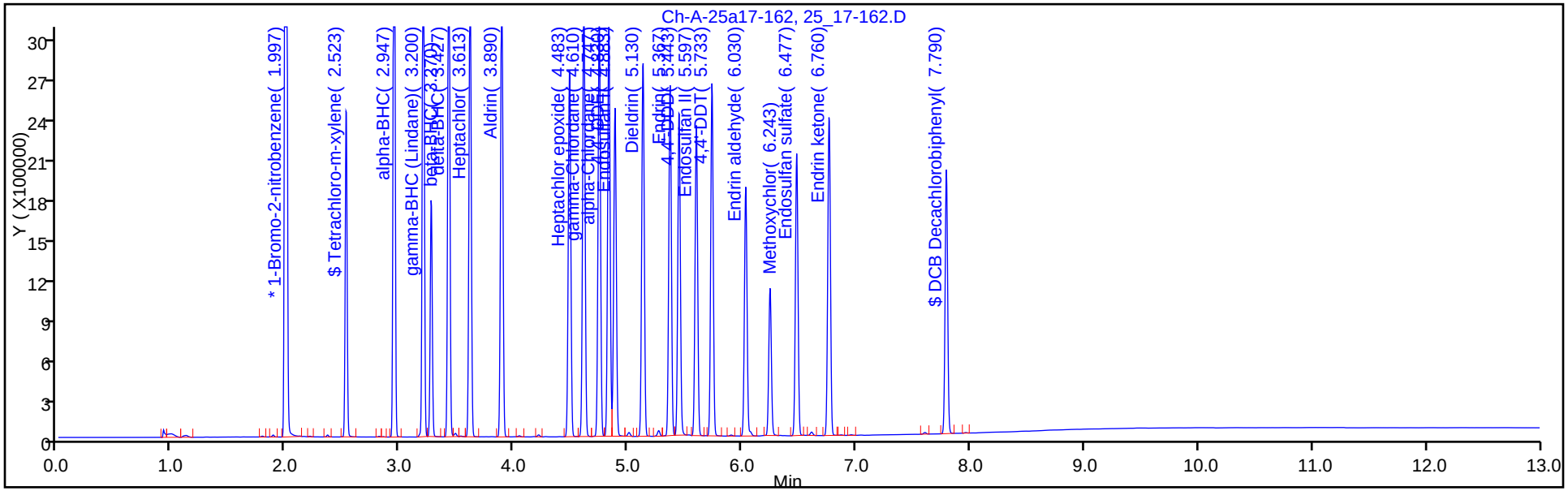
Report Date: 21-Jul-2017 07:04:09 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

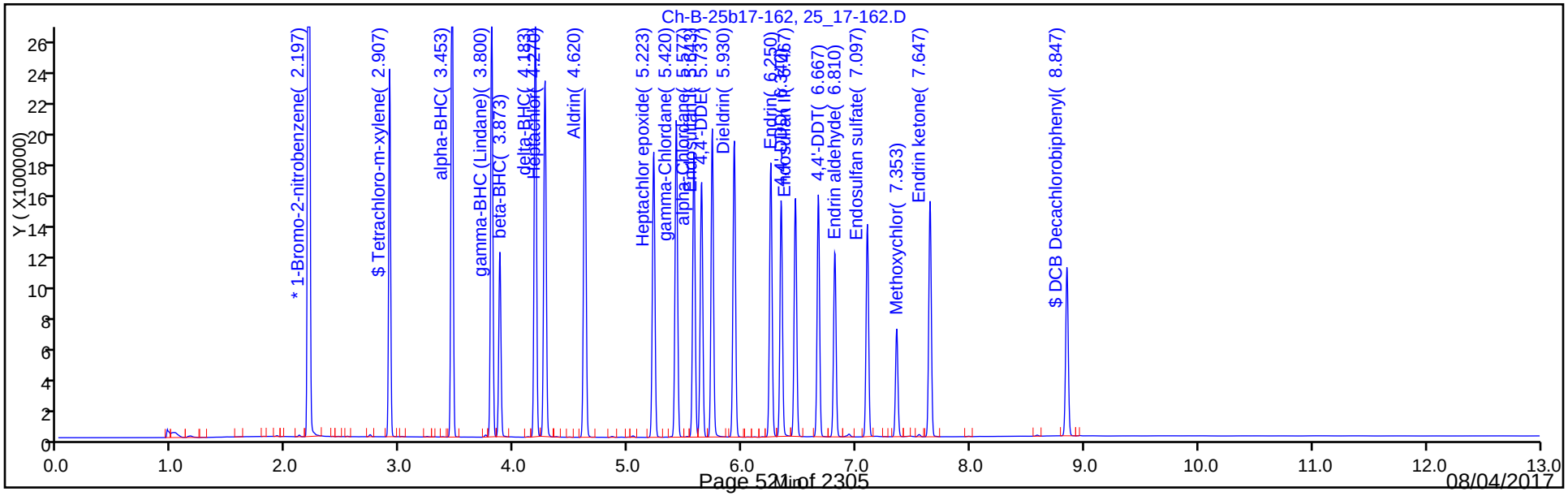
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D

Injection Date:	20-Jul-2017 11:43:38	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D
Lims ID: std3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 20-Jul-2017 12:03:16 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 09:09:49 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:50:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14306926	0.5000	0.5000	
2	2.190	2.190	0.000	10246784	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.520	0.000	1377925	0.0500	0.0500	
2	2.900	2.900	0.000	1372006	0.0500	0.0527	
						RPD = 5.20	
6 alpha-BHC							
1	2.943	2.943	0.000	3213244	0.0500	0.0532	
2	3.447	3.447	0.000	2205389	0.0500	0.0529	
						RPD = 0.65	
7 gamma-BHC (Lindane)							
1	3.197	3.197	0.000	2847000	0.0500	0.0531	
2	3.793	3.793	0.000	1859476	0.0500	0.0521	
						RPD = 1.88	
8 beta-BHC							
1	3.267	3.267	0.000	1078766	0.0500	0.0512	
2	3.863	3.863	0.000	778546	0.0500	0.0515	
						RPD = 0.63	
9 delta-BHC							
1	3.420	3.420	0.000	2800164	0.0500	0.0526	
2	4.177	4.177	0.000	1906142	0.0500	0.0521	
						RPD = 1.10	
11 Heptachlor							
1	3.607	3.607	0.000	2571235	0.0500	0.0550	
2	4.260	4.260	0.000	1771775	0.0500	0.0536	
						RPD = 2.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	2601768	0.0500	0.0542	
2	4.610	4.610	0.000	1736921	0.0500	0.0530	
						RPD = 2.32	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	2231095	0.0500	0.0548	
2	5.213	5.213	0.000	1443231	0.0500	0.0532	
						RPD = 3.01	
16 gamma-Chlordane							
1	4.607	4.607	0.000	2493727	0.0500	0.0528	
2	5.413	5.413	0.000	1560556	0.0500	0.0523	
						RPD = 0.93	
17 alpha-Chlordane							
1	4.740	4.740	0.000	2351663	0.0500	0.0528	
2	5.567	5.567	0.000	1372547	0.0500	0.0511	
						RPD = 3.30	
18 4,4'-DDE							
1	4.823	4.823	0.000	2326143	0.0500	0.0532	
2	5.727	5.727	0.000	1460600	0.0500	0.0522	
						RPD = 1.96	
19 Endosulfan I							
1	4.877	4.877	0.000	2017014	0.0500	0.0545	
2	5.633	5.633	0.000	1289575	0.0500	0.0532	
						RPD = 2.48	
21 Dieldrin							
1	5.123	5.123	0.000	2247573	0.0500	0.0540	
2	5.920	5.920	0.000	1495948	0.0500	0.0530	
						RPD = 1.76	
23 Endrin							
1	5.360	5.360	0.000	2175102	0.0500	0.0549	
2	6.240	6.240	0.000	1374103	0.0500	0.0529	
						RPD = 3.78	
24 4,4'-DDD							
1	5.440	5.440	0.000	1887017	0.0500	0.0532	
2	6.333	6.333	0.000	1121860	0.0500	0.0516	
						RPD = 3.18	
27 Endosulfan II							
1	5.590	5.590	0.000	1912808	0.0500	0.0544	
2	6.457	6.457	0.000	1186491	0.0500	0.0525	
						RPD = 3.63	
28 4,4'-DDT							
1	5.730	5.730	0.000	1997848	0.0500	0.0527	
2	6.657	6.657	0.000	1107622	0.0500	0.0507	
						RPD = 3.81	
29 Endrin aldehyde							
1	6.023	6.023	0.000	1519646	0.0500	0.0536	
2	6.803	6.803	0.000	906360	0.0500	0.0521	
						RPD = 2.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	871432	0.0500	0.0529	
2	7.347	7.347	0.000	485319	0.0500	0.0499	
						RPD = 5.85	
32 Endosulfan sulfate							
1	6.470	6.470	0.000	1691547	0.0500	0.0534	
2	7.087	7.087	0.000	1014907	0.0500	0.0516	
						RPD = 3.61	
33 Endrin ketone							
1	6.757	6.757	0.000	1982962	0.0500	0.0539	
2	7.637	7.637	0.000	1140583	0.0500	0.0513	
						RPD = 4.90	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	1523655	0.0500	0.0522	
2	8.837	8.837	0.000	847819	0.0500	0.0516	
						RPD = 1.17	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

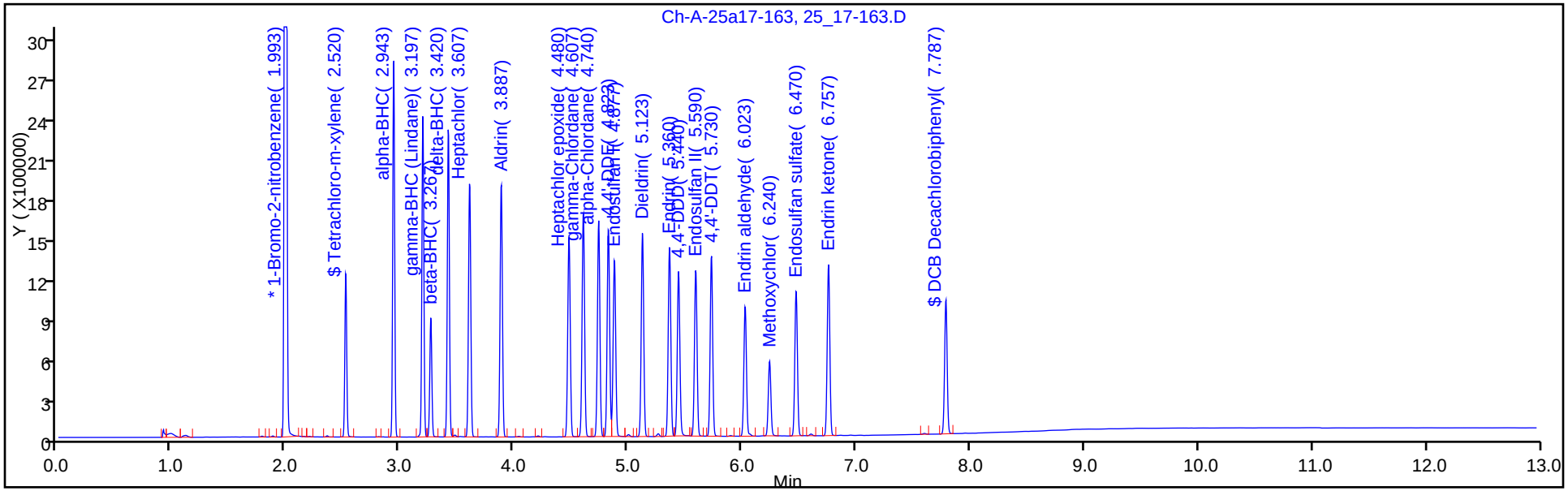
Report Date: 21-Jul-2017 09:09:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

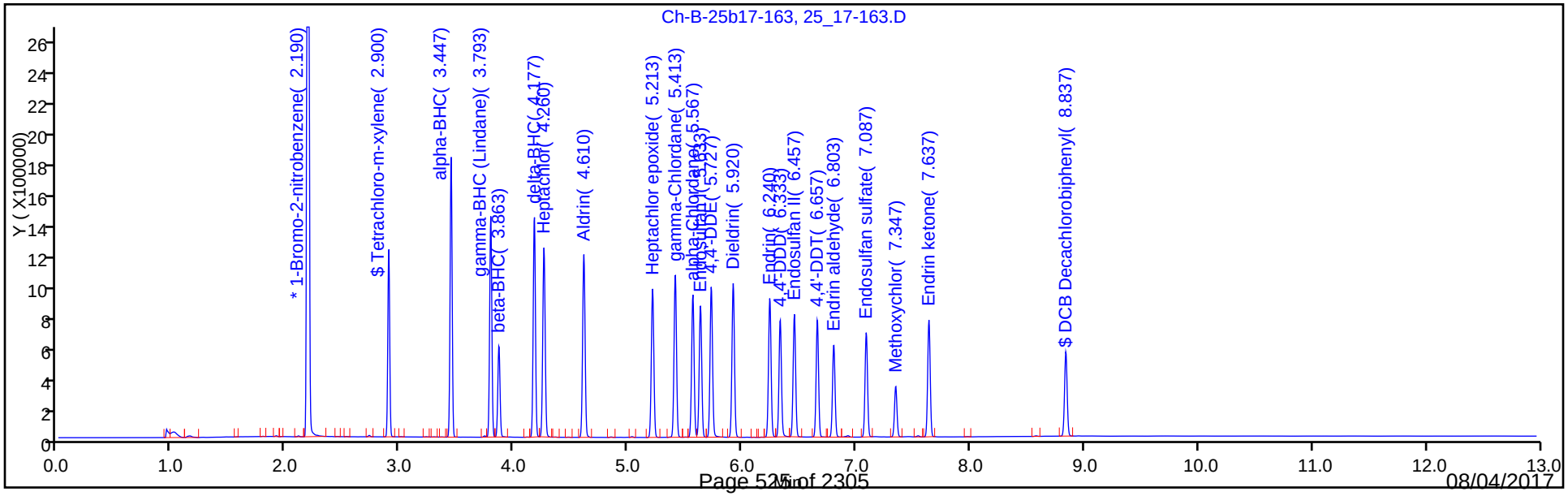
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D

Injection Date:	20-Jul-2017 12:03:16	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jul-2017 12:22:49 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:11 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14421304	0.5000	0.5000	
2	2.190	2.190	0.000	10292415	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	238484	0.0100	0.009465	
2	2.900	2.900	0.000	247727	0.0100	0.009755	
						RPD = 3.01	
6 alpha-BHC							
1	2.943	2.943	0.000	568795	0.0100	0.009848	
2	3.447	3.447	0.000	382657	0.0100	0.009767	
						RPD = 0.83	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	505210	0.0100	0.009840	
2	3.793	3.793	0.000	322126	0.0100	0.009646	
						RPD = 1.99	
8 beta-BHC							
1	3.270	3.267	0.003	194226	0.0100	0.009622	
2	3.867	3.863	0.004	140907	0.0100	0.009780	
						RPD = 1.62	
9 delta-BHC							
1	3.423	3.420	0.003	482768	0.0100	0.009807	
2	4.177	4.177	0.000	324630	0.0100	0.009740	
						RPD = 0.68	
11 Heptachlor							
1	3.610	3.607	0.003	483523	0.0100	0.0101	
2	4.260	4.260	0.000	321573	0.0100	0.009897	
						RPD = 1.91	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	473477	0.0100	0.0100	
2	4.610	4.610	0.000	311120	0.0100	0.009679	
						RPD = 2.87	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	431108	0.0100	0.0101	
2	5.213	5.213	0.000	262983	0.0100	0.009787	
						RPD = 3.58	
16 gamma-Chlordane							
1	4.607	4.607	0.000	447907	0.0100	0.009701	
2	5.413	5.413	0.000	270450	0.0100	0.009734	
						RPD = 0.34	
17 alpha-Chlordane							
1	4.740	4.740	0.000	418316	0.0100	0.009754	
2	5.567	5.567	0.000	239641	0.0100	0.009613	
						RPD = 1.46	
18 4,4'-DDE							
1	4.827	4.823	0.004	396422	0.0100	0.009736	
2	5.727	5.727	0.000	251350	0.0100	0.009691	
						RPD = 0.46	
19 Endosulfan I							
1	4.880	4.877	0.003	389280	0.0100	0.0102	
2	5.633	5.633	0.000	235549	0.0100	0.009860	
						RPD = 3.77	
21 Dieldrin							
1	5.127	5.123	0.004	410766	0.0100	0.0099	
2	5.920	5.920	0.000	264749	0.0100	0.009813	
						RPD = 1.00	
23 Endrin							
1	5.363	5.360	0.003	411532	0.0100	0.0101	
2	6.240	6.240	0.000	244764	0.0100	0.009790	
						RPD = 2.73	
24 4,4'-DDD							
1	5.443	5.440	0.003	320289	0.0100	0.009761	
2	6.333	6.333	0.000	188277	0.0100	0.009546	
						RPD = 2.23	
27 Endosulfan II							
1	5.593	5.590	0.003	362479	0.0100	0.0103	
2	6.457	6.457	0.000	215751	0.0100	0.009798	
						RPD = 4.60	
28 4,4'-DDT							
1	5.730	5.730	0.000	327862	0.0100	0.009620	
2	6.657	6.657	0.000	171206	0.0100	0.009414	
						RPD = 2.17	
29 Endrin aldehyde							
1	6.023	6.023	0.000	293235	0.0100	0.0100	
2	6.800	6.803	-0.003	168699	0.0100	0.009856	
						RPD = 1.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	158894	0.0100	0.0099	
2	7.347	7.347	0.000	79767	0.0100	0.009552	
						RPD = 4.03	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	321289	0.0100	0.0100	
2	7.087	7.087	0.000	185100	0.0100	0.009802	
						RPD = 2.07	
33 Endrin ketone							
1	6.757	6.757	0.000	370765	0.0100	0.0100	
2	7.637	7.637	0.000	199838	0.0100	0.009701	
						RPD = 3.24	
$ 34 DCB Decachlorobiphenyl							
1	7.783	7.787	-0.004	295097	0.0100	0.009898	
2	8.837	8.837	0.000	164949	0.0100	0.0099	
						RPD = 0.11	
S 1 BHC, Total							
1						0.0391	
2						0.0389	
						RPD = 0.47	

Reagents:

pest_cal_.01_00017	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added:	10.00	Units: uL	Run Reagent

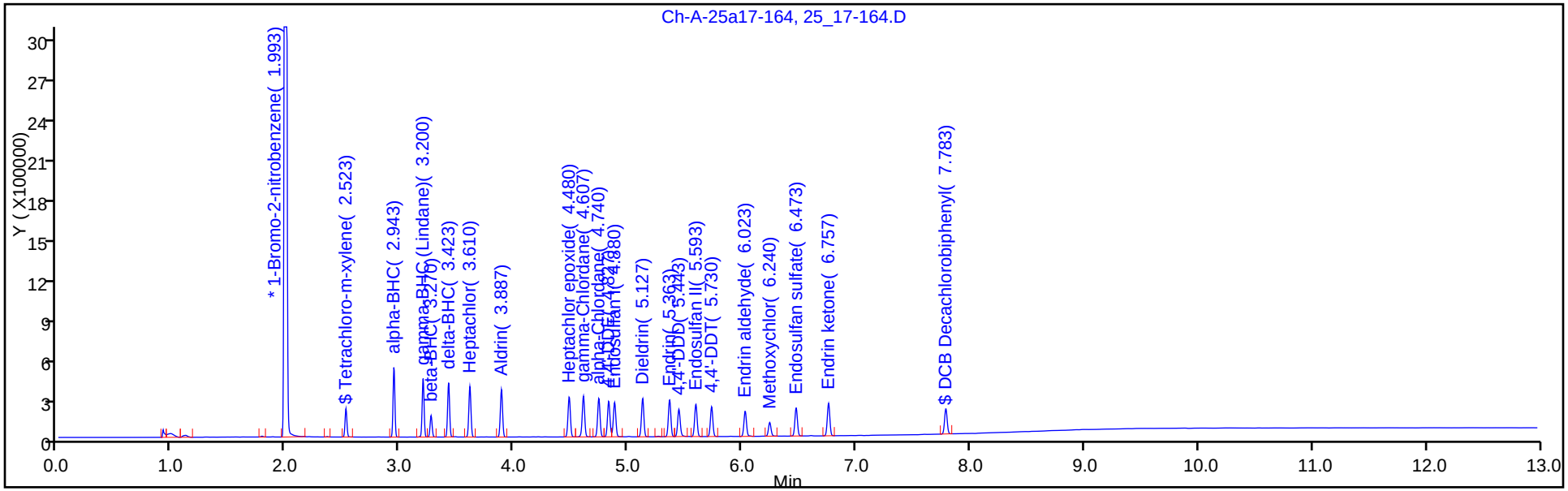
Report Date: 21-Jul-2017 07:04:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

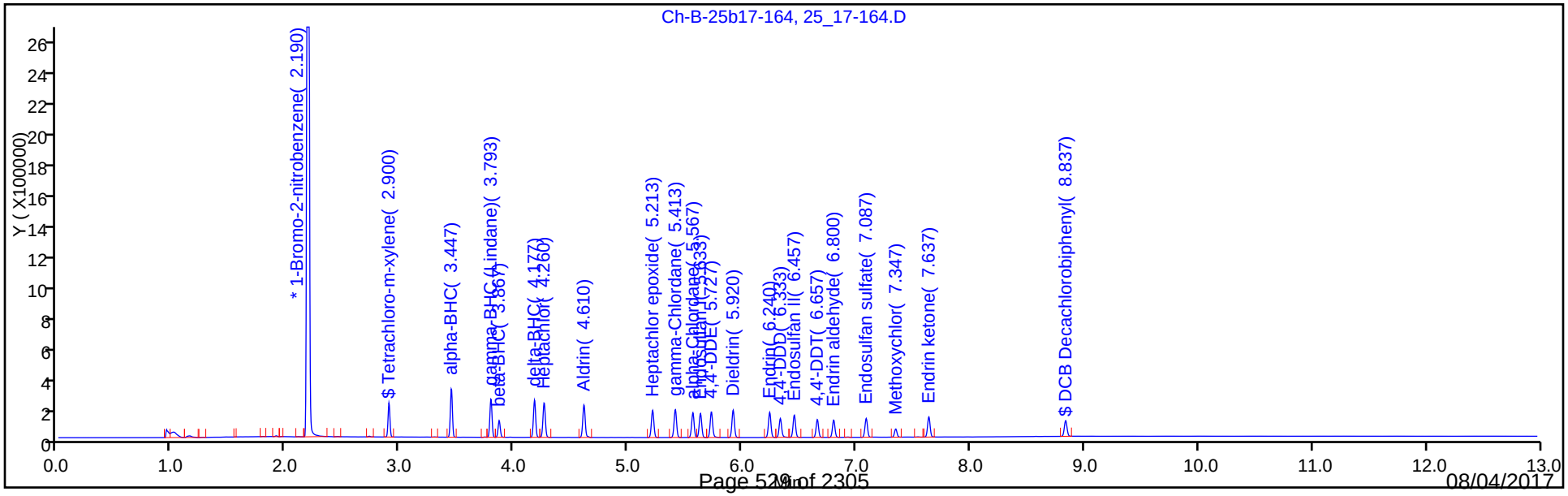
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D

Injection Date:	20-Jul-2017 12:22:49	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Jul-2017 12:42:26 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:13 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:15:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14818153	0.5000	0.5000	
2	2.190	2.190	0.000	10630257	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	123780	0.005000	0.005308	
2	2.900	2.900	0.000	124318	0.005000	0.004921	
						RPD = 7.57	
6 alpha-BHC							
1	2.943	2.943	0.000	267537	0.005000	0.004835	
2	3.447	3.447	0.000	181501	0.005000	0.004896	
						RPD = 1.25	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	238975	0.005000	0.004852	
2	3.793	3.793	0.000	158826	0.005000	0.005021	
						RPD = 3.42	
8 beta-BHC							
1	3.270	3.267	0.003	100012	0.005000	0.005113	
2	3.867	3.863	0.004	69609	0.005000	0.004994	
						RPD = 2.35	
9 delta-BHC							
1	3.423	3.420	0.003	220922	0.005000	0.004906	
2	4.177	4.177	0.000	150253	0.005000	0.004972	
						RPD = 1.33	
11 Heptachlor							
1	3.610	3.607	0.003	231699	0.005000	0.004597	
2	4.260	4.260	0.000	155864	0.005000	0.004778	
						RPD = 3.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	224528	0.005000	0.004710	
2	4.610	4.610	0.000	158874	0.005000	0.004929	
						RPD = 4.54	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	210453	0.005000	0.004583	
2	5.213	5.213	0.000	132707	0.005000	0.004868	
						RPD = 6.04	
16 gamma-Chlordane							
1	4.607	4.607	0.000	225398	0.005000	0.004937	
2	5.410	5.413	-0.003	128866	0.005000	0.004956	
						RPD = 0.39	
17 alpha-Chlordane							
1	4.743	4.740	0.003	204326	0.005000	0.004910	
2	5.567	5.567	0.000	119899	0.005000	0.005109	
						RPD = 3.98	
18 4,4'-DDE							
1	4.830	4.823	0.007	184289	0.005000	0.004890	
2	5.730	5.727	0.003	120388	0.005000	0.004979	
						RPD = 1.79	
19 Endosulfan I							
1	4.880	4.877	0.003	183357	0.005000	0.004561	
2	5.633	5.633	0.000	116164	0.005000	0.004830	
						RPD = 5.73	
21 Dieldrin							
1	5.127	5.123	0.004	199150	0.005000	0.004759	
2	5.920	5.920	0.000	126988	0.005000	0.004864	
						RPD = 2.18	
23 Endrin							
1	5.363	5.360	0.003	200604	0.005000	0.004611	
2	6.240	6.240	0.000	119295	0.005000	0.004883	
						RPD = 5.72	
24 4,4'-DDD							
1	5.447	5.440	0.007	146389	0.005000	0.004873	
2	6.333	6.333	0.000	91778	0.005000	0.005094	
						RPD = 4.43	
27 Endosulfan II							
1	5.593	5.590	0.003	164627	0.005000	0.004553	
2	6.457	6.457	0.000	107295	0.005000	0.004905	
						RPD = 7.45	
28 4,4'-DDT							
1	5.733	5.730	0.003	150384	0.005000	0.004981	
2	6.657	6.657	0.000	78071	0.005000	0.005216	
						RPD = 4.62	
29 Endrin aldehyde							
1	6.027	6.023	0.004	145766	0.005000	0.004712	
2	6.800	6.803	-0.003	84354	0.005000	0.004904	
						RPD = 4.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	74988	0.005000	0.004813	
2	7.343	7.347	-0.004	37096	0.005000	0.005212	
						RPD = 7.95	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	157455	0.005000	0.004732	
2	7.083	7.087	-0.004	91315	0.005000	0.004964	
						RPD = 4.79	
33 Endrin ketone							
1	6.760	6.757	0.003	178126	0.005000	0.004701	
2	7.633	7.637	-0.004	96843	0.005000	0.005034	
						RPD = 6.84	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	152247	0.005000	0.004883	
2	8.833	8.837	-0.004	85605	0.005000	0.004922	
						RPD = 0.79	
S 1 BHC, Total							
1						0.0197	
2						0.0199	
						RPD = 0.89	

Reagents:

pest_cal_.005_00017	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

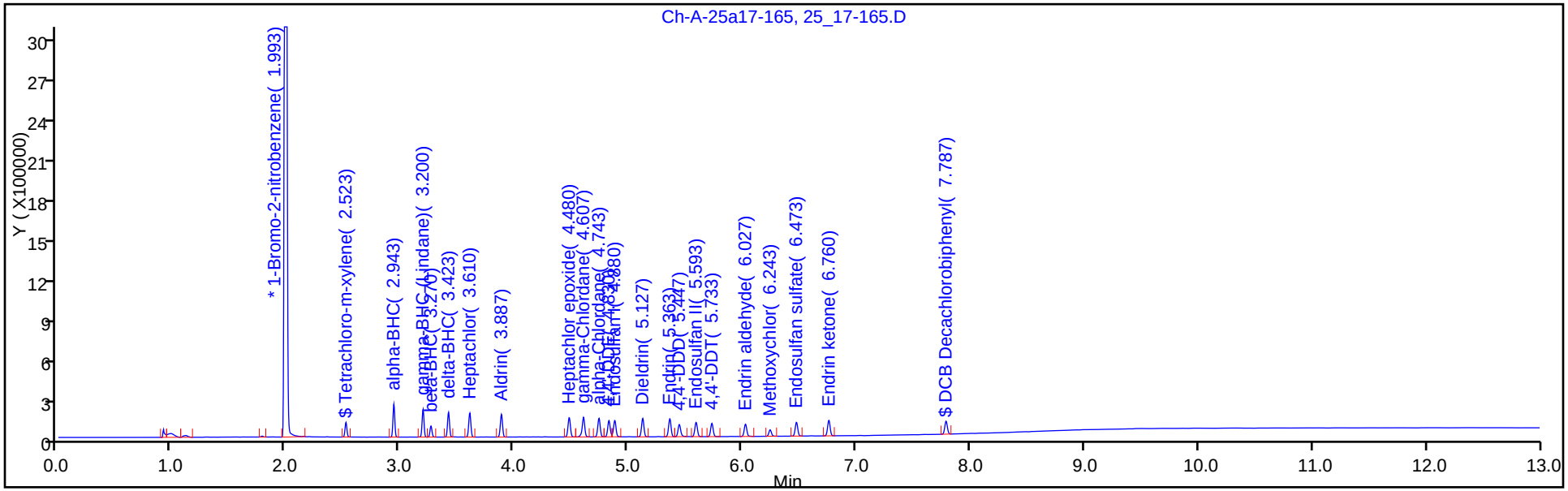
Report Date: 21-Jul-2017 07:04:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

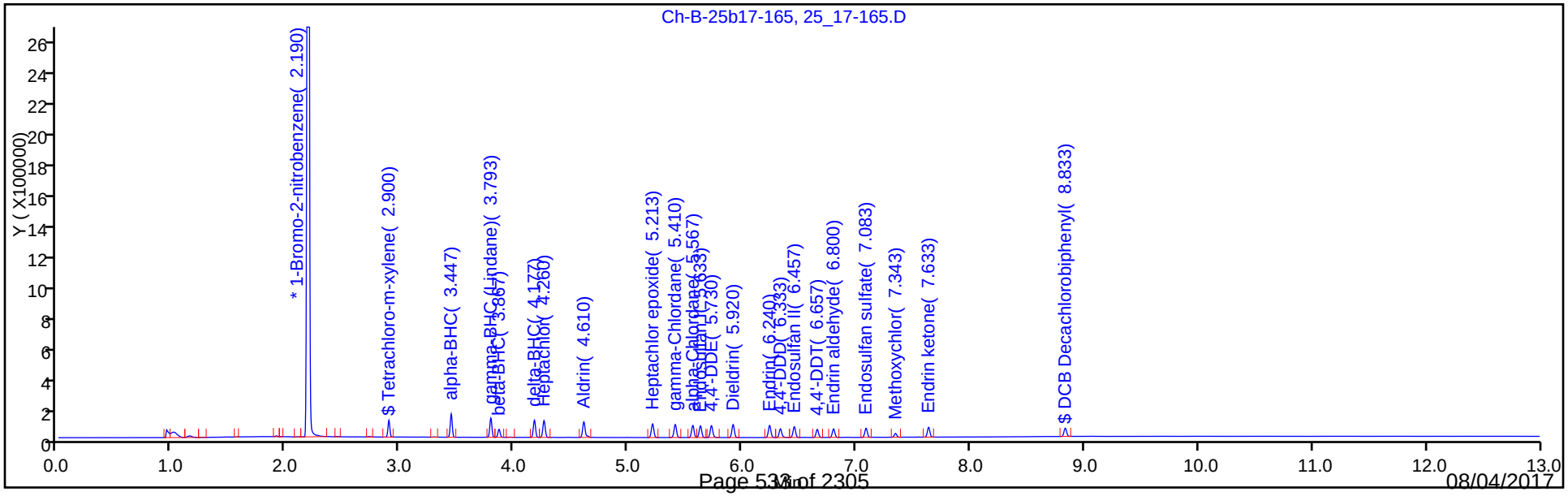
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D

Injection Date:	20-Jul-2017 12:42:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	40
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.7074	1.8589	2.1523	2.0681	2.0049	Lin1	-0.002	2.0639							0.9990		0.9900
gamma-BHC (Lindane)	1.4941	1.5649	1.8147	1.7595	1.7345	Lin1	-0.001	1.7683							0.9990		0.9900
beta-BHC	0.6548	0.6845	0.7598	0.7450	0.7346	Lin1	0	0.7463							1.0000		0.9900
delta-BHC	1.4134	1.5770	1.8602	1.8172	1.7824	Lin1	-0.002	1.8253							0.9990		0.9900
Heptachlor	1.4662	1.5622	1.7291	1.6353	1.5681	Lin1	0	1.6197							0.9980		0.9900
Aldrin	1.4945	1.5114	1.6951	1.6236	1.5648	Lin1	0	1.6086							0.9990		0.9900
Heptachlor epoxide	1.2484	1.2776	1.4085	1.3370	1.2941	Lin1	0	1.3282							0.9990		0.9900
gamma-Chlordane	1.2123	1.3138	1.5230	1.4813	1.4445	Lin1	-0.001	1.4811							0.9990		0.9900
alpha-Chlordane	1.1279	1.1642	1.3395	1.3211	1.3176	Lin1	-0.001	1.3329							1.0000		0.9900
Endosulfan I	1.0928	1.1443	1.2585	1.1989	1.1553	Lin1	0	1.1886							0.9990		0.9900
4,4'-DDE	1.1325	1.2210	1.4254	1.3919	1.3537	Lin1	-0.001	1.3894							0.9990		0.9900
Dieldrin	1.1946	1.2861	1.4599	1.3985	1.3518	Lin1	-0.001	1.3919							0.9990		0.9900
Endrin	1.1222	1.1891	1.3410	1.2872	1.2442	Lin1	-0.001	1.2797							0.9990		0.9900
4,4'-DDD	0.8634	0.9146	1.0948	1.0831	1.0610	Lin1	-0.001	1.0848							1.0000		0.9900
Endosulfan II	1.0093	1.0481	1.1579	1.1205	1.0828	Lin1	0	1.1108							0.9990		0.9900
4,4'-DDT	0.7344	0.8317	1.0809	1.0957	1.0830	Lin1	-0.002	1.1065							1.0000		0.9900
Endrin aldehyde	0.7935	0.8195	0.8845	0.8632	0.8342	Lin1	0	0.8538							0.9990		0.9900
Endosulfan sulfate	0.8590	0.8992	0.9905	0.9792	0.9496	Lin1	-0.001	0.9708							0.9990		0.9900
Methoxychlor	0.3490	0.3875	0.4736	0.4859	0.4843	Lin1	-0.001	0.4908							1.0000		0.9900
Endrin ketone	0.9110	0.9708	1.1131	1.1066	1.0815	Lin1	-0.001	1.1042							1.0000		0.9900
Tetrachloro-m-xylene	1.1695	1.2034	1.3390	1.2863	1.2498	Lin1	0	1.2800							0.9990		0.9900
DCB Decachlorobiphenyl	0.8053	0.8013	0.8274	0.8045	0.7893	Lin1	0.0001	0.7994							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 367911

SDG No.:

Instrument ID: HP6890-25 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/20/2017 11:23 Calibration End Date: 07/20/2017 12:42 Calibration ID: 30920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-367911/40	25_17-165.D
Level 2	STD4 480-367911/39	25_17-164.D
Level 3	STD3 480-367911/38	25_17-163.D
Level 4	STD2 480-367911/37	25_17-162.D
Level 5	STD1 480-367911/36	25_17-161.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Lin1	181501	382657	2205389	4327895	6086395	0.00500	0.0100	0.0500	0.100	0.150
gamma-BHC (Lindane)	BNB	Lin1	158826	322126	1859476	3682220	5265318	0.00500	0.0100	0.0500	0.100	0.150
beta-BHC	BNB	Lin1	69609	140907	778546	1559143	2230068	0.00500	0.0100	0.0500	0.100	0.150
delta-BHC	BNB	Lin1	150253	324630	1906142	3802962	5410855	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor	BNB	Lin1	155864	321573	1771775	3422261	4760376	0.00500	0.0100	0.0500	0.100	0.150
Aldrin	BNB	Lin1	158874	311120	1736921	3397671	4750207	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor epoxide	BNB	Lin1	132707	262983	1443231	2797907	3928434	0.00500	0.0100	0.0500	0.100	0.150
gamma-Chlordane	BNB	Lin1	128866	270450	1560556	3099952	4385102	0.00500	0.0100	0.0500	0.100	0.150
alpha-Chlordane	BNB	Lin1	119899	239641	1372547	2764770	3999723	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan I	BNB	Lin1	116164	235549	1289575	2509064	3507119	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDE	BNB	Lin1	120388	251350	1460600	2912946	4109303	0.00500	0.0100	0.0500	0.100	0.150
Dieldrin	BNB	Lin1	126988	264749	1495948	2926621	4103709	0.00500	0.0100	0.0500	0.100	0.150
Endrin	BNB	Lin1	119295	244764	1374103	2693818	3776963	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDD	BNB	Lin1	91778	188277	1121860	2266556	3220941	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan II	BNB	Lin1	107295	215751	1186491	2344792	3286959	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDT	BNB	Lin1	78071	171206	1107622	2292895	3287650	0.00500	0.0100	0.0500	0.100	0.150
Endrin aldehyde	BNB	Lin1	84354	168699	906360	1806433	2532436	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan sulfate	BNB	Lin1	91315	185100	1014907	2049266	2882717	0.00500	0.0100	0.0500	0.100	0.150
Methoxychlor	BNB	Lin1	37096	79767	485319	1016763	1470298	0.00500	0.0100	0.0500	0.100	0.150
Endrin ketone	BNB	Lin1	96843	199838	1140583	2315790	3283127	0.00500	0.0100	0.0500	0.100	0.150
Tetrachloro-m-xylene	BNB	Lin1	124318	247727	1372006	2691792	3794119	0.00500	0.0100	0.0500	0.100	0.150
DCB Decachlorobiphenyl	BNB	Lin1	85605	164949	847819	1683638	2396070	0.00500	0.0100	0.0500	0.100	0.150

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jul-2017 11:23:55 ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:06 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14021348	0.5000	0.5000	
2	2.200	2.190	0.010	10118948	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.527	2.520	0.007	4195356	0.1500	0.1531	
2	2.913	2.900	0.013	3794119	0.1500	0.1468	
						RPD = 4.16	
6 alpha-BHC							
1	2.950	2.943	0.007	8712119	0.1500	0.1462	
2	3.460	3.447	0.013	6086395	0.1500	0.1465	
						RPD = 0.16	
7 gamma-BHC (Lindane)							
1	3.207	3.197	0.010	7755592	0.1500	0.1465	
2	3.810	3.793	0.017	5265318	0.1500	0.1479	
						RPD = 0.95	
8 beta-BHC							
1	3.277	3.267	0.010	3117547	0.1500	0.1498	
2	3.880	3.863	0.017	2230068	0.1500	0.1483	
						RPD = 1.04	
9 delta-BHC							
1	3.430	3.420	0.010	7775718	0.1500	0.1473	
2	4.190	4.177	0.013	5410855	0.1500	0.1476	
						RPD = 0.16	
11 Heptachlor							
1	3.617	3.607	0.010	6601656	0.1500	0.1443	
2	4.277	4.260	0.017	4760376	0.1500	0.1455	
						RPD = 0.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.893	3.887	0.006	6839396	0.1500	0.1451	
2	4.627	4.610	0.017	4750207	0.1500	0.1462	
						RPD = 0.77	
14 Heptachlor epoxide							
1	4.490	4.480	0.010	5736978	0.1500	0.1446	
2	5.230	5.213	0.017	3928434	0.1500	0.1463	
						RPD = 1.21	
16 gamma-Chlordane							
1	4.613	4.607	0.006	6821947	0.1500	0.1466	
2	5.427	5.413	0.014	4385102	0.1500	0.1472	
						RPD = 0.36	
17 alpha-Chlordane							
1	4.750	4.740	0.010	6440908	0.1500	0.1467	
2	5.580	5.567	0.013	3999723	0.1500	0.1492	
						RPD = 1.63	
18 4,4'-DDE							
1	4.833	4.823	0.010	6333464	0.1500	0.1463	
2	5.740	5.727	0.013	4109303	0.1500	0.1470	
						RPD = 0.50	
19 Endosulfan I							
1	4.887	4.877	0.010	5241380	0.1500	0.1449	
2	5.647	5.633	0.014	3507119	0.1500	0.1460	
						RPD = 0.75	
21 Dieldrin							
1	5.133	5.123	0.010	5961510	0.1500	0.1458	
2	5.933	5.920	0.013	4103709	0.1500	0.1463	
						RPD = 0.33	
23 Endrin							
1	5.370	5.360	0.010	5580089	0.1500	0.1443	
2	6.253	6.240	0.013	3776963	0.1500	0.1463	
						RPD = 1.41	
24 4,4'-DDD							
1	5.447	5.440	0.007	5131521	0.1500	0.1460	
2	6.347	6.333	0.014	3220941	0.1500	0.1478	
						RPD = 1.21	
27 Endosulfan II							
1	5.600	5.590	0.010	4988199	0.1500	0.1448	
2	6.470	6.457	0.013	3286959	0.1500	0.1466	
						RPD = 1.25	
28 4,4'-DDT							
1	5.737	5.730	0.007	5535921	0.1500	0.1468	
2	6.670	6.657	0.013	3287650	0.1500	0.1487	
						RPD = 1.31	
29 Endrin aldehyde							
1	6.033	6.023	0.010	4025863	0.1500	0.1454	
2	6.817	6.803	0.014	2532436	0.1500	0.1468	
						RPD = 0.99	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.247	6.240	0.007	2379153	0.1500	0.1466	
2	7.357	7.347	0.010	1470298	0.1500	0.1497	
						RPD = 2.08	
32 Endosulfan sulfate							
1	6.480	6.470	0.010	4501001	0.1500	0.1452	
2	7.100	7.087	0.013	2882717	0.1500	0.1473	
						RPD = 1.38	
33 Endrin ketone							
1	6.763	6.757	0.006	5238606	0.1500	0.1452	
2	7.650	7.637	0.013	3283127	0.1500	0.1478	
						RPD = 1.78	
$ 34 DCB Decachlorobiphenyl							
1	7.793	7.787	0.006	4201416	0.1500	0.1473	
2	8.850	8.837	0.013	2396070	0.1500	0.1480	
						RPD = 0.46	
S 1 BHC, Total							
1						0.5899	
2						0.5902	
						RPD = 0.05	

Reagents:

PEST_CAL_.15_00024	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

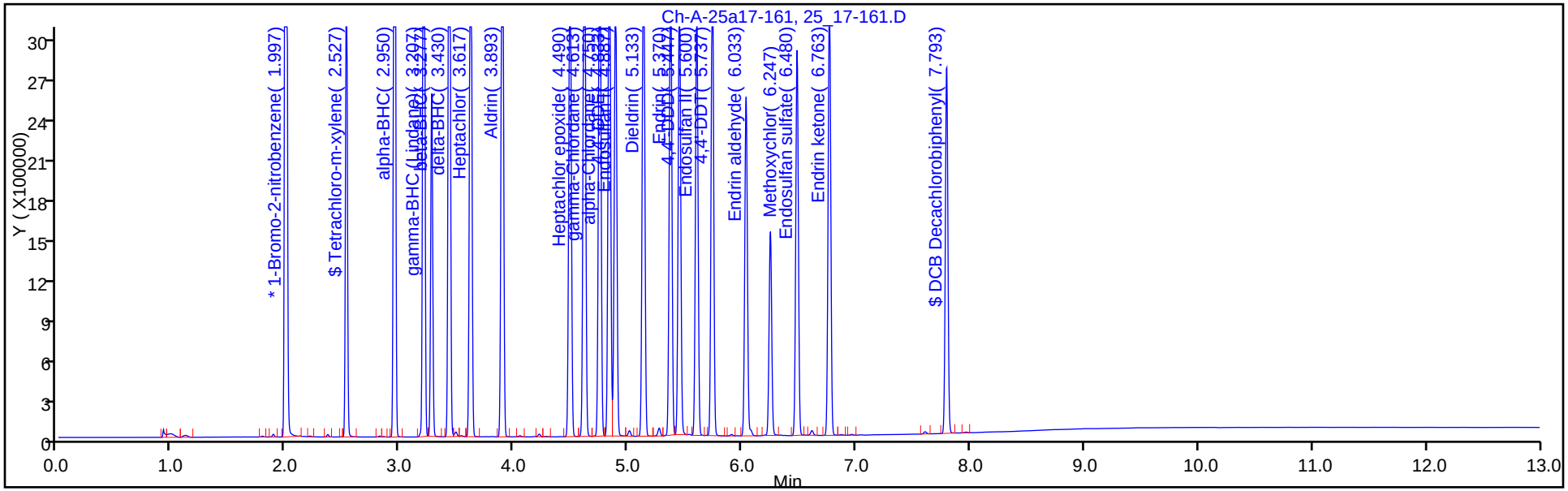
Report Date: 21-Jul-2017 07:04:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

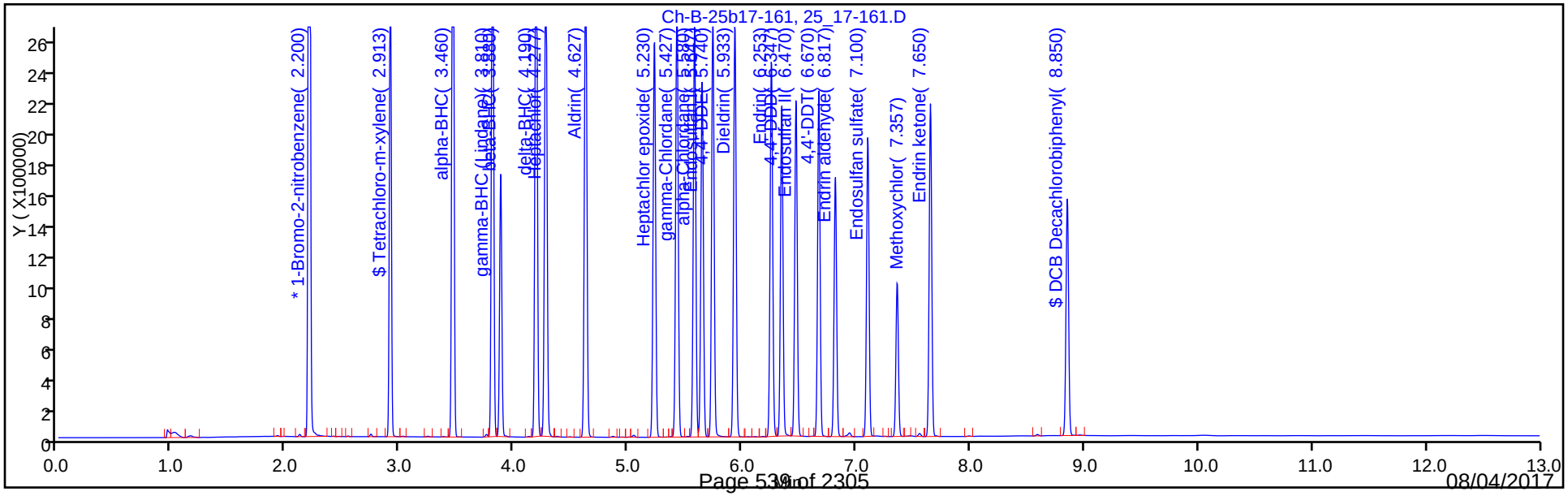
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-161.D

Injection Date:	20-Jul-2017 11:23:55	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	36
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jul-2017 11:43:38 ALS Bottle#: 0 Worklist Smp#: 37
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:09 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.993	0.004	14590133	0.5000	0.5000	
2	2.197	2.190	0.007	10463611	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	2760769	0.1000	0.0972	
2	2.907	2.900	0.007	2691792	0.1000	0.1008	
						RPD = 3.70	
6 alpha-BHC							
1	2.947	2.943	0.004	6238209	0.1000	0.1008	
2	3.453	3.447	0.006	4327895	0.1000	0.1010	
						RPD = 0.14	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	5534975	0.1000	0.1007	
2	3.800	3.793	0.007	3682220	0.1000	0.1003	
						RPD = 0.38	
8 beta-BHC							
1	3.270	3.267	0.003	2145019	0.1000	0.0993	
2	3.873	3.863	0.010	1559143	0.1000	0.1004	
						RPD = 1.19	
9 delta-BHC							
1	3.427	3.420	0.007	5491533	0.1000	0.1003	
2	4.183	4.177	0.006	3802962	0.1000	0.1007	
						RPD = 0.34	
11 Heptachlor							
1	3.613	3.607	0.006	4814374	0.1000	0.1011	
2	4.270	4.260	0.010	3422261	0.1000	0.1012	
						RPD = 0.15	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.890	3.887	0.003	4953087	0.1000	0.1010	
2	4.620	4.610	0.010	3397671	0.1000	0.1012	
						RPD = 0.18	
14 Heptachlor epoxide							
1	4.483	4.480	0.003	4172576	0.1000	0.1009	
2	5.223	5.213	0.010	2797907	0.1000	0.1008	
						RPD = 0.07	
16 gamma-Chlordane							
1	4.610	4.607	0.003	4882487	0.1000	0.1010	
2	5.420	5.413	0.007	3099952	0.1000	0.1009	
						RPD = 0.09	
17 alpha-Chlordane							
1	4.747	4.740	0.007	4594368	0.1000	0.1008	
2	5.577	5.567	0.010	2764770	0.1000	0.1000	
						RPD = 0.75	
18 4,4'-DDE							
1	4.830	4.823	0.007	4529294	0.1000	0.1008	
2	5.737	5.727	0.010	2912946	0.1000	0.1011	
						RPD = 0.25	
19 Endosulfan I							
1	4.883	4.877	0.006	3793793	0.1000	0.1007	
2	5.643	5.633	0.010	2509064	0.1000	0.1011	
						RPD = 0.35	
21 Dieldrin							
1	5.130	5.123	0.007	4278445	0.1000	0.1006	
2	5.930	5.920	0.010	2926621	0.1000	0.1010	
						RPD = 0.45	
23 Endrin							
1	5.367	5.360	0.007	4072224	0.1000	0.1011	
2	6.250	6.240	0.010	2693818	0.1000	0.1011	
						RPD = 0.01	
24 4,4'-DDD							
1	5.443	5.440	0.003	3684876	0.1000	0.1011	
2	6.340	6.333	0.007	2266556	0.1000	0.1010	
						RPD = 0.12	
27 Endosulfan II							
1	5.597	5.590	0.007	3620892	0.1000	0.1010	
2	6.467	6.457	0.010	2344792	0.1000	0.1012	
						RPD = 0.23	
28 4,4'-DDT							
1	5.733	5.730	0.003	3945220	0.1000	0.1009	
2	6.667	6.657	0.010	2292895	0.1000	0.1009	
						RPD = 0.00	
29 Endrin aldehyde							
1	6.030	6.023	0.007	2920853	0.1000	0.1013	
2	6.810	6.803	0.007	1806433	0.1000	0.1014	
						RPD = 0.08	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	1698697	0.1000	0.1007	
2	7.353	7.347	0.006	1016763	0.1000	0.1006	
						RPD = 0.08	
32 Endosulfan sulfate							
1	6.477	6.470	0.007	3275755	0.1000	0.1016	
2	7.097	7.087	0.010	2049266	0.1000	0.1014	
						RPD = 0.15	
33 Endrin ketone							
1	6.760	6.757	0.003	3797484	0.1000	0.1012	
2	7.647	7.637	0.010	2315790	0.1000	0.1011	
						RPD = 0.05	
$ 34 DCB Decachlorobiphenyl							
1	7.790	7.787	0.003	2988955	0.1000	0.1007	
2	8.847	8.837	0.010	1683638	0.1000	0.1005	
						RPD = 0.13	
S 1 BHC, Total							
1						0.4011	
2						0.4024	
						RPD = 0.32	

Reagents:

PEST_CAL_.10_00026	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

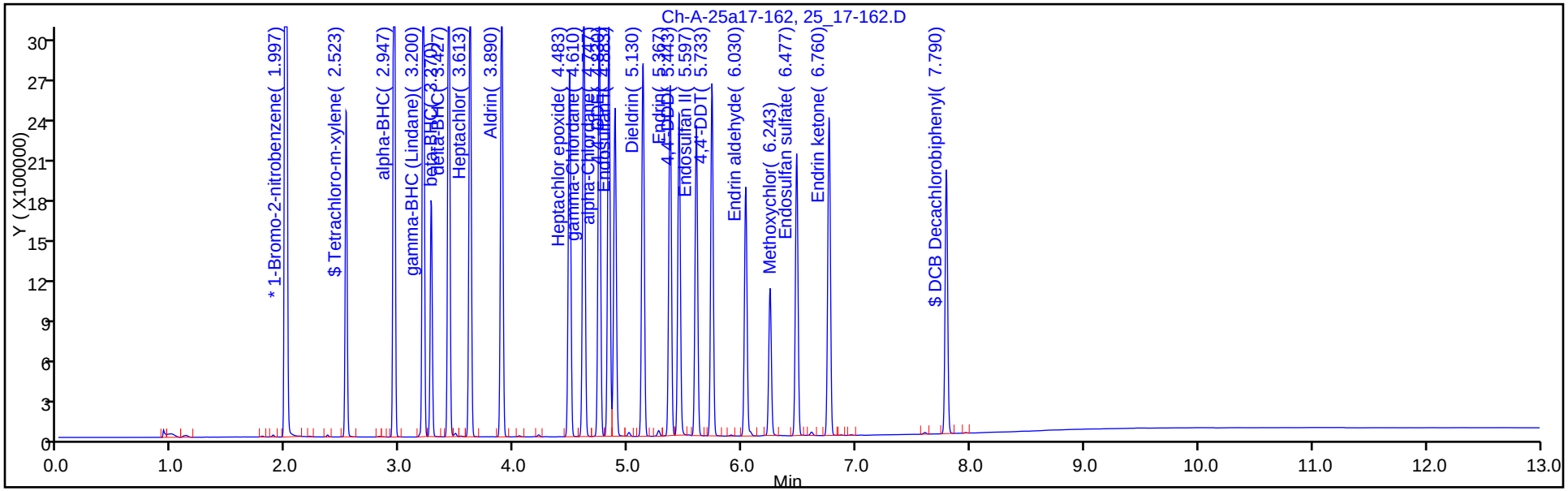
Report Date: 21-Jul-2017 07:04:10 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

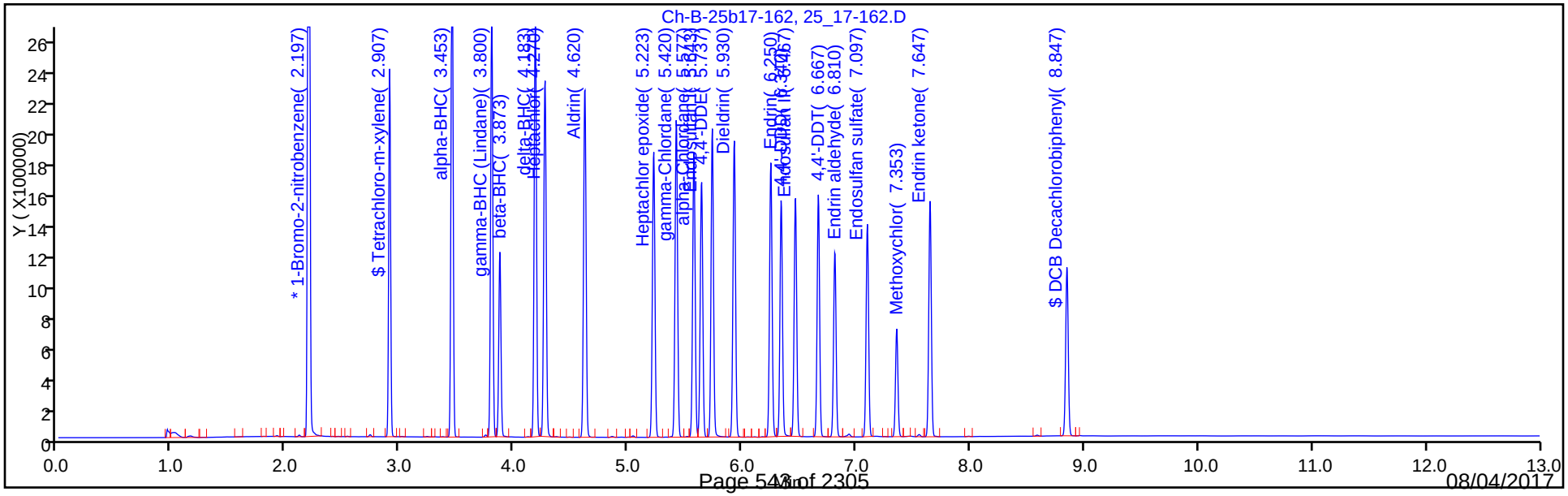
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-162.D

Injection Date:	20-Jul-2017 11:43:38	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	37
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D
Lims ID: std3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 20-Jul-2017 12:03:16 ALS Bottle#: 0 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 09:09:49 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:50:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14306926	0.5000	0.5000	
2	2.190	2.190	0.000	10246784	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.520	0.000	1377925	0.0500	0.0500	
2	2.900	2.900	0.000	1372006	0.0500	0.0527	
						RPD = 5.20	
6 alpha-BHC							
1	2.943	2.943	0.000	3213244	0.0500	0.0532	
2	3.447	3.447	0.000	2205389	0.0500	0.0529	
						RPD = 0.65	
7 gamma-BHC (Lindane)							
1	3.197	3.197	0.000	2847000	0.0500	0.0531	
2	3.793	3.793	0.000	1859476	0.0500	0.0521	
						RPD = 1.88	
8 beta-BHC							
1	3.267	3.267	0.000	1078766	0.0500	0.0512	
2	3.863	3.863	0.000	778546	0.0500	0.0515	
						RPD = 0.63	
9 delta-BHC							
1	3.420	3.420	0.000	2800164	0.0500	0.0526	
2	4.177	4.177	0.000	1906142	0.0500	0.0521	
						RPD = 1.10	
11 Heptachlor							
1	3.607	3.607	0.000	2571235	0.0500	0.0550	
2	4.260	4.260	0.000	1771775	0.0500	0.0536	
						RPD = 2.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	2601768	0.0500	0.0542	
2	4.610	4.610	0.000	1736921	0.0500	0.0530	
						RPD = 2.32	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	2231095	0.0500	0.0548	
2	5.213	5.213	0.000	1443231	0.0500	0.0532	
						RPD = 3.01	
16 gamma-Chlordane							
1	4.607	4.607	0.000	2493727	0.0500	0.0528	
2	5.413	5.413	0.000	1560556	0.0500	0.0523	
						RPD = 0.93	
17 alpha-Chlordane							
1	4.740	4.740	0.000	2351663	0.0500	0.0528	
2	5.567	5.567	0.000	1372547	0.0500	0.0511	
						RPD = 3.30	
18 4,4'-DDE							
1	4.823	4.823	0.000	2326143	0.0500	0.0532	
2	5.727	5.727	0.000	1460600	0.0500	0.0522	
						RPD = 1.96	
19 Endosulfan I							
1	4.877	4.877	0.000	2017014	0.0500	0.0545	
2	5.633	5.633	0.000	1289575	0.0500	0.0532	
						RPD = 2.48	
21 Dieldrin							
1	5.123	5.123	0.000	2247573	0.0500	0.0540	
2	5.920	5.920	0.000	1495948	0.0500	0.0530	
						RPD = 1.76	
23 Endrin							
1	5.360	5.360	0.000	2175102	0.0500	0.0549	
2	6.240	6.240	0.000	1374103	0.0500	0.0529	
						RPD = 3.78	
24 4,4'-DDD							
1	5.440	5.440	0.000	1887017	0.0500	0.0532	
2	6.333	6.333	0.000	1121860	0.0500	0.0516	
						RPD = 3.18	
27 Endosulfan II							
1	5.590	5.590	0.000	1912808	0.0500	0.0544	
2	6.457	6.457	0.000	1186491	0.0500	0.0525	
						RPD = 3.63	
28 4,4'-DDT							
1	5.730	5.730	0.000	1997848	0.0500	0.0527	
2	6.657	6.657	0.000	1107622	0.0500	0.0507	
						RPD = 3.81	
29 Endrin aldehyde							
1	6.023	6.023	0.000	1519646	0.0500	0.0536	
2	6.803	6.803	0.000	906360	0.0500	0.0521	
						RPD = 2.93	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	871432	0.0500	0.0529	
2	7.347	7.347	0.000	485319	0.0500	0.0499	
						RPD = 5.85	
32 Endosulfan sulfate							
1	6.470	6.470	0.000	1691547	0.0500	0.0534	
2	7.087	7.087	0.000	1014907	0.0500	0.0516	
						RPD = 3.61	
33 Endrin ketone							
1	6.757	6.757	0.000	1982962	0.0500	0.0539	
2	7.637	7.637	0.000	1140583	0.0500	0.0513	
						RPD = 4.90	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	1523655	0.0500	0.0522	
2	8.837	8.837	0.000	847819	0.0500	0.0516	
						RPD = 1.17	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

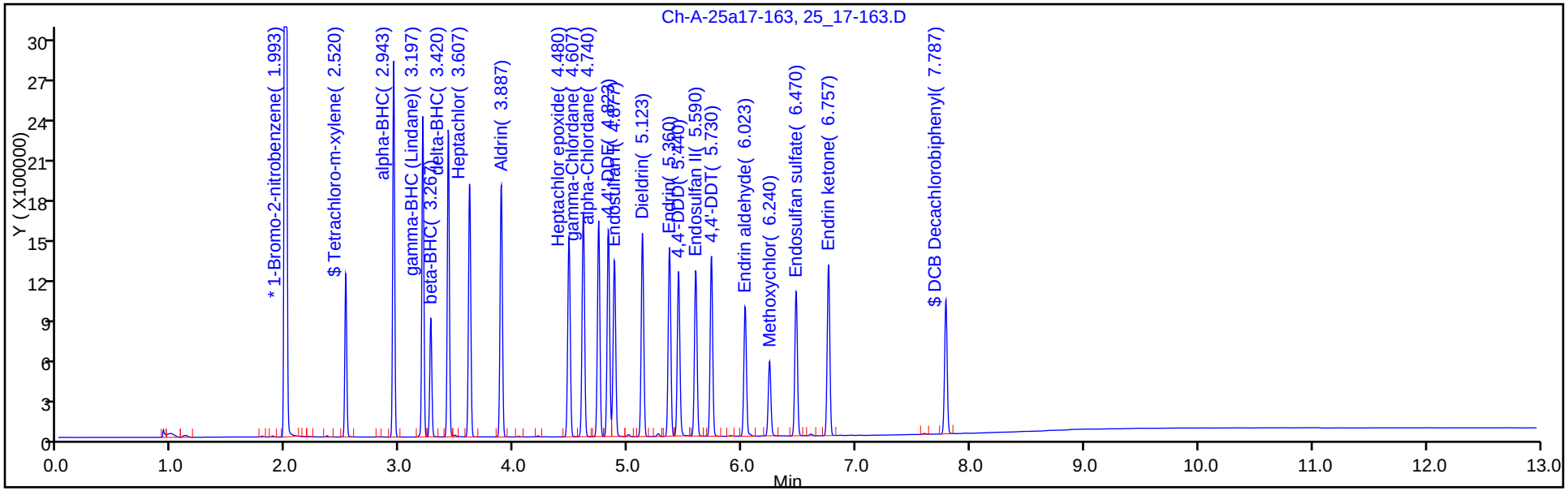
Report Date: 21-Jul-2017 09:09:50 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

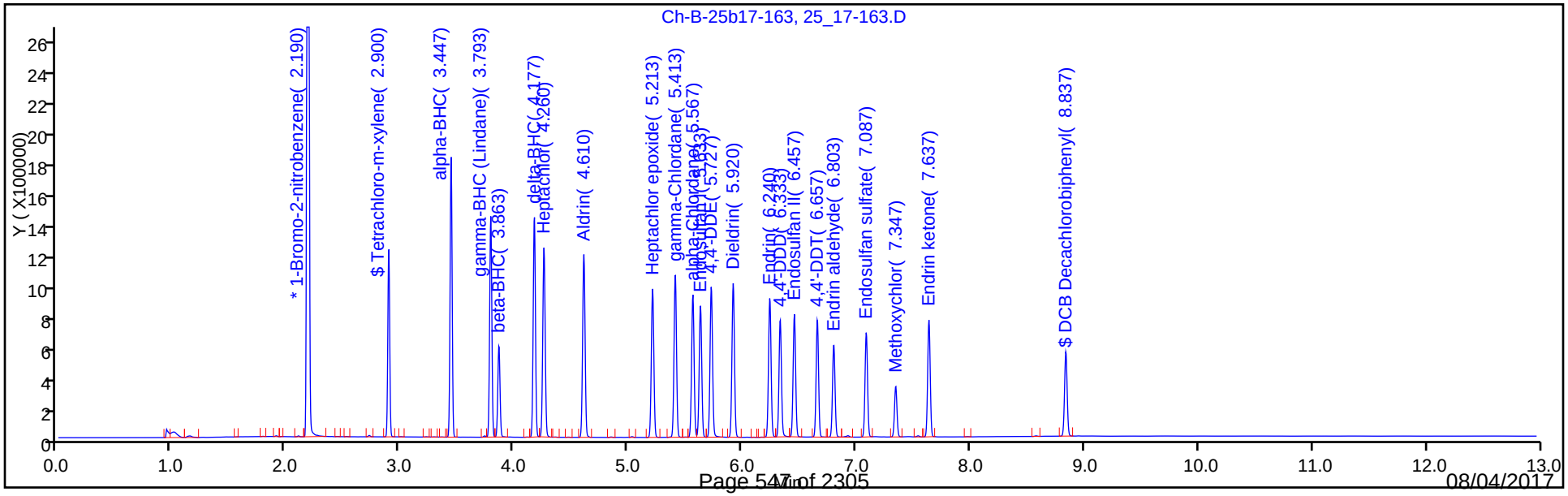
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-163.D

Injection Date:	20-Jul-2017 12:03:16	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	38
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jul-2017 12:22:49 ALS Bottle#: 0 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:11 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14421304	0.5000	0.5000	
2	2.190	2.190	0.000	10292415	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	238484	0.0100	0.009465	
2	2.900	2.900	0.000	247727	0.0100	0.009755	
						RPD = 3.01	
6 alpha-BHC							
1	2.943	2.943	0.000	568795	0.0100	0.009848	
2	3.447	3.447	0.000	382657	0.0100	0.009767	
						RPD = 0.83	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	505210	0.0100	0.009840	
2	3.793	3.793	0.000	322126	0.0100	0.009646	
						RPD = 1.99	
8 beta-BHC							
1	3.270	3.267	0.003	194226	0.0100	0.009622	
2	3.867	3.863	0.004	140907	0.0100	0.009780	
						RPD = 1.62	
9 delta-BHC							
1	3.423	3.420	0.003	482768	0.0100	0.009807	
2	4.177	4.177	0.000	324630	0.0100	0.009740	
						RPD = 0.68	
11 Heptachlor							
1	3.610	3.607	0.003	483523	0.0100	0.0101	
2	4.260	4.260	0.000	321573	0.0100	0.009897	
						RPD = 1.91	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	473477	0.0100	0.0100	
2	4.610	4.610	0.000	311120	0.0100	0.009679	
						RPD = 2.87	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	431108	0.0100	0.0101	
2	5.213	5.213	0.000	262983	0.0100	0.009787	
						RPD = 3.58	
16 gamma-Chlordane							
1	4.607	4.607	0.000	447907	0.0100	0.009701	
2	5.413	5.413	0.000	270450	0.0100	0.009734	
						RPD = 0.34	
17 alpha-Chlordane							
1	4.740	4.740	0.000	418316	0.0100	0.009754	
2	5.567	5.567	0.000	239641	0.0100	0.009613	
						RPD = 1.46	
18 4,4'-DDE							
1	4.827	4.823	0.004	396422	0.0100	0.009736	
2	5.727	5.727	0.000	251350	0.0100	0.009691	
						RPD = 0.46	
19 Endosulfan I							
1	4.880	4.877	0.003	389280	0.0100	0.0102	
2	5.633	5.633	0.000	235549	0.0100	0.009860	
						RPD = 3.77	
21 Dieldrin							
1	5.127	5.123	0.004	410766	0.0100	0.0099	
2	5.920	5.920	0.000	264749	0.0100	0.009813	
						RPD = 1.00	
23 Endrin							
1	5.363	5.360	0.003	411532	0.0100	0.0101	
2	6.240	6.240	0.000	244764	0.0100	0.009790	
						RPD = 2.73	
24 4,4'-DDD							
1	5.443	5.440	0.003	320289	0.0100	0.009761	
2	6.333	6.333	0.000	188277	0.0100	0.009546	
						RPD = 2.23	
27 Endosulfan II							
1	5.593	5.590	0.003	362479	0.0100	0.0103	
2	6.457	6.457	0.000	215751	0.0100	0.009798	
						RPD = 4.60	
28 4,4'-DDT							
1	5.730	5.730	0.000	327862	0.0100	0.009620	
2	6.657	6.657	0.000	171206	0.0100	0.009414	
						RPD = 2.17	
29 Endrin aldehyde							
1	6.023	6.023	0.000	293235	0.0100	0.0100	
2	6.800	6.803	-0.003	168699	0.0100	0.009856	
						RPD = 1.82	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.240	6.240	0.000	158894	0.0100	0.0099	
2	7.347	7.347	0.000	79767	0.0100	0.009552	
						RPD = 4.03	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	321289	0.0100	0.0100	
2	7.087	7.087	0.000	185100	0.0100	0.009802	
						RPD = 2.07	
33 Endrin ketone							
1	6.757	6.757	0.000	370765	0.0100	0.0100	
2	7.637	7.637	0.000	199838	0.0100	0.009701	
						RPD = 3.24	
$ 34 DCB Decachlorobiphenyl							
1	7.783	7.787	-0.004	295097	0.0100	0.009898	
2	8.837	8.837	0.000	164949	0.0100	0.0099	
						RPD = 0.11	
S 1 BHC, Total							
1						0.0391	
2						0.0389	
						RPD = 0.47	

Reagents:

pest_cal_.01_00017	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

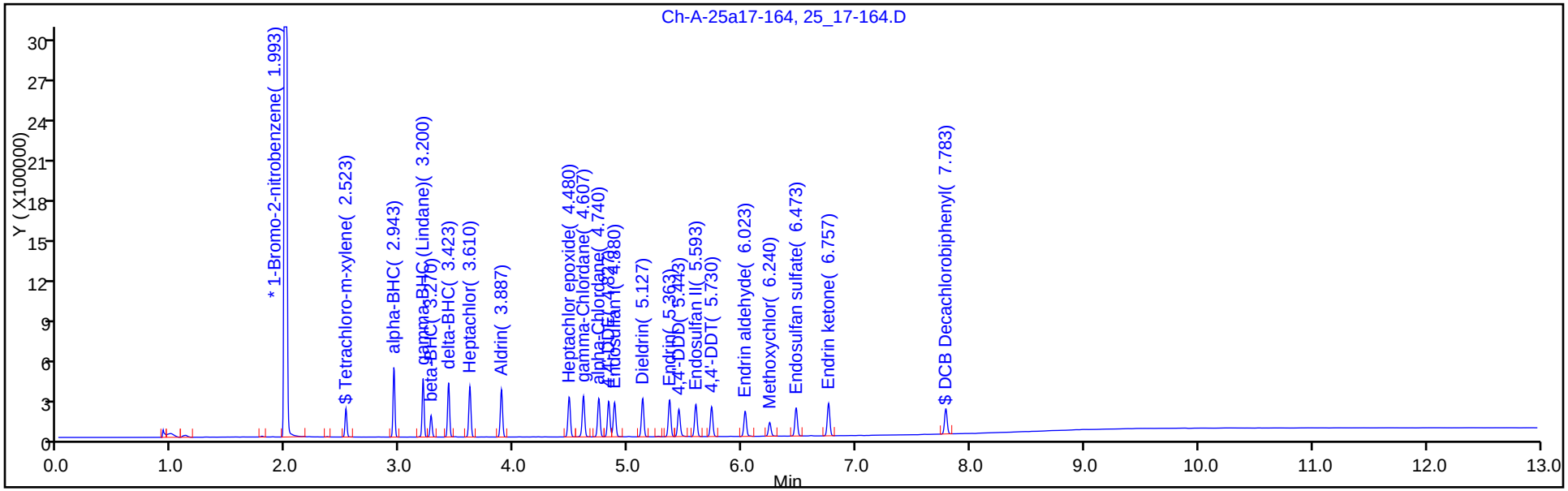
Report Date: 21-Jul-2017 07:04:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

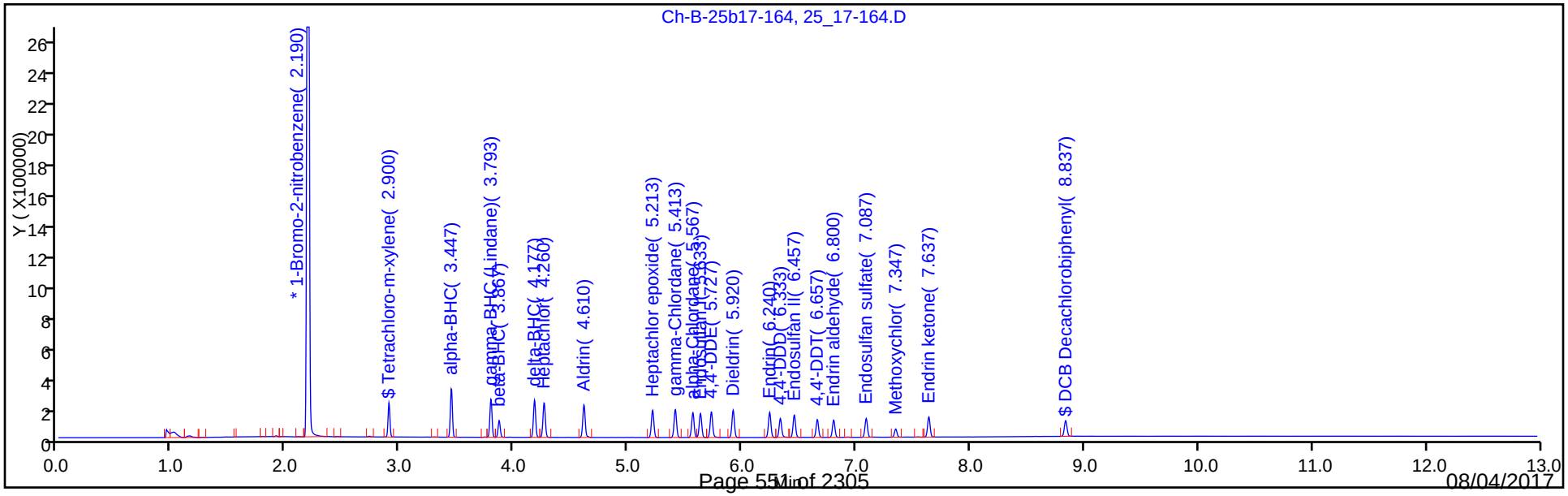
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-164.D

Injection Date:	20-Jul-2017 12:22:49	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	39
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Jul-2017 12:42:26 ALS Bottle#: 0 Worklist Smp#: 40
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 21-Jul-2017 07:04:13 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK012

First Level Reviewer: NearyM Date: 20-Jul-2017 14:15:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.993	0.000	14818153	0.5000	0.5000	
2	2.190	2.190	0.000	10630257	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.520	0.003	123780	0.005000	0.005308	
2	2.900	2.900	0.000	124318	0.005000	0.004921	
						RPD = 7.57	
6 alpha-BHC							
1	2.943	2.943	0.000	267537	0.005000	0.004835	
2	3.447	3.447	0.000	181501	0.005000	0.004896	
						RPD = 1.25	
7 gamma-BHC (Lindane)							
1	3.200	3.197	0.003	238975	0.005000	0.004852	
2	3.793	3.793	0.000	158826	0.005000	0.005021	
						RPD = 3.42	
8 beta-BHC							
1	3.270	3.267	0.003	100012	0.005000	0.005113	
2	3.867	3.863	0.004	69609	0.005000	0.004994	
						RPD = 2.35	
9 delta-BHC							
1	3.423	3.420	0.003	220922	0.005000	0.004906	
2	4.177	4.177	0.000	150253	0.005000	0.004972	
						RPD = 1.33	
11 Heptachlor							
1	3.610	3.607	0.003	231699	0.005000	0.004597	
2	4.260	4.260	0.000	155864	0.005000	0.004778	
						RPD = 3.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	224528	0.005000	0.004710	
2	4.610	4.610	0.000	158874	0.005000	0.004929	
						RPD = 4.54	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	210453	0.005000	0.004583	
2	5.213	5.213	0.000	132707	0.005000	0.004868	
						RPD = 6.04	
16 gamma-Chlordane							
1	4.607	4.607	0.000	225398	0.005000	0.004937	
2	5.410	5.413	-0.003	128866	0.005000	0.004956	
						RPD = 0.39	
17 alpha-Chlordane							
1	4.743	4.740	0.003	204326	0.005000	0.004910	
2	5.567	5.567	0.000	119899	0.005000	0.005109	
						RPD = 3.98	
18 4,4'-DDE							
1	4.830	4.823	0.007	184289	0.005000	0.004890	
2	5.730	5.727	0.003	120388	0.005000	0.004979	
						RPD = 1.79	
19 Endosulfan I							
1	4.880	4.877	0.003	183357	0.005000	0.004561	
2	5.633	5.633	0.000	116164	0.005000	0.004830	
						RPD = 5.73	
21 Dieldrin							
1	5.127	5.123	0.004	199150	0.005000	0.004759	
2	5.920	5.920	0.000	126988	0.005000	0.004864	
						RPD = 2.18	
23 Endrin							
1	5.363	5.360	0.003	200604	0.005000	0.004611	
2	6.240	6.240	0.000	119295	0.005000	0.004883	
						RPD = 5.72	
24 4,4'-DDD							
1	5.447	5.440	0.007	146389	0.005000	0.004873	
2	6.333	6.333	0.000	91778	0.005000	0.005094	
						RPD = 4.43	
27 Endosulfan II							
1	5.593	5.590	0.003	164627	0.005000	0.004553	
2	6.457	6.457	0.000	107295	0.005000	0.004905	
						RPD = 7.45	
28 4,4'-DDT							
1	5.733	5.730	0.003	150384	0.005000	0.004981	
2	6.657	6.657	0.000	78071	0.005000	0.005216	
						RPD = 4.62	
29 Endrin aldehyde							
1	6.027	6.023	0.004	145766	0.005000	0.004712	
2	6.800	6.803	-0.003	84354	0.005000	0.004904	
						RPD = 4.00	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.243	6.240	0.003	74988	0.005000	0.004813	
2	7.343	7.347	-0.004	37096	0.005000	0.005212	
						RPD = 7.95	
32 Endosulfan sulfate							
1	6.473	6.470	0.003	157455	0.005000	0.004732	
2	7.083	7.087	-0.004	91315	0.005000	0.004964	
						RPD = 4.79	
33 Endrin ketone							
1	6.760	6.757	0.003	178126	0.005000	0.004701	
2	7.633	7.637	-0.004	96843	0.005000	0.005034	
						RPD = 6.84	
$ 34 DCB Decachlorobiphenyl							
1	7.787	7.787	0.000	152247	0.005000	0.004883	
2	8.833	8.837	-0.004	85605	0.005000	0.004922	
						RPD = 0.79	
S 1 BHC, Total							
1						0.0197	
2						0.0199	
						RPD = 0.89	

Reagents:

pest_cal_.005_00017	Amount Added: 1.00	Units: mL		
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent	

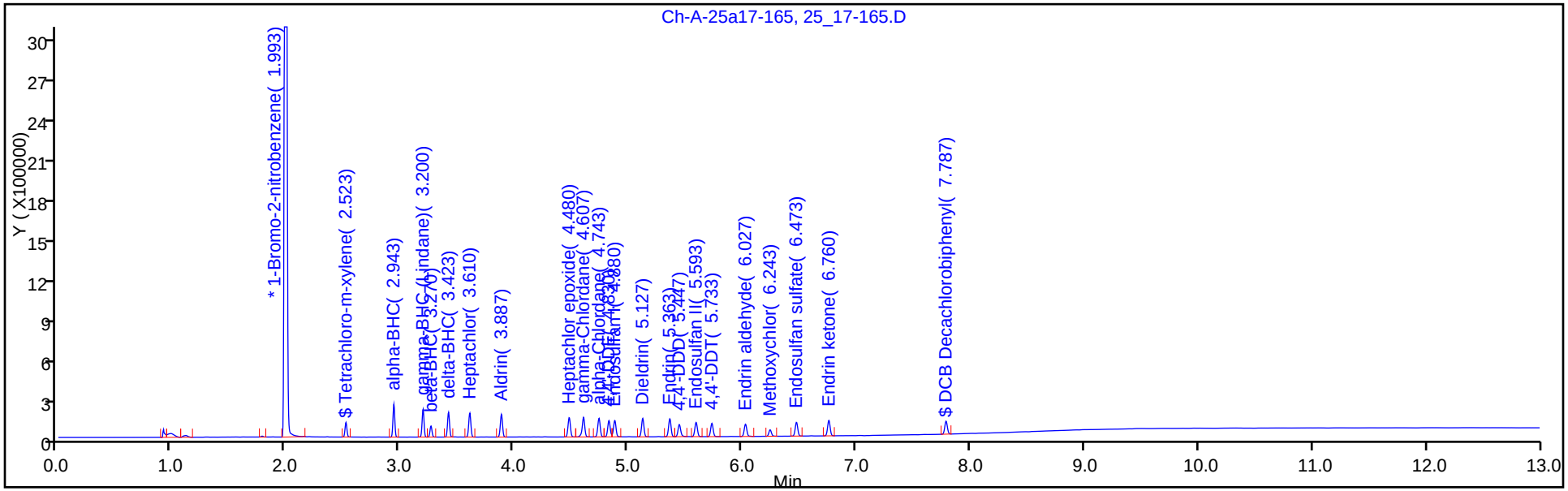
Report Date: 21-Jul-2017 07:04:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

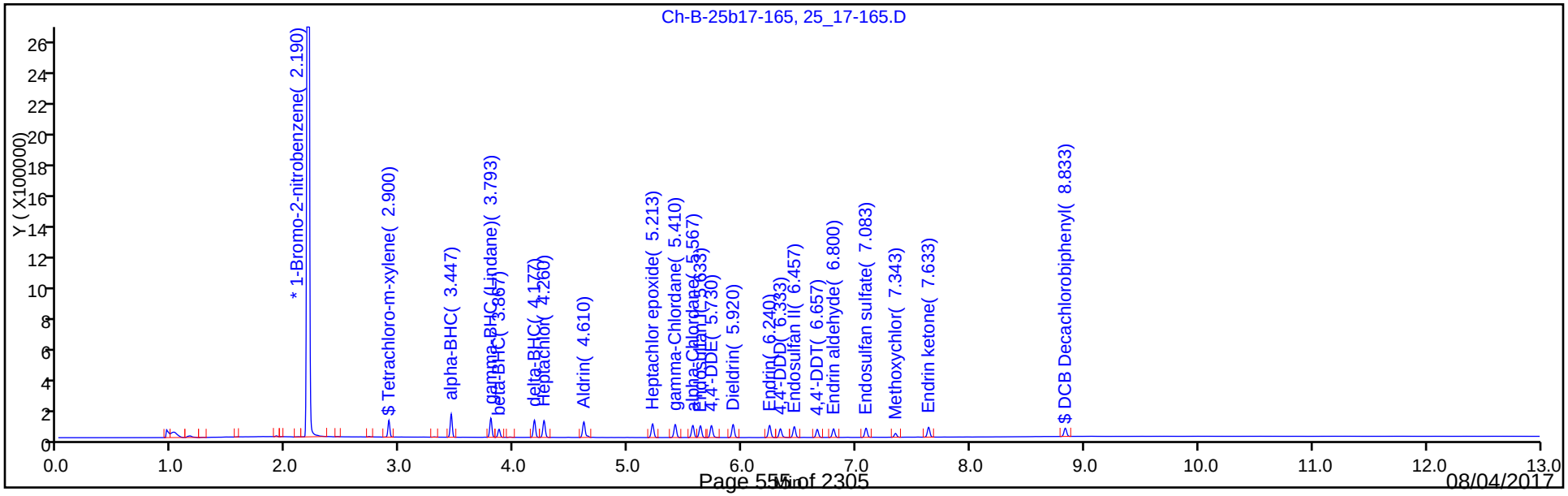
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-165.D

Injection Date:	20-Jul-2017 12:42:26	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	40
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID (1): PEM 480-368774/4 Instrument ID (1): HP6890-25

GC Column (1): RTX-CLPI ID: 0.53(mm) Date Analyzed (1): 07/26/2017 11:58

ANALYTE	RT	RESOLUTION (%)
4,4'-DDD		100.0
Tetrachloro-m-xylene	2.53	100.0
alpha-BHC	2.95	100.0
gamma-BHC (Lindane)	3.20	100.0
beta-BHC	3.27	100.0
4,4'-DDE	4.83	100.0
Endrin	5.37	100.0
4,4'-DDT	5.73	100.0
Endrin aldehyde	6.03	100.0
Methoxychlor	6.24	100.0
Endrin ketone	6.76	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID (2): PEM 480-368774/4 Instrument ID (2): HP6890-25

GC Column (2): RTX-CLPII ID: 0.53(mm) Date Analyzed (2): 07/26/2017 11:58

ANALYTE	RT	RESOLUTION (%)
4,4'-DDD		100.0
Tetrachloro-m-xylene	2.91	100.0
alpha-BHC	3.45	100.0
gamma-BHC (Lindane)	3.80	100.0
beta-BHC	3.87	100.0
4,4'-DDE	5.74	100.0
Endrin	6.25	100.0
4,4'-DDT	6.67	100.0
Endrin aldehyde	6.81	100.0
Methoxychlor	7.35	100.0
Endrin ketone	7.65	100.0

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: PEM 480-368774/4 Calibration Date: 07/26/2017 11:58

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-209.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	5.37	1855869	1.07	15	
Endrin aldehyde	6.03	4248			
Endrin ketone	6.76	15881			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	5.73	3552643	0.22	15	
4,4'-DDD		0			
4,4'-DDE	4.83	7879			

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-209.D
Lims ID: pem
Client ID:
Sample Type: PEM
Inject. Date: 26-Jul-2017 11:58:01 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub15

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:16:17 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 26-Jul-2017 13:04:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.000	1.997	0.003	13894865	0.5000	0.5000	
2	2.197	2.197	0.000	9888731	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.527	2.523	0.004	470729	0.0200	0.0183	
2	2.907	2.907	0.000	435309	0.0200	0.0175	
						RPD = 4.05	
6 alpha-BHC							
1	2.947	2.943	0.004	489706	0.0100	0.008864	
2	3.453	3.453	0.000	336947	0.0100	0.009014	
						RPD = 1.68	
7 gamma-BHC (Lindane)							
1	3.200	3.200	0.000	445509	0.0100	0.009056	
2	3.803	3.800	0.003	297807	0.0100	0.009311	
						RPD = 2.78	
8 beta-BHC							
1	3.270	3.270	0.000	163608	0.0100	0.008486	
2	3.873	3.873	0.000	117520	0.0100	0.008570	
						RPD = 0.98	
18 4,4'-DDE							
1	4.830	4.823	0.007	7879		0.001069	
2	5.737	5.733	0.004	6282		0.001132	
						RPD = 5.72	
23 Endrin							
1	5.367	5.360	0.007	1855869	0.0500	0.0482	
2	6.250	6.247	0.003	1184598	0.0500	0.0473	
						RPD = 1.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 4,4'-DDT							
1	5.733	5.727	0.006	3552643	0.1000	0.0955	
2	6.667	6.663	0.004	2140598	0.1000	0.0997	
						RPD = 4.33	
29 Endrin aldehyde							
1	6.030	6.023	0.007	4248		-0.000123	
2	6.810	6.807	0.003	5699		0.000595	
						RPD = 304.45	
30 Methoxychlor							
1	6.240	6.237	0.003	3643086	0.2500	0.2263	E
2	7.353	7.350	0.003	2516128	0.2500	0.2609	E
						RPD = 14.20	
33 Endrin ketone							
1	6.760	6.753	0.007	15881		0.000474	
2	7.647	7.640	0.007	9000		0.001321	
						RPD = 94.33	
$ 34 DCB Decachlorobiphenyl							
1	7.790	7.783	0.007	524807	0.0200	0.0184	
2	8.843	8.840	0.003	337632	0.0200	0.0212	
						RPD = 14.25	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PEST_PEM_00142	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

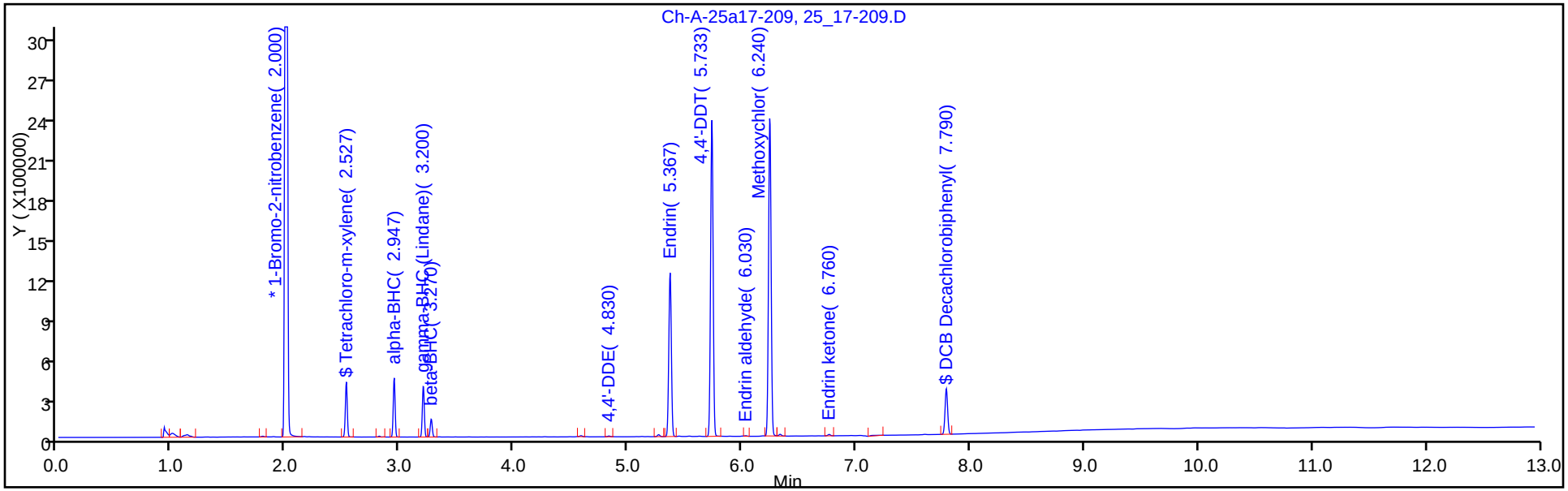
Report Date: 27-Jul-2017 11:17:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

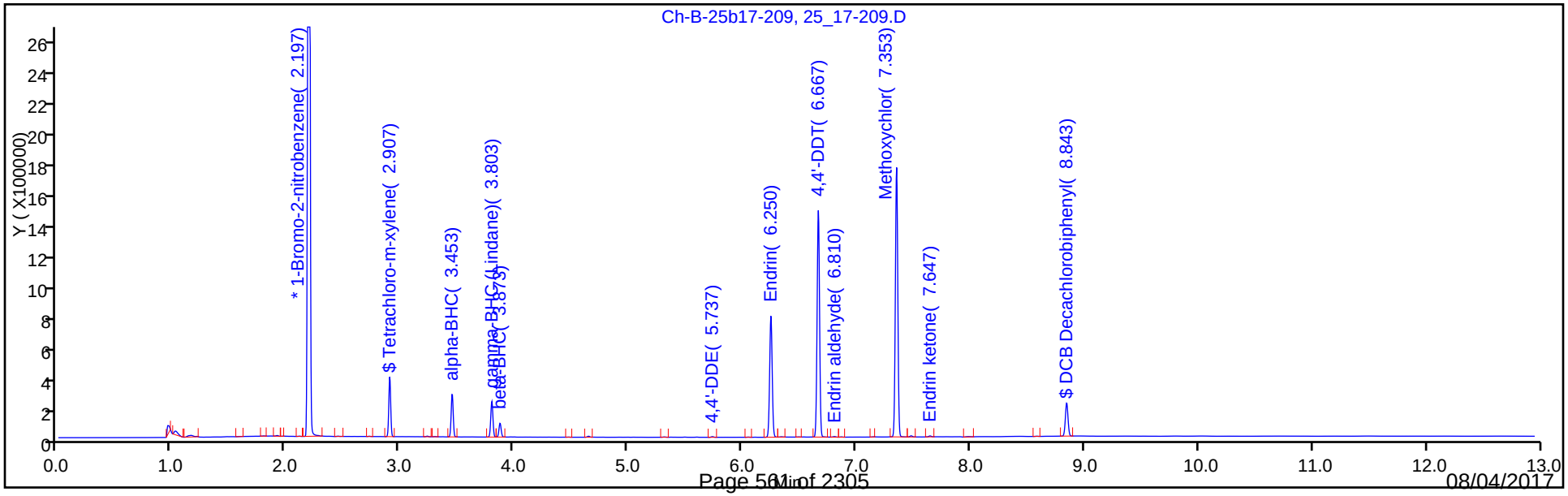
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-209.D

Injection Date:	26-Jul-2017 11:58:01	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	pem			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: PEM 480-368774/4 Calibration Date: 07/26/2017 11:58

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-209.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	6.25	1184598	1.23	15	
Endrin aldehyde	6.81	5699			
Endrin ketone	7.65	9000			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	6.67	2140598	0.29	15	
4,4'-DDD		0			
4,4'-DDE	5.74	6282			

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-209.D
Lims ID: pem
Client ID:
Sample Type: PEM
Inject. Date: 26-Jul-2017 11:58:01 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub15

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:16:17 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 26-Jul-2017 13:04:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.000	1.997	0.003	13894865	0.5000	0.5000	
2	2.197	2.197	0.000	9888731	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.527	2.523	0.004	470729	0.0200	0.0183	
2	2.907	2.907	0.000	435309	0.0200	0.0175	
						RPD = 4.05	
6 alpha-BHC							
1	2.947	2.943	0.004	489706	0.0100	0.008864	
2	3.453	3.453	0.000	336947	0.0100	0.009014	
						RPD = 1.68	
7 gamma-BHC (Lindane)							
1	3.200	3.200	0.000	445509	0.0100	0.009056	
2	3.803	3.800	0.003	297807	0.0100	0.009311	
						RPD = 2.78	
8 beta-BHC							
1	3.270	3.270	0.000	163608	0.0100	0.008486	
2	3.873	3.873	0.000	117520	0.0100	0.008570	
						RPD = 0.98	
18 4,4'-DDE							
1	4.830	4.823	0.007	7879		0.001069	
2	5.737	5.733	0.004	6282		0.001132	
						RPD = 5.72	
23 Endrin							
1	5.367	5.360	0.007	1855869	0.0500	0.0482	
2	6.250	6.247	0.003	1184598	0.0500	0.0473	
						RPD = 1.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 4,4'-DDT							
1	5.733	5.727	0.006	3552643	0.1000	0.0955	
2	6.667	6.663	0.004	2140598	0.1000	0.0997	
						RPD = 4.33	
29 Endrin aldehyde							
1	6.030	6.023	0.007	4248		-0.000123	
2	6.810	6.807	0.003	5699		0.000595	
						RPD = 304.45	
30 Methoxychlor							
1	6.240	6.237	0.003	3643086	0.2500	0.2263	E
2	7.353	7.350	0.003	2516128	0.2500	0.2609	E
						RPD = 14.20	
33 Endrin ketone							
1	6.760	6.753	0.007	15881		0.000474	
2	7.647	7.640	0.007	9000		0.001321	
						RPD = 94.33	
$ 34 DCB Decachlorobiphenyl							
1	7.790	7.783	0.007	524807	0.0200	0.0184	
2	8.843	8.840	0.003	337632	0.0200	0.0212	
						RPD = 14.25	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PEST_PEM_00142	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

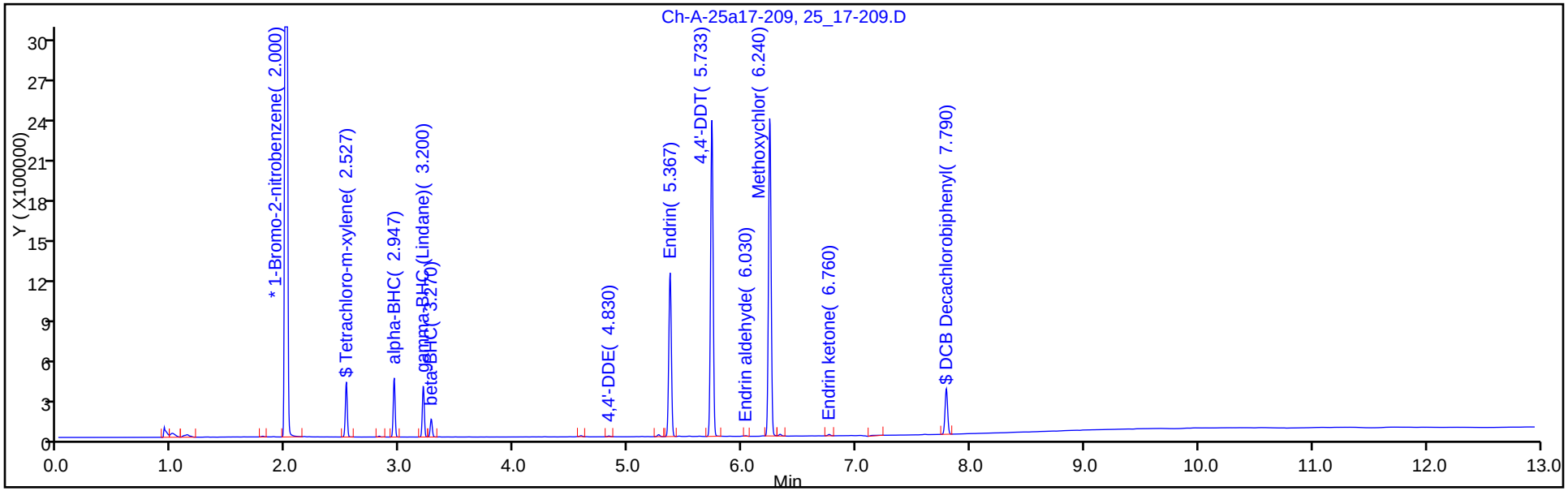
Report Date: 27-Jul-2017 11:17:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

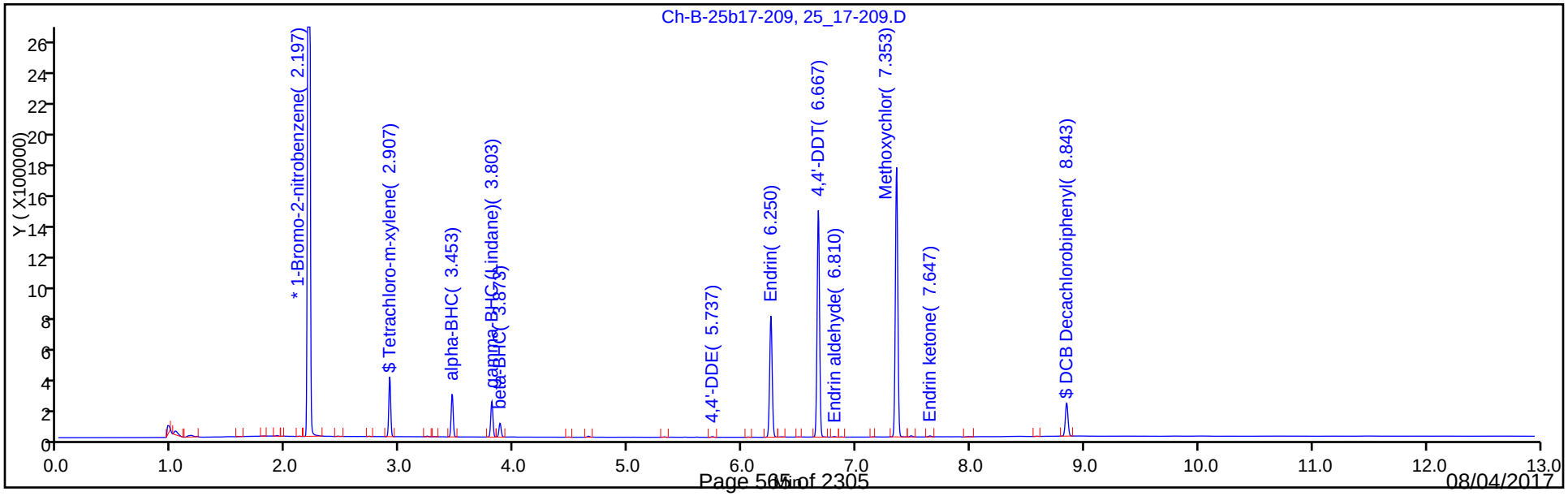
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-209.D

Injection Date:	26-Jul-2017 11:58:01	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	pem			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368774/5 Calibration Date: 07/26/2017 12:17

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-210.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		2.117		0.0502	0.0500	0.4	20.0
gamma-BHC (Lindane)	Lin1		1.875		0.0501	0.0500	0.1	20.0
beta-BHC	Lin1		0.7333		0.0498	0.0500	-0.4	20.0
delta-BHC	Lin1		1.867		0.0503	0.0500	0.5	20.0
Heptachlor	Lin1		1.715		0.0524	0.0500	4.8	20.0
Aldrin	Lin1		1.690		0.0504	0.0500	0.8	20.0
Heptachlor epoxide	Lin1		1.461		0.0513	0.0500	2.7	20.0
gamma-Chlordane	Lin1		1.612		0.0488	0.0500	-2.3	20.0
alpha-Chlordane	Lin1		1.522		0.0490	0.0500	-2.0	20.0
4,4'-DDE	Lin1		1.524		0.0500	0.0500	-0.0	20.0
Endosulfan I	Lin1		1.306		0.0505	0.0500	0.9	20.0
Dieldrin	Lin1		1.492		0.0513	0.0500	2.5	20.0
Endrin	Lin1		1.424		0.0514	0.0500	2.9	20.0
4,4'-DDD	Lin1		1.239		0.0501	0.0500	0.1	20.0
Endosulfan II	Lin1		1.242		0.0506	0.0500	1.1	20.0
4,4'-DDT	Lin1		1.344		0.0508	0.0500	1.5	20.0
Endrin aldehyde	Lin1		0.996		0.0503	0.0500	0.5	20.0
Methoxychlor	Lin1		0.6047		0.0525	0.0500	5.1	20.0
Endosulfan sulfate	Lin1		1.113		0.0503	0.0500	0.6	20.0
Endrin ketone	Lin1		1.318		0.0513	0.0500	2.5	20.0
Tetrachloro-m-xylene	Lin1		1.018		0.0528	0.0500	5.5	20.0
DCB Decachlorobiphenyl	Lin1		0.9268		0.0454	0.0500	-9.1	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368774/5 Calibration Date: 07/26/2017 12:17

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-210.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	2.94	2.92	2.97
gamma-BHC (Lindane)	3.20	3.18	3.23
beta-BHC	3.27	3.25	3.30
delta-BHC	3.42	3.40	3.45
Heptachlor	3.61	3.59	3.64
Aldrin	3.89	3.86	3.91
Heptachlor epoxide	4.48	4.46	4.51
gamma-Chlordane	4.61	4.58	4.63
alpha-Chlordane	4.74	4.72	4.77
4,4'-DDE	4.82	4.80	4.85
Endosulfan I	4.88	4.86	4.91
Dieldrin	5.12	5.10	5.15
Endrin	5.36	5.34	5.39
4,4'-DDD	5.44	5.42	5.47
Endosulfan II	5.59	5.57	5.62
4,4'-DDT	5.73	5.70	5.75
Endrin aldehyde	6.02	6.00	6.05
Methoxychlor	6.24	6.21	6.26
Endosulfan sulfate	6.47	6.45	6.50
Endrin ketone	6.75	6.73	6.78
Tetrachloro-m-xylene	2.52	2.50	2.55
DCB Decachlorobiphenyl	7.78	7.76	7.81

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-210.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Jul-2017 12:17:44 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:13 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.997	0.000	14110937	0.5000	0.5000	
2	2.197	2.197	0.000	10056340	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.523	0.000	1436356	0.0500	0.0528	
2	2.907	2.907	0.000	1290672	0.0500	0.0505	
						RPD = 4.42	
6 alpha-BHC							
1	2.943	2.943	0.000	2986811	0.0500	0.0502	
2	3.453	3.453	0.000	2085957	0.0500	0.0510	
						RPD = 1.57	
7 gamma-BHC (Lindane)							
1	3.200	3.200	0.000	2645927	0.0500	0.0501	
2	3.800	3.800	0.000	1795760	0.0500	0.0513	
						RPD = 2.41	
8 beta-BHC							
1	3.270	3.270	0.000	1034726	0.0500	0.0498	
2	3.873	3.873	0.000	738718	0.0500	0.0498	
						RPD = 0.05	
9 delta-BHC							
1	3.423	3.423	0.000	2634665	0.0500	0.0503	
2	4.183	4.183	0.000	1816682	0.0500	0.0506	
						RPD = 0.66	
11 Heptachlor							
1	3.610	3.610	0.000	2419649	0.0500	0.0524	
2	4.267	4.267	0.000	1713186	0.0500	0.0528	
						RPD = 0.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	2384223	0.0500	0.0504	
2	4.617	4.617	0.000	1635297	0.0500	0.0508	
						RPD = 0.87	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	2061861	0.0500	0.0513	
2	5.220	5.220	0.000	1372651	0.0500	0.0516	
						RPD = 0.43	
16 gamma-Chlordane							
1	4.607	4.607	0.000	2274840	0.0500	0.0488	
2	5.417	5.417	0.000	1452953	0.0500	0.0496	
						RPD = 1.64	
17 alpha-Chlordane							
1	4.740	4.740	0.000	2148061	0.0500	0.0490	
2	5.570	5.570	0.000	1333381	0.0500	0.0506	
						RPD = 3.30	
18 4,4'-DDE							
1	4.823	4.823	0.000	2150982	0.0500	0.0500	
2	5.733	5.733	0.000	1375768	0.0500	0.0501	
						RPD = 0.35	
19 Endosulfan I							
1	4.880	4.880	0.000	1842430	0.0500	0.0505	
2	5.637	5.637	0.000	1214990	0.0500	0.0511	
						RPD = 1.16	
21 Dieldrin							
1	5.123	5.123	0.000	2105976	0.0500	0.0513	
2	5.923	5.923	0.000	1409911	0.0500	0.0509	
						RPD = 0.65	
23 Endrin							
1	5.360	5.360	0.000	2009464	0.0500	0.0514	
2	6.247	6.247	0.000	1304227	0.0500	0.0512	
						RPD = 0.51	
24 4,4'-DDD							
1	5.440	5.440	0.000	1747812	0.0500	0.0501	
2	6.337	6.337	0.000	1074726	0.0500	0.0504	
						RPD = 0.62	
27 Endosulfan II							
1	5.590	5.590	0.000	1752851	0.0500	0.0506	
2	6.460	6.460	0.000	1129233	0.0500	0.0509	
						RPD = 0.67	
28 4,4'-DDT							
1	5.727	5.727	0.000	1895812	0.0500	0.0508	
2	6.663	6.663	0.000	1119595	0.0500	0.0522	
						RPD = 2.80	
29 Endrin aldehyde							
1	6.023	6.023	0.000	1405728	0.0500	0.0503	
2	6.807	6.807	0.000	860833	0.0500	0.0504	
						RPD = 0.26	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.237	6.237	0.000	853330	0.0500	0.0525	
2	7.350	7.350	0.000	521415	0.0500	0.0545	
						RPD = 3.62	
32 Endosulfan sulfate							
1	6.470	6.470	0.000	1570431	0.0500	0.0503	
2	7.090	7.090	0.000	977599	0.0500	0.0506	
						RPD = 0.60	
33 Endrin ketone							
1	6.753	6.753	0.000	1860413	0.0500	0.0513	
2	7.640	7.640	0.000	1093097	0.0500	0.0501	
						RPD = 2.24	
$ 34 DCB Decachlorobiphenyl							
1	7.783	7.783	0.000	1307865	0.0500	0.0454	
2	8.840	8.840	0.000	827068	0.0500	0.0513	
						RPD = 12.16	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

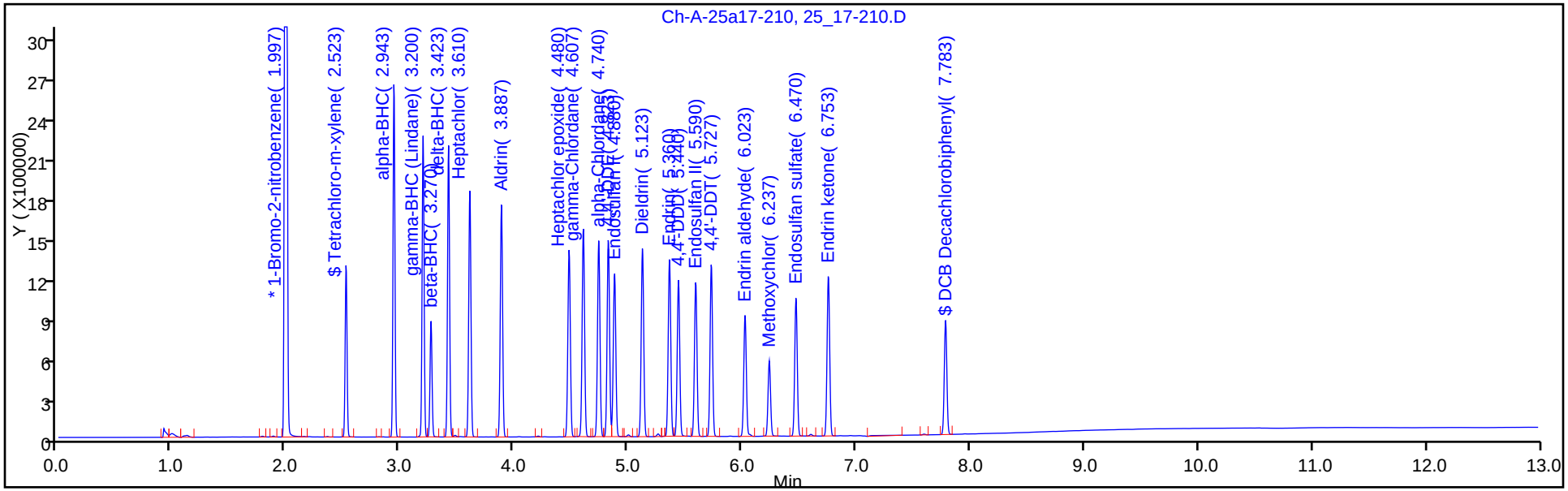
Report Date: 27-Jul-2017 11:17:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

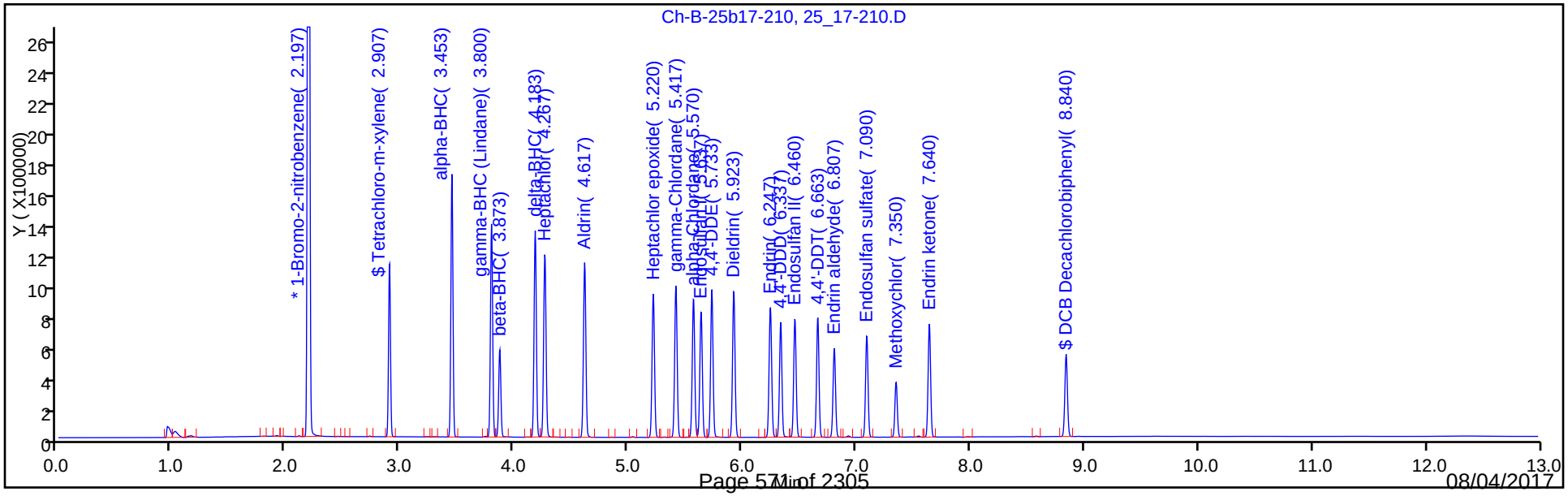
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-210.D

Injection Date:	26-Jul-2017 12:17:44	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccvis			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368774/5 Calibration Date: 07/26/2017 12:17

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-210.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		2.074		0.0510	0.0500	2.0	20.0
gamma-BHC (Lindane)	Lin1		1.786		0.0513	0.0500	2.6	20.0
beta-BHC	Lin1		0.7346		0.0498	0.0500	-0.4	20.0
delta-BHC	Lin1		1.807		0.0506	0.0500	1.2	20.0
Heptachlor	Lin1		1.704		0.0528	0.0500	5.7	20.0
Aldrin	Lin1		1.626		0.0508	0.0500	1.7	20.0
Heptachlor epoxide	Lin1		1.365		0.0516	0.0500	3.1	20.0
gamma-Chlordane	Lin1		1.445		0.0496	0.0500	-0.7	20.0
alpha-Chlordane	Lin1		1.326		0.0506	0.0500	1.2	20.0
Endosulfan I	Lin1		1.208		0.0511	0.0500	2.1	20.0
4,4'-DDE	Lin1		1.368		0.0501	0.0500	0.3	20.0
Dieldrin	Lin1		1.402		0.0509	0.0500	1.9	20.0
Endrin	Lin1		1.297		0.0512	0.0500	2.3	20.0
4,4'-DDD	Lin1		1.069		0.0504	0.0500	0.7	20.0
Endosulfan II	Lin1		1.123		0.0509	0.0500	1.8	20.0
4,4'-DDT	Lin1		1.113		0.0522	0.0500	4.4	20.0
Endrin aldehyde	Lin1		0.8560		0.0504	0.0500	0.8	20.0
Endosulfan sulfate	Lin1		0.9721		0.0506	0.0500	1.2	20.0
Methoxychlor	Lin1		0.5185		0.0545	0.0500	9.0	20.0
Endrin ketone	Lin1		1.087		0.0501	0.0500	0.3	20.0
Tetrachloro-m-xylene	Lin1		1.283		0.0505	0.0500	1.0	20.0
DCB Decachlorobiphenyl	Lin1		0.8224		0.0513	0.0500	2.7	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368774/5 Calibration Date: 07/26/2017 12:17

Instrument ID: HP6890-25 Calib Start Date: 07/20/2017 11:23

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 07/20/2017 12:42

Lab File ID: 25_17-210.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	3.45	3.43	3.48
gamma-BHC (Lindane)	3.80	3.78	3.83
beta-BHC	3.87	3.85	3.90
delta-BHC	4.18	4.16	4.21
Heptachlor	4.27	4.24	4.29
Aldrin	4.62	4.59	4.64
Heptachlor epoxide	5.22	5.20	5.25
gamma-Chlordane	5.42	5.39	5.44
alpha-Chlordane	5.57	5.55	5.60
Endosulfan I	5.64	5.61	5.66
4,4'-DDE	5.73	5.71	5.76
Dieldrin	5.92	5.90	5.95
Endrin	6.25	6.22	6.27
4,4'-DDD	6.34	6.31	6.36
Endosulfan II	6.46	6.44	6.49
4,4'-DDT	6.66	6.64	6.69
Endrin aldehyde	6.81	6.78	6.83
Endosulfan sulfate	7.09	7.07	7.12
Methoxychlor	7.35	7.33	7.38
Endrin ketone	7.64	7.62	7.67
Tetrachloro-m-xylene	2.91	2.88	2.93
DCB Decachlorobiphenyl	8.84	8.82	8.87

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-210.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Jul-2017 12:17:44 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub13

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:13 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.997	0.000	14110937	0.5000	0.5000	
2	2.197	2.197	0.000	10056340	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.523	0.000	1436356	0.0500	0.0528	
2	2.907	2.907	0.000	1290672	0.0500	0.0505	
						RPD = 4.42	
6 alpha-BHC							
1	2.943	2.943	0.000	2986811	0.0500	0.0502	
2	3.453	3.453	0.000	2085957	0.0500	0.0510	
						RPD = 1.57	
7 gamma-BHC (Lindane)							
1	3.200	3.200	0.000	2645927	0.0500	0.0501	
2	3.800	3.800	0.000	1795760	0.0500	0.0513	
						RPD = 2.41	
8 beta-BHC							
1	3.270	3.270	0.000	1034726	0.0500	0.0498	
2	3.873	3.873	0.000	738718	0.0500	0.0498	
						RPD = 0.05	
9 delta-BHC							
1	3.423	3.423	0.000	2634665	0.0500	0.0503	
2	4.183	4.183	0.000	1816682	0.0500	0.0506	
						RPD = 0.66	
11 Heptachlor							
1	3.610	3.610	0.000	2419649	0.0500	0.0524	
2	4.267	4.267	0.000	1713186	0.0500	0.0528	
						RPD = 0.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.887	3.887	0.000	2384223	0.0500	0.0504	
2	4.617	4.617	0.000	1635297	0.0500	0.0508	
						RPD = 0.87	
14 Heptachlor epoxide							
1	4.480	4.480	0.000	2061861	0.0500	0.0513	
2	5.220	5.220	0.000	1372651	0.0500	0.0516	
						RPD = 0.43	
16 gamma-Chlordane							
1	4.607	4.607	0.000	2274840	0.0500	0.0488	
2	5.417	5.417	0.000	1452953	0.0500	0.0496	
						RPD = 1.64	
17 alpha-Chlordane							
1	4.740	4.740	0.000	2148061	0.0500	0.0490	
2	5.570	5.570	0.000	1333381	0.0500	0.0506	
						RPD = 3.30	
18 4,4'-DDE							
1	4.823	4.823	0.000	2150982	0.0500	0.0500	
2	5.733	5.733	0.000	1375768	0.0500	0.0501	
						RPD = 0.35	
19 Endosulfan I							
1	4.880	4.880	0.000	1842430	0.0500	0.0505	
2	5.637	5.637	0.000	1214990	0.0500	0.0511	
						RPD = 1.16	
21 Dieldrin							
1	5.123	5.123	0.000	2105976	0.0500	0.0513	
2	5.923	5.923	0.000	1409911	0.0500	0.0509	
						RPD = 0.65	
23 Endrin							
1	5.360	5.360	0.000	2009464	0.0500	0.0514	
2	6.247	6.247	0.000	1304227	0.0500	0.0512	
						RPD = 0.51	
24 4,4'-DDD							
1	5.440	5.440	0.000	1747812	0.0500	0.0501	
2	6.337	6.337	0.000	1074726	0.0500	0.0504	
						RPD = 0.62	
27 Endosulfan II							
1	5.590	5.590	0.000	1752851	0.0500	0.0506	
2	6.460	6.460	0.000	1129233	0.0500	0.0509	
						RPD = 0.67	
28 4,4'-DDT							
1	5.727	5.727	0.000	1895812	0.0500	0.0508	
2	6.663	6.663	0.000	1119595	0.0500	0.0522	
						RPD = 2.80	
29 Endrin aldehyde							
1	6.023	6.023	0.000	1405728	0.0500	0.0503	
2	6.807	6.807	0.000	860833	0.0500	0.0504	
						RPD = 0.26	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.237	6.237	0.000	853330	0.0500	0.0525	
2	7.350	7.350	0.000	521415	0.0500	0.0545	
						RPD = 3.62	
32 Endosulfan sulfate							
1	6.470	6.470	0.000	1570431	0.0500	0.0503	
2	7.090	7.090	0.000	977599	0.0500	0.0506	
						RPD = 0.60	
33 Endrin ketone							
1	6.753	6.753	0.000	1860413	0.0500	0.0513	
2	7.640	7.640	0.000	1093097	0.0500	0.0501	
						RPD = 2.24	
$ 34 DCB Decachlorobiphenyl							
1	7.783	7.783	0.000	1307865	0.0500	0.0454	
2	8.840	8.840	0.000	827068	0.0500	0.0513	
						RPD = 12.16	

Reagents:

PEST_CCV_.05_00239	Amount Added: 1.00	Units: mL	
COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

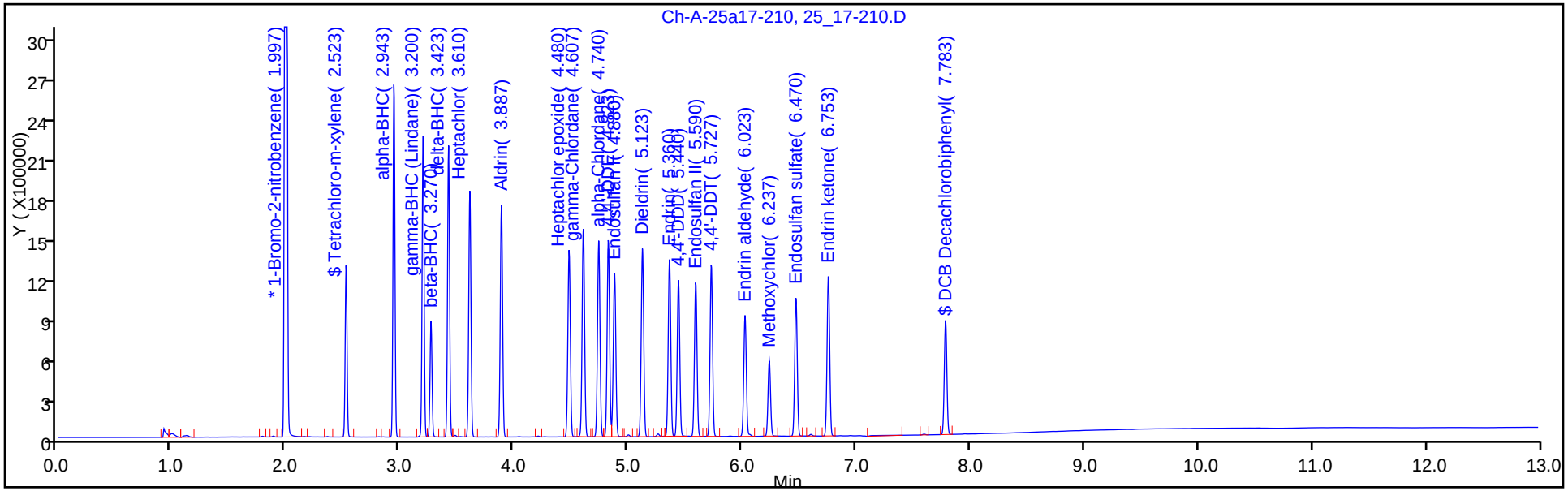
Report Date: 27-Jul-2017 11:17:13 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

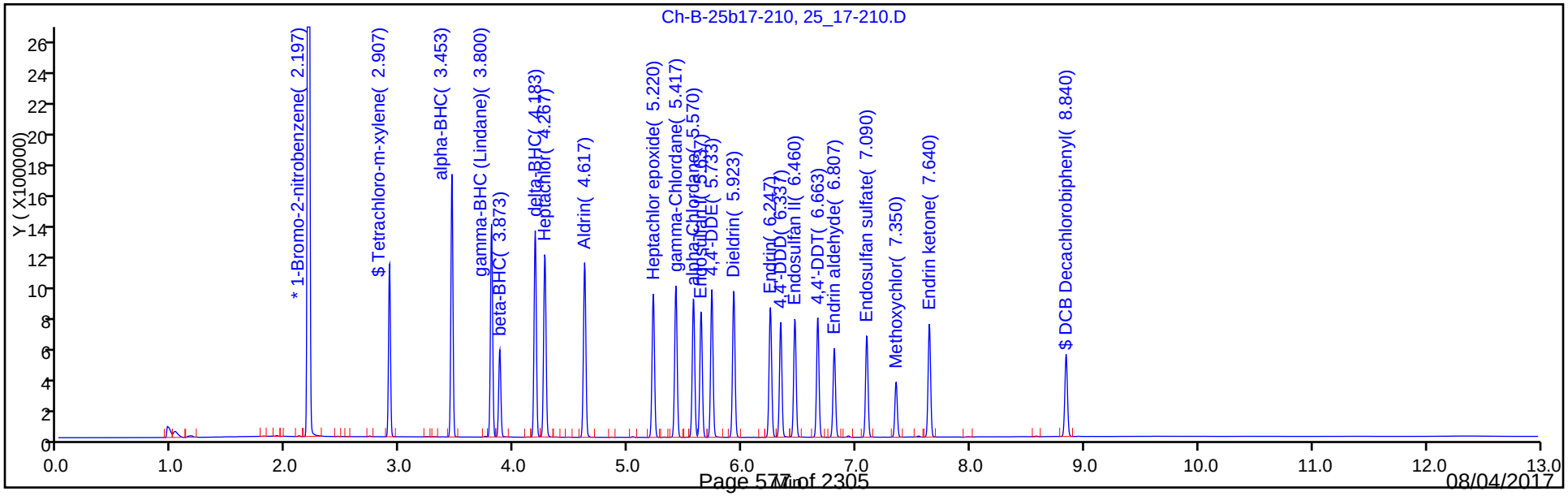
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-210.D

Injection Date:	26-Jul-2017 12:17:44	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccvis			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368774/7 Calibration Date: 07/26/2017 12:56

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-212.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Lin1		0.0536		0.527	0.500	5.5	20.0
Toxaphene Peak 2	Lin1		0.0740		0.519	0.500	3.9	20.0
Toxaphene Peak 3	Lin1		0.0406		0.537	0.500	7.5	20.0
Toxaphene Peak 4	Lin1		0.0428		0.534	0.500	6.8	20.0
Toxaphene Peak 5	Lin1		0.0393		0.513	0.500	2.6	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368774/7 Calibration Date: 07/26/2017 12:56

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-212.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	5.58	5.55	5.60
Toxaphene Peak 2	5.70	5.68	5.73
Toxaphene Peak 3	5.93	5.91	5.96
Toxaphene Peak 4	6.26	6.24	6.29
Toxaphene Peak 5	6.36	6.34	6.39

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-212.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:56:57 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:48:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.997	-0.004	13086199	0.5000	0.5000	
2	2.190	2.197	-0.007	9339986	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.577	5.577	0.000	701057	0.5000	0.5275	
1	5.700	5.700	0.000	968692	0.5000	0.5195	
1	5.930	5.930	0.000	531035	0.5000	0.5374	
1	6.263	6.263	0.000	560495	0.5000	0.5341	
1	6.363	6.363	0.000	514714	0.5000	0.5132	
		Average of Peak Amounts =				0.5263	
2	5.893	5.900	-0.007	208114	0.5000	0.5341	M
2	6.443	6.450	-0.007	289764	0.5000	0.5279	M
2	6.543	6.550	-0.007	564415	0.5000	0.5288	M
2	6.807	6.813	-0.006	337131	0.5000	0.5157	M
2	7.337	7.343	-0.006	274198	0.5000	0.5082	M
		Average of Peak Amounts =				0.5229	
						RPD = 0.64	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00101	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added:	10.00	Units: uL	Run Reagent

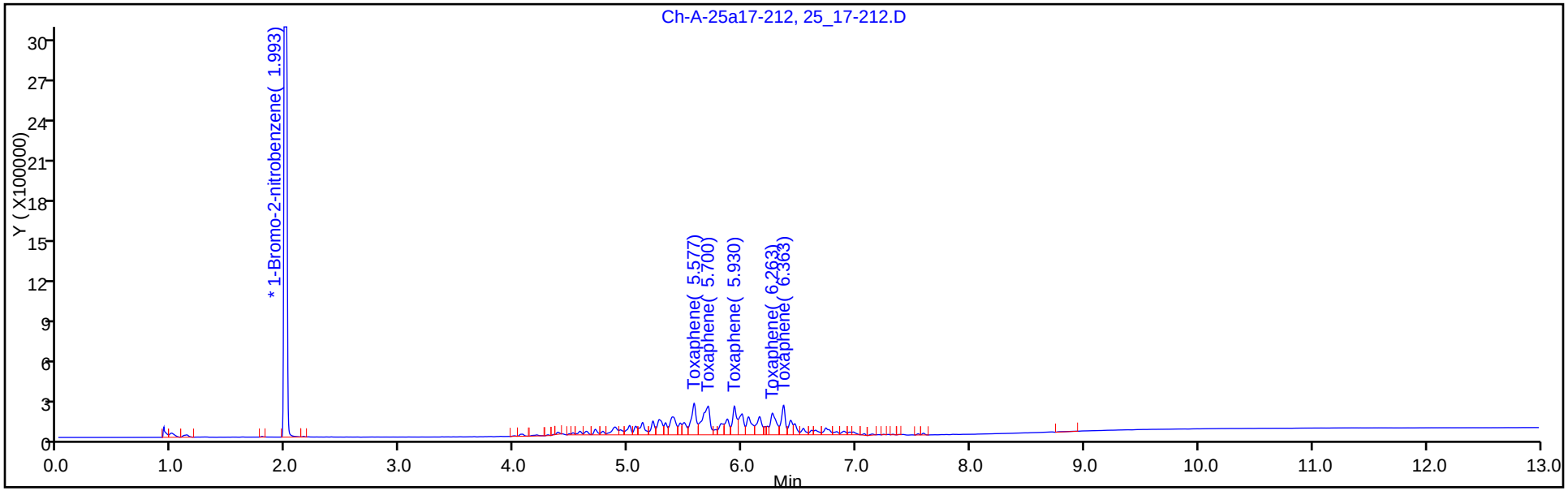
Report Date: 27-Jul-2017 11:17:18 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

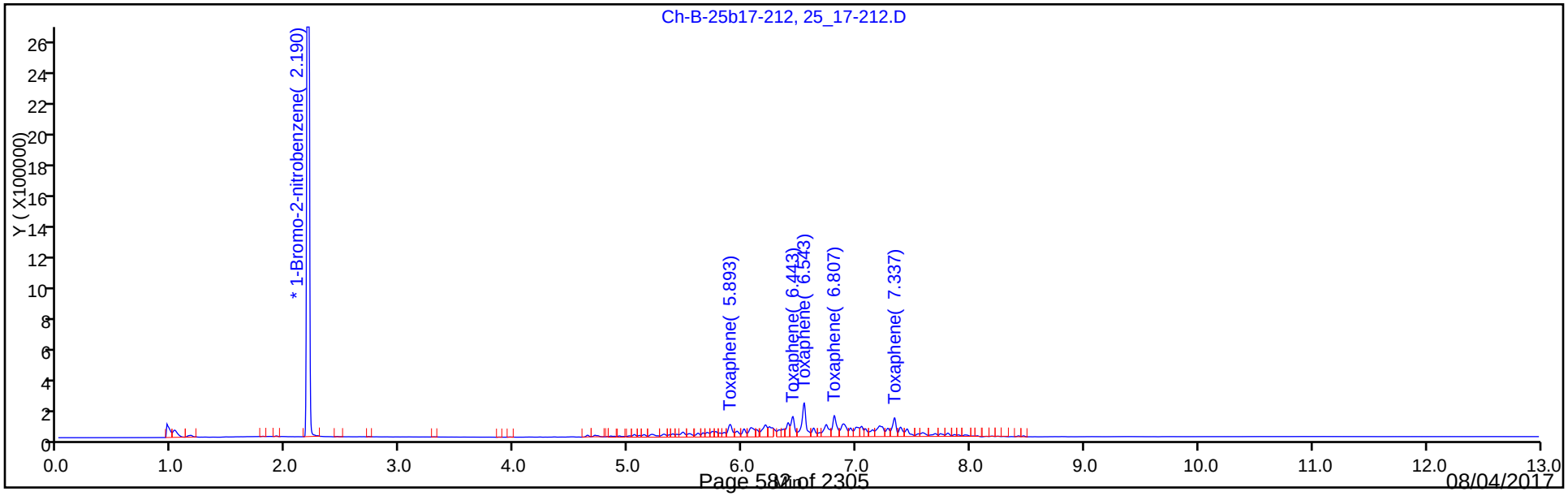
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-212.D

Injection Date:	26-Jul-2017 12:56:57	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccv			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368774/7 Calibration Date: 07/26/2017 12:56

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-212.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Lin1		0.0223		0.534	0.500	6.8	20.0
Toxaphene Peak 2	Lin1		0.0310		0.528	0.500	5.6	20.0
Toxaphene Peak 3	Lin1		0.0604		0.529	0.500	5.8	20.0
Toxaphene Peak 4	Lin1		0.0361		0.516	0.500	3.1	20.0
Toxaphene Peak 5	Lin1		0.0294		0.508	0.500	1.6	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368774/7 Calibration Date: 07/26/2017 12:56

Instrument ID: HP6890-25 Calib Start Date: 04/13/2017 14:18

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 04/13/2017 15:37

Lab File ID: 25_17-212.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	5.89	5.88	5.93
Toxaphene Peak 2	6.44	6.43	6.48
Toxaphene Peak 3	6.54	6.53	6.58
Toxaphene Peak 4	6.81	6.79	6.84
Toxaphene Peak 5	7.34	7.32	7.37

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-212.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:56:57 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25
Sublist: chrom-IS-8081*sub16

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:48:12

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.997	-0.004	13086199	0.5000	0.5000	
2	2.190	2.197	-0.007	9339986	0.5000	0.5000	
						RPD = 0.00	
26 Toxaphene							M
1	5.577	5.577	0.000	701057	0.5000	0.5275	
1	5.700	5.700	0.000	968692	0.5000	0.5195	
1	5.930	5.930	0.000	531035	0.5000	0.5374	
1	6.263	6.263	0.000	560495	0.5000	0.5341	
1	6.363	6.363	0.000	514714	0.5000	0.5132	
		Average of Peak Amounts =				0.5263	
2	5.893	5.900	-0.007	208114	0.5000	0.5341	M
2	6.443	6.450	-0.007	289764	0.5000	0.5279	M
2	6.543	6.550	-0.007	564415	0.5000	0.5288	M
2	6.807	6.813	-0.006	337131	0.5000	0.5157	M
2	7.337	7.343	-0.006	274198	0.5000	0.5082	M
		Average of Peak Amounts =				0.5229	
						RPD = 0.64	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

TOX_CCV_0.5_00101	Amount Added:	1.00	Units: mL	
COPPER_00067	Amount Added:	1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added:	10.00	Units: uL	Run Reagent

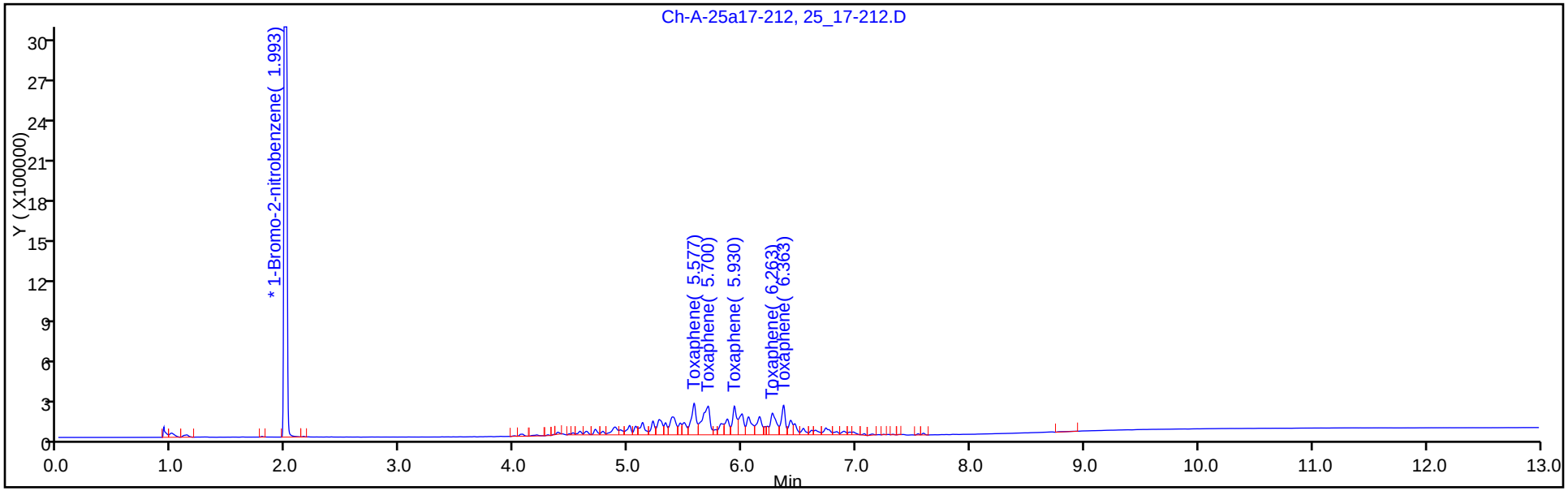
Report Date: 27-Jul-2017 11:17:20 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

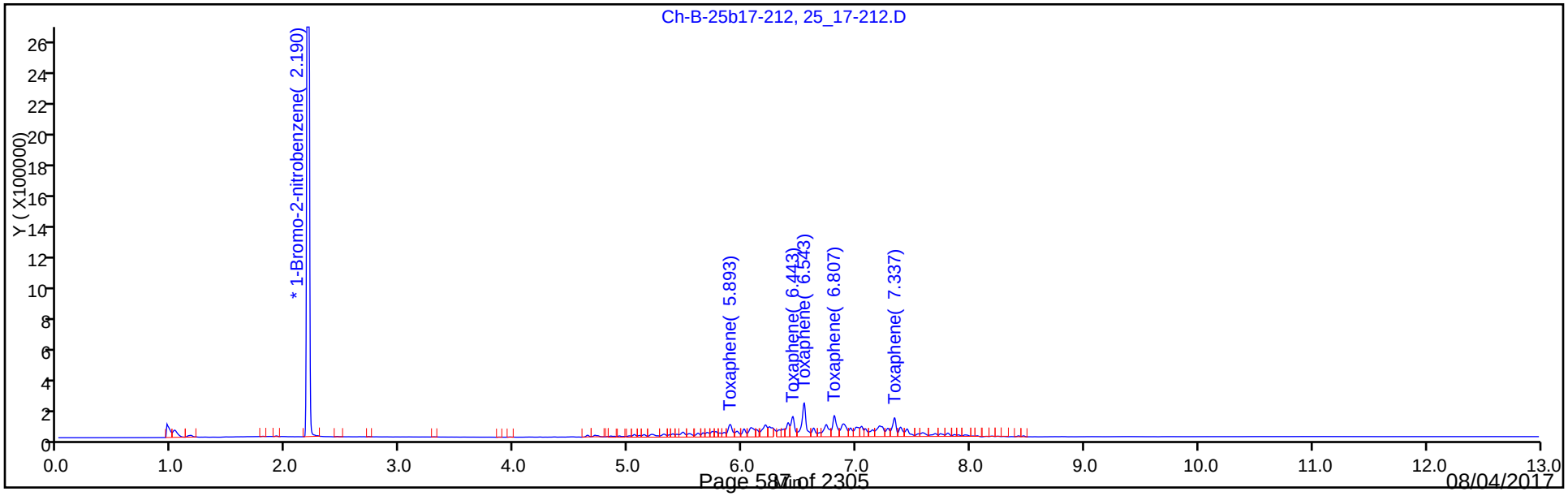
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-212.D

Injection Date:	26-Jul-2017 12:56:57	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	ccv			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 27-Jul-2017 11:17:20 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-212.D

Injection Date: 26-Jul-2017 12:56:57 Instrument ID: HP6890-25

Lims ID: ccv

Client ID:

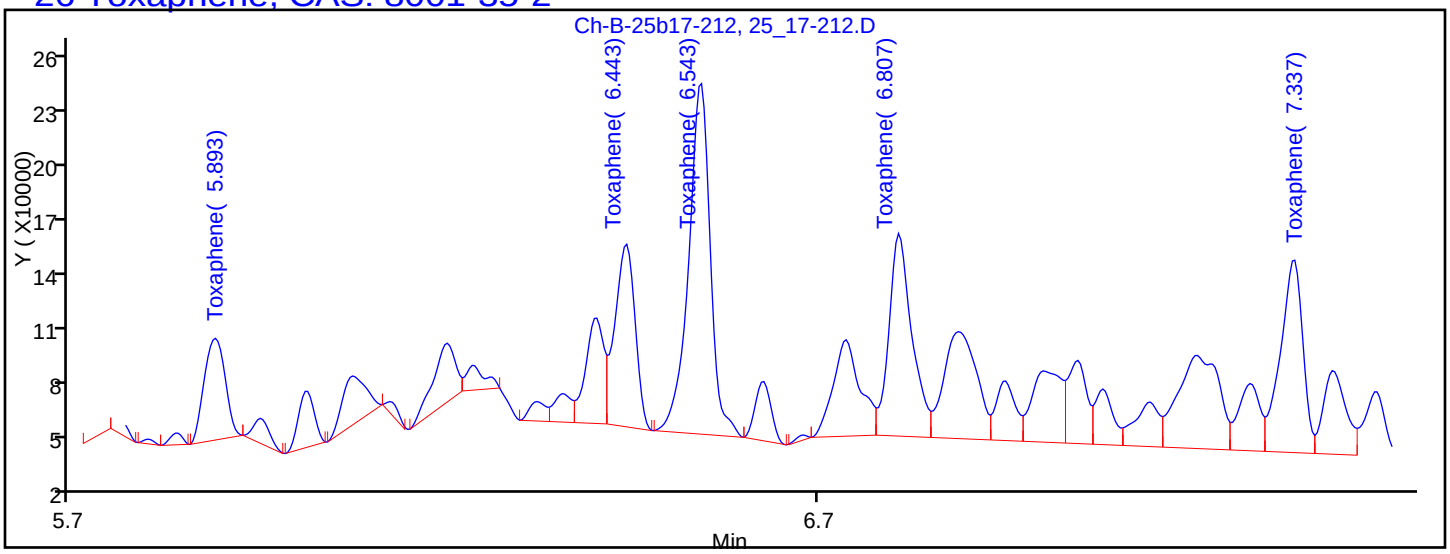
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 Limit Group: GC - 8081B IS ICAL

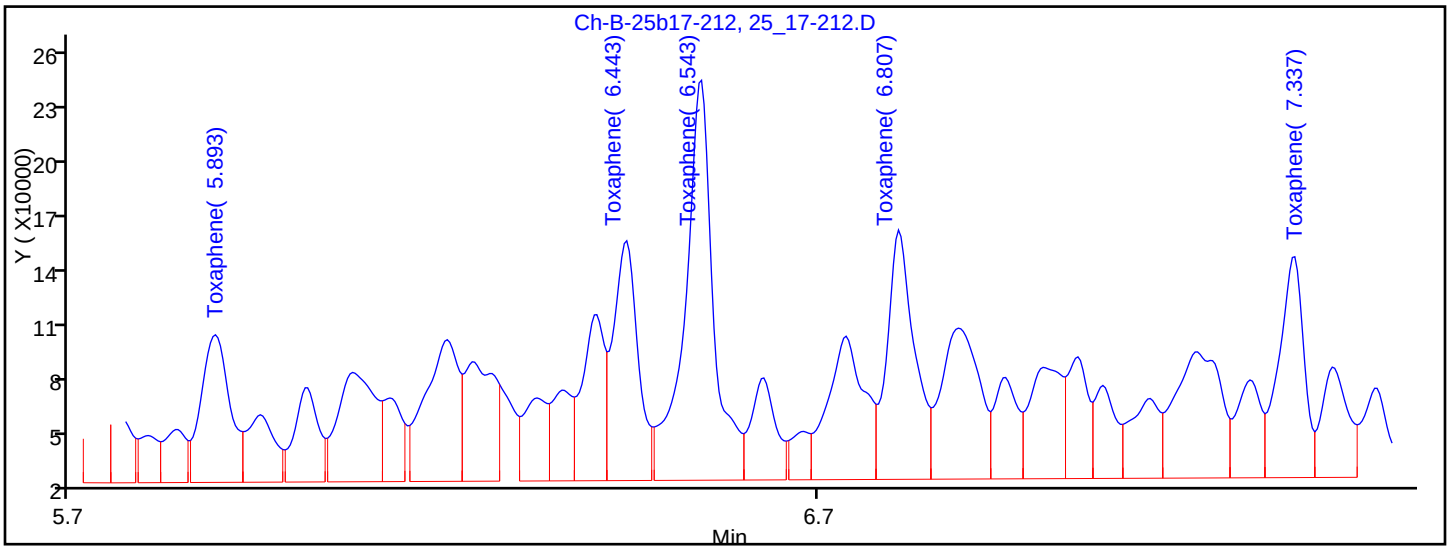
Column: Detector Ch-B-6b58132

26 Toxaphene, CAS: 8001-35-2



Processing Integration Results

5.893	Response = 105449
6.443	Response = 181444
6.543	Response = 374577
6.807	Response = 228561
7.337	Response = 213222



Manual Integration Results

5.893	Response = 208114	M
6.443	Response = 289764	M
6.543	Response = 564415	M
6.807	Response = 337131	M
7.337	Response = 274198	M

Reviewer: NearyM, 27-Jul-2017 10:48:09

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368494/1-A

Matrix: Solid | Lab File ID: 25_17-213.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.72(g) | Date Analyzed: 07/26/2017 13:16

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		1.6	0.32
72-55-9	4,4'-DDE	ND		1.6	0.34
50-29-3	4,4'-DDT	ND		1.6	0.38
309-00-2	Aldrin	ND		1.6	0.40
319-84-6	alpha-BHC	ND		1.6	0.29
5103-71-9	alpha-Chlordane	ND		1.6	0.81
319-85-7	beta-BHC	ND		1.6	0.29
319-86-8	delta-BHC	0.460	J	1.6	0.30
60-57-1	Dieldrin	ND		1.6	0.39
959-98-8	Endosulfan I	ND		1.6	0.31
33213-65-9	Endosulfan II	ND		1.6	0.29
1031-07-8	Endosulfan sulfate	ND		1.6	0.30
72-20-8	Endrin	ND		1.6	0.32
7421-93-4	Endrin aldehyde	ND		1.6	0.42
53494-70-5	Endrin ketone	ND		1.6	0.40
58-89-9	gamma-BHC (Lindane)	ND		1.6	0.30
5103-74-2	gamma-Chlordane	ND		1.6	0.52
76-44-8	Heptachlor	ND		1.6	0.35
1024-57-3	Heptachlor epoxide	ND		1.6	0.42
72-43-5	Methoxychlor	ND		1.6	0.33
8001-35-2	Toxaphene	ND		16	9.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	95		45-120
877-09-8	Tetrachloro-m-xylene	77		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-213.D
Lims ID: MB 480-368494/1-A
Client ID:
Sample Type: MB
Inject. Date: 26-Jul-2017 13:16:42 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:49:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.997	-0.004	11440789	0.5000	0.5000	
2	2.190	2.197	-0.007	8549494	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.523	-0.003	324252	0.0200	0.0155	
2	2.900	2.907	-0.007	256905	0.0200	0.0121	
						RPD = 24.47	
9 delta-BHC							
1	3.400	3.423	-0.023	19091		0.001412	
2	4.200	4.183	0.017	9453		0.001403	
						RPD = 0.60	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.783	-0.003	447930	0.0200	0.0191	
2	8.833	8.840	-0.007	287088	0.0200	0.0209	
						RPD = 8.96	
S 1 BHC, Total							
1						0.001412	
2						0.001403	
						RPD = 0.60	

Reagents:

COPPER_00067 Amount Added: 1.00 Units: Packet Run Reagent
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

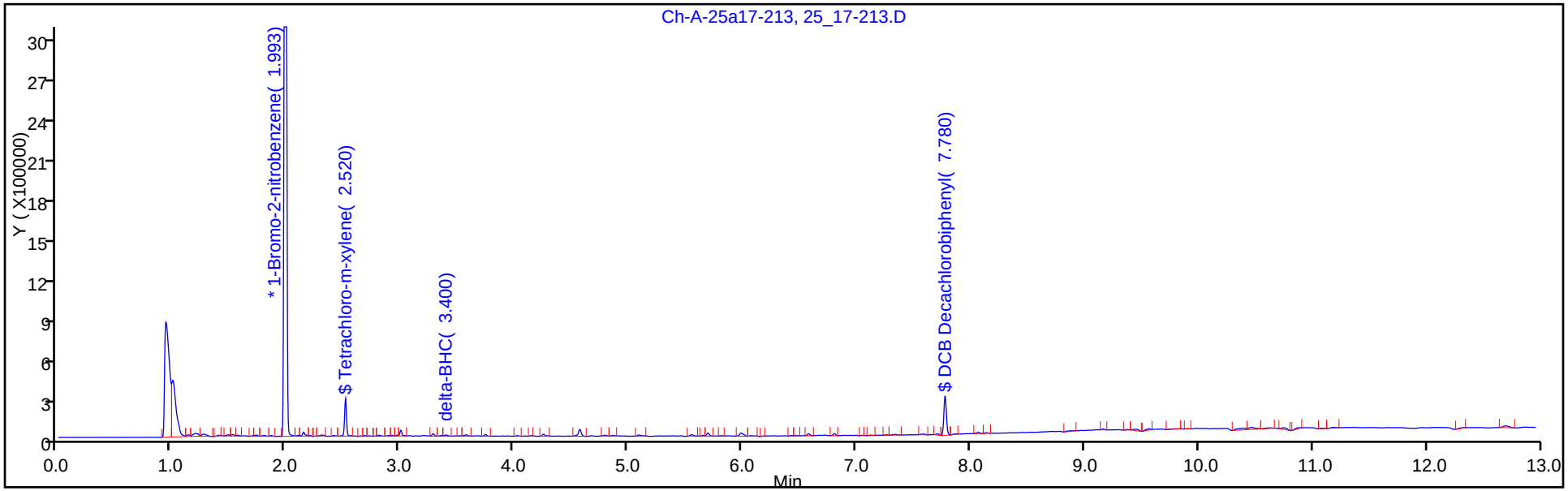
Report Date: 27-Jul-2017 11:17:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

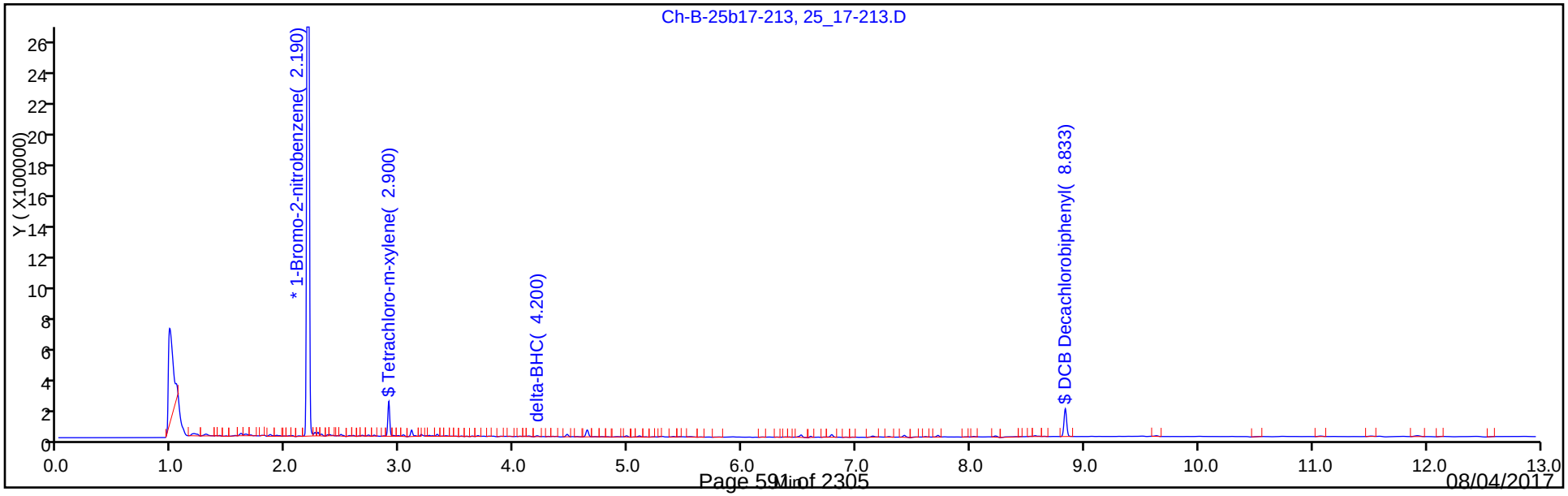
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-213.D

Injection Date:	26-Jul-2017 13:16:42	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	MB 480-368494/1-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368494/1-A

Matrix: Solid | Lab File ID: 25_17-213.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.72(g) | Date Analyzed: 07/26/2017 13:16

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	104		45-120
877-09-8	Tetrachloro-m-xylene	60		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-213.D
Lims ID: MB 480-368494/1-A
Client ID:
Sample Type: MB
Inject. Date: 26-Jul-2017 13:16:42 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:49:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.997	-0.004	11440789	0.5000	0.5000	
2	2.190	2.197	-0.007	8549494	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.523	-0.003	324252	0.0200	0.0155	
2	2.900	2.907	-0.007	256905	0.0200	0.0121	
						RPD = 24.47	
9 delta-BHC							
1	3.400	3.423	-0.023	19091		0.001412	
2	4.200	4.183	0.017	9453		0.001403	
						RPD = 0.60	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.783	-0.003	447930	0.0200	0.0191	
2	8.833	8.840	-0.007	287088	0.0200	0.0209	
						RPD = 8.96	
S 1 BHC, Total							
1						0.001412	
2						0.001403	
						RPD = 0.60	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

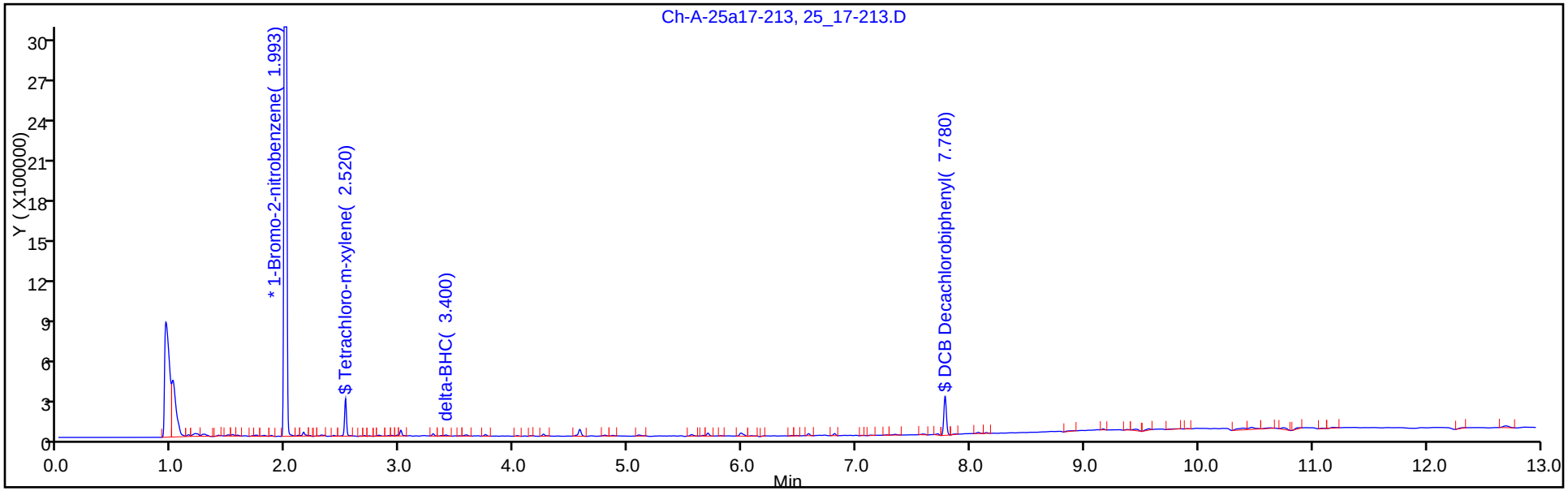
Report Date: 27-Jul-2017 11:17:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

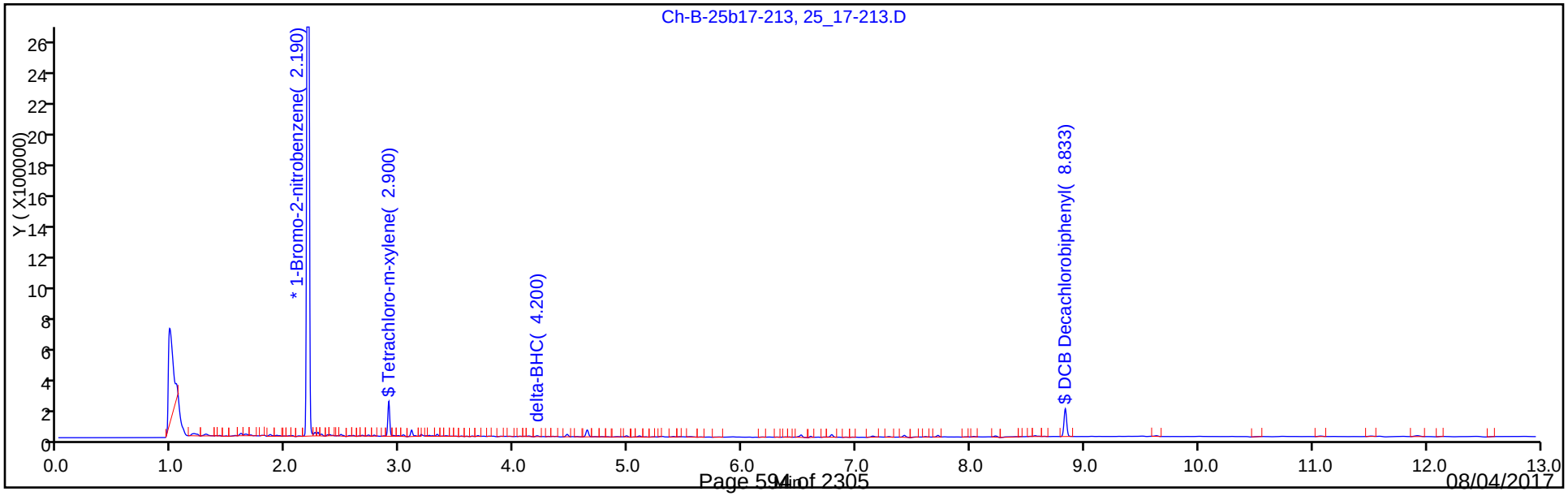
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-213.D

Injection Date:	26-Jul-2017 13:16:42	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	MB 480-368494/1-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368494/2-A

Matrix: Solid | Lab File ID: 25_17-214.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.48(g) | Date Analyzed: 07/26/2017 13:36

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	12.7		1.6	0.32
72-55-9	4,4'-DDE	12.0		1.6	0.34
50-29-3	4,4'-DDT	13.8		1.6	0.38
309-00-2	Aldrin	11.0		1.6	0.40
319-84-6	alpha-BHC	10.3		1.6	0.30
5103-71-9	alpha-Chlordane	10.0		1.6	0.82
319-85-7	beta-BHC	11.2		1.6	0.30
319-86-8	delta-BHC	11.6		1.6	0.31
60-57-1	Dieldrin	13.2		1.6	0.39
959-98-8	Endosulfan I	9.48		1.6	0.31
33213-65-9	Endosulfan II	10.5		1.6	0.30
1031-07-8	Endosulfan sulfate	17.2		1.6	0.31
72-20-8	Endrin	13.2		1.6	0.32
7421-93-4	Endrin aldehyde	11.6		1.6	0.42
53494-70-5	Endrin ketone	13.9		1.6	0.40
58-89-9	gamma-BHC (Lindane)	11.0		1.6	0.30
5103-74-2	gamma-Chlordane	11.4		1.6	0.52
76-44-8	Heptachlor	12.7		1.6	0.36
1024-57-3	Heptachlor epoxide	12.5		1.6	0.42
72-43-5	Methoxychlor	14.3		1.6	0.33

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	90		45-120
877-09-8	Tetrachloro-m-xylene	74		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-214.D
Lims ID: LCS 480-368494/2-A
Client ID:
Sample Type: LCS
Inject. Date: 26-Jul-2017 13:36:19 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.997	-0.004	11961078	0.5000	0.5000	
2	2.193	2.197	-0.004	9072741	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.523	0.000	322594	0.0200	0.0148	
2	2.903	2.907	-0.004	282168	0.0200	0.0125	
						RPD = 16.60	
6 alpha-BHC							
1	2.943	2.943	0.000	1574585	0.0500	0.0315	
2	3.450	3.453	-0.003	1168591	0.0500	0.0320	
						RPD = 1.59	
7 gamma-BHC (Lindane)							
1	3.197	3.200	-0.003	1499869	0.0500	0.0337	
2	3.797	3.800	-0.003	1086918	0.0500	0.0347	
						RPD = 2.90	
8 beta-BHC							
1	3.267	3.270	-0.003	599824	0.0500	0.0342	
2	3.870	3.873	-0.003	430315	0.0500	0.0324	
						RPD = 5.57	
9 delta-BHC							
1	3.420	3.423	-0.003	1552390	0.0500	0.0352	
2	4.180	4.183	-0.003	1089100	0.0500	0.0340	
						RPD = 3.60	
11 Heptachlor							
1	3.607	3.610	-0.003	1510765	0.0500	0.0386	
2	4.263	4.267	-0.004	1108318	0.0500	0.0380	
						RPD = 1.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.883	3.887	-0.004	1337048	0.0500	0.0334	
2	4.613	4.617	-0.004	1009123	0.0500	0.0349	
						RPD = 4.24	
14 Heptachlor epoxide							
1	4.477	4.480	-0.003	1300481	0.0500	0.0381	
2	5.217	5.220	-0.003	908256	0.0500	0.0379	
						RPD = 0.60	
16 gamma-Chlordane							
1	4.603	4.607	-0.004	1362941	0.0500	0.0346	
2	5.413	5.417	-0.004	927524	0.0500	0.0354	
						RPD = 2.16	
17 alpha-Chlordane							
1	4.737	4.740	-0.003	1129526	0.0500	0.0306	
2	5.567	5.570	-0.003	848745	0.0500	0.0360	
						RPD = 16.20	
18 4,4'-DDE							
1	4.820	4.823	-0.003	1329556	0.0500	0.0367	
2	5.727	5.733	-0.006	944055	0.0500	0.0383	
						RPD = 4.47	
19 Endosulfan I							
1	4.877	4.880	-0.003	897653	0.0500	0.0289	
2	5.633	5.637	-0.004	621801	0.0500	0.0291	
						RPD = 0.55	
21 Dieldrin							
1	5.120	5.123	-0.003	1401426	0.0500	0.0403	
2	5.920	5.923	-0.003	1005774	0.0500	0.0404	
						RPD = 0.27	
23 Endrin							
1	5.357	5.360	-0.003	1336483	0.0500	0.0403	
2	6.240	6.247	-0.007	903589	0.0500	0.0394	
						RPD = 2.20	
24 4,4'-DDD							
1	5.433	5.440	-0.007	1142125	0.0500	0.0388	
2	6.330	6.337	-0.007	805379	0.0500	0.0420	
						RPD = 7.96	
27 Endosulfan II							
1	5.587	5.590	-0.003	937818	0.0500	0.0319	
2	6.457	6.460	-0.003	643814	0.0500	0.0323	
						RPD = 1.16	
28 4,4'-DDT							
1	5.723	5.727	-0.004	1327807	0.0500	0.0422	
2	6.657	6.663	-0.006	819833	0.0500	0.0427	
						RPD = 1.34	
29 Endrin aldehyde							
1	6.020	6.023	-0.003	842328	0.0500	0.0354	
2	6.800	6.807	-0.007	644373	0.0500	0.0419	
						RPD = 16.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.233	6.237	-0.004	599623	0.0500	0.0436	
2	7.343	7.350	-0.007	598493	0.0500	0.0689	
						RPD = 44.85	
32 Endosulfan sulfate							
1	6.467	6.470	-0.003	1391149	0.0500	0.0526	
2	7.087	7.090	-0.003	671789	0.0500	0.0387	
						RPD = 30.46	
33 Endrin ketone							
1	6.750	6.753	-0.003	1307508	0.0500	0.0425	
2	7.637	7.640	-0.003	827952	0.0500	0.0422	
						RPD = 0.65	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.783	-0.003	441487	0.0200	0.0180	
2	8.833	8.840	-0.007	285373	0.0200	0.0196	
						RPD = 8.34	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

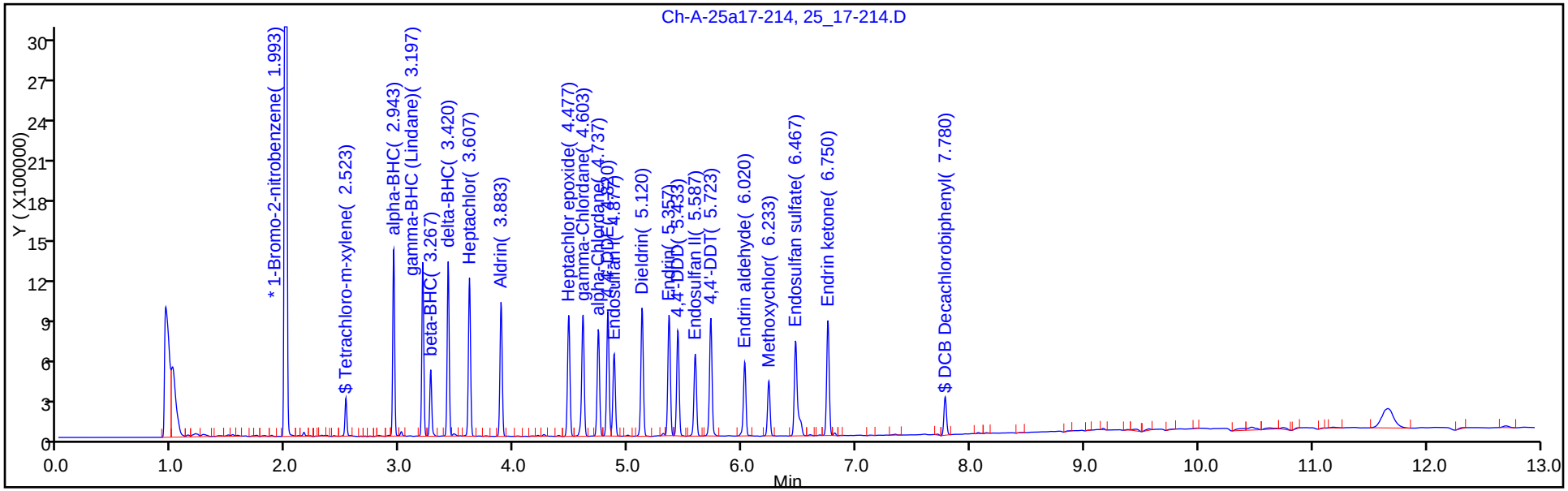
Report Date: 27-Jul-2017 11:17:23 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

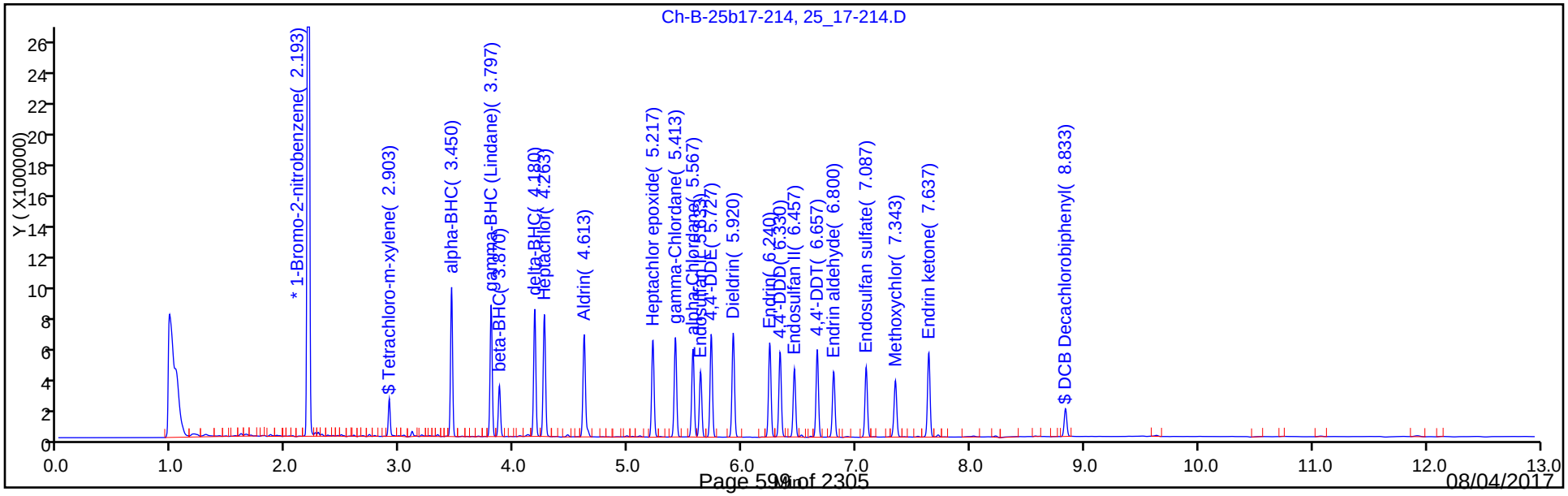
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-214.D

Injection Date:	26-Jul-2017 13:36:19	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368494/2-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368494/2-A

Matrix: Solid | Lab File ID: 25_17-214.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.48(g) | Date Analyzed: 07/26/2017 13:36

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	98		45-120
877-09-8	Tetrachloro-m-xylene	63		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-214.D
Lims ID: LCS 480-368494/2-A
Client ID:
Sample Type: LCS
Inject. Date: 26-Jul-2017 13:36:19 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.997	-0.004	11961078	0.5000	0.5000	
2	2.193	2.197	-0.004	9072741	0.5000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.523	0.000	322594	0.0200	0.0148	
2	2.903	2.907	-0.004	282168	0.0200	0.0125	
						RPD = 16.60	
6 alpha-BHC							
1	2.943	2.943	0.000	1574585	0.0500	0.0315	
2	3.450	3.453	-0.003	1168591	0.0500	0.0320	
						RPD = 1.59	
7 gamma-BHC (Lindane)							
1	3.197	3.200	-0.003	1499869	0.0500	0.0337	
2	3.797	3.800	-0.003	1086918	0.0500	0.0347	
						RPD = 2.90	
8 beta-BHC							
1	3.267	3.270	-0.003	599824	0.0500	0.0342	
2	3.870	3.873	-0.003	430315	0.0500	0.0324	
						RPD = 5.57	
9 delta-BHC							
1	3.420	3.423	-0.003	1552390	0.0500	0.0352	
2	4.180	4.183	-0.003	1089100	0.0500	0.0340	
						RPD = 3.60	
11 Heptachlor							
1	3.607	3.610	-0.003	1510765	0.0500	0.0386	
2	4.263	4.267	-0.004	1108318	0.0500	0.0380	
						RPD = 1.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
12 Aldrin							
1	3.883	3.887	-0.004	1337048	0.0500	0.0334	
2	4.613	4.617	-0.004	1009123	0.0500	0.0349	
						RPD = 4.24	
14 Heptachlor epoxide							
1	4.477	4.480	-0.003	1300481	0.0500	0.0381	
2	5.217	5.220	-0.003	908256	0.0500	0.0379	
						RPD = 0.60	
16 gamma-Chlordane							
1	4.603	4.607	-0.004	1362941	0.0500	0.0346	
2	5.413	5.417	-0.004	927524	0.0500	0.0354	
						RPD = 2.16	
17 alpha-Chlordane							
1	4.737	4.740	-0.003	1129526	0.0500	0.0306	
2	5.567	5.570	-0.003	848745	0.0500	0.0360	
						RPD = 16.20	
18 4,4'-DDE							
1	4.820	4.823	-0.003	1329556	0.0500	0.0367	
2	5.727	5.733	-0.006	944055	0.0500	0.0383	
						RPD = 4.47	
19 Endosulfan I							
1	4.877	4.880	-0.003	897653	0.0500	0.0289	
2	5.633	5.637	-0.004	621801	0.0500	0.0291	
						RPD = 0.55	
21 Dieldrin							
1	5.120	5.123	-0.003	1401426	0.0500	0.0403	
2	5.920	5.923	-0.003	1005774	0.0500	0.0404	
						RPD = 0.27	
23 Endrin							
1	5.357	5.360	-0.003	1336483	0.0500	0.0403	
2	6.240	6.247	-0.007	903589	0.0500	0.0394	
						RPD = 2.20	
24 4,4'-DDD							
1	5.433	5.440	-0.007	1142125	0.0500	0.0388	
2	6.330	6.337	-0.007	805379	0.0500	0.0420	
						RPD = 7.96	
27 Endosulfan II							
1	5.587	5.590	-0.003	937818	0.0500	0.0319	
2	6.457	6.460	-0.003	643814	0.0500	0.0323	
						RPD = 1.16	
28 4,4'-DDT							
1	5.723	5.727	-0.004	1327807	0.0500	0.0422	
2	6.657	6.663	-0.006	819833	0.0500	0.0427	
						RPD = 1.34	
29 Endrin aldehyde							
1	6.020	6.023	-0.003	842328	0.0500	0.0354	
2	6.800	6.807	-0.007	644373	0.0500	0.0419	
						RPD = 16.57	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
30 Methoxychlor							
1	6.233	6.237	-0.004	599623	0.0500	0.0436	
2	7.343	7.350	-0.007	598493	0.0500	0.0689	
						RPD = 44.85	
32 Endosulfan sulfate							
1	6.467	6.470	-0.003	1391149	0.0500	0.0526	
2	7.087	7.090	-0.003	671789	0.0500	0.0387	
						RPD = 30.46	
33 Endrin ketone							
1	6.750	6.753	-0.003	1307508	0.0500	0.0425	
2	7.637	7.640	-0.003	827952	0.0500	0.0422	
						RPD = 0.65	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.783	-0.003	441487	0.0200	0.0180	
2	8.833	8.840	-0.007	285373	0.0200	0.0196	
						RPD = 8.34	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

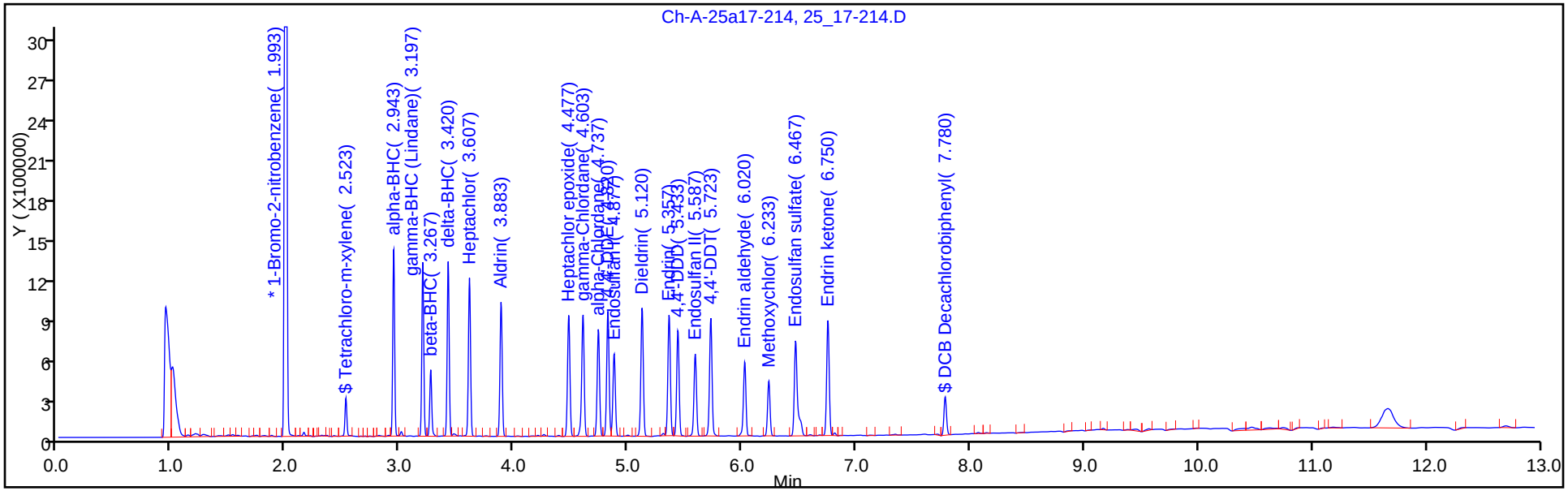
Report Date: 27-Jul-2017 11:17:24 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

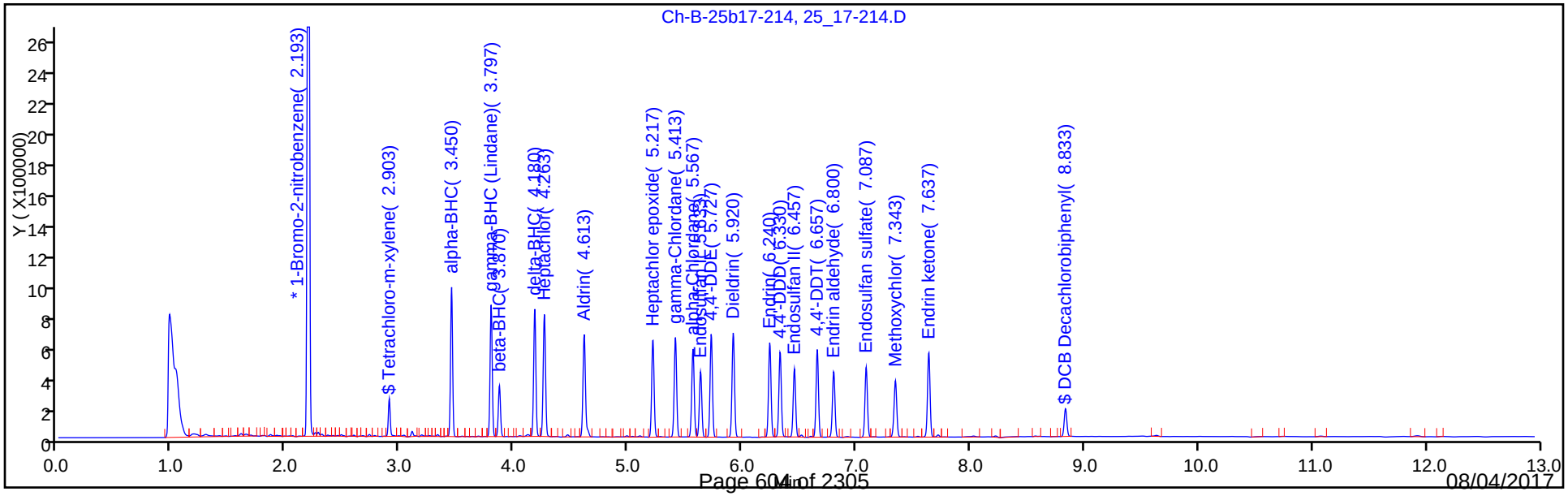
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-214.D

Injection Date:	26-Jul-2017 13:36:19	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368494/2-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS | Lab Sample ID: 480-121501-3 MS

Matrix: Solid | Lab File ID: 25_17-215.D

Analysis Method: 8081B | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.26(g) | Date Analyzed: 07/26/2017 13:56

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	30.5		10	2.0
72-55-9	4,4'-DDE	21.7		10	2.1
50-29-3	4,4'-DDT	20.2		10	2.4
309-00-2	Aldrin	16.9		10	2.5
319-84-6	alpha-BHC	13.1		10	1.8
5103-71-9	alpha-Chlordane	15.7		10	5.1
319-85-7	beta-BHC	14.4		10	1.8
319-86-8	delta-BHC	18.9		10	1.9
60-57-1	Dieldrin	26.2		10	2.4
959-98-8	Endosulfan I	11.7		10	2.0
33213-65-9	Endosulfan II	11.3		10	1.8
1031-07-8	Endosulfan sulfate	17.9		10	1.9
72-20-8	Endrin	15.0		10	2.0
7421-93-4	Endrin aldehyde	13.3		10	2.6
53494-70-5	Endrin ketone	18.4		10	2.5
58-89-9	gamma-BHC (Lindane)	14.9		10	1.9
5103-74-2	gamma-Chlordane	12.9		10	3.2
76-44-8	Heptachlor	15.0		10	2.2
1024-57-3	Heptachlor epoxide	16.3		10	2.6
72-43-5	Methoxychlor	21.1		10	2.1
8001-35-2	Toxaphene	ND		100	59

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	84		45-120
877-09-8	Tetrachloro-m-xylene	94		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-215.D
Lims ID: 480-121501-A-3-A MS
Client ID: TP-11
Sample Type: MS
Inject. Date: 26-Jul-2017 13:56:02 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:49:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.997	-0.004	12037051	0.1000	0.5000	
2	2.193	2.197	-0.004	8809441	0.1000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.523	-0.003	64141	0.004000	0.003771	
2	2.900	2.907	-0.007	57617	0.004000	0.002907	
						RPD = 25.88	
6 alpha-BHC							
1	2.940	2.943	-0.003	298871	0.0100	0.006423	
2	3.447	3.453	-0.006	214557	0.0100	0.006660	
						RPD = 3.62	
7 gamma-BHC (Lindane)							
1	3.197	3.200	-0.003	305526	0.0100	0.007294	
2	3.793	3.800	-0.007	200517	0.0100	0.007232	
						RPD = 0.85	
8 beta-BHC							
1	3.263	3.270	-0.007	116497	0.0100	0.007079	
2	3.867	3.873	-0.006	88902	0.0100	0.007368	
						RPD = 4.01	
9 delta-BHC							
1	3.417	3.423	-0.006	378727	0.0100	0.009276	
2	4.177	4.183	-0.006	199832	0.0100	0.007314	
						RPD = 23.65	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.603	3.610	-0.007	296878	0.0100	0.007368	
2	4.260	4.267	-0.007	225875	0.0100	0.008167	
						RPD = 10.29	
12 Aldrin							
1	3.883	3.887	-0.004	328496	0.0100	0.008315	
2	4.610	4.617	-0.007	188660	0.0100	0.006940	
						RPD = 18.03	
13 Alachlor							
1	4.030	4.013	0.017	26103		0.006790	
2	4.470	4.470	0.000	56010		0.0232	
						RPD = 109.33	
14 Heptachlor epoxide							
1	4.477	4.480	-0.003	286822	0.0100	0.007994	
2	5.207	5.220	-0.013	307138	0.0100	0.0133	
						RPD = 49.79	
16 gamma-Chlordane							
1	4.600	4.607	-0.007	238182	0.0100	0.006313	
2	5.410	5.417	-0.007	326746	0.0100	0.0134	
						RPD = 71.81	
17 alpha-Chlordane							
1	4.737	4.740	-0.003	271761	0.0100	0.007707	
2	5.567	5.570	-0.003	151248	0.0100	0.007319	
						RPD = 5.17	
18 4,4'-DDE							
1	4.817	4.823	-0.006	365207	0.0100	0.0107	
2	5.727	5.733	-0.006	182391	0.0100	0.008354	
						RPD = 24.20	
19 Endosulfan I							
1	4.873	4.880	-0.007	185309	0.0100	0.005734	
2	5.633	5.637	-0.004	113494	0.0100	0.005652	
						RPD = 1.44	
21 Dieldrin							
1	5.120	5.123	-0.003	446980	0.0100	0.0129	
2	5.917	5.923	-0.006	238543	0.0100	0.0103	
						RPD = 22.22	
23 Endrin							
1	5.357	5.360	-0.003	254140	0.0100	0.007364	
2	6.237	6.247	-0.010	199441	0.0100	0.009344	
						RPD = 23.70	
24 4,4'-DDD							
1	5.433	5.440	-0.007	425634	0.0100	0.0150	
2	6.330	6.337	-0.007	255180	0.0100	0.0145	
						RPD = 3.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.587	5.590	-0.003	162788	0.0100	0.005535	
2	6.453	6.460	-0.007	317272	0.0100	0.0166	
						RPD = 99.86	
28 4,4'-DDT							
1	5.720	5.727	-0.007	283539	0.0100	0.0099	
2	6.660	6.663	-0.003	485943	0.0100	0.0268	
						RPD = 91.99	
29 Endrin aldehyde							
1	6.020	6.023	-0.003	161043	0.0100	0.006509	
2	6.803	6.807	-0.004	159292	0.0100	0.0108	
						RPD = 49.99	
30 Methoxychlor							
1	6.233	6.237	-0.004	138208	0.0100	0.0103	
2	7.340	7.350	-0.010	114832	0.0100	0.0149	
						RPD = 36.33	
32 Endosulfan sulfate							
1	6.467	6.470	-0.003	236379	0.0100	0.008812	
2	7.087	7.090	-0.003	130278	0.0100	0.008156	
						RPD = 7.72	
33 Endrin ketone							
1	6.750	6.753	-0.003	278636	0.0100	0.009025	
2	7.633	7.640	-0.007	156346	0.0100	0.008946	
						RPD = 0.89	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.783	-0.003	85994	0.004000	0.003342	
2	8.833	8.840	-0.007	60673	0.004000	0.004193	
						RPD = 22.57	
S 1 BHC, Total							
1						0.0301	
2						0.0286	
						RPD = 5.10	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

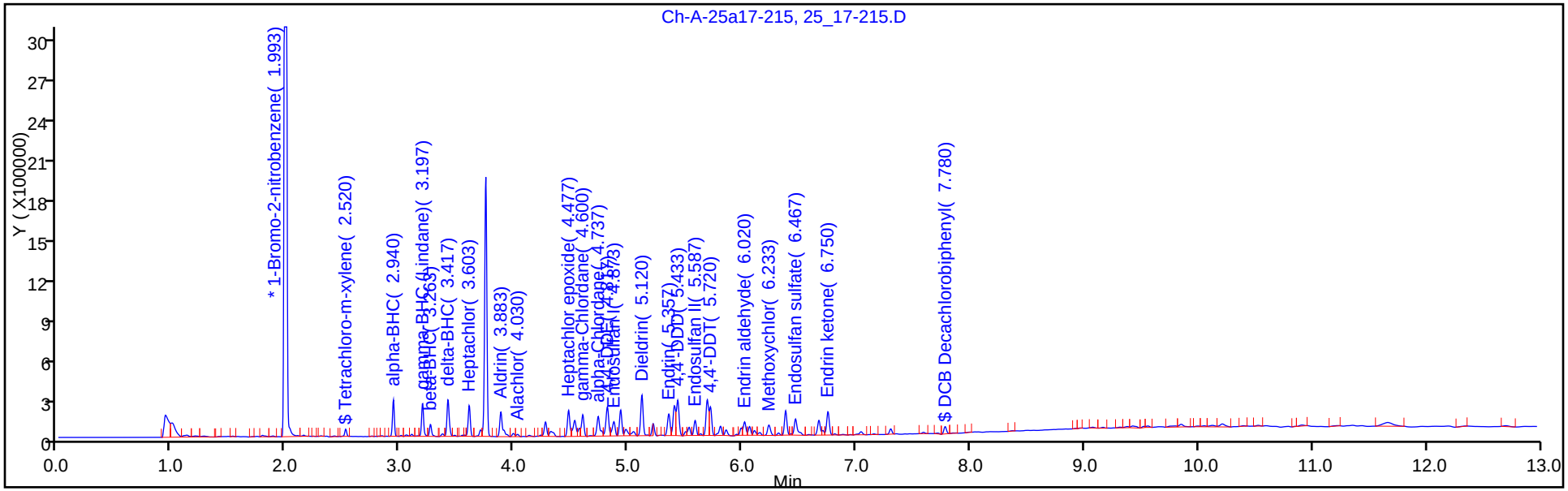
Report Date: 27-Jul-2017 11:17:25 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

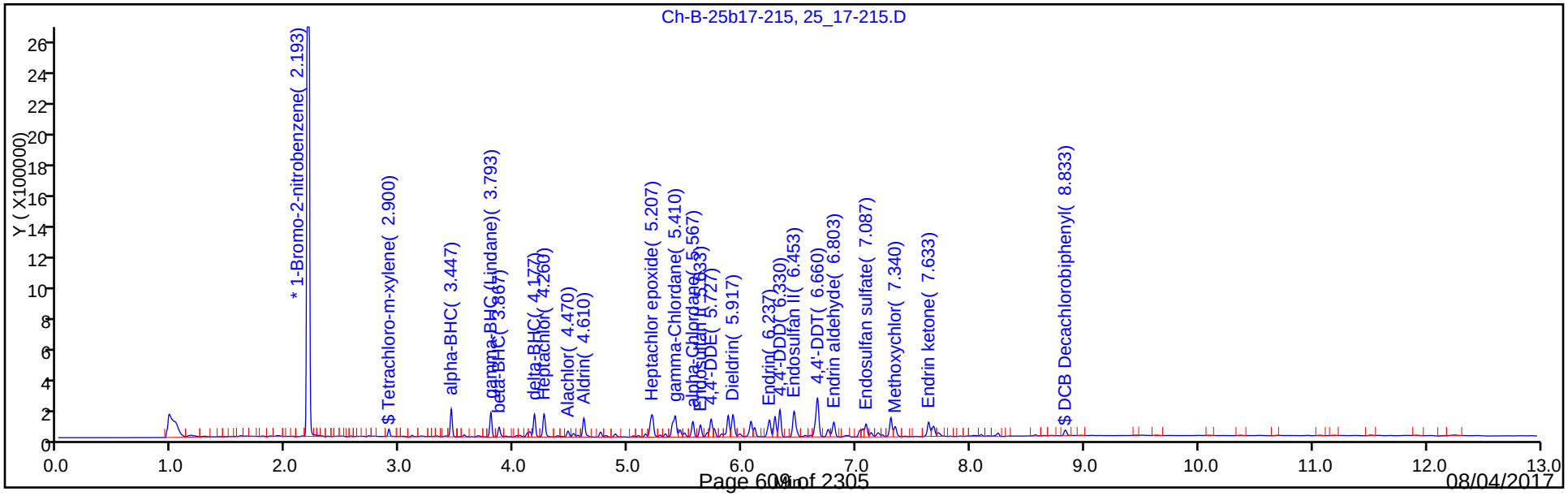
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-215.D

Injection Date:	26-Jul-2017 13:56:02	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-A MS			Worklist Smp#:	10
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS | Lab Sample ID: 480-121501-3 MS

Matrix: Solid | Lab File ID: 25_17-215.D

Analysis Method: 8081B | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.26(g) | Date Analyzed: 07/26/2017 13:56

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	105		45-120
877-09-8	Tetrachloro-m-xylene	73		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-215.D
Lims ID: 480-121501-A-3-A MS
Client ID: TP-11
Sample Type: MS
Inject. Date: 26-Jul-2017 13:56:02 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:49:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.993	1.997	-0.004	12037051	0.1000	0.5000	
2	2.193	2.197	-0.004	8809441	0.1000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.520	2.523	-0.003	64141	0.004000	0.003771	
2	2.900	2.907	-0.007	57617	0.004000	0.002907	
						RPD = 25.88	
6 alpha-BHC							
1	2.940	2.943	-0.003	298871	0.0100	0.006423	
2	3.447	3.453	-0.006	214557	0.0100	0.006660	
						RPD = 3.62	
7 gamma-BHC (Lindane)							
1	3.197	3.200	-0.003	305526	0.0100	0.007294	
2	3.793	3.800	-0.007	200517	0.0100	0.007232	
						RPD = 0.85	
8 beta-BHC							
1	3.263	3.270	-0.007	116497	0.0100	0.007079	
2	3.867	3.873	-0.006	88902	0.0100	0.007368	
						RPD = 4.01	
9 delta-BHC							
1	3.417	3.423	-0.006	378727	0.0100	0.009276	
2	4.177	4.183	-0.006	199832	0.0100	0.007314	
						RPD = 23.65	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.603	3.610	-0.007	296878	0.0100	0.007368	
2	4.260	4.267	-0.007	225875	0.0100	0.008167	
						RPD = 10.29	
12 Aldrin							
1	3.883	3.887	-0.004	328496	0.0100	0.008315	
2	4.610	4.617	-0.007	188660	0.0100	0.006940	
						RPD = 18.03	
13 Alachlor							
1	4.030	4.013	0.017	26103		0.006790	
2	4.470	4.470	0.000	56010		0.0232	
						RPD = 109.33	
14 Heptachlor epoxide							
1	4.477	4.480	-0.003	286822	0.0100	0.007994	
2	5.207	5.220	-0.013	307138	0.0100	0.0133	
						RPD = 49.79	
16 gamma-Chlordane							
1	4.600	4.607	-0.007	238182	0.0100	0.006313	
2	5.410	5.417	-0.007	326746	0.0100	0.0134	
						RPD = 71.81	
17 alpha-Chlordane							
1	4.737	4.740	-0.003	271761	0.0100	0.007707	
2	5.567	5.570	-0.003	151248	0.0100	0.007319	
						RPD = 5.17	
18 4,4'-DDE							
1	4.817	4.823	-0.006	365207	0.0100	0.0107	
2	5.727	5.733	-0.006	182391	0.0100	0.008354	
						RPD = 24.20	
19 Endosulfan I							
1	4.873	4.880	-0.007	185309	0.0100	0.005734	
2	5.633	5.637	-0.004	113494	0.0100	0.005652	
						RPD = 1.44	
21 Dieldrin							
1	5.120	5.123	-0.003	446980	0.0100	0.0129	
2	5.917	5.923	-0.006	238543	0.0100	0.0103	
						RPD = 22.22	
23 Endrin							
1	5.357	5.360	-0.003	254140	0.0100	0.007364	
2	6.237	6.247	-0.010	199441	0.0100	0.009344	
						RPD = 23.70	
24 4,4'-DDD							
1	5.433	5.440	-0.007	425634	0.0100	0.0150	
2	6.330	6.337	-0.007	255180	0.0100	0.0145	
						RPD = 3.46	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.587	5.590	-0.003	162788	0.0100	0.005535	
2	6.453	6.460	-0.007	317272	0.0100	0.0166	
						RPD = 99.86	
28 4,4'-DDT							
1	5.720	5.727	-0.007	283539	0.0100	0.0099	
2	6.660	6.663	-0.003	485943	0.0100	0.0268	
						RPD = 91.99	
29 Endrin aldehyde							
1	6.020	6.023	-0.003	161043	0.0100	0.006509	
2	6.803	6.807	-0.004	159292	0.0100	0.0108	
						RPD = 49.99	
30 Methoxychlor							
1	6.233	6.237	-0.004	138208	0.0100	0.0103	
2	7.340	7.350	-0.010	114832	0.0100	0.0149	
						RPD = 36.33	
32 Endosulfan sulfate							
1	6.467	6.470	-0.003	236379	0.0100	0.008812	
2	7.087	7.090	-0.003	130278	0.0100	0.008156	
						RPD = 7.72	
33 Endrin ketone							
1	6.750	6.753	-0.003	278636	0.0100	0.009025	
2	7.633	7.640	-0.007	156346	0.0100	0.008946	
						RPD = 0.89	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.783	-0.003	85994	0.004000	0.003342	
2	8.833	8.840	-0.007	60673	0.004000	0.004193	
						RPD = 22.57	
S 1 BHC, Total							
1						0.0301	
2						0.0286	
						RPD = 5.10	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

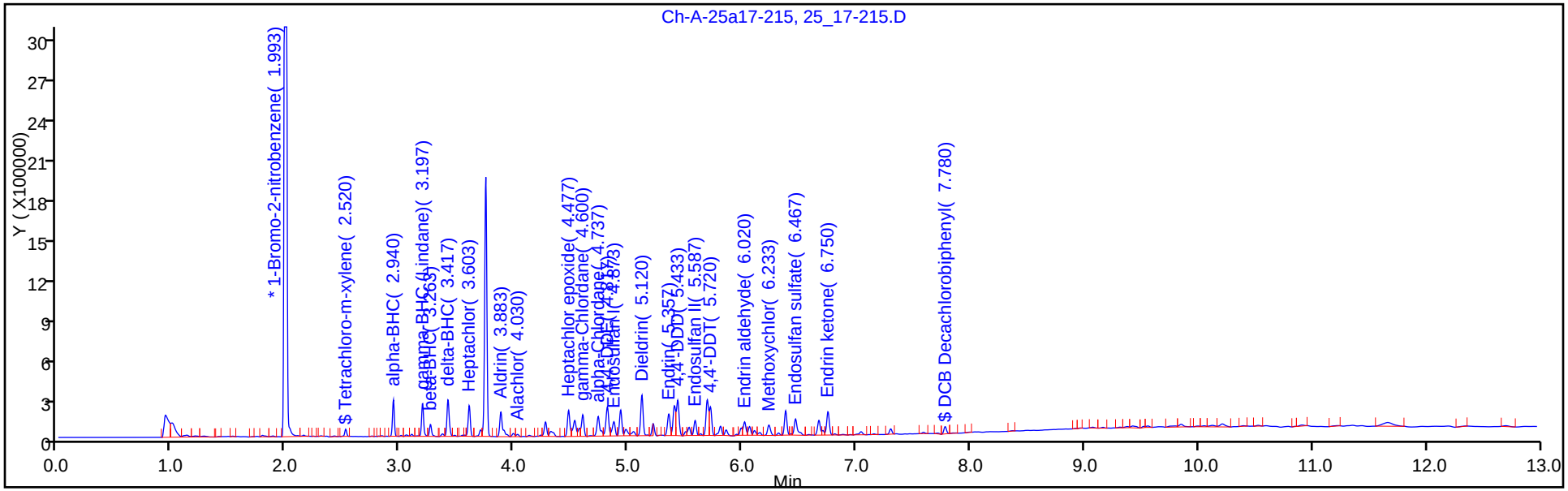
Report Date: 27-Jul-2017 11:17:25 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

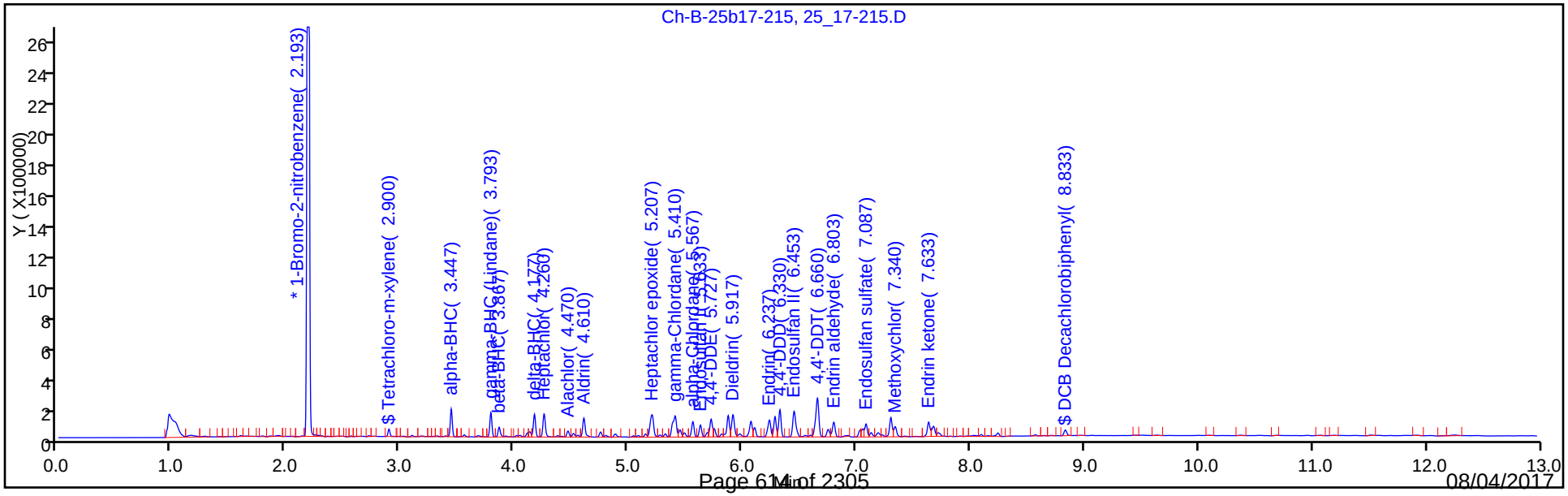
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-215.D

Injection Date:	26-Jul-2017 13:56:02	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-A MS			Worklist Smp#:	10
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD | Lab Sample ID: 480-121501-3 MSD

Matrix: Solid | Lab File ID: 25_17-216.D

Analysis Method: 8081B | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.24(g) | Date Analyzed: 07/26/2017 14:15

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	17.6		10	2.0
72-55-9	4,4'-DDE	21.7		10	2.1
50-29-3	4,4'-DDT	20.9		10	2.4
309-00-2	Aldrin	9.19	J	10	2.5
319-84-6	alpha-BHC	12.5		10	1.8
5103-71-9	alpha-Chlordane	16.0		10	5.1
319-85-7	beta-BHC	13.4		10	1.8
319-86-8	delta-BHC	18.5		10	1.9
60-57-1	Dieldrin	27.0		10	2.4
959-98-8	Endosulfan I	11.8		10	2.0
33213-65-9	Endosulfan II	11.1		10	1.8
1031-07-8	Endosulfan sulfate	17.0		10	1.9
72-20-8	Endrin	14.9		10	2.0
7421-93-4	Endrin aldehyde	12.5		10	2.6
53494-70-5	Endrin ketone	17.6		10	2.5
58-89-9	gamma-BHC (Lindane)	14.8		10	1.9
5103-74-2	gamma-Chlordane	12.4		10	3.2
76-44-8	Heptachlor	14.5		10	2.2
1024-57-3	Heptachlor epoxide	15.2		10	2.6
72-43-5	Methoxychlor	22.1		10	2.1
8001-35-2	Toxaphene	ND		100	59

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	80		45-120
877-09-8	Tetrachloro-m-xylene	95		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-216.D
Lims ID: 480-121501-A-3-B MSD
Client ID: TP-11
Sample Type: MSD
Inject. Date: 26-Jul-2017 14:15:46 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:50:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.997	0.000	11906879	0.1000	0.5000	
2	2.193	2.197	-0.004	8753753	0.1000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.523	0.000	64210	0.004000	0.003804	
2	2.900	2.907	-0.007	57265	0.004000	0.002908	
						RPD = 26.70	
6 alpha-BHC							
1	2.940	2.943	-0.003	281911	0.0100	0.006153	
2	3.447	3.453	-0.006	201709	0.0100	0.006342	
						RPD = 3.03	
7 gamma-BHC (Lindane)							
1	3.197	3.200	-0.003	300084	0.0100	0.007246	
2	3.793	3.800	-0.007	191960	0.0100	0.006996	
						RPD = 3.51	
8 beta-BHC							
1	3.267	3.270	-0.003	106738	0.0100	0.006600	
2	3.867	3.873	-0.006	83820	0.0100	0.007023	
						RPD = 6.21	
9 delta-BHC							
1	3.420	3.423	-0.003	366294	0.0100	0.009091	
2	4.177	4.183	-0.006	189010	0.0100	0.007015	
						RPD = 25.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.603	3.610	-0.007	284821	0.0100	0.007140	
2	4.260	4.267	-0.007	211645	0.0100	0.007716	
						RPD = 7.75	
12 Aldrin							
1	3.883	3.887	-0.004	172324	0.0100	0.004508	
2	4.610	4.617	-0.007	174860	0.0100	0.006492	
						RPD = 36.07	
13 Alachlor							
1	4.030	4.013	0.017	27873		0.007491	
2	4.470	4.470	0.000	54688		0.0227	
						RPD = 100.83	
14 Heptachlor epoxide							
1	4.477	4.480	-0.003	265818	0.0100	0.007461	
2	5.207	5.220	-0.013	301206	0.0100	0.0131	
						RPD = 55.00	
16 gamma-Chlordane							
1	4.600	4.607	-0.007	225830	0.0100	0.006066	
2	5.413	5.417	-0.004	497433	0.0100	0.0200	
						RPD = 107.08	
17 alpha-Chlordane							
1	4.737	4.740	-0.003	274566	0.0100	0.007861	
2	5.567	5.570	-0.003	144307	0.0100	0.007062	
						RPD = 10.70	
18 4,4'-DDE							
1	4.817	4.823	-0.006	361641	0.0100	0.0107	
2	5.727	5.733	-0.006	159509	0.0100	0.007461	
						RPD = 35.36	
19 Endosulfan I							
1	4.873	4.880	-0.007	184322	0.0100	0.005767	
2	5.630	5.637	-0.007	105164	0.0100	0.005286	
						RPD = 8.70	
21 Dieldrin							
1	5.120	5.123	-0.003	456051	0.0100	0.0133	
2	5.917	5.923	-0.006	213189	0.0100	0.009321	
						RPD = 34.99	
22 2,4'-DDT							
1	5.277	5.253	0.024	12488		0.001140	
2	6.287	6.267	0.020	212177		0.0149	
						RPD = 171.59	
23 Endrin							
1	5.357	5.360	-0.003	249857	0.0100	0.007317	
2	6.237	6.247	-0.010	185424	0.0100	0.008775	
						RPD = 18.12	
24 4,4'-DDD							
1	5.433	5.440	-0.007	231229	0.0100	0.008655	
2	6.330	6.337	-0.007	143130	0.0100	0.008651	
						RPD = 0.05	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.587	5.590	-0.003	158443	0.0100	0.005447	
2	6.453	6.460	-0.007	335419	0.0100	0.0176	
						RPD = 105.51	
28 4,4'-DDT							
1	5.720	5.727	-0.007	290842	0.0100	0.0102	
2	6.660	6.663	-0.003	522715	0.0100	0.0289	
						RPD = 95.27	
29 Endrin aldehyde							
1	6.020	6.023	-0.003	150796	0.0100	0.006146	
2	6.803	6.807	-0.004	153668	0.0100	0.0105	
						RPD = 52.64	
30 Methoxychlor							
1	6.237	6.237	0.000	143498	0.0100	0.0108	
2	7.340	7.350	-0.010	106803	0.0100	0.0141	
						RPD = 26.09	
32 Endosulfan sulfate							
1	6.467	6.470	-0.003	221616	0.0100	0.008347	
2	7.083	7.090	-0.007	108080	0.0100	0.006899	
						RPD = 19.00	
33 Endrin ketone							
1	6.753	6.753	0.000	263945	0.0100	0.008644	
2	7.633	7.640	-0.007	144829	0.0100	0.008401	
						RPD = 2.86	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.783	-0.003	82064	0.004000	0.003218	
2	8.833	8.840	-0.007	57901	0.004000	0.004022	
						RPD = 22.20	
S 1 BHC, Total							
1						0.0291	
2						0.0274	
						RPD = 6.07	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

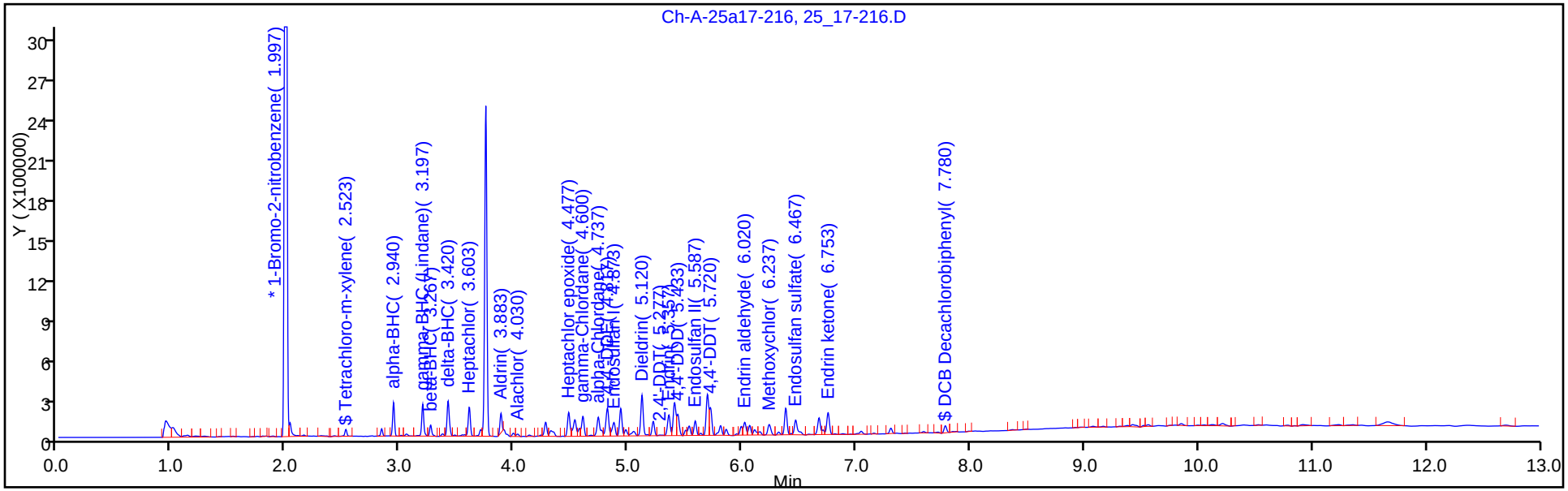
Report Date: 27-Jul-2017 11:17:27 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

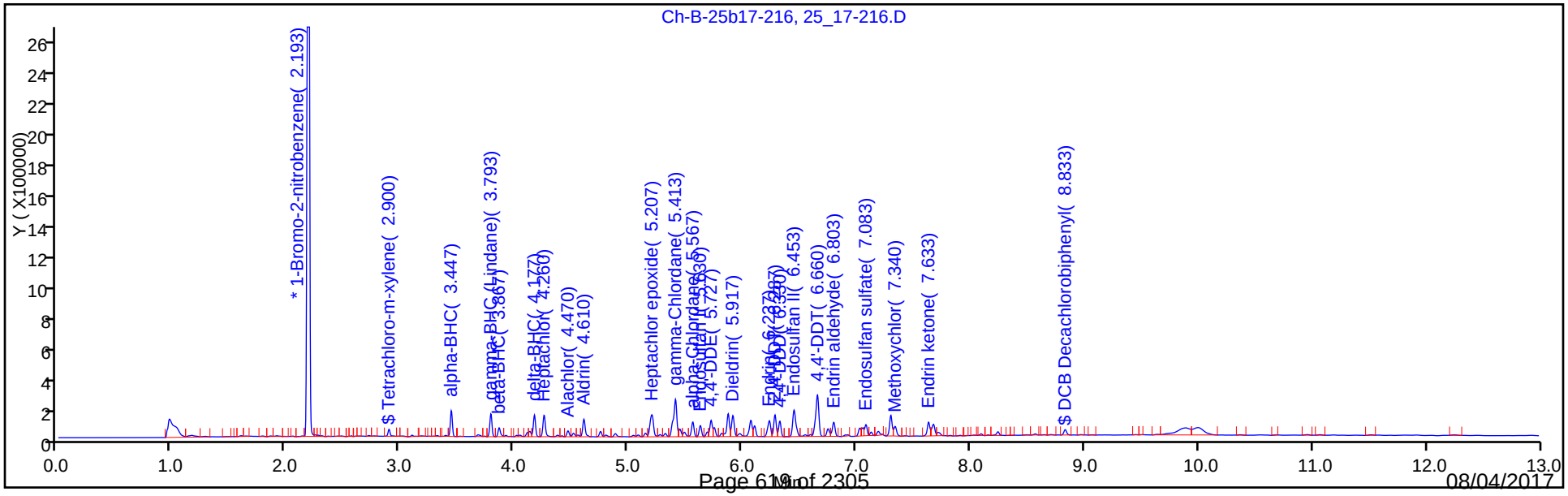
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-216.D

Injection Date:	26-Jul-2017 14:15:46	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-B MSD			Worklist Smp#:	11
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD | Lab Sample ID: 480-121501-3 MSD

Matrix: Solid | Lab File ID: 25_17-216.D

Analysis Method: 8081B | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 07:30

Sample wt/vol: 30.24(g) | Date Analyzed: 07/26/2017 14:15

Con. Extract Vol.: 10(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368774 | Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	101		45-120
877-09-8	Tetrachloro-m-xylene	73		30-124

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-216.D
Lims ID: 480-121501-A-3-B MSD
Client ID: TP-11
Sample Type: MSD
Inject. Date: 26-Jul-2017 14:15:46 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10839003
Operator ID: BufTCHROM Instrument ID: HP6890-25

Method: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\IS-8081.m
Limit Group: GC - 8081B IS ICAL
Last Update: 27-Jul-2017 11:17:18 Calib Date: 20-Jul-2017 14:40:29
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170720-64199.b\25_17-171.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK001

First Level Reviewer: NearyM Date: 27-Jul-2017 10:50:09

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	1.997	1.997	0.000	11906879	0.1000	0.5000	
2	2.193	2.197	-0.004	8753753	0.1000	0.5000	
						RPD = 0.00	
$ 4 Tetrachloro-m-xylene							
1	2.523	2.523	0.000	64210	0.004000	0.003804	
2	2.900	2.907	-0.007	57265	0.004000	0.002908	
						RPD = 26.70	
6 alpha-BHC							
1	2.940	2.943	-0.003	281911	0.0100	0.006153	
2	3.447	3.453	-0.006	201709	0.0100	0.006342	
						RPD = 3.03	
7 gamma-BHC (Lindane)							
1	3.197	3.200	-0.003	300084	0.0100	0.007246	
2	3.793	3.800	-0.007	191960	0.0100	0.006996	
						RPD = 3.51	
8 beta-BHC							
1	3.267	3.270	-0.003	106738	0.0100	0.006600	
2	3.867	3.873	-0.006	83820	0.0100	0.007023	
						RPD = 6.21	
9 delta-BHC							
1	3.420	3.423	-0.003	366294	0.0100	0.009091	
2	4.177	4.183	-0.006	189010	0.0100	0.007015	
						RPD = 25.78	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
11 Heptachlor							
1	3.603	3.610	-0.007	284821	0.0100	0.007140	
2	4.260	4.267	-0.007	211645	0.0100	0.007716	
						RPD = 7.75	
12 Aldrin							
1	3.883	3.887	-0.004	172324	0.0100	0.004508	
2	4.610	4.617	-0.007	174860	0.0100	0.006492	
						RPD = 36.07	
13 Alachlor							
1	4.030	4.013	0.017	27873		0.007491	
2	4.470	4.470	0.000	54688		0.0227	
						RPD = 100.83	
14 Heptachlor epoxide							
1	4.477	4.480	-0.003	265818	0.0100	0.007461	
2	5.207	5.220	-0.013	301206	0.0100	0.0131	
						RPD = 55.00	
16 gamma-Chlordane							
1	4.600	4.607	-0.007	225830	0.0100	0.006066	
2	5.413	5.417	-0.004	497433	0.0100	0.0200	
						RPD = 107.08	
17 alpha-Chlordane							
1	4.737	4.740	-0.003	274566	0.0100	0.007861	
2	5.567	5.570	-0.003	144307	0.0100	0.007062	
						RPD = 10.70	
18 4,4'-DDE							
1	4.817	4.823	-0.006	361641	0.0100	0.0107	
2	5.727	5.733	-0.006	159509	0.0100	0.007461	
						RPD = 35.36	
19 Endosulfan I							
1	4.873	4.880	-0.007	184322	0.0100	0.005767	
2	5.630	5.637	-0.007	105164	0.0100	0.005286	
						RPD = 8.70	
21 Dieldrin							
1	5.120	5.123	-0.003	456051	0.0100	0.0133	
2	5.917	5.923	-0.006	213189	0.0100	0.009321	
						RPD = 34.99	
22 2,4'-DDT							
1	5.277	5.253	0.024	12488		0.001140	
2	6.287	6.267	0.020	212177		0.0149	
						RPD = 171.59	
23 Endrin							
1	5.357	5.360	-0.003	249857	0.0100	0.007317	
2	6.237	6.247	-0.010	185424	0.0100	0.008775	
						RPD = 18.12	
24 4,4'-DDD							
1	5.433	5.440	-0.007	231229	0.0100	0.008655	
2	6.330	6.337	-0.007	143130	0.0100	0.008651	
						RPD = 0.05	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
27 Endosulfan II							
1	5.587	5.590	-0.003	158443	0.0100	0.005447	
2	6.453	6.460	-0.007	335419	0.0100	0.0176	
						RPD = 105.51	
28 4,4'-DDT							
1	5.720	5.727	-0.007	290842	0.0100	0.0102	
2	6.660	6.663	-0.003	522715	0.0100	0.0289	
						RPD = 95.27	
29 Endrin aldehyde							
1	6.020	6.023	-0.003	150796	0.0100	0.006146	
2	6.803	6.807	-0.004	153668	0.0100	0.0105	
						RPD = 52.64	
30 Methoxychlor							
1	6.237	6.237	0.000	143498	0.0100	0.0108	
2	7.340	7.350	-0.010	106803	0.0100	0.0141	
						RPD = 26.09	
32 Endosulfan sulfate							
1	6.467	6.470	-0.003	221616	0.0100	0.008347	
2	7.083	7.090	-0.007	108080	0.0100	0.006899	
						RPD = 19.00	
33 Endrin ketone							
1	6.753	6.753	0.000	263945	0.0100	0.008644	
2	7.633	7.640	-0.007	144829	0.0100	0.008401	
						RPD = 2.86	
$ 34 DCB Decachlorobiphenyl							
1	7.780	7.783	-0.003	82064	0.004000	0.003218	
2	8.833	8.840	-0.007	57901	0.004000	0.004022	
						RPD = 22.20	
S 1 BHC, Total							
1						0.0291	
2						0.0274	
						RPD = 6.07	

Reagents:

COPPER_00067	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

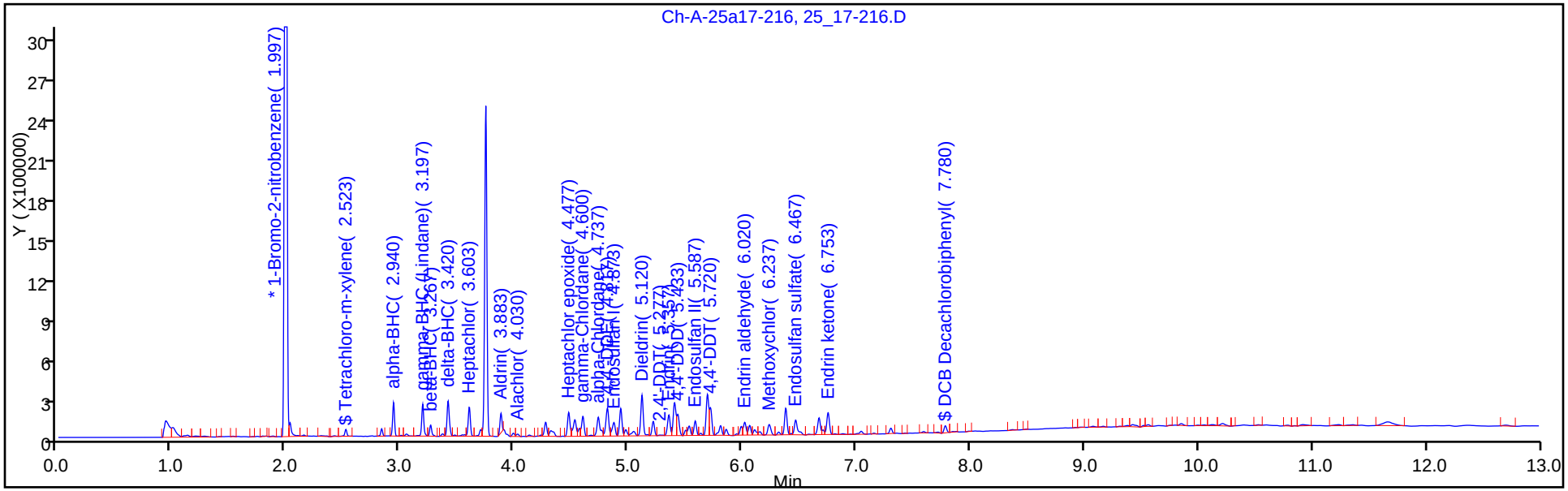
Report Date: 27-Jul-2017 11:17:27 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

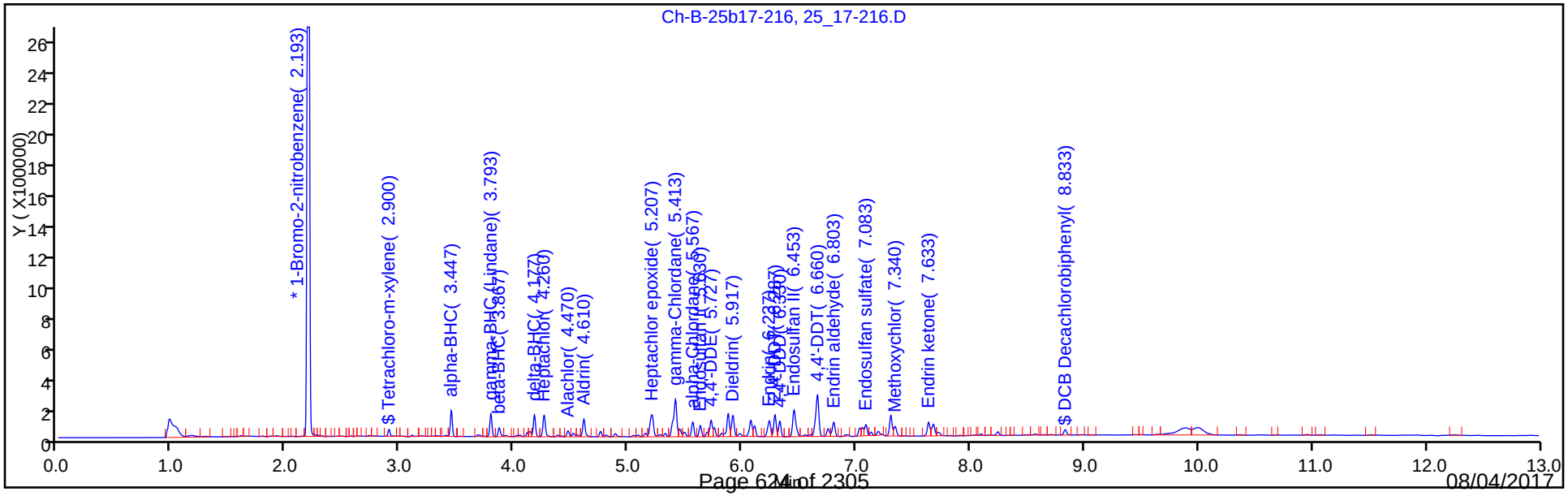
Data File: \\ChromNA\Buffalo\ChromData\HP6890-25\20170726-64338.b\25_17-216.D

Injection Date:	26-Jul-2017 14:15:46	Instrument ID:	HP6890-25	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-B MSD			Worklist Smp#:	11
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	IS-8081	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 04/13/2017 10:23

Analysis Batch Number: 351826 End Date: 04/13/2017 18:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-351826/4 IC		04/13/2017 10:23	1		RTX-CLPI 0.53(mm)
STD1 480-351826/4 IC		04/13/2017 10:23	1		RTX-CLPII 0.53(mm)
STD2 480-351826/5 IC		04/13/2017 10:42	1		RTX-CLPI 0.53(mm)
STD2 480-351826/5 IC		04/13/2017 10:42	1		RTX-CLPII 0.53(mm)
STD3 480-351826/6 ICIS		04/13/2017 11:02	1		RTX-CLPI 0.53(mm)
STD3 480-351826/6 ICIS		04/13/2017 11:02	1		RTX-CLPII 0.53(mm)
STD4 480-351826/9 IC		04/13/2017 11:22	1		RTX-CLPI 0.53(mm)
STD4 480-351826/9 IC		04/13/2017 11:22	1		RTX-CLPII 0.53(mm)
STD5 480-351826/10 IC		04/13/2017 11:41	1		RTX-CLPI 0.53(mm)
STD5 480-351826/10 IC		04/13/2017 11:41	1		RTX-CLPII 0.53(mm)
STD1 480-351826/12 IC		04/13/2017 12:21	1		RTX-CLPI 0.53(mm)
STD1 480-351826/12 IC		04/13/2017 12:21	1		RTX-CLPII 0.53(mm)
STD2 480-351826/13 IC		04/13/2017 12:40	1		RTX-CLPI 0.53(mm)
STD2 480-351826/13 IC		04/13/2017 12:40	1		RTX-CLPII 0.53(mm)
STD3 480-351826/14 IC		04/13/2017 13:00	1		RTX-CLPI 0.53(mm)
STD3 480-351826/14 IC		04/13/2017 13:00	1		RTX-CLPII 0.53(mm)
STD4 480-351826/15 IC		04/13/2017 13:19	1		RTX-CLPI 0.53(mm)
STD4 480-351826/15 IC		04/13/2017 13:19	1		RTX-CLPII 0.53(mm)
STD5 480-351826/16 IC		04/13/2017 13:39	1		RTX-CLPI 0.53(mm)
STD5 480-351826/16 IC		04/13/2017 13:39	1		RTX-CLPII 0.53(mm)
ICV 480-351826/17		04/13/2017 13:59	1		RTX-CLPI 0.53(mm)
ICV 480-351826/17		04/13/2017 13:59	1		RTX-CLPII 0.53(mm)
STD1 480-351826/18 IC		04/13/2017 14:18	1	25_13-158.D	RTX-CLPI 0.53(mm)
STD1 480-351826/18 IC		04/13/2017 14:18	1	25_13-158.D	RTX-CLPII 0.53(mm)
STD2 480-351826/19 IC		04/13/2017 14:38	1	25_13-159.D	RTX-CLPI 0.53(mm)
STD2 480-351826/19 IC		04/13/2017 14:38	1	25_13-159.D	RTX-CLPII 0.53(mm)
STD3 480-351826/20 IC		04/13/2017 14:58	1	25_13-160.D	RTX-CLPI 0.53(mm)
STD3 480-351826/20 IC		04/13/2017 14:58	1	25_13-160.D	RTX-CLPII 0.53(mm)
STD4 480-351826/21 IC		04/13/2017 15:17	1	25_13-161.D	RTX-CLPI 0.53(mm)
STD4 480-351826/21 IC		04/13/2017 15:17	1	25_13-161.D	RTX-CLPII 0.53(mm)
STD5 480-351826/22 IC		04/13/2017 15:37	1	25_13-162.D	RTX-CLPI 0.53(mm)
STD5 480-351826/22 IC		04/13/2017 15:37	1	25_13-162.D	RTX-CLPII 0.53(mm)
ICV 480-351826/23		04/13/2017 15:56	1		RTX-CLPI 0.53(mm)
ICV 480-351826/23		04/13/2017 15:56	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 04/13/2017 10:23

Analysis Batch Number: 351826 End Date: 04/13/2017 18:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-351826/24 IC		04/13/2017 16:16	1		RTX-CLPI 0.53(mm)
STD1 480-351826/24 IC		04/13/2017 16:16	1		RTX-CLPII 0.53(mm)
STD2 480-351826/25 IC		04/13/2017 16:36	1		RTX-CLPI 0.53(mm)
STD2 480-351826/25 IC		04/13/2017 16:36	1		RTX-CLPII 0.53(mm)
STD3 480-351826/26 IC		04/13/2017 16:56	1		RTX-CLPI 0.53(mm)
STD3 480-351826/26 IC		04/13/2017 16:56	1		RTX-CLPII 0.53(mm)
STD4 480-351826/27 IC		04/13/2017 17:15	1		RTX-CLPI 0.53(mm)
STD4 480-351826/27 IC		04/13/2017 17:15	1		RTX-CLPII 0.53(mm)
STD5 480-351826/28 IC		04/13/2017 17:35	1		RTX-CLPI 0.53(mm)
STD5 480-351826/28 IC		04/13/2017 17:35	1		RTX-CLPII 0.53(mm)
ICV 480-351826/29		04/13/2017 17:54	1		RTX-CLPI 0.53(mm)
ICV 480-351826/29		04/13/2017 17:54	1		RTX-CLPII 0.53(mm)
ICV 480-351826/30		04/13/2017 18:14	1		RTX-CLPI 0.53(mm)
ICV 480-351826/30		04/13/2017 18:14	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 07/20/2017 11:23

Analysis Batch Number: 367911 End Date: 07/20/2017 15:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-367911/36 IC		07/20/2017 11:23	1	25_17-161.D	RTX-CLPI 0.53(mm)
STD1 480-367911/36 IC		07/20/2017 11:23	1	25_17-161.D	RTX-CLPII 0.53(mm)
STD2 480-367911/37 IC		07/20/2017 11:43	1	25_17-162.D	RTX-CLPI 0.53(mm)
STD2 480-367911/37 IC		07/20/2017 11:43	1	25_17-162.D	RTX-CLPII 0.53(mm)
STD3 480-367911/38 ICIS		07/20/2017 12:03	1	25_17-163.D	RTX-CLPI 0.53(mm)
STD3 480-367911/38 ICIS		07/20/2017 12:03	1	25_17-163.D	RTX-CLPII 0.53(mm)
STD4 480-367911/39 IC		07/20/2017 12:22	1	25_17-164.D	RTX-CLPI 0.53(mm)
STD4 480-367911/39 IC		07/20/2017 12:22	1	25_17-164.D	RTX-CLPII 0.53(mm)
STD5 480-367911/40 IC		07/20/2017 12:42	1	25_17-165.D	RTX-CLPI 0.53(mm)
STD5 480-367911/40 IC		07/20/2017 12:42	1	25_17-165.D	RTX-CLPII 0.53(mm)
ICV 480-367911/41		07/20/2017 13:02	1		RTX-CLPI 0.53(mm)
ICV 480-367911/41		07/20/2017 13:02	1		RTX-CLPII 0.53(mm)
STD1 480-367911/42 IC		07/20/2017 13:21	1		RTX-CLPI 0.53(mm)
STD1 480-367911/42 IC		07/20/2017 13:21	1		RTX-CLPII 0.53(mm)
STD2 480-367911/43 IC		07/20/2017 13:41	1		RTX-CLPI 0.53(mm)
STD2 480-367911/43 IC		07/20/2017 13:41	1		RTX-CLPII 0.53(mm)
STD3 480-367911/44 IC		07/20/2017 14:01	1		RTX-CLPI 0.53(mm)
STD3 480-367911/44 IC		07/20/2017 14:01	1		RTX-CLPII 0.53(mm)
STD4 480-367911/45 IC		07/20/2017 14:20	1		RTX-CLPI 0.53(mm)
STD4 480-367911/45 IC		07/20/2017 14:20	1		RTX-CLPII 0.53(mm)
STD5 480-367911/46 IC		07/20/2017 14:40	1		RTX-CLPI 0.53(mm)
STD5 480-367911/46 IC		07/20/2017 14:40	1		RTX-CLPII 0.53(mm)
ICV 480-367911/47		07/20/2017 15:00	1		RTX-CLPI 0.53(mm)
ICV 480-367911/47		07/20/2017 15:00	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 07/26/2017 11:58

Analysis Batch Number: 368774 End Date: 07/26/2017 20:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 480-368774/4		07/26/2017 11:58	1	25_17-209.D	RTX-CLPI 0.53(mm)
PEM 480-368774/4		07/26/2017 11:58	1	25_17-209.D	RTX-CLPII 0.53(mm)
CCVIS 480-368774/5		07/26/2017 12:17	1	25_17-210.D	RTX-CLPI 0.53(mm)
CCVIS 480-368774/5		07/26/2017 12:17	1	25_17-210.D	RTX-CLPII 0.53(mm)
CCV 480-368774/6		07/26/2017 12:37	1		RTX-CLPI 0.53(mm)
CCV 480-368774/6		07/26/2017 12:37	1		RTX-CLPII 0.53(mm)
CCV 480-368774/7		07/26/2017 12:56	1	25_17-212.D	RTX-CLPI 0.53(mm)
CCV 480-368774/7		07/26/2017 12:56	1	25_17-212.D	RTX-CLPII 0.53(mm)
MB 480-368494/1-A		07/26/2017 13:16	1	25_17-213.D	RTX-CLPI 0.53(mm)
MB 480-368494/1-A		07/26/2017 13:16	1	25_17-213.D	RTX-CLPII 0.53(mm)
LCS 480-368494/2-A		07/26/2017 13:36	1	25_17-214.D	RTX-CLPI 0.53(mm)
LCS 480-368494/2-A		07/26/2017 13:36	1	25_17-214.D	RTX-CLPII 0.53(mm)
480-121501-3 MS		07/26/2017 13:56	5	25_17-215.D	RTX-CLPI 0.53(mm)
480-121501-3 MS		07/26/2017 13:56	5	25_17-215.D	RTX-CLPII 0.53(mm)
480-121501-3 MSD		07/26/2017 14:15	5	25_17-216.D	RTX-CLPI 0.53(mm)
480-121501-3 MSD		07/26/2017 14:15	5	25_17-216.D	RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 14:35	5		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 14:35	5		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 14:54	5		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 14:54	5		RTX-CLPII 0.53(mm)
480-121501-3		07/26/2017 15:14	5	25_17-219.D	RTX-CLPI 0.53(mm)
480-121501-3		07/26/2017 15:14	5	25_17-219.D	RTX-CLPII 0.53(mm)
480-121501-1		07/26/2017 15:34	1	25_17-220.D	RTX-CLPI 0.53(mm)
480-121501-1		07/26/2017 15:34	1	25_17-220.D	RTX-CLPII 0.53(mm)
480-121501-2		07/26/2017 15:53	1	25_17-221.D	RTX-CLPI 0.53(mm)
480-121501-2		07/26/2017 15:53	1	25_17-221.D	RTX-CLPII 0.53(mm)
480-121501-4		07/26/2017 16:13	1	25_17-222.D	RTX-CLPI 0.53(mm)
480-121501-4		07/26/2017 16:13	1	25_17-222.D	RTX-CLPII 0.53(mm)
480-121501-5		07/26/2017 16:32	1	25_17-223.D	RTX-CLPI 0.53(mm)
480-121501-5		07/26/2017 16:32	1	25_17-223.D	RTX-CLPII 0.53(mm)
480-121501-6		07/26/2017 16:52	1	25_17-224.D	RTX-CLPI 0.53(mm)
480-121501-6		07/26/2017 16:52	1	25_17-224.D	RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 17:12	5		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 17:12	5		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 17:31	5		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 17:31	5		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 17:51	20		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 17:51	20		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 18:11	5		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 18:11	5		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 18:30	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 18:30	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 18:50	5		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 18:50	5		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 19:10	10		RTX-CLPI 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP6890-25 Start Date: 07/26/2017 11:58

Analysis Batch Number: 368774 End Date: 07/26/2017 20:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/26/2017 19:10	10		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 19:29	20		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 19:29	20		RTX-CLPII 0.53(mm)
CCV 480-368774/28		07/26/2017 19:49	1		RTX-CLPI 0.53(mm)
CCV 480-368774/28		07/26/2017 19:49	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 20:08	1		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 20:08	1		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 20:28	20		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 20:28	20		RTX-CLPII 0.53(mm)
ZZZZZ		07/26/2017 20:48	20		RTX-CLPI 0.53(mm)
ZZZZZ		07/26/2017 20:48	20		RTX-CLPII 0.53(mm)

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368494 Batch Start Date: 07/25/17 07:29 Batch Analyst: Carroll, Nicole M

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00100	O8081pestspik 00036	AnalysisComment
MB 480-368494/1		3550C, 8081B		CALC NOT SET TO RUN	30.72 g	10 mL	1 mL		
LCS 480-368494/2		3550C, 8081B		CALC NOT SET TO RUN	30.48 g	10 mL	1 mL	1 mL	
480-121501-A-3 MS	TP-11	3550C, 8081B	T	CALC NOT SET TO RUN	30.26 g	10 mL	1 mL	1 mL	
480-121501-A-3 MSD	TP-11	3550C, 8081B	T	CALC NOT SET TO RUN	30.24 g	10 mL	1 mL	1 mL	Decanted
480-121501-A-3	TP-11	3550C, 8081B	T	CALC NOT SET TO RUN	30.55 g	10 mL	1 mL		
480-121501-A-1	TP-13	3550C, 8081B	T	CALC NOT SET TO RUN	30.16 g	10 mL	1 mL		
480-121501-A-2	TP-12	3550C, 8081B	T	CALC NOT SET TO RUN	30.11 g	10 mL	1 mL		Mud
480-121501-A-4	TP-16	3550C, 8081B	T	CALC NOT SET TO RUN	30.07 g	10 mL	1 mL		Sand/Soil
480-121501-A-5	TP-17	3550C, 8081B	T	CALC NOT SET TO RUN	30.31 g	10 mL	1 mL		Sand/Soil
480-121501-A-6	DUP	3550C, 8081B	T	CALC NOT SET TO RUN	30.10 g	10 mL	1 mL		Sand/Soil

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368494 Batch Start Date: 07/25/17 07:29 Batch Analyst: Carroll, Nicole M

Batch Method: 3550C Batch End Date:

Batch Notes	
Balance ID	Balance 5
Batch Comment	Filter paper lot # 9802837
Blank Soil Lot Number	3934401
Analyst ID - Concentration	NC
Analyst ID - Clean Up	NC 07-25-17
Florisil ID	3650757
Na2SO4 ID	3934400
Nominal Amount Used	30 g
Prep Solvent ID	4123568/4149295
Prep Solvent Name	Hexane/Acetone
Prep Solvent Volume Used	300 mL
Person's name who did the prep	BK/NC
Analyst ID - Reagent Drop Witness	NC
Analyst ID - Reagent Drop	NC
Perform Calculation (0=No, 1=Yes)	0
Vial ID	J27378

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1	#	TCX2	#	DCBP1	#	DCBP2	#
TP-13	480-121501-1	140		120		136		101	
TP-12	480-121501-2	149		120		147		108	
TP-11	480-121501-3	142		123		144		113	
TP-16	480-121501-4	114		93		109		80	
TP-17	480-121501-5	128		111		118		87	
DUP	480-121501-6	152		129		157		118	
	MB 480-368612/1-A	159	X	136		157		135	
	LCS 480-368612/2-A	170	X	136		186	X	144	
TP-11 MS	480-121501-3 MS	156	X	124		159		124	
TP-11 MSD	480-121501-3 MSD	161	X	137		162		127	

	QC LIMITS
TCX = Tetrachloro-m-xylene	60-154
DCBP = DCB Decachlorobiphenyl	65-174

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 7_36-227.D

Lab ID: LCS 480-368612/2-A Client ID:

COMPOUND	SPIKE ADDED (mg/Kg)	LCS CONCENTRATION (mg/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	2.26	3.51	155	51-185	
PCB-1260	2.26	3.24	143	61-184	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 7_36-228.D

Lab ID: 480-121501-3 MS Client ID: TP-11 MS

COMPOUND	SPIKE ADDED (mg/Kg)	SAMPLE CONCENTRATION (mg/Kg)	MS CONCENTRATION (mg/Kg)	MS % REC	QC LIMITS REC	#
PCB-1016	2.31	ND	3.17	137	50-177	
PCB-1260	2.31	0.48	3.26	121	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: 7_36-229.D

Lab ID: 480-121501-3 MSD Client ID: TP-11 MSD

COMPOUND	SPIKE ADDED (mg/Kg)	MSD CONCENTRATION (mg/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	2.15	3.36	156	6	50	50-177	
PCB-1260	2.15	3.61	146	10	50	33-200	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: MB 480-368612/1-A

Matrix: Solid Date Extracted: 07/25/2017 14:16

Lab File ID:(1) 7_36-226.D Lab File ID:(2) 7_36-226.D

Date Analyzed:(1) 07/26/2017 13:35 Date Analyzed:(2) 07/26/2017 13:35

Instrument ID:(1) HP6890-7 Instrument ID:(2) HP6890-7

GC Column:(1) ZB-5 ID: 0.53(mm) GC Column:(2) ZB-35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-368612/2-A	07/26/2017 13:51	07/26/2017 13:51
TP-11 MS	480-121501-3 MS	07/26/2017 14:07	07/26/2017 14:07
TP-11 MSD	480-121501-3 MSD	07/26/2017 14:23	07/26/2017 14:23
TP-11	480-121501-3	07/26/2017 14:39	07/26/2017 14:39
TP-13	480-121501-1	07/26/2017 16:48	07/26/2017 16:48
TP-12	480-121501-2	07/26/2017 17:04	07/26/2017 17:04
TP-16	480-121501-4	07/26/2017 17:20	07/26/2017 17:20
TP-17	480-121501-5	07/26/2017 17:36	07/26/2017 17:36
DUP	480-121501-6	07/26/2017 17:52	07/26/2017 17:52

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: ICIS 480-349118/9 Date Analyzed: 03/28/2017 13:16

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 7_28-022.D Heated Purge: (Y/N) N

Calibration ID: 30036

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		14198667	1.17				
UPPER LIMIT		28397334	1.22				
LOWER LIMIT		7099334	1.12				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368775/6		15388831	1.07				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: ICIS 480-349118/9 Date Analyzed: 03/28/2017 13:16

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 7_28-022.D Heated Purge: (Y/N) N

Calibration ID: 30037

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		25919091	1.05				
UPPER LIMIT		51838182	1.10				
LOWER LIMIT		12959546	1.00				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-368775/6		39385935	0.94				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: CCVIS 480-368775/6 Date Analyzed: 07/26/2017 11:58

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 7_36-220.D Heated Purge: (Y/N) N

Calibration ID: 30060

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		15388831	1.07				
UPPER LIMIT		30777662	1.12				
LOWER LIMIT		7694416	1.02				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368775/7		15324796	1.07				
CCV 480-368775/8		15906645	1.07				
CCV 480-368775/9		16348565	1.07				
CCV 480-368775/10		16039504	1.07				
MB 480-368612/1-A		13475209	1.07				
LCS 480-368612/2-A		12384866	1.07				
480-121501-3 MS	TP-11 MS	13862817	1.07				
480-121501-3 MSD	TP-11 MSD	13424155	1.07				
480-121501-3	TP-11	12922096	1.07				
480-121501-1	TP-13	13587628	1.07				
480-121501-2	TP-12	13135114	1.07				
480-121501-4	TP-16	13203778	1.07				
480-121501-5	TP-17	12721106	1.07				
480-121501-6	DUP	12875205	1.07				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Sample No.: CCVIS 480-368775/6 Date Analyzed: 07/26/2017 11:58

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 7_36-220.D Heated Purge: (Y/N) N

Calibration ID: 30061

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		39385935	0.94				
UPPER LIMIT		78771870	0.99				
LOWER LIMIT		19692968	0.89				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-368775/7		38531583	0.94				
CCV 480-368775/8		40378971	0.94				
CCV 480-368775/9		42030383	0.94				
CCV 480-368775/10		41177745	0.94				
MB 480-368612/1-A		37396257	0.94				
LCS 480-368612/2-A		34904387	0.94				
480-121501-3 MS	TP-11 MS	38424305	0.94				
480-121501-3 MSD	TP-11 MSD	36708186	0.94				
480-121501-3	TP-11	35776099	0.94				
480-121501-1	TP-13	37245102	0.94				
480-121501-2	TP-12	36330646	0.94				
480-121501-4	TP-16	36624172	0.94				
480-121501-5	TP-17	34831217	0.94				
480-121501-6	DUP	35417822	0.94				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 Lab Sample ID: 480-121501-2

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 07/26/2017 17:04 Date Analyzed (2): 07/26/2017 17:04

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.34	3.31	3.37	0.227	0.28	18.4
		2	3.44	3.41	3.47	0.225		
		3	3.64	3.61	3.67	0.164		
		4	3.68	3.65	3.71	0.513		
	2	1	2.94	2.91	2.97	0.306	0.23	
		2	3.04	3.01	3.07	0.196		
		3	3.18	3.15	3.21	0.126		
		4	3.23	3.19	3.25	0.138		
		5	3.40	3.39	3.45	0.407		
PCB-1254	1	1	3.86	3.83	3.89	0.819	0.50	43.6
		2	4.08	4.05	4.11	0.290		
		3	4.16	4.13	4.19	0.443		
		4	4.35	4.33	4.39	0.441		
		5	4.76	4.74	4.80	0.531		
	2	1	3.34	3.32	3.38	0.557	0.32	
		2	3.64	3.61	3.67	0.136		
		3	3.73	3.70	3.76	0.377		
		4	3.87	3.84	3.90	0.314		
		5	4.30	4.27	4.33	0.237		
PCB-1260	1	1	4.76	4.73	4.79	0.421	0.25	12.9
		2	4.89	4.86	4.92	0.261		
		3	5.08	5.05	5.11	0.250		
		4	5.29	5.26	5.32	0.178		
		5	5.53	5.50	5.56	0.157		
	2	1	4.30	4.27	4.33	0.319	0.22	
		2	4.35	4.32	4.38	0.210		
		3	4.67	4.64	4.70	0.278		
		4	4.75	4.72	4.78	0.151		
		5	5.08	5.04	5.10	0.155		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 Lab Sample ID: 480-121501-3

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 07/26/2017 14:39 Date Analyzed (2): 07/26/2017 14:39

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1248	1	1	3.34	3.31	3.37	0.634	0.49	9.7
		2	3.44	3.41	3.47	0.319		
		3	3.64	3.61	3.67	0.190		
		4	3.68	3.65	3.71	0.991		
		5	3.81	3.79	3.85	0.297		
	2	1	2.94	2.91	2.97	0.693	0.54	
		2	3.04	3.01	3.07	0.564		
		3	3.18	3.15	3.21	0.586		
		4	3.23	3.19	3.25	0.314		
		5	3.41	3.39	3.45	0.522		
PCB-1254	1	1	3.86	3.83	3.89	0.740	0.83	23.1
		2	4.08	4.05	4.11	0.571		
		3	4.16	4.13	4.19	0.937		
		4	4.36	4.33	4.39	0.813		
		5	4.76	4.74	4.80	1.11		
	2	1	3.35	3.32	3.38	0.651	0.66	
		2	3.64	3.61	3.67	0.504		
		3	3.73	3.70	3.76	0.798		
		4	3.87	3.84	3.90	0.679		
		5	4.30	4.27	4.33	0.672		
PCB-1260	1	1	4.76	4.73	4.79	0.906	0.48	1.7
		2	4.89	4.86	4.92	0.361		
		3	5.08	5.05	5.11	0.370		
		4	5.29	5.26	5.32	0.372		
		5	5.53	5.50	5.56	0.414		
	2	1	4.30	4.27	4.33	0.937	0.48	
		2	4.35	4.32	4.38	0.284		
		3	4.68	4.64	4.70	0.523		
		4	4.75	4.72	4.78	0.312		
		5	5.07	5.04	5.10	0.327		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS Lab Sample ID: 480-121501-3 MS

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 07/26/2017 14:07 Date Analyzed (2): 07/26/2017 14:07

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.54	2.51	2.57	3.41	3.60	12.7
		2	2.69	2.66	2.72	3.49		
		3	2.90	2.86	2.92	3.68		
		4	2.98	2.95	3.01	3.69		
		5	3.04	3.01	3.07	3.70		
	2	1	2.16	2.13	2.19	3.11	3.17	
		2	2.47	2.44	2.50	3.12		
		3	2.57	2.54	2.60	3.19		
		4	2.66	2.63	2.69	3.14		
		5	2.94	2.91	2.97	3.28		
PCB-1248	1	1	3.34	3.31	3.37	1.96	1.67	1.7
		2	3.44	3.41	3.47	2.83		
		3	3.64	3.61	3.67	0.823		
		4	3.68	3.65	3.71	2.38		
		5	3.81	3.79	3.85	0.365		
	2	1	2.94	2.91	2.97	3.59	1.65	
		2	3.04	3.01	3.07	2.91		
		3	3.18	3.15	3.21	0.865		
		4	3.23	3.19	3.25	0.528		
		5	3.41	3.39	3.45	0.337		
PCB-1254	1	1	3.86	3.83	3.89	1.61	2.37	28.1
		2	4.08	4.05	4.11	0.654		
		3	4.16	4.13	4.19	1.44		
		4	4.35	4.33	4.39	3.05		
		5	4.76	4.74	4.80	5.06		
	2	1	3.35	3.32	3.38	1.46	1.78	
		2	3.64	3.61	3.67	0.542		
		3	3.75	3.70	3.76	2.06		
		4	3.88	3.84	3.90	2.28		
		5	4.30	4.27	4.33	2.57		
PCB-1260	1	1	4.76	4.73	4.79	4.22	3.82	15.9
		2	4.89	4.86	4.92	3.76		
		3	5.09	5.05	5.11	3.75		
		4	5.29	5.26	5.32	3.73		
		5	5.53	5.50	5.56	3.63		
	2	1	4.30	4.27	4.33	3.63	3.26	
		2	4.35	4.32	4.38	2.93		
		3	4.67	4.64	4.70	3.80		
		4	4.75	4.72	4.78	2.93		
		5	5.08	5.04	5.10	3.01		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD Lab Sample ID: 480-121501-3 MSD

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 07/26/2017 14:23 Date Analyzed (2): 07/26/2017 14:23

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.54	2.51	2.57	1.18	3.18	5.3
		2	2.69	2.66	2.72	3.63		
		3	2.90	2.86	2.92	3.72		
		4	2.98	2.95	3.01	3.70		
		5	3.04	3.01	3.07	3.69		
	2	1	2.16	2.13	2.19	3.30	3.36	
		2	2.47	2.44	2.50	3.26		
		3	2.57	2.54	2.60	3.32		
		4	2.66	2.63	2.69	3.31		
		5	2.94	2.91	2.97	3.59		
PCB-1248	1	1	3.34	3.31	3.37	2.18	1.89	1.8
		2	3.44	3.41	3.47	2.91		
		3	3.64	3.61	3.67	0.926		
		4	3.68	3.65	3.71	2.89		
		5	3.82	3.79	3.85	0.554		
	2	1	2.94	2.91	2.97	3.92	1.93	
		2	3.04	3.01	3.07	3.14		
		3	3.18	3.15	3.21	1.17		
		4	3.23	3.19	3.25	0.717		
		5	3.41	3.39	3.45	0.684		
PCB-1254	1	1	3.86	3.83	3.89	2.05	2.92	26.0
		2	4.08	4.05	4.11	1.11		
		3	4.16	4.13	4.19	2.04		
		4	4.35	4.33	4.39	3.55		
		5	4.76	4.74	4.80	5.84		
	2	1	3.35	3.32	3.38	1.84	2.25	
		2	3.65	3.61	3.67	0.940		
		3	3.75	3.70	3.76	2.50		
		4	3.88	3.84	3.90	2.74		
		5	4.30	4.27	4.33	3.21		
PCB-1260	1	1	4.76	4.73	4.79	4.87	4.05	11.5
		2	4.89	4.86	4.92	3.74		
		3	5.08	5.05	5.11	3.89		
		4	5.29	5.26	5.32	3.89		
		5	5.53	5.50	5.56	3.87		
	2	1	4.30	4.27	4.33	4.53	3.61	
		2	4.35	4.32	4.38	3.08		
		3	4.67	4.64	4.70	4.18		
		4	4.75	4.72	4.78	3.08		
		5	5.07	5.04	5.10	3.17		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-368612/2-A

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 07/26/2017 13:51 Date Analyzed (2): 07/26/2017 13:51

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.54	2.51	2.57	3.60	3.89	10.0
		2	2.69	2.66	2.72	3.70		
		3	2.90	2.86	2.92	4.03		
		4	2.98	2.95	3.01	4.09		
		5	3.04	3.01	3.07	4.01		
	2	1	2.16	2.13	2.19	3.49	3.51	
		2	2.47	2.44	2.50	3.46		
		3	2.57	2.54	2.60	3.57		
		4	2.66	2.63	2.69	3.50		
		5	2.94	2.91	2.97	3.55		
PCB-1260	1	1	4.76	4.73	4.79	4.14	4.07	22.9
		2	4.89	4.86	4.92	4.15		
		3	5.08	5.05	5.11	4.02		
		4	5.29	5.26	5.32	4.13		
		5	5.53	5.50	5.56	3.93		
	2	1	4.30	4.27	4.33	3.44	3.24	
		2	4.35	4.32	4.38	3.16		
		3	4.67	4.64	4.70	3.15		
		4	4.75	4.72	4.78	3.18		
		5	5.08	5.04	5.10	3.26		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-13 | Lab Sample ID: 480-121501-1

Matrix: Solid | Lab File ID: 7_36-238.D

Analysis Method: 8082A | Date Collected: 07/21/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.73(g) | Date Analyzed: 07/26/2017 16:48

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	140		60-154
2051-24-3	DCB Decachlorobiphenyl	136		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-238.D
Lims ID: 480-121501-A-1-C
Client ID: TP-13
Sample Type: Client
Inject. Date: 26-Jul-2017 16:48:12 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:28:21 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:28:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.073	1.071	0.001	13587628	0.5000	
2	0.942	0.941	0.001	37245102	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.964	1.966	-0.002	925310	0.0280	
2	1.493	1.491	0.001	1993702	0.0240	
					RPD = 15.38	
$ 15 DCB Decachlorobiphenyl						
1	6.886	6.907	-0.021	515489	0.0271	
2	6.056	6.056	0.000	1089237	0.0202	
					RPD = 29.30	

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

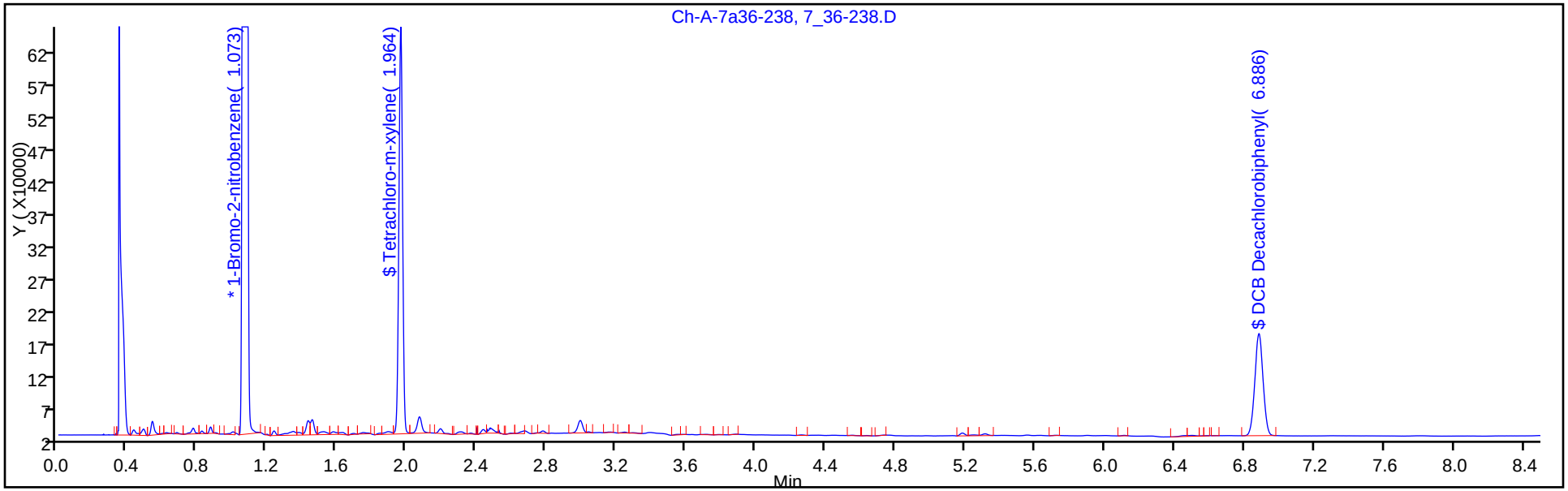
Report Date: 27-Jul-2017 11:28:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

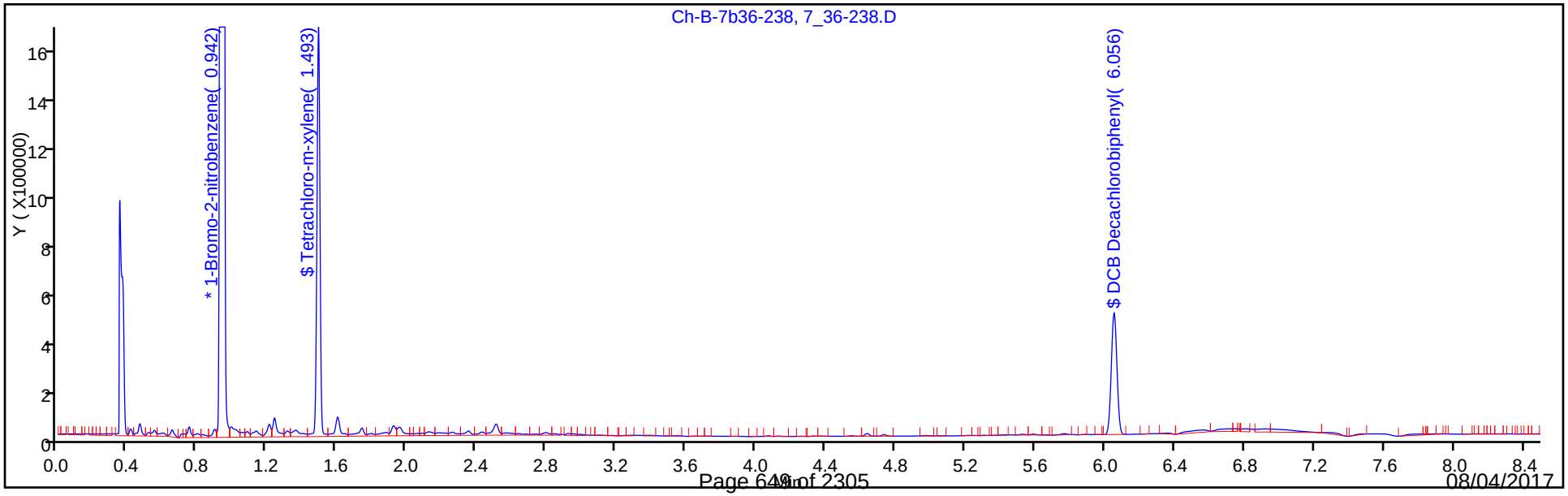
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-238.D

Injection Date:	26-Jul-2017 16:48:12	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-1-C	Lab Sample ID:	480-121501-1	Worklist Smp#:	24
Client ID:	TP-13				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-13 | Lab Sample ID: 480-121501-1

Matrix: Solid | Lab File ID: 7_36-238.D

Analysis Method: 8082A | Date Collected: 07/21/2017 09:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.73(g) | Date Analyzed: 07/26/2017 16:48

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.043
11104-28-2	PCB-1221	ND		0.22	0.043
11141-16-5	PCB-1232	ND		0.22	0.043
53469-21-9	PCB-1242	ND		0.22	0.043
12672-29-6	PCB-1248	ND		0.22	0.043
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	120		60-154
2051-24-3	DCB Decachlorobiphenyl	101		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-238.D
Lims ID: 480-121501-A-1-C
Client ID: TP-13
Sample Type: Client
Inject. Date: 26-Jul-2017 16:48:12 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:28:21 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:28:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.073	1.071	0.001	13587628	0.5000	
2	0.942	0.941	0.001	37245102	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.964	1.966	-0.002	925310	0.0280	
2	1.493	1.491	0.001	1993702	0.0240	
					RPD = 15.38	
$ 15 DCB Decachlorobiphenyl						
1	6.886	6.907	-0.021	515489	0.0271	
2	6.056	6.056	0.000	1089237	0.0202	
					RPD = 29.30	

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

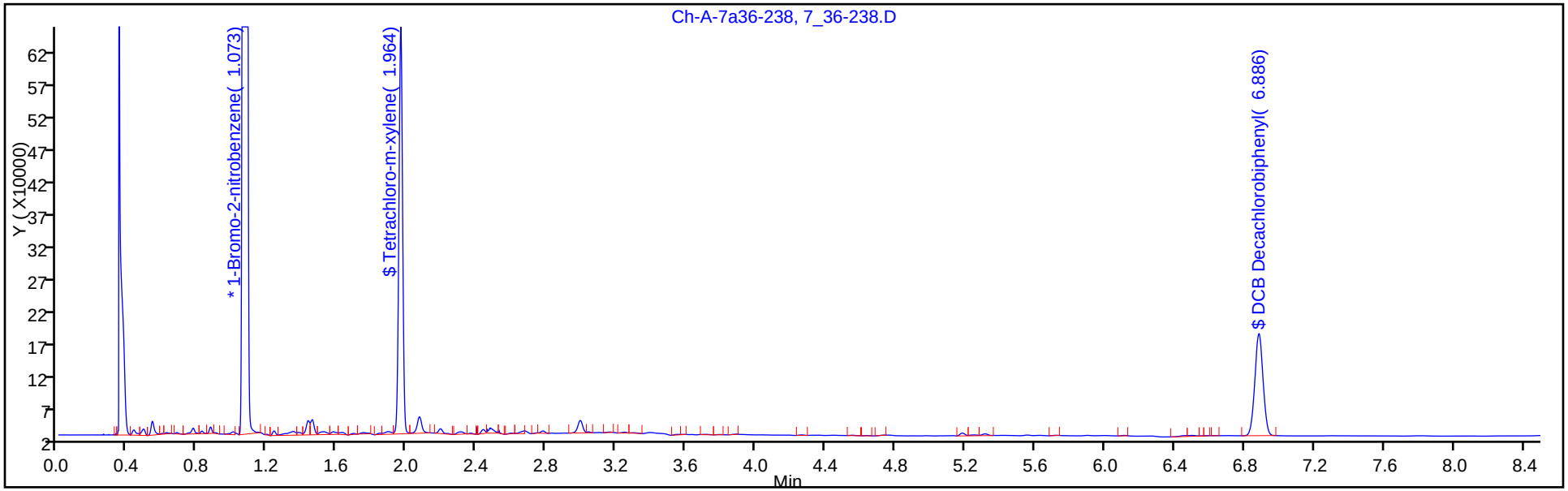
Report Date: 27-Jul-2017 11:28:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

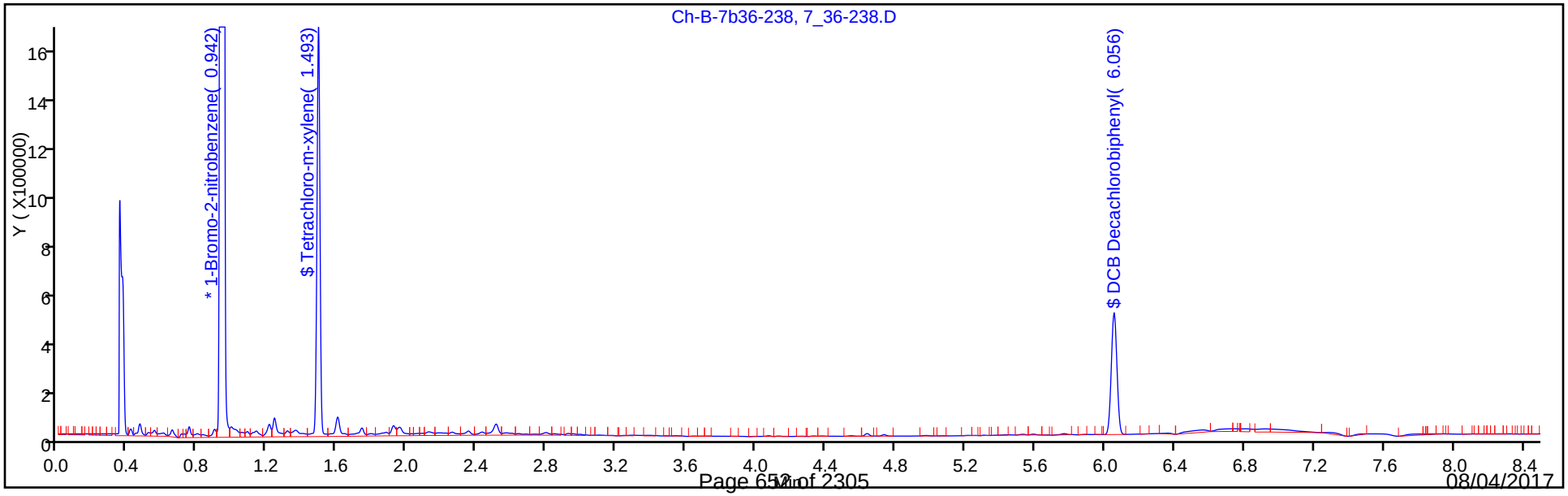
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-238.D

Injection Date:	26-Jul-2017 16:48:12	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-1-C	Lab Sample ID:	480-121501-1	Worklist Smp#:	24
Client ID:	TP-13				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 | Lab Sample ID: 480-121501-2

Matrix: Solid | Lab File ID: 7_36-239.D

Analysis Method: 8082A | Date Collected: 07/21/2017 10:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.45(g) | Date Analyzed: 07/26/2017 17:04

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	149		60-154
2051-24-3	DCB Decachlorobiphenyl	147		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-239.D
Lims ID: 480-121501-A-2-C
Client ID: TP-12
Sample Type: Client
Inject. Date: 26-Jul-2017 17:04:22 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:28:53 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:28:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						M
1	1.072	1.071	0.001	13135114	0.5000	M
2	0.942	0.941	0.001	36330646	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.964	1.966	-0.002	954009	0.0299	
2	1.493	1.491	0.001	1949714	0.0241	
					RPD = 21.62	
10 PCB-1248						
1	3.338	3.338	0.000	57593	0.0423	
1	3.435	3.438	-0.003	43948	0.0420	
1	3.644	3.643	0.002	51547	0.0306	
1	3.682	3.678	0.004	103193	0.0957	
1	0.000	3.821	-3.821	0	0	
		Average of Peak Amounts =			0.0526	
2	2.936	2.936	0.000	127300	0.0570	
2	3.037	3.036	0.001	85527	0.0365	
2	3.179	3.181	-0.002	69313	0.0236	
2	3.226	3.224	0.002	56462	0.0257	
2	3.402	3.417	-0.015	174439	0.0760	
		Average of Peak Amounts =			0.0438	
					RPD = 18.45	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1254						
1	3.855	3.859	-0.004	216635	0.1526	
1	4.081	4.081	0.000	55027	0.0541	
1	4.160	4.162	-0.002	143064	0.0825	
1	4.354	4.360	-0.006	144227	0.0823	
1	4.764	4.765	-0.001	144527	0.0991	
		Average of Peak Amounts =			0.0941	
2	3.343	3.352	-0.009	296225	0.1038	
2	3.644	3.644	0.000	61129	0.0253	
2	3.730	3.730	0.000	319497	0.0703	
2	3.874	3.867	0.007	272422	0.0585	
2	4.295	4.297	-0.002	178985	0.0441	
		Average of Peak Amounts =			0.0604	
					RPD = 43.62	
12 PCB-1260						
1	4.764	4.764	0.000	144527	0.0784	
1	4.893	4.893	0.001	53889	0.0487	
1	5.083	5.083	0.001	49415	0.0467	
1	5.288	5.288	0.000	88465	0.0332	
1	5.529	5.532	-0.003	41719	0.0292	
		Average of Peak Amounts =			0.0472	
2	4.295	4.295	0.000	178985	0.0595	
2	4.348	4.349	-0.001	110204	0.0391	
2	4.672	4.672	0.000	105755	0.0519	
2	4.748	4.748	0.000	172411	0.0282	
2	5.076	5.074	0.002	110761	0.0289	
		Average of Peak Amounts =			0.0415	
					RPD = 12.92	
2 1260 Res 1						
1	5.529	5.532	-0.002	41719	NC	
2	4.603	4.603	0.000	129066	NC	
4 1260 Res 2						
1	5.725	5.734	-0.009	544	NC	
2	4.748	4.748	0.000	172411	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.888	6.907	-0.019	538954	0.0294	
2	6.056	6.056	0.000	1131896	0.0216	
					RPD = 30.85	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

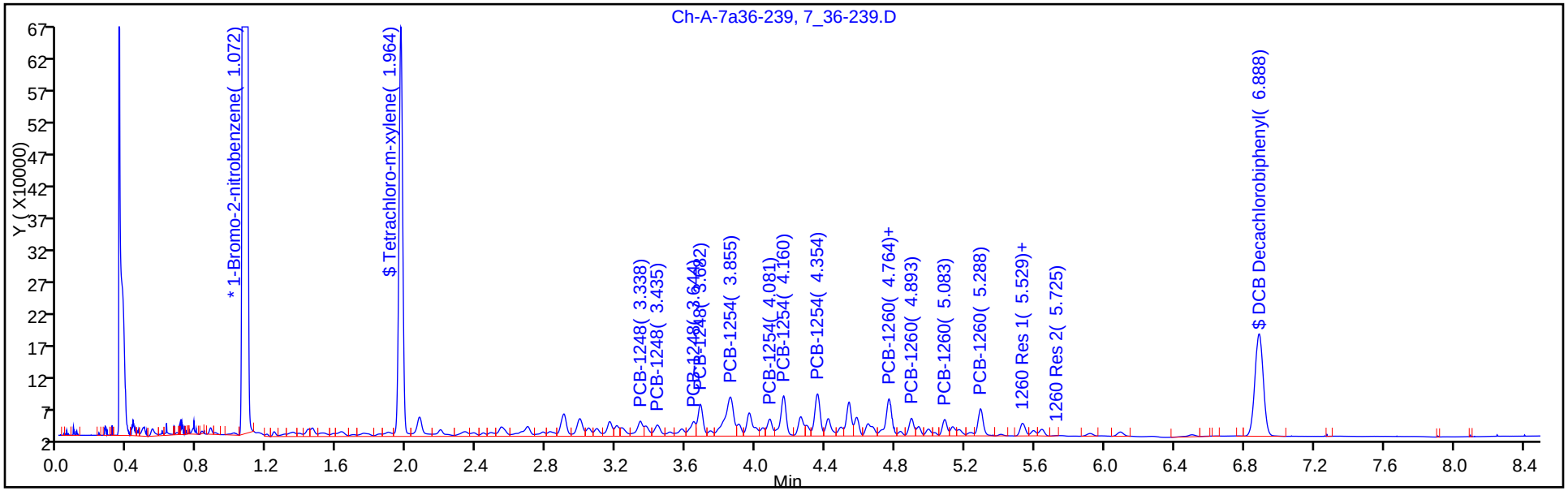
Report Date: 27-Jul-2017 11:28:53 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

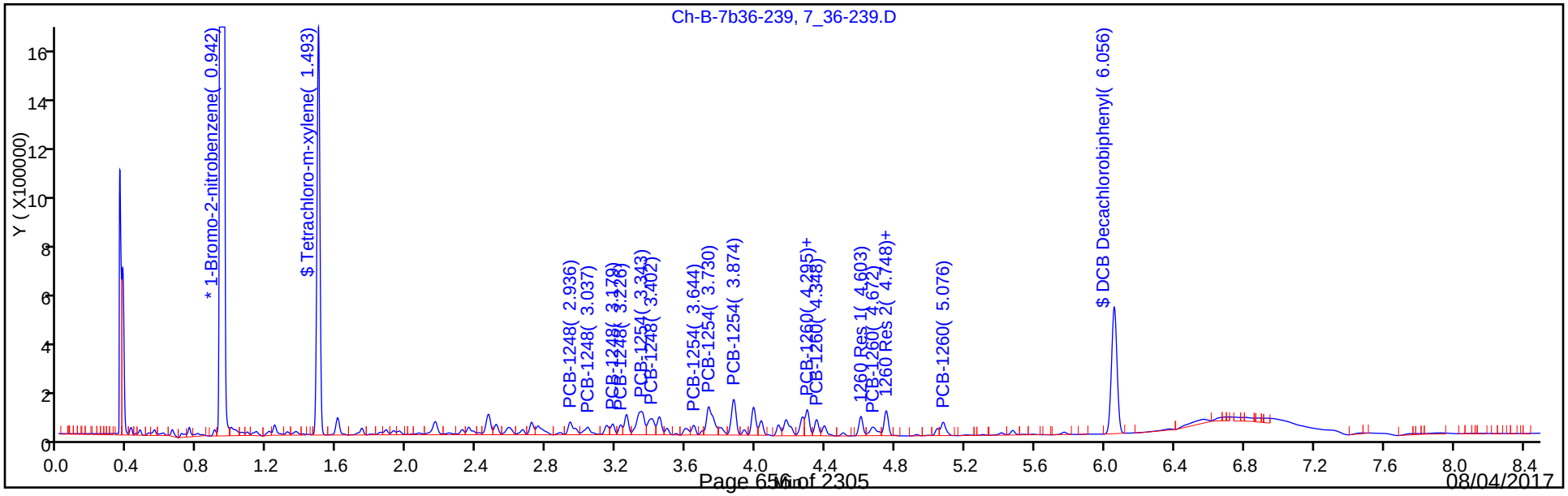
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-239.D

Injection Date:	26-Jul-2017 17:04:22	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-2-C	Lab Sample ID:	480-121501-2	Worklist Smp#:	25
Client ID:	TP-12				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

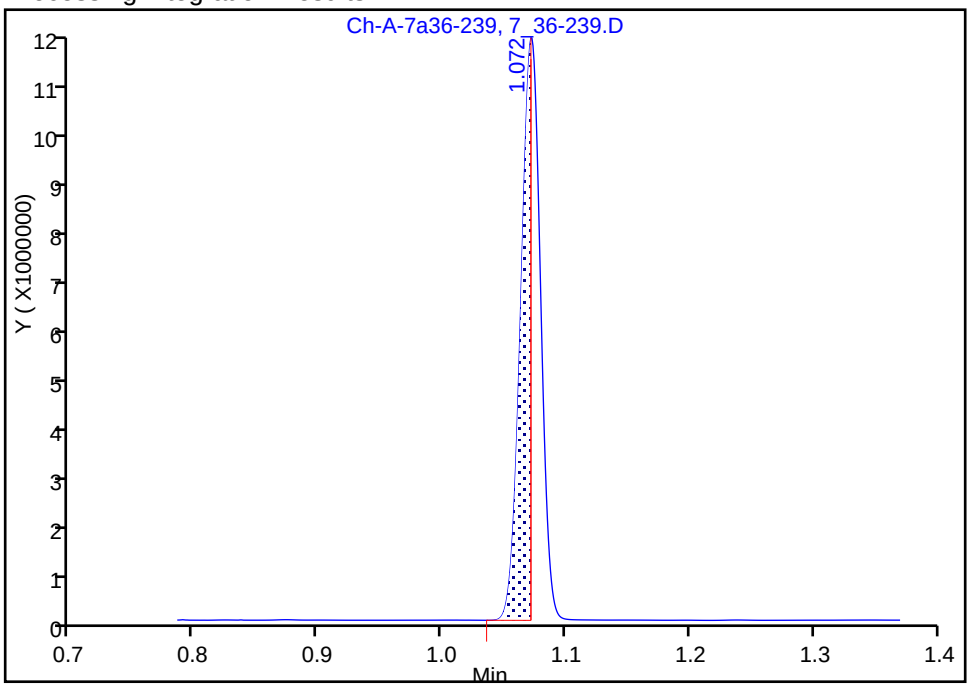
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-239.D				
Injection Date:	26-Jul-2017 17:04:22	Instrument ID:	HP6890-7		
Lims ID:	480-121501-A-2-C	Lab Sample ID:	480-121501-2		
Client ID:	TP-12				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

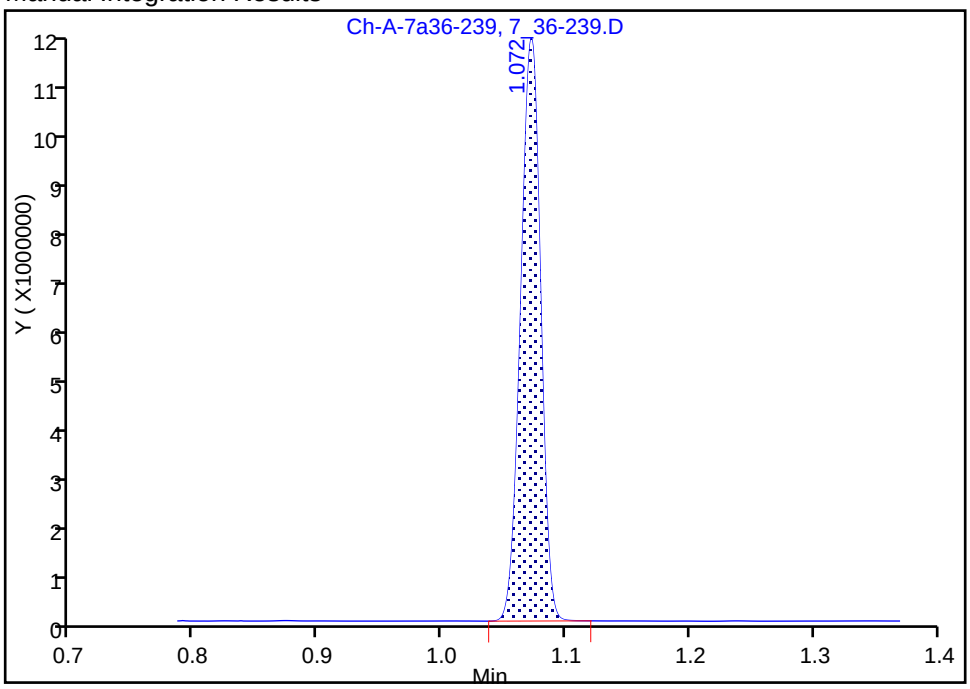
Processing Integration Results

RT: 1.07
Area: 6650027
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.07
Area: 13135114
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 27-Jul-2017 11:28:31

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-12 | Lab Sample ID: 480-121501-2

Matrix: Solid | Lab File ID: 7_36-239.D

Analysis Method: 8082A | Date Collected: 07/21/2017 10:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.45(g) | Date Analyzed: 07/26/2017 17:04

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 23.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.27	0.052
11104-28-2	PCB-1221	ND		0.27	0.052
11141-16-5	PCB-1232	ND		0.27	0.052
53469-21-9	PCB-1242	ND		0.27	0.052
12672-29-6	PCB-1248	0.23	J	0.27	0.052
11097-69-1	PCB-1254	0.32		0.27	0.13
11096-82-5	PCB-1260	0.22	J	0.27	0.13
37324-23-5	PCB-1262	ND		0.27	0.13
11100-14-4	PCB-1268	ND		0.27	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	120		60-154
2051-24-3	DCB Decachlorobiphenyl	108		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-239.D
Lims ID: 480-121501-A-2-C
Client ID: TP-12
Sample Type: Client
Inject. Date: 26-Jul-2017 17:04:22 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:28:53 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:28:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						M
1	1.072	1.071	0.001	13135114	0.5000	M
2	0.942	0.941	0.001	36330646	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.964	1.966	-0.002	954009	0.0299	
2	1.493	1.491	0.001	1949714	0.0241	
					RPD = 21.62	
10 PCB-1248						
1	3.338	3.338	0.000	57593	0.0423	
1	3.435	3.438	-0.003	43948	0.0420	
1	3.644	3.643	0.002	51547	0.0306	
1	3.682	3.678	0.004	103193	0.0957	
1	0.000	3.821	-3.821	0	0	
		Average of Peak Amounts =			0.0526	
2	2.936	2.936	0.000	127300	0.0570	
2	3.037	3.036	0.001	85527	0.0365	
2	3.179	3.181	-0.002	69313	0.0236	
2	3.226	3.224	0.002	56462	0.0257	
2	3.402	3.417	-0.015	174439	0.0760	
		Average of Peak Amounts =			0.0438	
					RPD = 18.45	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1254						
1	3.855	3.859	-0.004	216635	0.1526	
1	4.081	4.081	0.000	55027	0.0541	
1	4.160	4.162	-0.002	143064	0.0825	
1	4.354	4.360	-0.006	144227	0.0823	
1	4.764	4.765	-0.001	144527	0.0991	
		Average of Peak Amounts =			0.0941	
2	3.343	3.352	-0.009	296225	0.1038	
2	3.644	3.644	0.000	61129	0.0253	
2	3.730	3.730	0.000	319497	0.0703	
2	3.874	3.867	0.007	272422	0.0585	
2	4.295	4.297	-0.002	178985	0.0441	
		Average of Peak Amounts =			0.0604	
					RPD = 43.62	
12 PCB-1260						
1	4.764	4.764	0.000	144527	0.0784	
1	4.893	4.893	0.001	53889	0.0487	
1	5.083	5.083	0.001	49415	0.0467	
1	5.288	5.288	0.000	88465	0.0332	
1	5.529	5.532	-0.003	41719	0.0292	
		Average of Peak Amounts =			0.0472	
2	4.295	4.295	0.000	178985	0.0595	
2	4.348	4.349	-0.001	110204	0.0391	
2	4.672	4.672	0.000	105755	0.0519	
2	4.748	4.748	0.000	172411	0.0282	
2	5.076	5.074	0.002	110761	0.0289	
		Average of Peak Amounts =			0.0415	
					RPD = 12.92	
2 1260 Res 1						
1	5.529	5.532	-0.002	41719	NC	
2	4.603	4.603	0.000	129066	NC	
4 1260 Res 2						
1	5.725	5.734	-0.009	544	NC	
2	4.748	4.748	0.000	172411	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.888	6.907	-0.019	538954	0.0294	
2	6.056	6.056	0.000	1131896	0.0216	
					RPD = 30.85	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

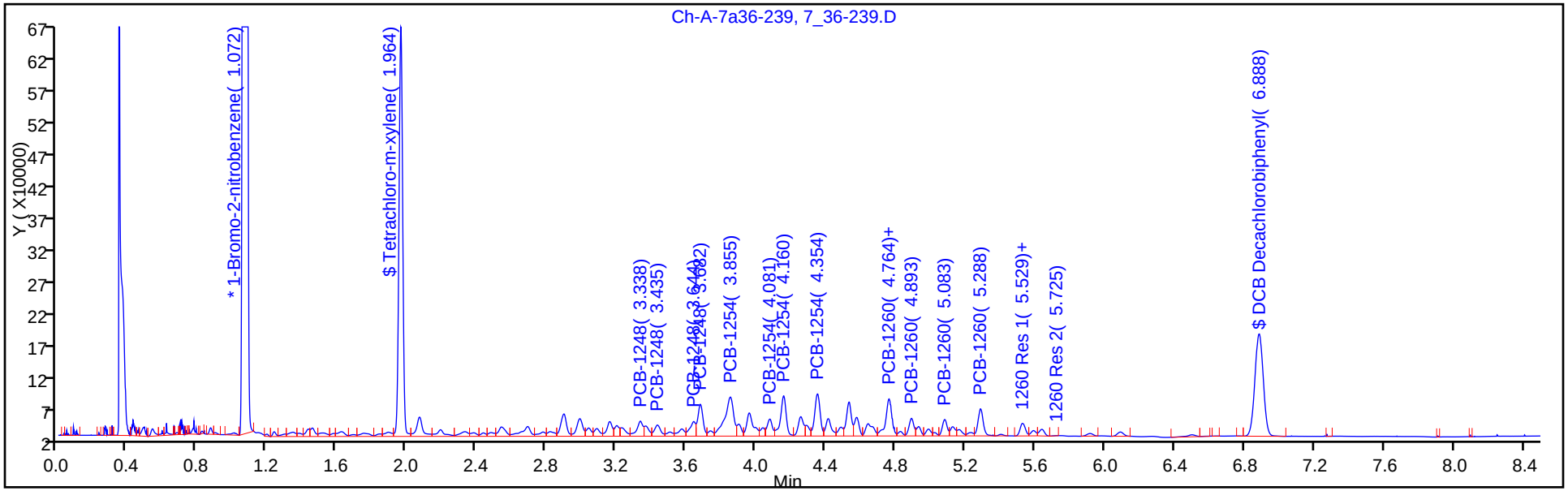
Report Date: 27-Jul-2017 11:28:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

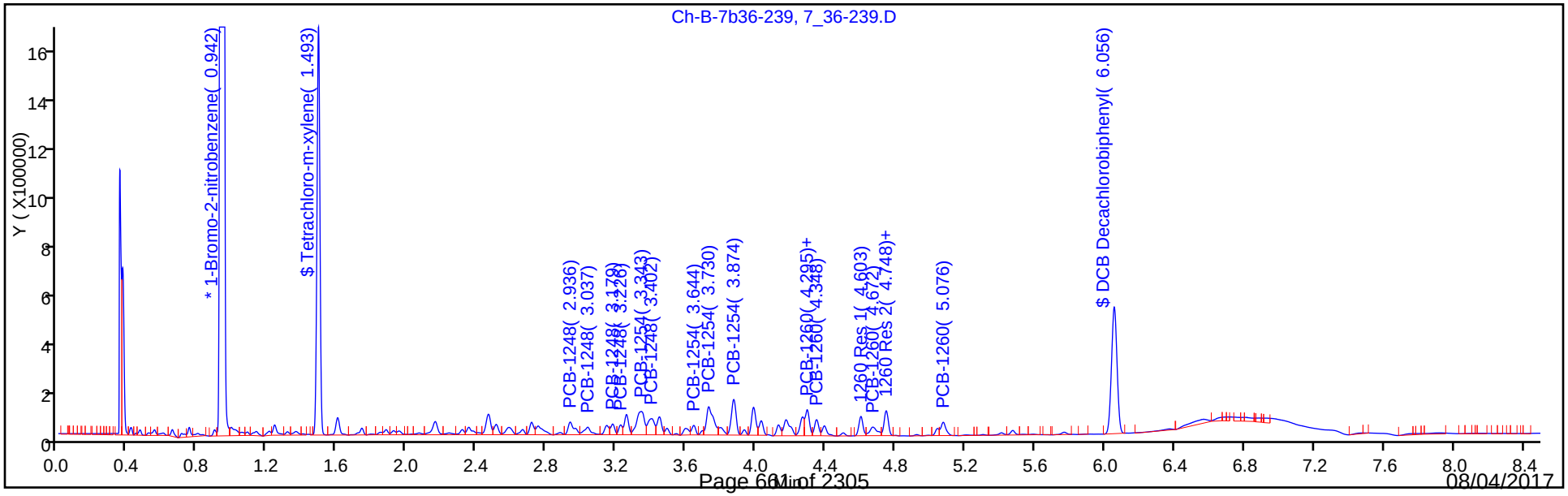
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-239.D

Injection Date:	26-Jul-2017 17:04:22	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-2-C	Lab Sample ID:	480-121501-2	Worklist Smp#:	25
Client ID:	TP-12				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 | Lab Sample ID: 480-121501-3

Matrix: Solid | Lab File ID: 7_36-230.D

Analysis Method: 8082A | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.48(g) | Date Analyzed: 07/26/2017 14:39

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	142		60-154
2051-24-3	DCB Decachlorobiphenyl	144		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-230.D
Lims ID: 480-121501-A-3-I
Client ID: TP-11
Sample Type: Client
Inject. Date: 26-Jul-2017 14:39:38 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:18:57 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:18:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.073	1.071	0.002	12922096	0.5000	
2	0.943	0.941	0.001	35776099	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.965	1.966	-0.001	891548	0.0284	
2	1.493	1.491	0.001	1957621	0.0245	
					RPD = 14.50	
10 PCB-1248						
1	3.340	3.338	0.002	151587	0.1276	
1	3.437	3.438	-0.001	63288	0.0641	
1	3.644	3.643	0.002	62006	0.0381	
1	3.683	3.678	0.005	201319	0.1995	
1	3.813	3.821	-0.008	59094	0.0598	
		Average of Peak Amounts =			0.0978	
2	2.937	2.936	0.001	290747	0.1394	
2	3.036	3.036	0.000	225896	0.1135	
2	3.180	3.181	-0.001	248781	0.1179	
2	3.225	3.224	0.001	124801	0.0633	
2	3.408	3.417	-0.009	233841	0.1051	
		Average of Peak Amounts =			0.1078	
					RPD = 9.73	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1254						
1	3.859	3.859	0.000	208185	0.1489	
1	4.081	4.081	0.000	106677	0.1148	
1	4.160	4.162	-0.002	307023	0.1886	
1	4.355	4.360	-0.005	271243	0.1636	
1	4.764	4.765	-0.001	308384	0.2231	
		Average of Peak Amounts =			0.1678	
2	3.352	3.352	0.000	362934	0.1310	
2	3.644	3.644	0.000	207126	0.1014	
2	3.729	3.730	-0.001	692769	0.1606	
2	3.873	3.867	0.006	601078	0.1367	
2	4.296	4.297	-0.001	502208	0.1353	
		Average of Peak Amounts =			0.1330	
					RPD = 23.13	
12 PCB-1260						
1	4.764	4.764	0.000	308384	0.1823	
1	4.893	4.893	0.000	74545	0.0726	
1	5.083	5.083	0.001	72152	0.0744	
1	5.289	5.288	0.001	176231	0.0749	
1	5.532	5.532	0.000	95591	0.0833	
		Average of Peak Amounts =			0.0975	
2	4.296	4.295	0.001	502208	0.1886	
2	4.348	4.349	-0.001	150213	0.0571	
2	4.676	4.672	0.004	200769	0.1052	
2	4.748	4.748	0.000	372481	0.0627	
2	5.074	5.074	0.000	239659	0.0657	
		Average of Peak Amounts =			0.0959	
					RPD = 1.71	
2 1260 Res 1						
1	5.532	5.532	0.000	95591	NC	
2	4.603	4.603	0.000	256665	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.885	6.907	-0.022	520451	0.0289	
2	6.056	6.056	0.000	1165658	0.0226	
					RPD = 24.52	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

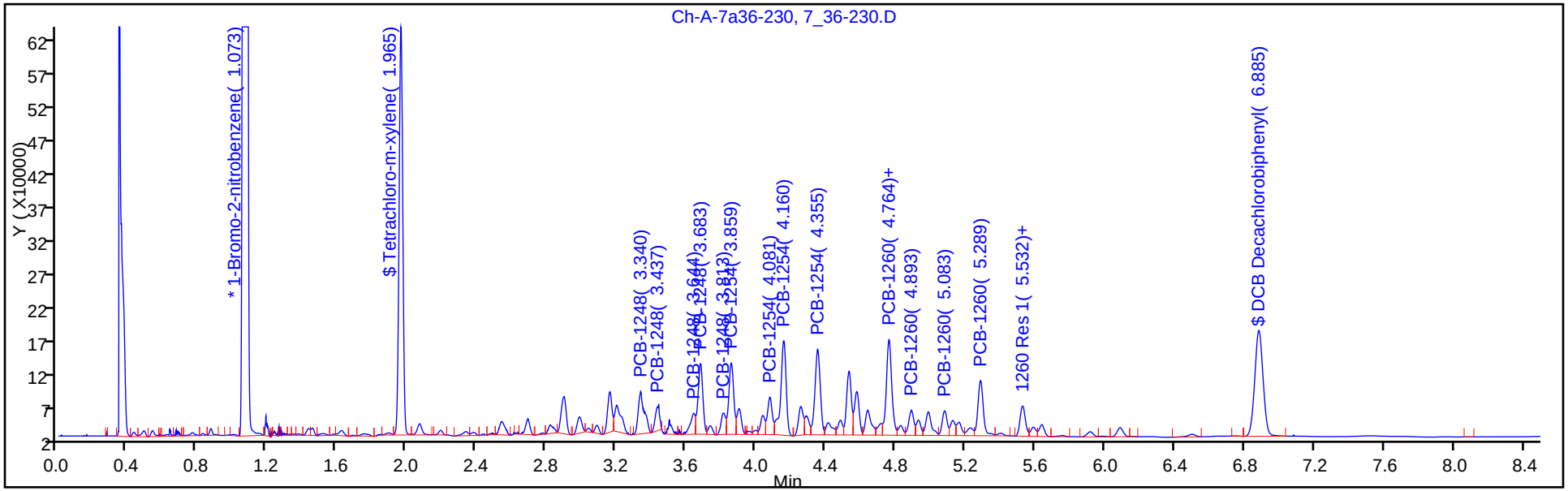
Report Date: 26-Jul-2017 15:18:57 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

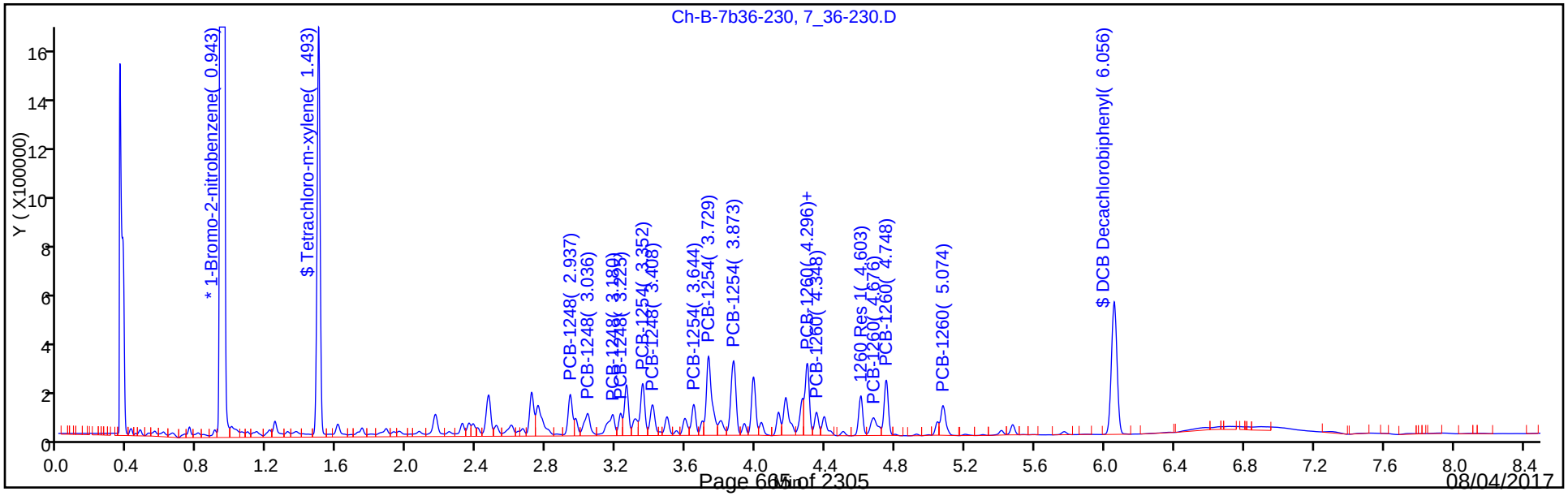
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-230.D

Injection Date:	26-Jul-2017 14:39:38	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-I	Lab Sample ID:	480-121501-3	Worklist Smp#:	16
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 | Lab Sample ID: 480-121501-3

Matrix: Solid | Lab File ID: 7_36-230.D

Analysis Method: 8082A | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.48(g) | Date Analyzed: 07/26/2017 14:39

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.25	0.049
11104-28-2	PCB-1221	ND		0.25	0.049
11141-16-5	PCB-1232	ND		0.25	0.049
53469-21-9	PCB-1242	ND		0.25	0.049
12672-29-6	PCB-1248	0.54		0.25	0.049
11097-69-1	PCB-1254	0.66		0.25	0.12
11096-82-5	PCB-1260	0.48		0.25	0.12
37324-23-5	PCB-1262	ND		0.25	0.12
11100-14-4	PCB-1268	ND		0.25	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	123		60-154
2051-24-3	DCB Decachlorobiphenyl	113		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-230.D
Lims ID: 480-121501-A-3-I
Client ID: TP-11
Sample Type: Client
Inject. Date: 26-Jul-2017 14:39:38 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:18:57 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:18:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.073	1.071	0.002	12922096	0.5000	
2	0.943	0.941	0.001	35776099	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.965	1.966	-0.001	891548	0.0284	
2	1.493	1.491	0.001	1957621	0.0245	
					RPD = 14.50	
10 PCB-1248						
1	3.340	3.338	0.002	151587	0.1276	
1	3.437	3.438	-0.001	63288	0.0641	
1	3.644	3.643	0.002	62006	0.0381	
1	3.683	3.678	0.005	201319	0.1995	
1	3.813	3.821	-0.008	59094	0.0598	
		Average of Peak Amounts =			0.0978	
2	2.937	2.936	0.001	290747	0.1394	
2	3.036	3.036	0.000	225896	0.1135	
2	3.180	3.181	-0.001	248781	0.1179	
2	3.225	3.224	0.001	124801	0.0633	
2	3.408	3.417	-0.009	233841	0.1051	
		Average of Peak Amounts =			0.1078	
					RPD = 9.73	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
11 PCB-1254						
1	3.859	3.859	0.000	208185	0.1489	
1	4.081	4.081	0.000	106677	0.1148	
1	4.160	4.162	-0.002	307023	0.1886	
1	4.355	4.360	-0.005	271243	0.1636	
1	4.764	4.765	-0.001	308384	0.2231	
		Average of Peak Amounts =			0.1678	
2	3.352	3.352	0.000	362934	0.1310	
2	3.644	3.644	0.000	207126	0.1014	
2	3.729	3.730	-0.001	692769	0.1606	
2	3.873	3.867	0.006	601078	0.1367	
2	4.296	4.297	-0.001	502208	0.1353	
		Average of Peak Amounts =			0.1330	
					RPD = 23.13	
12 PCB-1260						
1	4.764	4.764	0.000	308384	0.1823	
1	4.893	4.893	0.000	74545	0.0726	
1	5.083	5.083	0.001	72152	0.0744	
1	5.289	5.288	0.001	176231	0.0749	
1	5.532	5.532	0.000	95591	0.0833	
		Average of Peak Amounts =			0.0975	
2	4.296	4.295	0.001	502208	0.1886	
2	4.348	4.349	-0.001	150213	0.0571	
2	4.676	4.672	0.004	200769	0.1052	
2	4.748	4.748	0.000	372481	0.0627	
2	5.074	5.074	0.000	239659	0.0657	
		Average of Peak Amounts =			0.0959	
					RPD = 1.71	
2 1260 Res 1						
1	5.532	5.532	0.000	95591	NC	
2	4.603	4.603	0.000	256665	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.885	6.907	-0.022	520451	0.0289	
2	6.056	6.056	0.000	1165658	0.0226	
					RPD = 24.52	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

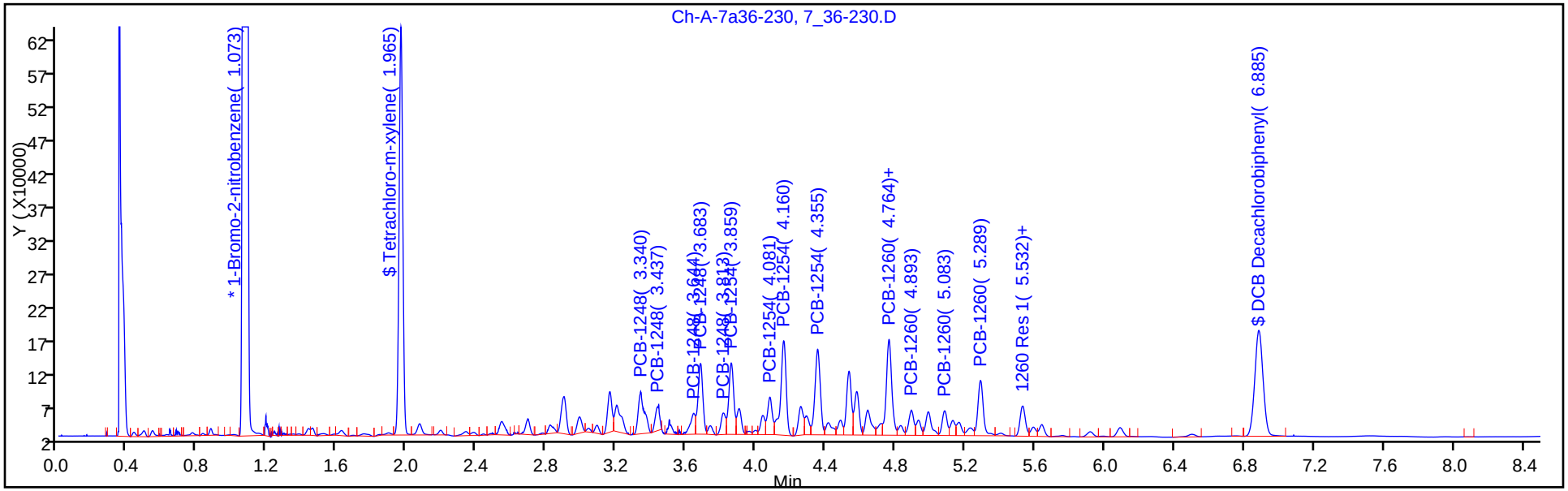
Report Date: 26-Jul-2017 15:18:59 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

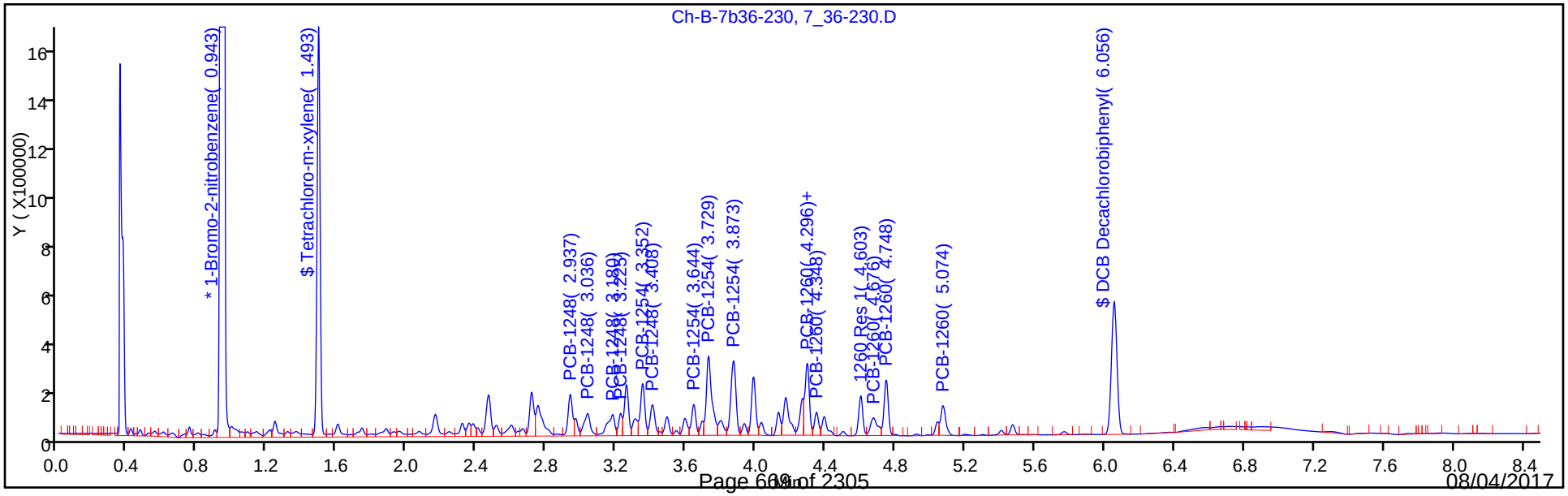
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-230.D

Injection Date:	26-Jul-2017 14:39:38	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-I	Lab Sample ID:	480-121501-3	Worklist Smp#:	16
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-16 | Lab Sample ID: 480-121501-4

Matrix: Solid | Lab File ID: 7_36-240.D

Analysis Method: 8082A | Date Collected: 07/21/2017 14:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.32(g) | Date Analyzed: 07/26/2017 17:20

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	114		60-154
2051-24-3	DCB Decachlorobiphenyl	109		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-240.D
Lims ID: 480-121501-A-4-C
Client ID: TP-16
Sample Type: Client
Inject. Date: 26-Jul-2017 17:20:20 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:29:05 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:29:05

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.072	1.071	0.001	13203778	0.5000	
2	0.942	0.941	0.001	36624172	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.964	1.966	-0.002	735558	0.0228	
2	1.493	1.491	0.001	1530021	0.0187	
					RPD = 19.87	
3 1260 Res 3						
1	5.552	5.538	0.013	619	NC	
2	4.735	4.740	-0.005	7893	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.884	6.907	-0.023	403614	0.0217	
2	6.055	6.056	-0.001	855204	0.0161	
					RPD = 30.05	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

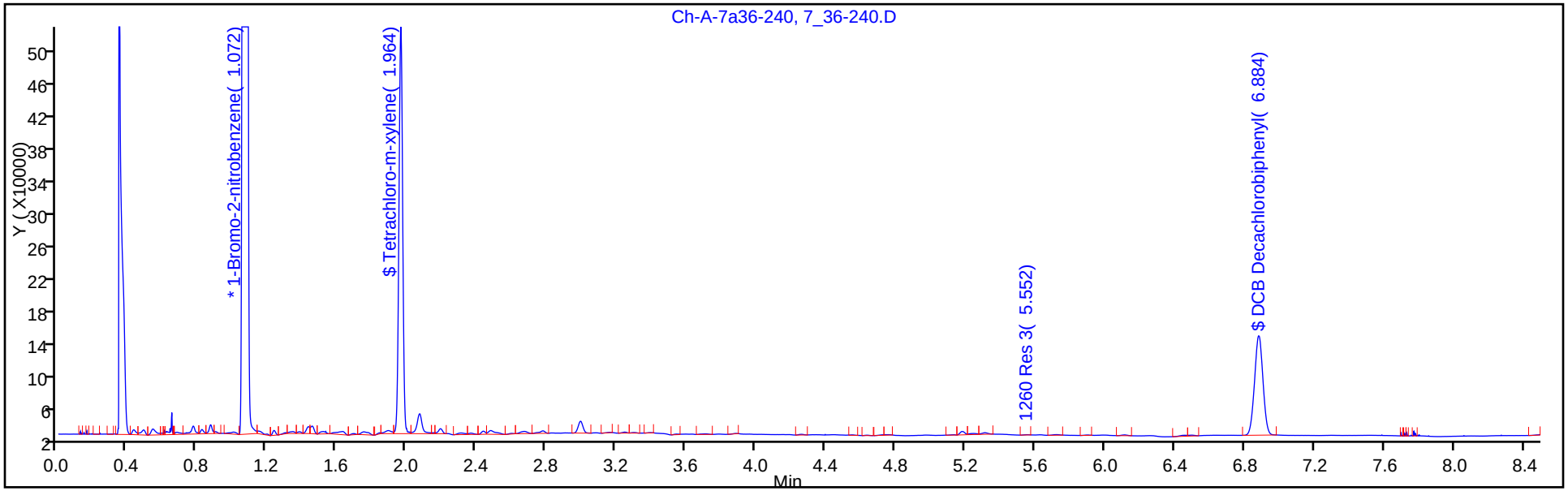
Report Date: 27-Jul-2017 11:29:05 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

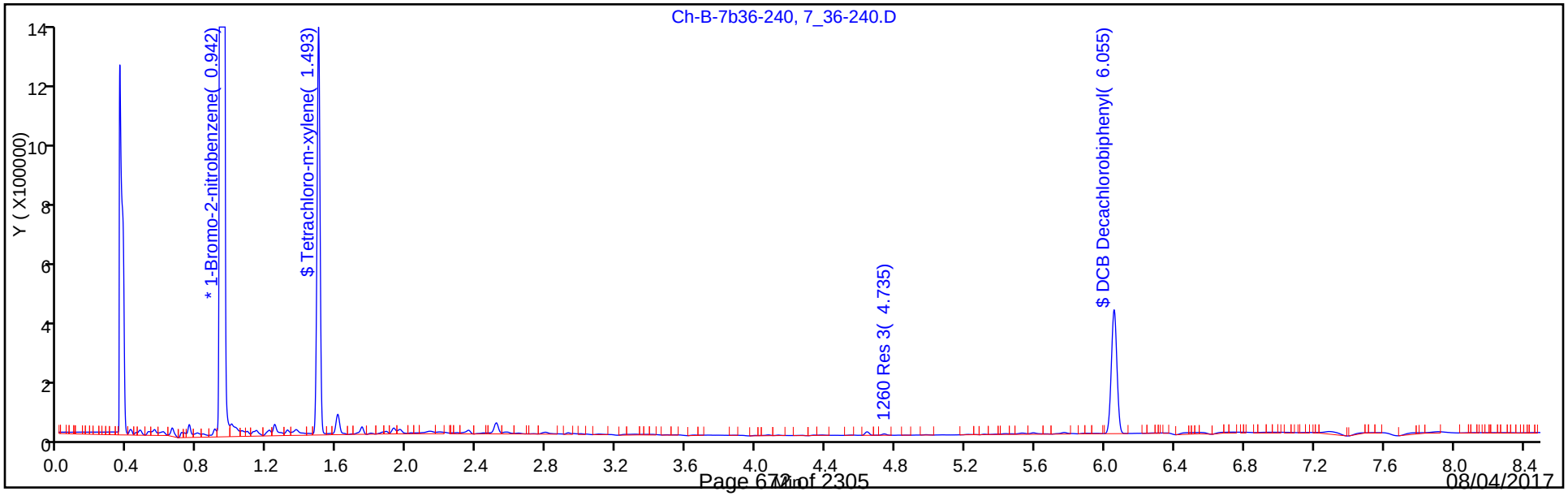
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-240.D

Injection Date:	26-Jul-2017 17:20:20	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-4-C	Lab Sample ID:	480-121501-4	Worklist Smp#:	26
Client ID:	TP-16				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-16 | Lab Sample ID: 480-121501-4

Matrix: Solid | Lab File ID: 7_36-240.D

Analysis Method: 8082A | Date Collected: 07/21/2017 14:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.32(g) | Date Analyzed: 07/26/2017 17:20

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.052
11104-28-2	PCB-1221	ND		0.26	0.052
11141-16-5	PCB-1232	ND		0.26	0.052
53469-21-9	PCB-1242	ND		0.26	0.052
12672-29-6	PCB-1248	ND		0.26	0.052
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		60-154
2051-24-3	DCB Decachlorobiphenyl	80		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-240.D
Lims ID: 480-121501-A-4-C
Client ID: TP-16
Sample Type: Client
Inject. Date: 26-Jul-2017 17:20:20 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:29:05 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:29:05

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.072	1.071	0.001	13203778	0.5000	
2	0.942	0.941	0.001	36624172	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.964	1.966	-0.002	735558	0.0228	
2	1.493	1.491	0.001	1530021	0.0187	
					RPD = 19.87	
3 1260 Res 3						
1	5.552	5.538	0.013	619	NC	
2	4.735	4.740	-0.005	7893	NC	
$ 15 DCB Decachlorobiphenyl						
1	6.884	6.907	-0.023	403614	0.0217	
2	6.055	6.056	-0.001	855204	0.0161	
					RPD = 30.05	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

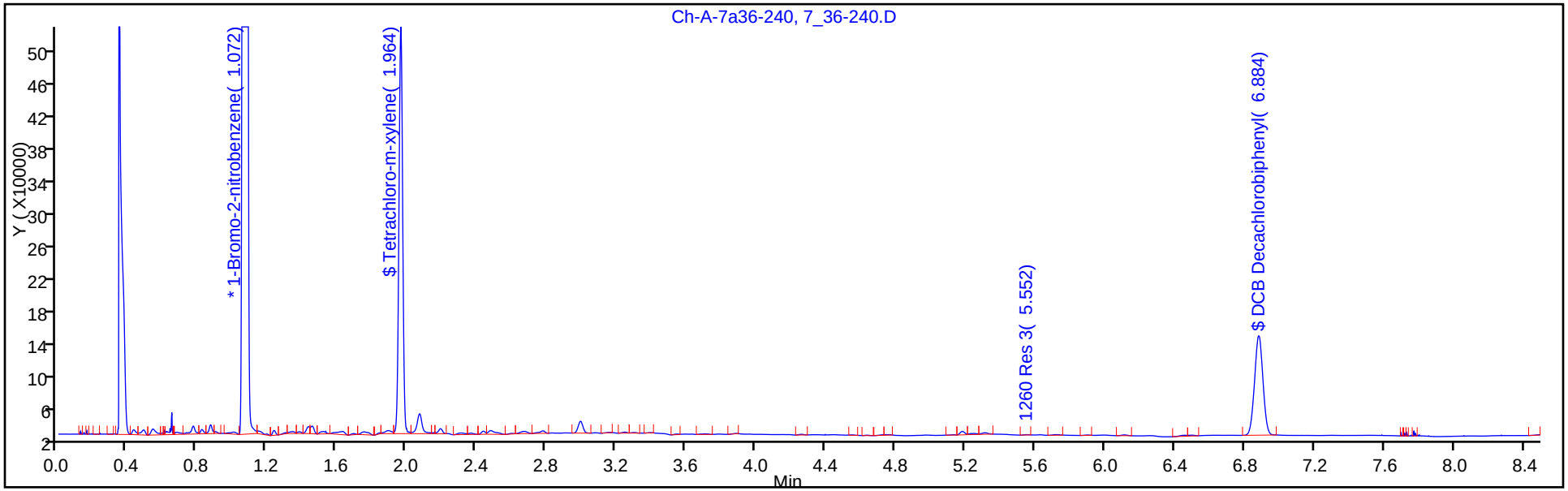
Report Date: 27-Jul-2017 11:29:06 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

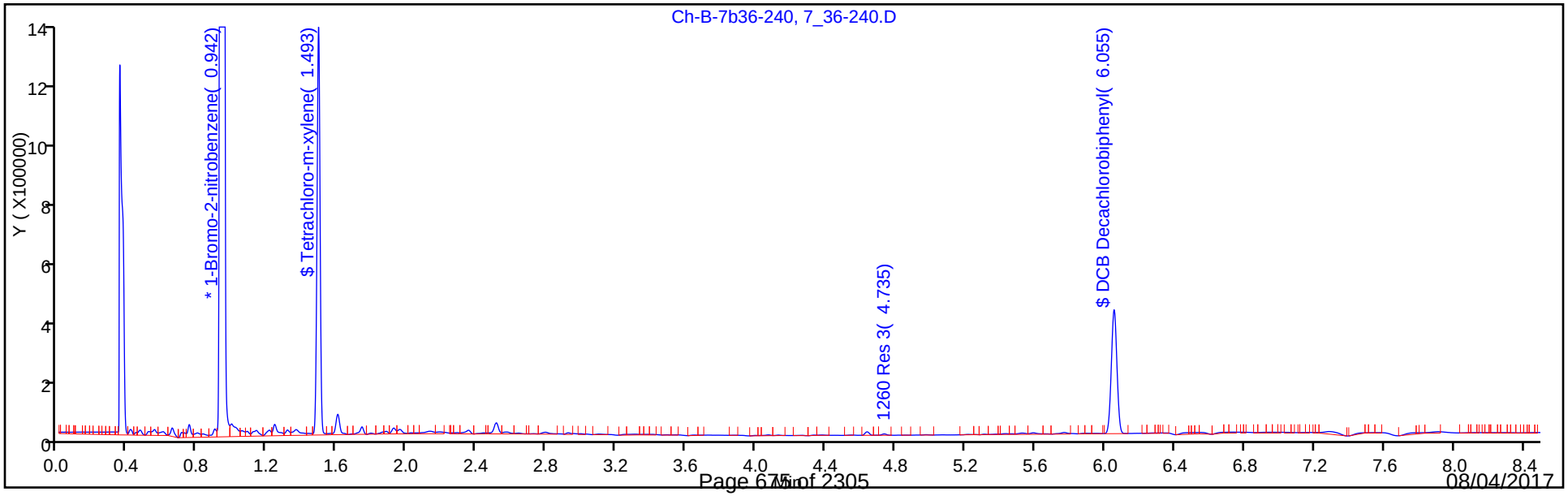
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-240.D

Injection Date:	26-Jul-2017 17:20:20	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-4-C	Lab Sample ID:	480-121501-4	Worklist Smp#:	26
Client ID:	TP-16				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-17 | Lab Sample ID: 480-121501-5

Matrix: Solid | Lab File ID: 7_36-241.D

Analysis Method: 8082A | Date Collected: 07/21/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.31(g) | Date Analyzed: 07/26/2017 17:36

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	128		60-154
2051-24-3	DCB Decachlorobiphenyl	118		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-241.D
Lims ID: 480-121501-A-5-C
Client ID: TP-17
Sample Type: Client
Inject. Date: 26-Jul-2017 17:36:26 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:29:10 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:29:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.072	1.071	0.001	12721106	0.5000	
2	0.941	0.941	0.000	34831217	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.964	1.966	-0.002	793083	0.0256	
2	1.492	1.491	0.001	1721232	0.0221	
					RPD = 14.45	
$ 15 DCB Decachlorobiphenyl						
1	6.887	6.907	-0.020	419392	0.0235	
2	6.056	6.056	0.000	875760	0.0173	
					RPD = 30.27	

Reagents:

COPPER_00065 Amount Added: 1.00 Units: g Run Reagent
PCB IS 1B2NB_00037 Amount Added: 10.00 Units: uL Run Reagent

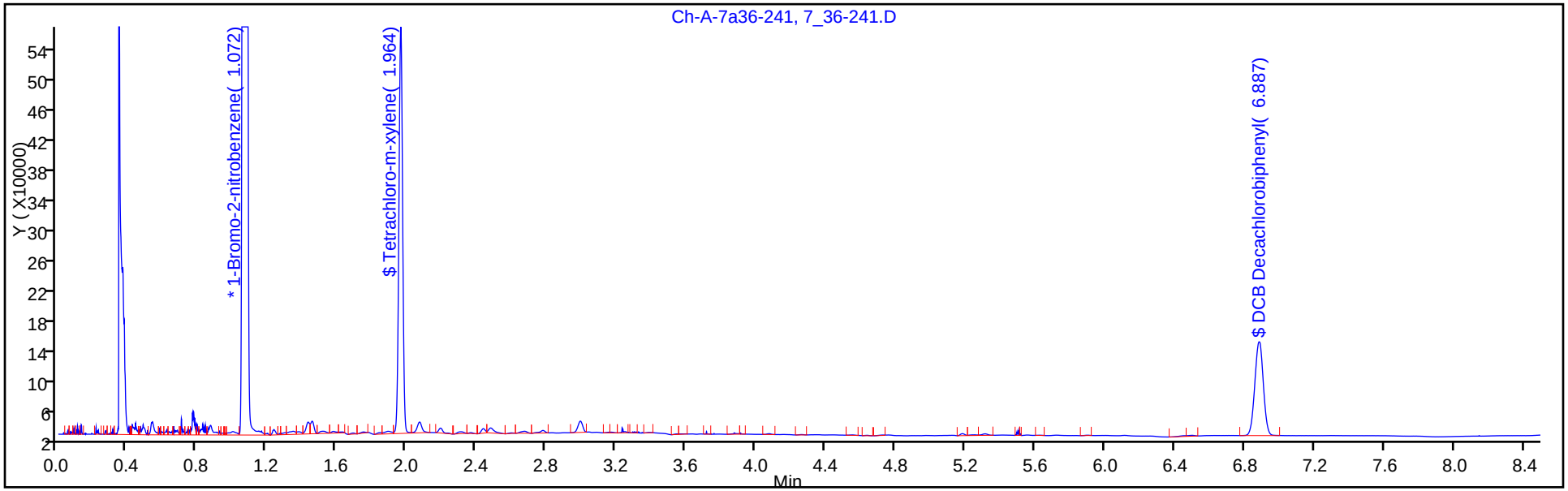
Report Date: 27-Jul-2017 11:29:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

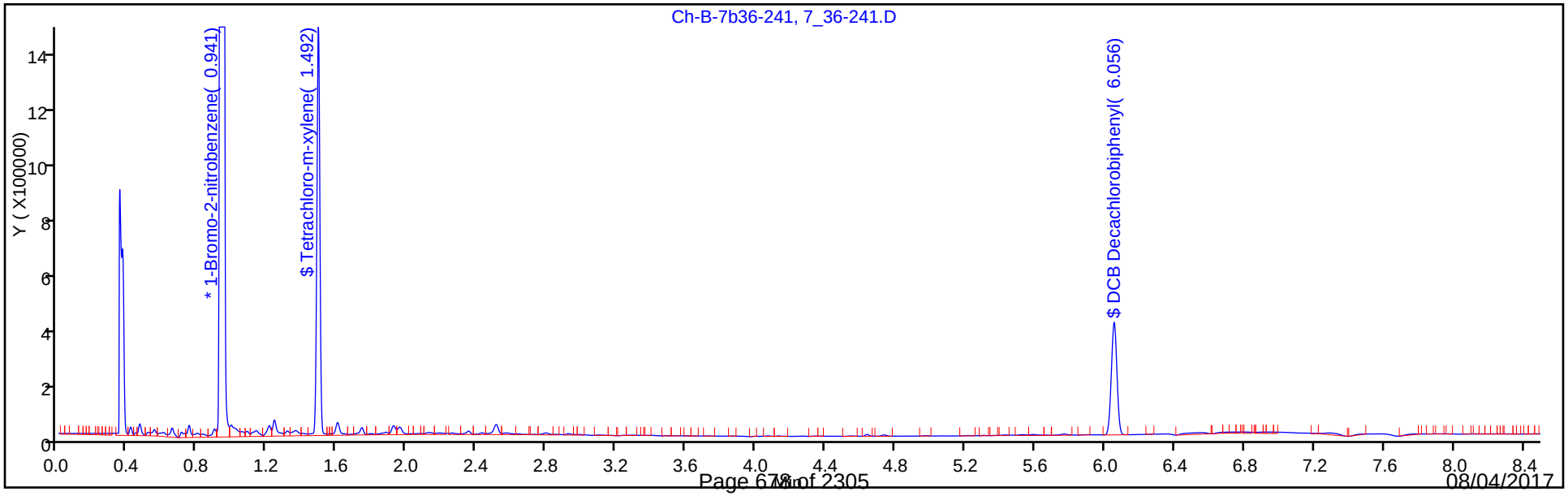
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-241.D

Injection Date:	26-Jul-2017 17:36:26	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-5-C	Lab Sample ID:	480-121501-5	Worklist Smp#:	27
Client ID:	TP-17				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-17 | Lab Sample ID: 480-121501-5

Matrix: Solid | Lab File ID: 7_36-241.D

Analysis Method: 8082A | Date Collected: 07/21/2017 13:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.31(g) | Date Analyzed: 07/26/2017 17:36

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 17.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.26	0.051
11104-28-2	PCB-1221	ND		0.26	0.051
11141-16-5	PCB-1232	ND		0.26	0.051
53469-21-9	PCB-1242	ND		0.26	0.051
12672-29-6	PCB-1248	ND		0.26	0.051
11097-69-1	PCB-1254	ND		0.26	0.12
11096-82-5	PCB-1260	ND		0.26	0.12
37324-23-5	PCB-1262	ND		0.26	0.12
11100-14-4	PCB-1268	ND		0.26	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	111		60-154
2051-24-3	DCB Decachlorobiphenyl	87		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-241.D
Lims ID: 480-121501-A-5-C
Client ID: TP-17
Sample Type: Client
Inject. Date: 26-Jul-2017 17:36:26 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:29:10 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:29:10

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.072	1.071	0.001	12721106	0.5000	
2	0.941	0.941	0.000	34831217	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.964	1.966	-0.002	793083	0.0256	
2	1.492	1.491	0.001	1721232	0.0221	
					RPD = 14.45	
$ 15 DCB Decachlorobiphenyl						
1	6.887	6.907	-0.020	419392	0.0235	
2	6.056	6.056	0.000	875760	0.0173	
					RPD = 30.27	

Reagents:

COPPER_00065 Amount Added: 1.00 Units: g Run Reagent
PCB IS 1B2NB_00037 Amount Added: 10.00 Units: uL Run Reagent

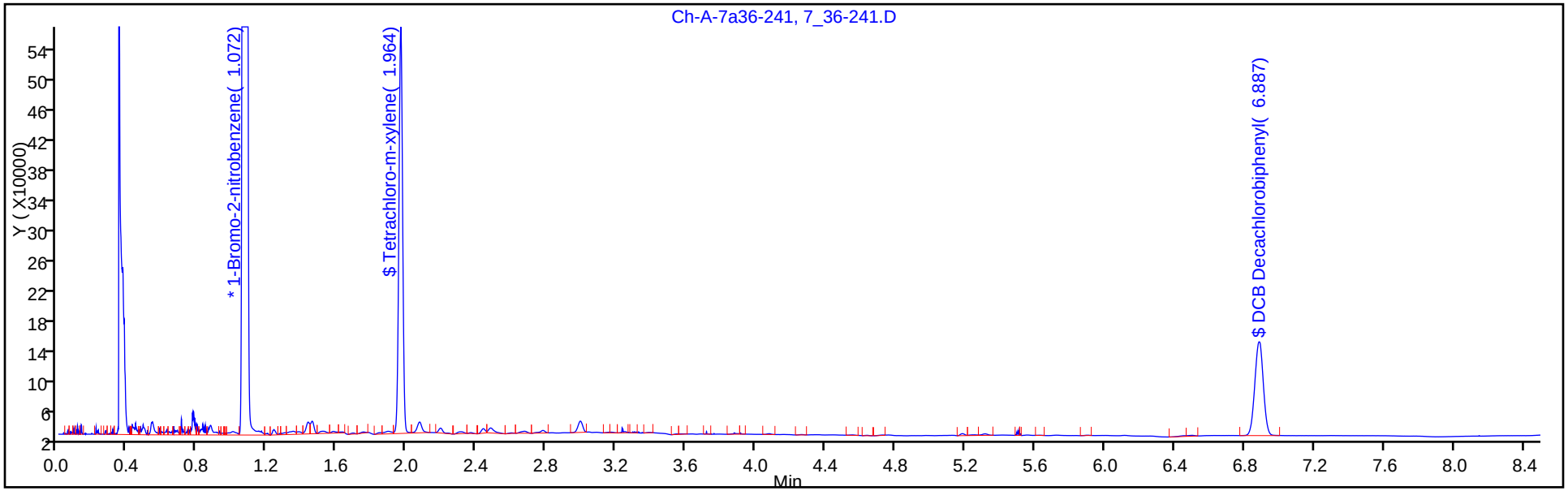
Report Date: 27-Jul-2017 11:29:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

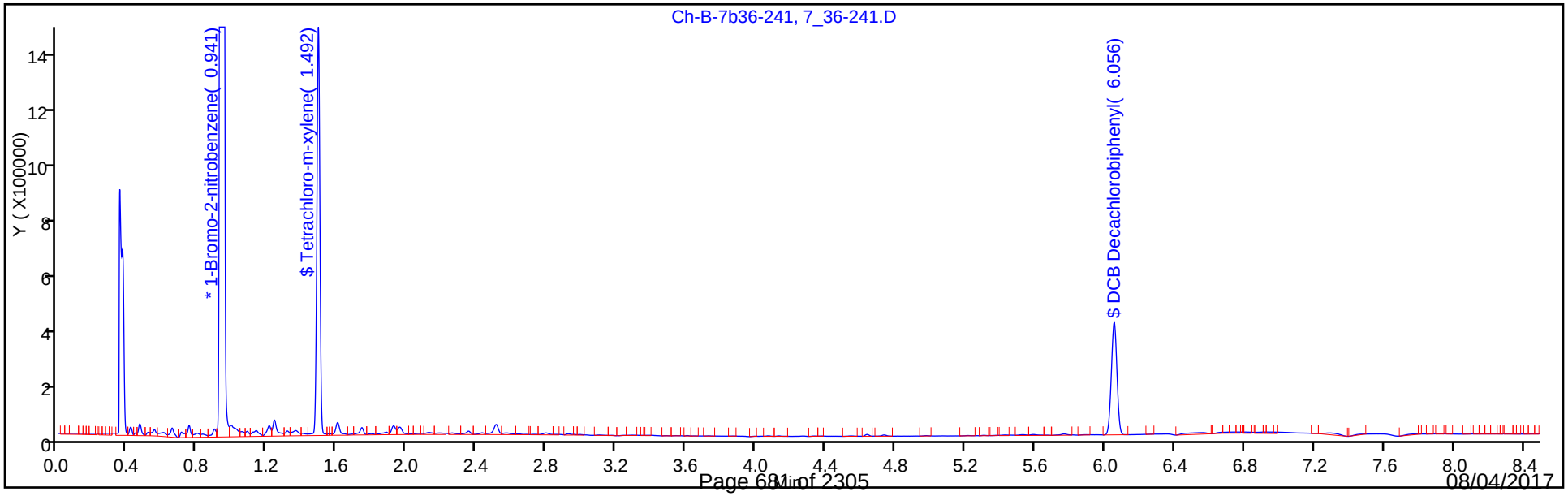
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-241.D

Injection Date:	26-Jul-2017 17:36:26	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-5-C	Lab Sample ID:	480-121501-5	Worklist Smp#:	27
Client ID:	TP-17				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121501-6

Matrix: Solid | Lab File ID: 7_36-242.D

Analysis Method: 8082A | Date Collected: 07/21/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.46(g) | Date Analyzed: 07/26/2017 17:52

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	152		60-154
2051-24-3	DCB Decachlorobiphenyl	157		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-242.D
Lims ID: 480-121501-A-6-C
Client ID: DUP
Sample Type: Client
Inject. Date: 26-Jul-2017 17:52:29 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:29:17 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:29:17

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.071	1.071	0.000	12875205	0.5000	
2	0.941	0.941	0.000	35417822	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.963	1.966	-0.003	950325	0.0304	
2	1.492	1.491	0.001	2038125	0.0258	
					RPD = 16.28	
$ 15 DCB Decachlorobiphenyl						
1	6.888	6.907	-0.019	563109	0.0314	
2	6.055	6.056	-0.001	1210210	0.0237	
					RPD = 28.05	

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

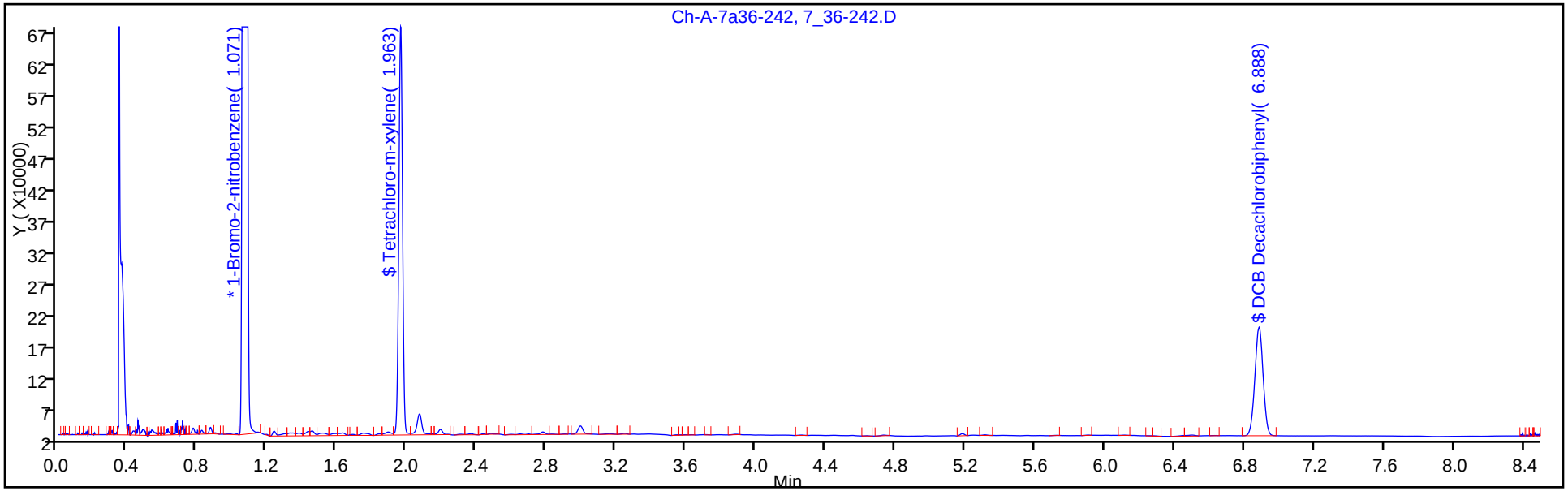
Report Date: 27-Jul-2017 11:29:18 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

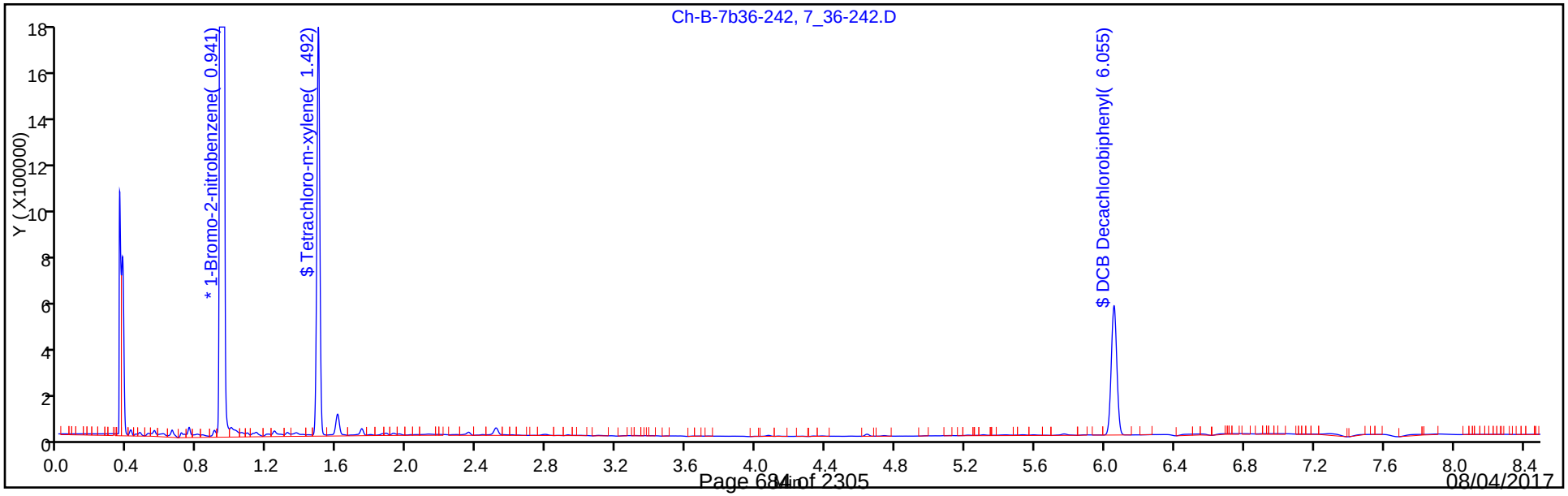
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-242.D

Injection Date:	26-Jul-2017 17:52:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-6-C	Lab Sample ID:	480-121501-6	Worklist Smp#:	28
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-121501-6

Matrix: Solid | Lab File ID: 7_36-242.D

Analysis Method: 8082A | Date Collected: 07/21/2017 00:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.46(g) | Date Analyzed: 07/26/2017 17:52

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 16.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.24	0.047
11104-28-2	PCB-1221	ND		0.24	0.047
11141-16-5	PCB-1232	ND		0.24	0.047
53469-21-9	PCB-1242	ND		0.24	0.047
12672-29-6	PCB-1248	ND		0.24	0.047
11097-69-1	PCB-1254	ND		0.24	0.11
11096-82-5	PCB-1260	ND		0.24	0.11
37324-23-5	PCB-1262	ND		0.24	0.11
11100-14-4	PCB-1268	ND		0.24	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	129		60-154
2051-24-3	DCB Decachlorobiphenyl	118		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-242.D
Lims ID: 480-121501-A-6-C
Client ID: DUP
Sample Type: Client
Inject. Date: 26-Jul-2017 17:52:29 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 27-Jul-2017 11:29:17 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK009

First Level Reviewer: owenj Date: 27-Jul-2017 11:29:17

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.071	1.071	0.000	12875205	0.5000	
2	0.941	0.941	0.000	35417822	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	1.963	1.966	-0.003	950325	0.0304	
2	1.492	1.491	0.001	2038125	0.0258	
					RPD = 16.28	
$ 15 DCB Decachlorobiphenyl						
1	6.888	6.907	-0.019	563109	0.0314	
2	6.055	6.056	-0.001	1210210	0.0237	
					RPD = 28.05	

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

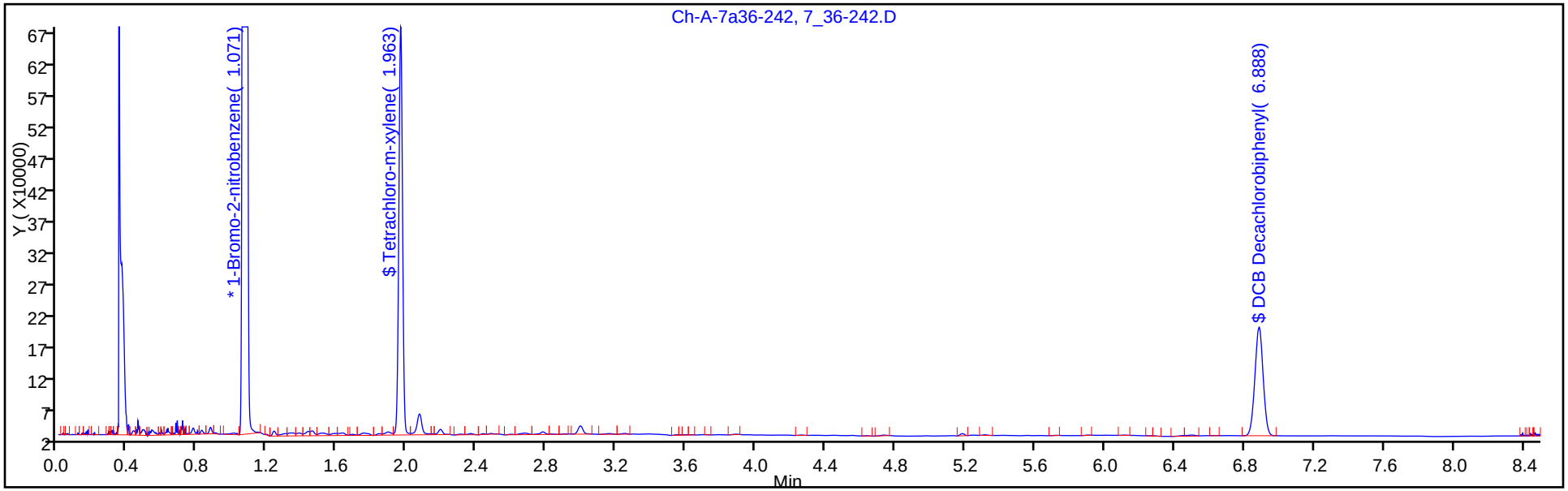
Report Date: 27-Jul-2017 11:29:18 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

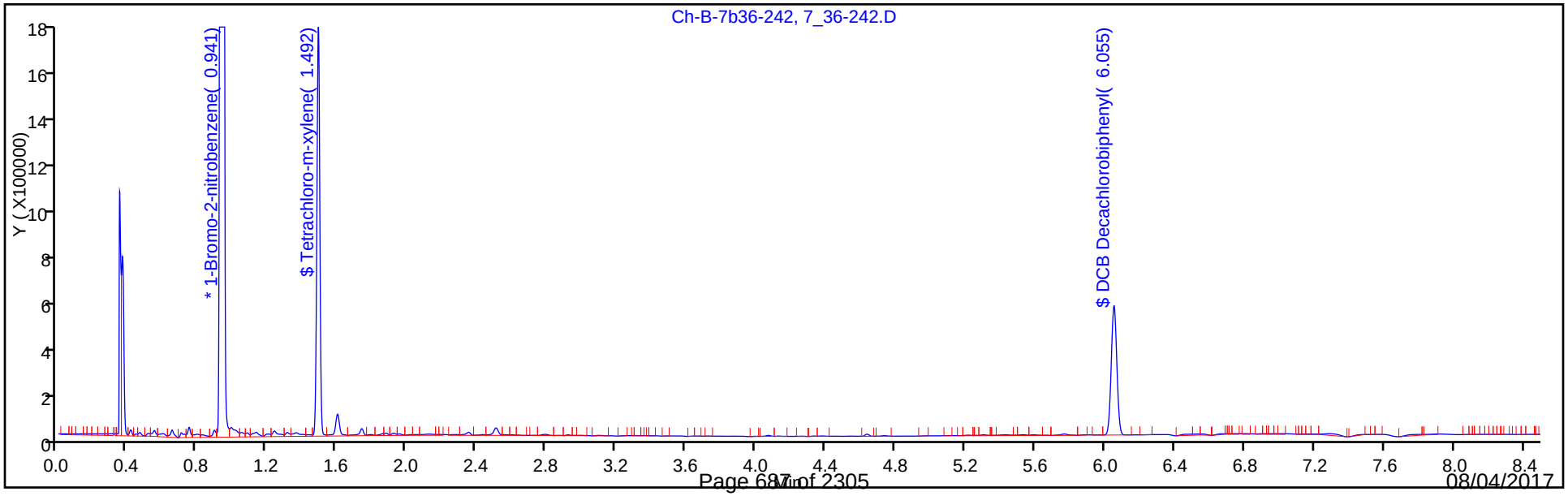
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-242.D

Injection Date:	26-Jul-2017 17:52:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-6-C	Lab Sample ID:	480-121501-6	Worklist Smp#:	28
Client ID:	DUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30036

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0727 0.0377	0.0494 0.0361	0.0465	0.0424	0.0394	Lin1	0.0008	0.0365							0.9990		0.9900
PCB-1016 Peak 2	0.0585 0.0232	0.0298 0.0223	0.0283	0.0258	0.0242	Lin1	0.0006	0.0222							0.9990		0.9900
PCB-1016 Peak 3	0.1077 0.0804	0.0925 0.0789	0.0895	0.0843	0.0825	Lin1	0.0007	0.0794							1.0000		0.9900
PCB-1016 Peak 4	0.0511 0.0299	0.0386 0.0293	0.0358	0.0325	0.0310	Lin1	0.0005	0.0293							1.0000		0.9900
PCB-1016 Peak 5	0.0291 0.0206	0.0253 0.0204	0.0242	0.0220	0.0213	Lin1	0.0002	0.0205							1.0000		0.9900
PCB-1260 Peak 1	0.0967 0.0619	0.0726 0.0627	0.0693	0.0646	0.0627	Lin1	0.0006	0.0619							1.0000		0.9900
PCB-1260 Peak 2	0.0510 0.0347	0.0421 0.0351	0.0401	0.0371	0.0351	Lin1	0.0004	0.0348							1.0000		0.9900
PCB-1260 Peak 3	0.0488 0.0327	0.0400 0.0332	0.0377	0.0351	0.0333	Lin1	0.0003	0.0328							1.0000		0.9900
PCB-1260 Peak 4	0.1164 0.0835	0.0939 0.0834	0.0883	0.0855	0.0833	Lin1	0.0006	0.0829							1.0000		0.9900
PCB-1260 Peak 5	0.0612 0.0390	0.0474 0.0395	0.0445	0.0418	0.0393	Lin1	0.0004	0.0390							1.0000		0.9900
Tetrachloro-m-xylene	2.3376 1.2380	1.5476 1.1922	1.4647	1.3455	1.2499	Lin1	0.0006	1.1960							1.0000		0.9900
DCB Decachlorobiphenyl	1.7081 0.7011	0.9136 0.6860	0.8692	0.8076	0.7337	Lin1	0.0005	0.6816							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30036

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	40090 1069406	70180 1990674	131166	240440	559237	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	32281 657284	42348 1229448	79759	146148	343391	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	59419 2281855	131470 4351045	252373	477683	1171814	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	28193 847778	54848 1614519	101002	183983	439612	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	16055 585173	35957 1125851	68213	124672	302019	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	53350 1757860	103183 3456088	195331	366134	889920	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	28146 985992	59743 1936068	113127	209980	497820	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	26897 928651	56806 1828525	106177	198801	472274	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	64230 2370953	133445 4599282	248968	484581	1182397	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	33766 1105773	67285 2179578	125509	236680	558396	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	32243 878514	54964 1643301	103225	190560	443674	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	23559 497557	32445 945567	61259	114381	260424	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Mar-2017 12:44:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:37 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 13:28:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13783622	0.5000	0.5000	
2	1.050	1.049	0.001	25196320	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.091	0.000	1643301	0.0500	0.0494	M
2	1.630	1.630	0.000	2759910	0.0500	0.0493	
						RPD = 0.19	
9 PCB-1016							M
1	2.680	2.680	0.000	1990674	2.00	1.96	
1	2.833	2.833	0.000	1229448	2.00	1.98	
1	3.038	3.038	0.000	4351045	2.00	1.98	
1	3.124	3.124	0.000	1614519	2.00	1.98	
1	3.188	3.188	0.000	1125851	2.00	1.98	
		Average of Peak Amounts =				1.98	
2	2.323	2.322	0.000	3225340	2.00	1.95	M
2	2.630	2.629	0.001	6960596	2.00	1.97	M
2	2.741	2.740	0.001	2614031	2.00	1.96	M
2	2.833	2.832	0.000	1765496	2.00	1.97	M
2	3.108	3.108	0.000	3029614	2.00	1.96	M
		Average of Peak Amounts =				1.96	
						RPD = 0.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	3456088	2.00	2.02	
1	5.049	5.050	-0.001	1936068	2.00	2.01	
1	5.243	5.241	0.001	1828525	2.00	2.01	
1	5.448	5.448	0.000	4599282	2.00	2.01	
1	5.705	5.704	0.001	2179578	2.00	2.02	
		Average of Peak Amounts =				2.01	
2	4.474	4.473	0.001	3578378	2.00	2.00	M
2	4.526	4.525	0.001	3267180	2.00	2.00	M
2	4.852	4.850	0.002	2555055	2.00	2.00	M
2	4.926	4.925	0.001	8387014	2.00	2.03	M
2	5.256	5.256	0.000	5066416	2.00	2.03	M
		Average of Peak Amounts =				2.01	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							M
1	7.176	7.173	0.003	945567	0.0500	0.0496	
2	6.309	6.309	0.000	1802857	0.0500	0.0500	M
						RPD = 0.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00005 Amount Added: 1.00 Units: mL

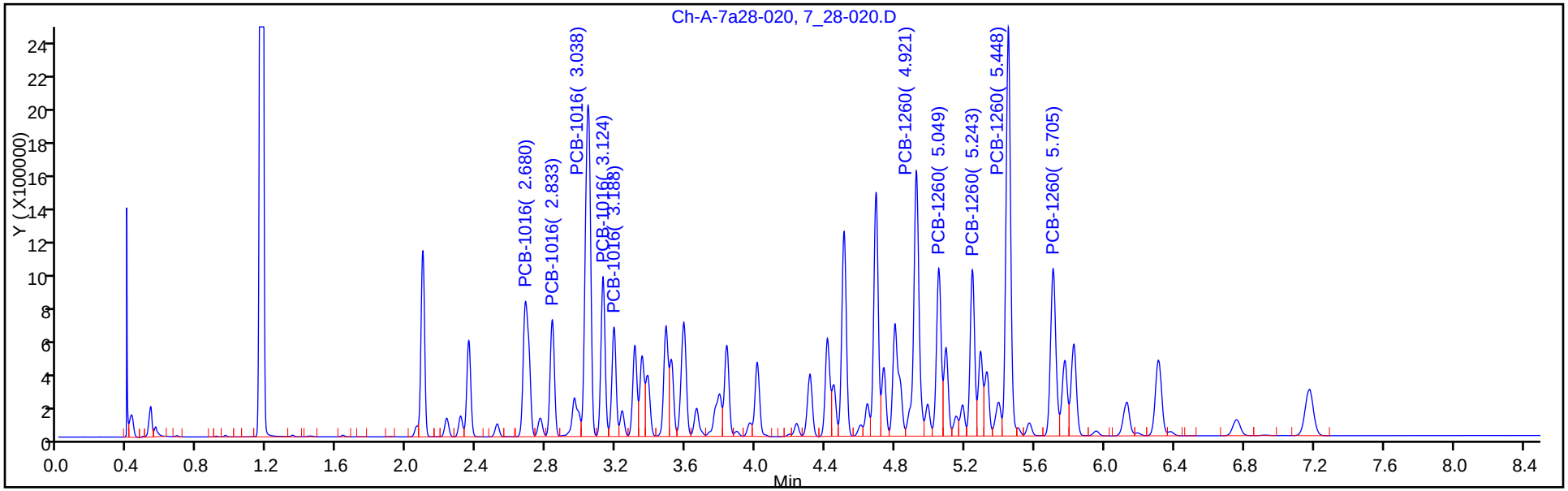
Report Date: 29-Mar-2017 10:53:38 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

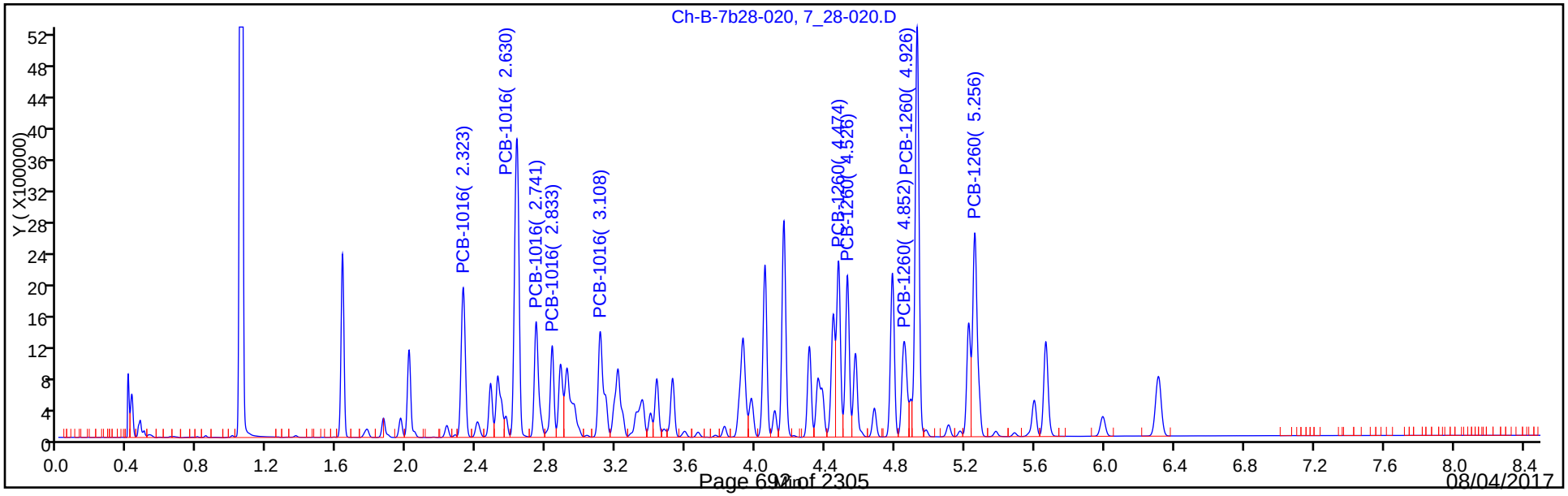
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date:	28-Mar-2017 12:44:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

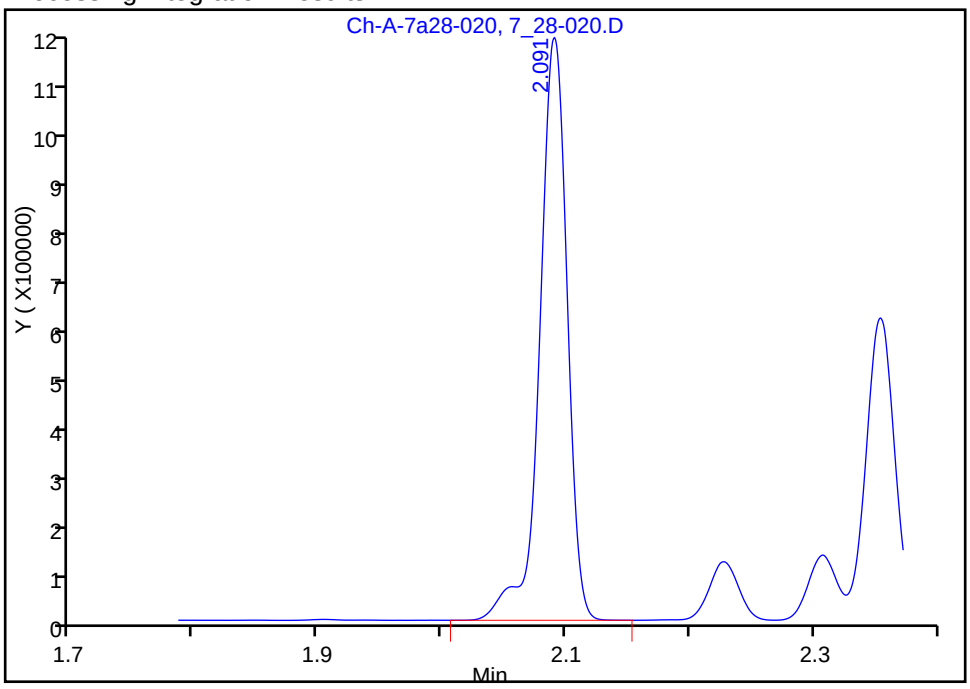
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

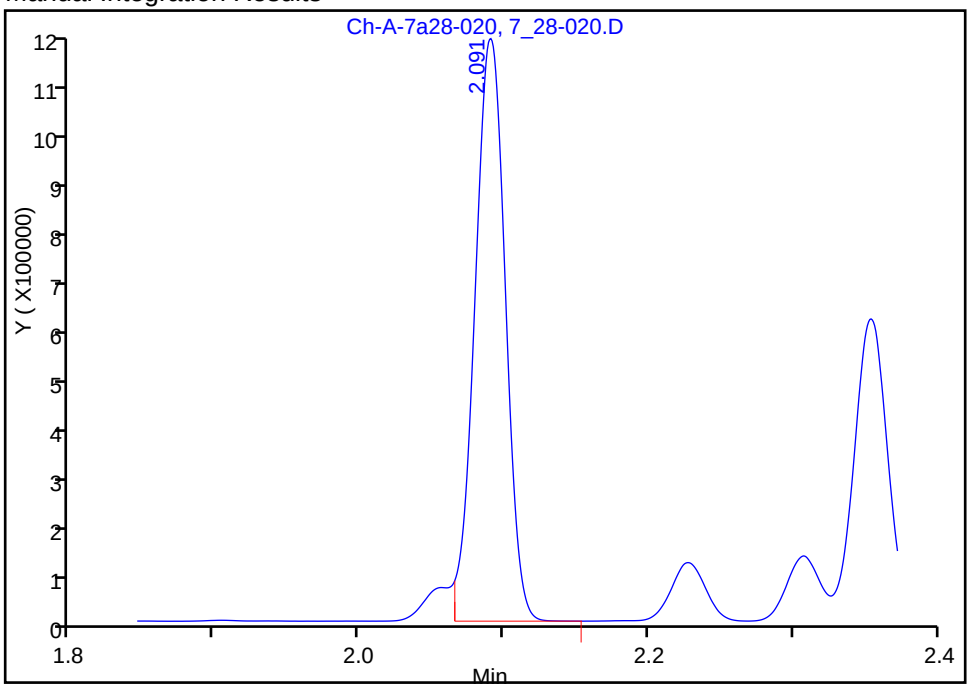
Processing Integration Results

RT: 2.09
Area: 1735709
Amount: 0.050426
Amount Units: ng/uL



Manual Integration Results

RT: 2.09
Area: 1643301
Amount: 0.049368
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 13:28:05
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Mar-2017 13:00:25 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:41 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	14192996	0.5000	0.5000	
2	1.051	1.049	0.002	25860623	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.091	2.091	0.000	878514	0.0250	0.0254	
2	1.630	1.630	0.000	1443081	0.0250	0.0250	
						RPD = 1.51	
9 PCB-1016							M
1	2.680	2.680	0.000	1069406	1.00	1.01	
1	2.833	2.833	0.000	657284	1.00	1.01	
1	3.037	3.038	-0.001	2281855	1.00	1.00	
1	3.124	3.124	0.000	847778	1.00	1.00	
1	3.188	3.188	0.000	585173	1.00	1.00	
		Average of Peak Amounts =				1.01	
2	2.322	2.322	0.000	1750650	1.00	1.02	M
2	2.630	2.629	0.001	3648843	1.00	1.00	M
2	2.740	2.740	0.000	1382864	1.00	1.00	M
2	2.833	2.832	0.000	930174	1.00	1.00	M
2	3.108	3.108	0.000	1590176	1.00	1.00	M
		Average of Peak Amounts =				1.01	
						RPD = 0.01	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	1757860	1.00	0.99	
1	5.049	5.050	-0.001	985992	1.00	0.9889	
1	5.243	5.241	0.001	928651	1.00	0.9864	
1	5.448	5.448	0.000	2370953	1.00	1.00	
1	5.705	5.704	0.001	1105773	1.00	0.9872	
		Average of Peak Amounts =				0.99	
2	4.475	4.473	0.002	1832024	1.00	0.99	M
2	4.526	4.525	0.001	1681113	1.00	1.00	M
2	4.853	4.850	0.002	1316272	1.00	1.00	M
2	4.926	4.925	0.001	4197806	1.00	0.9885	M
2	5.256	5.256	0.000	2530850	1.00	0.9857	M
		Average of Peak Amounts =				0.99	
						RPD = 0.22	
$ 15 DCB Decachlorobiphenyl							
1	7.176	7.173	0.003	497557	0.0250	0.0250	
2	6.310	6.309	0.001	932252	0.0250	0.0250	
						RPD = 0.14	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00006 Amount Added: 1.00 Units: mL

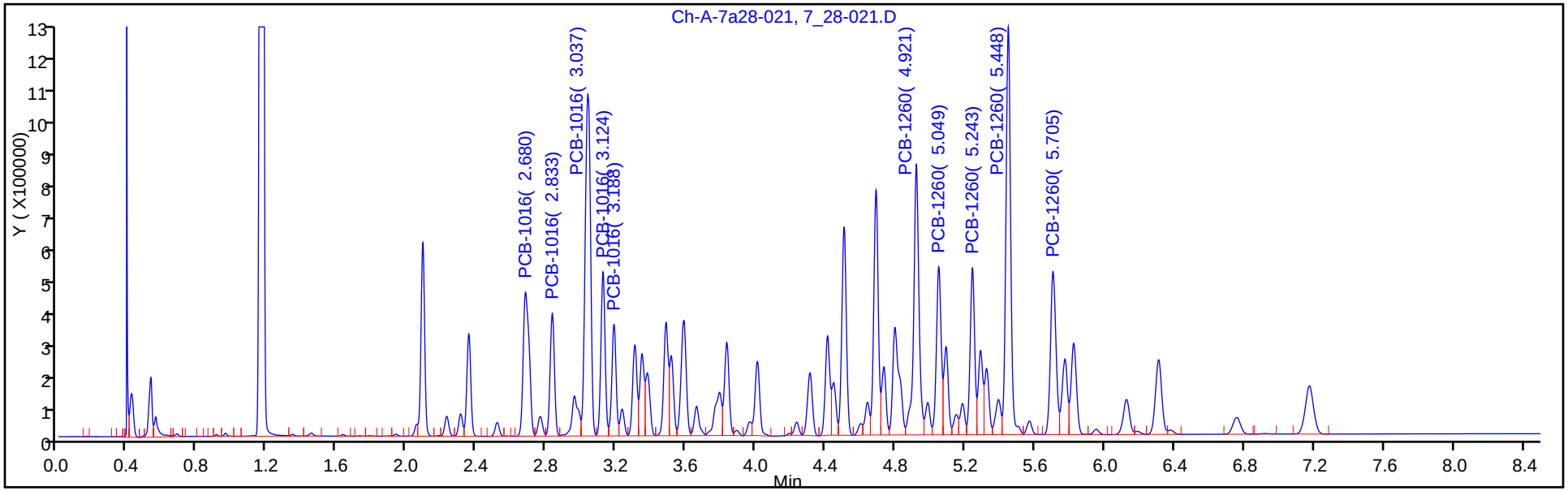
Report Date: 29-Mar-2017 10:53:41 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

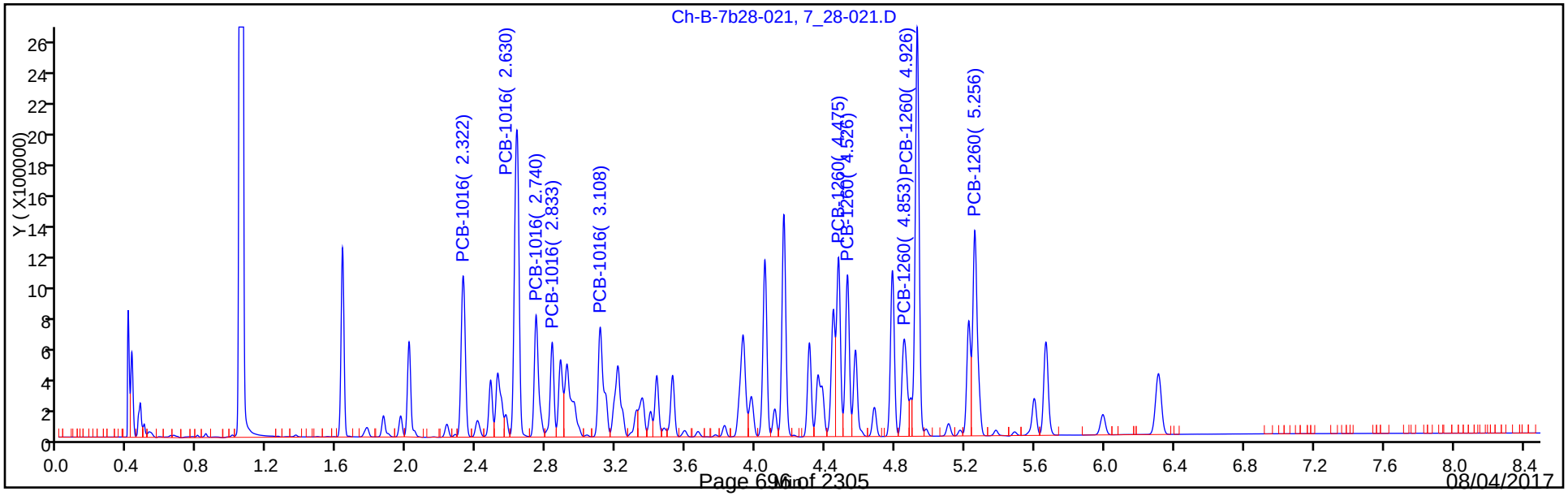
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date:	28-Mar-2017 13:00:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-Mar-2017 13:16:37 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:26

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14198667	0.5000	0.5000	
2	1.050	1.050	0.000	25919091	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.092	2.092	0.000	443674	0.0125	0.0126	
2	1.629	1.629	0.000	736370	0.0125	0.0127	
						RPD = 0.55	
9 PCB-1016							M
1	2.681	2.681	0.000	559237	0.5000	0.5184	
1	2.834	2.834	0.000	343391	0.5000	0.5153	
1	3.038	3.038	0.000	1171814	0.5000	0.5111	
1	3.126	3.126	0.000	439612	0.5000	0.5111	
1	3.188	3.188	0.000	302019	0.5000	0.5088	
		Average of Peak Amounts =				0.5129	
2	2.322	2.322	0.000	924630	0.5000	0.5229	M
2	2.631	2.631	0.000	1883383	0.5000	0.5098	M
2	2.741	2.741	0.000	717244	0.5000	0.5121	M
2	2.833	2.833	0.000	478556	0.5000	0.5090	M
2	3.108	3.108	0.000	824152	0.5000	0.5114	M
		Average of Peak Amounts =				0.5131	
						RPD = 0.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	889920	0.5000	0.4959	
1	5.051	5.051	0.000	497820	0.5000	0.4940	
1	5.243	5.243	0.000	472274	0.5000	0.4962	
1	5.449	5.449	0.000	1182397	0.5000	0.4951	
1	5.706	5.706	0.000	558396	0.5000	0.4927	
		Average of Peak Amounts =				0.4948	
2	4.474	4.474	0.000	937560	0.5000	0.5023	M
2	4.526	4.526	0.000	846078	0.5000	0.4970	M
2	4.850	4.850	0.000	654832	0.5000	0.4930	M
2	4.926	4.926	0.000	2070270	0.5000	0.4860	M
2	5.256	5.256	0.000	1260909	0.5000	0.4890	M
		Average of Peak Amounts =				0.4935	
						RPD = 0.26	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.000	260424	0.0125	0.0128	
2	6.310	6.310	0.000	476855	0.0125	0.0126	
						RPD = 1.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00005 Amount Added: 1.00 Units: mL

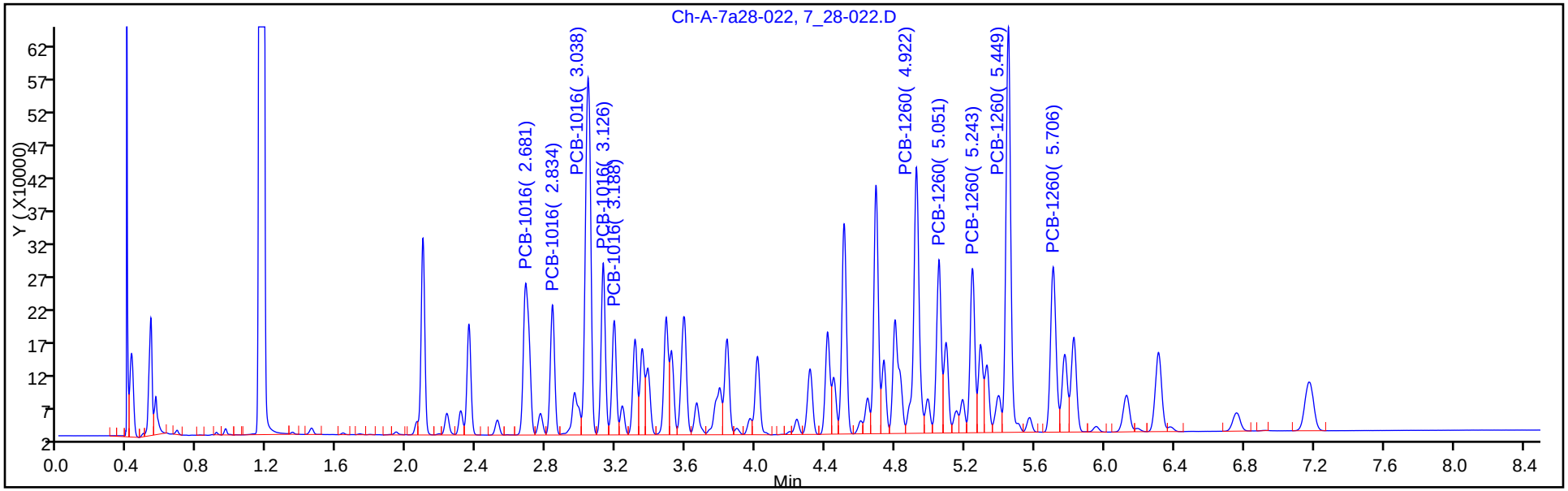
Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

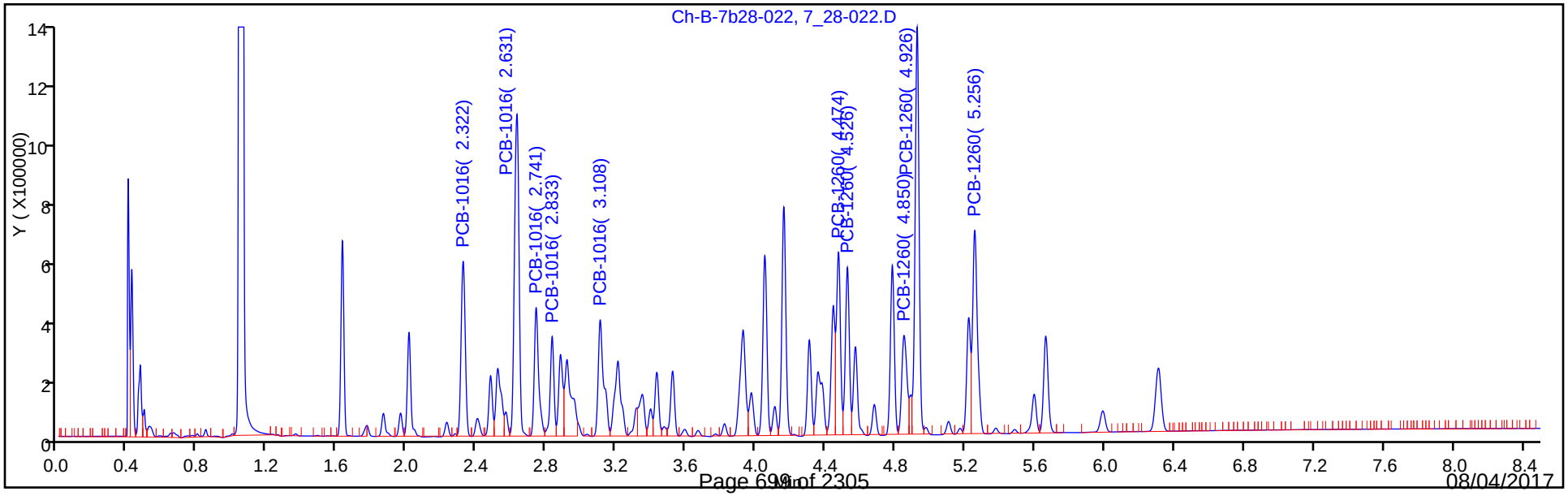
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date:	28-Mar-2017 13:16:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Mar-2017 13:32:29 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14162788	0.5000	0.5000	
2	1.050	1.050	0.000	25970868	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	190560	0.005000	0.005152	
2	1.629	1.629	0.000	314174	0.005000	0.005296	
						RPD = 2.77	
9 PCB-1016							M
1	2.679	2.681	-0.002	240440	0.2000	0.2113	
1	2.833	2.834	-0.001	146148	0.2000	0.2034	
1	3.038	3.038	0.000	477683	0.2000	0.2038	
1	3.124	3.126	-0.002	183983	0.2000	0.2049	
1	3.187	3.188	-0.001	124672	0.2000	0.2042	
		Average of Peak Amounts =				0.2055	
2	2.322	2.322	0.000	407072	0.2000	0.2144	M
2	2.630	2.631	-0.001	801927	0.2000	0.2095	M
2	2.740	2.741	-0.001	312839	0.2000	0.2140	M
2	2.832	2.833	0.000	208461	0.2000	0.2145	M
2	3.107	3.108	-0.001	357784	0.2000	0.2152	M
		Average of Peak Amounts =				0.2135	
						RPD = 3.82	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.922	-0.001	366134	0.2000	0.1984	
1	5.050	5.051	-0.001	209980	0.2000	0.2029	
1	5.242	5.243	0.000	198801	0.2000	0.2032	
1	5.447	5.449	-0.002	484581	0.2000	0.1990	
1	5.704	5.706	-0.002	236680	0.2000	0.2027	
		Average of Peak Amounts =				0.2013	
2	4.473	4.474	-0.001	388118	0.2000	0.2015	M
2	4.525	4.526	-0.001	355175	0.2000	0.2037	M
2	4.851	4.850	0.001	278936	0.2000	0.2064	M
2	4.925	4.926	-0.001	839381	0.2000	0.1962	M
2	5.255	5.256	-0.001	513815	0.2000	0.1978	M
		Average of Peak Amounts =				0.2011	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.001	114381	0.005000	0.005241	
2	6.309	6.310	-0.001	197094	0.005000	0.004970	
						RPD = 5.30	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00005 Amount Added: 1.00 Units: mL

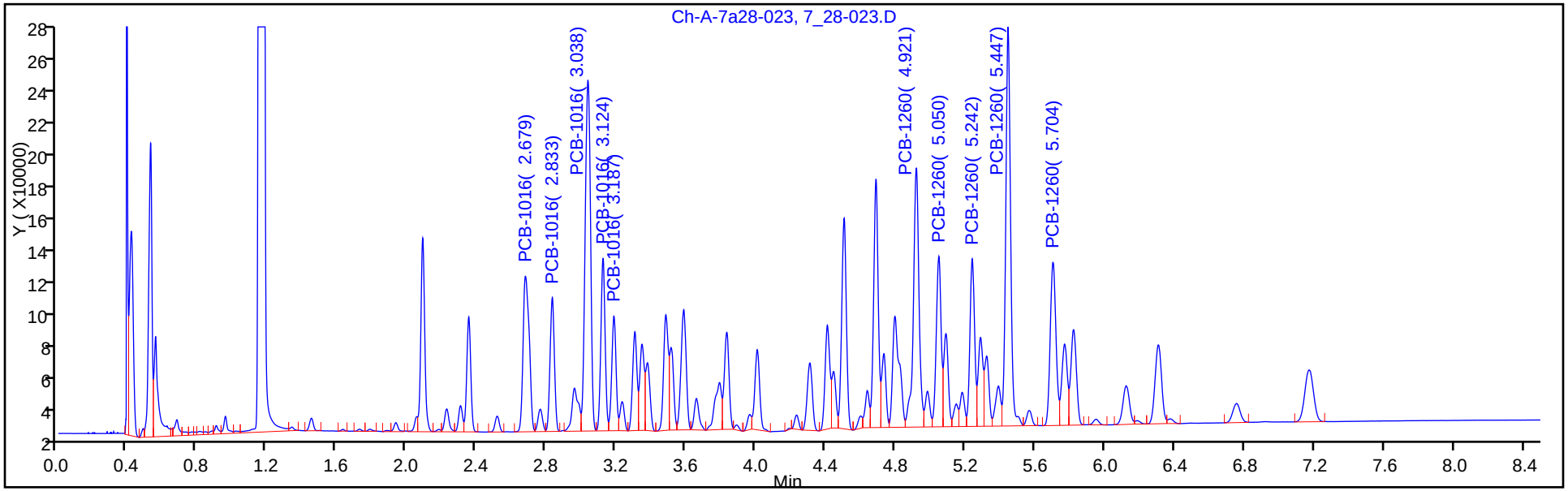
Report Date: 29-Mar-2017 10:53:48 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

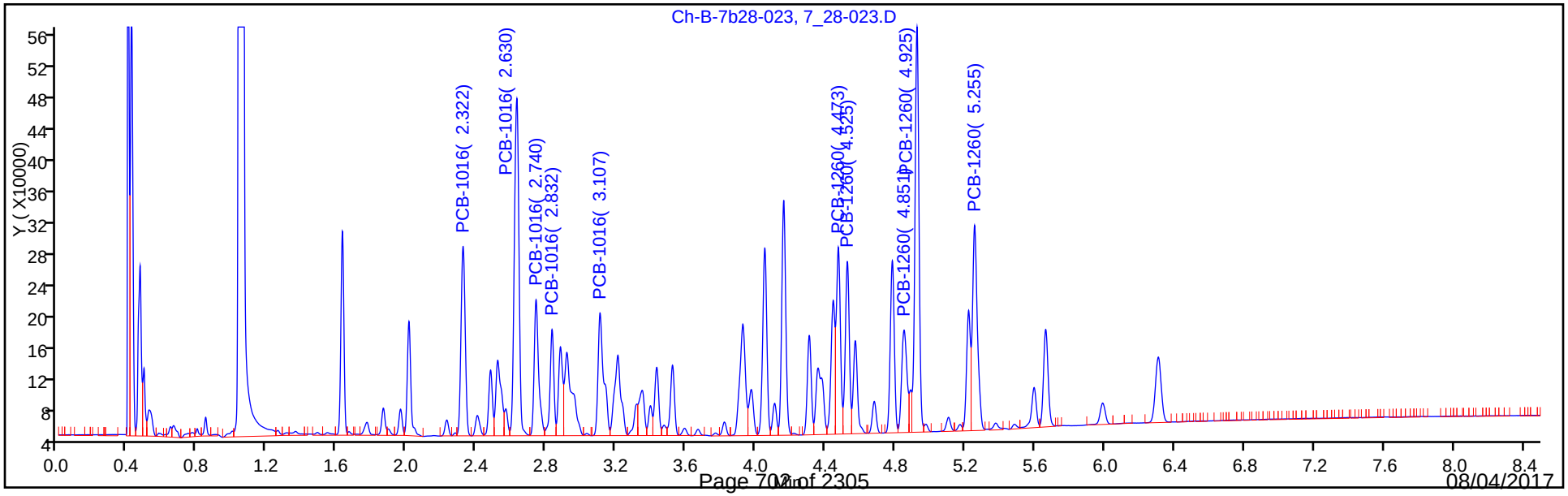
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date:	28-Mar-2017 13:32:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 13:48:24 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:51 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:15

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14095092	0.5000	0.5000	
2	1.051	1.050	0.001	25666794	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	103225	0.002500	0.002588	
2	1.629	1.629	0.000	165536	0.002500	0.002747	
						RPD = 5.96	
9 PCB-1016							
1	2.680	2.681	-0.001	131166	0.1000	0.1062	
1	2.833	2.834	-0.002	79759	0.1000	0.0986	
1	3.038	3.038	0.000	252373	0.1000	0.1042	
1	3.123	3.126	-0.003	101002	0.1000	0.1056	
1	3.187	3.188	-0.001	68213	0.1000	0.1074	
		Average of Peak Amounts =				0.1044	
2	2.322	2.322	0.000	221184	0.1000	0.1056	
2	2.629	2.631	-0.002	427950	0.1000	0.1075	
2	2.740	2.741	-0.001	168178	0.1000	0.1092	
2	2.832	2.833	0.000	111933	0.1000	0.1110	
2	3.108	3.108	0.000	191892	0.1000	0.1117	
		Average of Peak Amounts =				0.1090	
						RPD = 4.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.922	-0.002	195331	0.1000	0.1015	
1	5.048	5.051	-0.003	113127	0.1000	0.1051	
1	5.242	5.243	0.000	106177	0.1000	0.1041	
1	5.447	5.449	-0.002	248968	0.1000	0.0992	
1	5.705	5.706	-0.001	125509	0.1000	0.1027	
		Average of Peak Amounts =				0.1025	
2	4.474	4.474	0.000	203046	0.1000	0.1018	M
2	4.525	4.526	-0.001	186861	0.1000	0.1048	M
2	4.850	4.850	0.000	145043	0.1000	0.1059	M
2	4.924	4.926	-0.002	425544	0.1000	0.1003	M
2	5.255	5.256	-0.001	256997	0.1000	0.0992	M
		Average of Peak Amounts =				0.1024	
						RPD = 0.11	
$ 15 DCB Decachlorobiphenyl							
1	7.175	7.173	0.003	61259	0.002500	0.002505	
2	6.309	6.310	-0.001	105526	0.002500	0.002523	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00006 Amount Added: 1.00 Units: mL

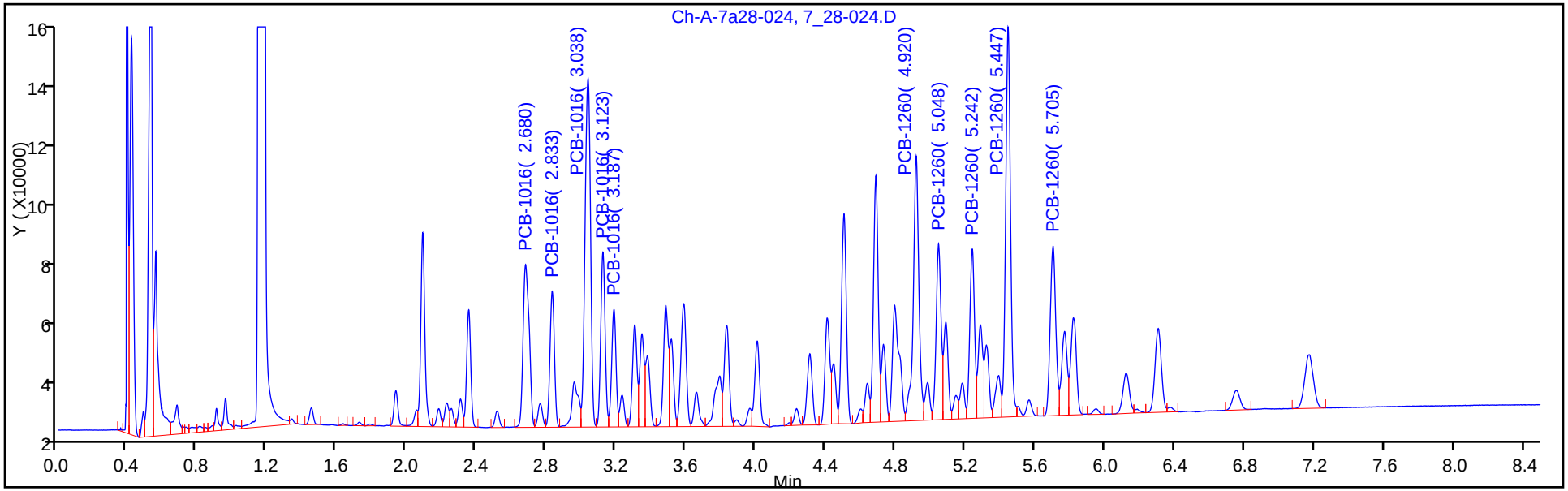
Report Date: 29-Mar-2017 10:53:52 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

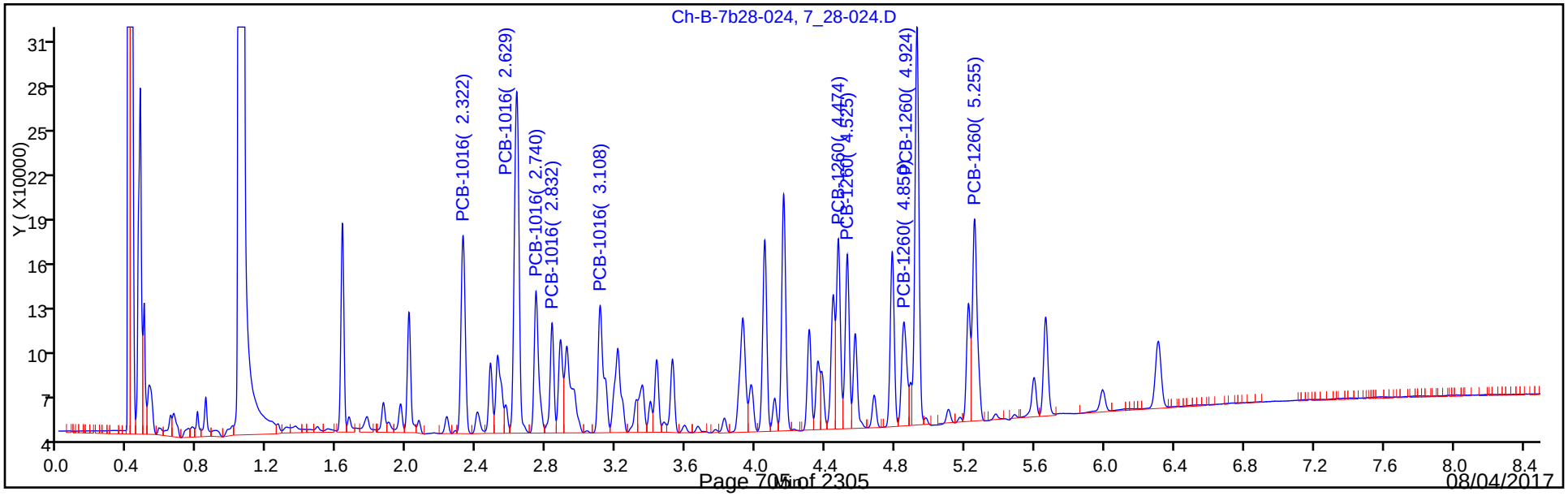
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D

Injection Date:	28-Mar-2017 13:48:24	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 14:04:23 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:55 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 14:59:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14205944	0.5000	0.5000	
2	1.051	1.050	0.001	25850188	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.092	-0.001	54964	0.001250	0.001144	M
2	1.630	1.629	0.001	88309	0.001250	0.001378	M
						RPD = 18.55	
9 PCB-1016							M
1	2.679	2.681	-0.002	70180	0.0500	0.0464	M
1	2.833	2.834	-0.001	42348	0.0500	0.0384	M
1	3.039	3.038	0.001	131470	0.0500	0.0497	M
1	3.123	3.126	-0.003	54848	0.0500	0.0493	M
1	3.188	3.188	0.000	35957	0.0500	0.0510	M
		Average of Peak Amounts =				0.0470	
2	2.322	2.322	0.000	119218	0.0500	0.0438	M
2	2.630	2.631	-0.001	231069	0.0500	0.0519	M
2	2.741	2.741	0.000	89547	0.0500	0.0503	M
2	2.833	2.833	0.000	58550	0.0500	0.0519	M
2	3.108	3.108	0.000	99815	0.0500	0.0523	M
		Average of Peak Amounts =				0.0500	
						RPD = 6.32	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	103183	0.0500	0.0482	
1	5.049	5.051	-0.002	59743	0.0500	0.0501	
1	5.243	5.243	0.000	56806	0.0500	0.0503	
1	5.448	5.449	-0.001	133445	0.0500	0.0493	
1	5.706	5.706	0.000	67285	0.0500	0.0492	
		Average of Peak Amounts =				0.0494	
2	4.474	4.474	0.000	107037	0.0500	0.0484	M
2	4.526	4.526	0.000	97606	0.0500	0.0506	M
2	4.850	4.850	0.000	75849	0.0500	0.0523	M
2	4.926	4.926	0.000	218116	0.0500	0.0507	M
2	5.255	5.256	-0.001	134029	0.0500	0.0505	M
		Average of Peak Amounts =				0.0505	
						RPD = 2.12	
$ 15 DCB Decachlorobiphenyl							
1	7.174	7.173	0.002	32445	0.001250	0.000992	
2	6.310	6.310	0.000	57089	0.001250	0.001184	
						RPD = 17.63	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00005 Amount Added: 1.00 Units: mL

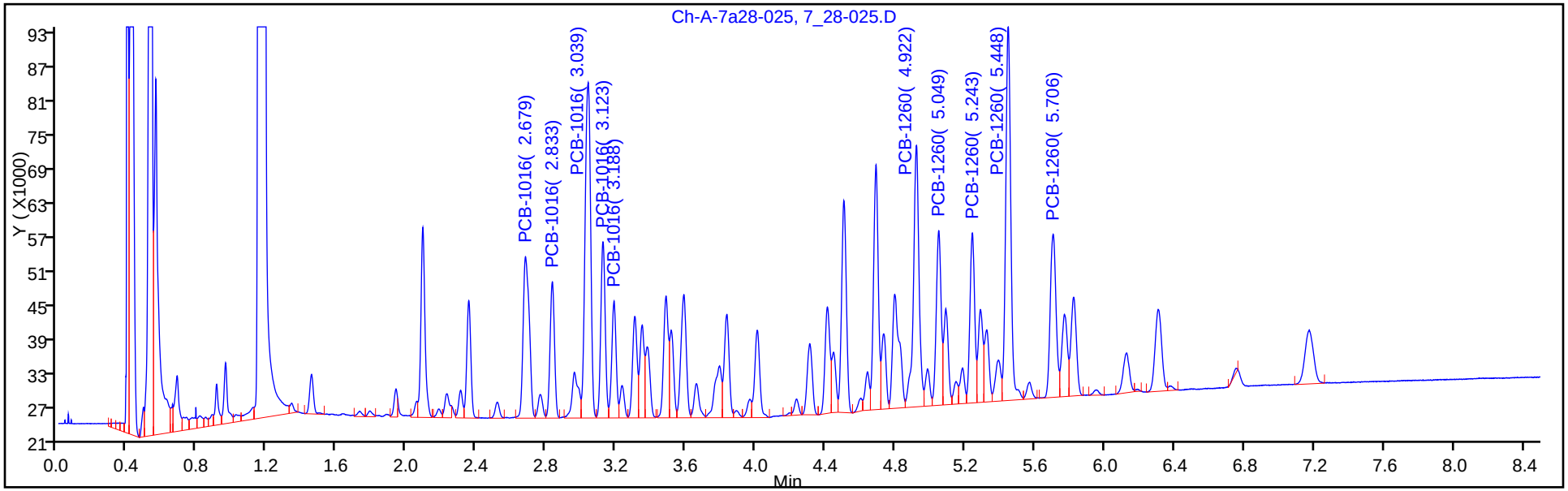
Report Date: 29-Mar-2017 10:53:55 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

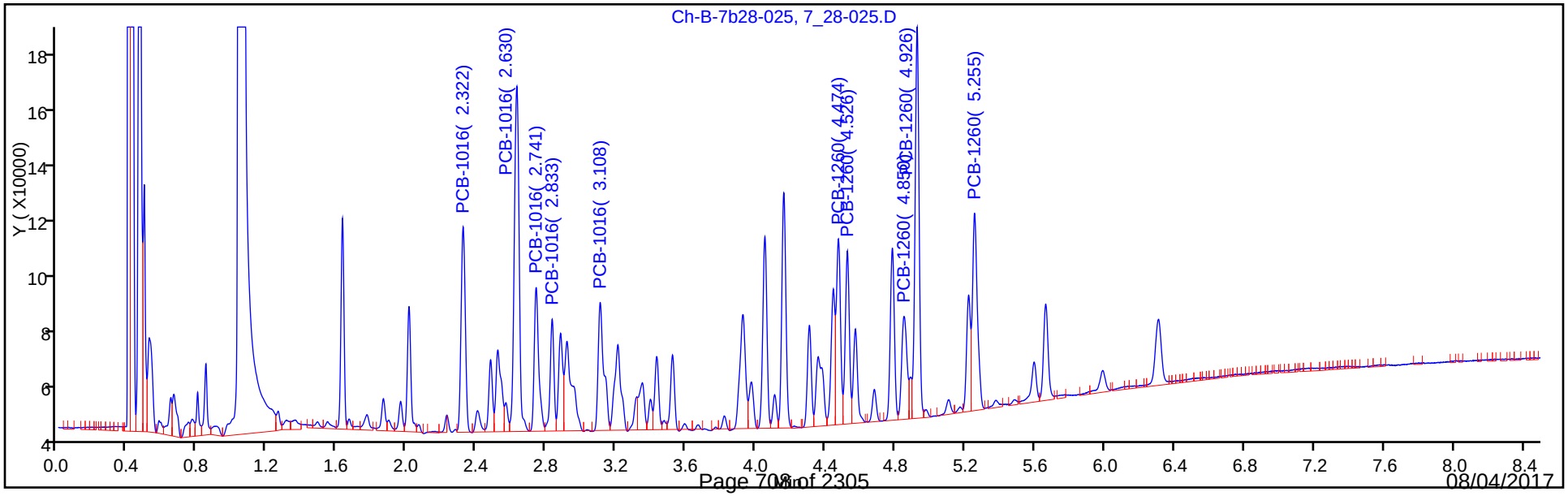
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date:	28-Mar-2017 14:04:23	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

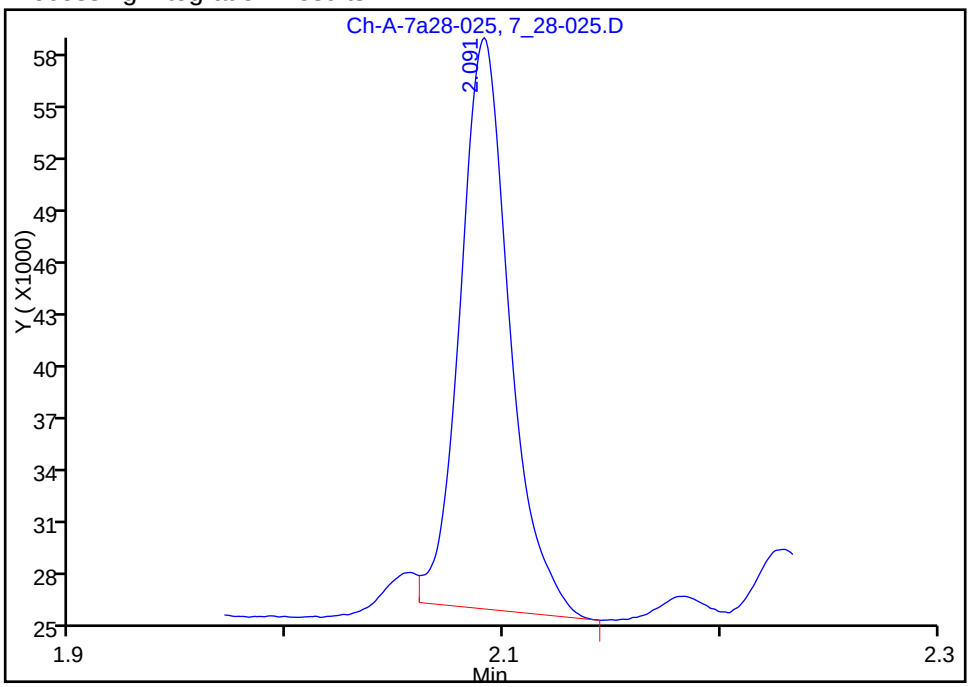
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

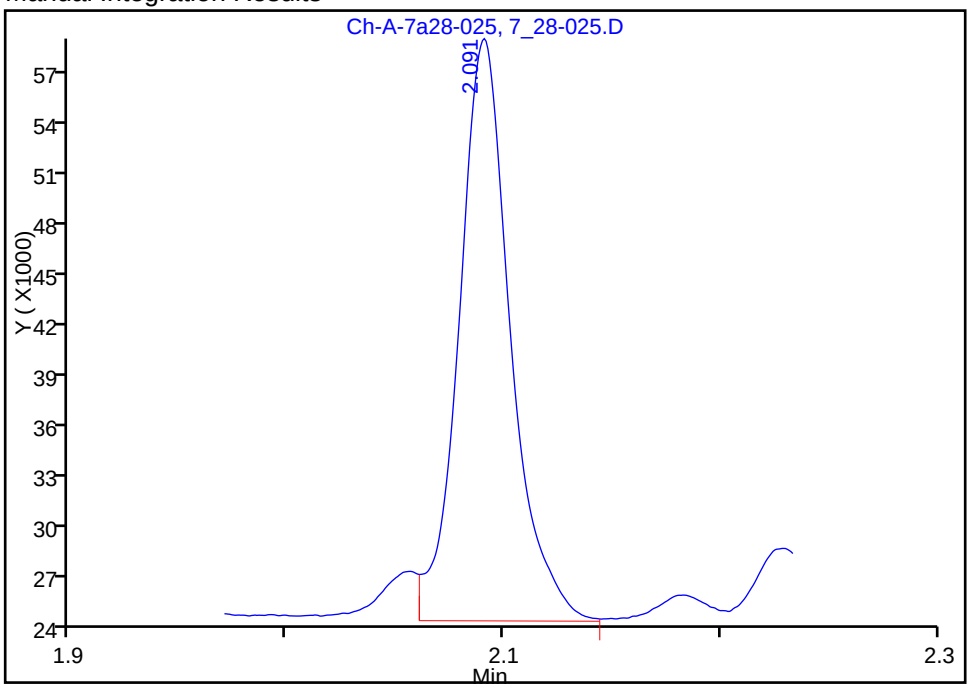
Processing Integration Results

RT: 2.09
Area: 51887
Amount: 0.001075
Amount Units: ng/uL



Manual Integration Results

RT: 2.09
Area: 54964
Amount: 0.001144
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:39:46
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:55 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

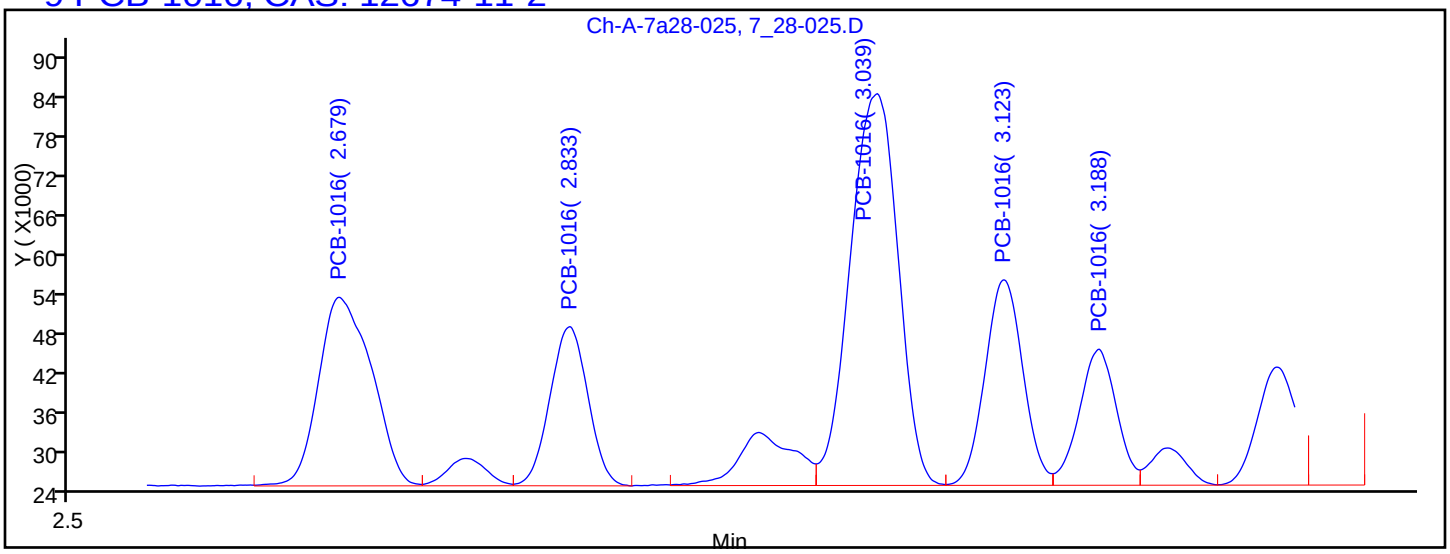
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

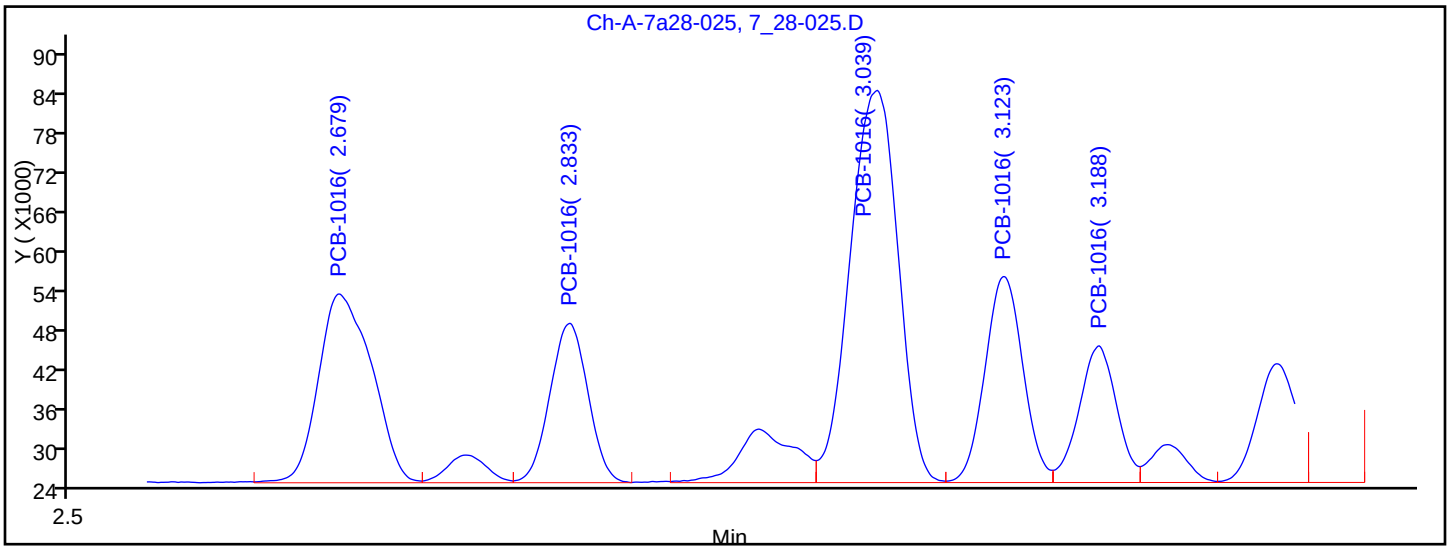
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.679	Response = 69947
2.833	Response = 42180
3.039	Response = 131067
3.123	Response = 54474
3.188	Response = 35626



Manual Integration Results

2.679	Response = 70180	M
2.833	Response = 42348	M
3.039	Response = 131470	M
3.123	Response = 54848	M
3.188	Response = 35957	M

Reviewer: owenj, 28-Mar-2017 15:39:45

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 14:20:25 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:06:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.166	0.000	13792920	0.5000	0.5000	
2	1.049	1.049	0.000	24913854	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.092	2.092	0.000	32243	0.000500	0.000504	
2	1.628	1.628	0.000	29453	0.000500	0.000370	M
						RPD = 30.68	
9 PCB-1016							M
1	2.678	2.678	0.000	40090	0.0200	0.0185	M
1	2.833	2.833	0.000	32281	0.0200	0.0240	M
1	3.038	3.038	0.000	59419	0.0200	0.0186	M
1	3.124	3.124	0.000	28193	0.0200	0.0184	M
1	3.187	3.187	0.000	16055	0.0200	0.0176	M
		Average of Peak Amounts =				0.0194	
2	2.320	2.320	0.000	75232	0.0200	0.0192	M
2	2.629	2.629	0.000	100551	0.0200	0.0166	M
2	2.741	2.741	0.000	42091	0.0200	0.0164	M
2	2.832	2.832	0.000	24350	0.0200	0.0155	M
2	3.108	3.108	0.000	39819	0.0200	0.0151	M
		Average of Peak Amounts =				0.0166	
						RPD = 15.66	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.920	0.000	53350	0.0200	0.0208	M
1	5.050	5.050	0.000	28146	0.0200	0.0190	M
1	5.243	5.243	0.000	26897	0.0200	0.0191	M
1	5.448	5.448	0.000	64230	0.0200	0.0207	M
1	5.705	5.705	0.000	33766	0.0200	0.0199	M
		Average of Peak Amounts =				0.0199	
2	4.460	4.460	0.000	53484	0.0200	0.0201	M
2	4.525	4.525	0.000	42671	0.0200	0.0186	M
2	4.850	4.850	0.000	29246	0.0200	0.0176	M
2	4.925	4.925	0.000	87081	0.0200	0.0206	M
2	5.256	5.256	0.000	55612	0.0200	0.0207	M
		Average of Peak Amounts =				0.0195	
						RPD = 1.86	
$ 15 DCB Decachlorobiphenyl							M
1	7.180	7.180	0.000	23559	0.000500	0.000570	M
2	6.309	6.309	0.000	31563	0.000500	0.000522	M
						RPD = 8.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00005 Amount Added: 1.00 Units: mL

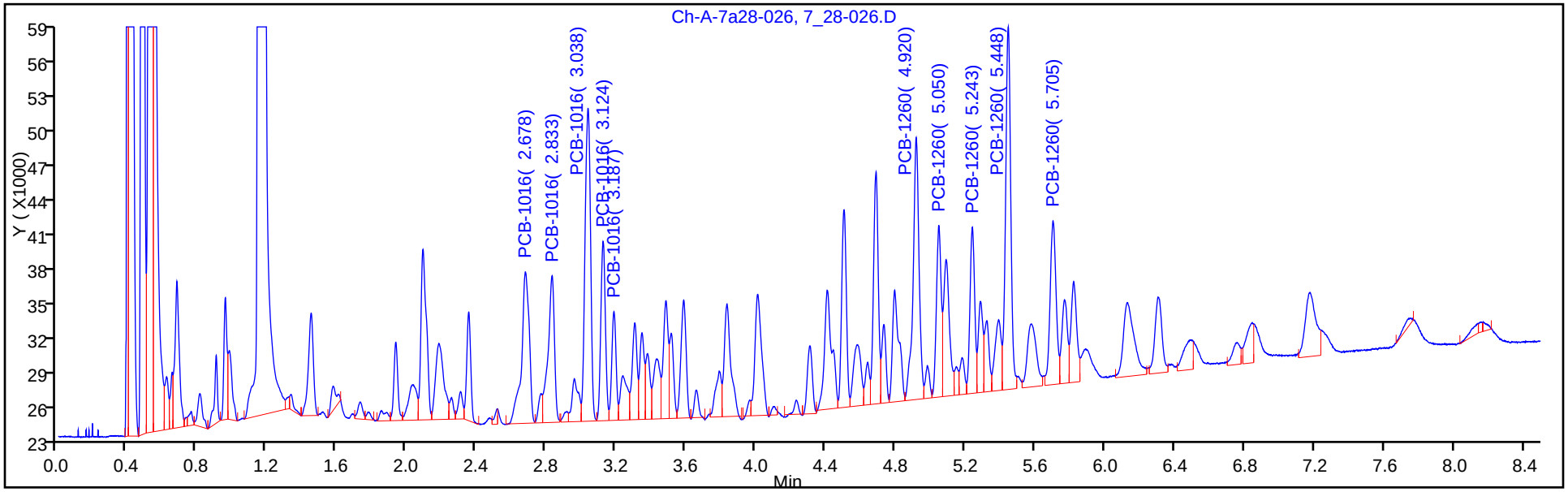
Report Date: 29-Mar-2017 10:53:59 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

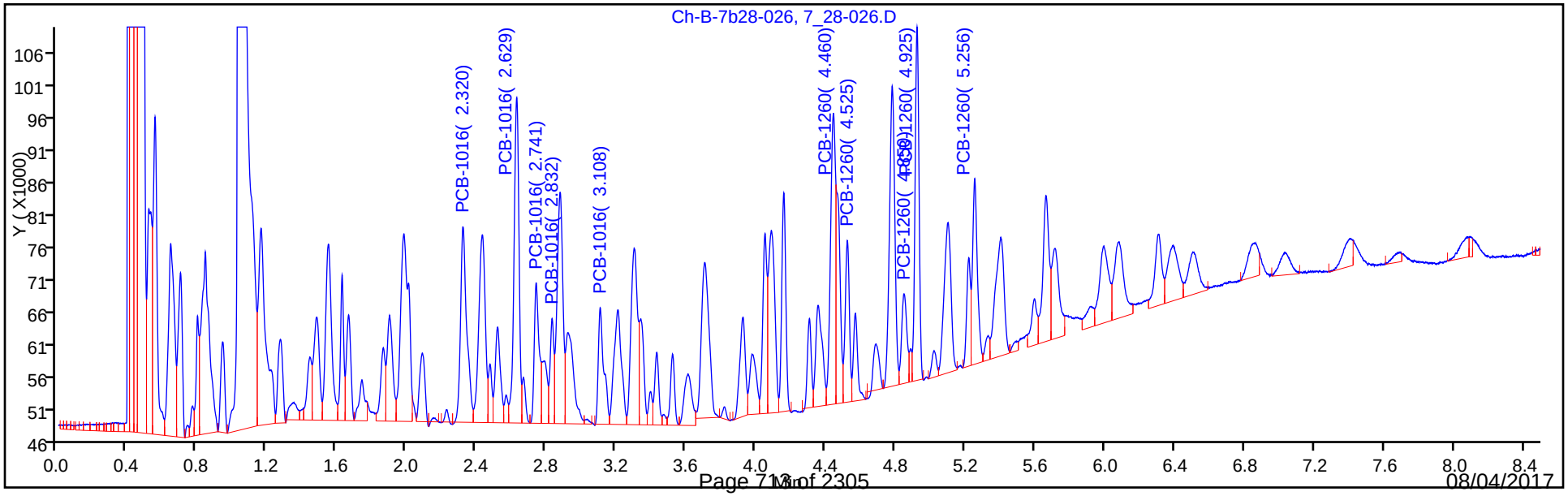
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date:	28-Mar-2017 14:20:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

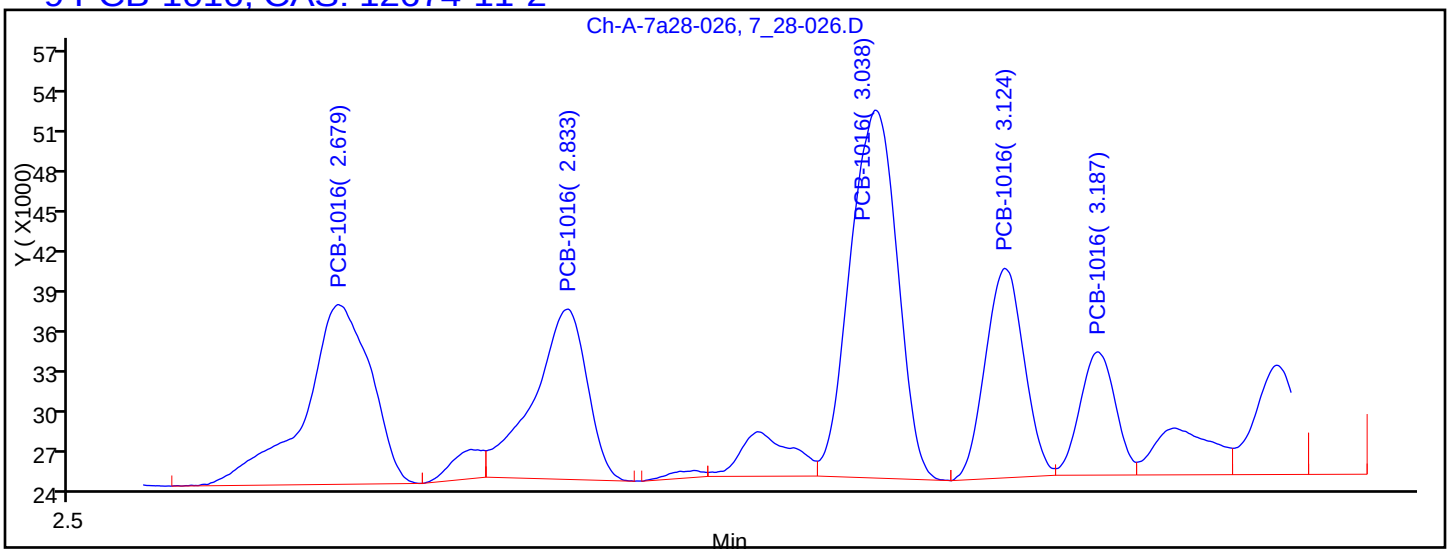
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

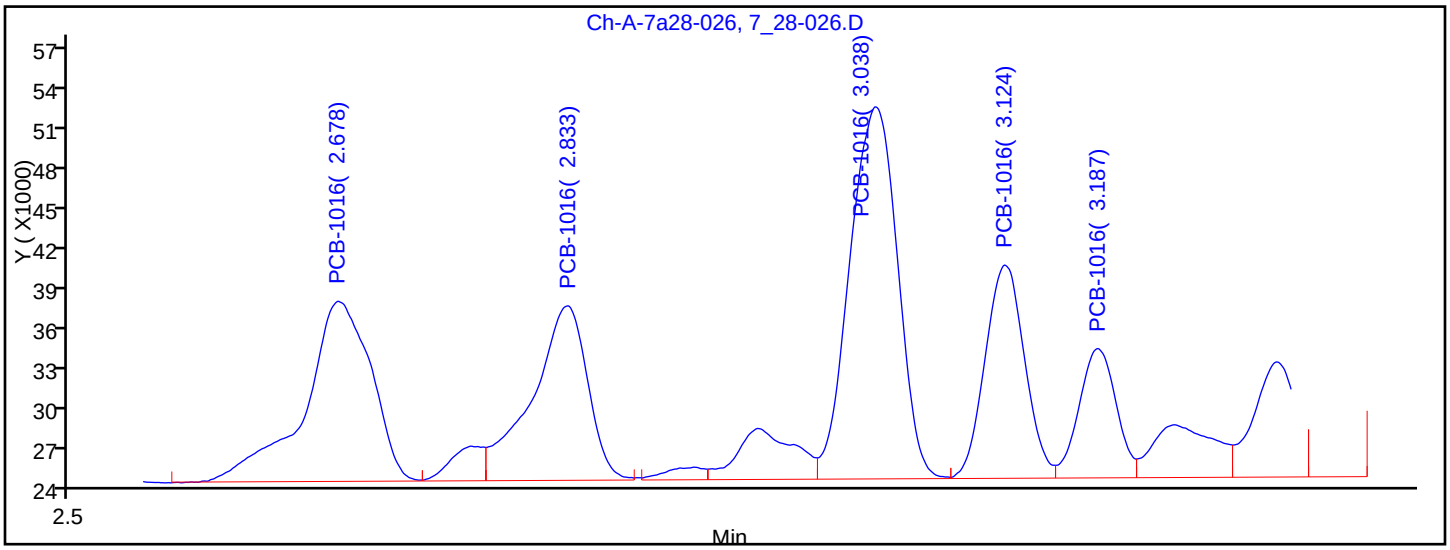
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.679	Response = 40025
2.833	Response = 30389
3.038	Response = 57961
3.124	Response = 27095
3.187	Response = 14643



Manual Integration Results

2.678	Response = 40090	M
2.833	Response = 32281	M
3.038	Response = 59419	M
3.124	Response = 28193	M
3.187	Response = 16055	M

Reviewer: owenj, 28-Mar-2017 15:41:06

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

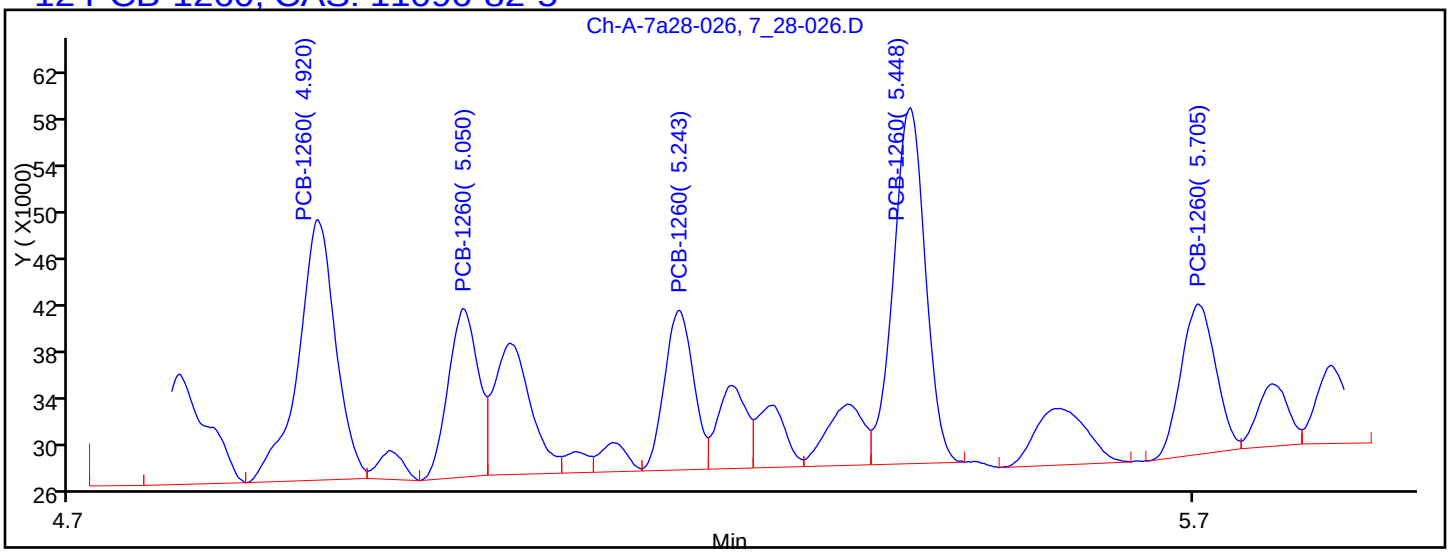
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

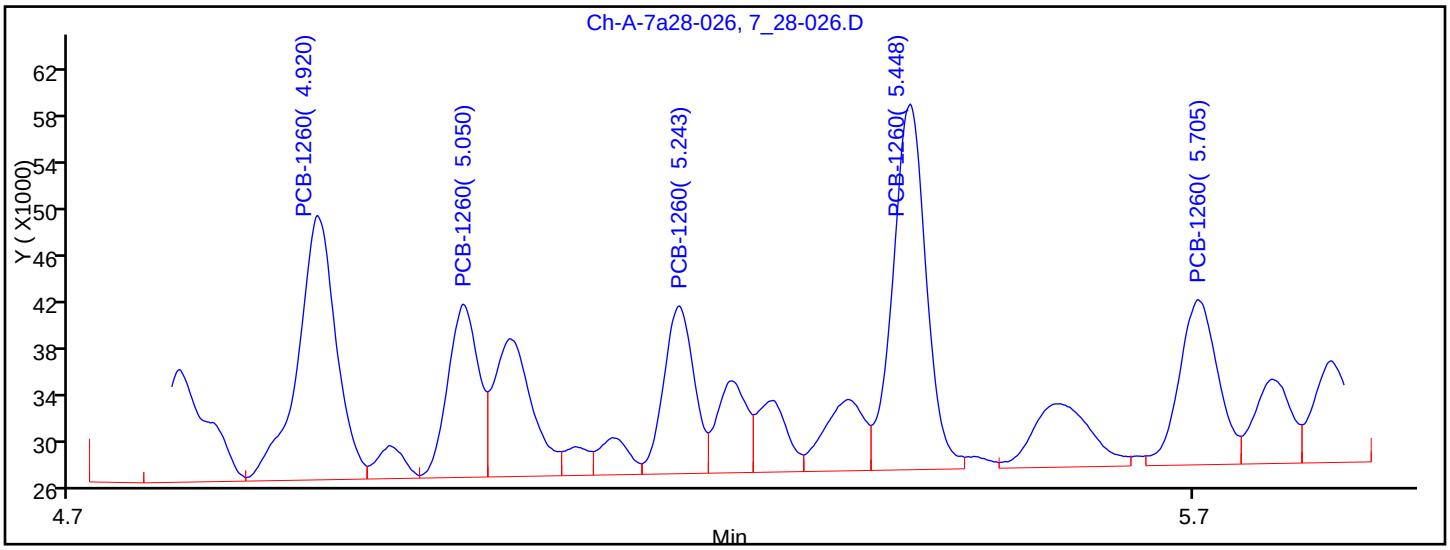
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.920	Response = 50860
5.050	Response = 26706
5.243	Response = 24295
5.448	Response = 59545
5.705	Response = 27397



Manual Integration Results

4.920	Response = 53350	M
5.050	Response = 28146	M
5.243	Response = 26897	M
5.448	Response = 64230	M
5.705	Response = 33766	M

Reviewer: owenj, 28-Mar-2017 15:41:03

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

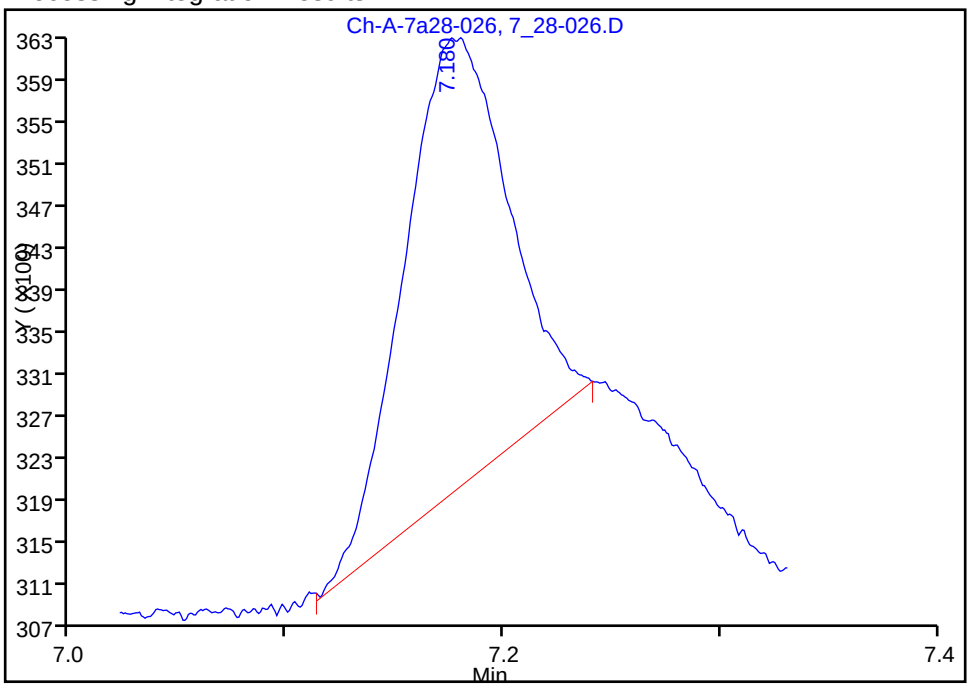
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

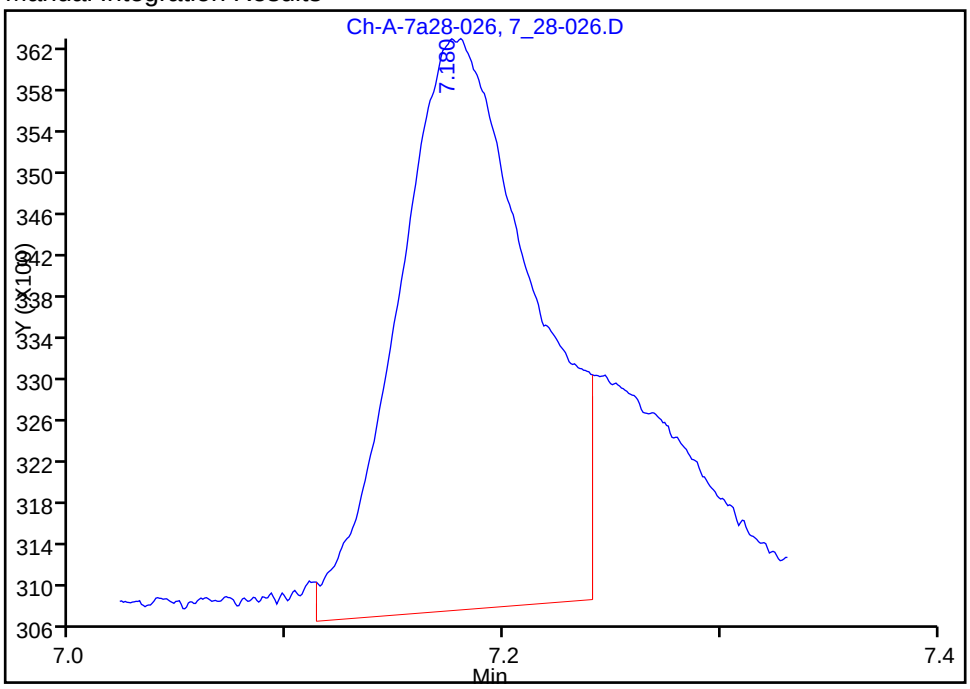
Processing Integration Results

RT: 7.18
Area: 14218
Amount: 0.000382
Amount Units: ng/uL



Manual Integration Results

RT: 7.18
Area: 23559
Amount: 0.000570
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:41:03
Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30037

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0755 0.0338	0.0461 0.0320	0.0431	0.0392	0.0357	Lin1	0.0009	0.0324							0.9990		0.9900
PCB-1016 Peak 2	0.1009 0.0705	0.0894 0.0691	0.0834	0.0772	0.0727	Lin1	0.0009	0.0696							0.9990		0.9900
PCB-1016 Peak 3	0.0422 0.0267	0.0346 0.0259	0.0328	0.0301	0.0277	Lin1	0.0004	0.0262							0.9990		0.9900
PCB-1016 Peak 4	0.0244 0.0180	0.0226 0.0175	0.0218	0.0201	0.0185	Lin1	0.0002	0.0177							0.9990		0.9900
PCB-1016 Peak 5	0.0400 0.0307	0.0386 0.0301	0.0374	0.0344	0.0318	Lin1	0.0003	0.0304							0.9990		0.9900
PCB-1260 Peak 1	0.0537 0.0354	0.0414 0.0355	0.0396	0.0374	0.0362	Lin1	0.0004	0.0353							1.0000		0.9900
PCB-1260 Peak 2	0.0428 0.0325	0.0378 0.0324	0.0364	0.0342	0.0326	Lin1	0.0003	0.0323							1.0000		0.9900
PCB-1260 Peak 3	0.0293 0.0254	0.0293 0.0254	0.0283	0.0269	0.0253	Lin1	0.0001	0.0253							1.0000		0.9900
PCB-1260 Peak 4	0.0874 0.0812	0.0844 0.0832	0.0829	0.0808	0.0799	Lin1	0.0001	0.0820							1.0000		0.9900
PCB-1260 Peak 5	0.0558 0.0489	0.0518 0.0503	0.0501	0.0495	0.0486	Lin1	0.0001	0.0495							1.0000		0.9900
Tetrachloro-m-xylene	1.1822 1.1160	1.3665 1.0954	1.2899	1.2097	1.1364	Lin1	0.0002	1.1078							0.9990		0.9900
DCB Decachlorobiphenyl	1.2669 0.7210	0.8834 0.7155	0.8223	0.7589	0.7359	Lin1	0.0003	0.7106							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30037

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	75232 1750650	119218 3225340	221184	407072	924630	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	100551 3648843	231069 6960596	427950	801927	1883383	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	42091 1382864	89547 2614031	168178	312839	717244	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	24350 930174	58550 1765496	111933	208461	478556	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	39819 1590176	99815 3029614	191892	357784	824152	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	53484 1832024	107037 3578378	203046	388118	937560	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	42671 1681113	97606 3267180	186861	355175	846078	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	29246 1316272	75849 2555055	145043	278936	654832	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	87081 4197806	218116 8387014	425544	839381	2070270	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	55612 2530850	134029 5066416	256997	513815	1260909	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	29453 1443081	88309 2759910	165536	314174	736370	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	31563 932252	57089 1802857	105526	197094	476855	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Mar-2017 12:44:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:37 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 13:28:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13783622	0.5000	0.5000	
2	1.050	1.049	0.001	25196320	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.091	0.000	1643301	0.0500	0.0494	M
2	1.630	1.630	0.000	2759910	0.0500	0.0493	
						RPD = 0.19	
9 PCB-1016							M
1	2.680	2.680	0.000	1990674	2.00	1.96	
1	2.833	2.833	0.000	1229448	2.00	1.98	
1	3.038	3.038	0.000	4351045	2.00	1.98	
1	3.124	3.124	0.000	1614519	2.00	1.98	
1	3.188	3.188	0.000	1125851	2.00	1.98	
		Average of Peak Amounts =				1.98	
2	2.323	2.322	0.000	3225340	2.00	1.95	M
2	2.630	2.629	0.001	6960596	2.00	1.97	M
2	2.741	2.740	0.001	2614031	2.00	1.96	M
2	2.833	2.832	0.000	1765496	2.00	1.97	M
2	3.108	3.108	0.000	3029614	2.00	1.96	M
		Average of Peak Amounts =				1.96	
						RPD = 0.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	3456088	2.00	2.02	
1	5.049	5.050	-0.001	1936068	2.00	2.01	
1	5.243	5.241	0.001	1828525	2.00	2.01	
1	5.448	5.448	0.000	4599282	2.00	2.01	
1	5.705	5.704	0.001	2179578	2.00	2.02	
		Average of Peak Amounts =				2.01	
2	4.474	4.473	0.001	3578378	2.00	2.00	M
2	4.526	4.525	0.001	3267180	2.00	2.00	M
2	4.852	4.850	0.002	2555055	2.00	2.00	M
2	4.926	4.925	0.001	8387014	2.00	2.03	M
2	5.256	5.256	0.000	5066416	2.00	2.03	M
		Average of Peak Amounts =				2.01	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							M
1	7.176	7.173	0.003	945567	0.0500	0.0496	
2	6.309	6.309	0.000	1802857	0.0500	0.0500	M
						RPD = 0.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00005 Amount Added: 1.00 Units: mL

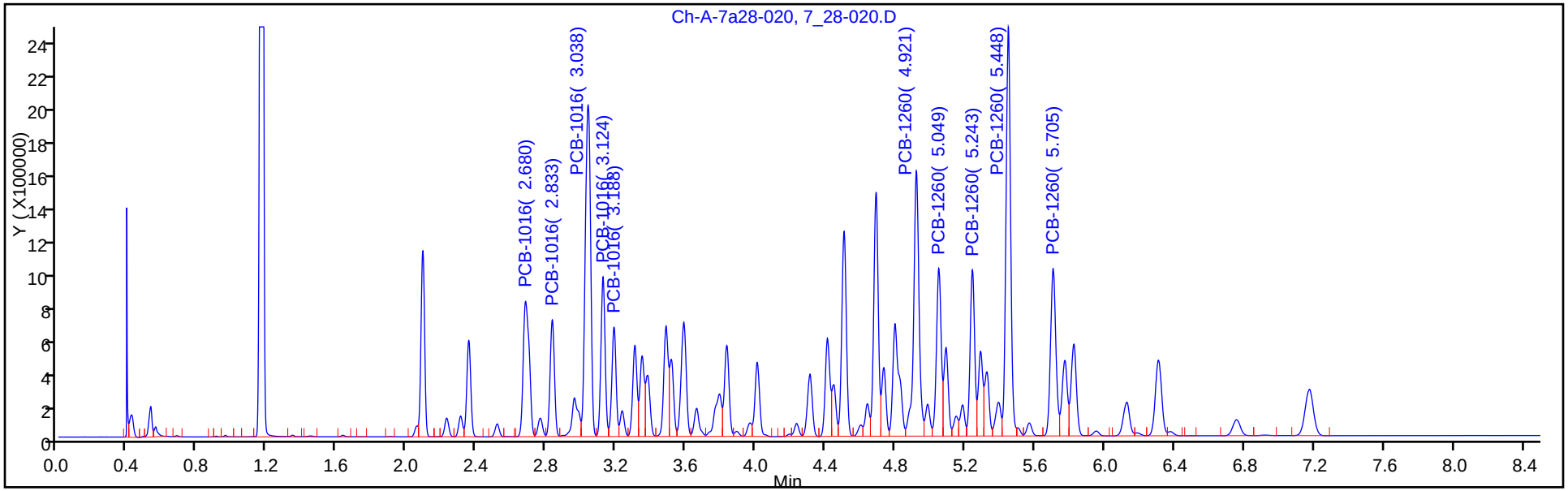
Report Date: 29-Mar-2017 10:53:38 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

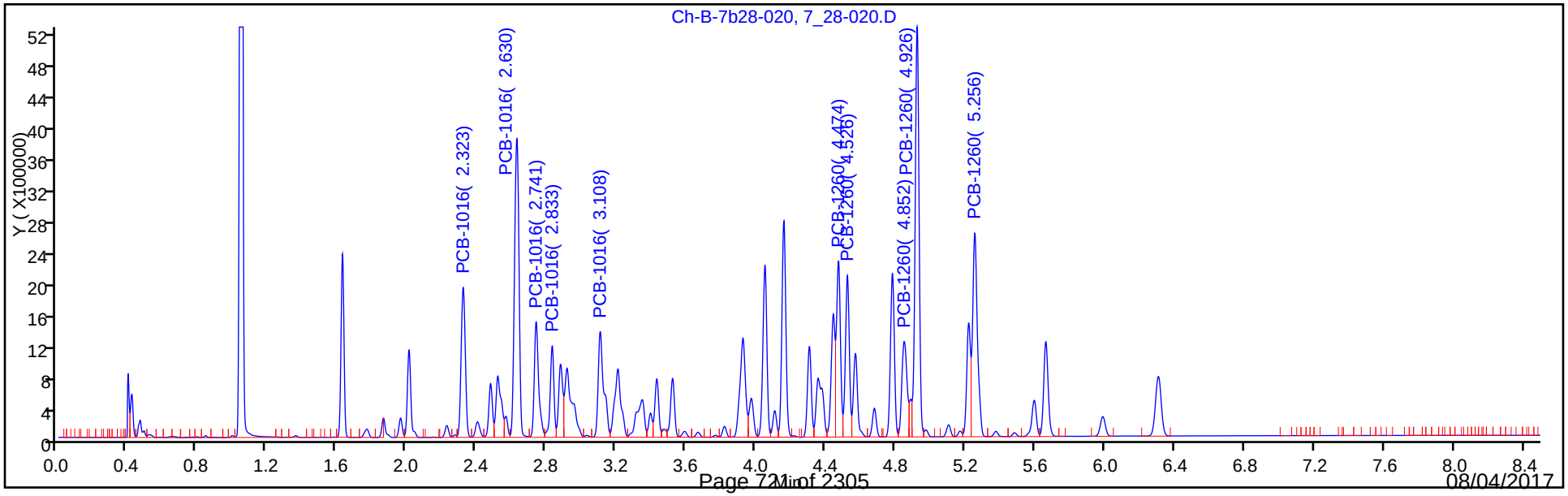
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date:	28-Mar-2017 12:44:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:39 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7

Lims ID: IC 7

Client ID:

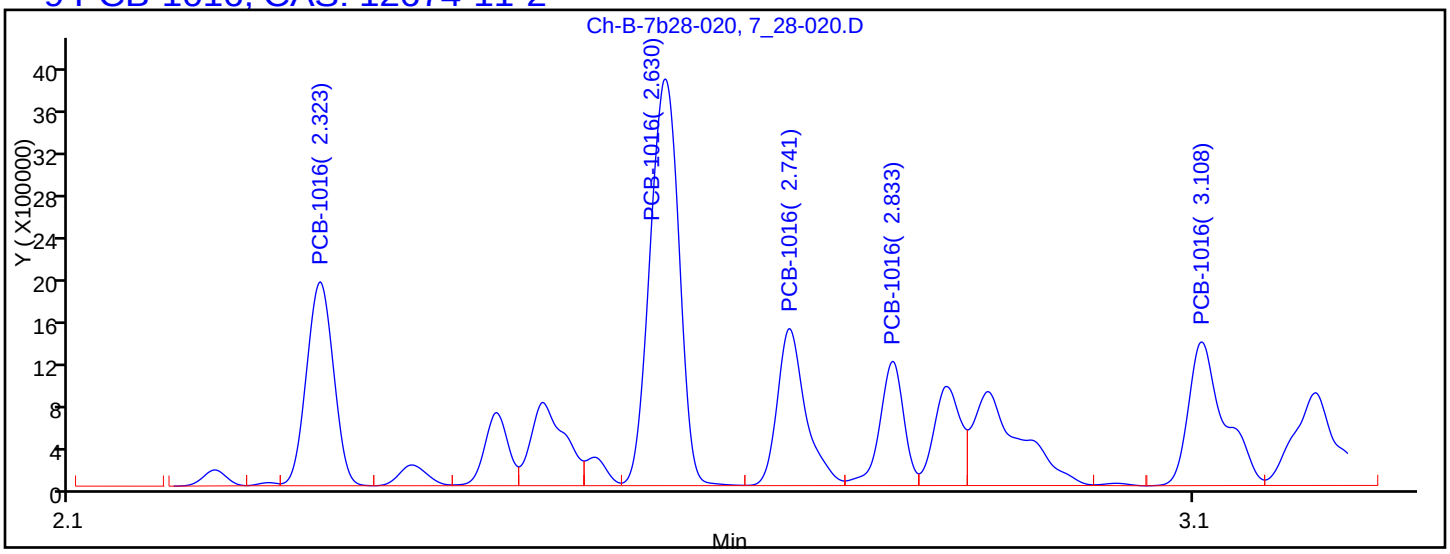
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

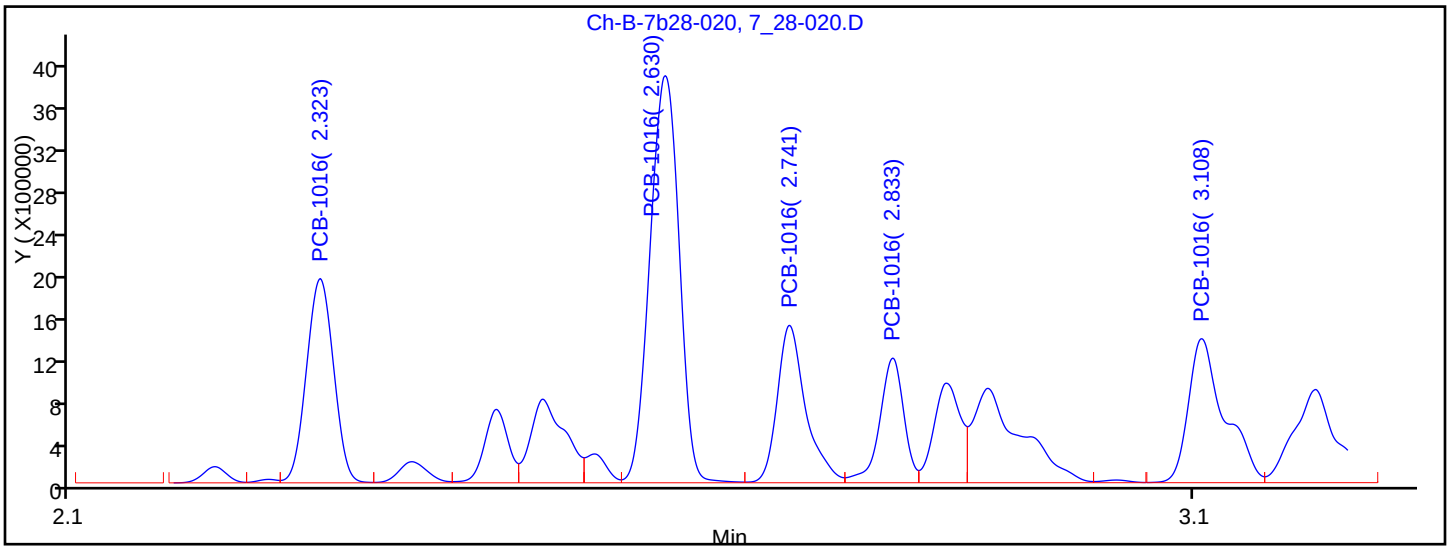
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.323	Response = 3208760
2.630	Response = 6935787
2.741	Response = 2593346
2.833	Response = 1749465
3.108	Response = 3009268



Manual Integration Results

2.323	Response = 3225340	M
2.630	Response = 6960596	M
2.741	Response = 2614031	M
2.833	Response = 1765496	M
3.108	Response = 3029614	M

Reviewer: owenj, 28-Mar-2017 15:09:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:39 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7

Lims ID: IC 7

Client ID:

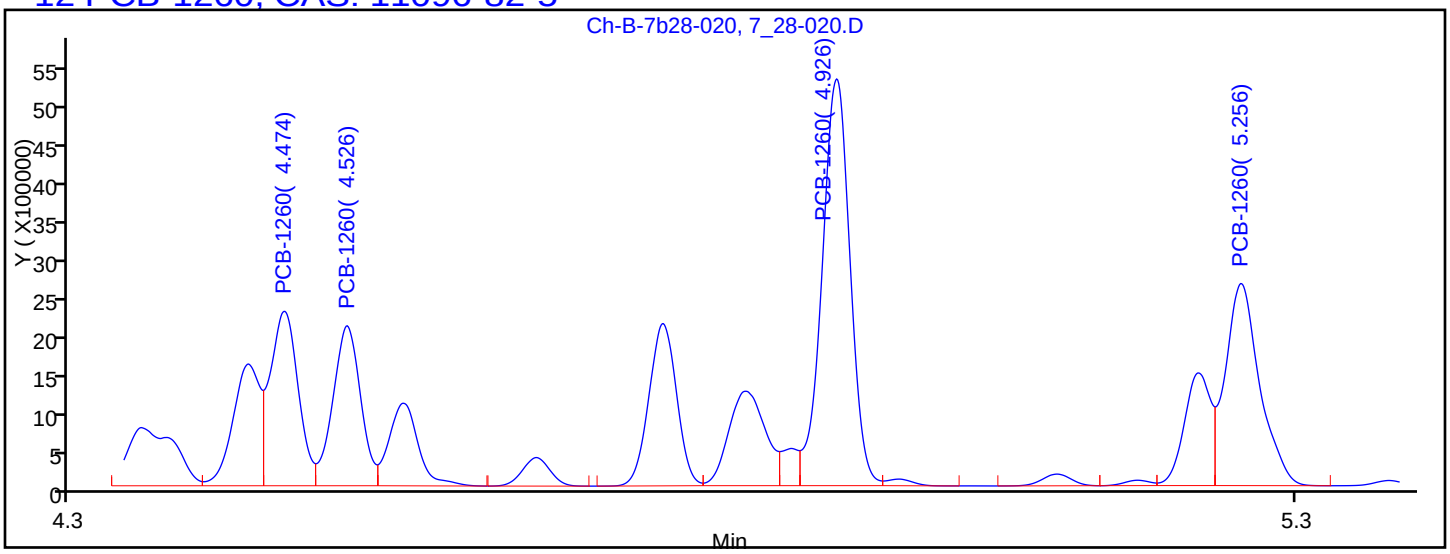
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

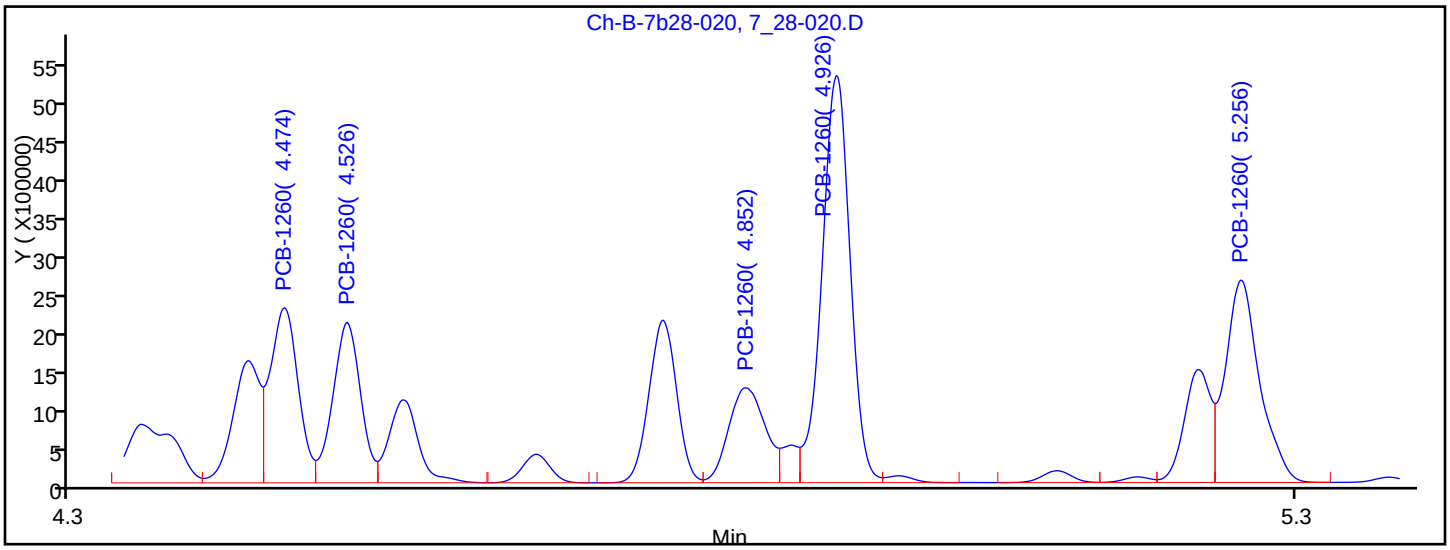
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 3565365
4.526	Response = 3251904
4.784	Response = 3298061
4.926	Response = 8369298
5.256	Response = 5052676



Manual Integration Results

4.474	Response = 3578378	M
4.526	Response = 3267180	M
4.852	Response = 2555055	M
4.926	Response = 8387014	M
5.256	Response = 5066416	M

Reviewer: owenj, 28-Mar-2017 15:47:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

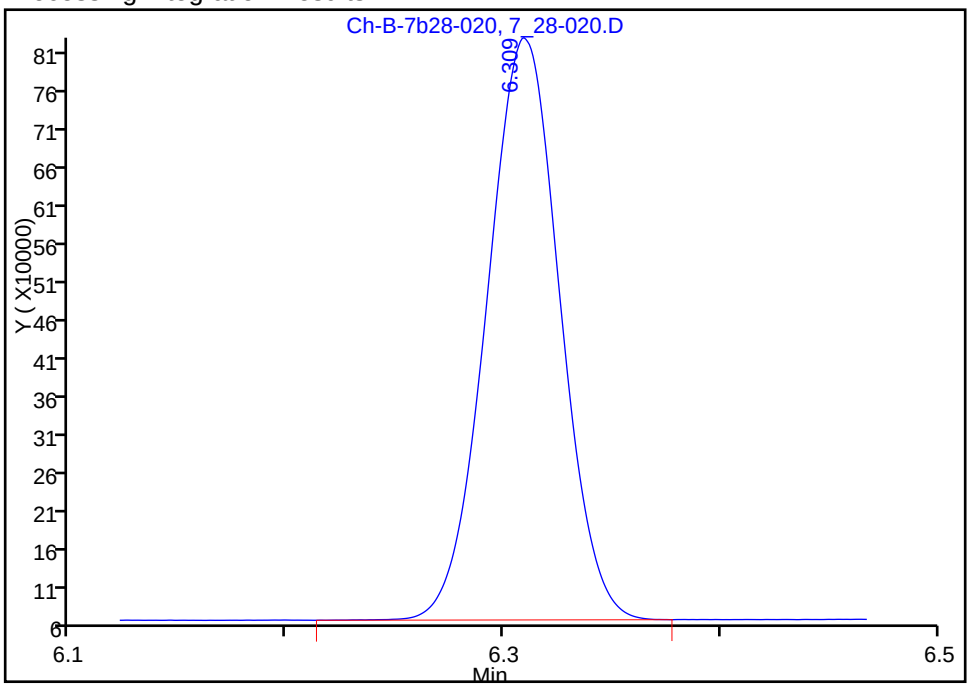
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

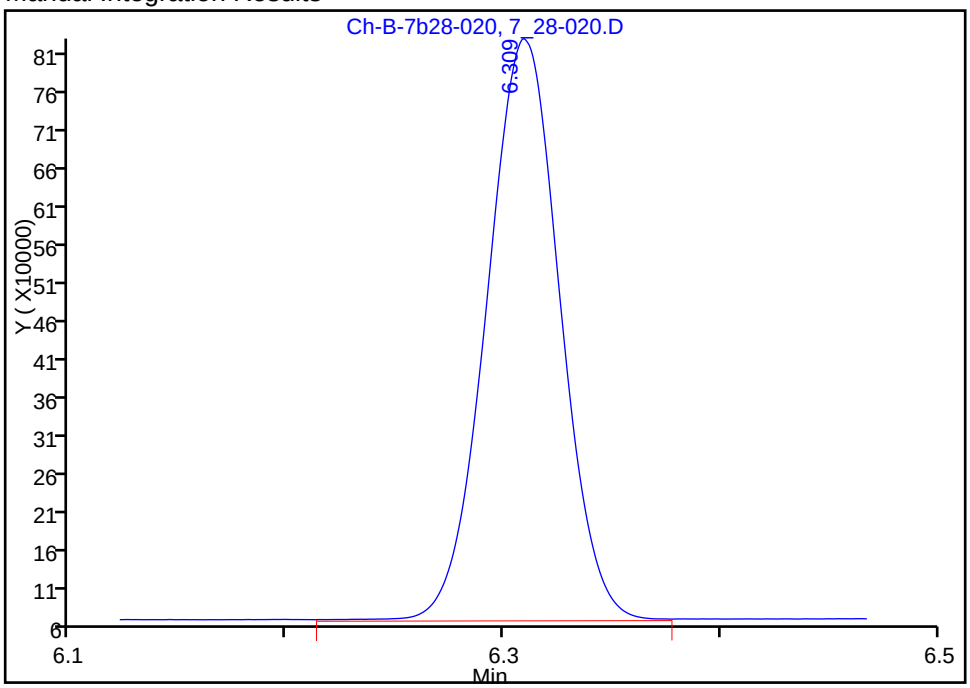
Processing Integration Results

RT: 6.31
Area: 1783192
Amount: 0.049410
Amount Units: ng/uL



Manual Integration Results

RT: 6.31
Area: 1802857
Amount: 0.049978
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:09:24
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Mar-2017 13:00:25 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:41 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	14192996	0.5000	0.5000	
2	1.051	1.049	0.002	25860623	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.091	2.091	0.000	878514	0.0250	0.0254	
2	1.630	1.630	0.000	1443081	0.0250	0.0250	
						RPD = 1.51	
9 PCB-1016							M
1	2.680	2.680	0.000	1069406	1.00	1.01	
1	2.833	2.833	0.000	657284	1.00	1.01	
1	3.037	3.038	-0.001	2281855	1.00	1.00	
1	3.124	3.124	0.000	847778	1.00	1.00	
1	3.188	3.188	0.000	585173	1.00	1.00	
		Average of Peak Amounts =				1.01	
2	2.322	2.322	0.000	1750650	1.00	1.02	M
2	2.630	2.629	0.001	3648843	1.00	1.00	M
2	2.740	2.740	0.000	1382864	1.00	1.00	M
2	2.833	2.832	0.000	930174	1.00	1.00	M
2	3.108	3.108	0.000	1590176	1.00	1.00	M
		Average of Peak Amounts =				1.01	
						RPD = 0.01	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	1757860	1.00	0.99	
1	5.049	5.050	-0.001	985992	1.00	0.9889	
1	5.243	5.241	0.001	928651	1.00	0.9864	
1	5.448	5.448	0.000	2370953	1.00	1.00	
1	5.705	5.704	0.001	1105773	1.00	0.9872	
		Average of Peak Amounts =				0.99	
2	4.475	4.473	0.002	1832024	1.00	0.99	M
2	4.526	4.525	0.001	1681113	1.00	1.00	M
2	4.853	4.850	0.002	1316272	1.00	1.00	M
2	4.926	4.925	0.001	4197806	1.00	0.9885	M
2	5.256	5.256	0.000	2530850	1.00	0.9857	M
		Average of Peak Amounts =				0.99	
						RPD = 0.22	
$ 15 DCB Decachlorobiphenyl							
1	7.176	7.173	0.003	497557	0.0250	0.0250	
2	6.310	6.309	0.001	932252	0.0250	0.0250	
						RPD = 0.14	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00006 Amount Added: 1.00 Units: mL

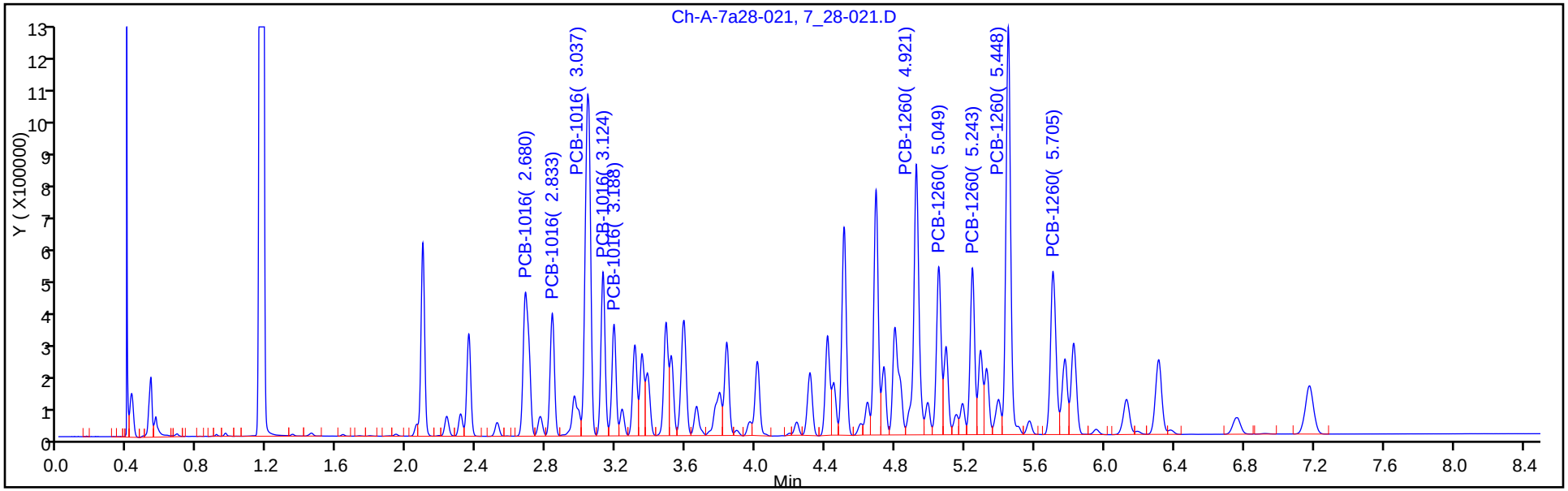
Report Date: 29-Mar-2017 10:53:42 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

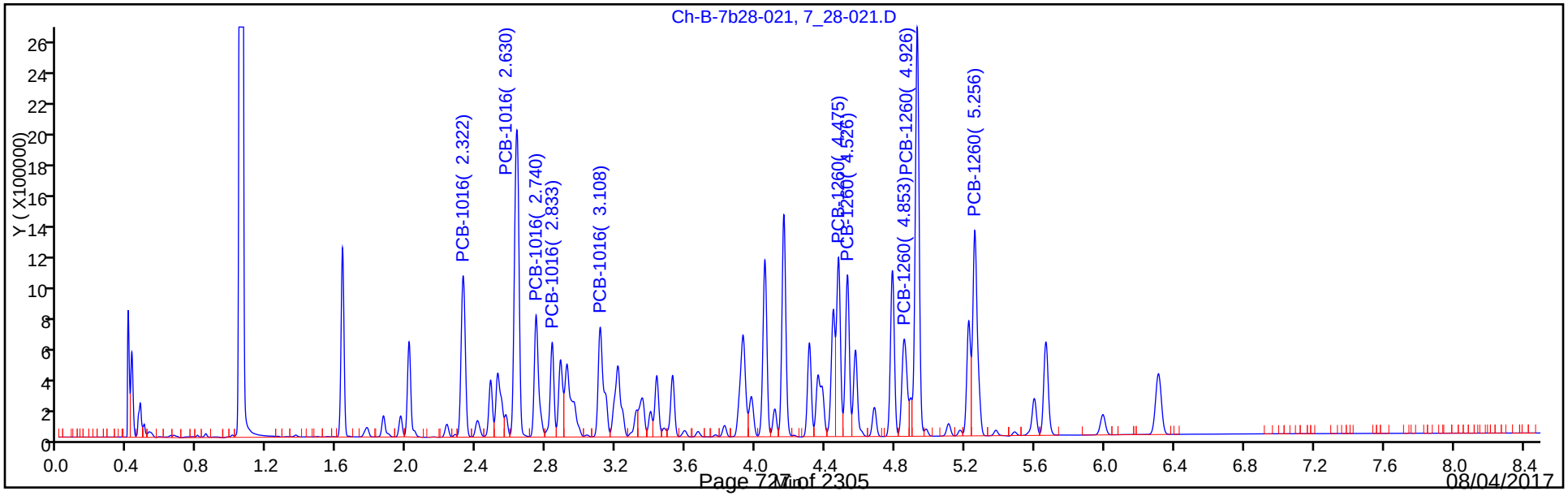
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date:	28-Mar-2017 13:00:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:42 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date: 28-Mar-2017 13:00:25 Instrument ID: HP6890-7

Lims ID: IC 6

Client ID:

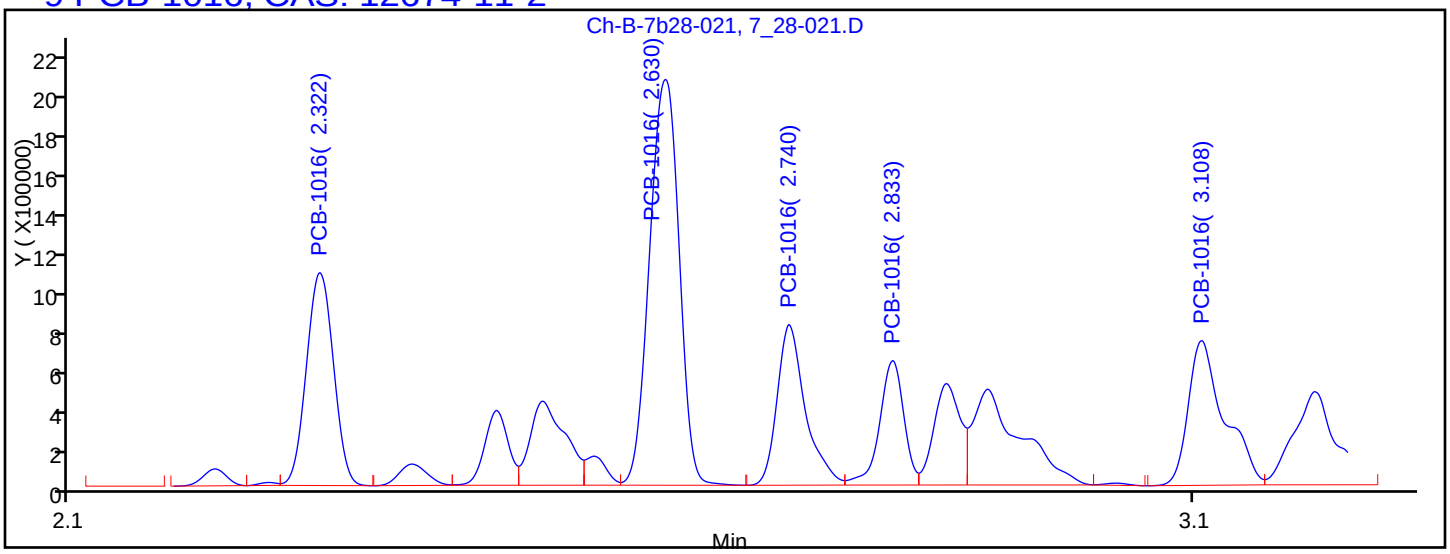
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

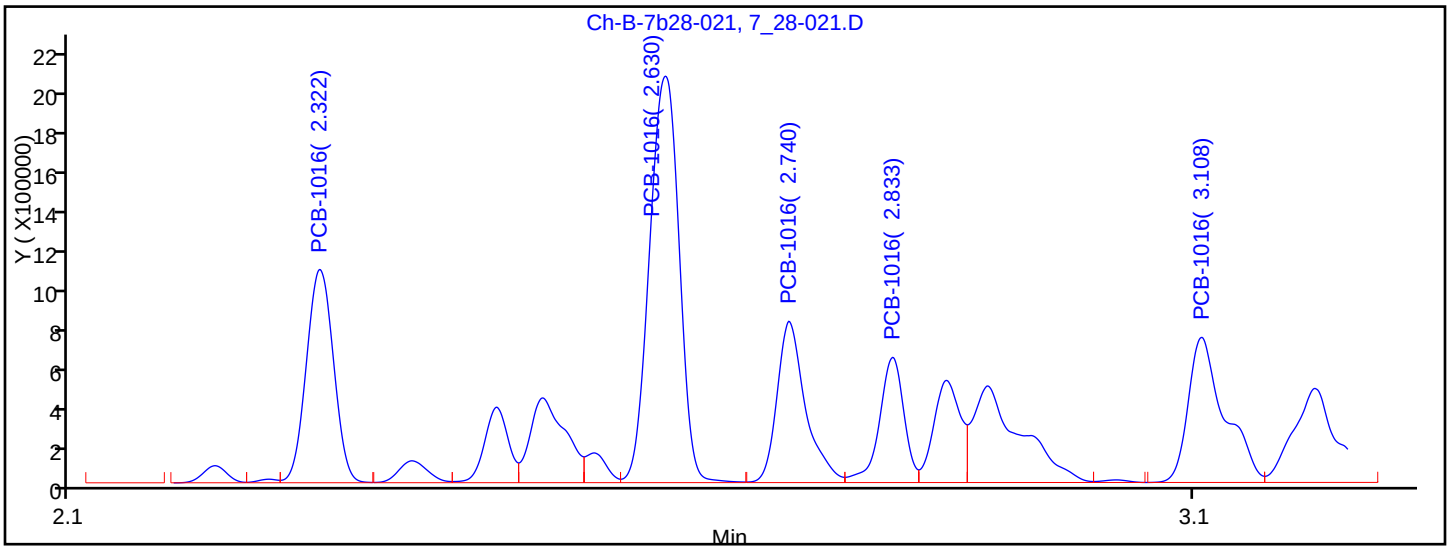
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 1739471
2.630	Response = 3627671
2.740	Response = 1365841
2.833	Response = 915091
3.108	Response = 1576973



Manual Integration Results

2.322	Response = 1750650	M
2.630	Response = 3648843	M
2.740	Response = 1382864	M
2.833	Response = 930174	M
3.108	Response = 1590176	M

Reviewer: owenj, 28-Mar-2017 15:37:47

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:42 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date: 28-Mar-2017 13:00:25 Instrument ID: HP6890-7

Lims ID: IC 6

Client ID:

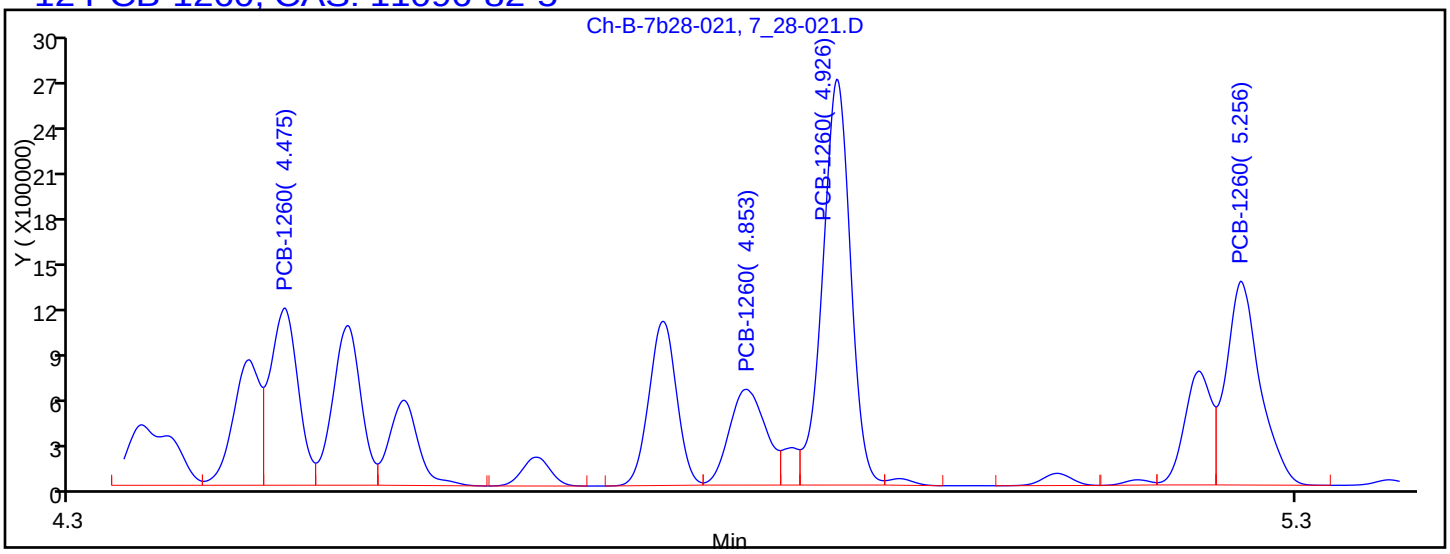
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

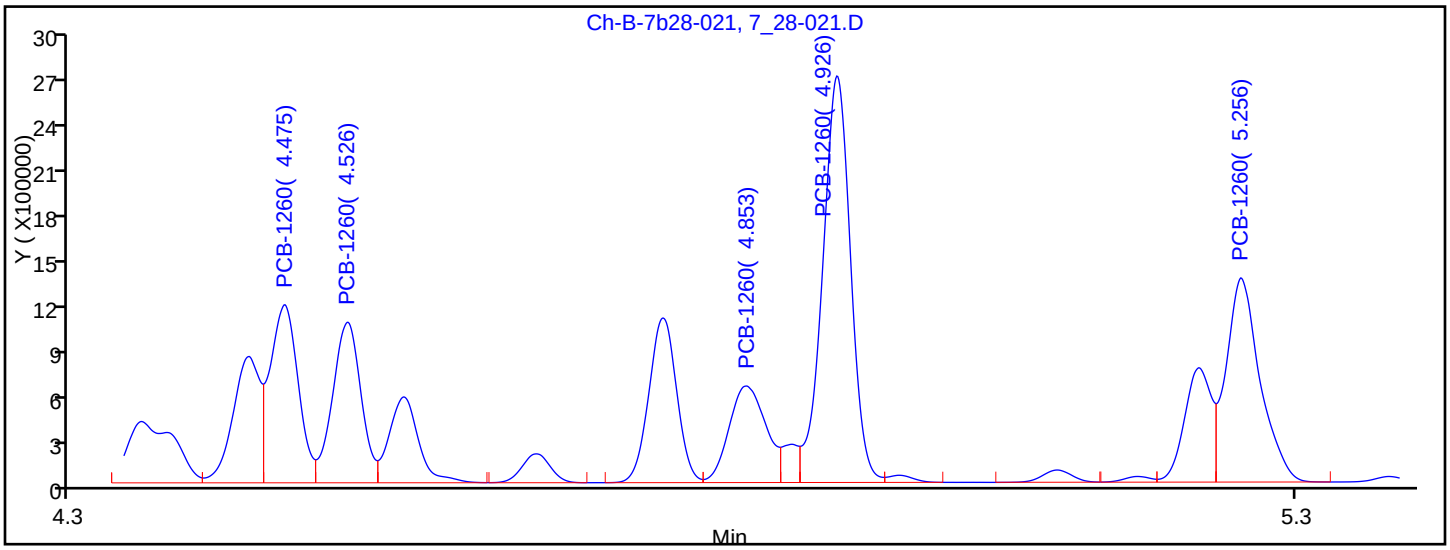
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.475	Response = 1816865
4.784	Response = 1674827
4.853	Response = 1296082
4.926	Response = 4177525
5.256	Response = 2522156



Manual Integration Results

4.475	Response = 1832024	M
4.526	Response = 1681113	M
4.853	Response = 1316272	M
4.926	Response = 4197806	M
5.256	Response = 2530850	M

Reviewer: owenj, 28-Mar-2017 15:47:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-Mar-2017 13:16:37 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:26

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14198667	0.5000	0.5000	
2	1.050	1.050	0.000	25919091	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.092	2.092	0.000	443674	0.0125	0.0126	
2	1.629	1.629	0.000	736370	0.0125	0.0127	
						RPD = 0.55	
9 PCB-1016							M
1	2.681	2.681	0.000	559237	0.5000	0.5184	
1	2.834	2.834	0.000	343391	0.5000	0.5153	
1	3.038	3.038	0.000	1171814	0.5000	0.5111	
1	3.126	3.126	0.000	439612	0.5000	0.5111	
1	3.188	3.188	0.000	302019	0.5000	0.5088	
		Average of Peak Amounts =				0.5129	
2	2.322	2.322	0.000	924630	0.5000	0.5229	M
2	2.631	2.631	0.000	1883383	0.5000	0.5098	M
2	2.741	2.741	0.000	717244	0.5000	0.5121	M
2	2.833	2.833	0.000	478556	0.5000	0.5090	M
2	3.108	3.108	0.000	824152	0.5000	0.5114	M
		Average of Peak Amounts =				0.5131	
						RPD = 0.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	889920	0.5000	0.4959	
1	5.051	5.051	0.000	497820	0.5000	0.4940	
1	5.243	5.243	0.000	472274	0.5000	0.4962	
1	5.449	5.449	0.000	1182397	0.5000	0.4951	
1	5.706	5.706	0.000	558396	0.5000	0.4927	
		Average of Peak Amounts =				0.4948	
2	4.474	4.474	0.000	937560	0.5000	0.5023	M
2	4.526	4.526	0.000	846078	0.5000	0.4970	M
2	4.850	4.850	0.000	654832	0.5000	0.4930	M
2	4.926	4.926	0.000	2070270	0.5000	0.4860	M
2	5.256	5.256	0.000	1260909	0.5000	0.4890	M
		Average of Peak Amounts =				0.4935	
						RPD = 0.26	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.000	260424	0.0125	0.0128	
2	6.310	6.310	0.000	476855	0.0125	0.0126	
						RPD = 1.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00005 Amount Added: 1.00 Units: mL

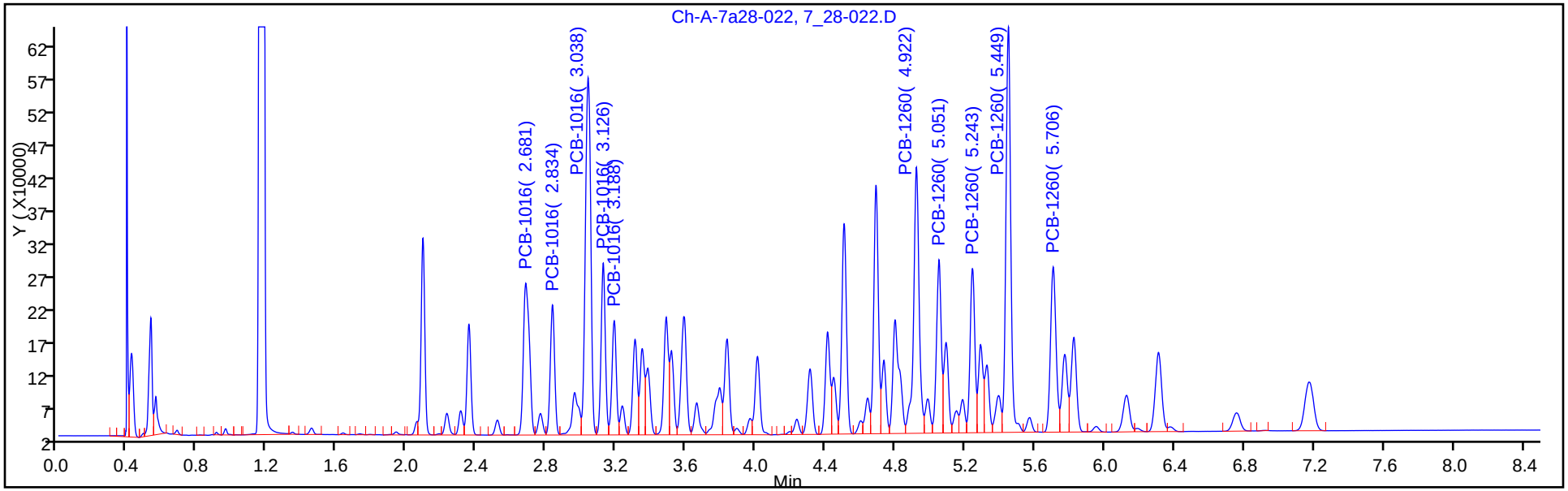
Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

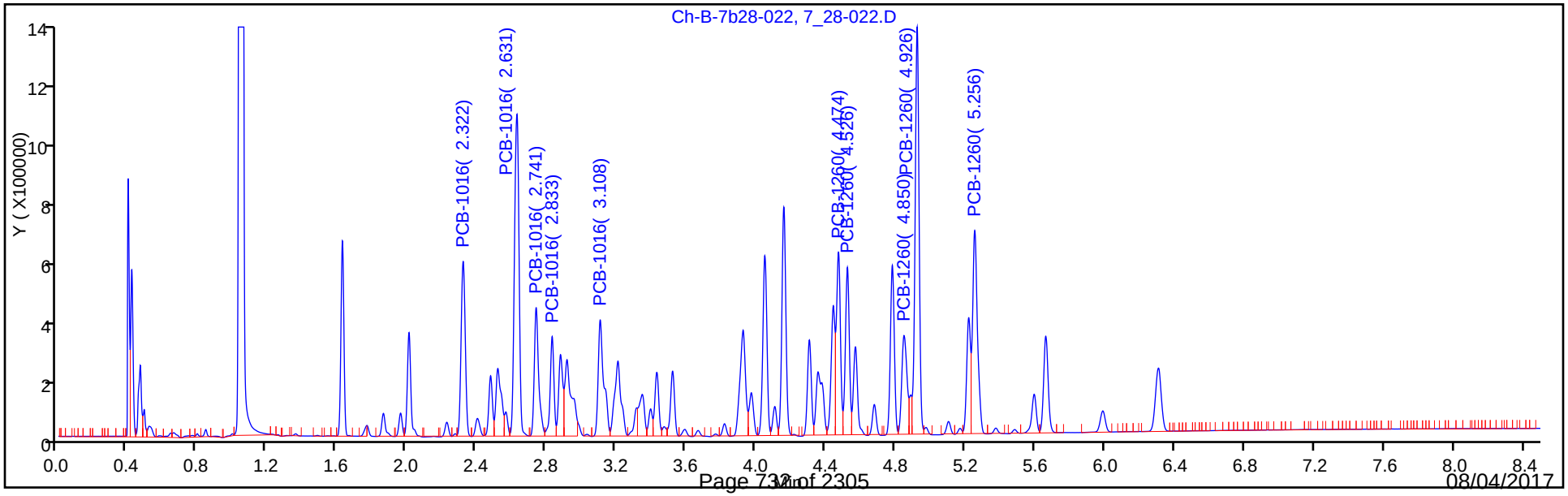
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date:	28-Mar-2017 13:16:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date: 28-Mar-2017 13:16:37 Instrument ID: HP6890-7

Lims ID: ICIS 5

Client ID:

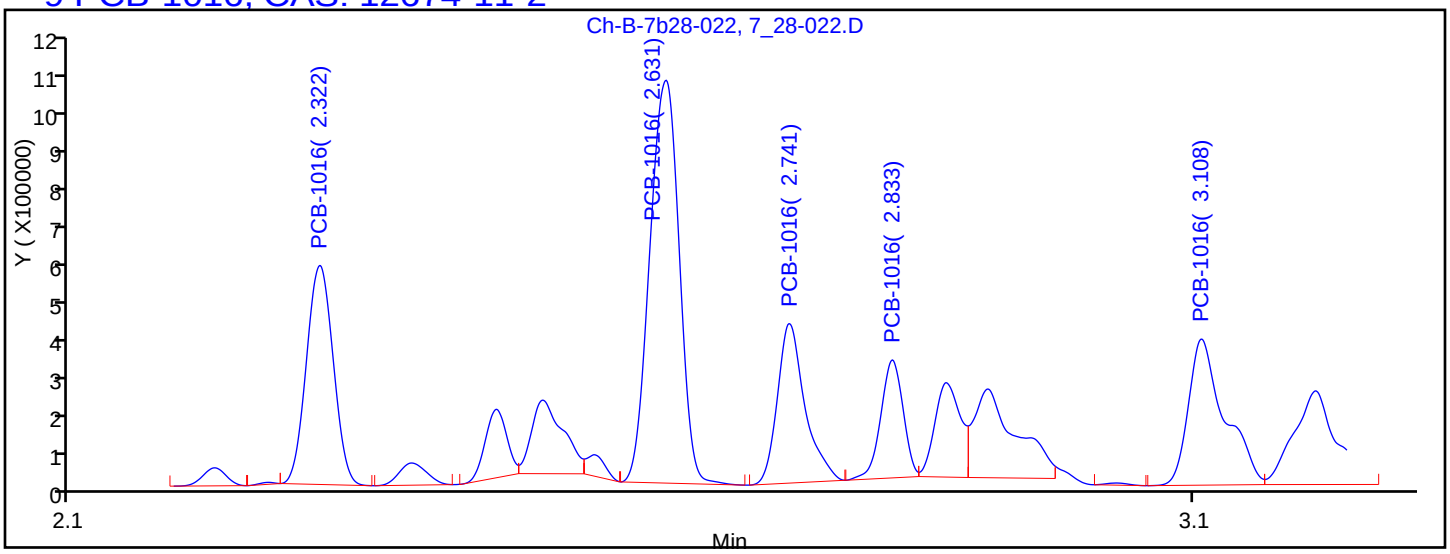
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

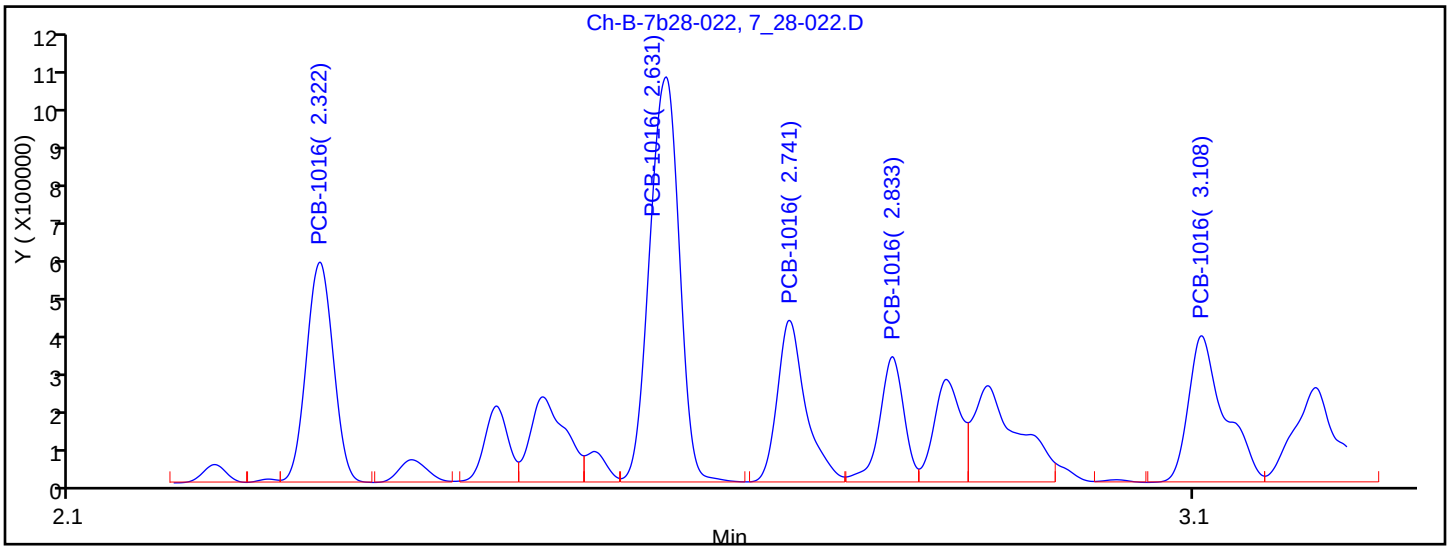
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 916437
2.631	Response = 1855048
2.741	Response = 685140
2.833	Response = 412040
3.108	Response = 823930



Manual Integration Results

2.322	Response = 924630	M
2.631	Response = 1883383	M
2.741	Response = 717244	M
2.833	Response = 478556	M
3.108	Response = 824152	M

Reviewer: owenj, 28-Mar-2017 15:38:19

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date: 28-Mar-2017 13:16:37 Instrument ID: HP6890-7

Lims ID: ICIS 5

Client ID:

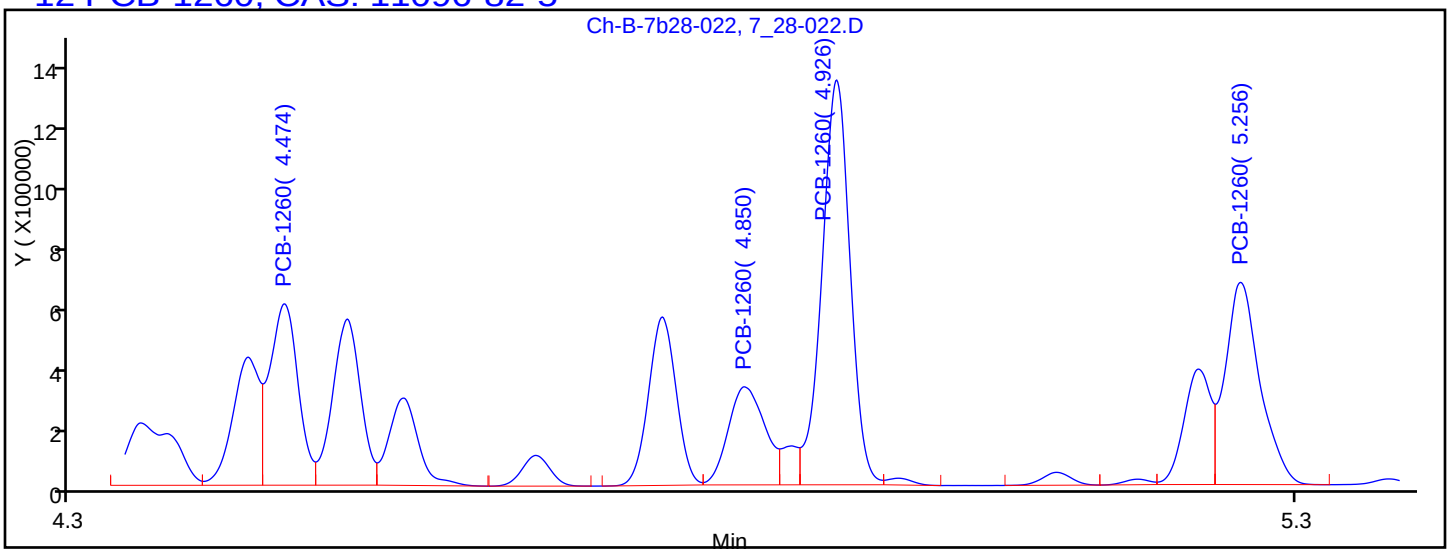
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

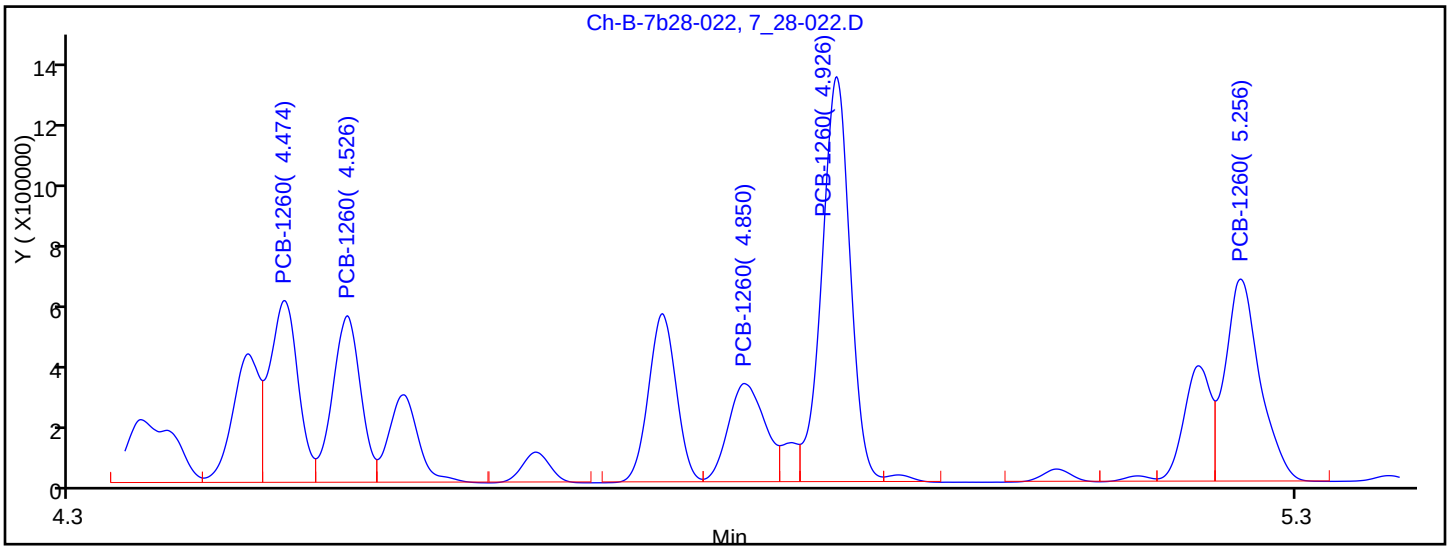
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 934165
4.783	Response = 844891
4.850	Response = 653626
4.926	Response = 2069392
5.256	Response = 1266604



Manual Integration Results

4.474	Response = 937560	M
4.526	Response = 846078	M
4.850	Response = 654832	M
4.926	Response = 2070270	M
5.256	Response = 1260909	M

Reviewer: owenj, 28-Mar-2017 15:38:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Mar-2017 13:32:29 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14162788	0.5000	0.5000	
2	1.050	1.050	0.000	25970868	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	190560	0.005000	0.005152	
2	1.629	1.629	0.000	314174	0.005000	0.005296	
						RPD = 2.77	
9 PCB-1016							M
1	2.679	2.681	-0.002	240440	0.2000	0.2113	
1	2.833	2.834	-0.001	146148	0.2000	0.2034	
1	3.038	3.038	0.000	477683	0.2000	0.2038	
1	3.124	3.126	-0.002	183983	0.2000	0.2049	
1	3.187	3.188	-0.001	124672	0.2000	0.2042	
		Average of Peak Amounts =				0.2055	
2	2.322	2.322	0.000	407072	0.2000	0.2144	M
2	2.630	2.631	-0.001	801927	0.2000	0.2095	M
2	2.740	2.741	-0.001	312839	0.2000	0.2140	M
2	2.832	2.833	0.000	208461	0.2000	0.2145	M
2	3.107	3.108	-0.001	357784	0.2000	0.2152	M
		Average of Peak Amounts =				0.2135	
						RPD = 3.82	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.922	-0.001	366134	0.2000	0.1984	
1	5.050	5.051	-0.001	209980	0.2000	0.2029	
1	5.242	5.243	0.000	198801	0.2000	0.2032	
1	5.447	5.449	-0.002	484581	0.2000	0.1990	
1	5.704	5.706	-0.002	236680	0.2000	0.2027	
		Average of Peak Amounts =				0.2013	
2	4.473	4.474	-0.001	388118	0.2000	0.2015	M
2	4.525	4.526	-0.001	355175	0.2000	0.2037	M
2	4.851	4.850	0.001	278936	0.2000	0.2064	M
2	4.925	4.926	-0.001	839381	0.2000	0.1962	M
2	5.255	5.256	-0.001	513815	0.2000	0.1978	M
		Average of Peak Amounts =				0.2011	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.001	114381	0.005000	0.005241	
2	6.309	6.310	-0.001	197094	0.005000	0.004970	
						RPD = 5.30	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00005 Amount Added: 1.00 Units: mL

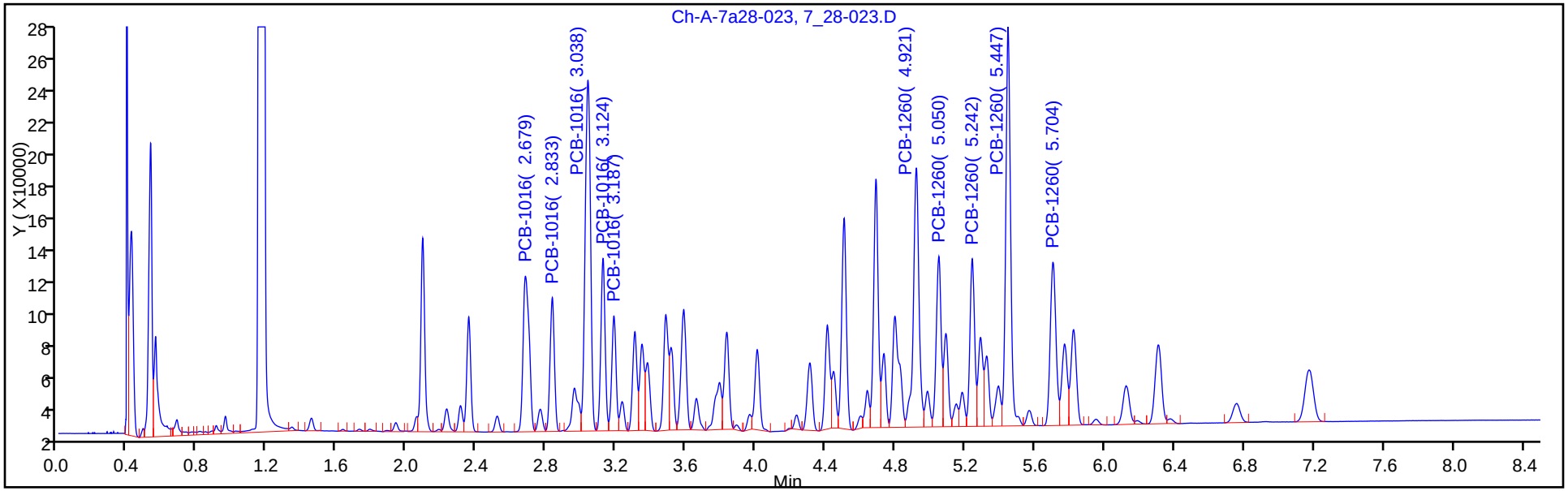
Report Date: 29-Mar-2017 10:53:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

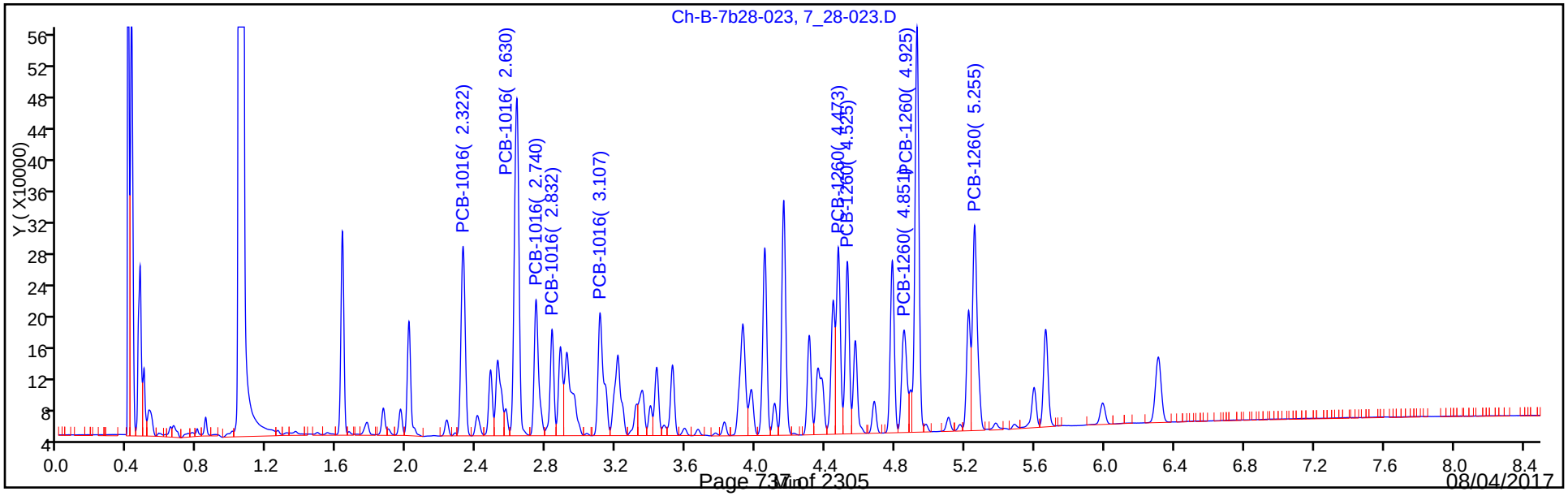
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date:	28-Mar-2017 13:32:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date: 28-Mar-2017 13:32:29 Instrument ID: HP6890-7

Lims ID: IC 4

Client ID:

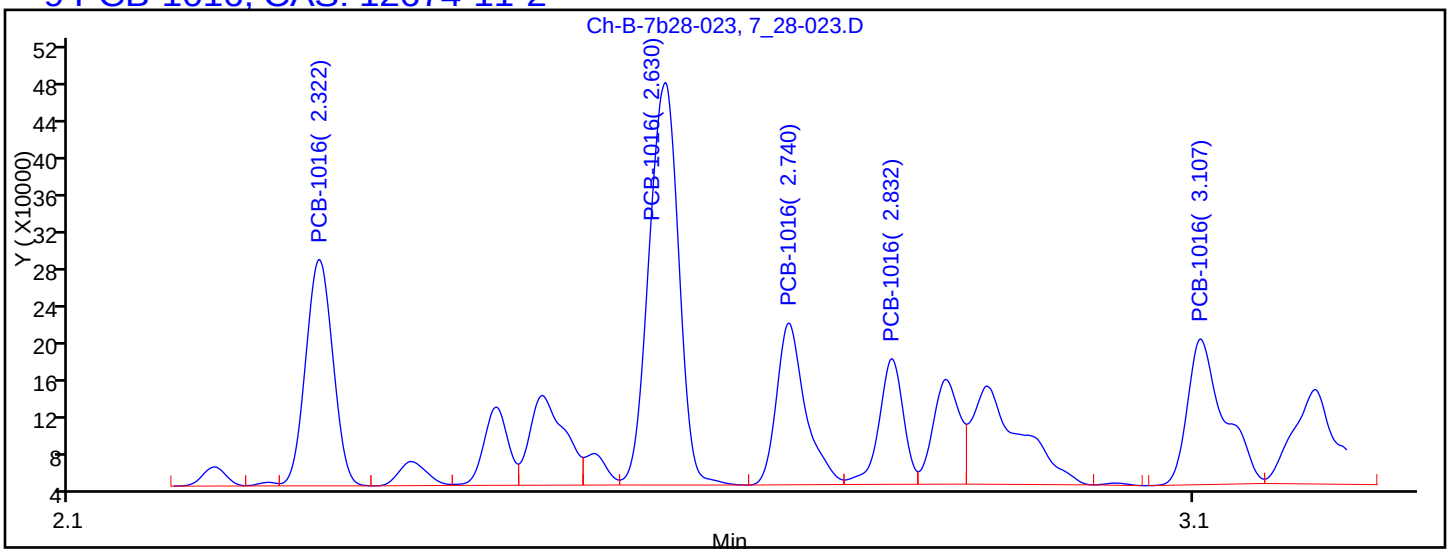
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

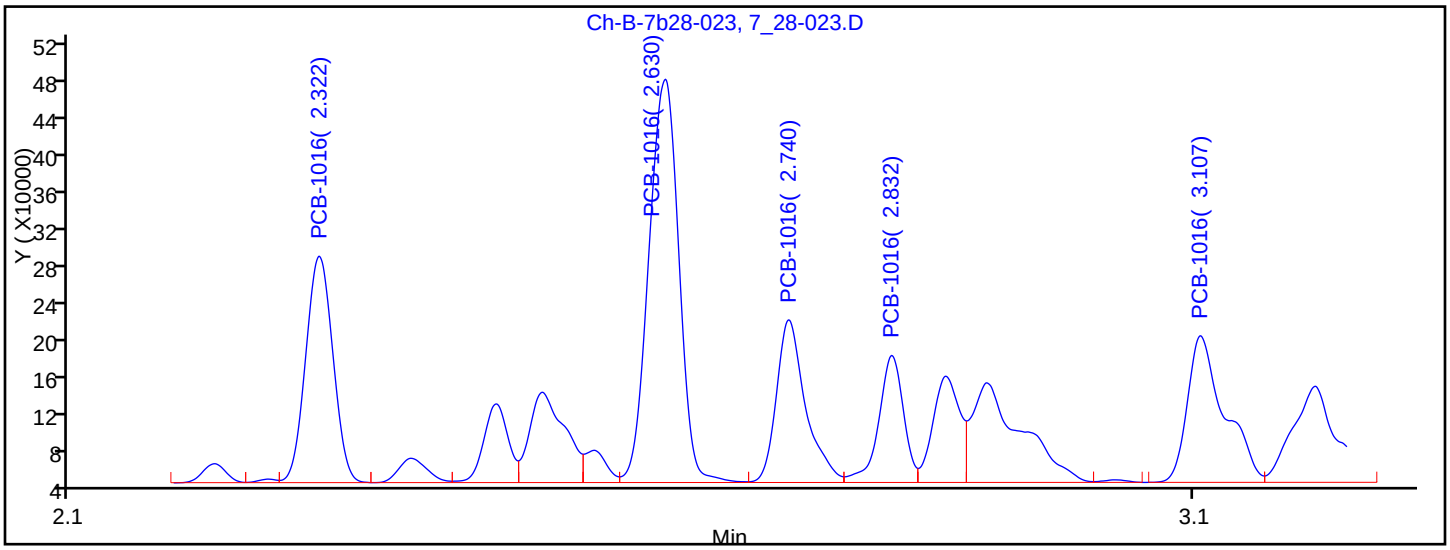
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 407180
2.630	Response = 796583
2.740	Response = 307654
2.832	Response = 202878
3.107	Response = 350998



Manual Integration Results

2.322	Response = 407072	M
2.630	Response = 801927	M
2.740	Response = 312839	M
2.832	Response = 208461	M
3.107	Response = 357784	M

Reviewer: owenj, 28-Mar-2017 15:38:51

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date: 28-Mar-2017 13:32:29 Instrument ID: HP6890-7

Lims ID: IC 4

Client ID:

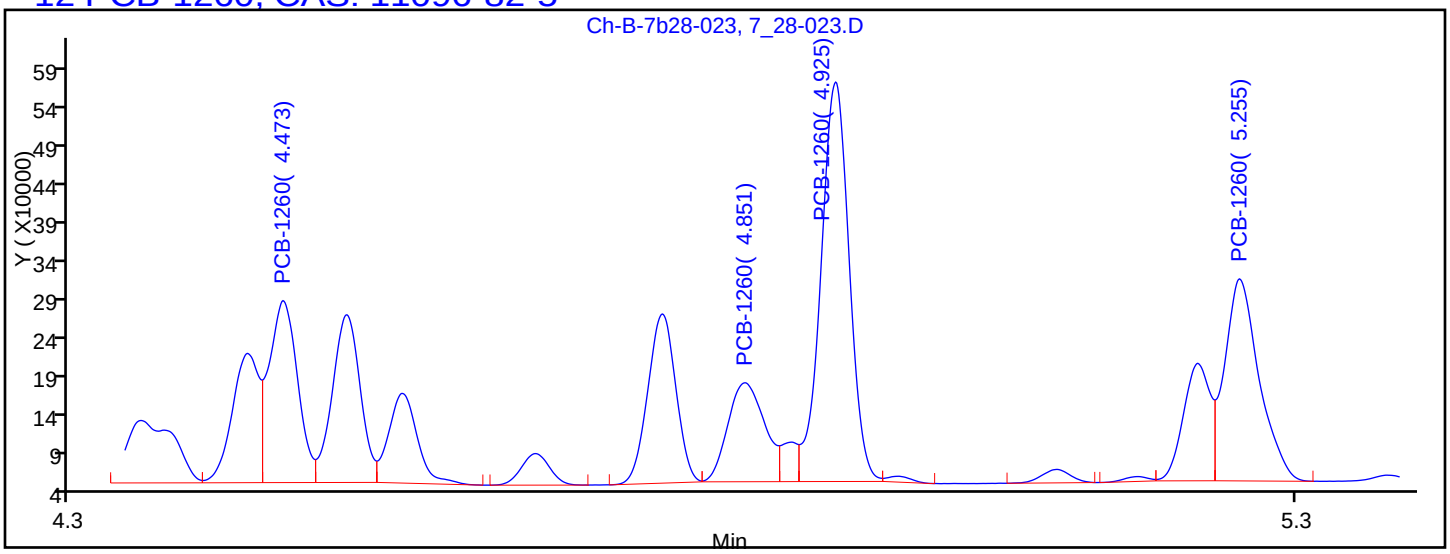
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

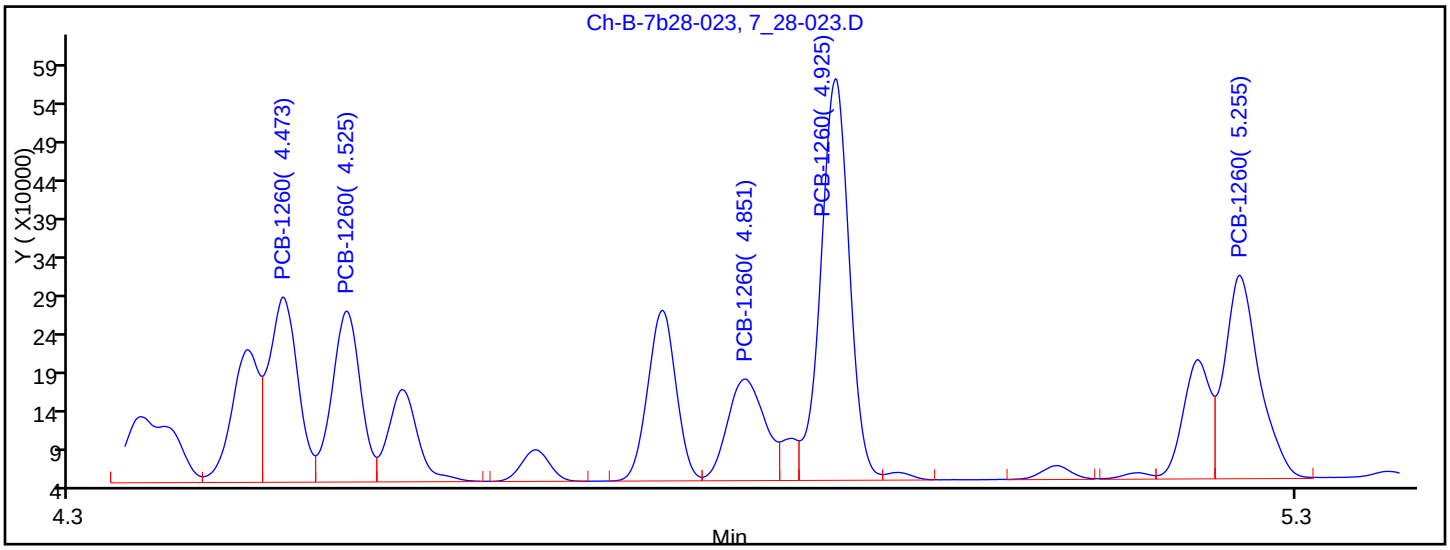
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.473	Response = 376487
4.783	Response = 345644
4.851	Response = 265575
4.925	Response = 825538
5.255	Response = 505120



Manual Integration Results

4.473	Response = 388118	M
4.525	Response = 355175	M
4.851	Response = 278936	M
4.925	Response = 839381	M
5.255	Response = 513815	M

Reviewer: owenj, 28-Mar-2017 15:46:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 13:48:24 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:51 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:15

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14095092	0.5000	0.5000	
2	1.051	1.050	0.001	25666794	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	103225	0.002500	0.002588	
2	1.629	1.629	0.000	165536	0.002500	0.002747	
						RPD = 5.96	
9 PCB-1016							
1	2.680	2.681	-0.001	131166	0.1000	0.1062	
1	2.833	2.834	-0.002	79759	0.1000	0.0986	
1	3.038	3.038	0.000	252373	0.1000	0.1042	
1	3.123	3.126	-0.003	101002	0.1000	0.1056	
1	3.187	3.188	-0.001	68213	0.1000	0.1074	
		Average of Peak Amounts =				0.1044	
2	2.322	2.322	0.000	221184	0.1000	0.1056	
2	2.629	2.631	-0.002	427950	0.1000	0.1075	
2	2.740	2.741	-0.001	168178	0.1000	0.1092	
2	2.832	2.833	0.000	111933	0.1000	0.1110	
2	3.108	3.108	0.000	191892	0.1000	0.1117	
		Average of Peak Amounts =				0.1090	
						RPD = 4.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.922	-0.002	195331	0.1000	0.1015	
1	5.048	5.051	-0.003	113127	0.1000	0.1051	
1	5.242	5.243	0.000	106177	0.1000	0.1041	
1	5.447	5.449	-0.002	248968	0.1000	0.0992	
1	5.705	5.706	-0.001	125509	0.1000	0.1027	
		Average of Peak Amounts =				0.1025	
2	4.474	4.474	0.000	203046	0.1000	0.1018	M
2	4.525	4.526	-0.001	186861	0.1000	0.1048	M
2	4.850	4.850	0.000	145043	0.1000	0.1059	M
2	4.924	4.926	-0.002	425544	0.1000	0.1003	M
2	5.255	5.256	-0.001	256997	0.1000	0.0992	M
		Average of Peak Amounts =				0.1024	
						RPD = 0.11	
$ 15 DCB Decachlorobiphenyl							
1	7.175	7.173	0.003	61259	0.002500	0.002505	
2	6.309	6.310	-0.001	105526	0.002500	0.002523	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00006 Amount Added: 1.00 Units: mL

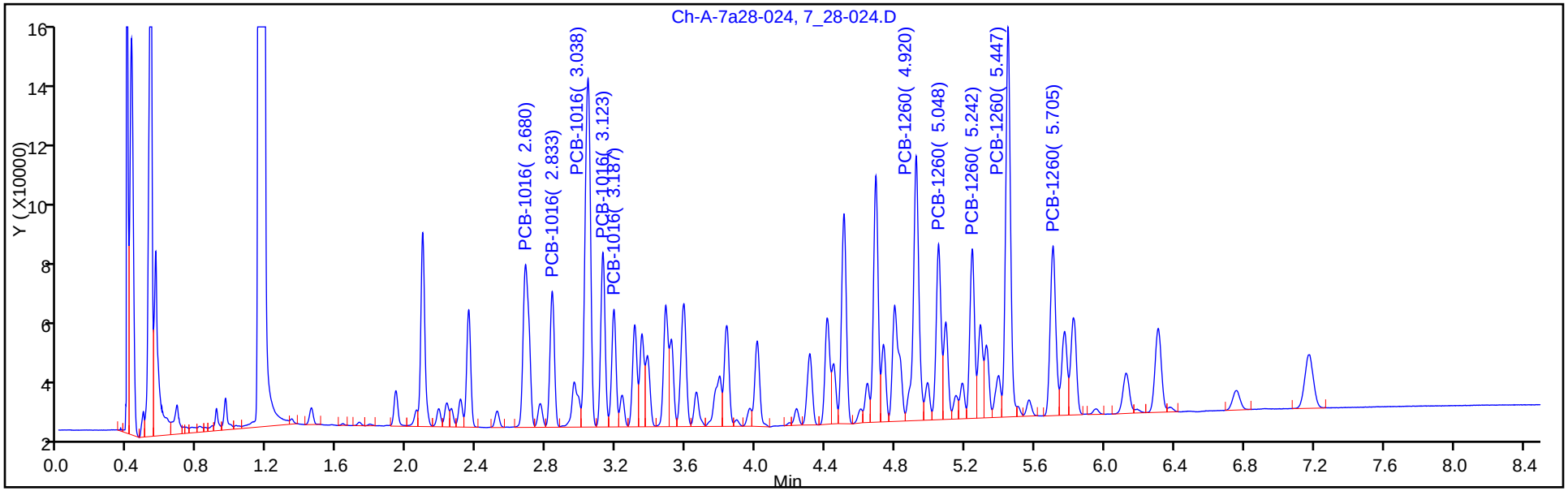
Report Date: 29-Mar-2017 10:53:52 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

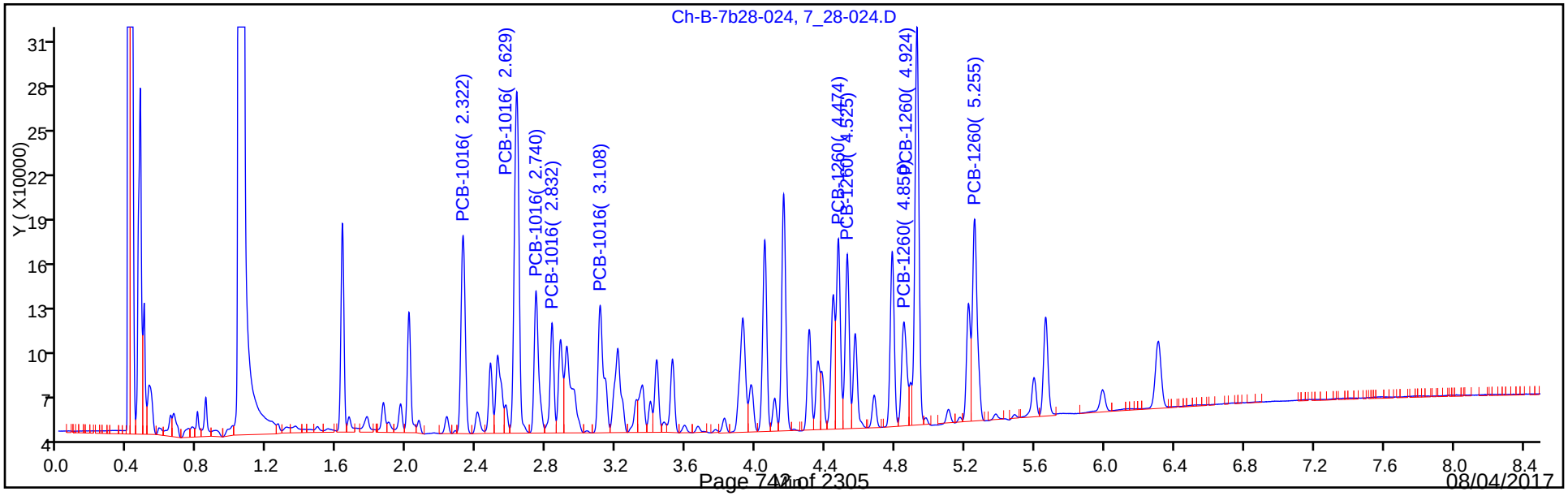
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D

Injection Date:	28-Mar-2017 13:48:24	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:52 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D

Injection Date: 28-Mar-2017 13:48:24 Instrument ID: HP6890-7

Lims ID: IC 3

Client ID:

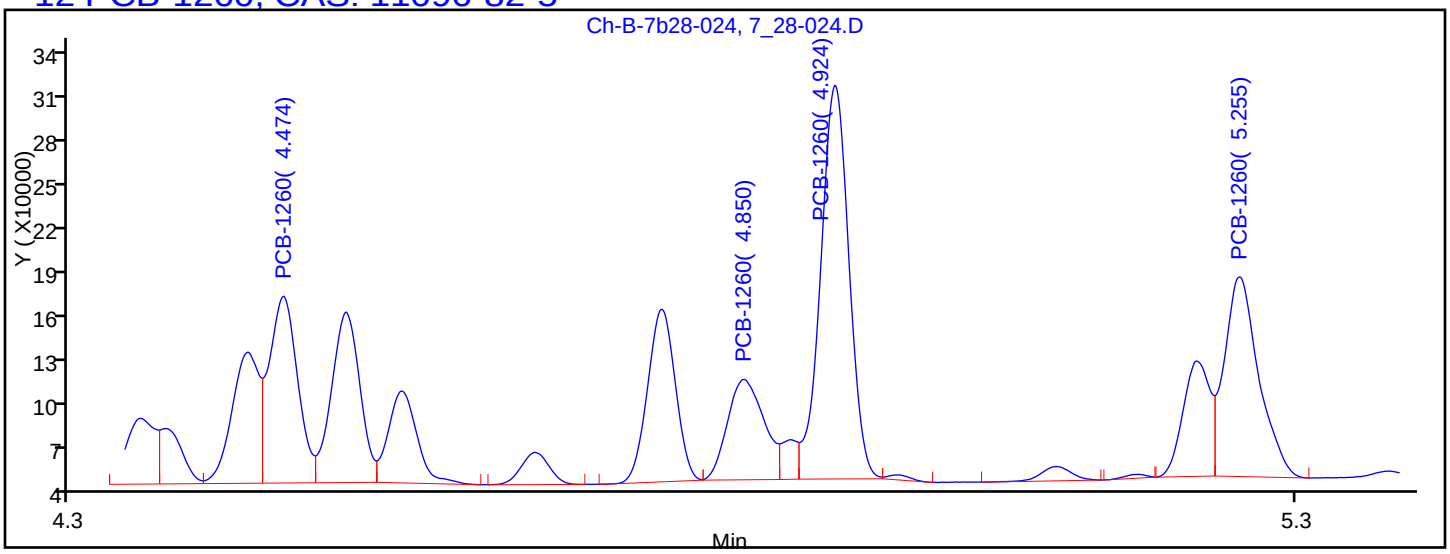
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

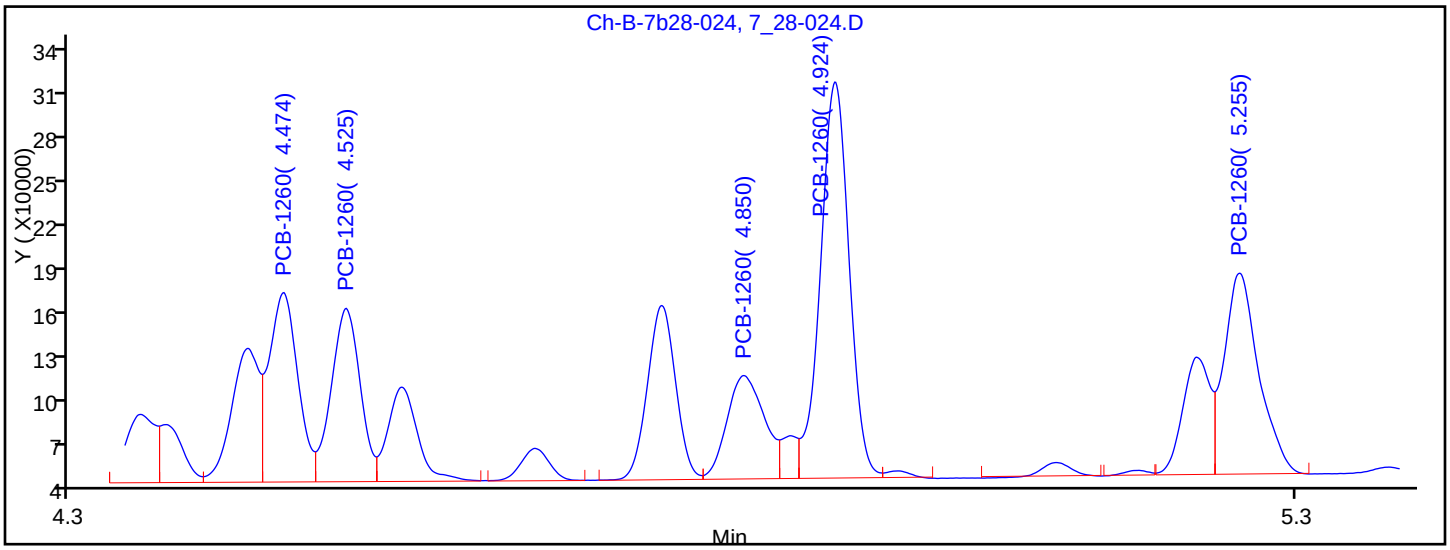
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 197840
4.783	Response = 178698
4.850	Response = 137219
4.924	Response = 417276
5.255	Response = 254451



Manual Integration Results

4.474	Response = 203046	M
4.525	Response = 186861	M
4.850	Response = 145043	M
4.924	Response = 425544	M
5.255	Response = 256997	M

Reviewer: owenj, 28-Mar-2017 15:45:50

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 14:04:23 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:55 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 14:59:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14205944	0.5000	0.5000	
2	1.051	1.050	0.001	25850188	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.092	-0.001	54964	0.001250	0.001144	M
2	1.630	1.629	0.001	88309	0.001250	0.001378	M
						RPD = 18.55	
9 PCB-1016							M
1	2.679	2.681	-0.002	70180	0.0500	0.0464	M
1	2.833	2.834	-0.001	42348	0.0500	0.0384	M
1	3.039	3.038	0.001	131470	0.0500	0.0497	M
1	3.123	3.126	-0.003	54848	0.0500	0.0493	M
1	3.188	3.188	0.000	35957	0.0500	0.0510	M
		Average of Peak Amounts =				0.0470	
2	2.322	2.322	0.000	119218	0.0500	0.0438	M
2	2.630	2.631	-0.001	231069	0.0500	0.0519	M
2	2.741	2.741	0.000	89547	0.0500	0.0503	M
2	2.833	2.833	0.000	58550	0.0500	0.0519	M
2	3.108	3.108	0.000	99815	0.0500	0.0523	M
		Average of Peak Amounts =				0.0500	
						RPD = 6.32	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	103183	0.0500	0.0482	
1	5.049	5.051	-0.002	59743	0.0500	0.0501	
1	5.243	5.243	0.000	56806	0.0500	0.0503	
1	5.448	5.449	-0.001	133445	0.0500	0.0493	
1	5.706	5.706	0.000	67285	0.0500	0.0492	
		Average of Peak Amounts =				0.0494	
2	4.474	4.474	0.000	107037	0.0500	0.0484	M
2	4.526	4.526	0.000	97606	0.0500	0.0506	M
2	4.850	4.850	0.000	75849	0.0500	0.0523	M
2	4.926	4.926	0.000	218116	0.0500	0.0507	M
2	5.255	5.256	-0.001	134029	0.0500	0.0505	M
		Average of Peak Amounts =				0.0505	
						RPD = 2.12	
$ 15 DCB Decachlorobiphenyl							
1	7.174	7.173	0.002	32445	0.001250	0.000992	
2	6.310	6.310	0.000	57089	0.001250	0.001184	
						RPD = 17.63	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00005 Amount Added: 1.00 Units: mL

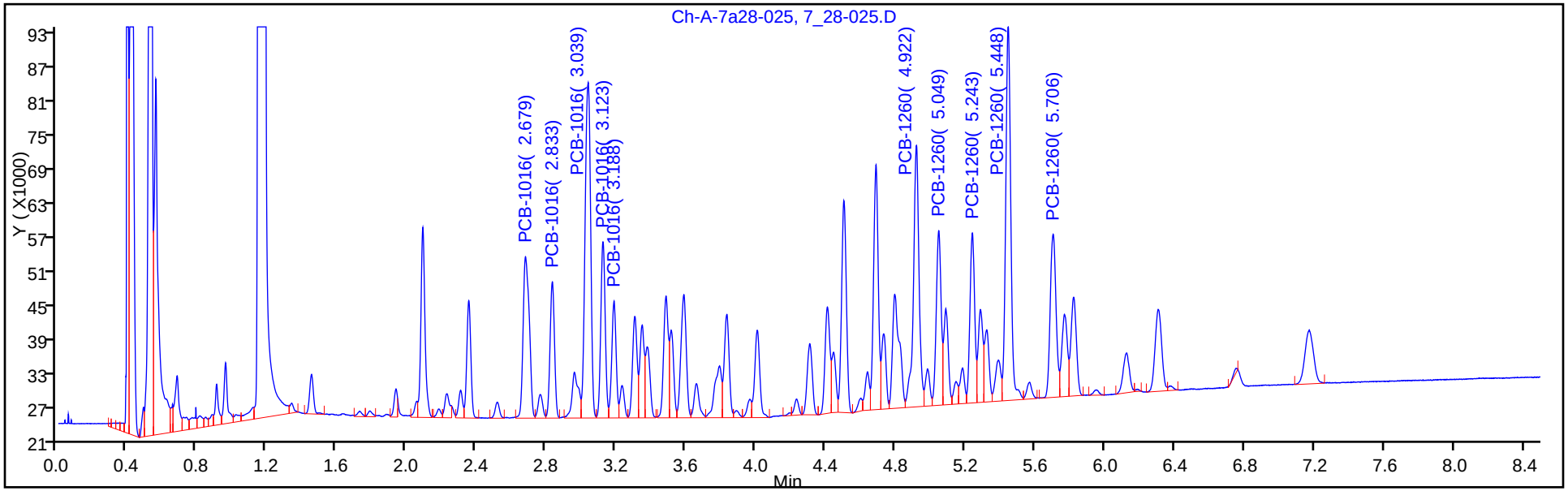
Report Date: 29-Mar-2017 10:53:56 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

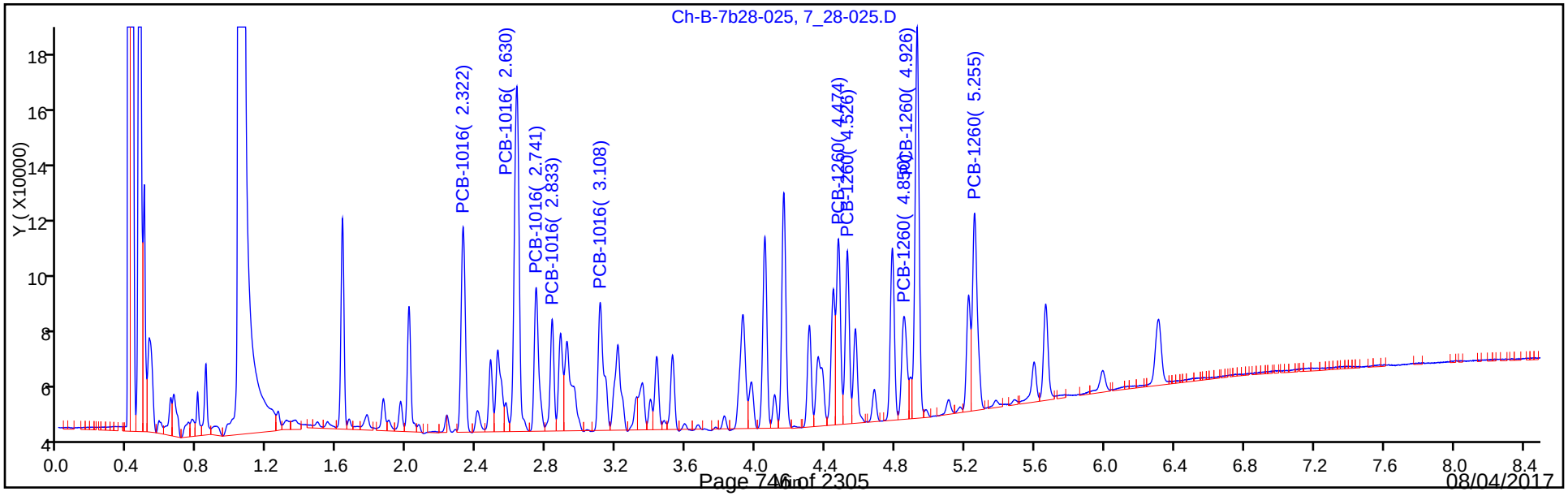
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date:	28-Mar-2017 14:04:23	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

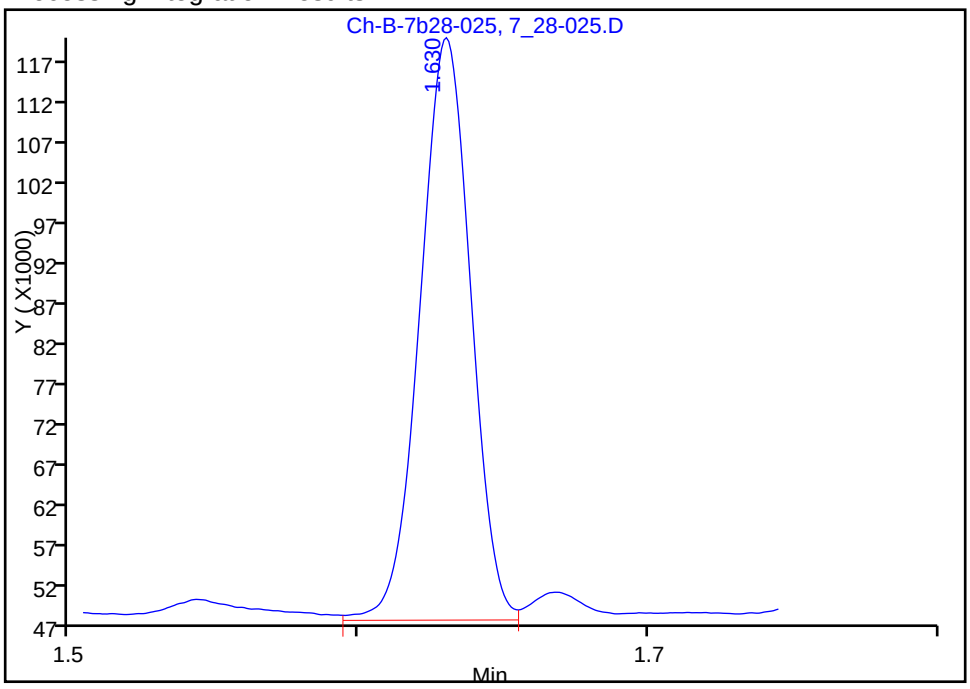
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

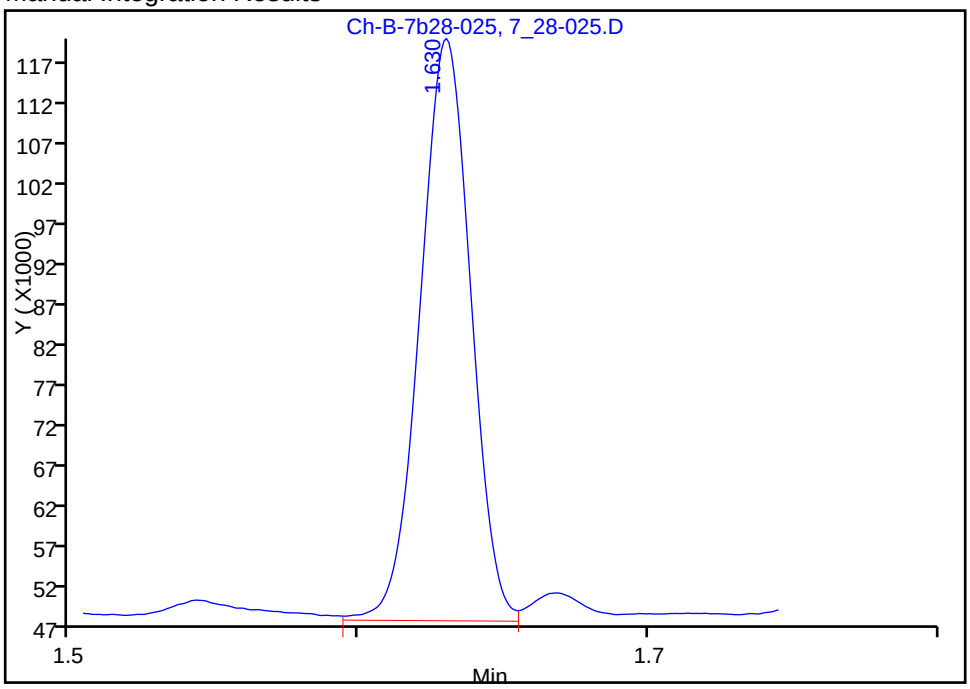
Processing Integration Results

RT: 1.63
Area: 88411
Amount: 0.001437
Amount Units: ng/uL



Manual Integration Results

RT: 1.63
Area: 88309
Amount: 0.001378
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:40:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:56 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

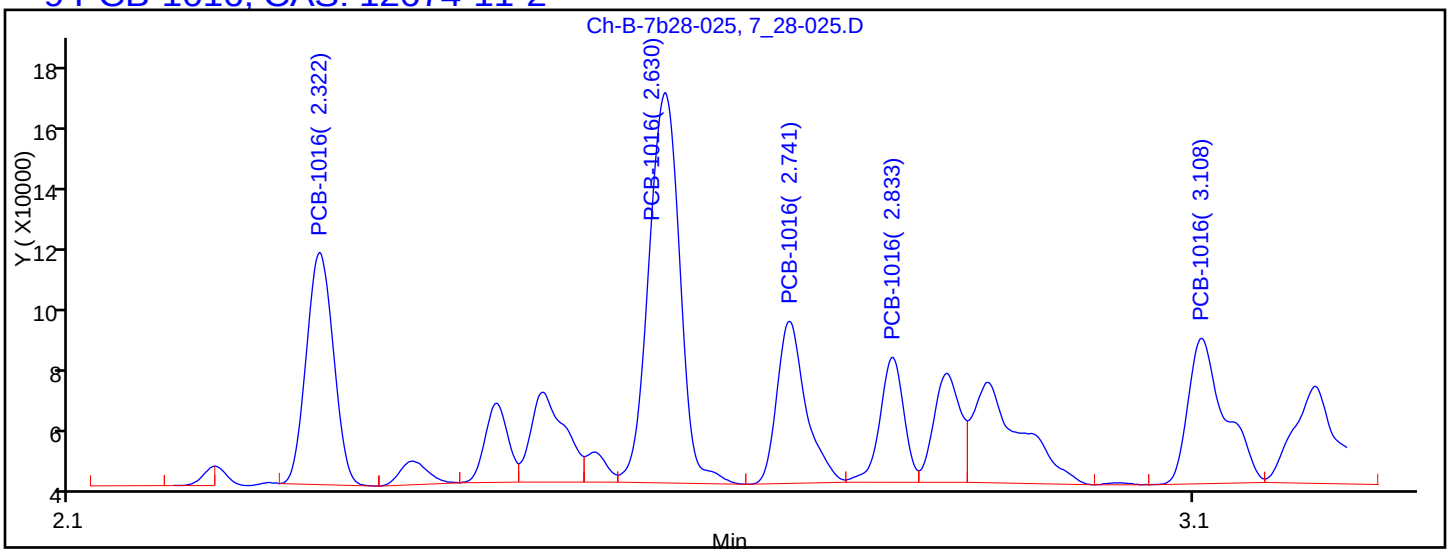
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

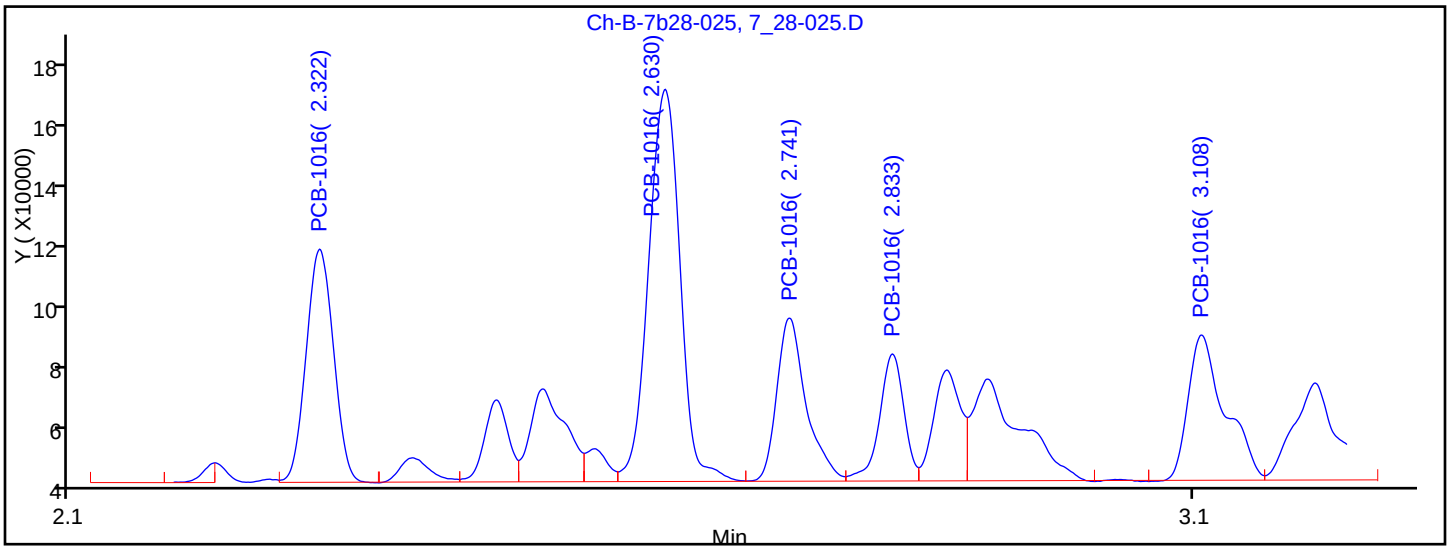
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 118084
2.630	Response = 227918
2.741	Response = 87580
2.833	Response = 56162
3.108	Response = 99973



Manual Integration Results

2.322	Response = 119218	M
2.630	Response = 231069	M
2.741	Response = 89547	M
2.833	Response = 58550	M
3.108	Response = 99815	M

Reviewer: owenj, 28-Mar-2017 15:40:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:56 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

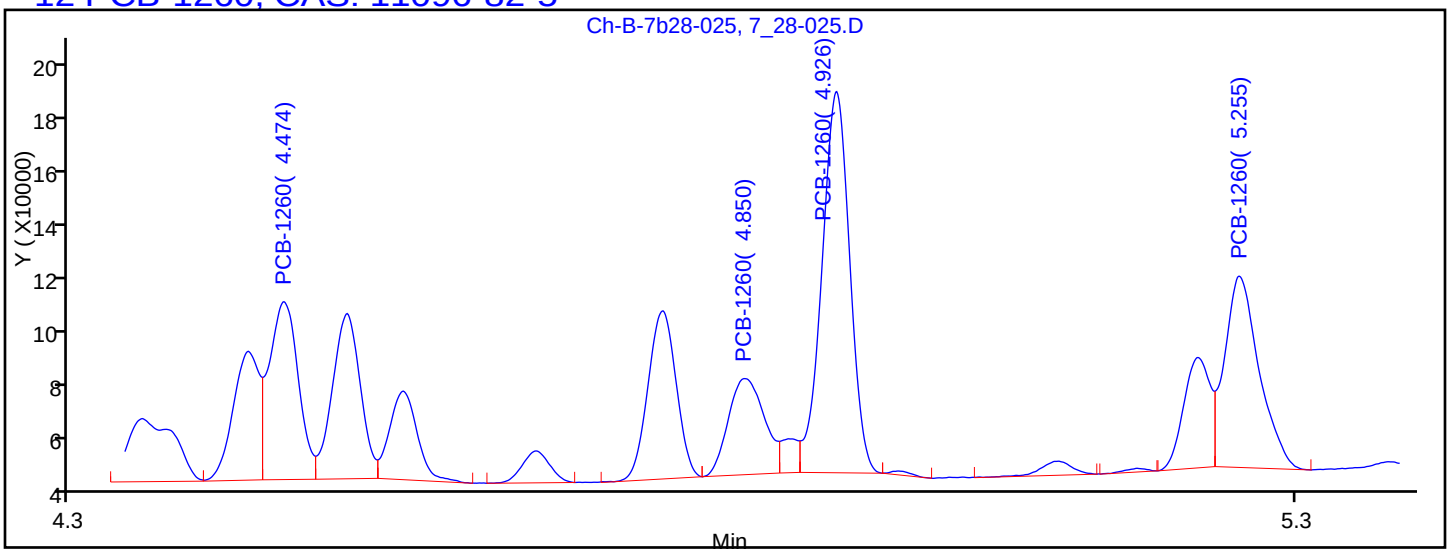
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

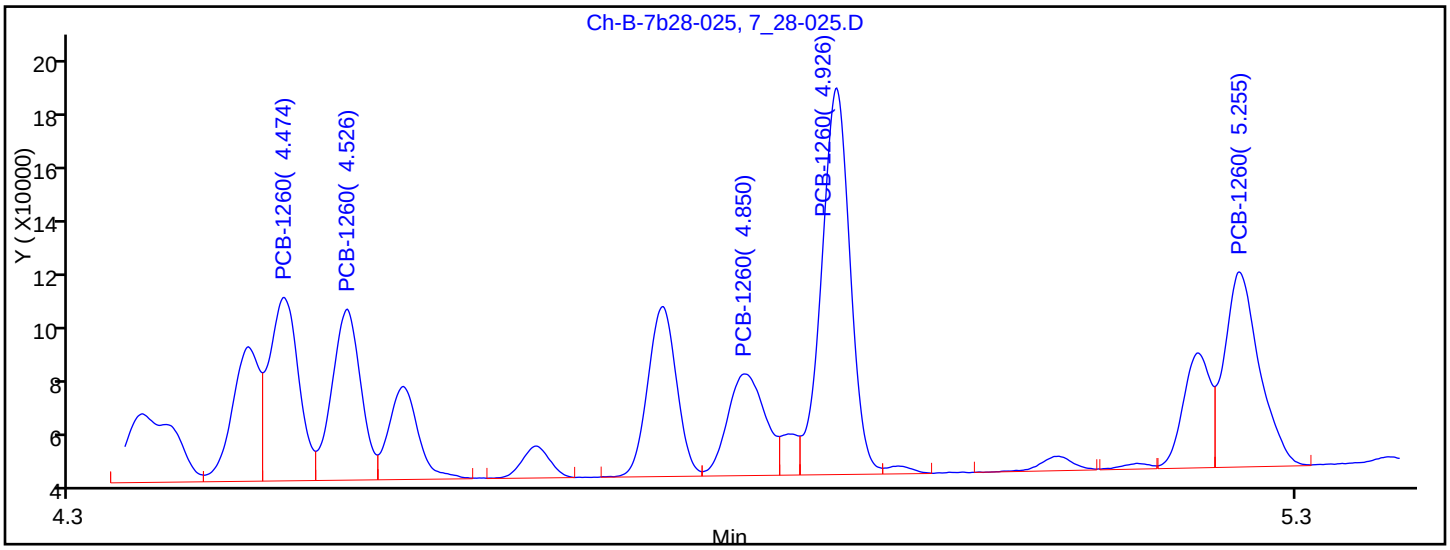
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 101360
4.783	Response = 93054
4.850	Response = 68237
4.926	Response = 208736
5.255	Response = 128774



Manual Integration Results

4.474	Response = 107037	M
4.526	Response = 97606	M
4.850	Response = 75849	M
4.926	Response = 218116	M
5.255	Response = 134029	M

Reviewer: owenj, 28-Mar-2017 15:45:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 14:20:25 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:06:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.166	0.000	13792920	0.5000	0.5000	
2	1.049	1.049	0.000	24913854	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.092	2.092	0.000	32243	0.000500	0.000504	
2	1.628	1.628	0.000	29453	0.000500	0.000370	M
						RPD = 30.68	
9 PCB-1016							M
1	2.678	2.678	0.000	40090	0.0200	0.0185	M
1	2.833	2.833	0.000	32281	0.0200	0.0240	M
1	3.038	3.038	0.000	59419	0.0200	0.0186	M
1	3.124	3.124	0.000	28193	0.0200	0.0184	M
1	3.187	3.187	0.000	16055	0.0200	0.0176	M
		Average of Peak Amounts =				0.0194	
2	2.320	2.320	0.000	75232	0.0200	0.0192	M
2	2.629	2.629	0.000	100551	0.0200	0.0166	M
2	2.741	2.741	0.000	42091	0.0200	0.0164	M
2	2.832	2.832	0.000	24350	0.0200	0.0155	M
2	3.108	3.108	0.000	39819	0.0200	0.0151	M
		Average of Peak Amounts =				0.0166	
						RPD = 15.66	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.920	0.000	53350	0.0200	0.0208	M
1	5.050	5.050	0.000	28146	0.0200	0.0190	M
1	5.243	5.243	0.000	26897	0.0200	0.0191	M
1	5.448	5.448	0.000	64230	0.0200	0.0207	M
1	5.705	5.705	0.000	33766	0.0200	0.0199	M
		Average of Peak Amounts =				0.0199	
2	4.460	4.460	0.000	53484	0.0200	0.0201	M
2	4.525	4.525	0.000	42671	0.0200	0.0186	M
2	4.850	4.850	0.000	29246	0.0200	0.0176	M
2	4.925	4.925	0.000	87081	0.0200	0.0206	M
2	5.256	5.256	0.000	55612	0.0200	0.0207	M
		Average of Peak Amounts =				0.0195	
						RPD = 1.86	
$ 15 DCB Decachlorobiphenyl							M
1	7.180	7.180	0.000	23559	0.000500	0.000570	M
2	6.309	6.309	0.000	31563	0.000500	0.000522	M
						RPD = 8.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00005 Amount Added: 1.00 Units: mL

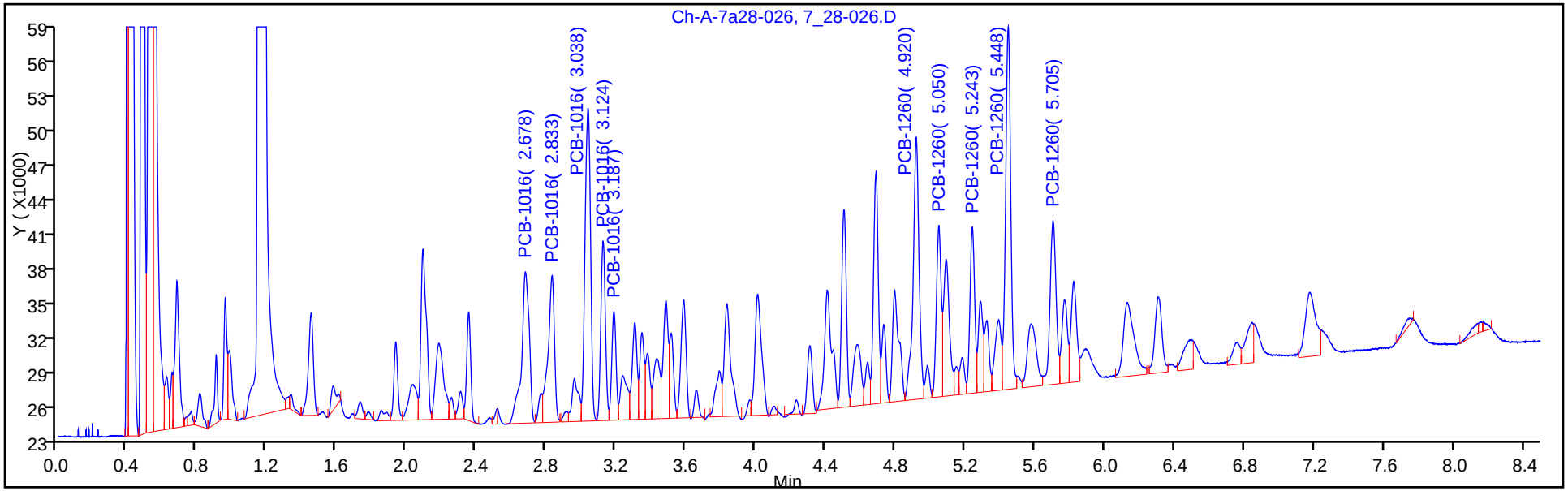
Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

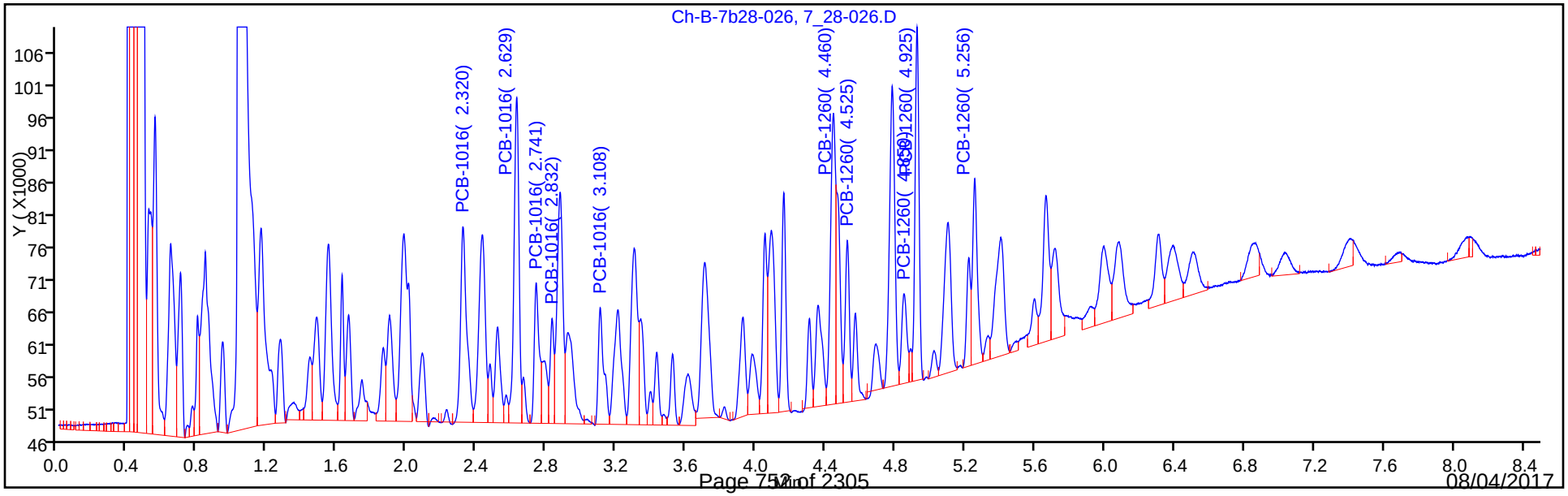
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date:	28-Mar-2017 14:20:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

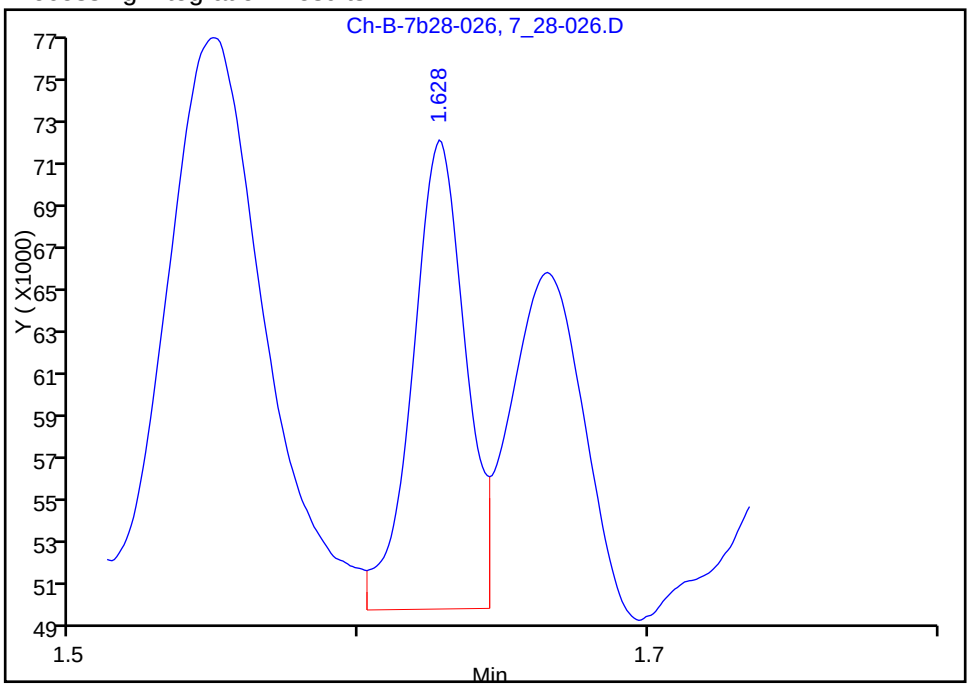
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

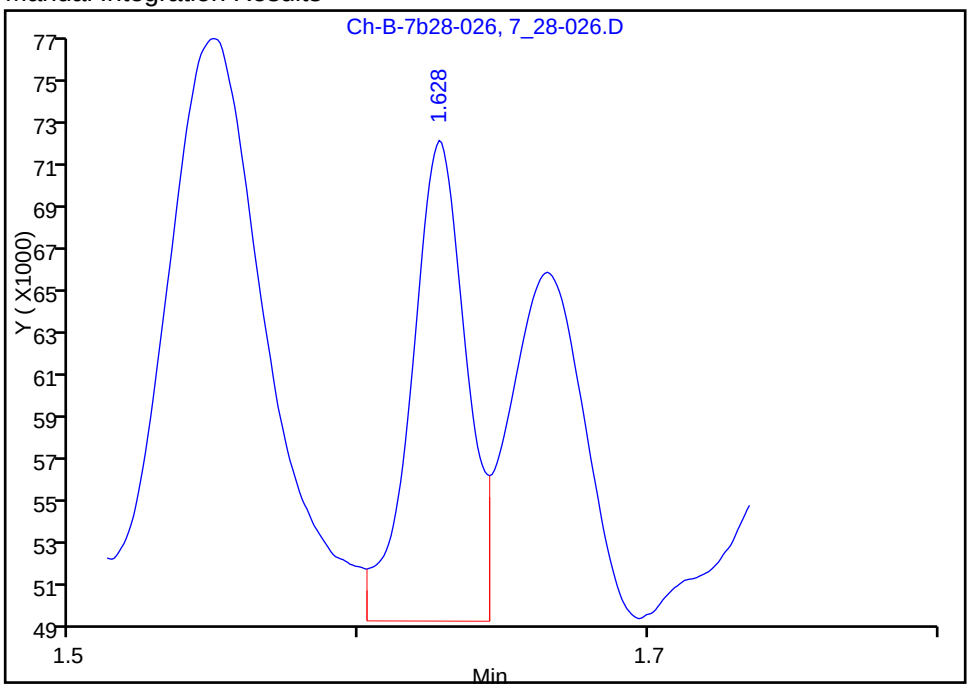
Processing Integration Results

RT: 1.63
Area: 27834
Amount: 0.000469
Amount Units: ng/uL



Manual Integration Results

RT: 1.63
Area: 29453
Amount: 0.000370
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:40:51
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

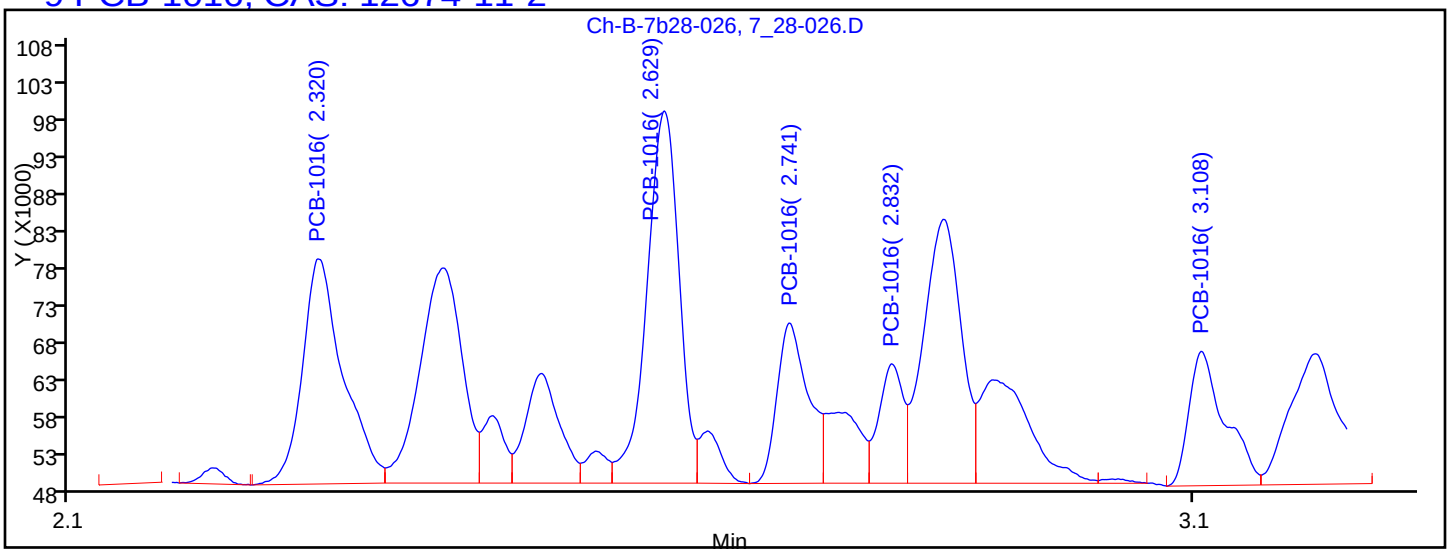
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

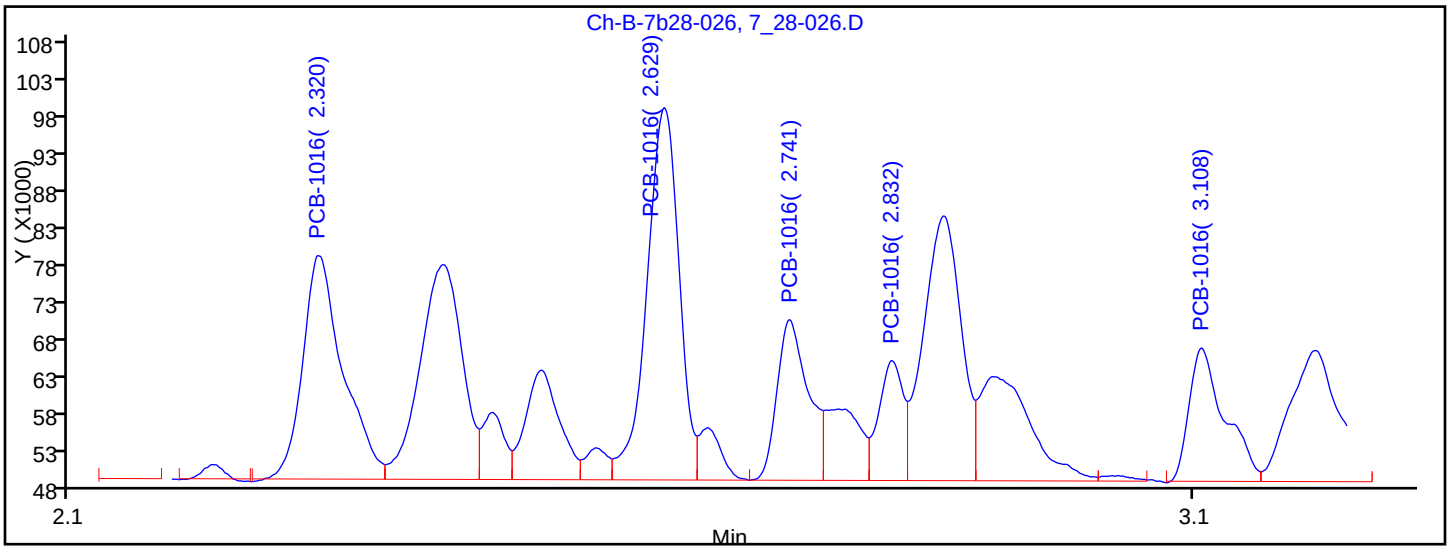
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.320	Response = 76804
2.629	Response = 100501
2.741	Response = 42000
2.832	Response = 24183
3.108	Response = 40448



Manual Integration Results

2.320	Response = 75232	M
2.629	Response = 100551	M
2.741	Response = 42091	M
2.832	Response = 24350	M
3.108	Response = 39819	M

Reviewer: owenj, 28-Mar-2017 15:40:51

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

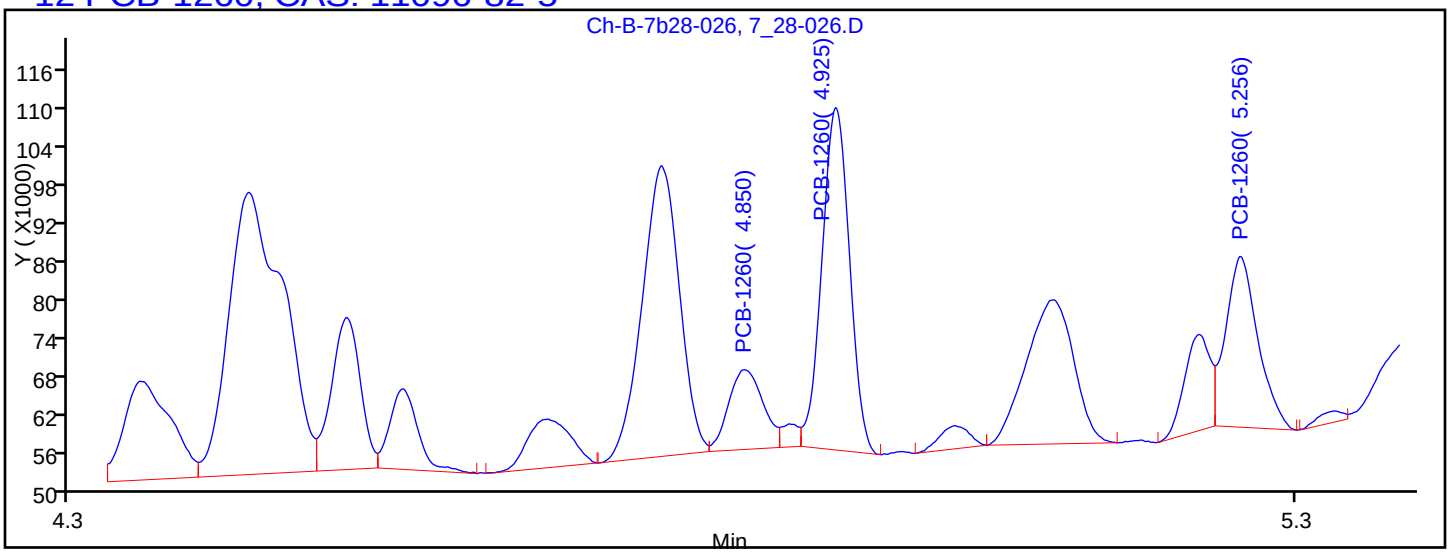
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

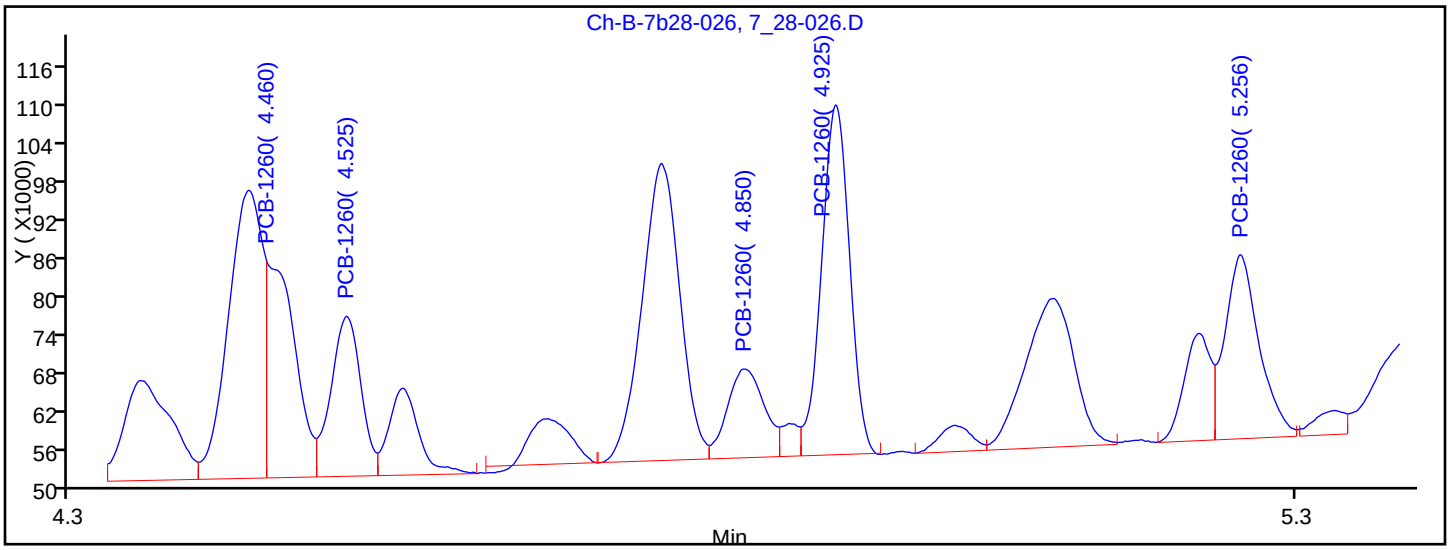
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.446	Response = 137214
4.783	Response = 96810
4.850	Response = 24679
4.925	Response = 84505
5.256	Response = 49098



Manual Integration Results

4.460	Response = 53484	M
4.525	Response = 42671	M
4.850	Response = 29246	M
4.925	Response = 87081	M
5.256	Response = 55612	M

Reviewer: owenj, 28-Mar-2017 15:40:45

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

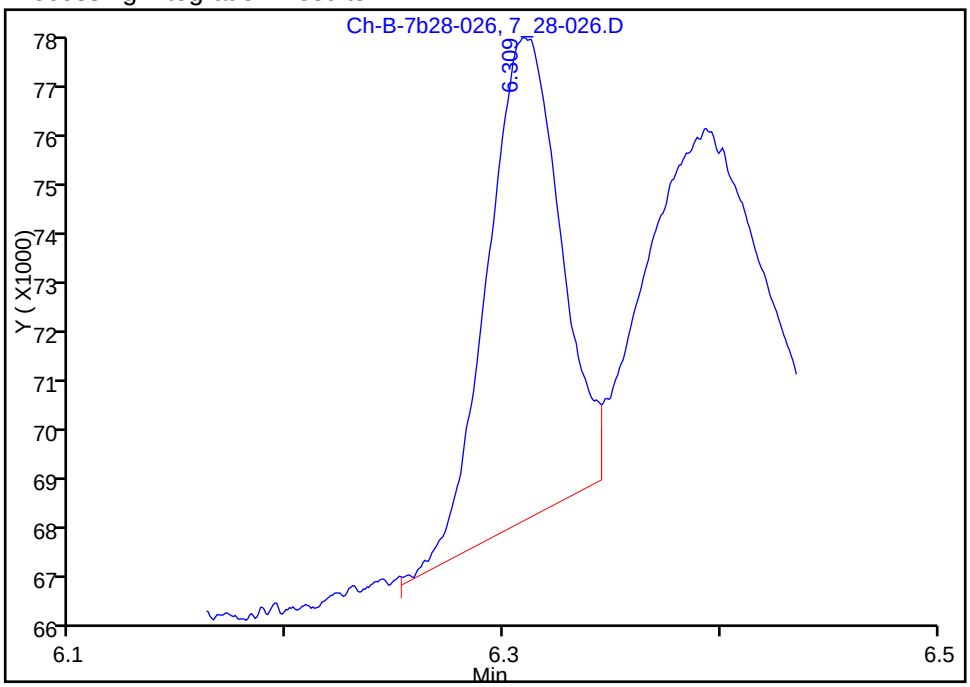
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

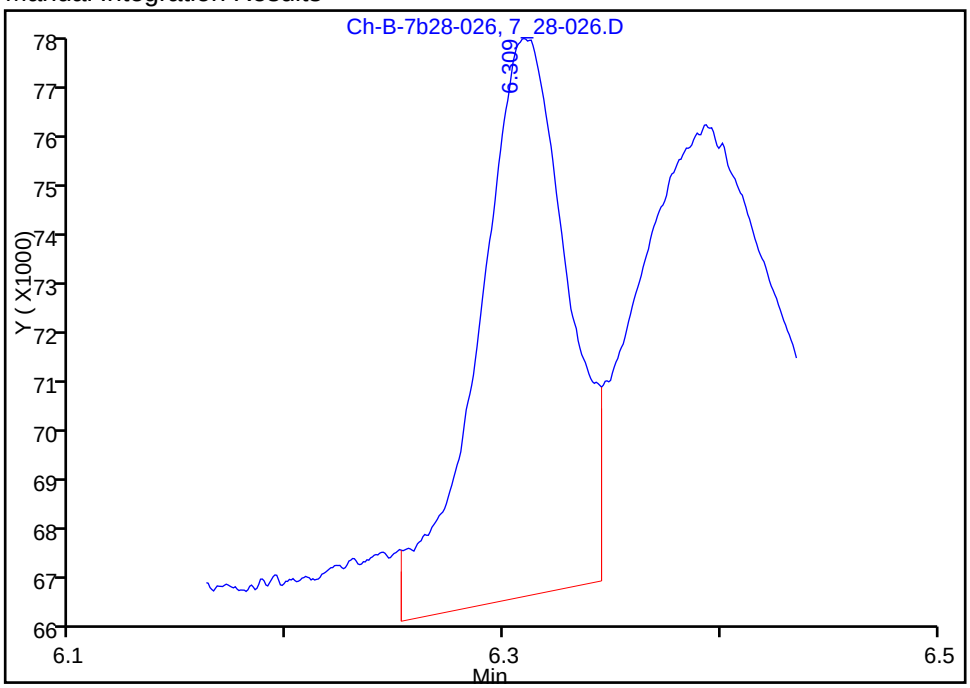
Processing Integration Results

RT: 6.31
Area: 21365
Amount: 0.000413
Amount Units: ng/uL



Manual Integration Results

RT: 6.31
Area: 31563
Amount: 0.000522
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:40:45
Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30042

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	0.0131	0.0076	0.0067			Lin1	0.0001	0.0068							0.9980		0.9900
PCB-1221 Peak 2	0.0177	0.0121	0.0108			Lin1	0.0001	0.0109							0.9980		0.9900
PCB-1221 Peak 3	0.0119	0.0075	0.0065			Lin1	0.0001	0.0066							0.9970		0.9900
PCB-1221 Peak 4	0.0392	0.0270	0.0241			Lin1	0.0003	0.0244							0.9980		0.9900
PCB-1254 Peak 1	0.0736	0.0524	0.0512			Lin1	0.0005	0.0510							1.0000		0.9900
PCB-1254 Peak 2	0.0477	0.0340	0.0336			Lin1	0.0003	0.0335							1.0000		0.9900
PCB-1254 Peak 3	0.0823	0.0618	0.0608			Lin1	0.0004	0.0607							1.0000		0.9900
PCB-1254 Peak 4	0.0829	0.0623	0.0618			Lin1	0.0004	0.0615							1.0000		0.9900
PCB-1254 Peak 5	0.0701	0.0525	0.0521			Lin1	0.0004	0.0519							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30042

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	7207	109077	382278			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	9757	173389	611505			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	6541	107292	367613			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	21621	386057	1369065			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	40540	749512	2903204			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	26297	486485	1907381			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Lin1	45353	884788	3451272			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Lin1	45692	891455	3503699			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	38628	751302	2953701			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 15:56:09 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:40 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:31:20

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14183474	0.5000	0.5000	
2	1.051	1.051	0.000	24751816	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.633	1.632	0.000	382278	2.00	1.96	a
1	2.229	2.230	-0.001	611505	2.00	1.96	a
1	2.307	2.307	0.000	367613	2.00	1.95	a
1	2.355	2.355	0.000	1369065	2.00	1.96	a
		Average of Peak Amounts =				1.96	
2	1.362	1.360	0.002	645413	2.00	1.94	a
2	1.865	1.863	0.002	1035449	2.00	1.96	a
2	1.963	1.963	0.000	628981	2.00	1.96	a
2	2.012	2.010	0.002	2021001	2.00	1.96	a
		Average of Peak Amounts =				1.95	
						RPD = 0.19	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	2903204	2.00	2.00	a
1	4.235	4.234	0.001	1907381	2.00	2.00	a
1	4.315	4.314	0.001	3451272	2.00	2.00	a
1	4.515	4.514	0.001	3503699	2.00	2.00	a
1	4.921	4.922	-0.001	2953701	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	3.523	3.522	0.001	3638829	2.00	2.00	
2	3.820	3.819	0.001	2685906	2.00	2.01	a
2	3.906	3.904	0.002	5834794	2.00	2.01	
2	4.040	4.040	0.000	5931372	2.00	2.01	
2	4.474	4.473	0.001	4993931	2.00	2.01	
		Average of Peak Amounts =				2.01	
						RPD = 0.42	

Reagents:

21-54w/IS@2.0_00006 Amount Added: 0.25 Units: mL

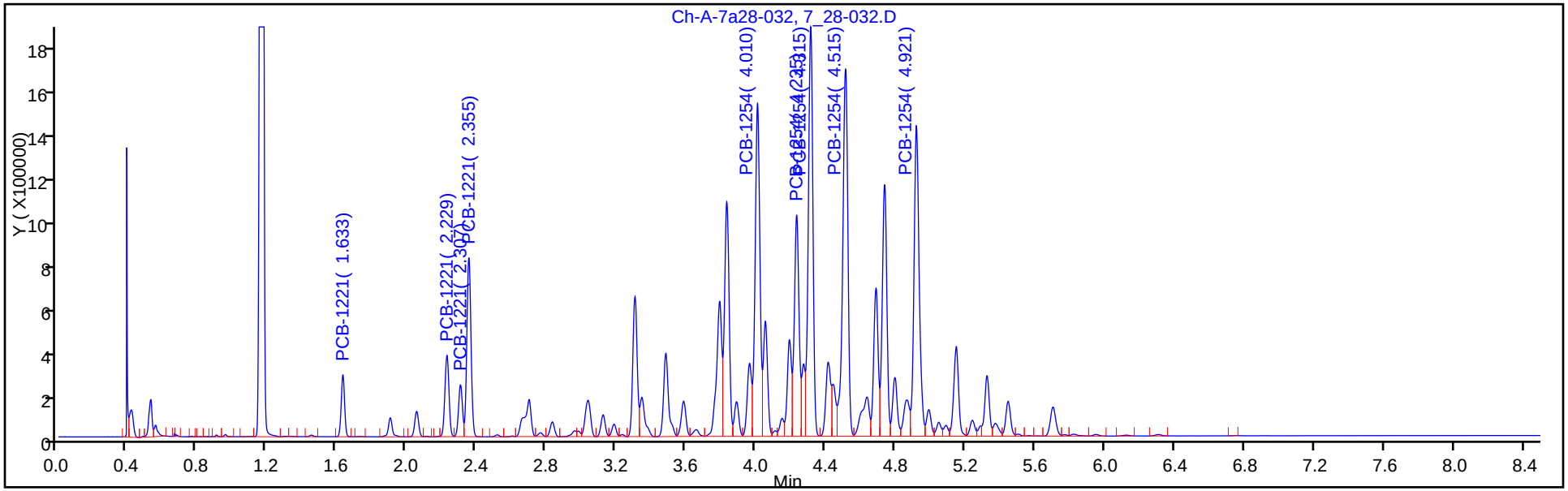
Report Date: 29-Mar-2017 10:54:40 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

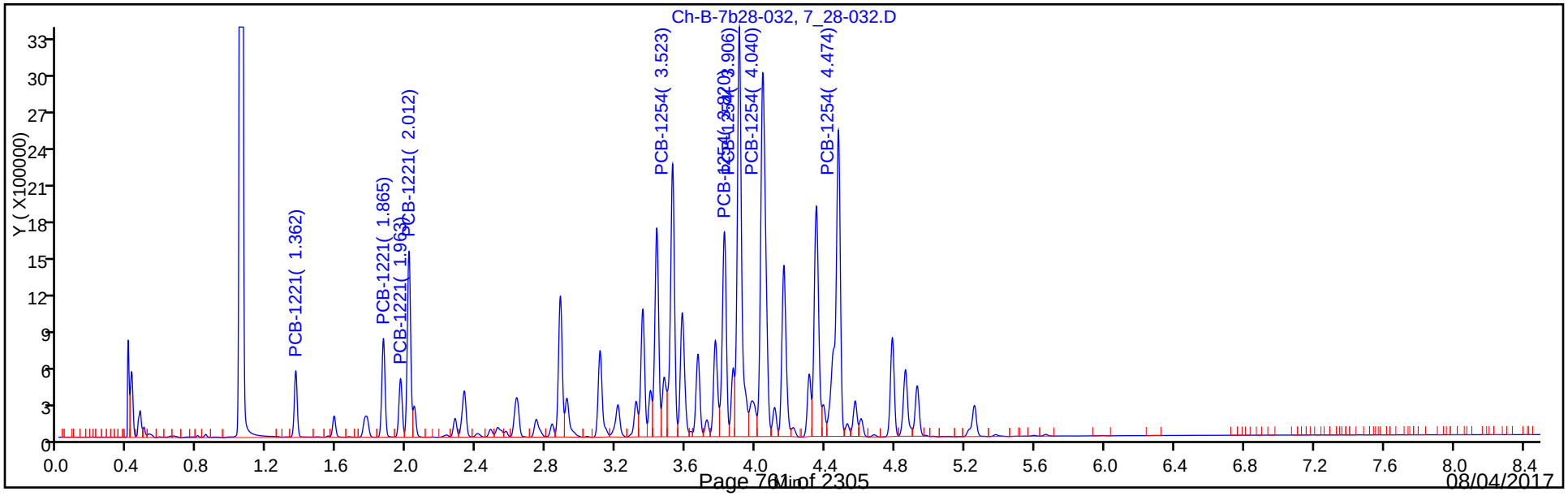
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D

Injection Date:	28-Mar-2017 15:56:09	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 16:12:05 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:40:52

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14308006	0.5000	0.5000	
2	1.050	1.051	-0.001	25593382	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	109077	0.5000	0.5405	M
1	2.229	2.230	-0.001	173389	0.5000	0.5411	
1	2.307	2.307	0.000	107292	0.5000	0.5516	
1	2.355	2.355	0.000	386057	0.5000	0.5389	
		Average of Peak Amounts =				0.5430	
2	1.361	1.360	0.001	201666	0.5000	0.5649	
2	1.864	1.863	0.001	301320	0.5000	0.5397	
2	1.963	1.963	0.000	183963	0.5000	0.5430	
2	2.011	2.010	0.001	585123	0.5000	0.5400	
		Average of Peak Amounts =				0.5469	
						RPD = 0.71	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	749512	0.5000	0.5041	
1	4.234	4.234	0.000	486485	0.5000	0.4995	
1	4.314	4.314	0.000	884788	0.5000	0.5023	
1	4.514	4.514	0.000	891455	0.5000	0.4994	
1	4.922	4.922	0.000	751302	0.5000	0.4992	
		Average of Peak Amounts =				0.5009	
2	3.523	3.522	0.000	952420	0.5000	0.5005	
2	3.820	3.819	0.001	690073	0.5000	0.4940	
2	3.905	3.904	0.001	1485783	0.5000	0.4911	
2	4.041	4.040	0.001	1504462	0.5000	0.4897	
2	4.474	4.473	0.001	1255166	0.5000	0.4856	
		Average of Peak Amounts =				0.4922	
						RPD = 1.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00008 Amount Added: 0.25 Units: mL

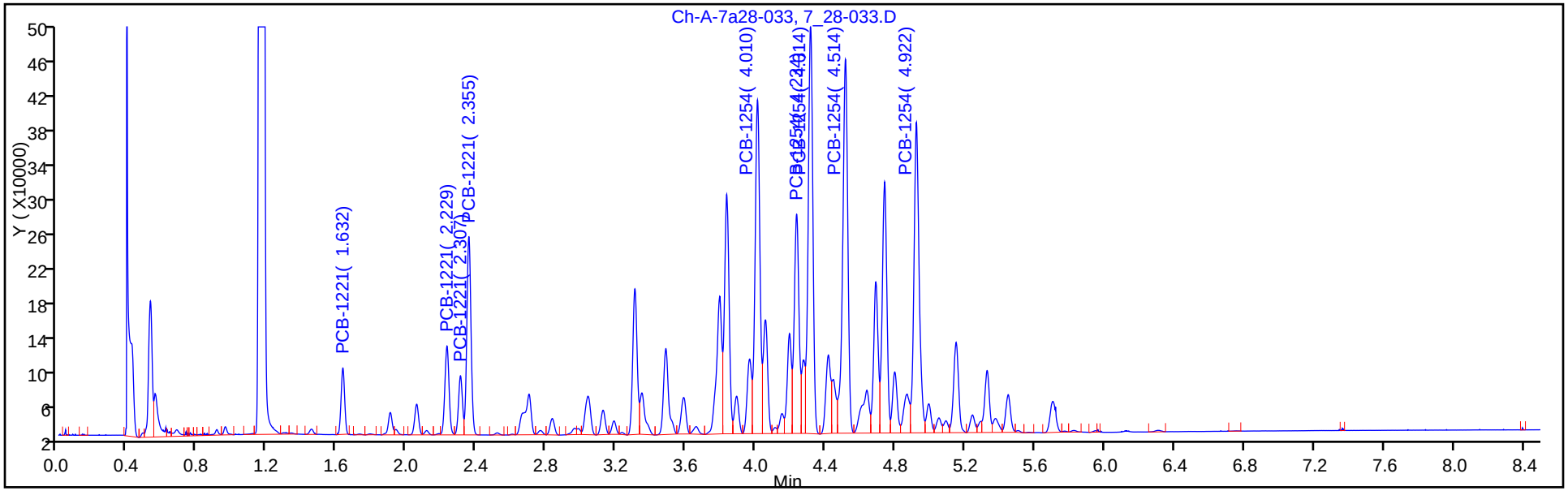
Report Date: 29-Mar-2017 10:54:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

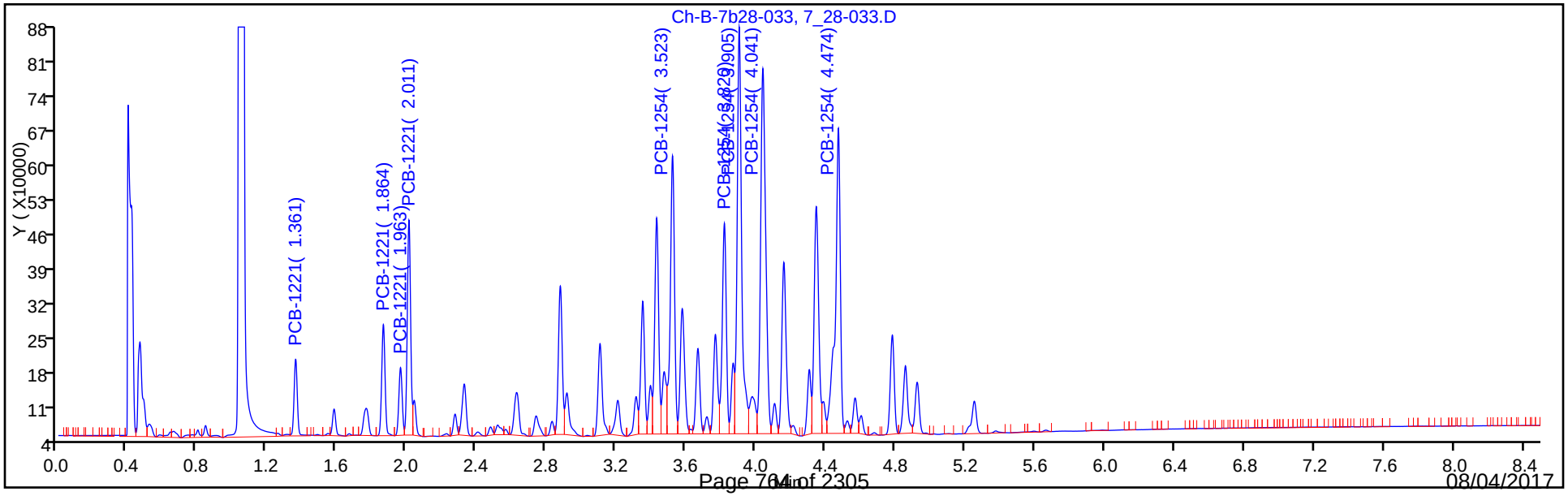
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D

Injection Date:	28-Mar-2017 16:12:05	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:54:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D

Injection Date: 28-Mar-2017 16:12:05 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

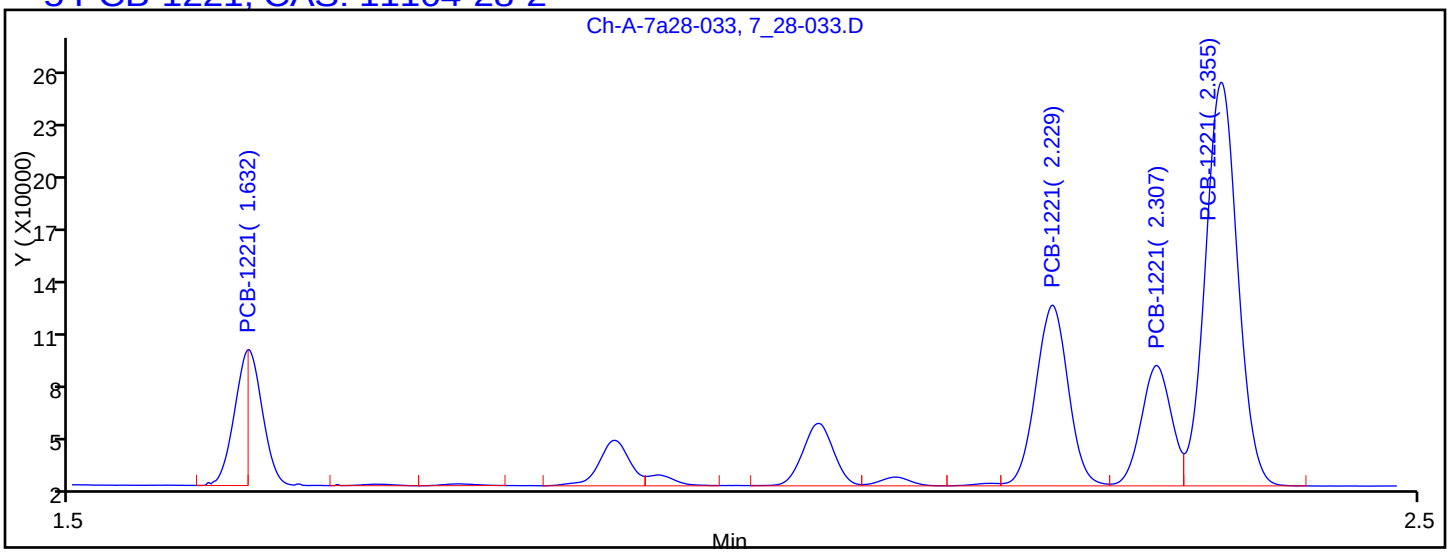
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

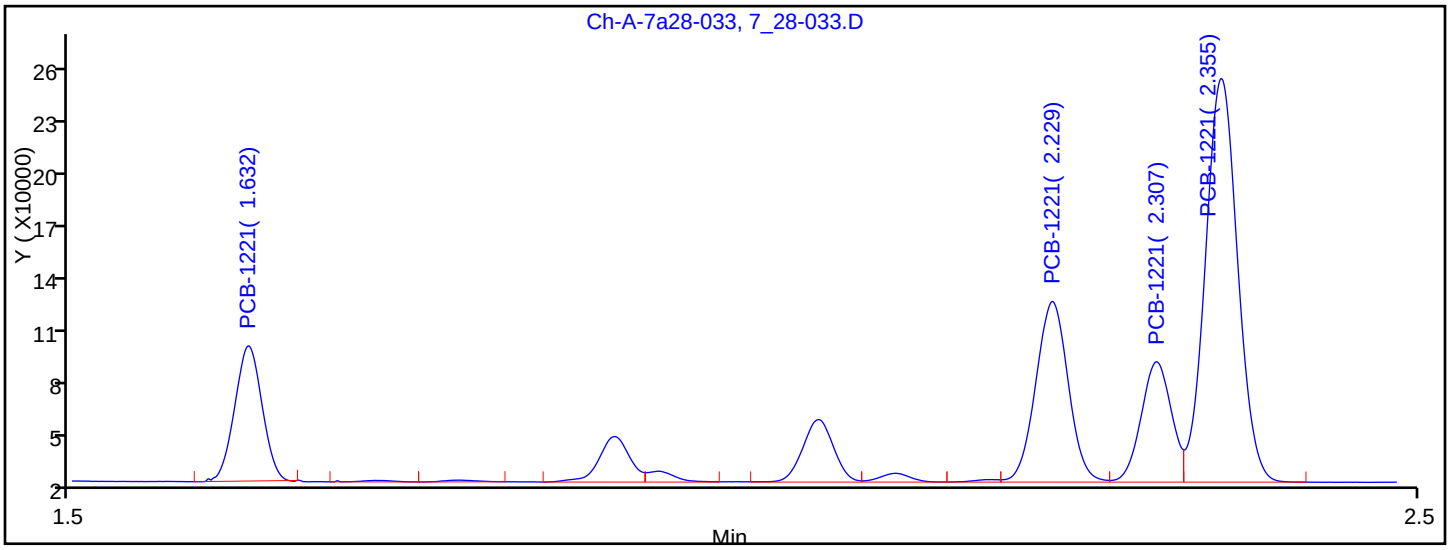
Column: Detector Ch-A-7A136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.632	Response = 53702
2.229	Response = 173389
2.307	Response = 107292
2.355	Response = 386057



Manual Integration Results

1.632	Response = 109077	M
2.229	Response = 173389	
2.307	Response = 107292	
2.355	Response = 386057	

Reviewer: owenj, 28-Mar-2017 16:34:08

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 16:28:08 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:52:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.167	1.167	0.000	13775491	0.5000	0.5000	M
2	1.048	1.048	0.000	25230848	0.5000	0.5000	M
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	7207	0.0200	0.0188	M
1	2.230	2.230	0.000	9757	0.0200	0.0188	M
1	2.307	2.307	0.000	6541	0.0200	0.0184	
1	2.355	2.355	0.000	21621	0.0200	0.0188	
		Average of Peak Amounts =				0.0187	
2	1.360	1.360	0.000	15870	0.0200	0.0180	M
2	1.863	1.863	0.000	19169	0.0200	0.0188	M
2	1.963	1.963	0.000	11012	0.0200	0.0187	M
2	2.010	2.010	0.000	32777	0.0200	0.0188	M
		Average of Peak Amounts =				0.0186	
						RPD = 0.63	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							M
1	4.011	4.011	0.000	40540	0.0200	0.0199	M
1	4.234	4.234	0.000	26297	0.0200	0.0200	M
1	4.314	4.314	0.000	45353	0.0200	0.0199	M
1	4.514	4.514	0.000	45692	0.0200	0.0200	M
1	4.922	4.922	0.000	38628	0.0200	0.0200	M
		Average of Peak Amounts =				0.0200	
2	3.522	3.522	0.000	50766	0.0200	0.0200	
2	3.819	3.819	0.000	35490	0.0200	0.0202	
2	3.904	3.904	0.000	74054	0.0200	0.0203	
2	4.040	4.040	0.000	74452	0.0200	0.0203	
2	4.473	4.473	0.000	64659	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 1.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00005 Amount Added: 0.25 Units: mL

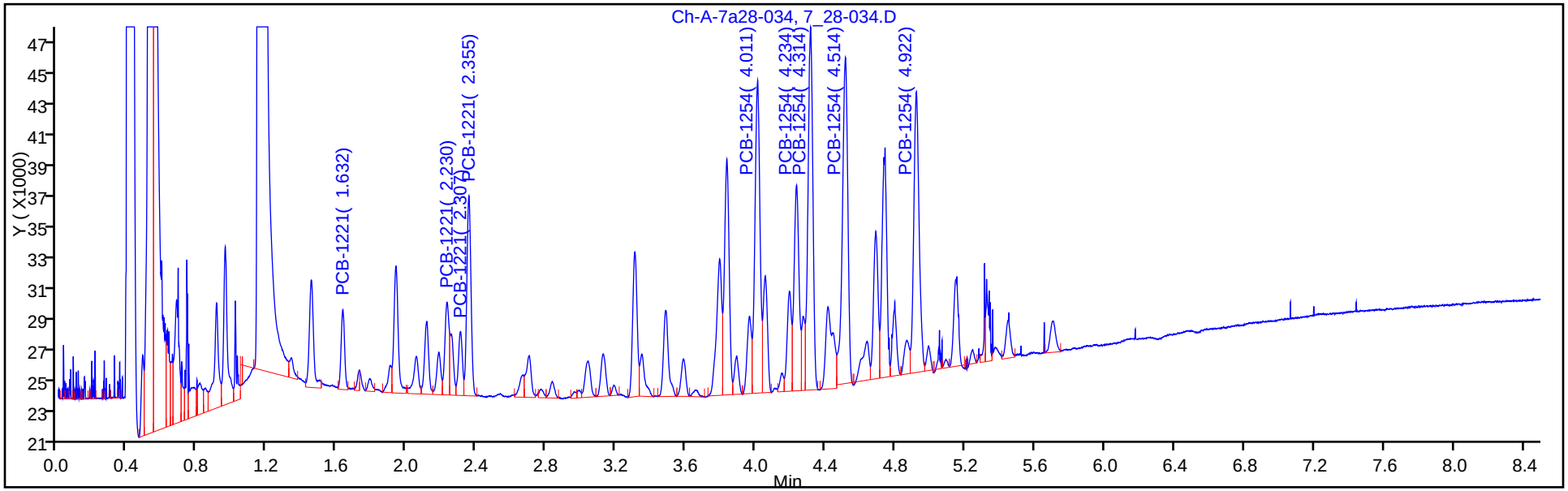
Report Date: 29-Mar-2017 10:54:48 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

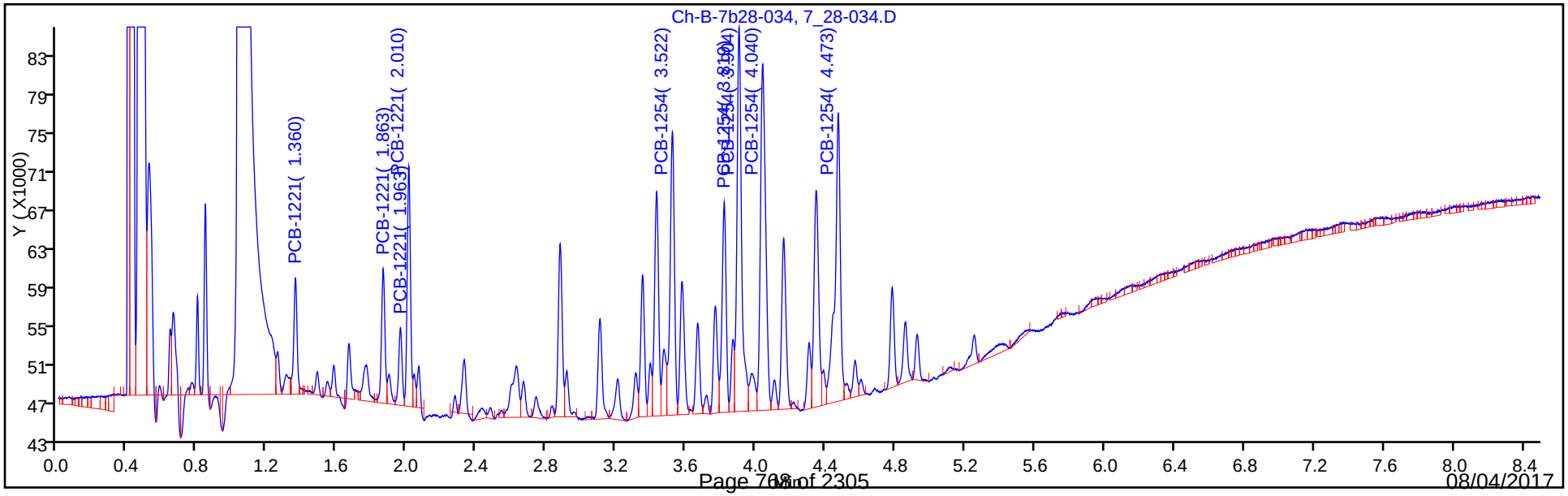
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date:	28-Mar-2017 16:28:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

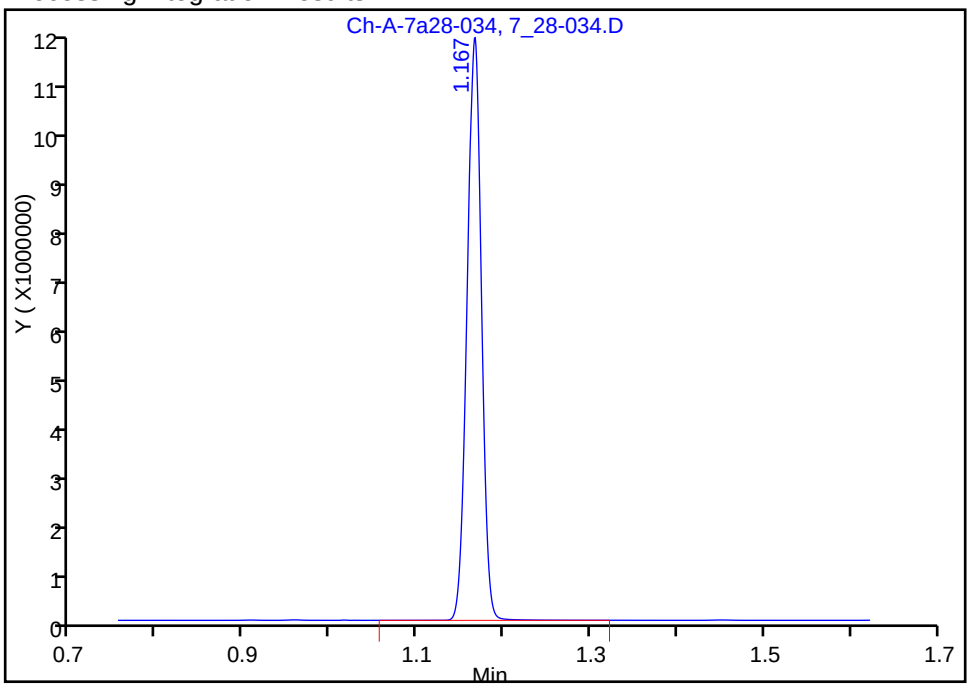
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

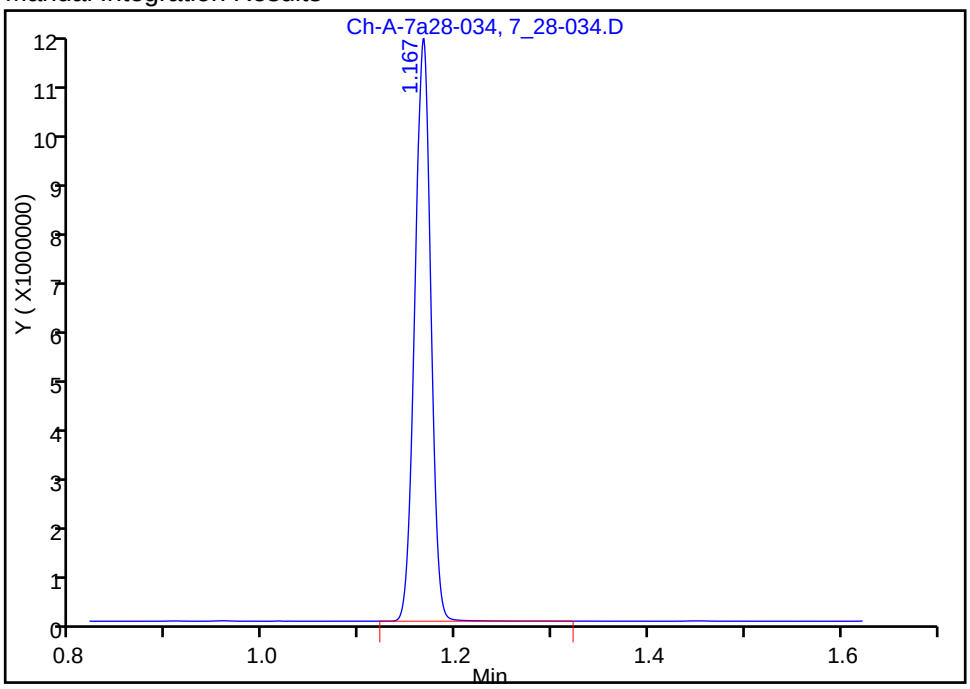
Processing Integration Results

RT: 1.17
Area: 13791629
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.17
Area: 13775491
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 16:45:32
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

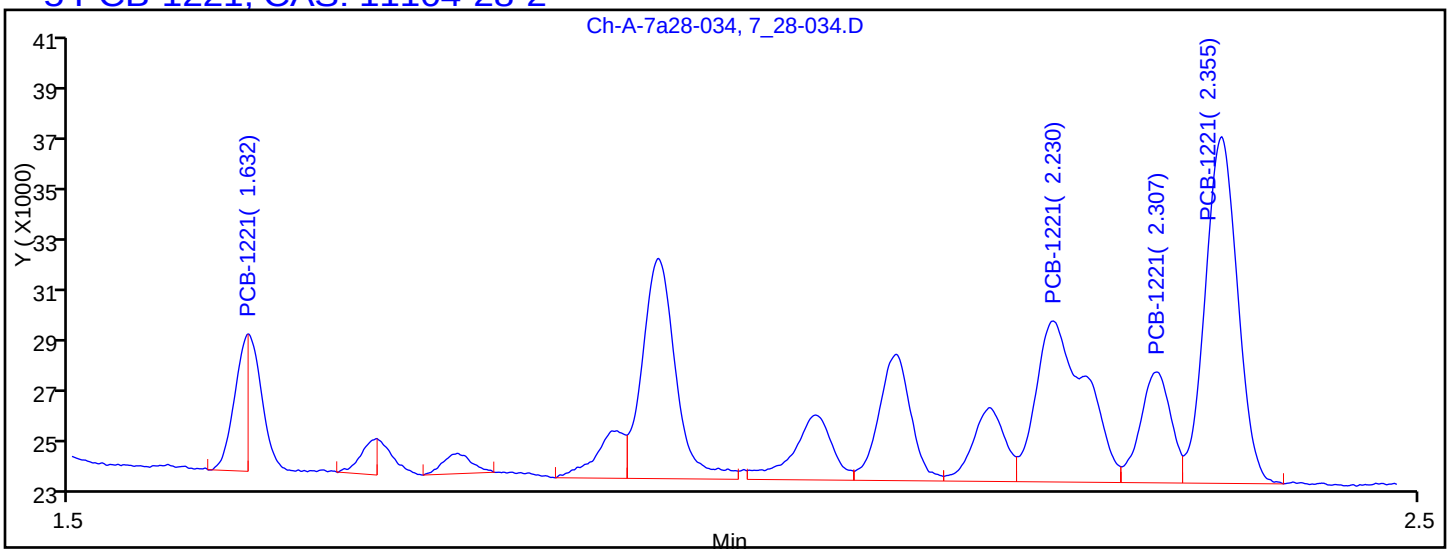
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

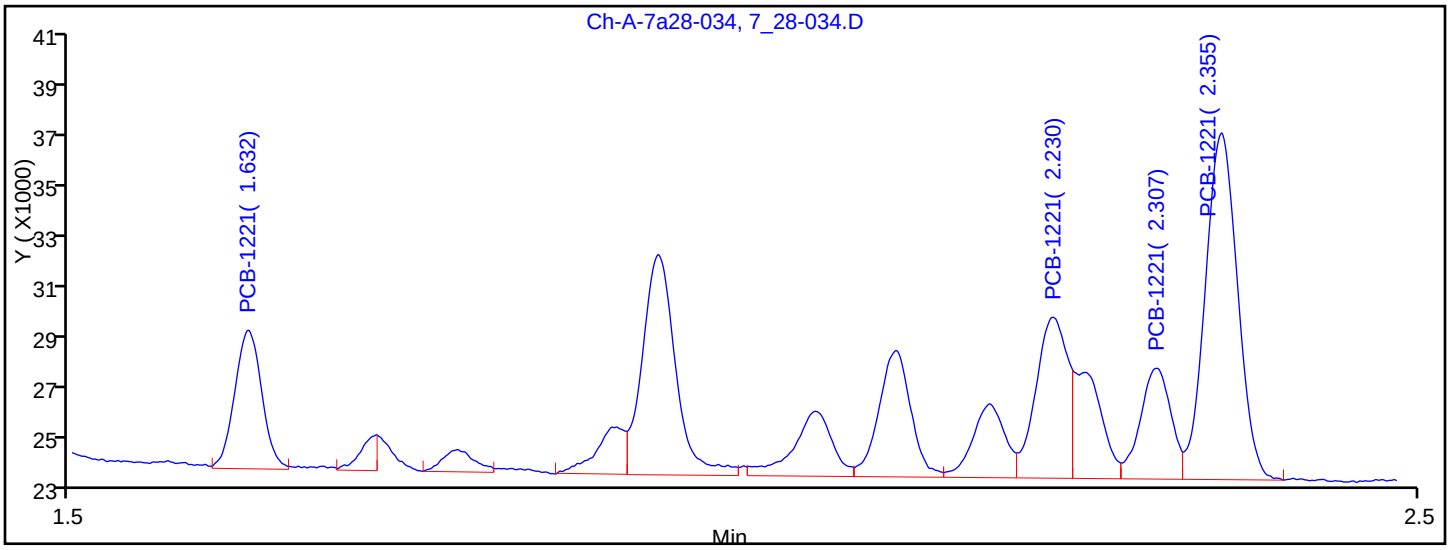
Column: Detector Ch-A-7A136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.632	Response = 3418
2.230	Response = 15493
2.307	Response = 6541
2.355	Response = 21621



Manual Integration Results

1.632	Response = 7207	M
2.230	Response = 9757	M
2.307	Response = 6541	
2.355	Response = 21621	

Reviewer: owenj, 28-Mar-2017 16:44:10

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

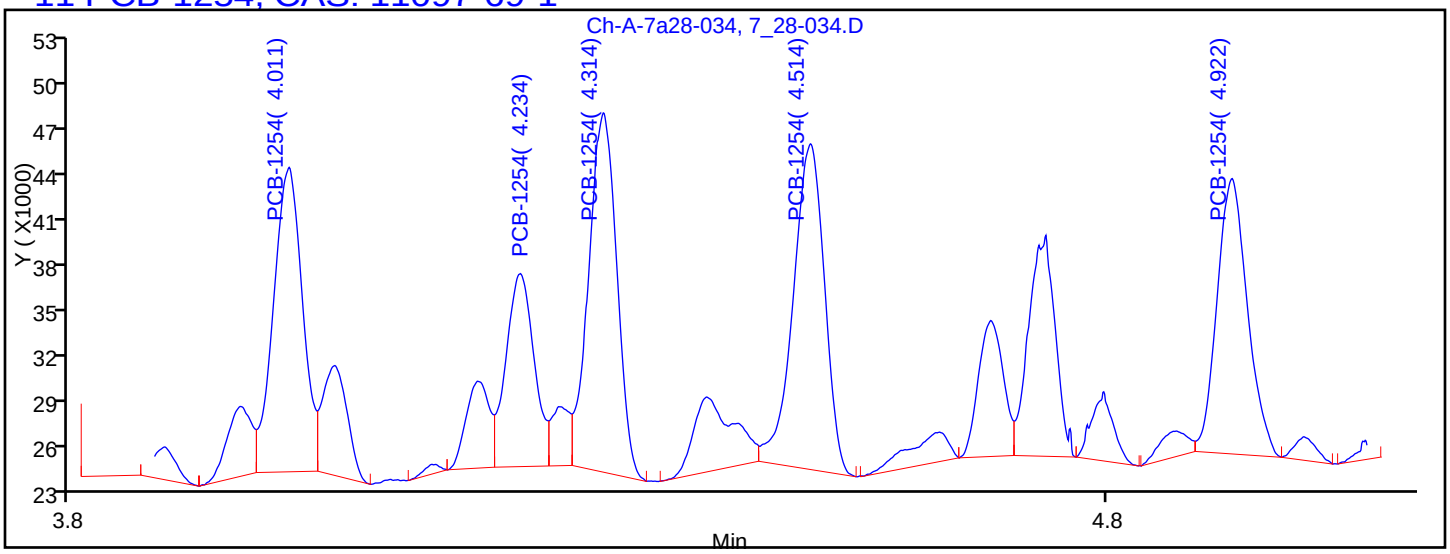
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

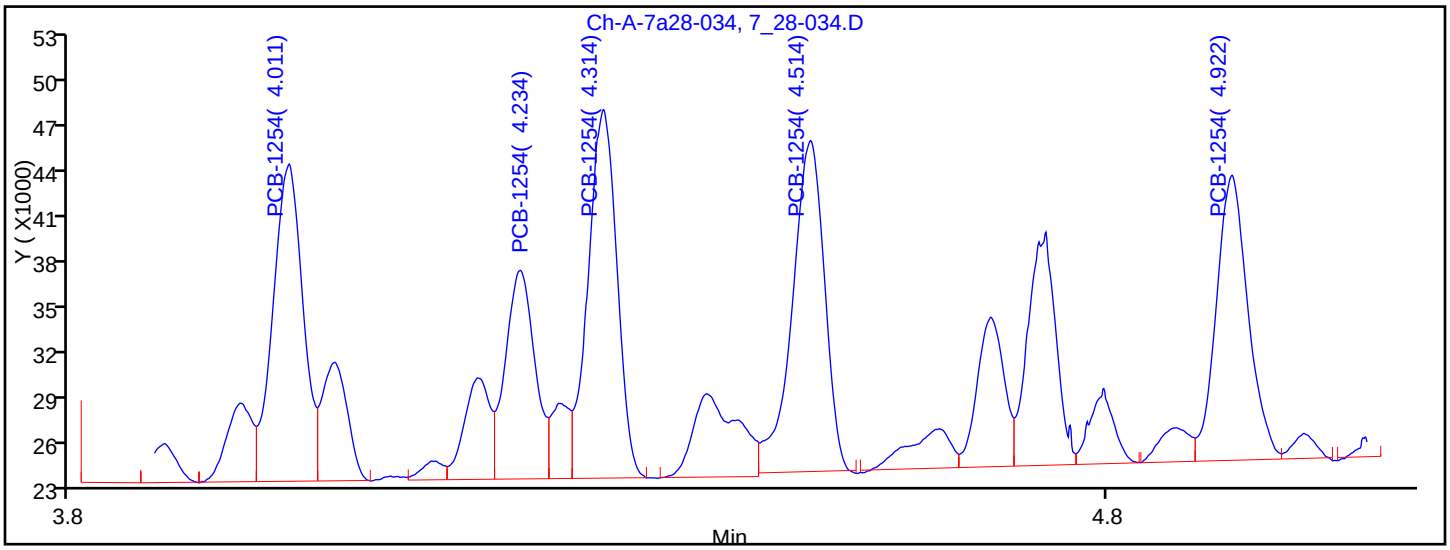
Column: Detector Ch-A-7A136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

4.011	Response = 37674
4.234	Response = 23171
4.314	Response = 43201
4.514	Response = 43582
4.922	Response = 35756



Manual Integration Results

4.011	Response = 40540	M
4.234	Response = 26297	M
4.314	Response = 45353	M
4.514	Response = 45692	M
4.922	Response = 38628	M

Reviewer: owenj, 28-Mar-2017 16:44:01

Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	0.0157	0.0079	0.0065			Lin1	0.0002	0.0066							0.9960		0.9900
PCB-1221 Peak 2	0.0190	0.0118	0.0105			Lin1	0.0002	0.0106							0.9980		0.9900
PCB-1221 Peak 3	0.0109	0.0072	0.0064			Lin1	0.0001	0.0064							0.9980		0.9900
PCB-1221 Peak 4	0.0325	0.0229	0.0204			Lin1	0.0003	0.0207							0.9980		0.9900
PCB-1254 Peak 1	0.0503	0.0372	0.0368			Lin1	0.0003	0.0366							1.0000		0.9900
PCB-1254 Peak 2	0.0352	0.0270	0.0271			Lin1	0.0002	0.0270							1.0000		0.9900
PCB-1254 Peak 3	0.0734	0.0581	0.0589			Lin1	0.0003	0.0585							1.0000		0.9900
PCB-1254 Peak 4	0.0738	0.0588	0.0599			Lin1	0.0003	0.0595							1.0000		0.9900
PCB-1254 Peak 5	0.0641	0.0490	0.0504			Lin1	0.0003	0.0500							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	15870	201666	645413			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	19169	301320	1035449			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	11012	183963	628981			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	32777	585123	2021001			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	50766	952420	3638829			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	35490	690073	2685906			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Lin1	74054	1485783	5834794			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Lin1	74452	1504462	5931372			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	64659	1255166	4993931			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 15:56:09 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:40 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:31:20

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14183474	0.5000	0.5000	
2	1.051	1.051	0.000	24751816	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.633	1.632	0.000	382278	2.00	1.96	a
1	2.229	2.230	-0.001	611505	2.00	1.96	a
1	2.307	2.307	0.000	367613	2.00	1.95	a
1	2.355	2.355	0.000	1369065	2.00	1.96	a
		Average of Peak Amounts =				1.96	
2	1.362	1.360	0.002	645413	2.00	1.94	a
2	1.865	1.863	0.002	1035449	2.00	1.96	a
2	1.963	1.963	0.000	628981	2.00	1.96	a
2	2.012	2.010	0.002	2021001	2.00	1.96	a
		Average of Peak Amounts =				1.95	
						RPD = 0.19	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	2903204	2.00	2.00	a
1	4.235	4.234	0.001	1907381	2.00	2.00	a
1	4.315	4.314	0.001	3451272	2.00	2.00	a
1	4.515	4.514	0.001	3503699	2.00	2.00	a
1	4.921	4.922	-0.001	2953701	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	3.523	3.522	0.001	3638829	2.00	2.00	
2	3.820	3.819	0.001	2685906	2.00	2.01	a
2	3.906	3.904	0.002	5834794	2.00	2.01	
2	4.040	4.040	0.000	5931372	2.00	2.01	
2	4.474	4.473	0.001	4993931	2.00	2.01	
		Average of Peak Amounts =				2.01	
						RPD = 0.42	

Reagents:

21-54w/IS@2.0_00006 Amount Added: 0.25 Units: mL

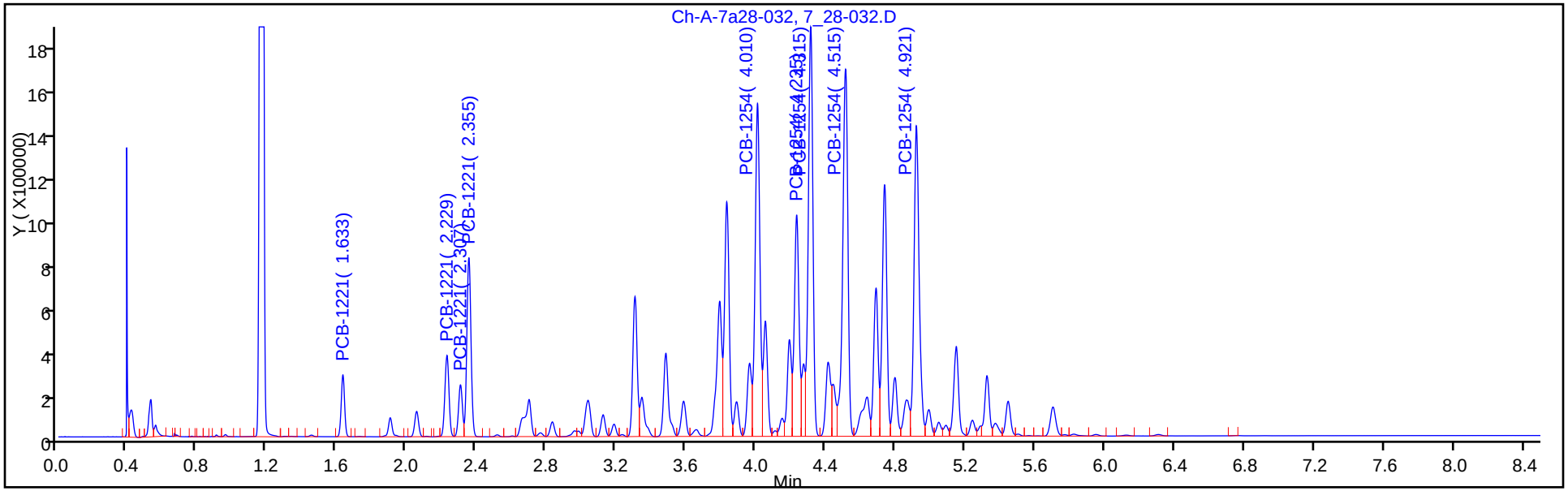
Report Date: 29-Mar-2017 10:54:41 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

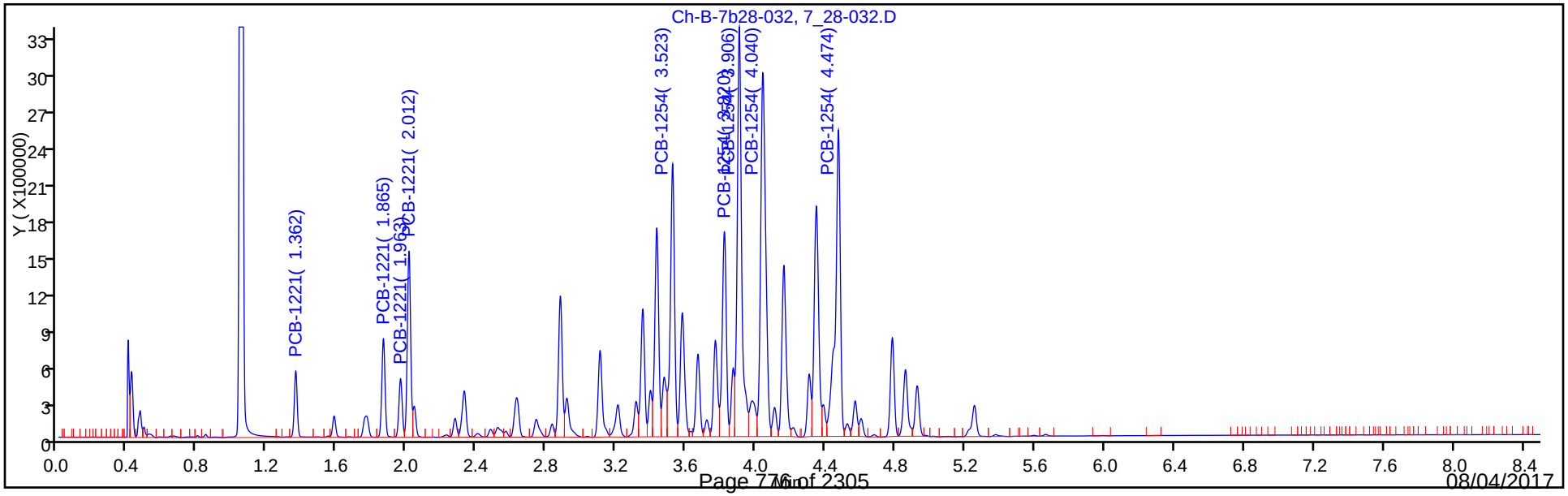
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D

Injection Date:	28-Mar-2017 15:56:09	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 16:12:05 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:40:52

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14308006	0.5000	0.5000	
2	1.050	1.051	-0.001	25593382	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	109077	0.5000	0.5405	M
1	2.229	2.230	-0.001	173389	0.5000	0.5411	
1	2.307	2.307	0.000	107292	0.5000	0.5516	
1	2.355	2.355	0.000	386057	0.5000	0.5389	
		Average of Peak Amounts =				0.5430	
2	1.361	1.360	0.001	201666	0.5000	0.5649	
2	1.864	1.863	0.001	301320	0.5000	0.5397	
2	1.963	1.963	0.000	183963	0.5000	0.5430	
2	2.011	2.010	0.001	585123	0.5000	0.5400	
		Average of Peak Amounts =				0.5469	
						RPD = 0.71	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	749512	0.5000	0.5041	
1	4.234	4.234	0.000	486485	0.5000	0.4995	
1	4.314	4.314	0.000	884788	0.5000	0.5023	
1	4.514	4.514	0.000	891455	0.5000	0.4994	
1	4.922	4.922	0.000	751302	0.5000	0.4992	
		Average of Peak Amounts =				0.5009	
2	3.523	3.522	0.000	952420	0.5000	0.5005	
2	3.820	3.819	0.001	690073	0.5000	0.4940	
2	3.905	3.904	0.001	1485783	0.5000	0.4911	
2	4.041	4.040	0.001	1504462	0.5000	0.4897	
2	4.474	4.473	0.001	1255166	0.5000	0.4856	
		Average of Peak Amounts =				0.4922	
						RPD = 1.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00008 Amount Added: 0.25 Units: mL

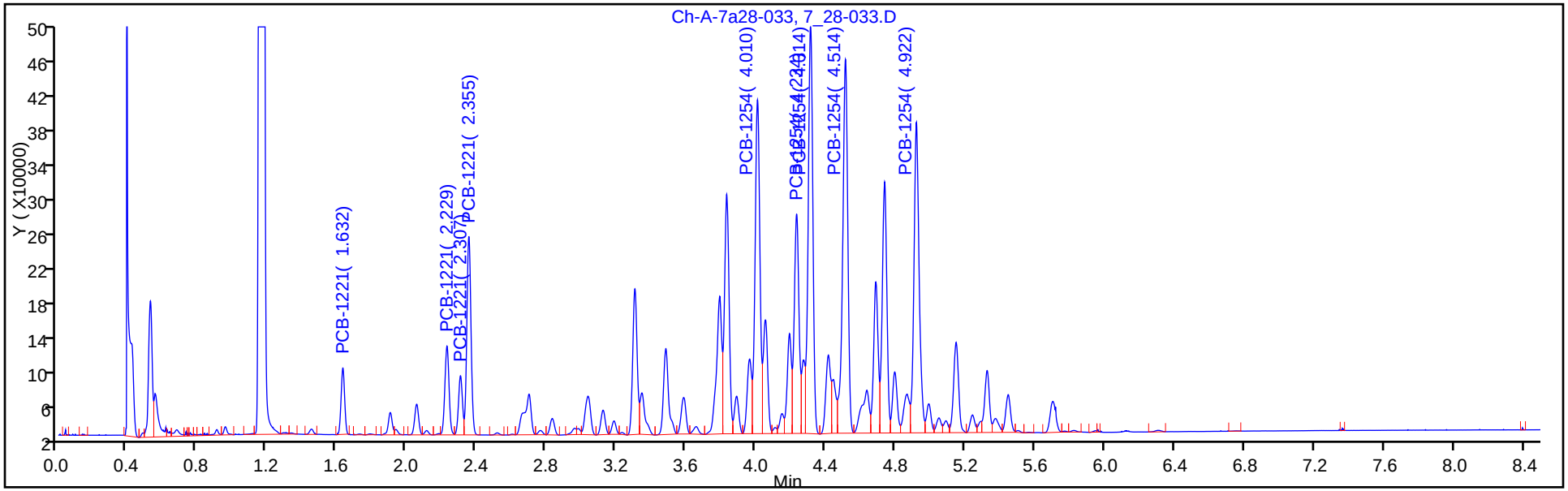
Report Date: 29-Mar-2017 10:54:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

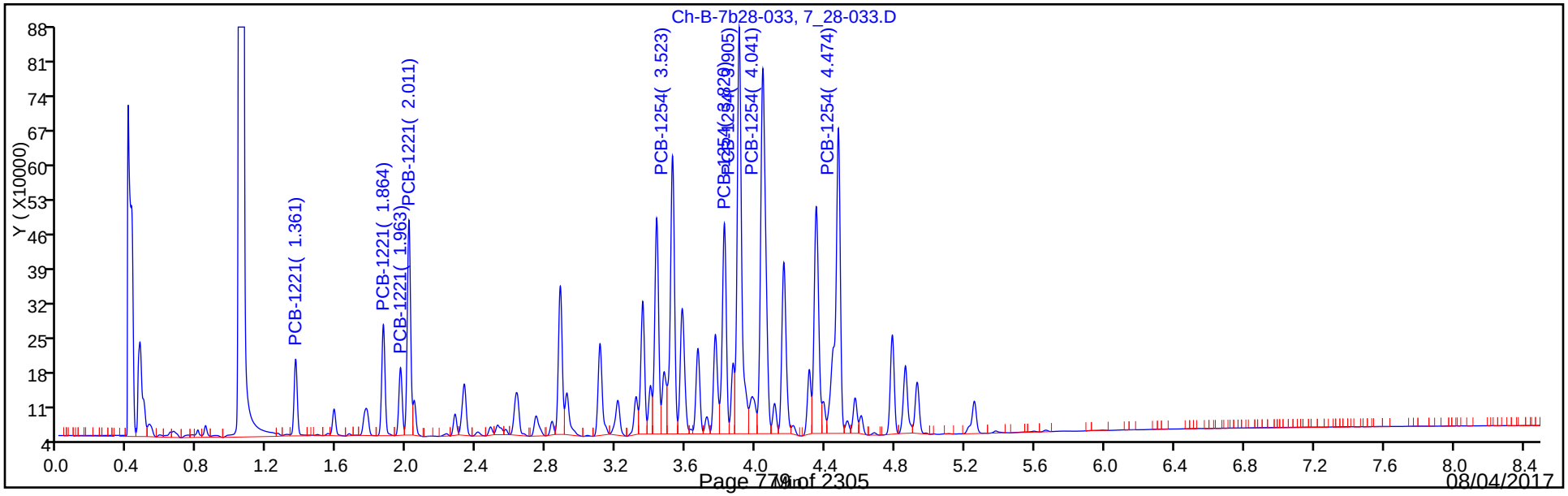
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D

Injection Date:	28-Mar-2017 16:12:05	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 16:28:08 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:52:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.167	1.167	0.000	13775491	0.5000	0.5000	M
2	1.048	1.048	0.000	25230848	0.5000	0.5000	M
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	7207	0.0200	0.0188	M
1	2.230	2.230	0.000	9757	0.0200	0.0188	M
1	2.307	2.307	0.000	6541	0.0200	0.0184	
1	2.355	2.355	0.000	21621	0.0200	0.0188	
		Average of Peak Amounts =				0.0187	
2	1.360	1.360	0.000	15870	0.0200	0.0180	M
2	1.863	1.863	0.000	19169	0.0200	0.0188	M
2	1.963	1.963	0.000	11012	0.0200	0.0187	M
2	2.010	2.010	0.000	32777	0.0200	0.0188	M
		Average of Peak Amounts =				0.0186	
						RPD = 0.63	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							M
1	4.011	4.011	0.000	40540	0.0200	0.0199	M
1	4.234	4.234	0.000	26297	0.0200	0.0200	M
1	4.314	4.314	0.000	45353	0.0200	0.0199	M
1	4.514	4.514	0.000	45692	0.0200	0.0200	M
1	4.922	4.922	0.000	38628	0.0200	0.0200	M
		Average of Peak Amounts =				0.0200	
2	3.522	3.522	0.000	50766	0.0200	0.0200	
2	3.819	3.819	0.000	35490	0.0200	0.0202	
2	3.904	3.904	0.000	74054	0.0200	0.0203	
2	4.040	4.040	0.000	74452	0.0200	0.0203	
2	4.473	4.473	0.000	64659	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 1.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00005 Amount Added: 0.25 Units: mL

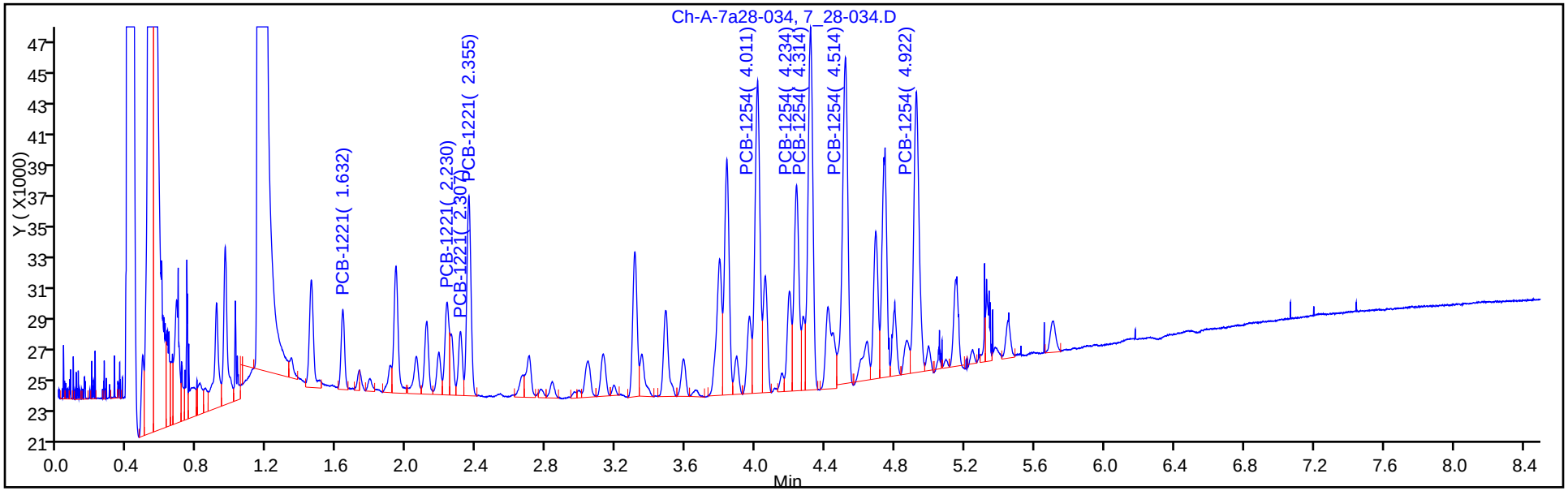
Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

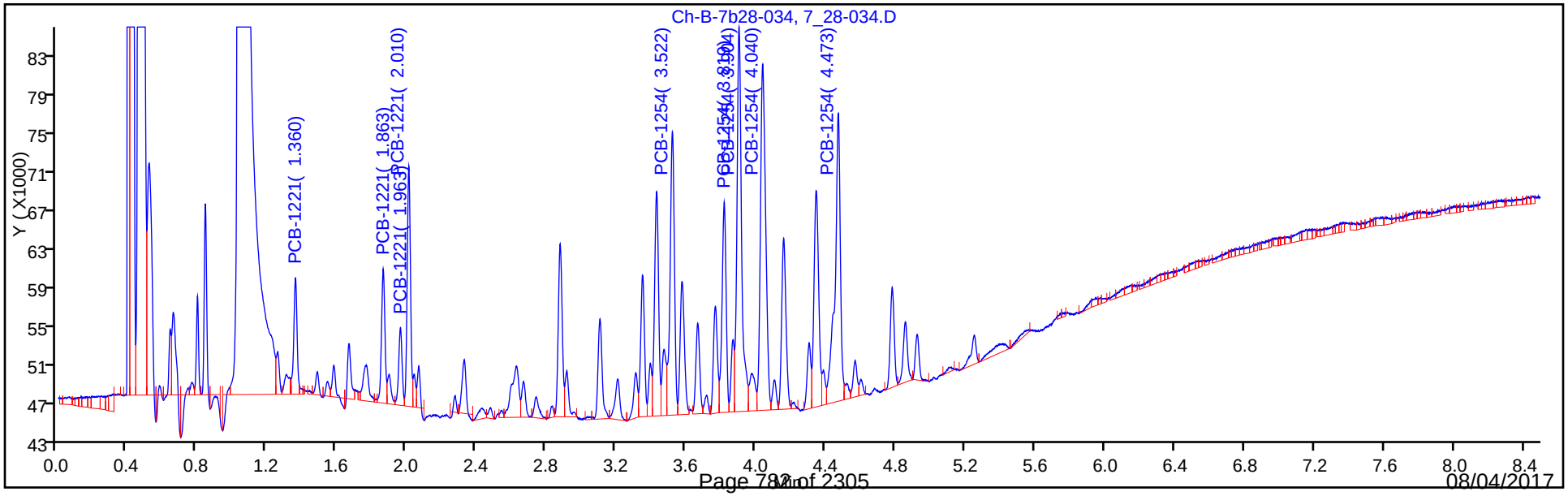
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date:	28-Mar-2017 16:28:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

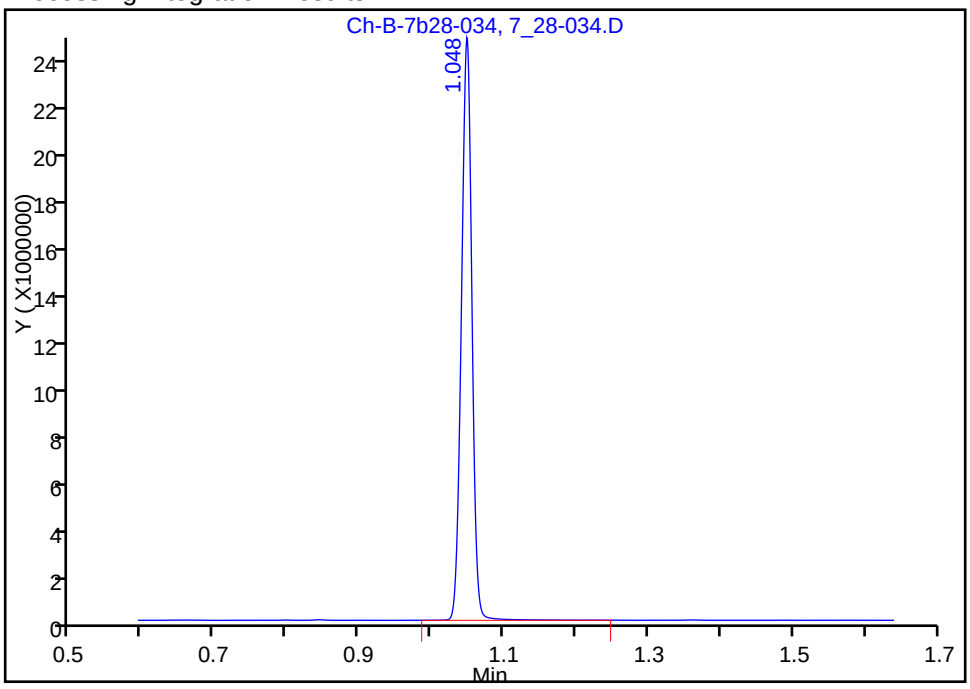
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

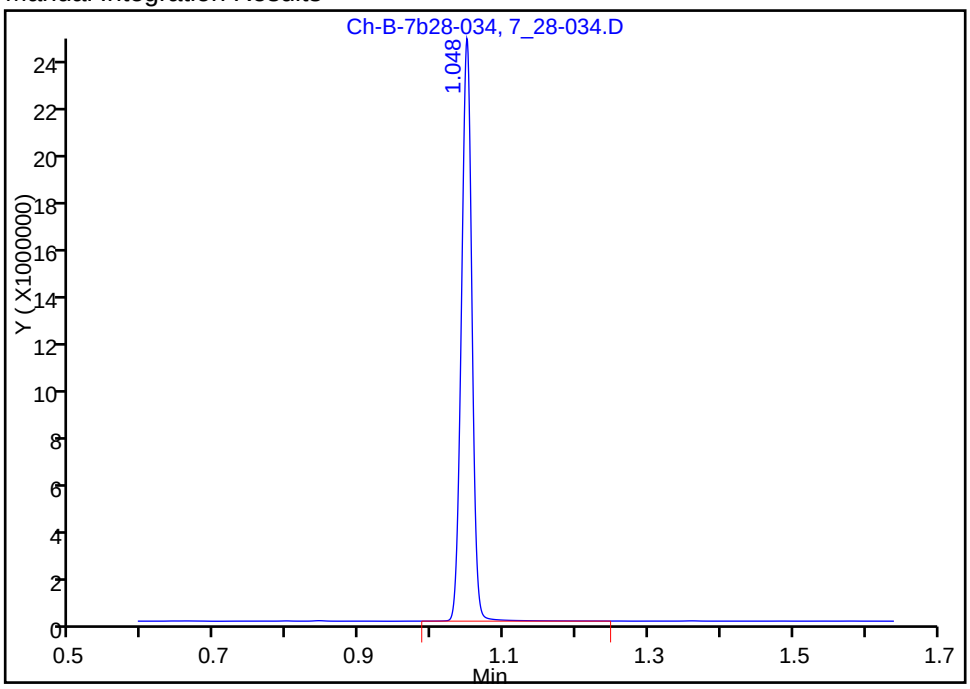
Processing Integration Results

RT: 1.05
Area: 25271636
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.05
Area: 25230848
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 16:45:15
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

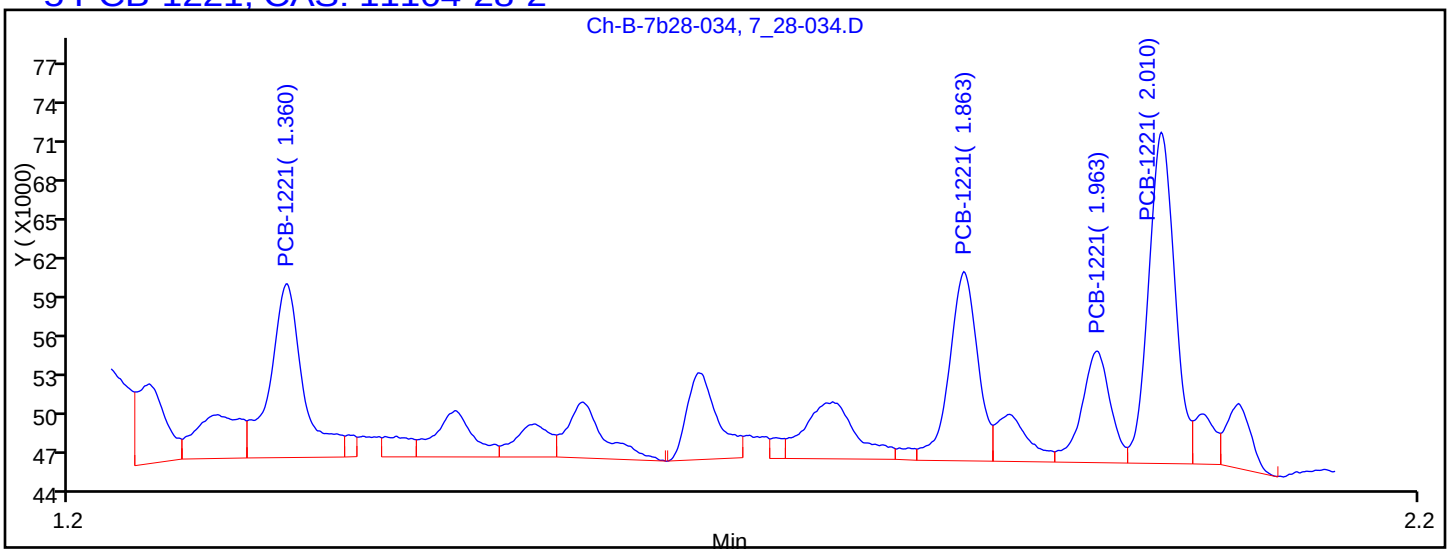
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

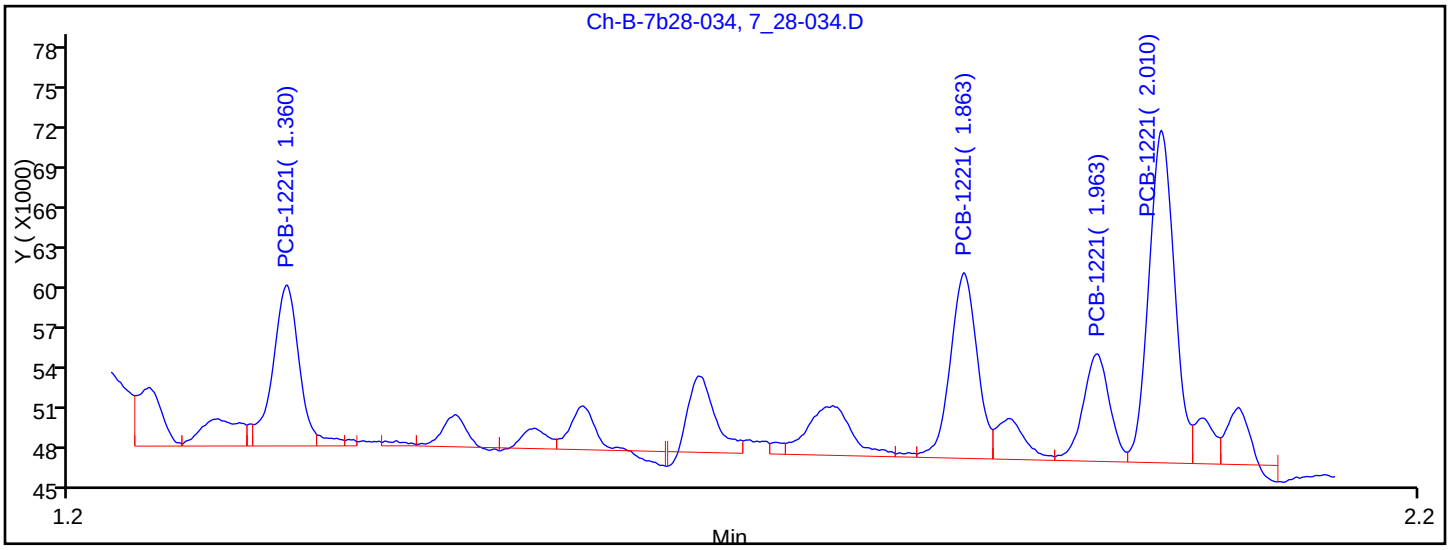
Column: Detector Ch-B-7b136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.360	Response = 22341
1.863	Response = 21104
1.963	Response = 12569
2.010	Response = 34031



Manual Integration Results

1.360	Response = 15870	M
1.863	Response = 19169	M
1.963	Response = 11012	M
2.010	Response = 32777	M

Reviewer: owenj, 28-Mar-2017 16:45:15

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

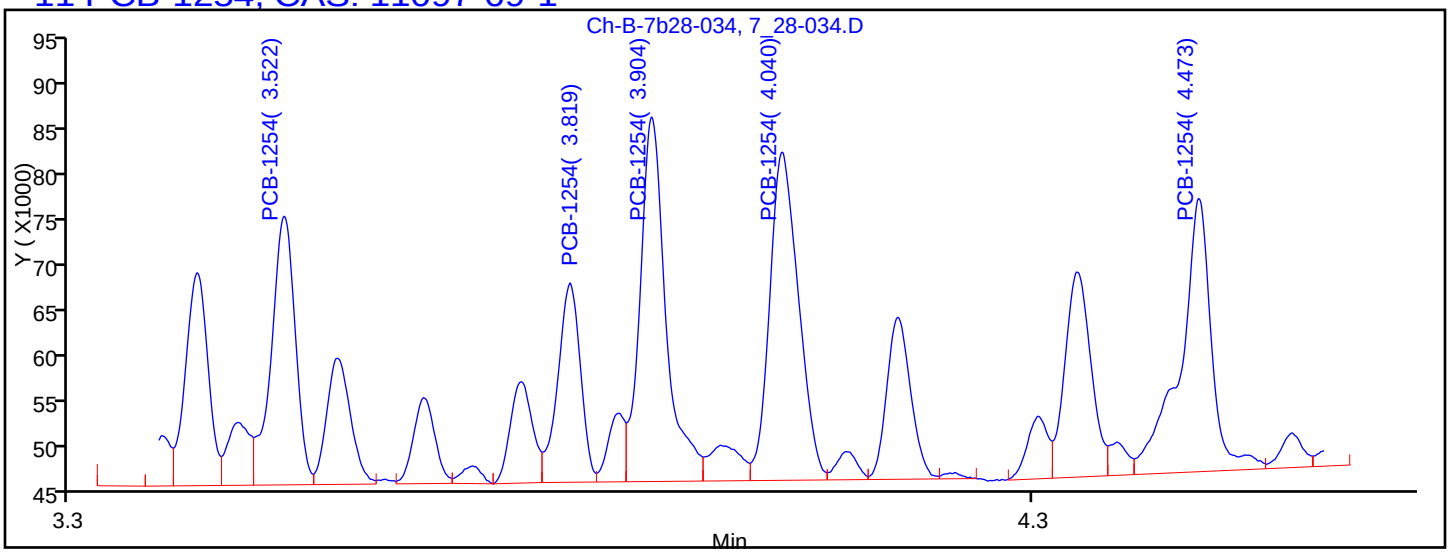
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

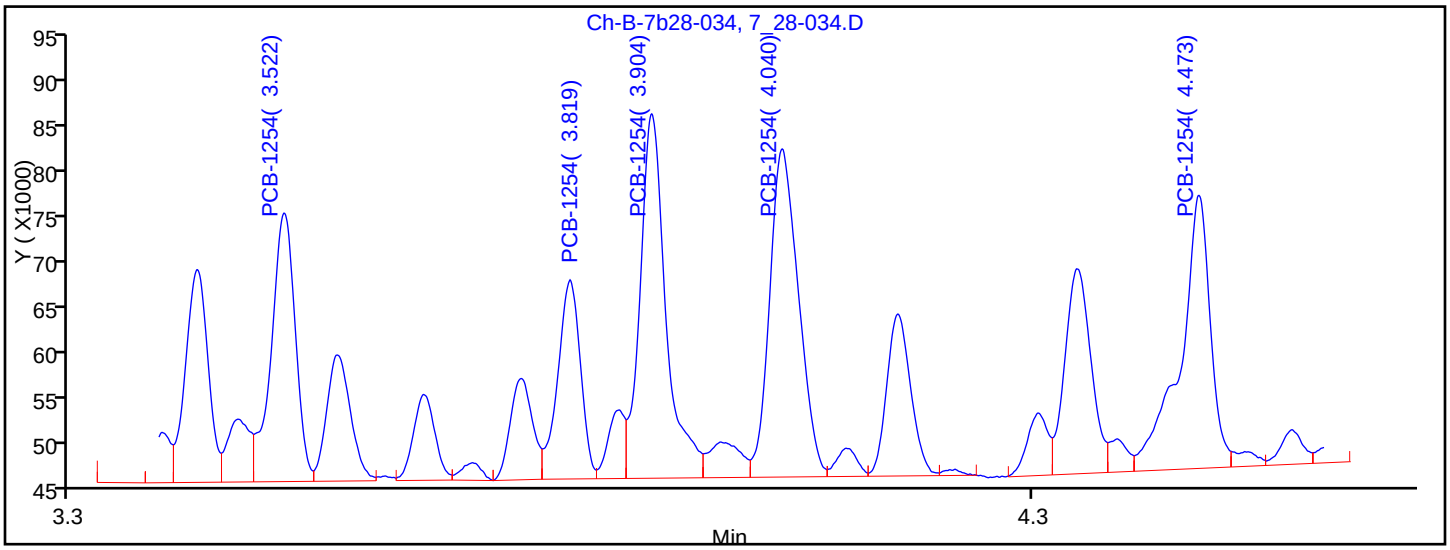
Column: Detector Ch-B-7b136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

3.522	Response = 50766
3.819	Response = 35490
3.904	Response = 74054
4.040	Response = 74452
4.473	Response = 67437



Manual Integration Results

3.522	Response = 50766	
3.819	Response = 35490	
3.904	Response = 74054	
4.040	Response = 74452	
4.473	Response = 64659	M

Reviewer: owenj, 28-Mar-2017 16:44:16

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30048

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	0.0313	0.0235	0.0208			Lin1	0.0002	0.0211							0.9980		0.9900
PCB-1232 Peak 2	0.0174	0.0122	0.0109			Lin1	0.0001	0.0110							0.9980		0.9900
PCB-1232 Peak 3	0.0519	0.0397	0.0379			Lin1	0.0003	0.0380							1.0000		0.9900
PCB-1232 Peak 4	0.0261	0.0153	0.0142			Lin1	0.0002	0.0143							1.0000		0.9900
PCB-1232 Peak 5	0.0139	0.0105	0.0099			Lin1	0.0001	0.0099							1.0000		0.9900
PCB-1262 Peak 1	0.0688	0.0534	0.0530			Lin1	0.0003	0.0528							1.0000		0.9900
PCB-1262 Peak 2	0.0544	0.0413	0.0412			Lin1	0.0003	0.0410							1.0000		0.9900
PCB-1262 Peak 3	0.1197	0.0971	0.0977			Lin1	0.0004	0.0973							1.0000		0.9900
PCB-1262 Peak 4	0.0434	0.0315	0.0310			Lin1	0.0003	0.0309							1.0000		0.9900
PCB-1262 Peak 5	0.0520	0.0386	0.0387			Lin1	0.0003	0.0385							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30048

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	17402	334911	1168343			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	9674	173804	610530			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	28820	565414	2131860			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	14529	218513	800272			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	7700	149292	555432			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Lin1	38246	760515	2976769			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	30264	588139	2314069			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Lin1	66533	1384220	5491646			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Lin1	24137	448320	1743461			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Lin1	28917	550434	2172970			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 16:59:49 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:32:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14046745	0.5000	0.5000	
2	1.050	1.048	0.002	25289938	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.354	2.355	-0.001	1168343	2.00	1.96	
1	2.833	2.834	-0.002	610530	2.00	1.96	
1	3.039	3.039	0.000	2131860	2.00	1.99	
1	3.124	3.126	-0.002	800272	2.00	1.98	
1	3.187	3.187	0.000	555432	2.00	1.98	
		Average of Peak Amounts =				1.97	
2	2.012	2.011	0.001	1750185	2.00	1.95	M
2	2.323	2.322	0.000	1769313	2.00	1.96	a
2	2.630	2.628	0.002	3407079	2.00	1.98	a
2	2.740	2.739	0.001	1296867	2.00	1.97	a
2	3.108	3.108	0.000	1434330	2.00	1.97	a
		Average of Peak Amounts =				1.96	
						RPD = 0.46	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	5.049	5.050	-0.001	2976769	2.00	2.00	a
1	5.242	5.243	0.000	2314069	2.00	2.00	a
1	5.448	5.448	0.000	5491646	2.00	2.01	a
1	5.706	5.706	0.000	1743461	2.00	2.00	a
1	5.823	5.823	0.000	2172970	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	4.525	4.526	-0.001	5167503	2.00	2.00	a
2	4.783	4.783	0.000	4115805	2.00	2.00	
2	4.925	4.925	0.000	9998675	2.00	2.02	a
2	5.220	5.220	0.000	4214950	2.00	2.01	a
2	5.257	5.256	0.001	6104175	2.00	2.01	a
		Average of Peak Amounts =				2.01	
						RPD = 0.23	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00005 Amount Added: 0.25 Units: mL

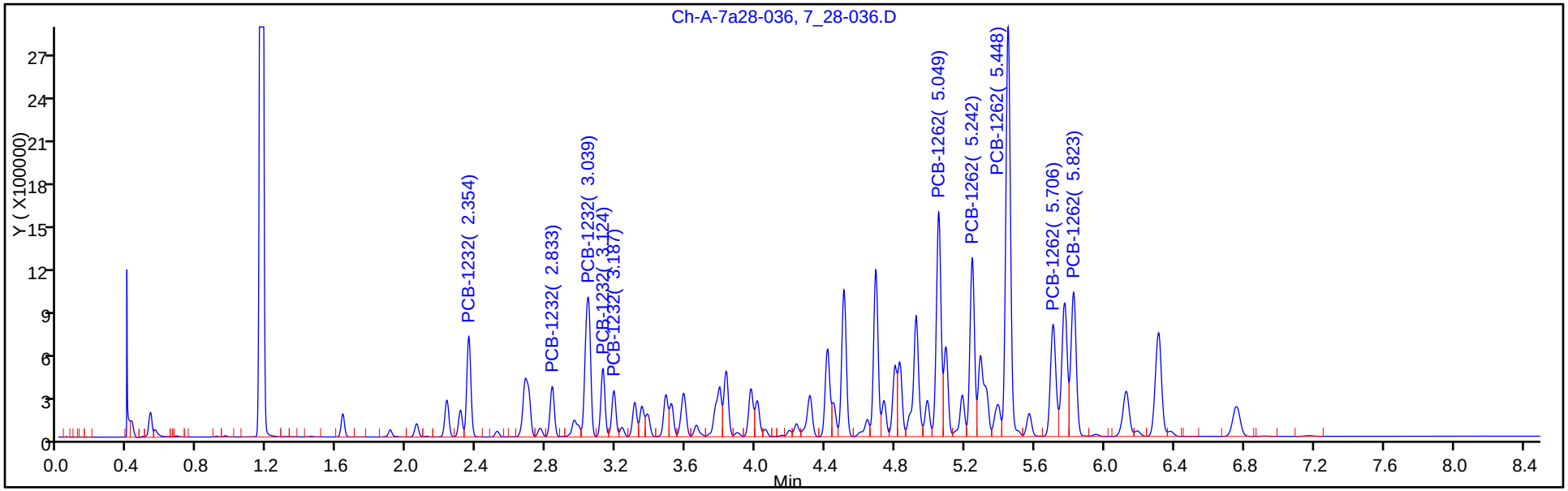
Report Date: 29-Mar-2017 10:55:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

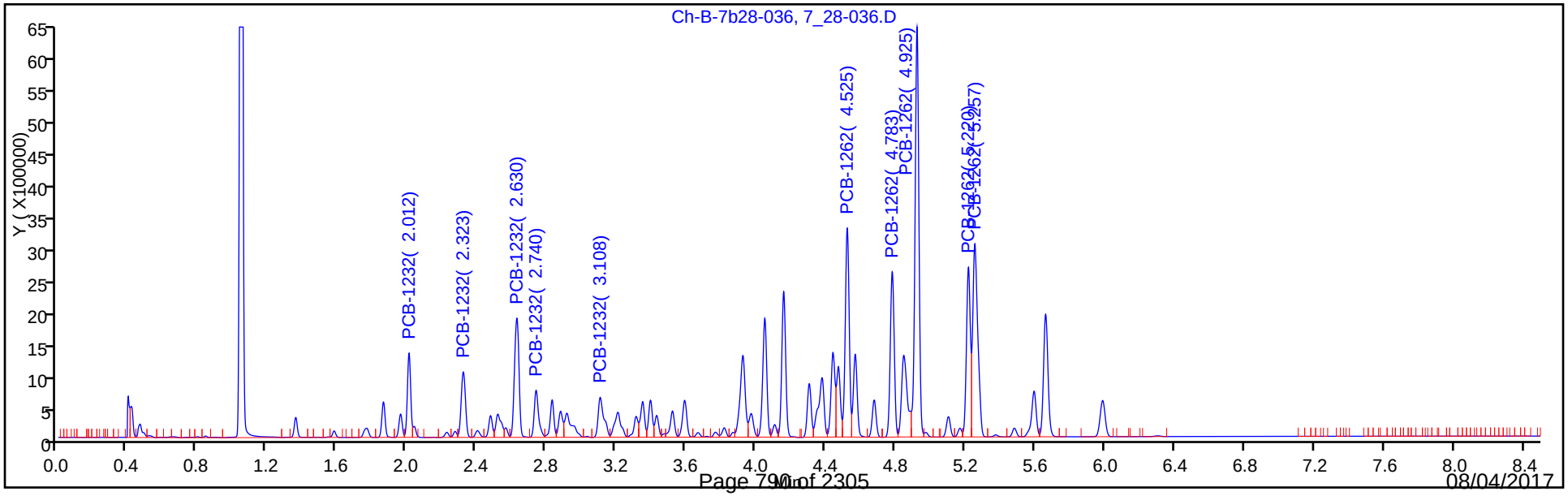
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D

Injection Date:	28-Mar-2017 16:59:49	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 17:15:44 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:05 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:41:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.165	1.167	-0.002	14250344	0.5000	0.5000	
2	1.049	1.048	0.001	25851508	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.353	2.355	-0.002	334911	0.5000	0.5449	
1	2.832	2.834	-0.002	173804	0.5000	0.5409	
1	3.038	3.039	-0.001	565414	0.5000	0.5137	
1	3.123	3.126	-0.004	218513	0.5000	0.5204	
1	3.185	3.187	-0.002	149292	0.5000	0.5188	
		Average of Peak Amounts =				0.5277	
2	2.011	2.011	0.000	517419	0.5000	0.5522	M
2	2.322	2.322	0.000	514104	0.5000	0.5457	M
2	2.630	2.628	0.002	932095	0.5000	0.5208	M
2	2.740	2.739	0.001	365995	0.5000	0.5348	M
2	3.108	3.108	0.000	401062	0.5000	0.5318	M
		Average of Peak Amounts =				0.5370	
						RPD = 1.75	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.048	5.050	-0.002	760515	0.5000	0.4993	
1	5.242	5.243	0.000	588139	0.5000	0.4969	
1	5.446	5.448	-0.002	1384220	0.5000	0.4948	
1	5.704	5.706	-0.002	448320	0.5000	0.5007	
1	5.822	5.823	0.000	550434	0.5000	0.4953	
		Average of Peak Amounts =				0.4974	
2	4.526	4.526	0.000	1320211	0.5000	0.4973	M
2	4.783	4.783	0.000	1068273	0.5000	0.5034	M
2	4.925	4.925	0.000	2452156	0.5000	0.4835	M
2	5.220	5.220	0.000	1056100	0.5000	0.4916	M
2	5.257	5.256	0.001	1512599	0.5000	0.4872	M
		Average of Peak Amounts =				0.4926	
						RPD = 0.97	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00008 Amount Added: 0.25 Units: mL

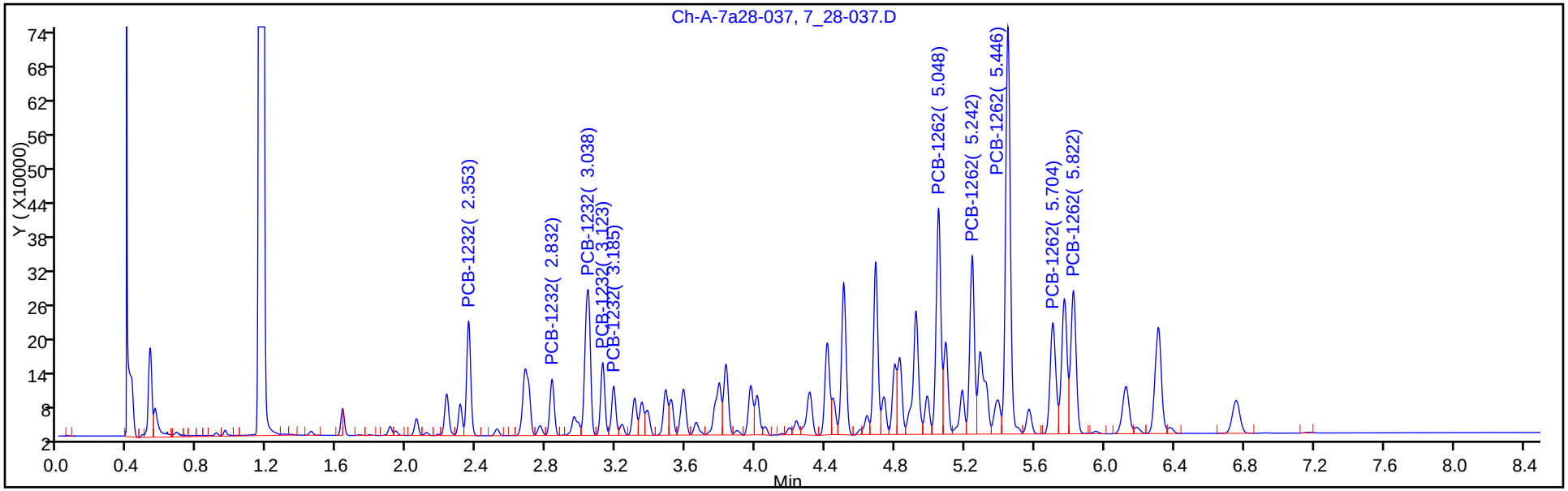
Report Date: 29-Mar-2017 10:55:05 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

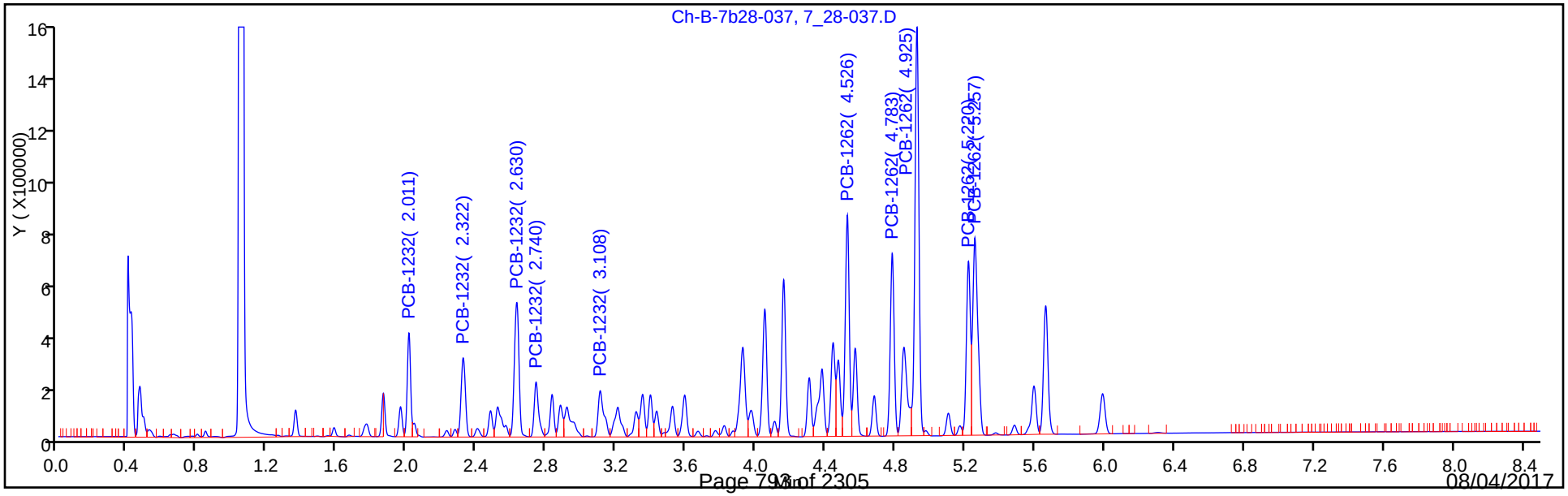
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date:	28-Mar-2017 17:15:44	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 17:31:48 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:09 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:06:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13895818	0.5000	0.5000	
2	1.049	1.049	0.000	25650662	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.355	2.355	0.000	17402	0.0200	0.0186	
1	2.834	2.834	0.000	9674	0.0200	0.0188	M
1	3.039	3.039	0.000	28820	0.0200	0.0196	M
1	3.126	3.126	0.000	14529	0.0200	0.0194	M
1	3.187	3.187	0.000	7700	0.0200	0.0194	M
		Average of Peak Amounts =				0.0192	
2	2.011	2.011	0.000	31396	0.0200	0.0184	
2	2.322	2.322	0.000	29932	0.0200	0.0186	M
2	2.628	2.628	0.000	55166	0.0200	0.0194	M
2	2.739	2.739	0.000	20022	0.0200	0.0189	M
2	3.108	3.108	0.000	20949	0.0200	0.0190	M
		Average of Peak Amounts =				0.0189	
						RPD = 1.48	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.050	5.050	0.000	38246	0.0200	0.0200	M
1	5.243	5.243	0.000	30264	0.0200	0.0201	M
1	5.448	5.448	0.000	66533	0.0200	0.0202	M
1	5.706	5.706	0.000	24137	0.0200	0.0200	M
1	5.823	5.823	0.000	28917	0.0200	0.0201	M
		Average of Peak Amounts =				0.0201	
2	4.526	4.526	0.000	63453	0.0200	0.0201	M
2	4.783	4.783	0.000	51373	0.0200	0.0199	M
2	4.925	4.925	0.000	104710	0.0200	0.0205	M
2	5.220	5.220	0.000	44964	0.0200	0.0203	M
2	5.256	5.256	0.000	65124	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00005 Amount Added: 0.25 Units: mL

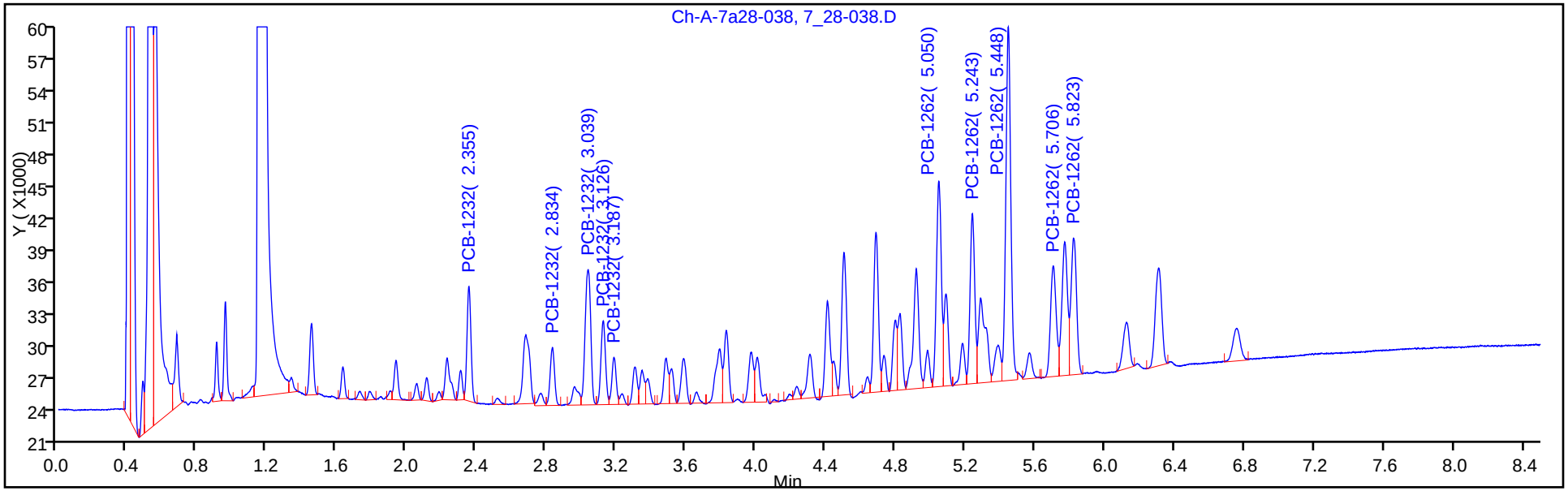
Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

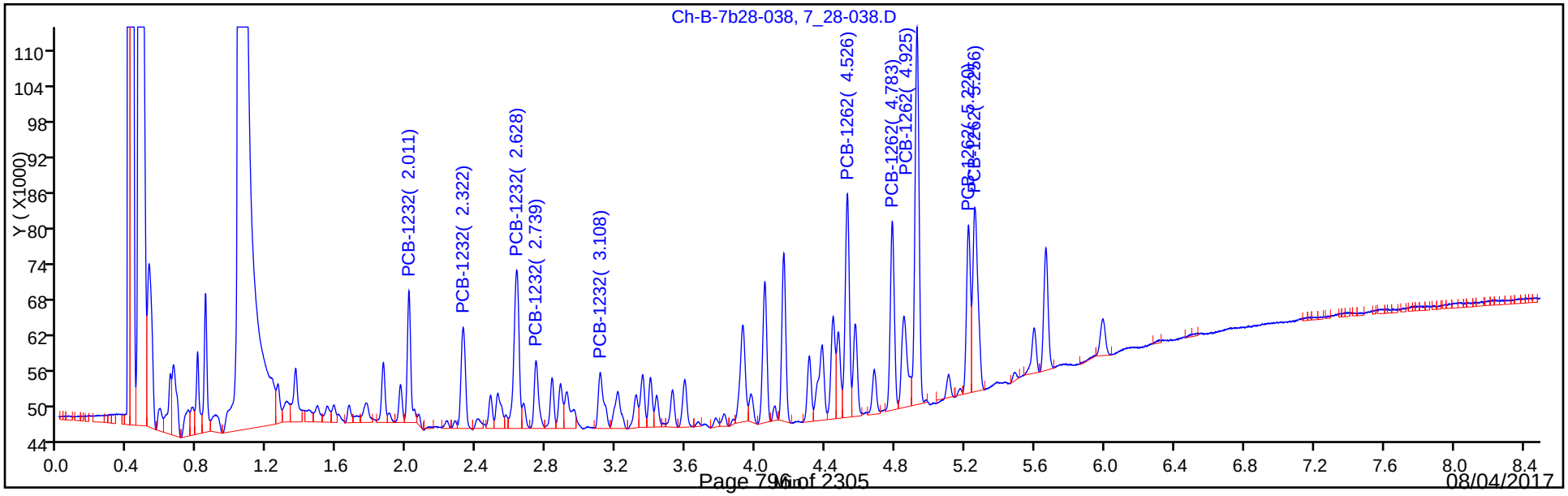
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date:	28-Mar-2017 17:31:48	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

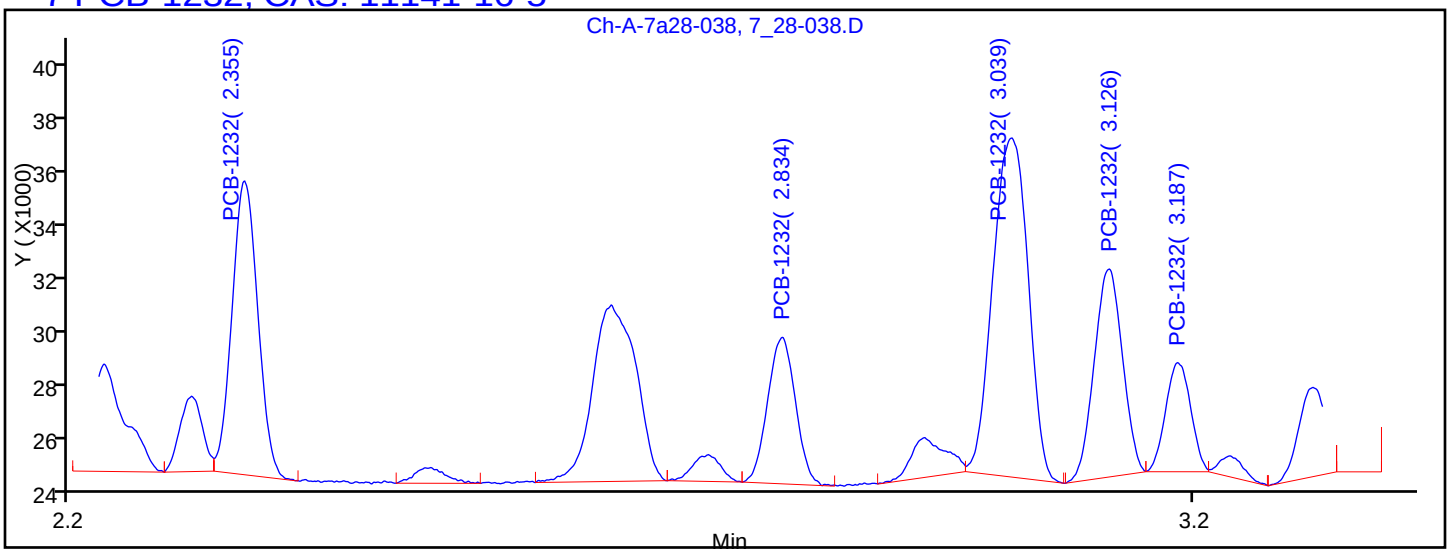
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

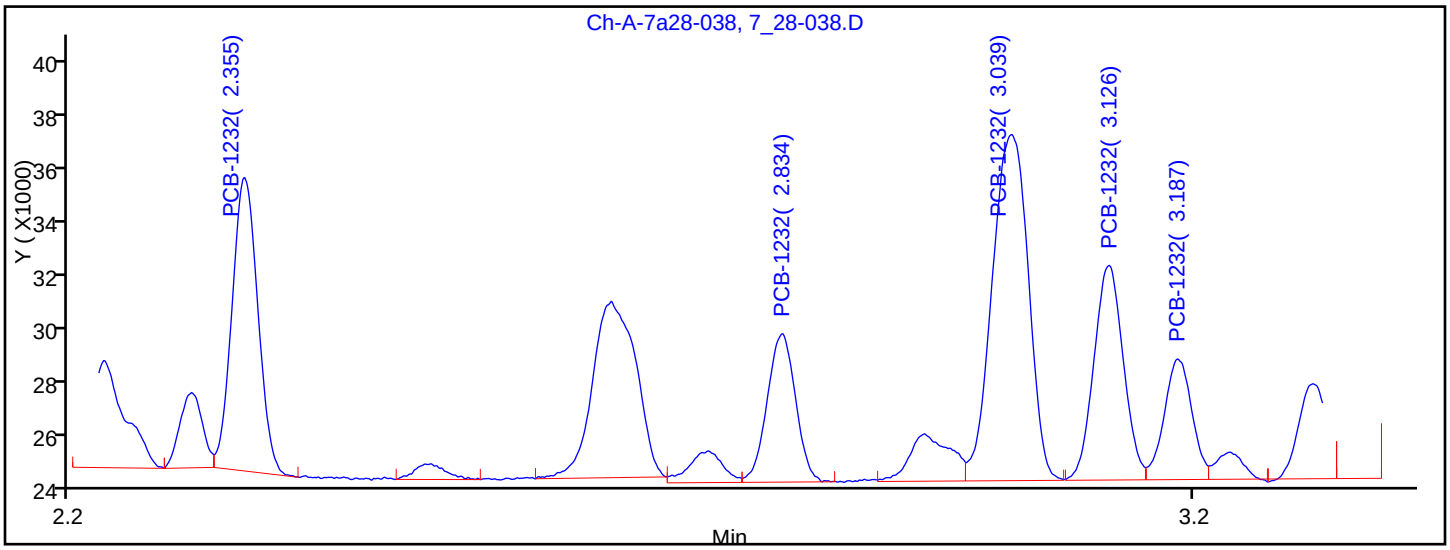
Column: Detector Ch-A-7A136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.355	Response = 17402
2.834	Response = 9355
3.039	Response = 27463
3.126	Response = 13519
3.187	Response = 6260



Manual Integration Results

2.355	Response = 17402	
2.834	Response = 9674	M
3.039	Response = 28820	M
3.126	Response = 14529	M
3.187	Response = 7700	M

Reviewer: owenj, 28-Mar-2017 17:51:16

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

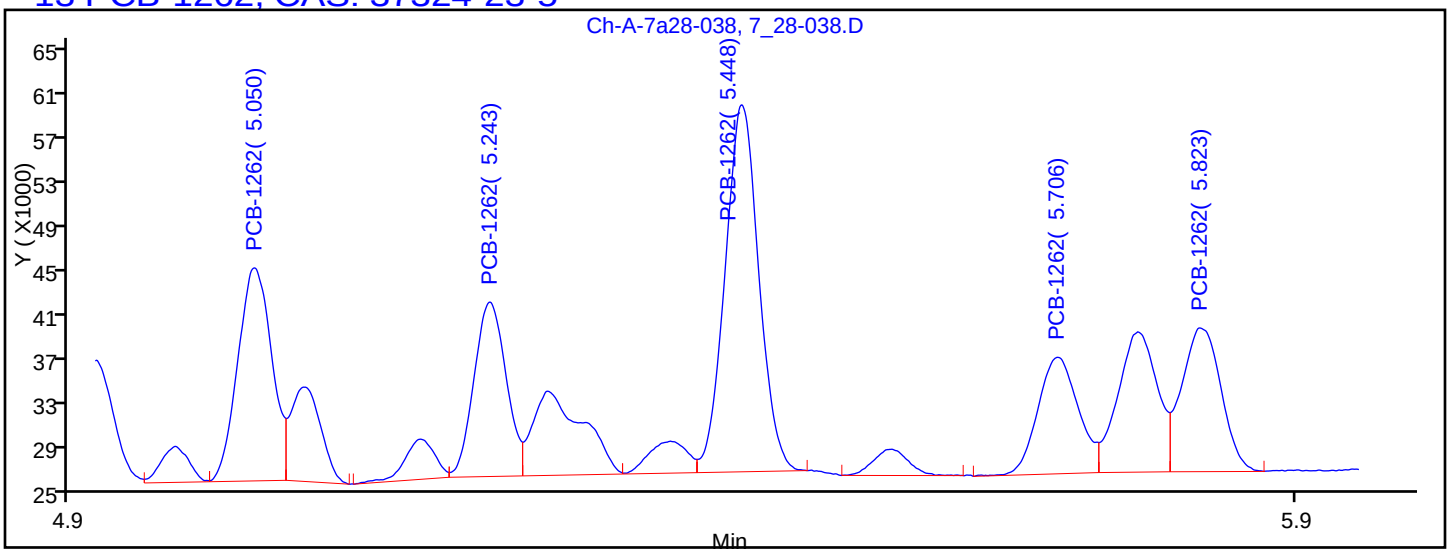
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

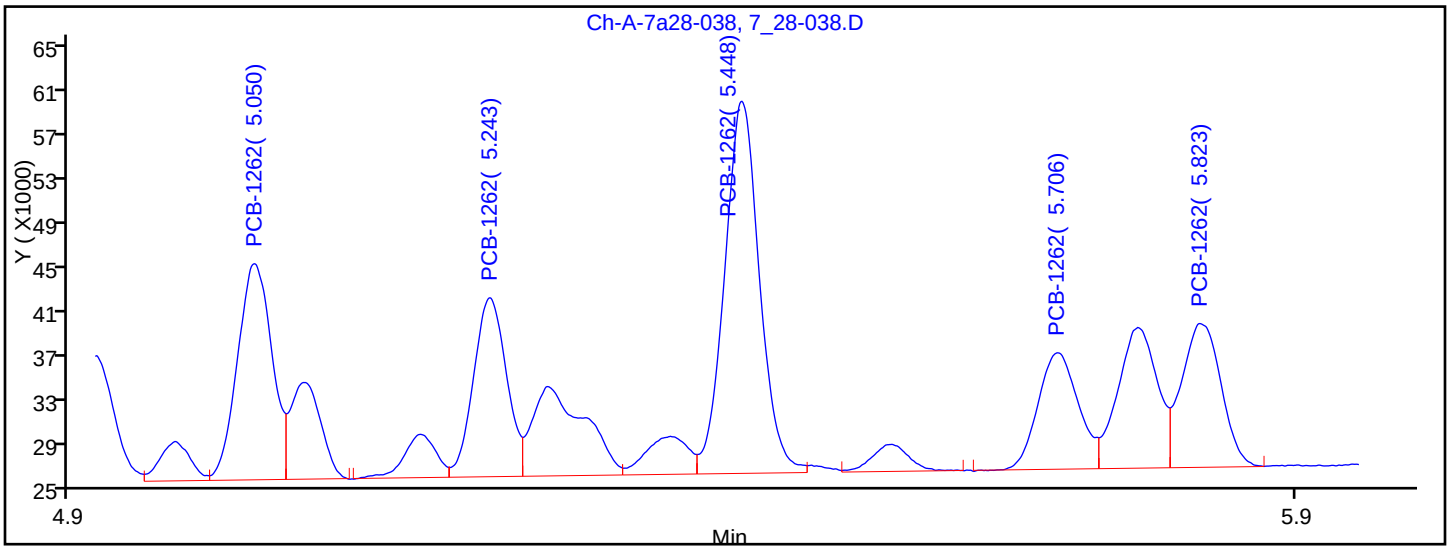
Column: Detector Ch-A-7A136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

5.050	Response = 36943
5.243	Response = 28597
5.448	Response = 63333
5.706	Response = 24131
5.823	Response = 28724



Manual Integration Results

5.050	Response = 38246	M
5.243	Response = 30264	M
5.448	Response = 66533	M
5.706	Response = 24137	M
5.823	Response = 28917	M

Reviewer: owenj, 28-Mar-2017 17:51:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30049

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	0.0306	0.0200	0.0173			Lin1	0.0003	0.0176							0.9970		0.9900
PCB-1232 Peak 2	0.0292	0.0199	0.0175			Lin1	0.0003	0.0178							0.9980		0.9900
PCB-1232 Peak 3	0.0538	0.0361	0.0337			Lin1	0.0004	0.0338							1.0000		0.9900
PCB-1232 Peak 4	0.0195	0.0142	0.0128			Lin1	0.0001	0.0130							0.9990		0.9900
PCB-1232 Peak 5	0.0204	0.0155	0.0142			Lin1	0.0001	0.0143							0.9990		0.9900
PCB-1262 Peak 1	0.0618	0.0511	0.0511			Lin1	0.0002	0.0509							1.0000		0.9900
PCB-1262 Peak 2	0.0501	0.0413	0.0407			Lin1	0.0002	0.0407							1.0000		0.9900
PCB-1262 Peak 3	0.1021	0.0949	0.0988			Lin1	0	0.0980							1.0000		0.9900
PCB-1262 Peak 4	0.0438	0.0409	0.0417			Lin1	0	0.0415							1.0000		0.9900
PCB-1262 Peak 5	0.0635	0.0585	0.0603			Lin1	0	0.0599							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30049

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	31396	517419	1750185			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	29932	514104	1769313			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	55166	932095	3407079			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	20022	365995	1296867			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	20949	401062	1434330			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Lin1	63453	1320211	5167503			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	51373	1068273	4115805			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Lin1	104710	2452156	9998675			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Lin1	44964	1056100	4214950			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Lin1	65124	1512599	6104175			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 16:59:49 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:32:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14046745	0.5000	0.5000	
2	1.050	1.048	0.002	25289938	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.354	2.355	-0.001	1168343	2.00	1.96	
1	2.833	2.834	-0.002	610530	2.00	1.96	
1	3.039	3.039	0.000	2131860	2.00	1.99	
1	3.124	3.126	-0.002	800272	2.00	1.98	
1	3.187	3.187	0.000	555432	2.00	1.98	
		Average of Peak Amounts =				1.97	
2	2.012	2.011	0.001	1750185	2.00	1.95	M
2	2.323	2.322	0.000	1769313	2.00	1.96	a
2	2.630	2.628	0.002	3407079	2.00	1.98	a
2	2.740	2.739	0.001	1296867	2.00	1.97	a
2	3.108	3.108	0.000	1434330	2.00	1.97	a
		Average of Peak Amounts =				1.96	
						RPD = 0.46	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	5.049	5.050	-0.001	2976769	2.00	2.00	a
1	5.242	5.243	0.000	2314069	2.00	2.00	a
1	5.448	5.448	0.000	5491646	2.00	2.01	a
1	5.706	5.706	0.000	1743461	2.00	2.00	a
1	5.823	5.823	0.000	2172970	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	4.525	4.526	-0.001	5167503	2.00	2.00	a
2	4.783	4.783	0.000	4115805	2.00	2.00	
2	4.925	4.925	0.000	9998675	2.00	2.02	a
2	5.220	5.220	0.000	4214950	2.00	2.01	a
2	5.257	5.256	0.001	6104175	2.00	2.01	a
		Average of Peak Amounts =				2.01	
						RPD = 0.23	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00005 Amount Added: 0.25 Units: mL

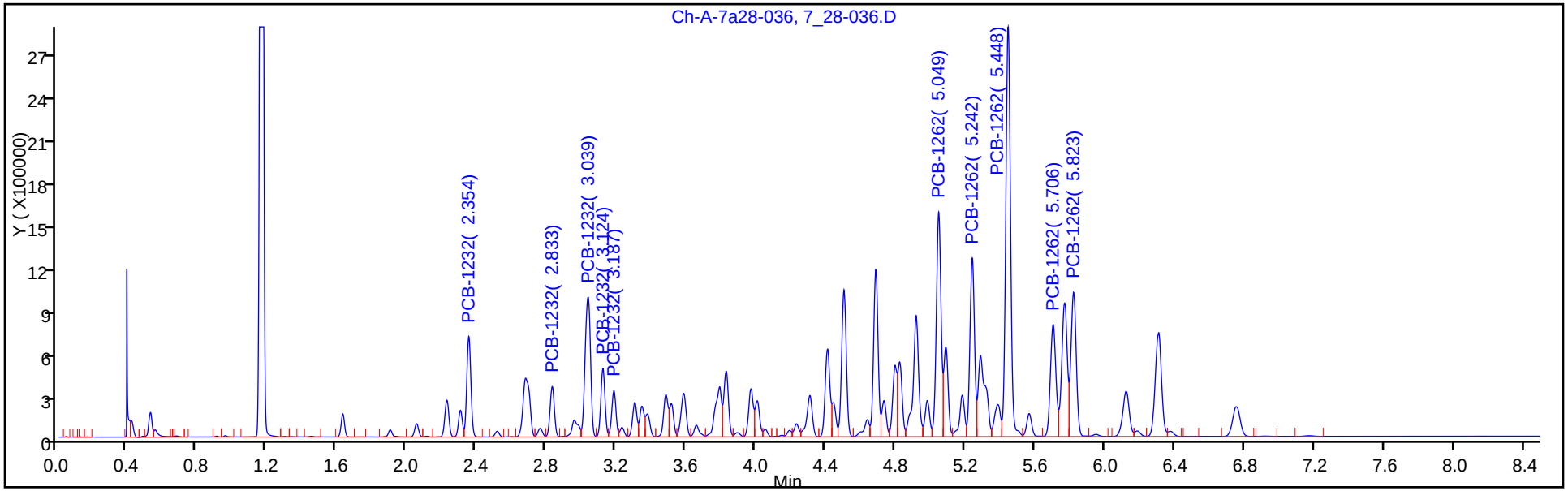
Report Date: 29-Mar-2017 10:55:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

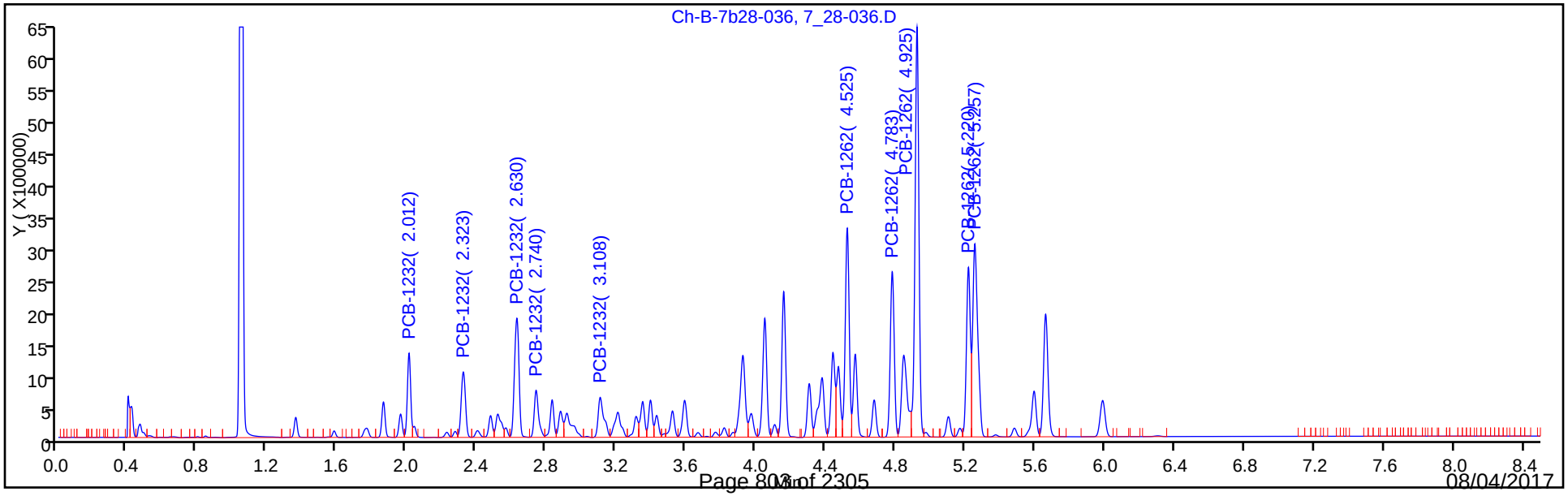
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D

Injection Date:	28-Mar-2017 16:59:49	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D

Injection Date: 28-Mar-2017 16:59:49 Instrument ID: HP6890-7

Lims ID: IC 3

Client ID:

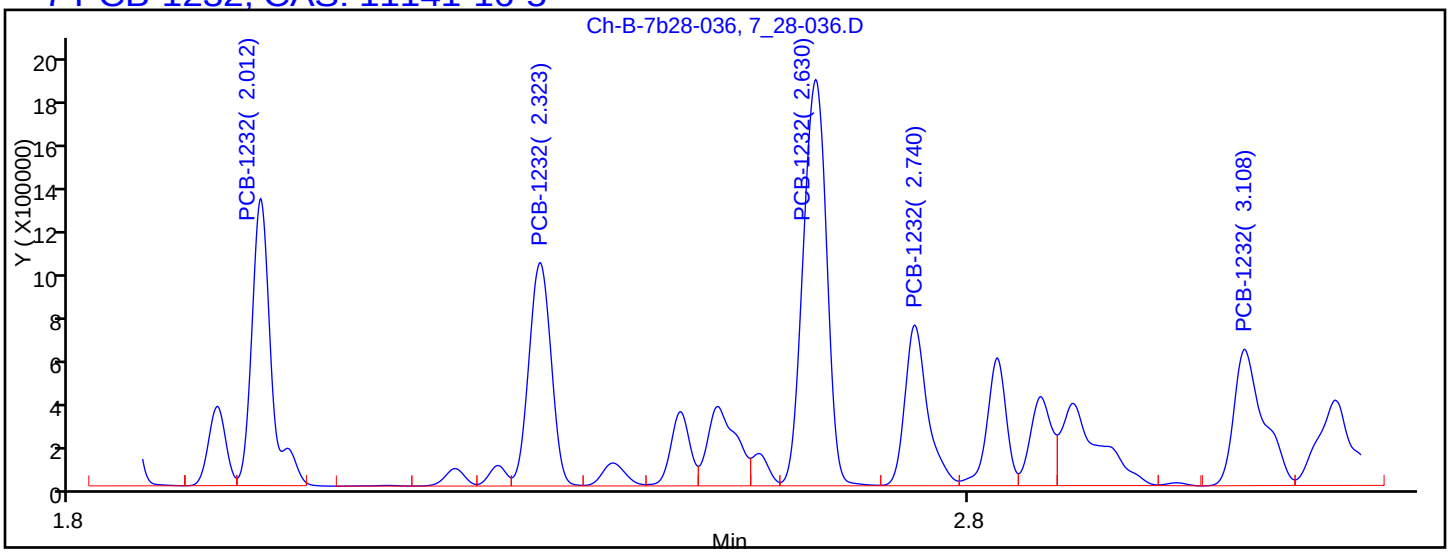
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

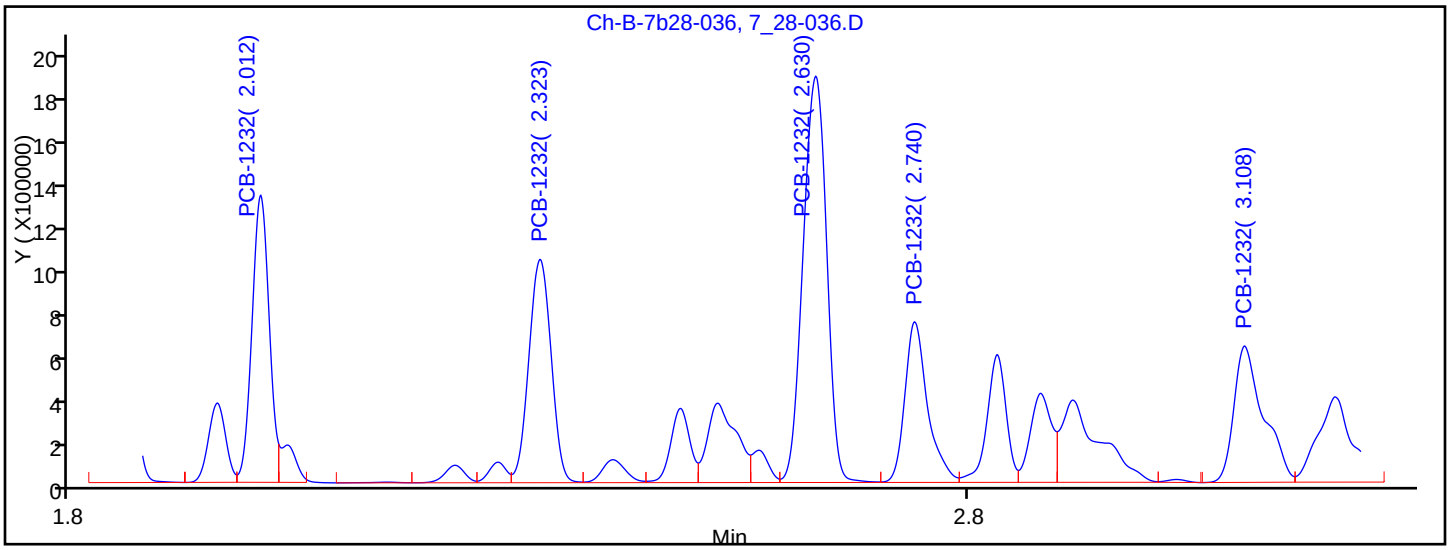
Column: Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.012	Response = 1962269
2.323	Response = 1769313
2.630	Response = 3407079
2.740	Response = 1296867
3.108	Response = 1434330



Manual Integration Results

2.012	Response = 1750185	M
2.323	Response = 1769313	M
2.630	Response = 3407079	M
2.740	Response = 1296867	M
3.108	Response = 1434330	M

Reviewer: owenj, 28-Mar-2017 17:40:19

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 17:15:44 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:05 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:41:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.165	1.167	-0.002	14250344	0.5000	0.5000	
2	1.049	1.048	0.001	25851508	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.353	2.355	-0.002	334911	0.5000	0.5449	
1	2.832	2.834	-0.002	173804	0.5000	0.5409	
1	3.038	3.039	-0.001	565414	0.5000	0.5137	
1	3.123	3.126	-0.004	218513	0.5000	0.5204	
1	3.185	3.187	-0.002	149292	0.5000	0.5188	
		Average of Peak Amounts =				0.5277	
2	2.011	2.011	0.000	517419	0.5000	0.5522	M
2	2.322	2.322	0.000	514104	0.5000	0.5457	M
2	2.630	2.628	0.002	932095	0.5000	0.5208	M
2	2.740	2.739	0.001	365995	0.5000	0.5348	M
2	3.108	3.108	0.000	401062	0.5000	0.5318	M
		Average of Peak Amounts =				0.5370	
						RPD = 1.75	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.048	5.050	-0.002	760515	0.5000	0.4993	
1	5.242	5.243	0.000	588139	0.5000	0.4969	
1	5.446	5.448	-0.002	1384220	0.5000	0.4948	
1	5.704	5.706	-0.002	448320	0.5000	0.5007	
1	5.822	5.823	0.000	550434	0.5000	0.4953	
		Average of Peak Amounts =				0.4974	
2	4.526	4.526	0.000	1320211	0.5000	0.4973	M
2	4.783	4.783	0.000	1068273	0.5000	0.5034	M
2	4.925	4.925	0.000	2452156	0.5000	0.4835	M
2	5.220	5.220	0.000	1056100	0.5000	0.4916	M
2	5.257	5.256	0.001	1512599	0.5000	0.4872	M
		Average of Peak Amounts =				0.4926	
						RPD = 0.97	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00008 Amount Added: 0.25 Units: mL

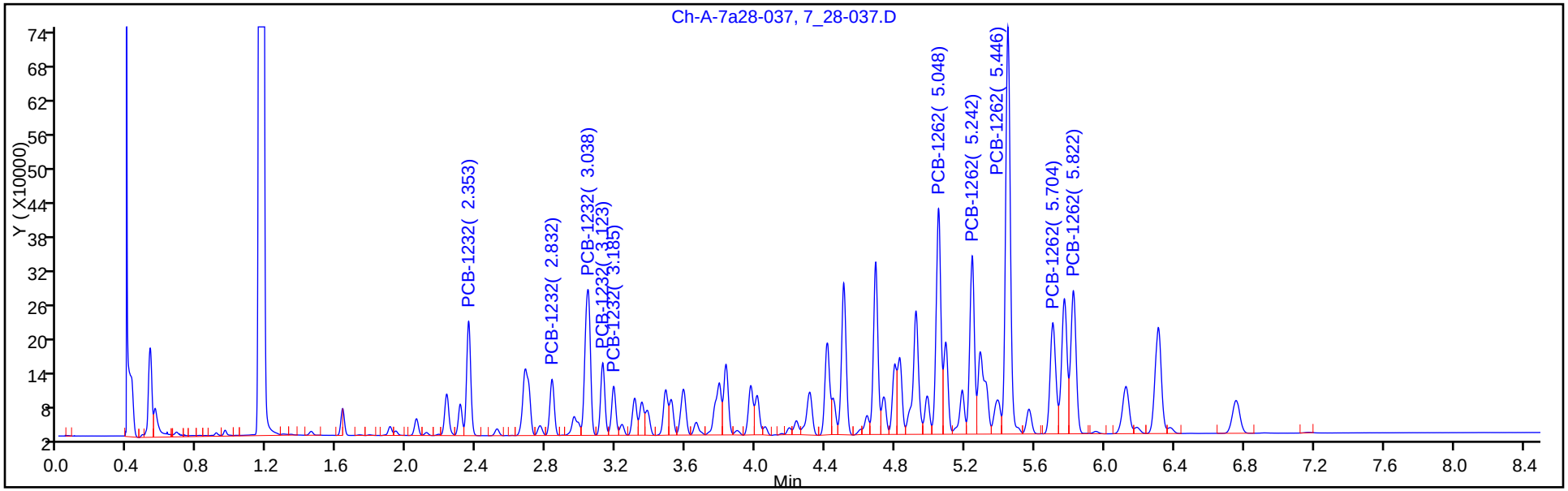
Report Date: 29-Mar-2017 10:55:06 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

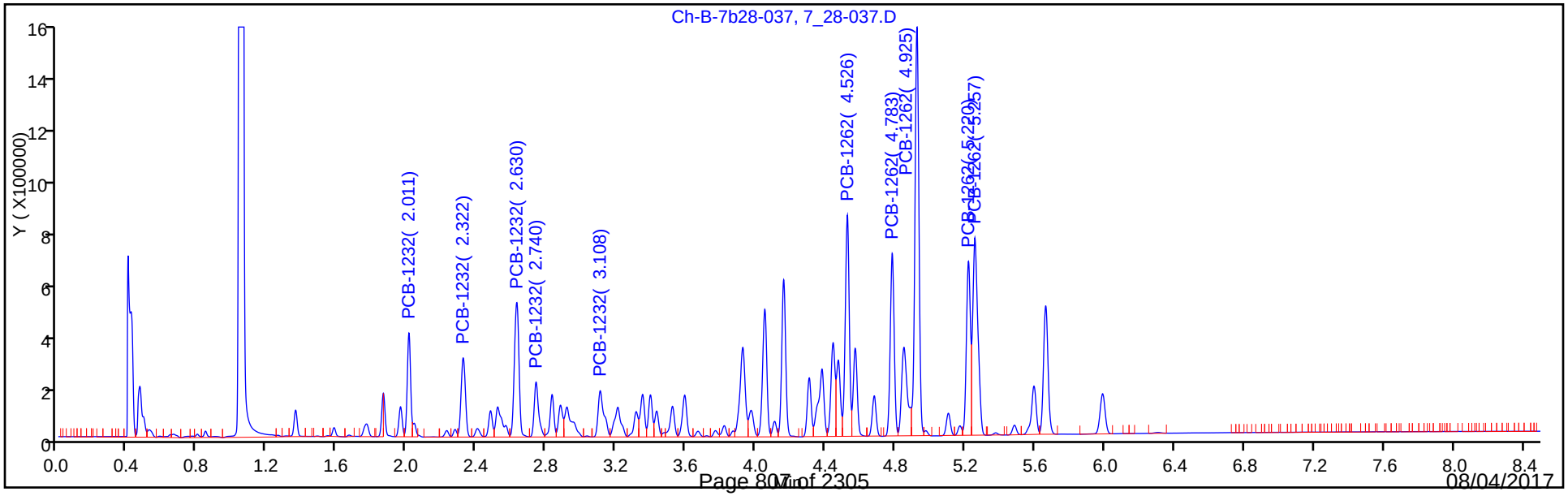
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date:	28-Mar-2017 17:15:44	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:06 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date: 28-Mar-2017 17:15:44 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

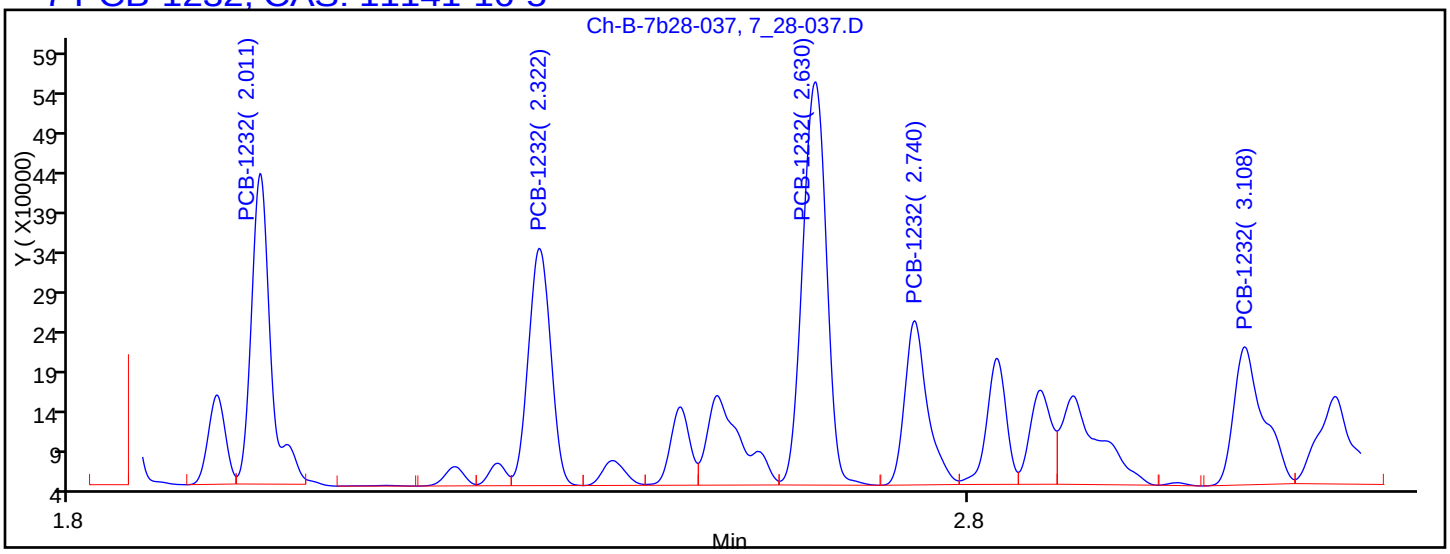
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

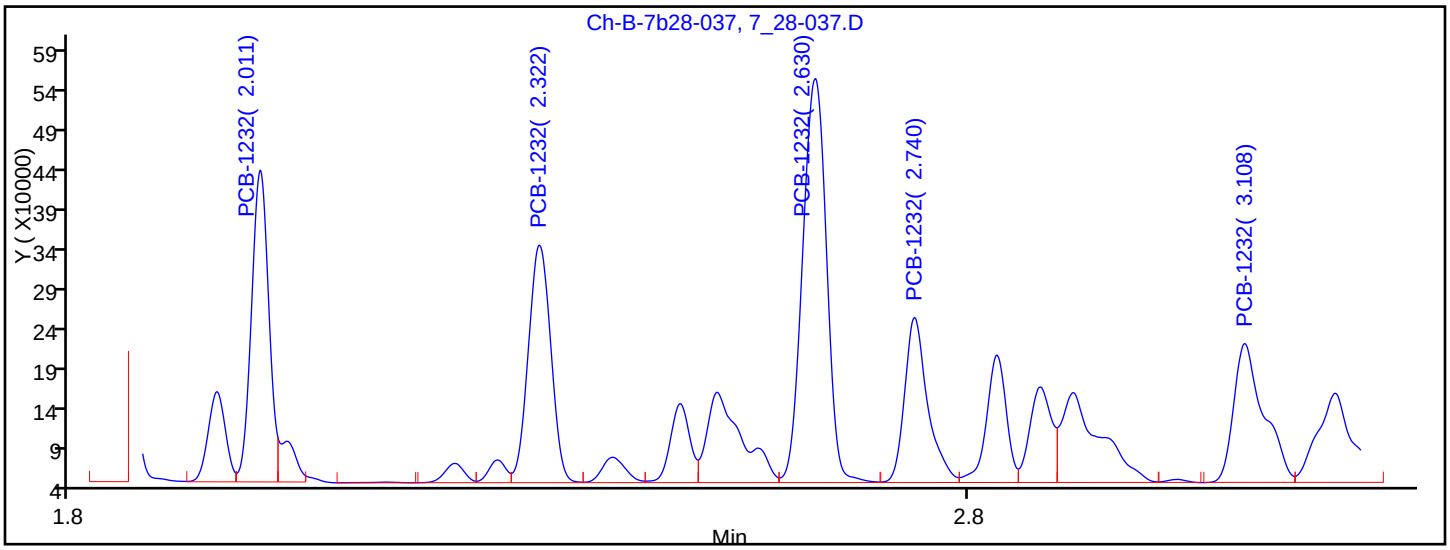
Column: Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.011	Response = 577204
2.322	Response = 512141
2.630	Response = 926169
2.740	Response = 360028
3.108	Response = 394142



Manual Integration Results

2.011	Response = 517419	M
2.322	Response = 514104	M
2.630	Response = 932095	M
2.740	Response = 365995	M
3.108	Response = 401062	M

Reviewer: owenj, 28-Mar-2017 17:41:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:06 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date: 28-Mar-2017 17:15:44 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

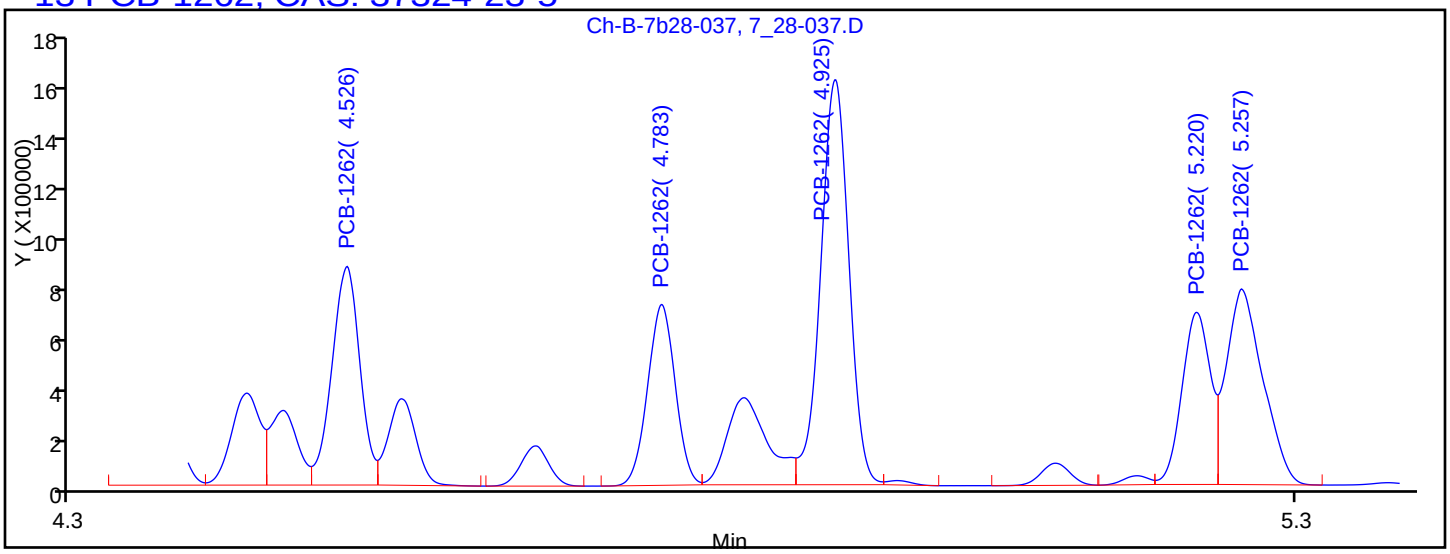
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

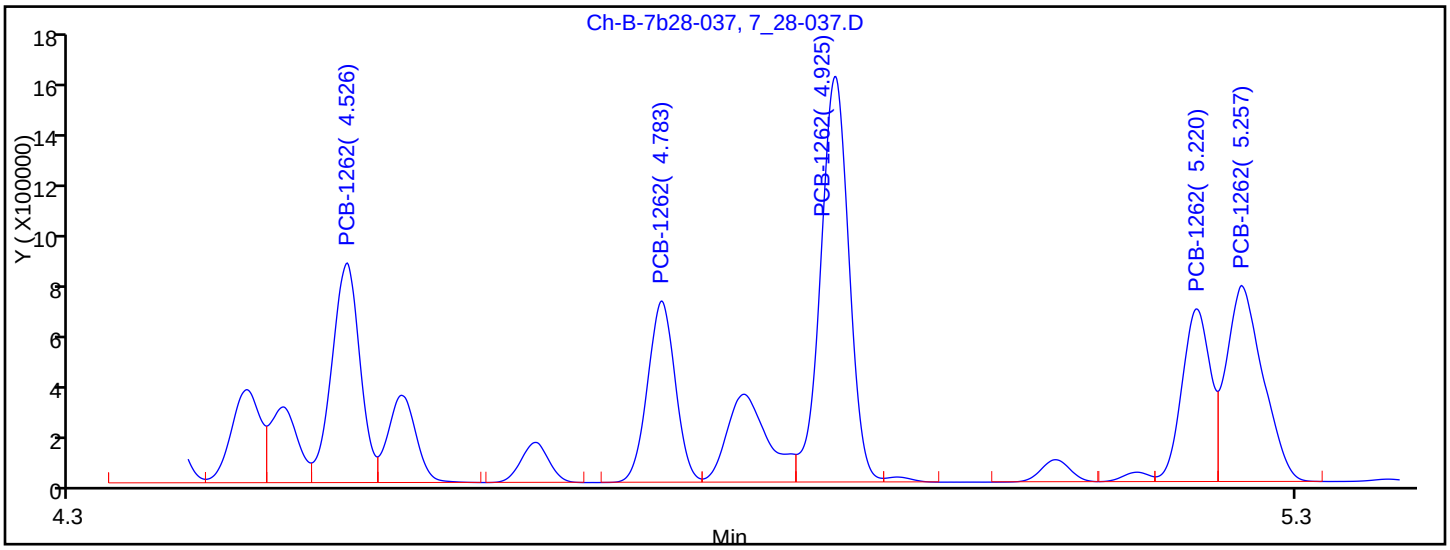
Column: Detector Ch-B-7b136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.526	Response = 1307081
4.783	Response = 1063122
4.925	Response = 2439406
5.220	Response = 1048986
5.257	Response = 1508361



Manual Integration Results

4.526	Response = 1320211	M
4.783	Response = 1068273	M
4.925	Response = 2452156	M
5.220	Response = 1056100	M
5.257	Response = 1512599	M

Reviewer: owenj, 28-Mar-2017 17:41:21

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 17:31:48 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:09 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:06:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13895818	0.5000	0.5000	
2	1.049	1.049	0.000	25650662	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.355	2.355	0.000	17402	0.0200	0.0186	
1	2.834	2.834	0.000	9674	0.0200	0.0188	M
1	3.039	3.039	0.000	28820	0.0200	0.0196	M
1	3.126	3.126	0.000	14529	0.0200	0.0194	M
1	3.187	3.187	0.000	7700	0.0200	0.0194	M
		Average of Peak Amounts =				0.0192	
2	2.011	2.011	0.000	31396	0.0200	0.0184	
2	2.322	2.322	0.000	29932	0.0200	0.0186	M
2	2.628	2.628	0.000	55166	0.0200	0.0194	M
2	2.739	2.739	0.000	20022	0.0200	0.0189	M
2	3.108	3.108	0.000	20949	0.0200	0.0190	M
		Average of Peak Amounts =				0.0189	
						RPD = 1.48	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.050	5.050	0.000	38246	0.0200	0.0200	M
1	5.243	5.243	0.000	30264	0.0200	0.0201	M
1	5.448	5.448	0.000	66533	0.0200	0.0202	M
1	5.706	5.706	0.000	24137	0.0200	0.0200	M
1	5.823	5.823	0.000	28917	0.0200	0.0201	M
		Average of Peak Amounts =				0.0201	
2	4.526	4.526	0.000	63453	0.0200	0.0201	M
2	4.783	4.783	0.000	51373	0.0200	0.0199	M
2	4.925	4.925	0.000	104710	0.0200	0.0205	M
2	5.220	5.220	0.000	44964	0.0200	0.0203	M
2	5.256	5.256	0.000	65124	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00005 Amount Added: 0.25 Units: mL

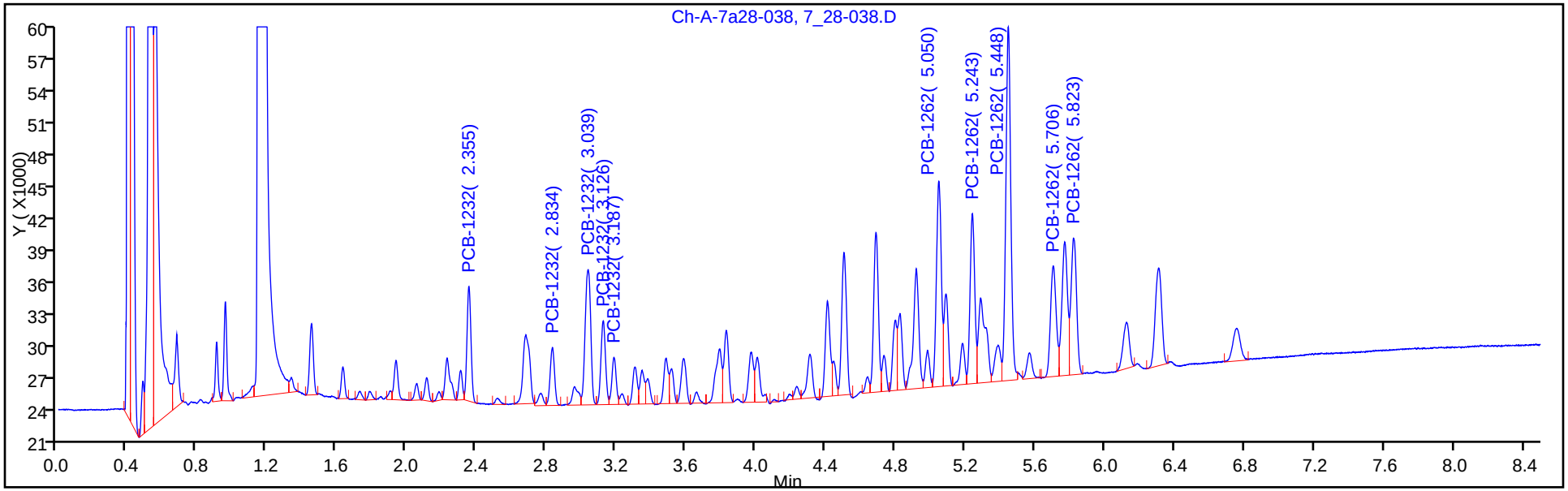
Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

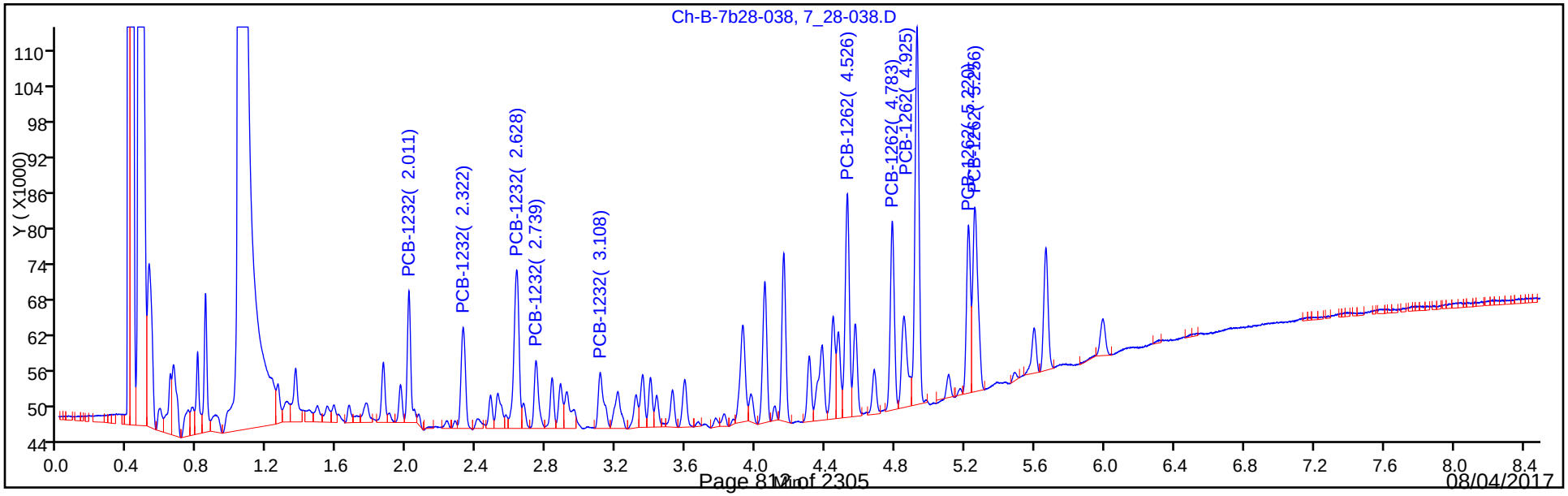
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date:	28-Mar-2017 17:31:48	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

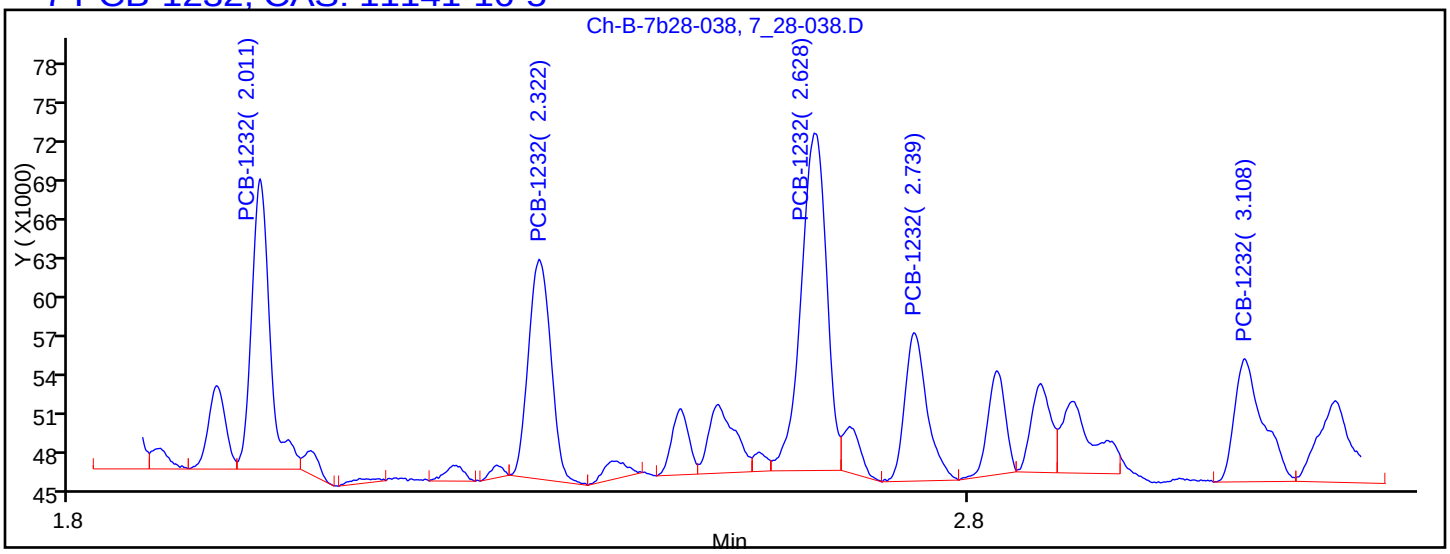
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

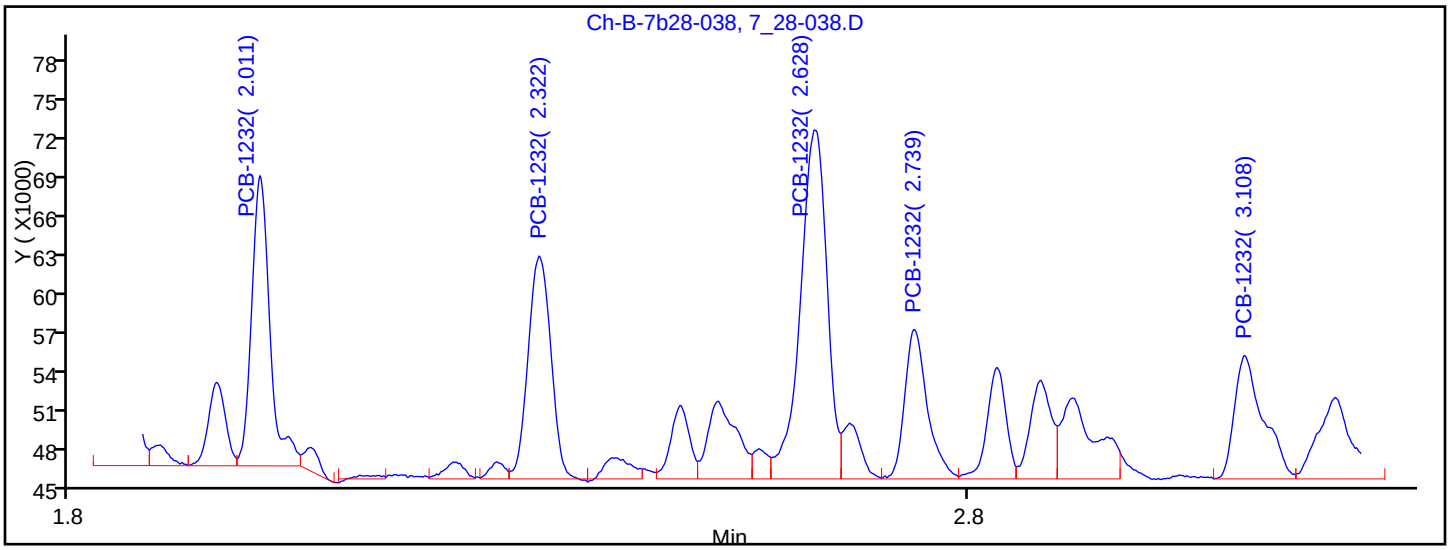
Column: Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.011	Response = 31396
2.322	Response = 29165
2.628	Response = 51011
2.739	Response = 19530
3.108	Response = 20745



Manual Integration Results

2.011	Response = 31396	
2.322	Response = 29932	M
2.628	Response = 55166	M
2.739	Response = 20022	M
3.108	Response = 20949	M

Reviewer: owenj, 28-Mar-2017 17:51:31

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

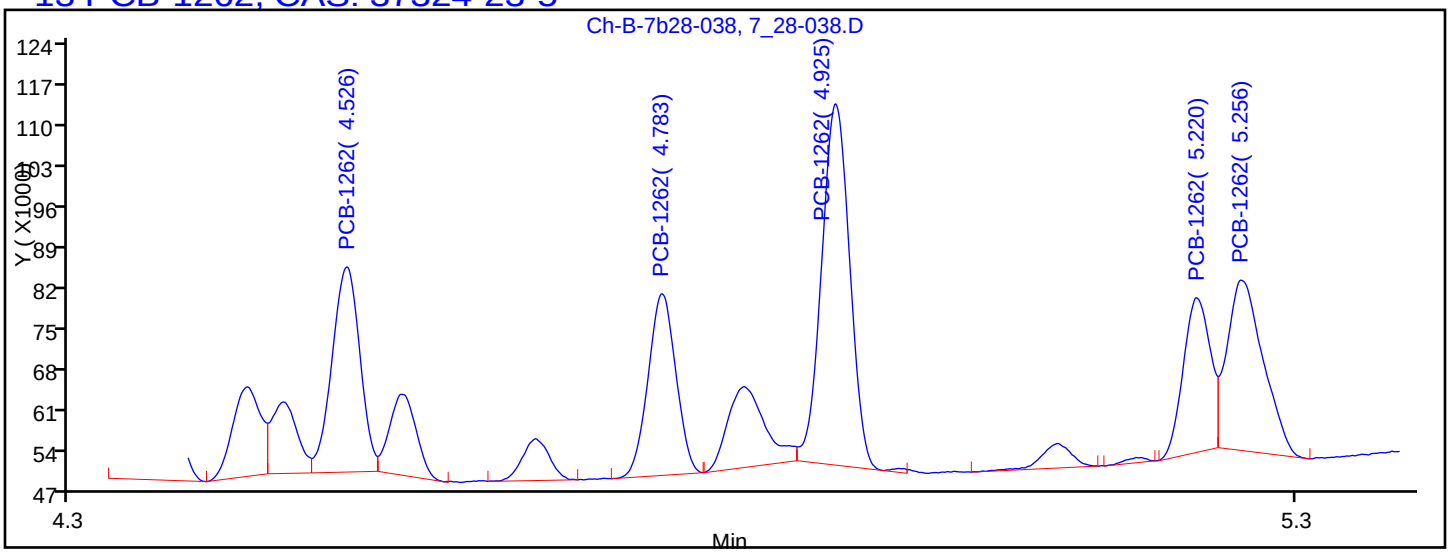
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

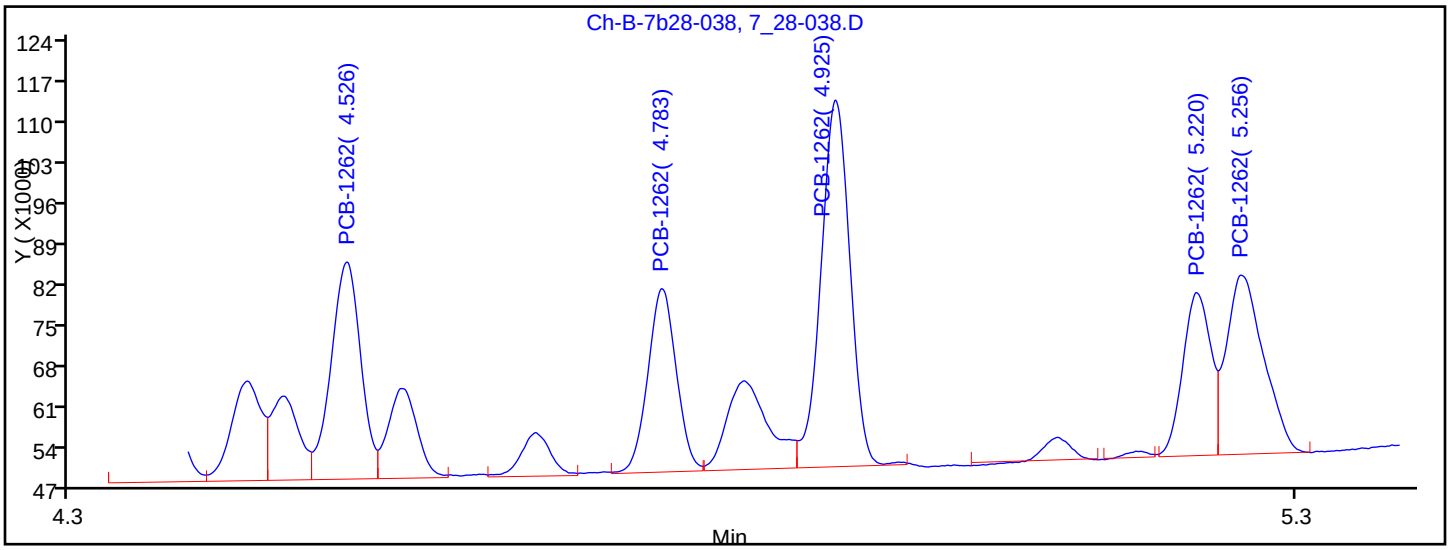
Column: Detector Ch-B-7b136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.526	Response = 55928
4.783	Response = 49130
4.925	Response = 99537
5.220	Response = 41021
5.256	Response = 60082



Manual Integration Results

4.526	Response = 63453	M
4.783	Response = 51373	M
4.925	Response = 104710	M
5.220	Response = 44964	M
5.256	Response = 65124	M

Reviewer: owenj, 28-Mar-2017 17:51:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	0.0890	0.0709	0.0666			Lin1	0.0005	0.0670							1.0000		0.9900
PCB-1242 Peak 2	0.0486	0.0265	0.0247			Lin1	0.0005	0.0246							1.0000		0.9900
PCB-1242 Peak 3	0.0322	0.0198	0.0190			Lin1	0.0003	0.0189							1.0000		0.9900
PCB-1242 Peak 4	0.0311	0.0237	0.0225			Lin1	0.0002	0.0226							1.0000		0.9900
PCB-1242 Peak 5	0.0414	0.0333	0.0321			Lin1	0.0002	0.0322							1.0000		0.9900
PCB-1268 Peak 1	0.1554	0.1075	0.1066			Lin1	0.0010	0.1060							1.0000		0.9900
PCB-1268 Peak 2	0.1449	0.0978	0.0989			Lin1	0.0009	0.0979							1.0000		0.9900
PCB-1268 Peak 3	0.1484	0.0820	0.0822			Lin1	0.0013	0.0811							1.0000		0.9900
PCB-1268 Peak 4	0.0630	0.0377	0.0366			Lin1	0.0005	0.0364							1.0000		0.9900
PCB-1268 Peak 5	0.3629	0.2657	0.2663			Lin1	0.0019	0.2647							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	45024	988715	3730845			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	24575	370241	1381712			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	16297	276130	1064743			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	15761	331038	1259668			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	20943	464108	1801893			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Lin1	78633	1500432	5975368			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Lin1	73321	1364645	5541707			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Lin1	75079	1144877	4607641			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Lin1	31871	526604	2051179			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Lin1	183632	3708198	14926402			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 18:03:31 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:20 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:28:23

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14011659	0.5000	0.5000	
2	1.049	1.049	0.000	25753742	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.037	3.038	-0.001	3730845	2.00	1.98	a
1	3.123	3.126	-0.003	1381712	2.00	1.98	a
1	3.484	3.486	-0.002	1064743	2.00	1.99	a
1	3.587	3.588	-0.001	1259668	2.00	1.98	a
1	3.792	3.793	-0.001	1801893	2.00	1.99	a
		Average of Peak Amounts =				1.99	
2	2.630	2.631	-0.001	6001083	2.00	1.98	
2	2.740	2.743	-0.003	2261171	2.00	1.99	
2	3.108	3.110	-0.002	2736567	2.00	1.98	
2	3.351	3.346	0.005	1921262	2.00	2.06	a
2	3.396	3.397	-0.001	1766998	2.00	1.99	a
		Average of Peak Amounts =				2.00	
						RPD = 0.77	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	5975368	2.00	2.00	a
1	5.822	5.823	0.000	5541707	2.00	2.01	a
1	6.107	6.108	-0.001	4607641	2.00	2.01	a
1	6.309	6.310	-0.001	2051179	2.00	2.00	a
1	6.757	6.758	-0.001	14926402	2.00	2.01	a
		Average of Peak Amounts =				2.00	
2	5.220	5.220	0.000	11132269	2.00	2.02	a
2	5.259	5.258	0.001	10240144	2.00	2.02	a
2	5.483	5.485	-0.002	8678923	2.00	2.02	a
2	5.664	5.665	-0.001	3712088	2.00	2.04	a
2	5.991	5.990	0.001	29910422	2.00	2.03	a
		Average of Peak Amounts =				2.03	
						RPD = 1.06	

Reagents:

42-68w/IS@2.0_00005 Amount Added: 0.25 Units: mL

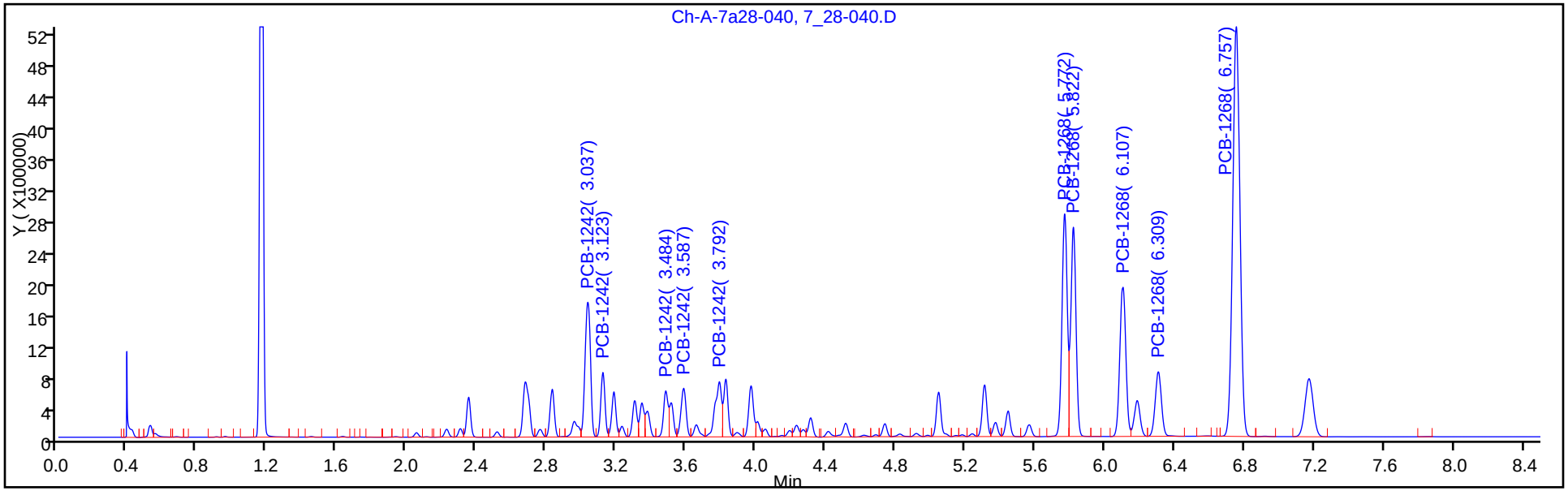
Report Date: 29-Mar-2017 10:55:20 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

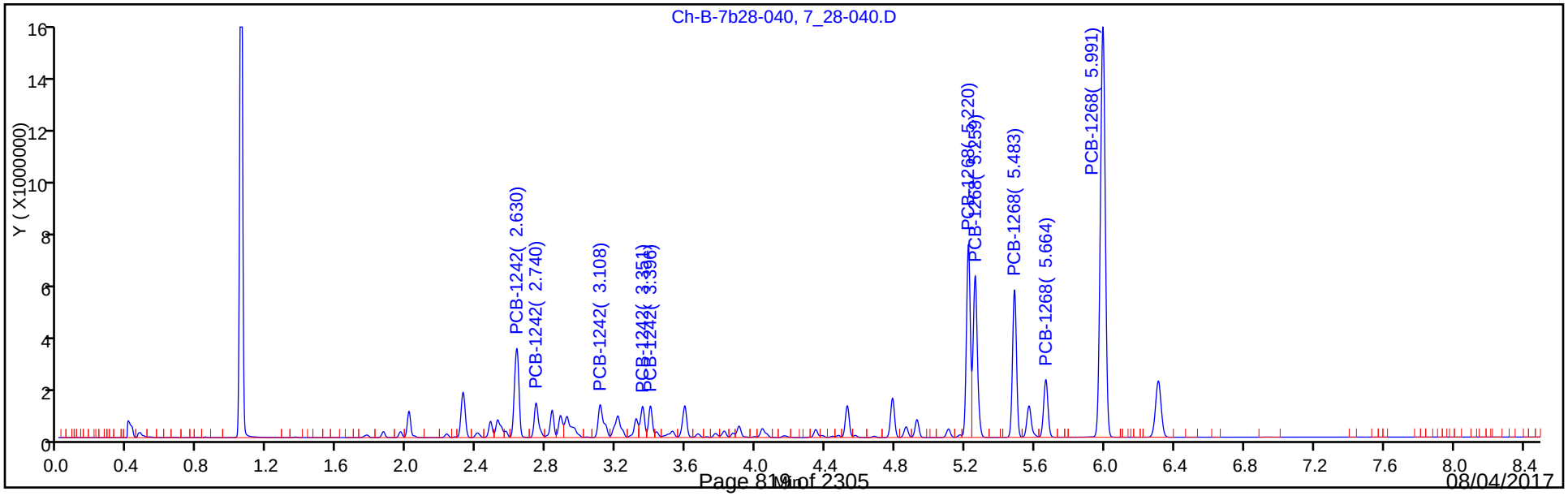
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D

Injection Date:	28-Mar-2017 18:03:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 18:19:33 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:24 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:26:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	13954704	0.5000	0.5000	
2	1.050	1.049	0.001	25885897	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.038	3.038	0.000	988715	0.5000	0.5214	
1	3.123	3.126	-0.004	370241	0.5000	0.5186	
1	3.484	3.486	-0.002	276130	0.5000	0.5082	
1	3.587	3.588	-0.001	331038	0.5000	0.5173	
1	3.792	3.793	-0.001	464108	0.5000	0.5102	
		Average of Peak Amounts =				0.5151	
2	2.630	2.631	-0.001	1589338	0.5000	0.5157	
2	2.741	2.743	-0.002	603453	0.5000	0.5096	
2	3.109	3.110	-0.001	728642	0.5000	0.5190	
2	3.353	3.346	0.006	447304	0.5000	0.4384	
2	3.397	3.397	0.000	464875	0.5000	0.5139	
		Average of Peak Amounts =				0.4993	
						RPD = 3.12	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	1500432	0.5000	0.4979	
1	5.823	5.823	0.000	1364645	0.5000	0.4899	
1	6.105	6.108	-0.003	1144877	0.5000	0.4894	
1	6.310	6.310	0.000	526604	0.5000	0.5037	
1	6.758	6.758	0.000	3708198	0.5000	0.4947	
		Average of Peak Amounts =				0.4951	
2	5.221	5.220	0.001	2662043	0.5000	0.4792	
2	5.259	5.258	0.001	2453043	0.5000	0.4804	
2	5.484	5.485	-0.001	2066721	0.5000	0.4772	
2	5.664	5.665	-0.001	901567	0.5000	0.4639	
2	5.991	5.990	0.001	6947966	0.5000	0.4651	
		Average of Peak Amounts =				0.4732	
						RPD = 4.53	

Reagents:

42-68w/IS@0.5_00008 Amount Added: 0.25 Units: mL

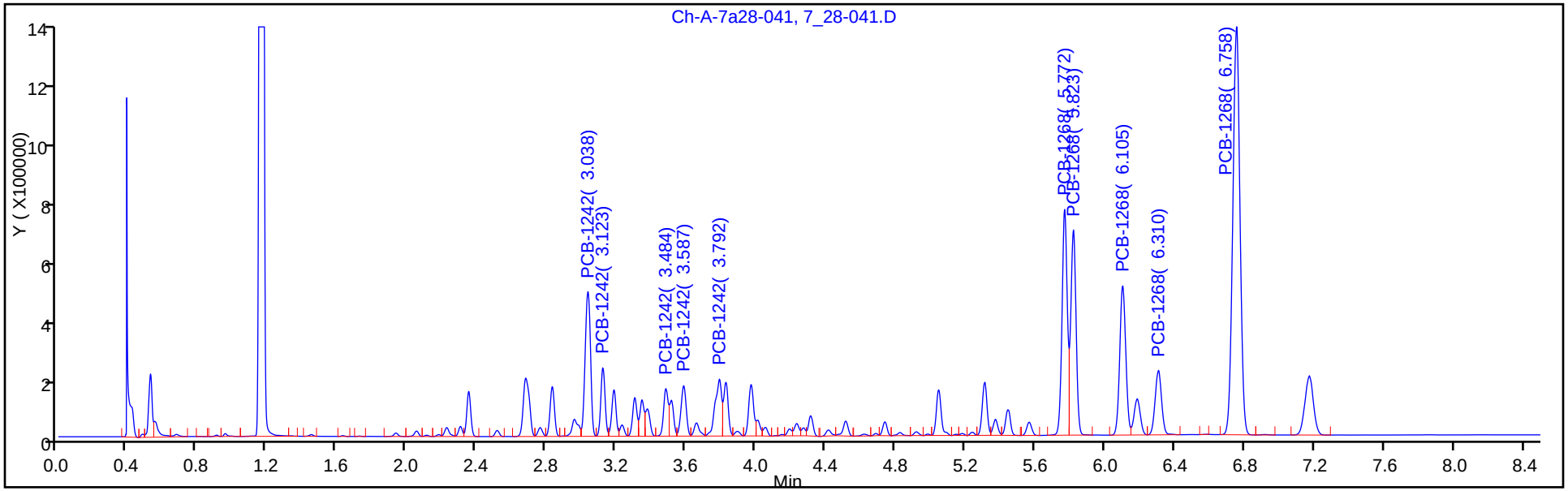
Report Date: 29-Mar-2017 10:55:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

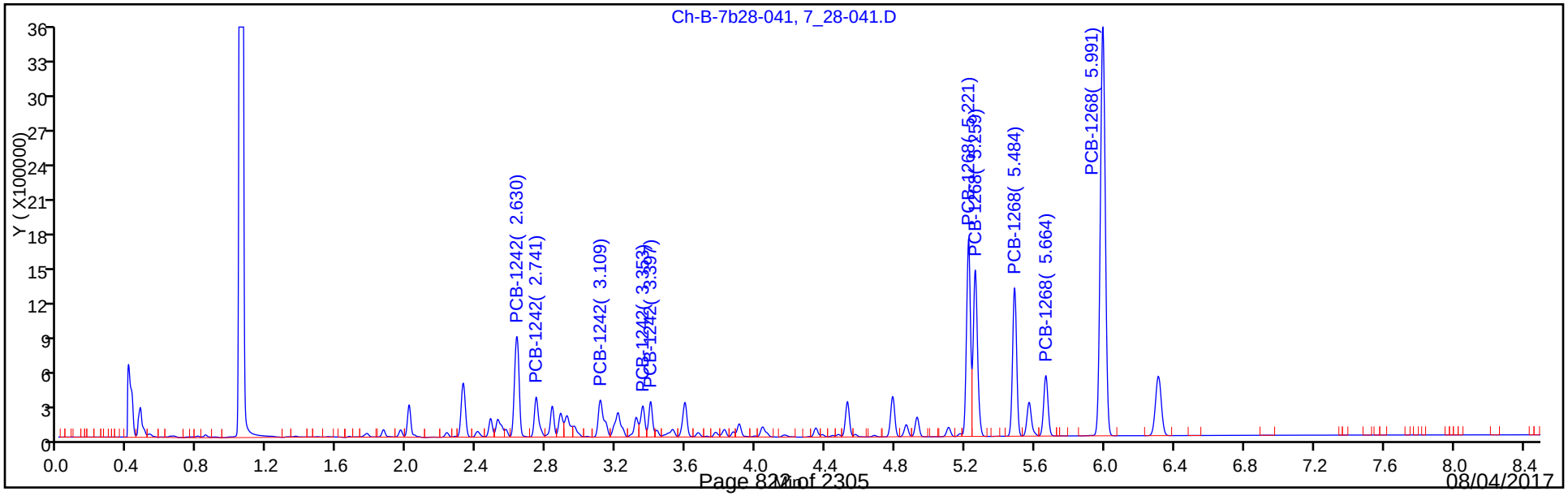
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D

Injection Date:	28-Mar-2017 18:19:33	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 18:35:31 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:28 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:38:32

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	12650899	0.5000	0.5000	
2	1.050	1.050	0.000	21899156	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	3.038	3.038	0.000	45024	0.0200	0.0194	M
1	3.126	3.126	0.000	24575	0.0200	0.0194	M
1	3.486	3.486	0.000	16297	0.0200	0.0198	M
1	3.588	3.588	0.000	15761	0.0200	0.0195	M
1	3.793	3.793	0.000	20943	0.0200	0.0197	M
		Average of Peak Amounts =				0.0195	
2	2.631	2.631	0.000	75287	0.0200	0.0195	
2	2.743	2.743	0.000	43441	0.0200	0.0197	
2	3.110	3.110	0.000	32179	0.0200	0.0194	
2	3.346	3.346	0.000	55935	0.0200	0.0219	
2	3.397	3.397	0.000	20956	0.0200	0.0196	
		Average of Peak Amounts =				0.0200	
						RPD = 2.43	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							M
1	5.773	5.773	0.000	78633	0.0200	0.0201	M
1	5.823	5.823	0.000	73321	0.0200	0.0203	M
1	6.108	6.108	0.000	75079	0.0200	0.0203	M
1	6.310	6.310	0.000	31871	0.0200	0.0199	M
1	6.758	6.758	0.000	183632	0.0200	0.0202	M
		Average of Peak Amounts =				0.0201	
2	5.220	5.220	0.000	105035	0.0200	0.0206	
2	5.258	5.258	0.000	92893	0.0200	0.0206	
2	5.485	5.485	0.000	84467	0.0200	0.0207	
2	5.665	5.665	0.000	88103	0.0200	0.0211	
2	5.990	5.990	0.000	341852	0.0200	0.0211	
		Average of Peak Amounts =				0.0208	
						RPD = 3.25	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00005 Amount Added: 0.25 Units: mL

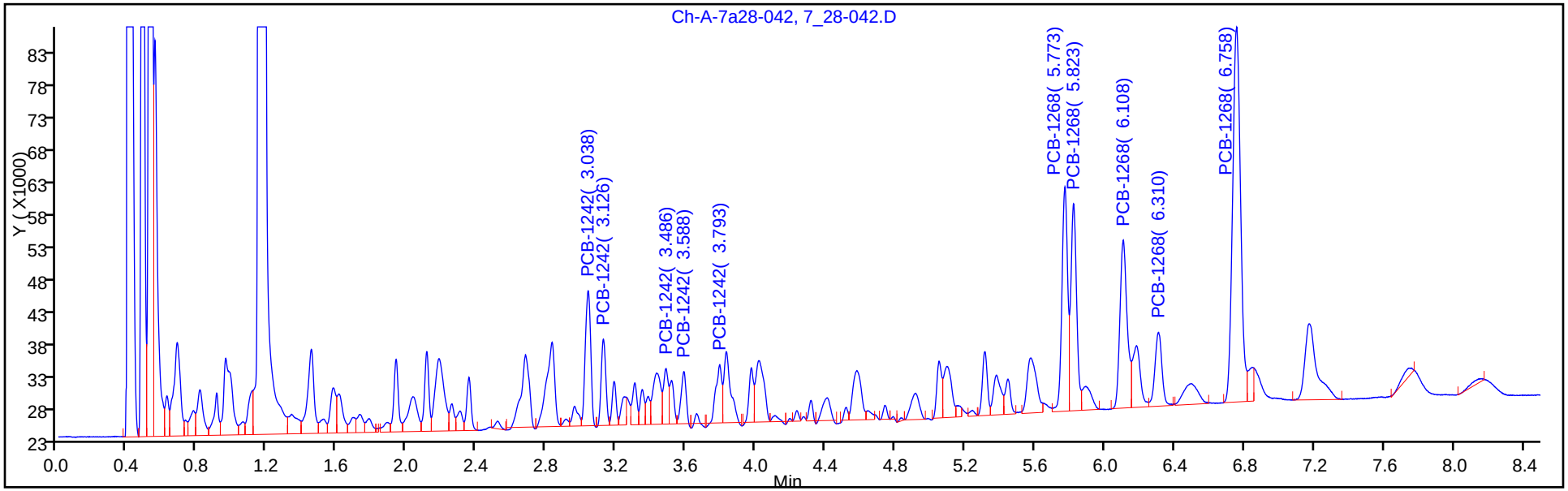
Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

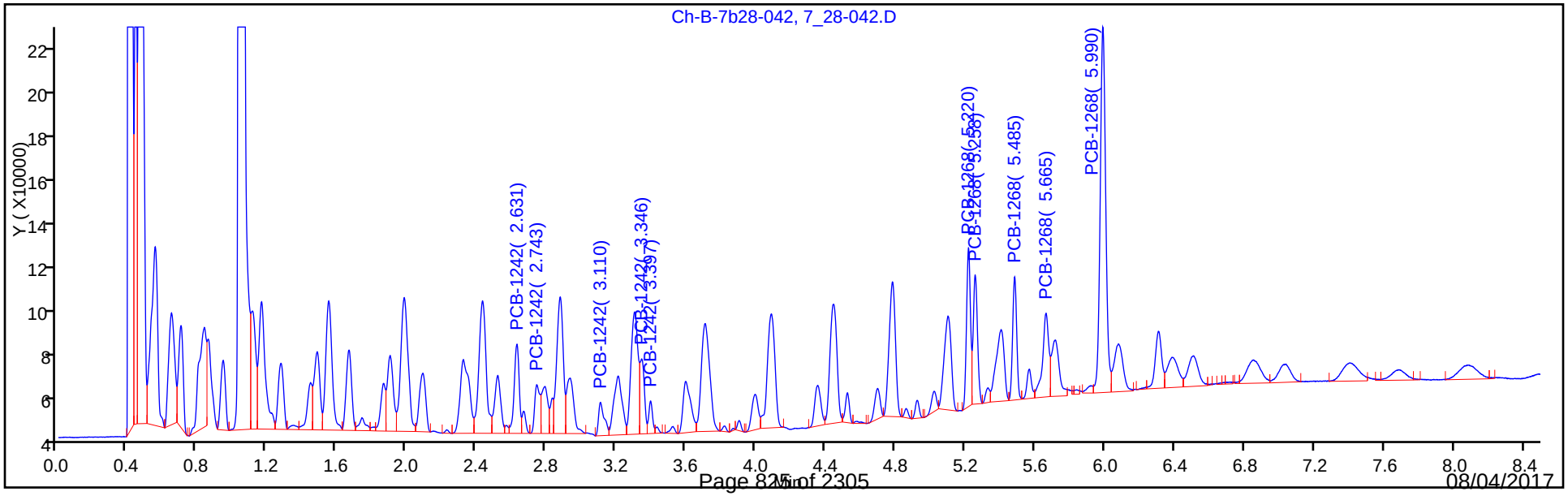
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date:	28-Mar-2017 18:35:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date: 28-Mar-2017 18:35:31 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

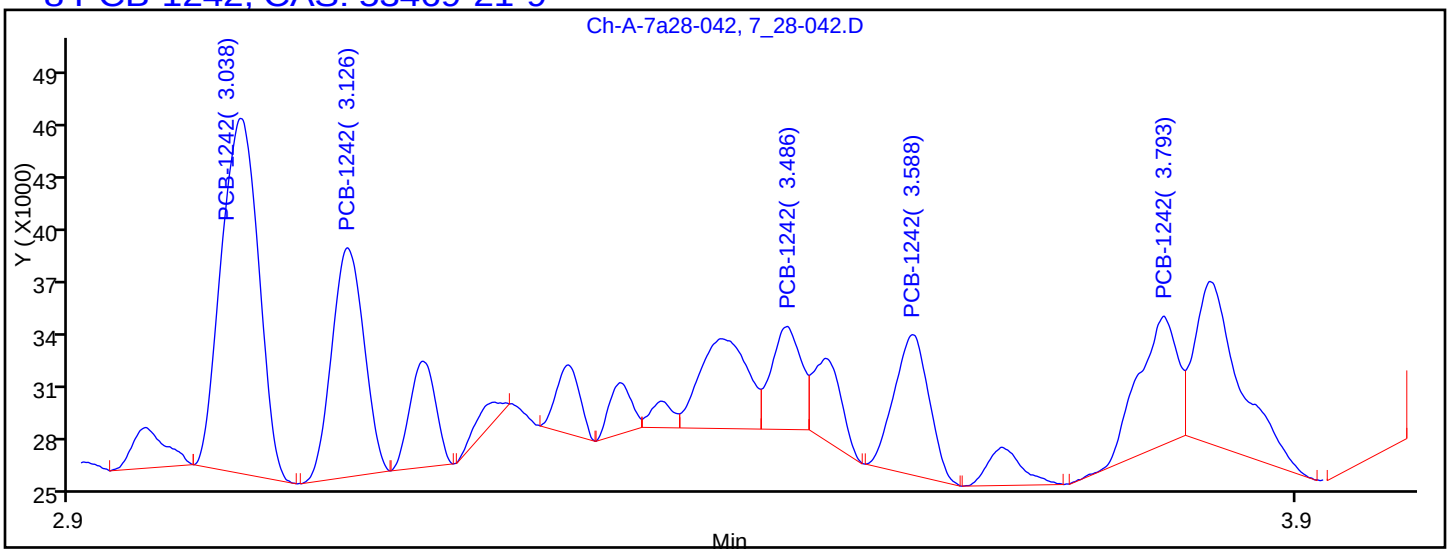
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 29

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

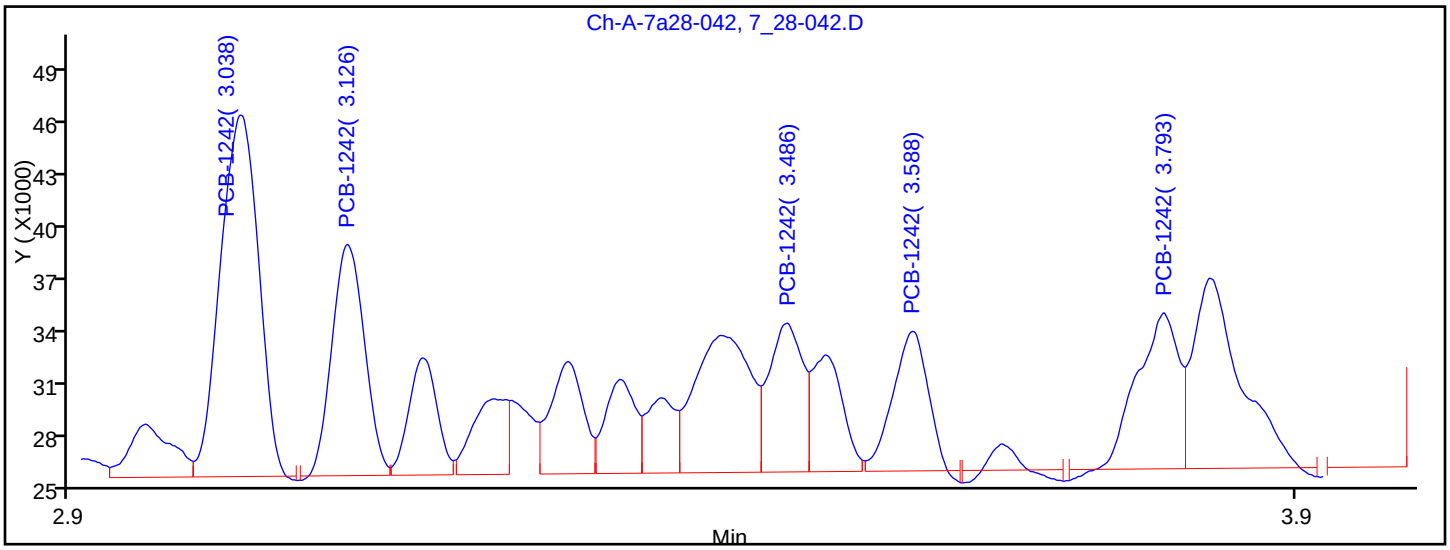
Column: Detector Ch-A-7A136

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.038	Response = 43410
3.126	Response = 24176
3.486	Response = 10116
3.588	Response = 15996
3.793	Response = 16854



Manual Integration Results

3.038	Response = 45024	M
3.126	Response = 24575	M
3.486	Response = 16297	M
3.588	Response = 15761	M
3.793	Response = 20943	M

Reviewer: owenj, 29-Mar-2017 10:26:23

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date: 28-Mar-2017 18:35:31 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

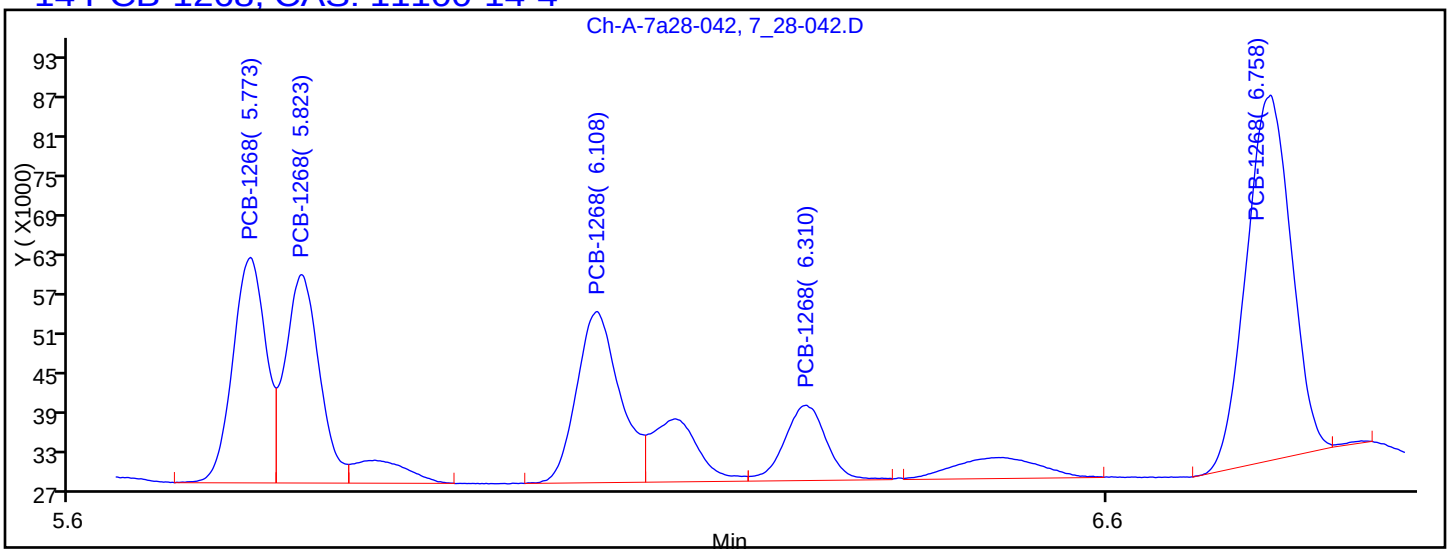
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 29

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

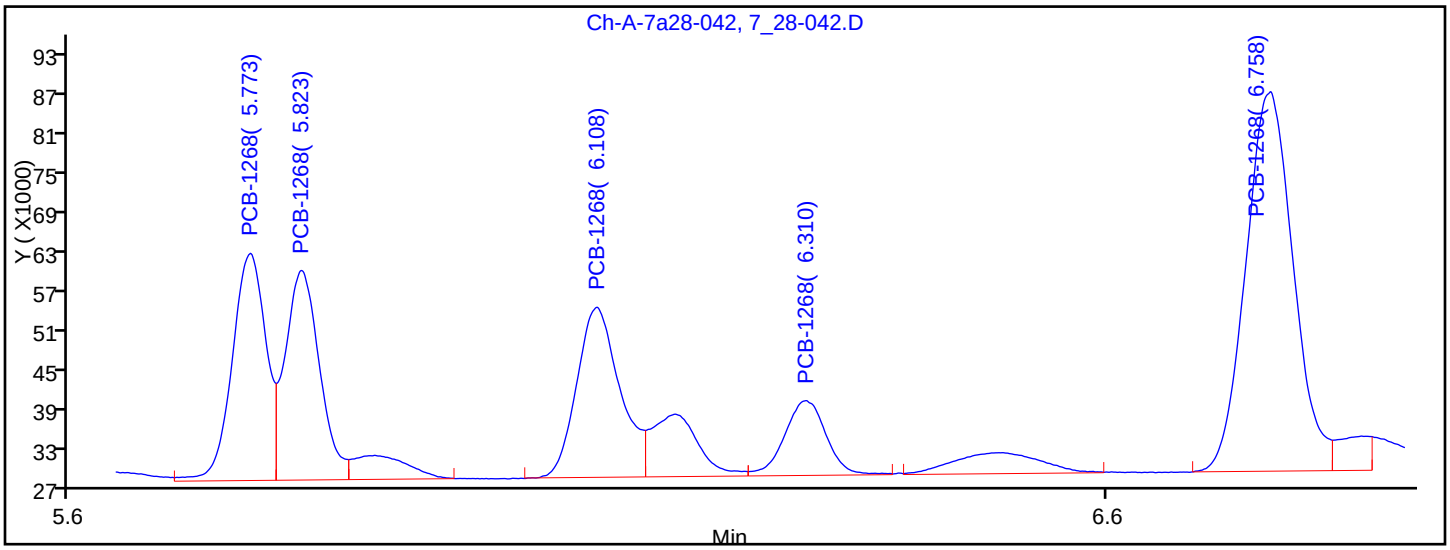
Column: Detector Ch-A-7A136

14 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.773	Response = 76082
5.823	Response = 72150
6.108	Response = 75559
6.310	Response = 32088
6.758	Response = 166513



Manual Integration Results

5.773	Response = 78633	M
5.823	Response = 73321	M
6.108	Response = 75079	M
6.310	Response = 31871	M
6.758	Response = 183632	M

Reviewer: owenj, 29-Mar-2017 10:26:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	0.0859	0.0614	0.0583			Lin1	0.0006	0.0584							1.0000		0.9900
PCB-1242 Peak 2	0.0496	0.0233	0.0219			Lin1	0.0006	0.0218							1.0000		0.9900
PCB-1242 Peak 3	0.0367	0.0281	0.0266			Lin1	0.0002	0.0267							1.0000		0.9900
PCB-1242 Peak 4	0.0639	0.0173	0.0187			Lin1	0.0009	0.0177							0.9960		0.9900
PCB-1242 Peak 5	0.0239	0.0180	0.0172			Lin1	0.0001	0.0172							1.0000		0.9900
PCB-1268 Peak 1	0.1199	0.1028	0.1081			Lin1	0.0002	0.1069							1.0000		0.9900
PCB-1268 Peak 2	0.1060	0.0948	0.0994			Lin1	0.0001	0.0984							1.0000		0.9900
PCB-1268 Peak 3	0.0964	0.0798	0.0842			Lin1	0.0002	0.0832							0.9990		0.9900
PCB-1268 Peak 4	0.1006	0.0348	0.0360			Lin1	0.0013	0.0348							0.9990		0.9900
PCB-1268 Peak 5	0.3903	0.2684	0.2904			Lin1	0.0018	0.2846							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	75287	1589338	6001083			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	43441	603453	2261171			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	32179	728642	2736567			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	55935	447304	1921262			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	20956	464875	1766998			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Lin1	105035	2662043	11132269			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Lin1	92893	2453043	10240144			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Lin1	84467	2066721	8678923			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Lin1	88103	901567	3712088			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Lin1	341852	6947966	29910422			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 18:03:31 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:20 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:28:23

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14011659	0.5000	0.5000	
2	1.049	1.049	0.000	25753742	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.037	3.038	-0.001	3730845	2.00	1.98	a
1	3.123	3.126	-0.003	1381712	2.00	1.98	a
1	3.484	3.486	-0.002	1064743	2.00	1.99	a
1	3.587	3.588	-0.001	1259668	2.00	1.98	a
1	3.792	3.793	-0.001	1801893	2.00	1.99	a
		Average of Peak Amounts =				1.99	
2	2.630	2.631	-0.001	6001083	2.00	1.98	
2	2.740	2.743	-0.003	2261171	2.00	1.99	
2	3.108	3.110	-0.002	2736567	2.00	1.98	
2	3.351	3.346	0.005	1921262	2.00	2.06	a
2	3.396	3.397	-0.001	1766998	2.00	1.99	a
		Average of Peak Amounts =				2.00	
						RPD = 0.77	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	5975368	2.00	2.00	a
1	5.822	5.823	0.000	5541707	2.00	2.01	a
1	6.107	6.108	-0.001	4607641	2.00	2.01	a
1	6.309	6.310	-0.001	2051179	2.00	2.00	a
1	6.757	6.758	-0.001	14926402	2.00	2.01	a
		Average of Peak Amounts =				2.00	
2	5.220	5.220	0.000	11132269	2.00	2.02	a
2	5.259	5.258	0.001	10240144	2.00	2.02	a
2	5.483	5.485	-0.002	8678923	2.00	2.02	a
2	5.664	5.665	-0.001	3712088	2.00	2.04	a
2	5.991	5.990	0.001	29910422	2.00	2.03	a
		Average of Peak Amounts =				2.03	
						RPD = 1.06	

Reagents:

42-68w/IS@2.0_00005 Amount Added: 0.25 Units: mL

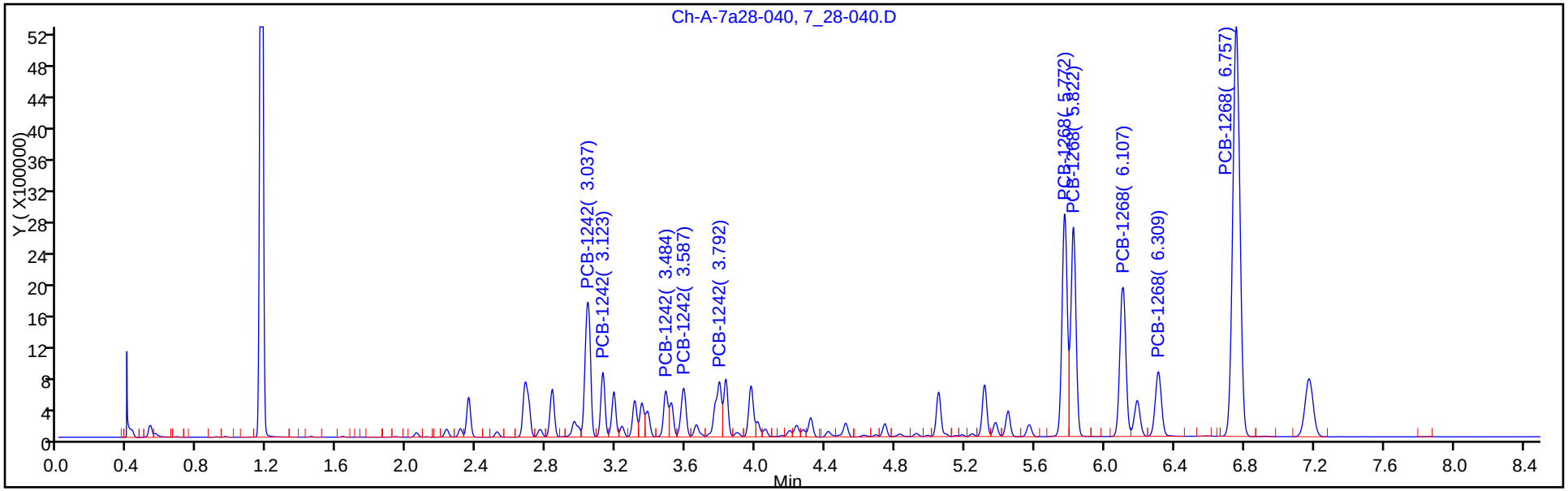
Report Date: 29-Mar-2017 10:55:21 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

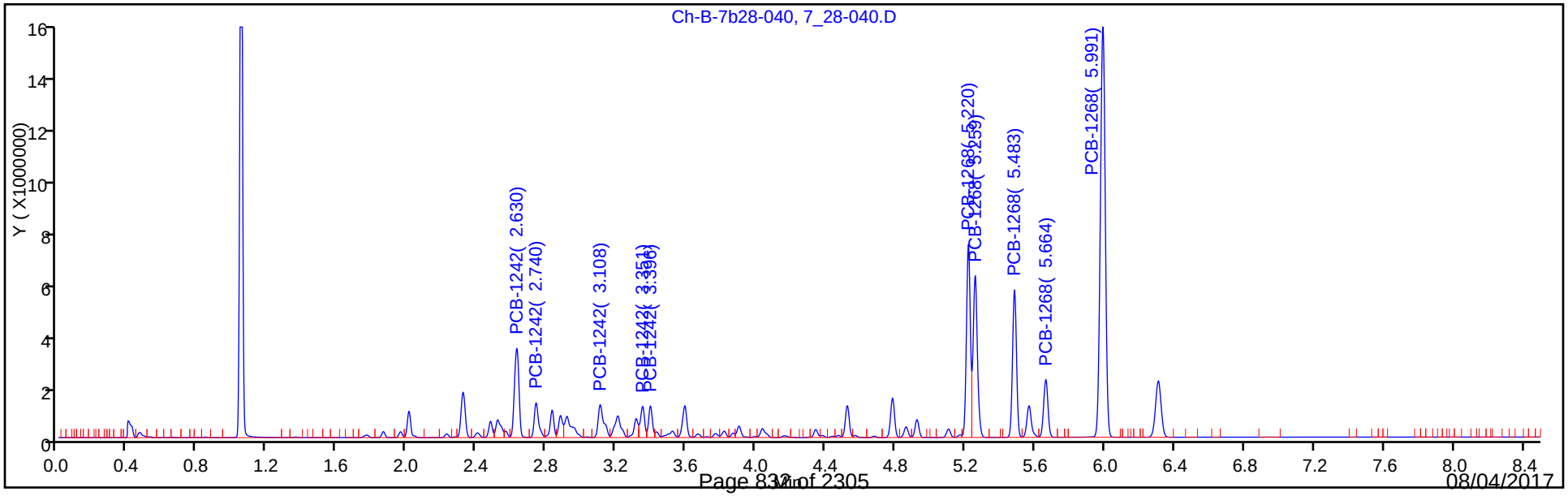
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D

Injection Date:	28-Mar-2017 18:03:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 18:19:33 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:24 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:26:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	13954704	0.5000	0.5000	
2	1.050	1.049	0.001	25885897	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.038	3.038	0.000	988715	0.5000	0.5214	
1	3.123	3.126	-0.004	370241	0.5000	0.5186	
1	3.484	3.486	-0.002	276130	0.5000	0.5082	
1	3.587	3.588	-0.001	331038	0.5000	0.5173	
1	3.792	3.793	-0.001	464108	0.5000	0.5102	
		Average of Peak Amounts =				0.5151	
2	2.630	2.631	-0.001	1589338	0.5000	0.5157	
2	2.741	2.743	-0.002	603453	0.5000	0.5096	
2	3.109	3.110	-0.001	728642	0.5000	0.5190	
2	3.353	3.346	0.006	447304	0.5000	0.4384	
2	3.397	3.397	0.000	464875	0.5000	0.5139	
		Average of Peak Amounts =				0.4993	
						RPD = 3.12	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	1500432	0.5000	0.4979	
1	5.823	5.823	0.000	1364645	0.5000	0.4899	
1	6.105	6.108	-0.003	1144877	0.5000	0.4894	
1	6.310	6.310	0.000	526604	0.5000	0.5037	
1	6.758	6.758	0.000	3708198	0.5000	0.4947	
		Average of Peak Amounts =				0.4951	
2	5.221	5.220	0.001	2662043	0.5000	0.4792	
2	5.259	5.258	0.001	2453043	0.5000	0.4804	
2	5.484	5.485	-0.001	2066721	0.5000	0.4772	
2	5.664	5.665	-0.001	901567	0.5000	0.4639	
2	5.991	5.990	0.001	6947966	0.5000	0.4651	
		Average of Peak Amounts =				0.4732	
						RPD = 4.53	

Reagents:

42-68w/IS@0.5_00008 Amount Added: 0.25 Units: mL

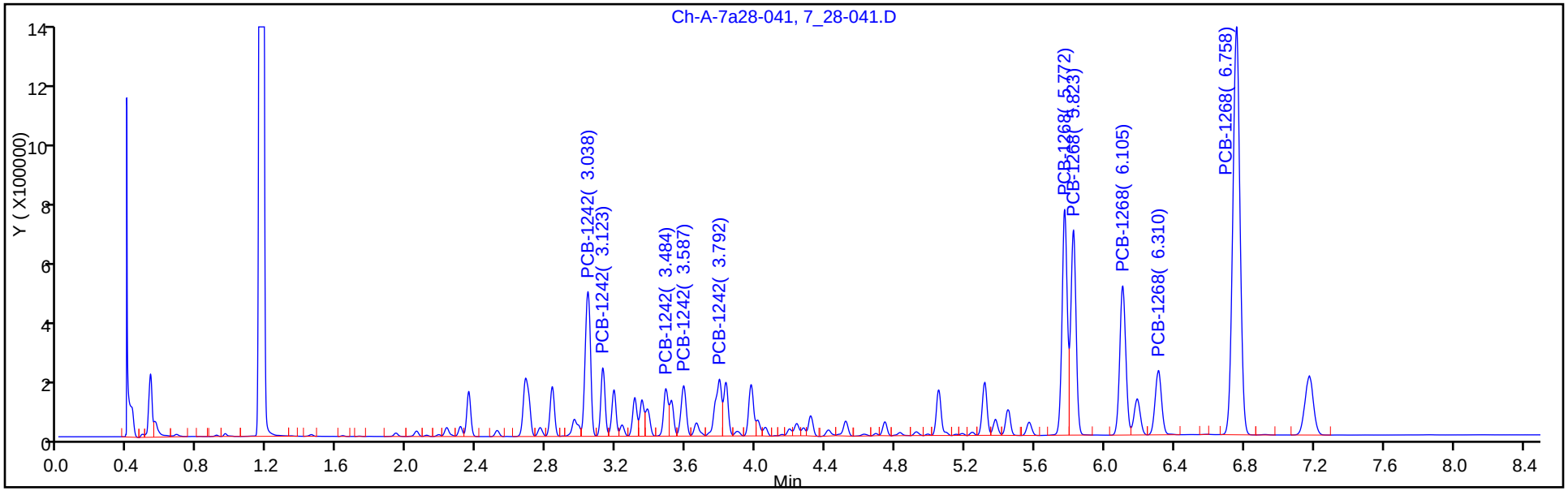
Report Date: 29-Mar-2017 10:55:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

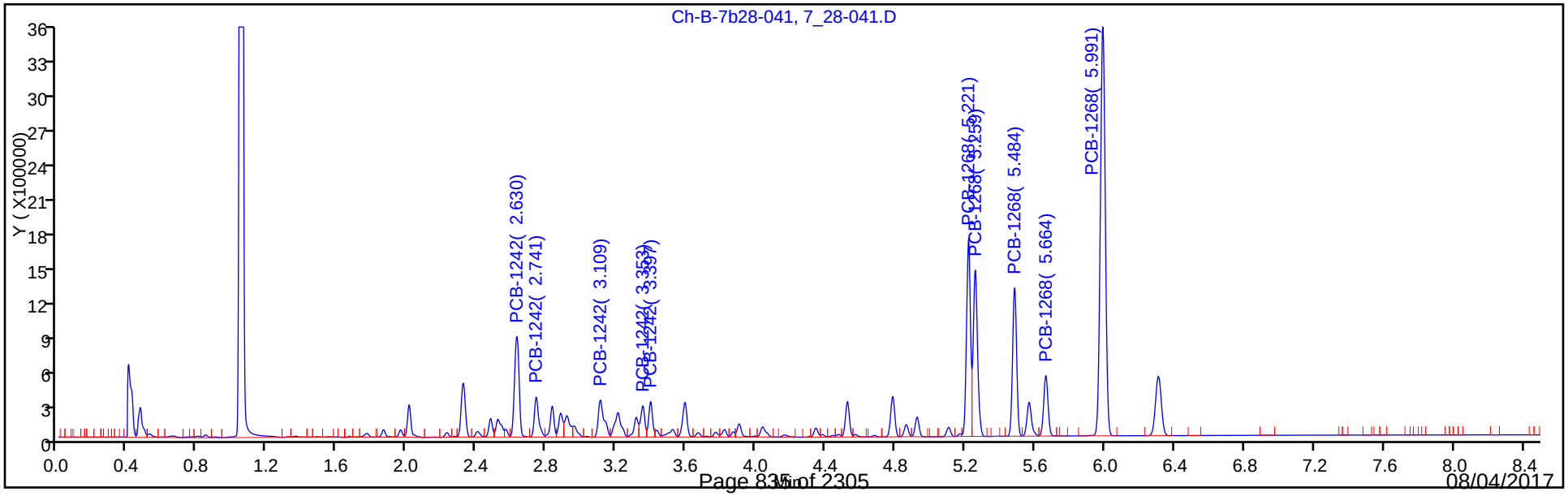
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D

Injection Date:	28-Mar-2017 18:19:33	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 18:35:31 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:28 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:38:32

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	12650899	0.5000	0.5000	
2	1.050	1.050	0.000	21899156	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	3.038	3.038	0.000	45024	0.0200	0.0194	M
1	3.126	3.126	0.000	24575	0.0200	0.0194	M
1	3.486	3.486	0.000	16297	0.0200	0.0198	M
1	3.588	3.588	0.000	15761	0.0200	0.0195	M
1	3.793	3.793	0.000	20943	0.0200	0.0197	M
		Average of Peak Amounts =				0.0195	
2	2.631	2.631	0.000	75287	0.0200	0.0195	
2	2.743	2.743	0.000	43441	0.0200	0.0197	
2	3.110	3.110	0.000	32179	0.0200	0.0194	
2	3.346	3.346	0.000	55935	0.0200	0.0219	
2	3.397	3.397	0.000	20956	0.0200	0.0196	
		Average of Peak Amounts =				0.0200	
						RPD = 2.43	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							M
1	5.773	5.773	0.000	78633	0.0200	0.0201	M
1	5.823	5.823	0.000	73321	0.0200	0.0203	M
1	6.108	6.108	0.000	75079	0.0200	0.0203	M
1	6.310	6.310	0.000	31871	0.0200	0.0199	M
1	6.758	6.758	0.000	183632	0.0200	0.0202	M
		Average of Peak Amounts =				0.0201	
2	5.220	5.220	0.000	105035	0.0200	0.0206	
2	5.258	5.258	0.000	92893	0.0200	0.0206	
2	5.485	5.485	0.000	84467	0.0200	0.0207	
2	5.665	5.665	0.000	88103	0.0200	0.0211	
2	5.990	5.990	0.000	341852	0.0200	0.0211	
		Average of Peak Amounts =				0.0208	
						RPD = 3.25	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00005 Amount Added: 0.25 Units: mL

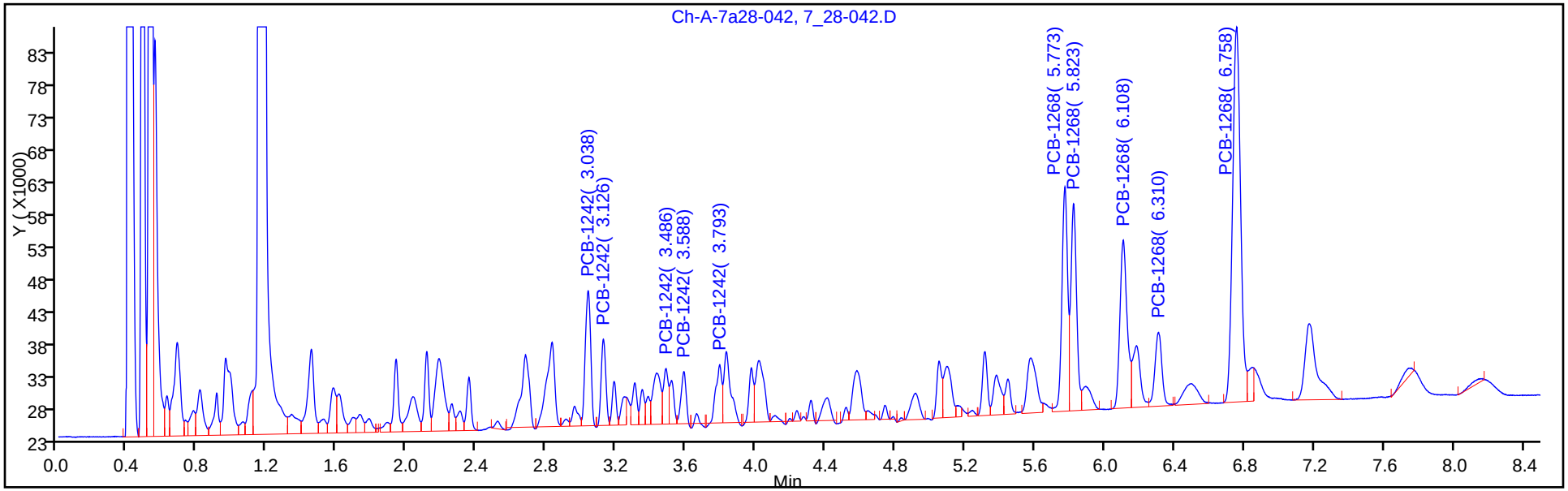
Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

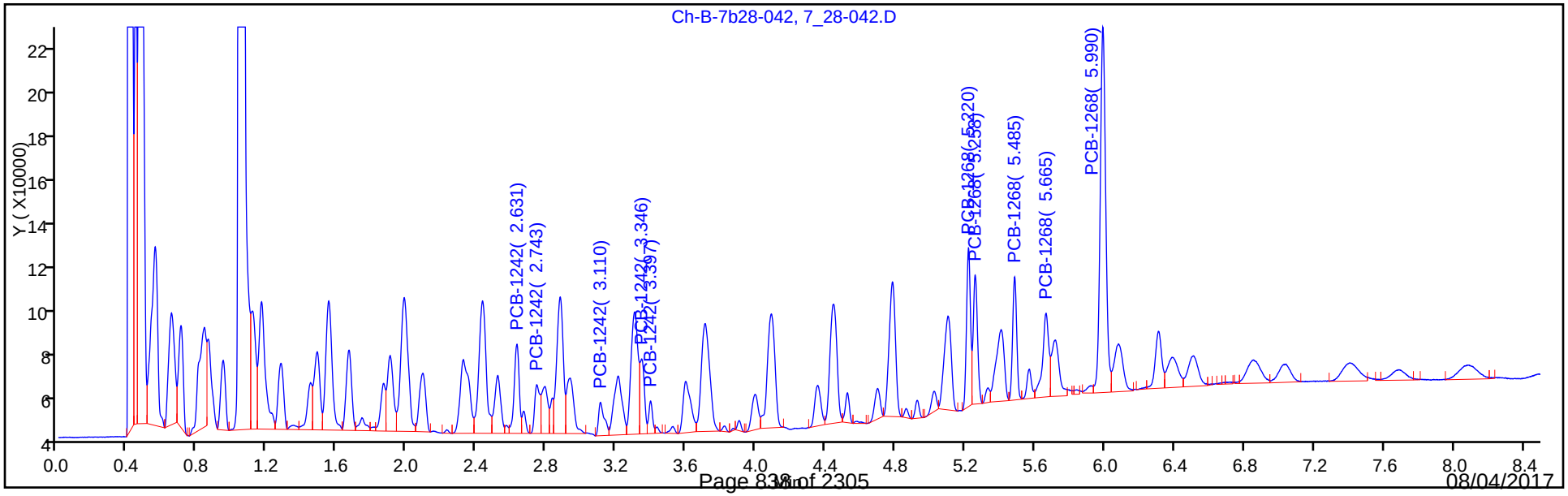
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date:	28-Mar-2017 18:35:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	0.0619	0.0435	0.0433			Lin1	0.0004	0.0430							1.0000		0.9900
PCB-1248 Peak 2	0.0466	0.0335	0.0357			Lin1	0.0002	0.0351							0.9990		0.9900
PCB-1248 Peak 3	0.0713	0.0531	0.0594			Lin1	0.0002	0.0580							0.9980		0.9900
PCB-1248 Peak 4	0.0550	0.0388	0.0372			Lin1	0.0004	0.0372							1.0000		0.9900
PCB-1248 Peak 5	0.0453	0.0326	0.0371			Lin1	0.0001	0.0361							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	34899	623314	2073540			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Lin1	26245	479840	1710687			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Lin1	40194	762025	2845233			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Lin1	31030	556648	1779509			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Lin1	25536	468315	1776016			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 19:07:11 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:38 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:46:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	11971661	0.5000	0.5000	
2	1.050	1.050	0.000	21010342	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.486	3.486	0.000	2073540	2.00	2.00	a
1	3.588	3.587	0.001	1710687	2.00	2.03	a
1	3.793	3.793	0.000	2845233	2.00	2.04	a
1	3.830	3.830	0.000	1779509	2.00	1.99	a
1	3.973	3.973	-0.001	1776016	2.00	2.05	a
		Average of Peak Amounts =				2.02	
2	3.108	3.108	0.000	2387904	2.00	2.02	
2	3.210	3.209	0.001	2152906	2.00	1.98	
2	3.353	3.351	0.001	2199586	2.00	1.95	a
2	3.398	3.397	0.001	2203362	2.00	2.03	a
2	3.593	3.593	0.000	2534395	2.00	2.02	
		Average of Peak Amounts =				2.00	
						RPD = 1.12	

Reagents:

1248w/IS@ 2.0_00005 Amount Added: 0.25 Units: mL

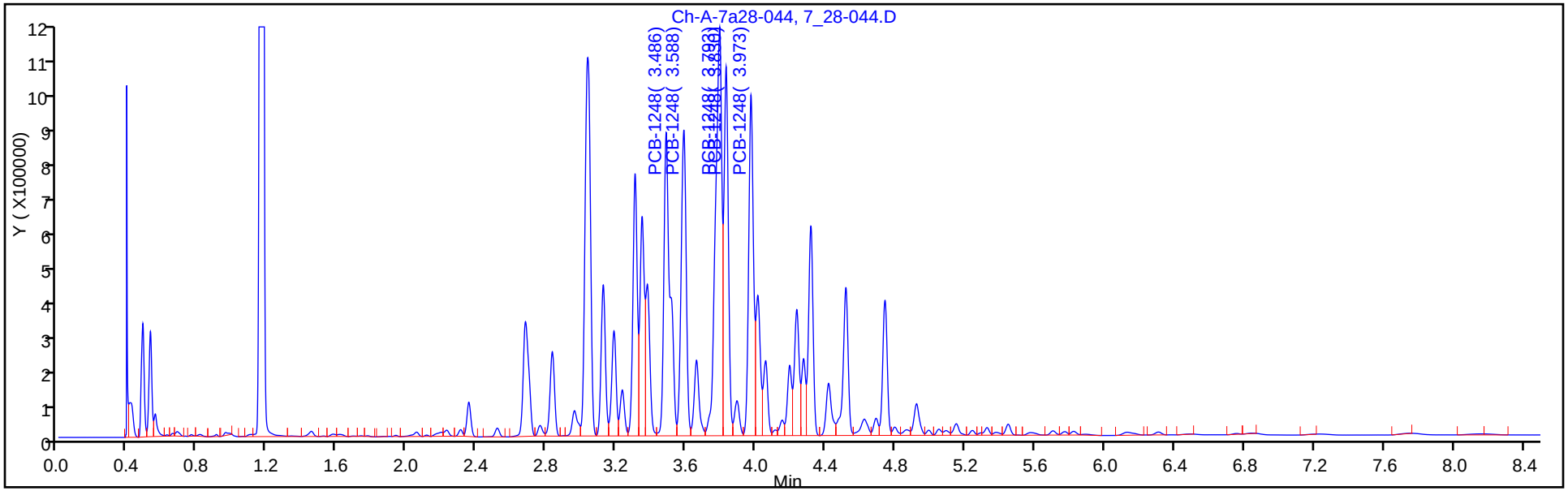
Report Date: 29-Mar-2017 10:55:38 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

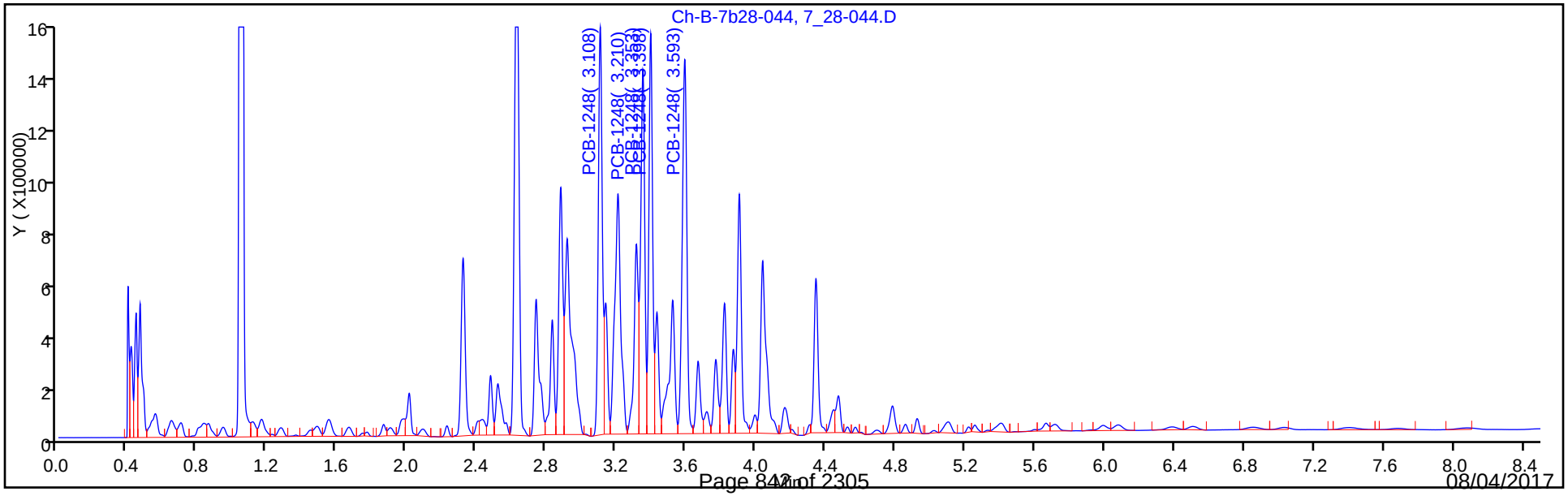
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D

Injection Date:	28-Mar-2017 19:07:11	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 19:23:08 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:42 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14344670	0.5000	0.5000	
2	1.049	1.050	-0.001	24914143	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.485	3.486	-0.001	623314	0.5000	0.4962	
1	3.587	3.587	0.000	479840	0.5000	0.4706	
1	3.793	3.793	0.000	762025	0.5000	0.4544	
1	3.830	3.830	0.000	556648	0.5000	0.5118	
1	3.973	3.973	0.000	468315	0.5000	0.4484	
		Average of Peak Amounts =				0.4763	
2	3.108	3.108	0.000	678573	0.5000	0.4799	
2	3.209	3.209	0.000	674320	0.5000	0.5171	
2	3.353	3.351	0.001	756594	0.5000	0.5558	
2	3.398	3.397	0.001	605917	0.5000	0.4677	
2	3.593	3.593	0.000	714562	0.5000	0.4772	
		Average of Peak Amounts =				0.4995	
						RPD = 4.77	

Reagents:

1248w/IS@ 0.5_00008 Amount Added: 0.25 Units: mL

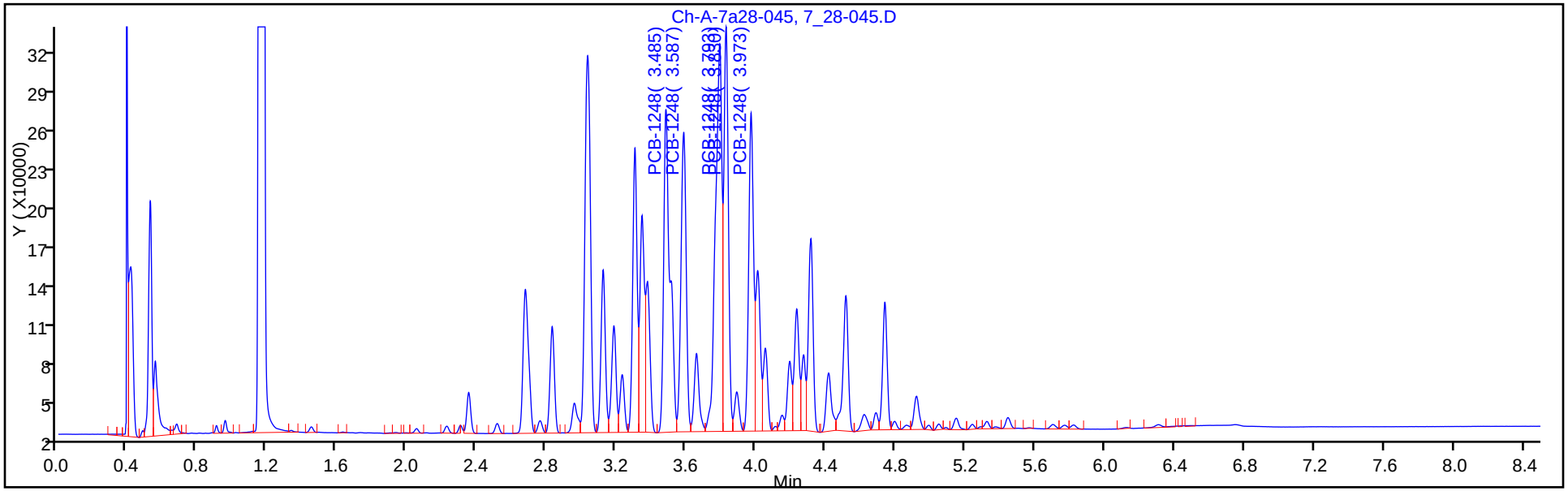
Report Date: 29-Mar-2017 10:55:43 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

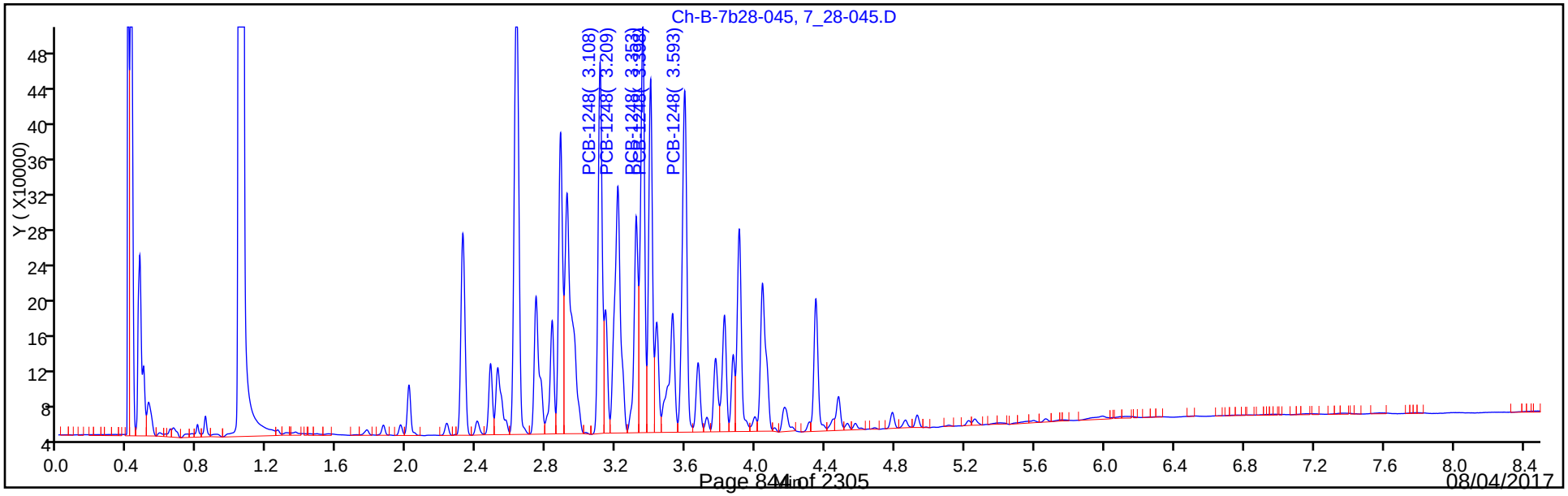
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D

Injection Date:	28-Mar-2017 19:23:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 19:39:13 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:51:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14092234	0.5000	0.5000	
2	1.049	1.049	0.000	25348531	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	3.486	3.486	0.000	34899	0.0200	0.0201	M
1	3.587	3.587	0.000	26245	0.0200	0.0209	M
1	3.793	3.793	0.000	40194	0.0200	0.0214	M
1	3.830	3.830	0.000	31030	0.0200	0.0196	M
1	3.973	3.973	0.000	25536	0.0200	0.0216	M
		Average of Peak Amounts =				0.0207	
2	3.108	3.108	0.000	37011	0.0200	0.0206	M
2	3.209	3.209	0.000	37469	0.0200	0.0195	M
2	3.351	3.351	0.000	41233	0.0200	0.0183	M
2	3.397	3.397	0.000	33226	0.0200	0.0210	M
2	3.593	3.593	0.000	38340	0.0200	0.0207	M
		Average of Peak Amounts =				0.0200	
						RPD = 3.46	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00005 Amount Added: 0.25 Units: mL

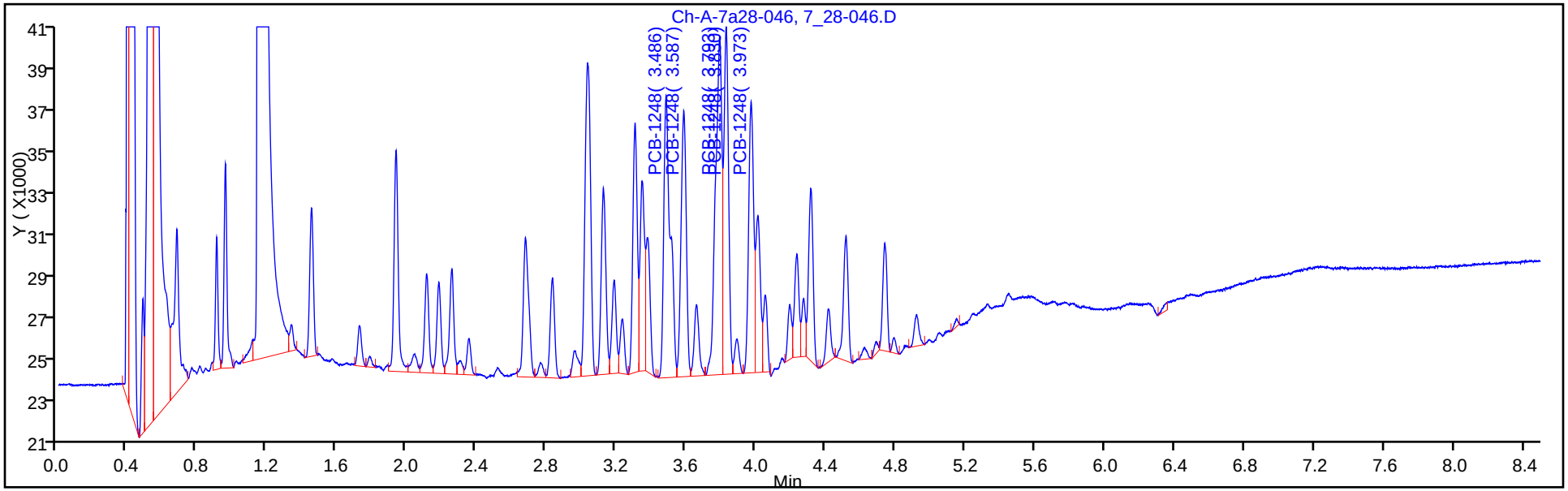
Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

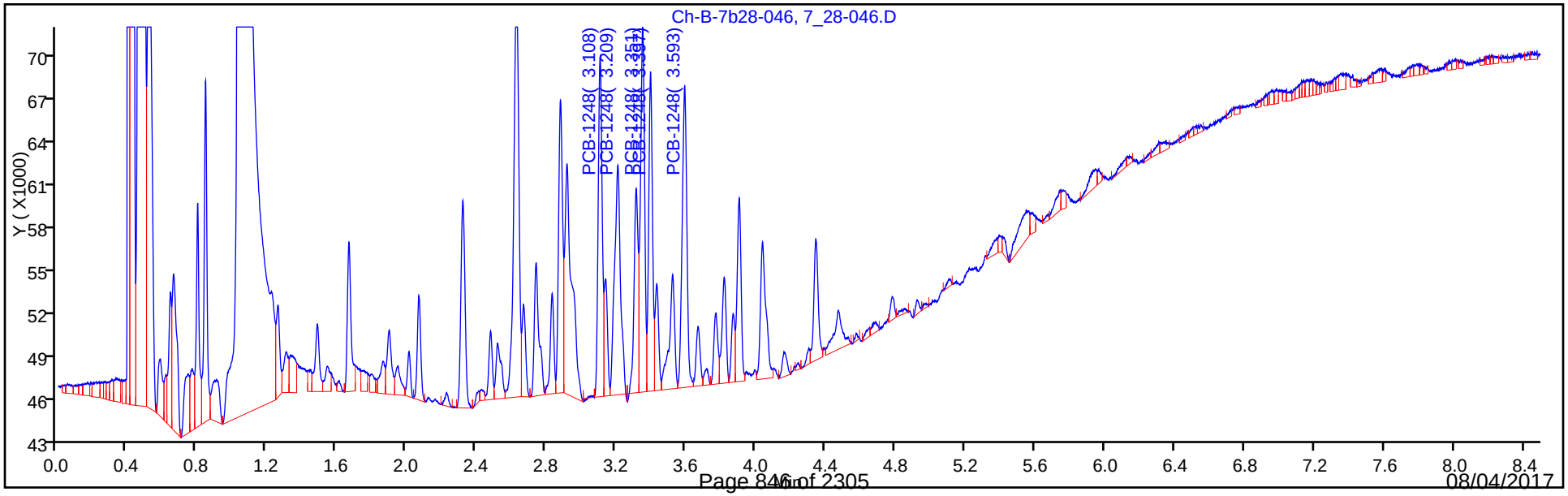
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date:	28-Mar-2017 19:39:13	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date: 28-Mar-2017 19:39:13 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

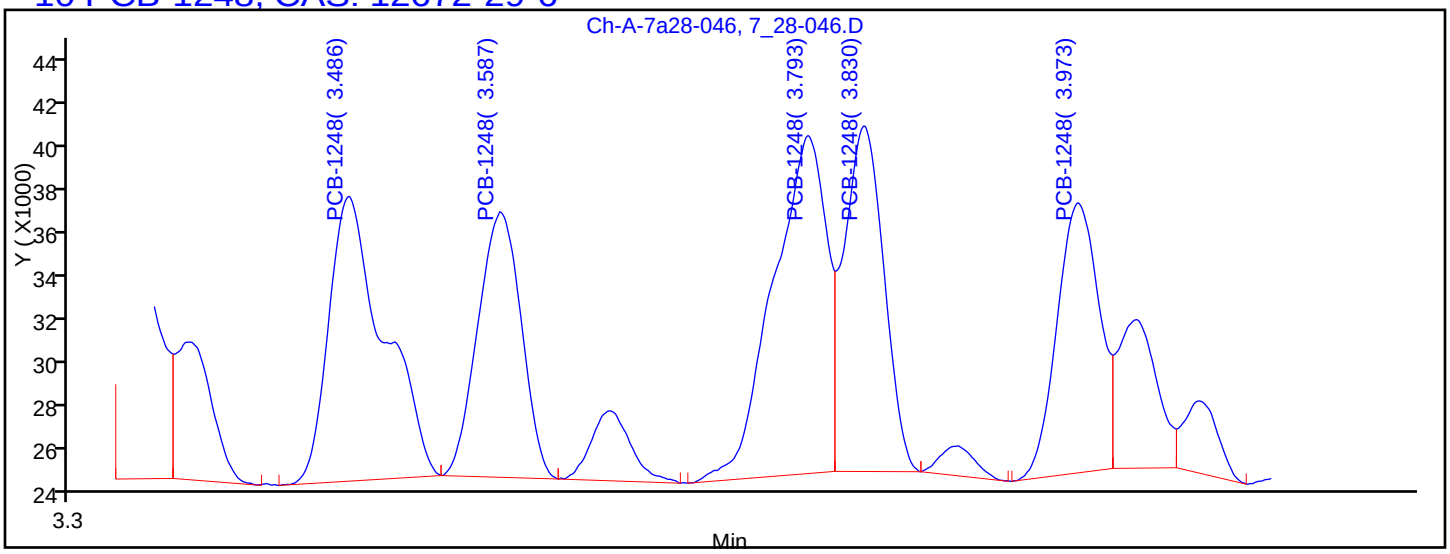
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 33

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

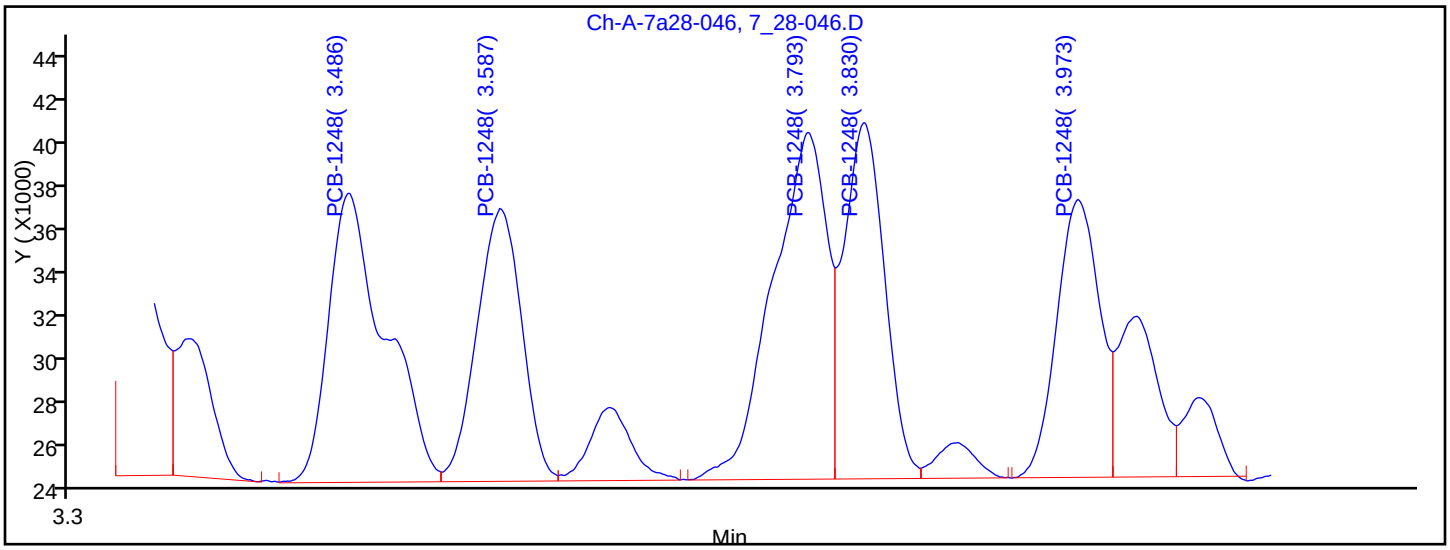
Column: Detector Ch-A-7A136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.486	Response = 33372
3.587	Response = 24654
3.793	Response = 38689
3.830	Response = 29365
3.973	Response = 24436



Manual Integration Results

3.486	Response = 34899	M
3.587	Response = 26245	M
3.793	Response = 40194	M
3.830	Response = 31030	M
3.973	Response = 25536	M

Reviewer: owenj, 29-Mar-2017 10:48:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30061

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	0.0365	0.0272	0.0284			Lin1	0.0002	0.0281							1.0000		0.9900
PCB-1248 Peak 2	0.0370	0.0271	0.0256			Lin1	0.0002	0.0257							1.0000		0.9900
PCB-1248 Peak 3	0.0407	0.0304	0.0262			Lin1	0.0003	0.0267							0.9970		0.9900
PCB-1248 Peak 4	0.0328	0.0243	0.0262			Lin1	0.0001	0.0258							0.9990		0.9900
PCB-1248 Peak 5	0.0378	0.0287	0.0302			Lin1	0.0001	0.0298							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30061

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	37011	678573	2387904			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Lin1	37469	674320	2152906			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Lin1	41233	756594	2199586			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Lin1	33226	605917	2203362			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Lin1	38340	714562	2534395			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 19:07:11 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:38 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:46:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	11971661	0.5000	0.5000	
2	1.050	1.050	0.000	21010342	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.486	3.486	0.000	2073540	2.00	2.00	a
1	3.588	3.587	0.001	1710687	2.00	2.03	a
1	3.793	3.793	0.000	2845233	2.00	2.04	a
1	3.830	3.830	0.000	1779509	2.00	1.99	a
1	3.973	3.973	-0.001	1776016	2.00	2.05	a
		Average of Peak Amounts =				2.02	
2	3.108	3.108	0.000	2387904	2.00	2.02	
2	3.210	3.209	0.001	2152906	2.00	1.98	
2	3.353	3.351	0.001	2199586	2.00	1.95	a
2	3.398	3.397	0.001	2203362	2.00	2.03	a
2	3.593	3.593	0.000	2534395	2.00	2.02	
		Average of Peak Amounts =				2.00	
						RPD = 1.12	

Reagents:

1248w/IS@ 2.0_00005 Amount Added: 0.25 Units: mL

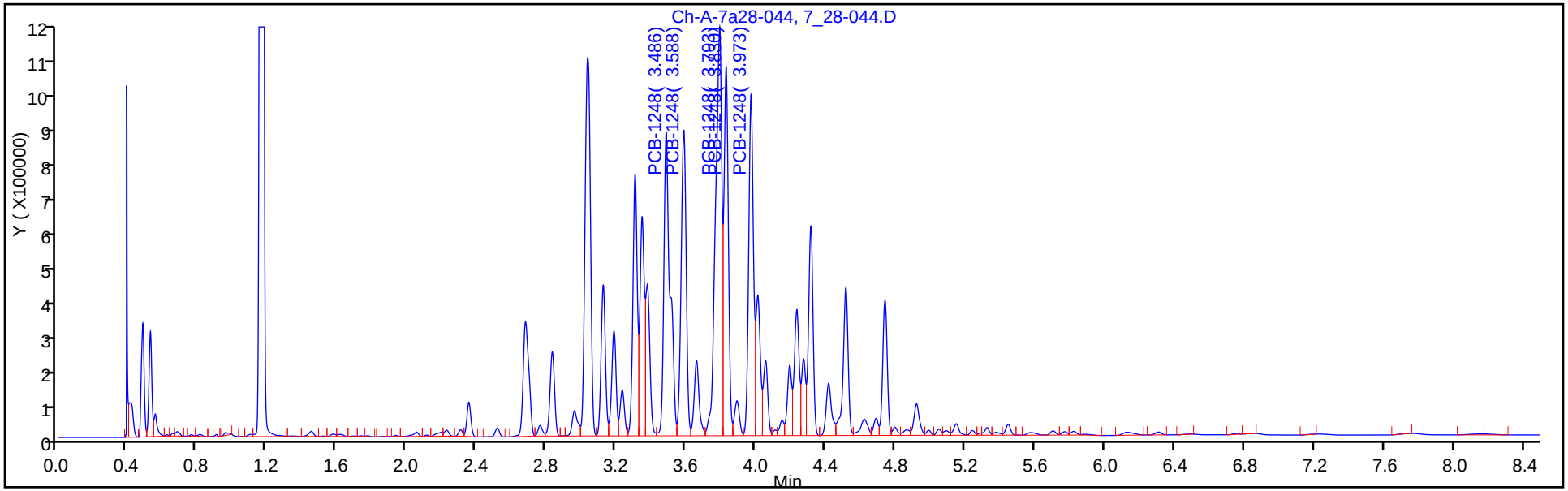
Report Date: 29-Mar-2017 10:55:39 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

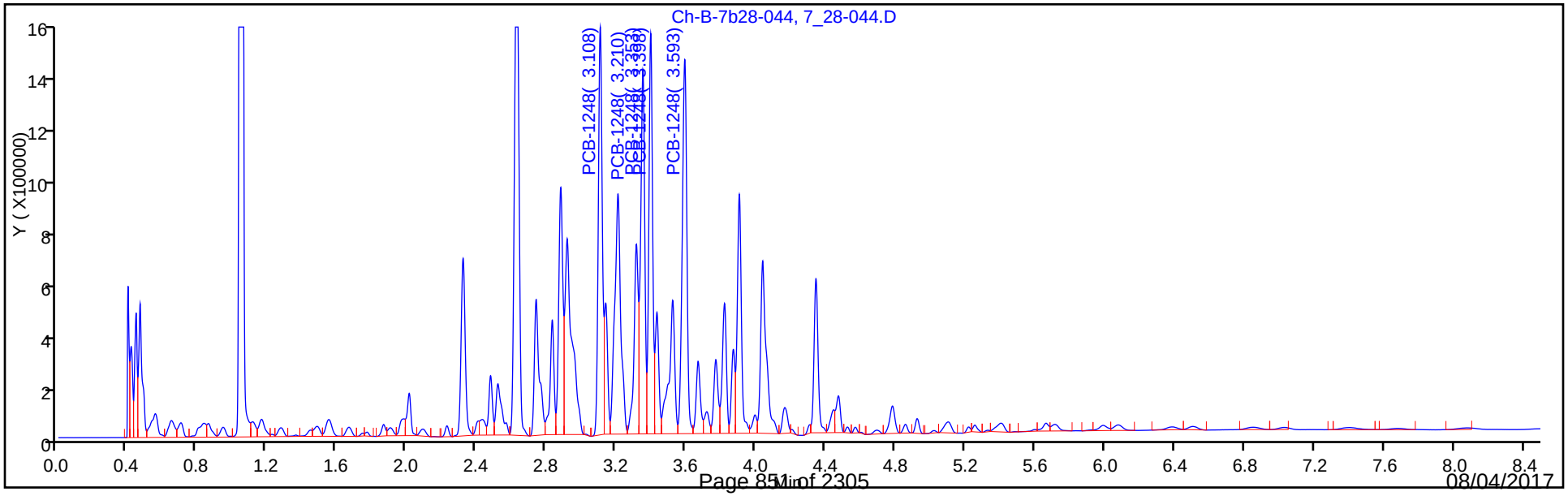
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D

Injection Date:	28-Mar-2017 19:07:11	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 19:23:08 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:42 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14344670	0.5000	0.5000	
2	1.049	1.050	-0.001	24914143	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.485	3.486	-0.001	623314	0.5000	0.4962	
1	3.587	3.587	0.000	479840	0.5000	0.4706	
1	3.793	3.793	0.000	762025	0.5000	0.4544	
1	3.830	3.830	0.000	556648	0.5000	0.5118	
1	3.973	3.973	0.000	468315	0.5000	0.4484	
		Average of Peak Amounts =				0.4763	
2	3.108	3.108	0.000	678573	0.5000	0.4799	
2	3.209	3.209	0.000	674320	0.5000	0.5171	
2	3.353	3.351	0.001	756594	0.5000	0.5558	
2	3.398	3.397	0.001	605917	0.5000	0.4677	
2	3.593	3.593	0.000	714562	0.5000	0.4772	
		Average of Peak Amounts =				0.4995	
						RPD = 4.77	

Reagents:

1248w/IS@ 0.5_00008 Amount Added: 0.25 Units: mL

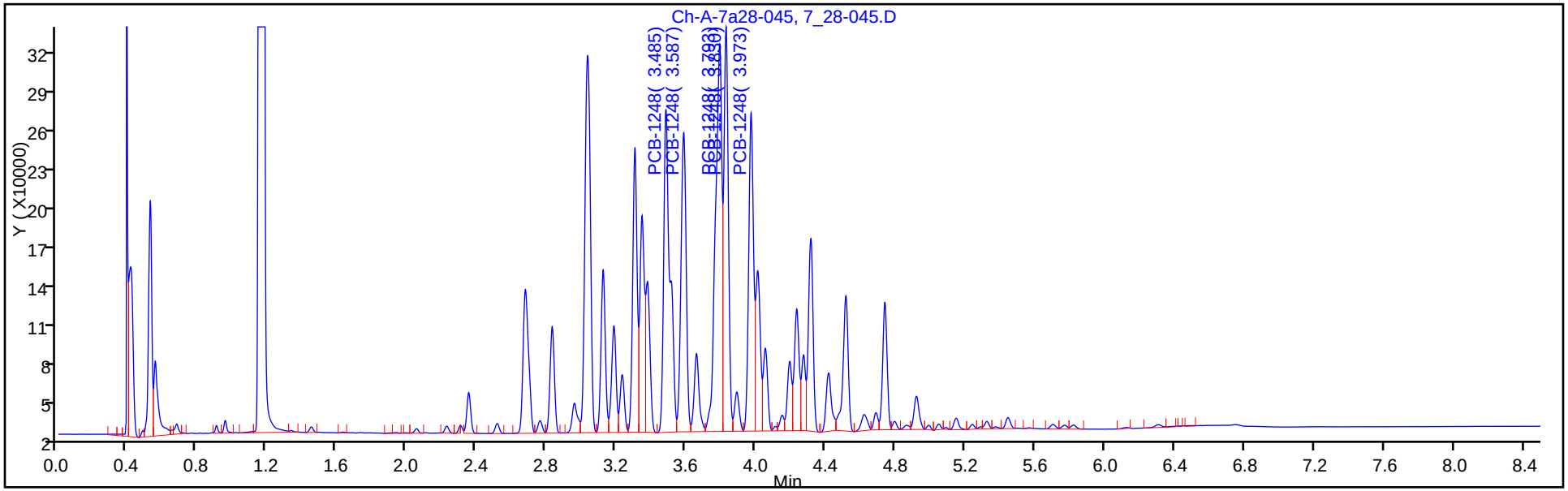
Report Date: 29-Mar-2017 10:55:43 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

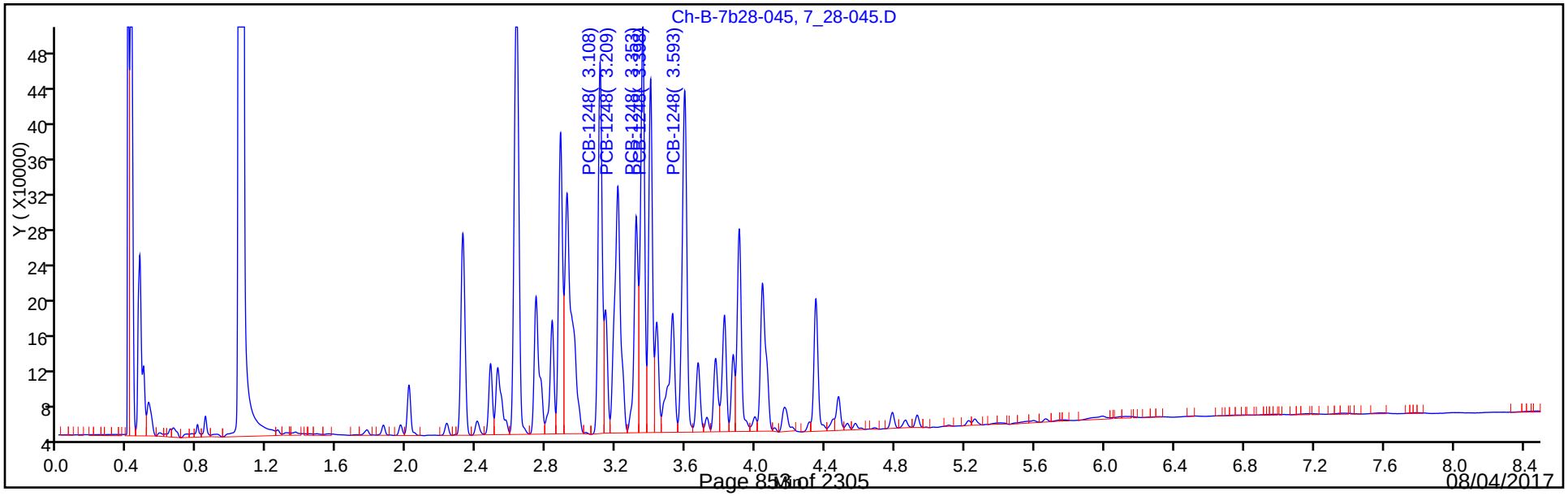
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D

Injection Date:	28-Mar-2017 19:23:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 19:39:13 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:51:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14092234	0.5000	0.5000	
2	1.049	1.049	0.000	25348531	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	3.486	3.486	0.000	34899	0.0200	0.0201	M
1	3.587	3.587	0.000	26245	0.0200	0.0209	M
1	3.793	3.793	0.000	40194	0.0200	0.0214	M
1	3.830	3.830	0.000	31030	0.0200	0.0196	M
1	3.973	3.973	0.000	25536	0.0200	0.0216	M
		Average of Peak Amounts =				0.0207	
2	3.108	3.108	0.000	37011	0.0200	0.0206	M
2	3.209	3.209	0.000	37469	0.0200	0.0195	M
2	3.351	3.351	0.000	41233	0.0200	0.0183	M
2	3.397	3.397	0.000	33226	0.0200	0.0210	M
2	3.593	3.593	0.000	38340	0.0200	0.0207	M
		Average of Peak Amounts =				0.0200	
						RPD = 3.46	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00005 Amount Added: 0.25 Units: mL

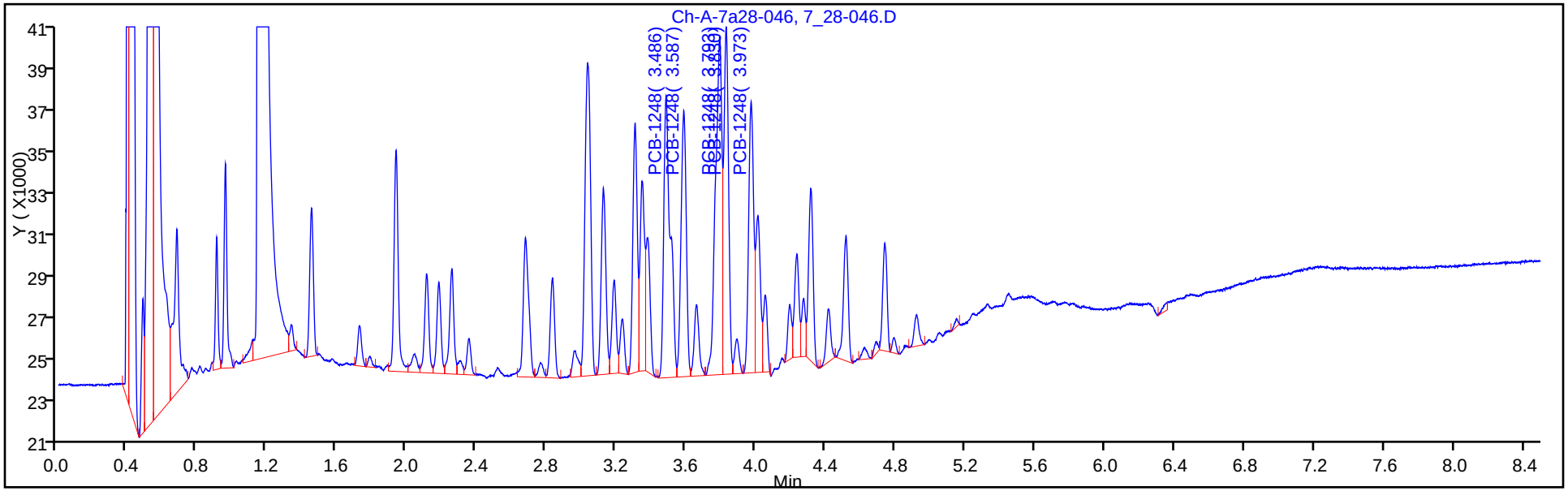
Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

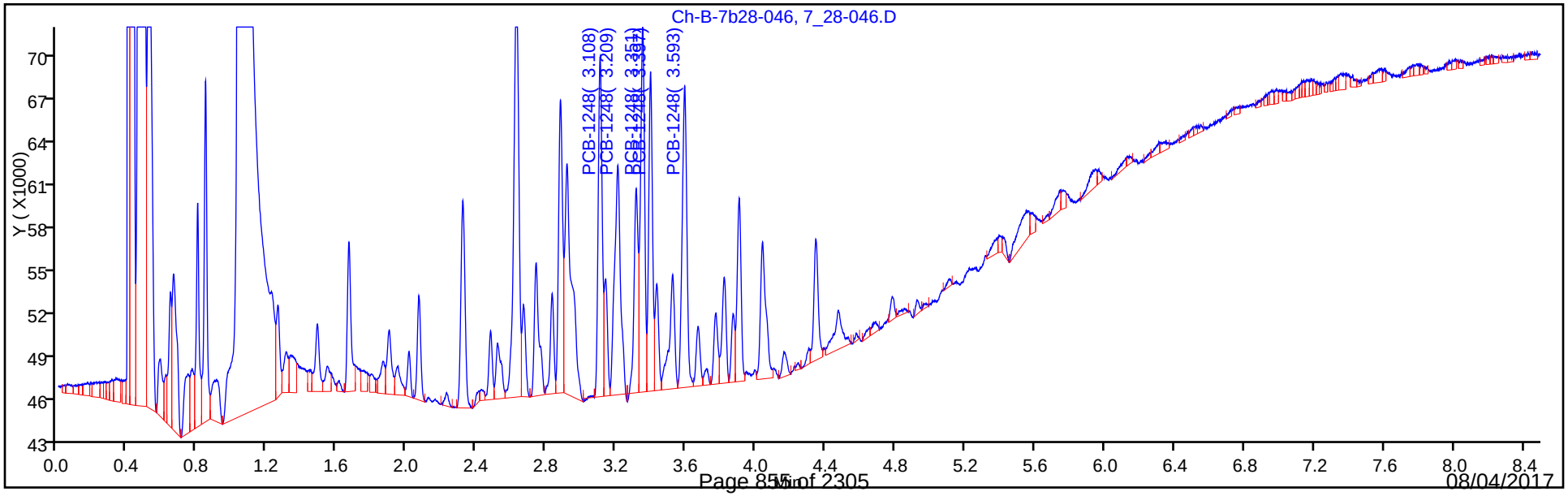
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date:	28-Mar-2017 19:39:13	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date: 28-Mar-2017 19:39:13 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

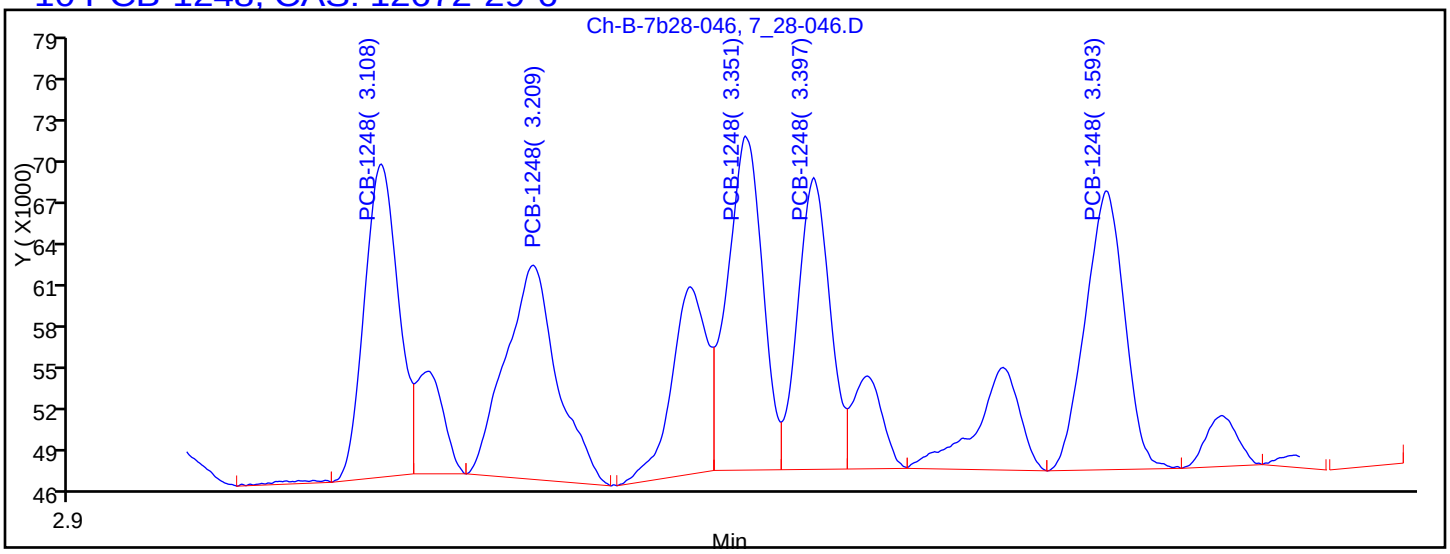
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 33

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

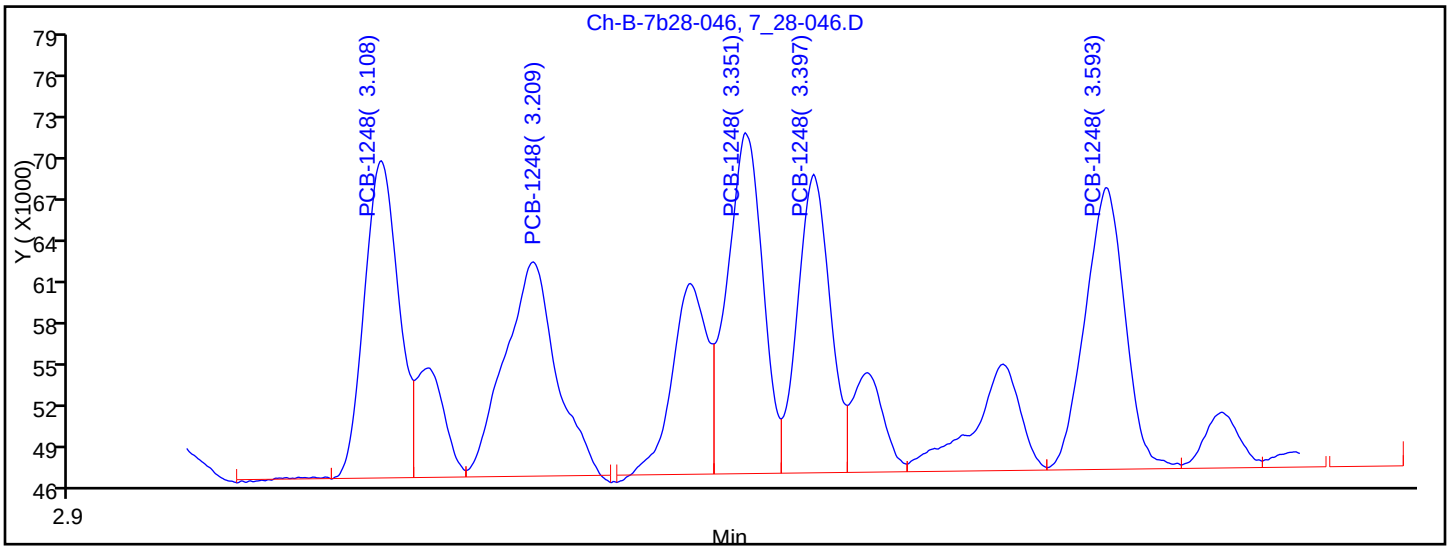
Column: Detector Ch-B-7b136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.108	Response = 36221
3.209	Response = 37652
3.351	Response = 39887
3.397	Response = 31922
3.593	Response = 37171



Manual Integration Results

3.108	Response = 37011	M
3.209	Response = 37469	M
3.351	Response = 41233	M
3.397	Response = 33226	M
3.593	Response = 38340	M

Reviewer: owenj, 29-Mar-2017 10:48:19

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368775/6 Calibration Date: 07/26/2017 11:58

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_36-220.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0419		0.553	0.500	10.7	20.0
PCB-1016 Peak 2	Lin1		0.0258		0.551	0.500	10.2	20.0
PCB-1016 Peak 3	Lin1		0.0921		0.571	0.500	14.3	20.0
PCB-1016 Peak 4	Lin1		0.0363		0.602	0.500	20.4*	20.0
PCB-1016 Peak 5	Lin1		0.0246		0.589	0.500	17.9	20.0
PCB-1260 Peak 1	Lin1		0.0682		0.540	0.500	8.1	20.0
PCB-1260 Peak 2	Lin1		0.0371		0.523	0.500	4.5	20.0
PCB-1260 Peak 3	Lin1		0.0358		0.535	0.500	7.0	20.0
PCB-1260 Peak 4	Lin1		0.0829		0.493	0.500	-1.4	20.0
PCB-1260 Peak 5	Lin1		0.0388		0.486	0.500	-2.8	20.0
Tetrachloro-m-xylene	Lin1		1.379		0.0139	0.0125	11.5	20.0
DCB Decachlorobiphenyl	Lin1		0.7849		0.0137	0.0125	9.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368775/6 Calibration Date: 07/26/2017 11:58

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_36-220.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.54	2.51	2.57
PCB-1016 Peak 2	2.69	2.66	2.72
PCB-1016 Peak 3	2.89	2.86	2.92
PCB-1016 Peak 4	2.98	2.95	3.01
PCB-1016 Peak 5	3.04	3.01	3.07
PCB-1260 Peak 1	4.76	4.73	4.79
PCB-1260 Peak 2	4.89	4.86	4.92
PCB-1260 Peak 3	5.08	5.05	5.11
PCB-1260 Peak 4	5.29	5.26	5.32
PCB-1260 Peak 5	5.53	5.50	5.56
Tetrachloro-m-xylene	1.97	1.94	2.00
DCB Decachlorobiphenyl	6.91	6.88	6.94

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Jul-2017 11:58:52 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:15:33 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:15:33

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	15388831	0.5000	0.5000	
2	0.942	0.942	0.000	39385935	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.966	1.966	0.000	530519	0.0125	0.0139	
2	1.491	1.491	0.000	1212554	0.0125	0.0137	
						RPD = 1.50	
9 PCB-1016							M
1	2.544	2.544	0.000	645299	0.5000	0.5533	M
1	2.691	2.691	0.000	396731	0.5000	0.5512	M
1	2.893	2.893	0.000	1417505	0.5000	0.5714	M
1	2.980	2.980	0.000	558652	0.5000	0.6021	M
1	3.041	3.041	0.000	378089	0.5000	0.5894	M
		Average of Peak Amounts =				0.5735	
2	2.163	2.163	0.000	1417318	0.5000	0.5277	
2	2.466	2.466	0.000	2927394	0.5000	0.5218	
2	2.573	2.573	0.000	1124876	0.5000	0.5291	
2	2.663	2.663	0.000	754106	0.5000	0.5282	
2	2.936	2.936	0.000	1283463	0.5000	0.5244	
		Average of Peak Amounts =				0.5262	
						RPD = 8.59	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.764	4.764	0.000	1049311	0.5000	0.5404	M
1	4.893	4.893	0.000	570105	0.5000	0.5225	M
1	5.083	5.083	0.000	550876	0.5000	0.5348	M
1	5.288	5.288	0.000	1276399	0.5000	0.4931	M
1	5.532	5.532	0.000	597275	0.5000	0.4861	M
		Average of Peak Amounts =				0.5154	
2	4.295	4.295	0.000	1399807	0.5000	0.4934	
2	4.349	4.349	0.000	1094050	0.5000	0.4218	
2	4.672	4.672	0.000	1106983	0.5000	0.5491	
2	4.748	4.748	0.000	2670897	0.5000	0.4125	
2	5.074	5.074	0.000	1673371	0.5000	0.4269	
		Average of Peak Amounts =				0.4607	
						RPD = 11.20	
2 1260 Res 1							M
1	5.532	5.532	0.000	597275	NC	NC	M
2	4.603	4.603	0.000	1179715	NC	NC	
$ 15 DCB Decachlorobiphenyl							M
1	6.907	6.907	0.000	301952	0.0125	0.0137	M
2	6.056	6.056	0.000	662531	0.0125	0.0115	
						RPD = 17.82	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- s - Failed ISTD Recovery Test

Review Flags
- M - Manually Integrated

Reagents:

1660sur/is0.5_00007 Amount Added: 1.00 Units: ml

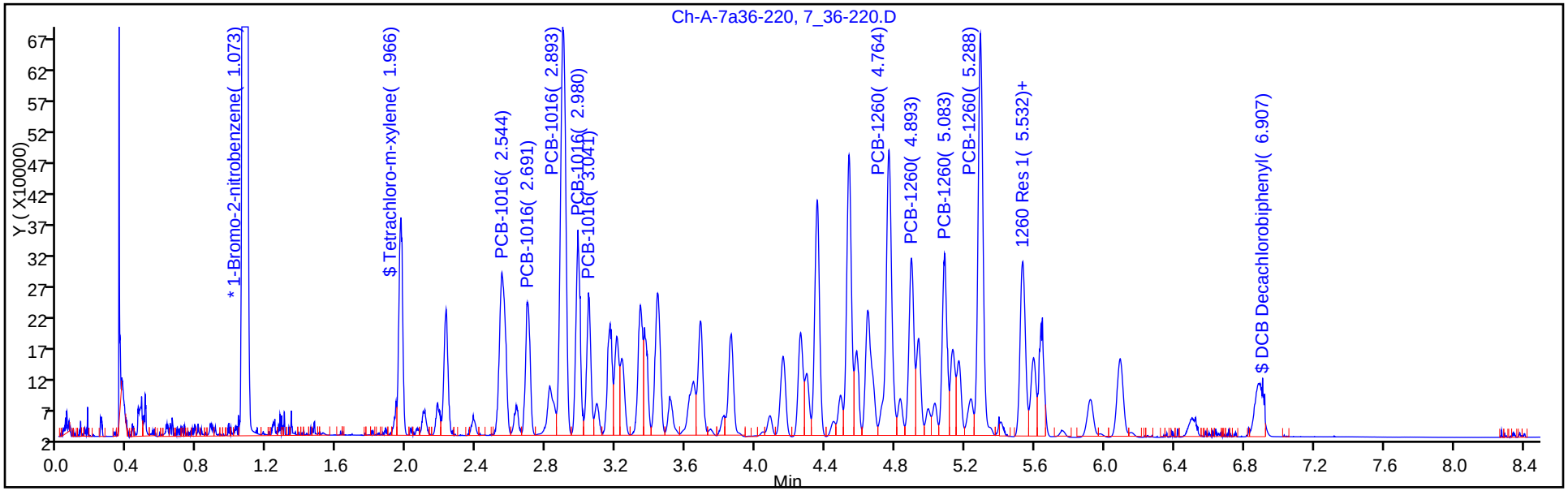
Report Date: 26-Jul-2017 15:15:34 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

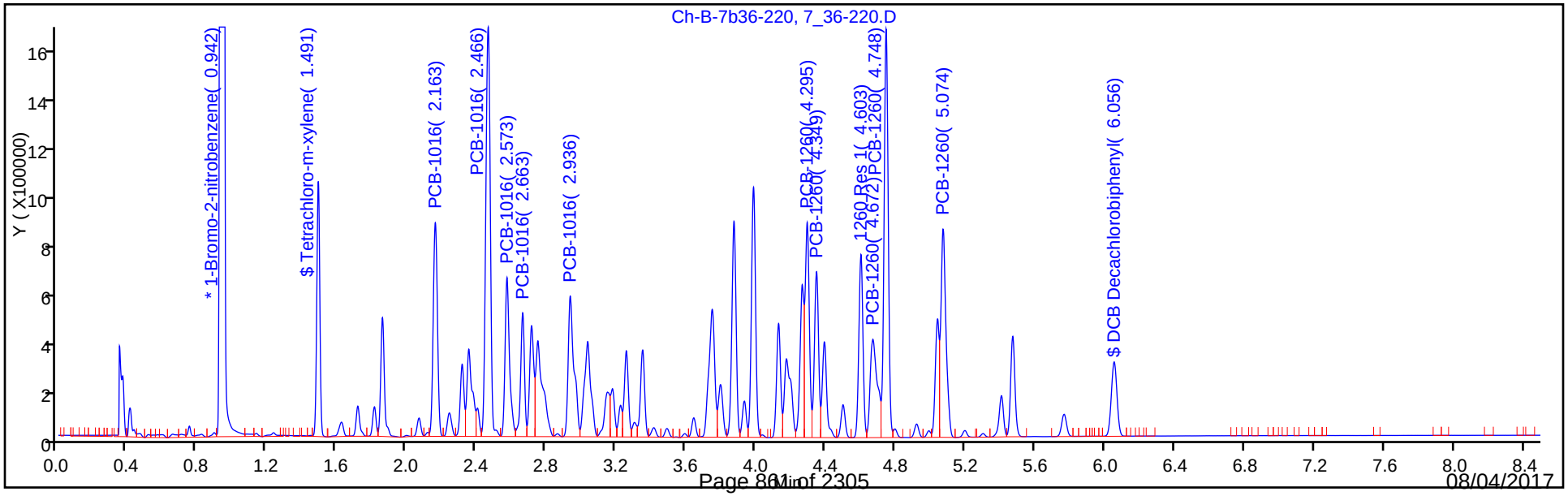
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D

Injection Date:	26-Jul-2017 11:58:52	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 26-Jul-2017 15:15:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D

Injection Date: 26-Jul-2017 11:58:52 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

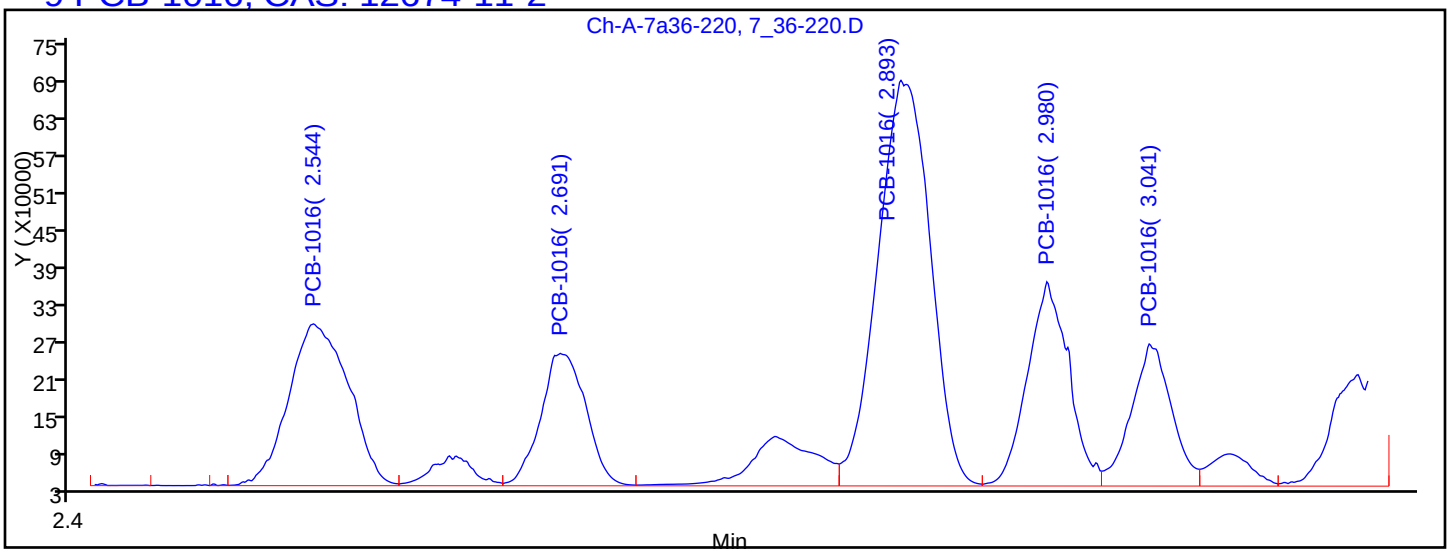
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

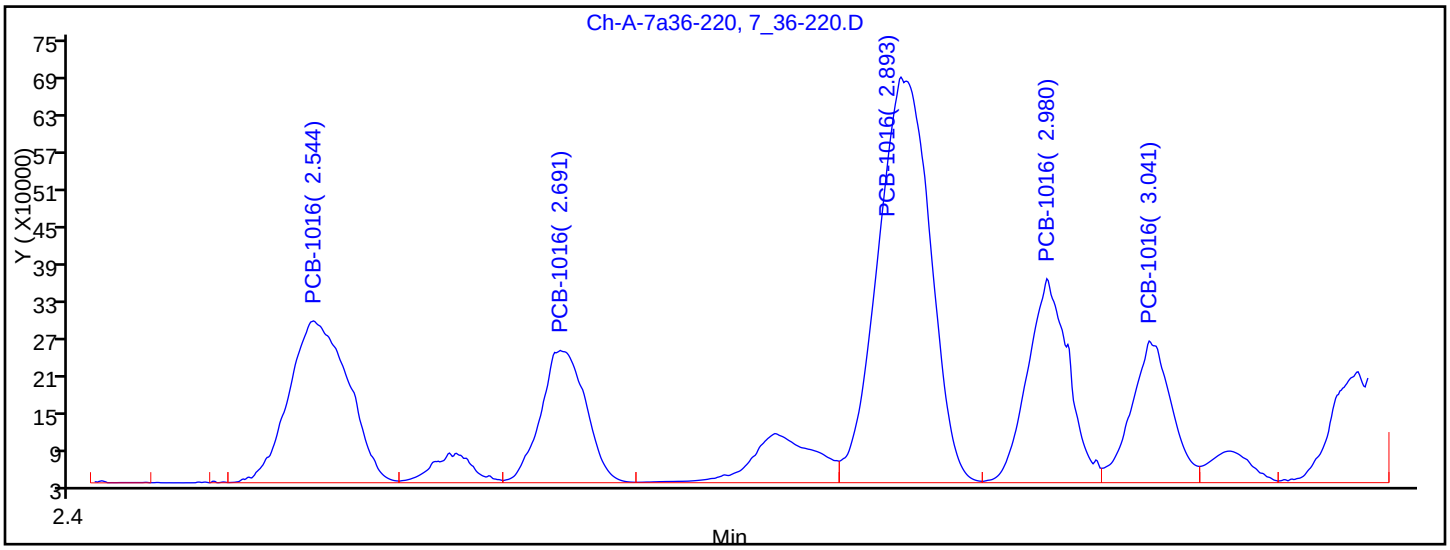
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.544	Response = 646791
2.691	Response = 398895
2.893	Response = 1421259
2.980	Response = 562239
3.041	Response = 381356



Manual Integration Results

2.544	Response = 645299	M
2.691	Response = 396731	M
2.893	Response = 1417505	M
2.980	Response = 558652	M
3.041	Response = 378089	M

Reviewer: owenj, 26-Jul-2017 12:25:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 26-Jul-2017 15:15:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D

Injection Date: 26-Jul-2017 11:58:52 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

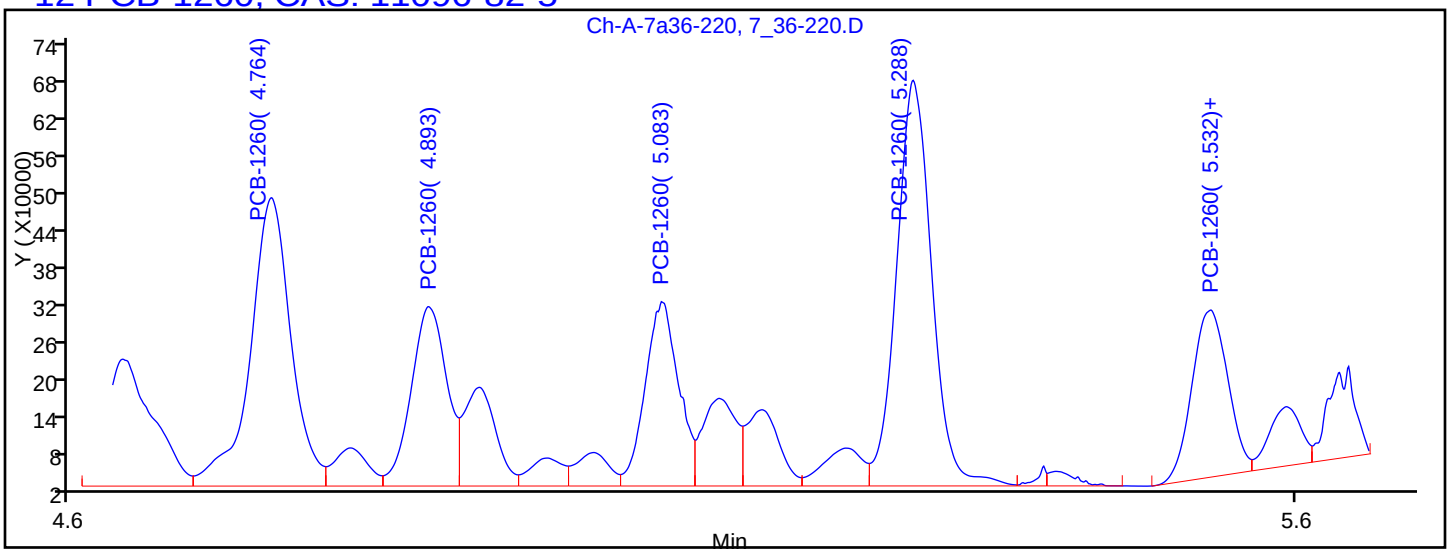
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

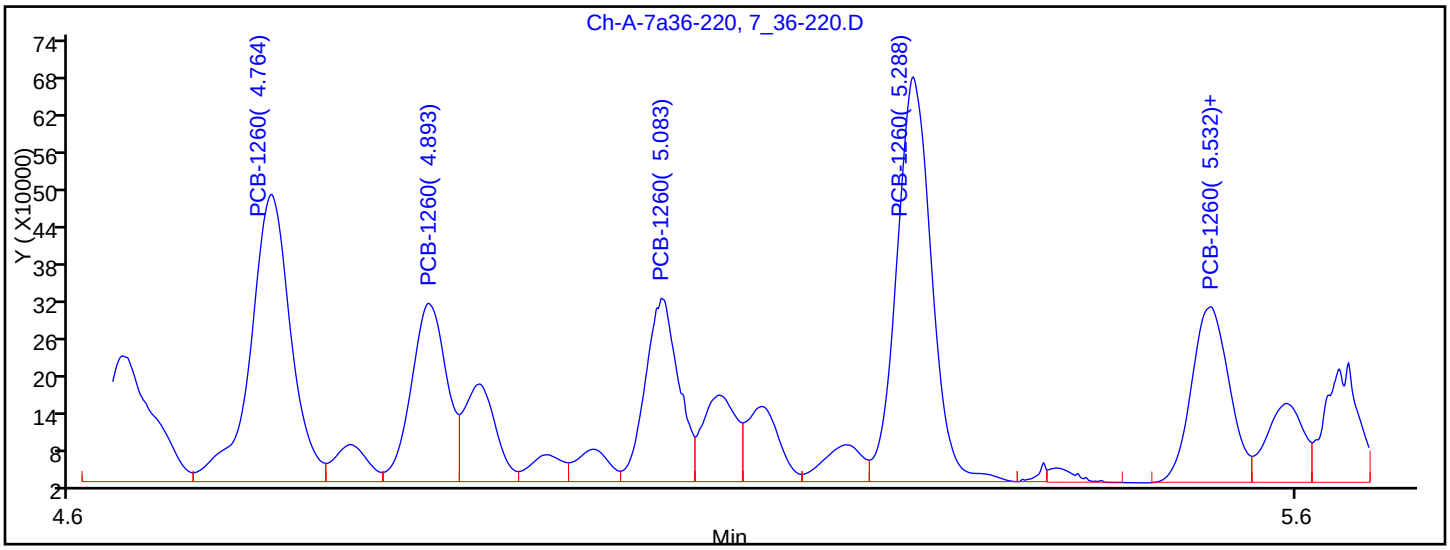
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.764	Response = 1061098
4.893	Response = 576710
5.083	Response = 557024
5.288	Response = 1287941
5.532	Response = 542910



Manual Integration Results

4.764	Response = 1049311	M
4.893	Response = 570105	M
5.083	Response = 550876	M
5.288	Response = 1276399	M
5.532	Response = 597275	M

Reviewer: owenj, 26-Jul-2017 12:24:40

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

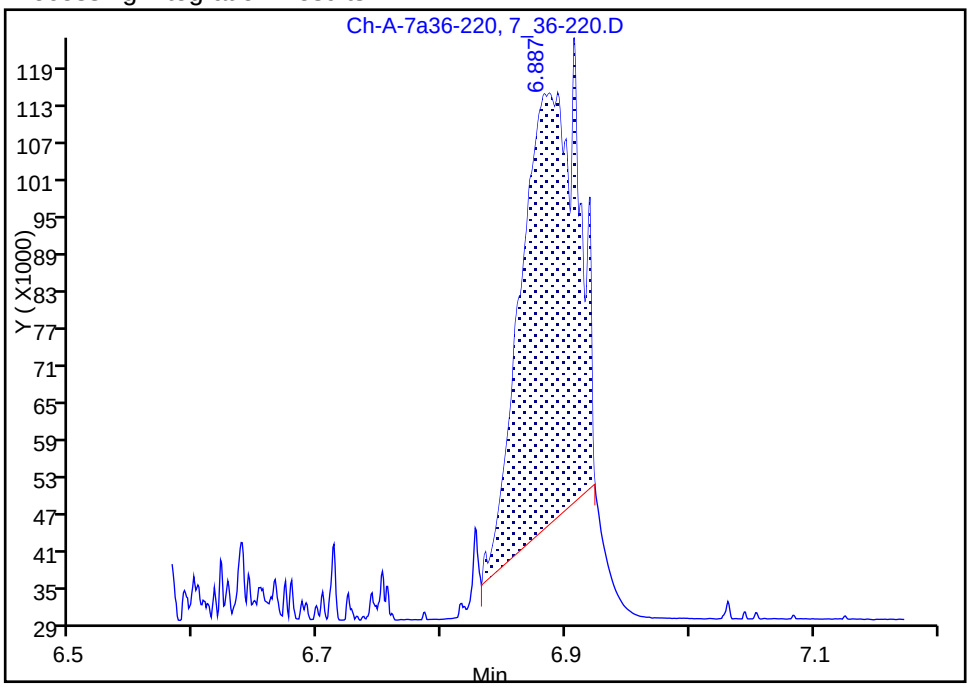
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D
Injection Date: 26-Jul-2017 11:58:52 Instrument ID: HP6890-7
Lims ID: CCVIS
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

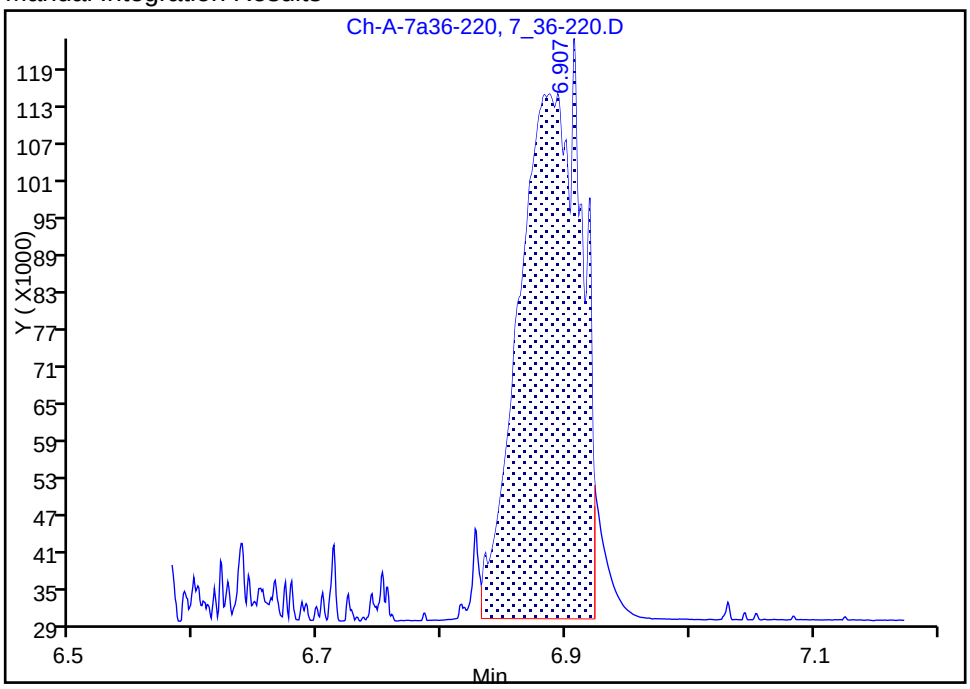
Processing Integration Results

RT: 6.89
Area: 227994
Amount: 0.010185
Amount Units: ng/uL



Manual Integration Results

RT: 6.91
Area: 301952
Amount: 0.013710
Amount Units: ng/uL



Reviewer: owenj, 26-Jul-2017 12:24:40
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368775/6 Calibration Date: 07/26/2017 11:58

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_36-220.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0360		0.528	0.500	5.5	20.0
PCB-1016 Peak 2	Lin1		0.0743		0.522	0.500	4.4	20.0
PCB-1016 Peak 3	Lin1		0.0286		0.529	0.500	5.8	20.0
PCB-1016 Peak 4	Lin1		0.0192		0.528	0.500	5.6	20.0
PCB-1016 Peak 5	Lin1		0.0326		0.524	0.500	4.9	20.0
PCB-1260 Peak 1	Lin1		0.0355		0.493	0.500	-1.3	20.0
PCB-1260 Peak 2	Lin1		0.0278		0.422	0.500	-15.6	20.0
PCB-1260 Peak 3	Lin1		0.0281		0.549	0.500	9.8	20.0
PCB-1260 Peak 4	Lin1		0.0678		0.413	0.500	-17.5	20.0
PCB-1260 Peak 5	Lin1		0.0425		0.427	0.500	-14.6	20.0
Tetrachloro-m-xylene	Lin1		1.231		0.0137	0.0125	9.9	20.0
DCB Decachlorobiphenyl	Lin1		0.6729		0.0115	0.0125	-8.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCVIS 480-368775/6 Calibration Date: 07/26/2017 11:58

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_36-220.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.16	2.13	2.19
PCB-1016 Peak 2	2.47	2.44	2.50
PCB-1016 Peak 3	2.57	2.54	2.60
PCB-1016 Peak 4	2.66	2.63	2.69
PCB-1016 Peak 5	2.94	2.91	2.97
PCB-1260 Peak 1	4.30	4.27	4.33
PCB-1260 Peak 2	4.35	4.32	4.38
PCB-1260 Peak 3	4.67	4.64	4.70
PCB-1260 Peak 4	4.75	4.72	4.78
PCB-1260 Peak 5	5.07	5.04	5.10
Tetrachloro-m-xylene	1.49	1.46	1.52
DCB Decachlorobiphenyl	6.06	6.03	6.09

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 26-Jul-2017 11:58:52 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:15:33 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:15:33

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	15388831	0.5000	0.5000	
2	0.942	0.942	0.000	39385935	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.966	1.966	0.000	530519	0.0125	0.0139	
2	1.491	1.491	0.000	1212554	0.0125	0.0137	
						RPD = 1.50	
9 PCB-1016							M
1	2.544	2.544	0.000	645299	0.5000	0.5533	M
1	2.691	2.691	0.000	396731	0.5000	0.5512	M
1	2.893	2.893	0.000	1417505	0.5000	0.5714	M
1	2.980	2.980	0.000	558652	0.5000	0.6021	M
1	3.041	3.041	0.000	378089	0.5000	0.5894	M
		Average of Peak Amounts =				0.5735	
2	2.163	2.163	0.000	1417318	0.5000	0.5277	
2	2.466	2.466	0.000	2927394	0.5000	0.5218	
2	2.573	2.573	0.000	1124876	0.5000	0.5291	
2	2.663	2.663	0.000	754106	0.5000	0.5282	
2	2.936	2.936	0.000	1283463	0.5000	0.5244	
		Average of Peak Amounts =				0.5262	
						RPD = 8.59	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.764	4.764	0.000	1049311	0.5000	0.5404	M
1	4.893	4.893	0.000	570105	0.5000	0.5225	M
1	5.083	5.083	0.000	550876	0.5000	0.5348	M
1	5.288	5.288	0.000	1276399	0.5000	0.4931	M
1	5.532	5.532	0.000	597275	0.5000	0.4861	M
		Average of Peak Amounts =				0.5154	
2	4.295	4.295	0.000	1399807	0.5000	0.4934	
2	4.349	4.349	0.000	1094050	0.5000	0.4218	
2	4.672	4.672	0.000	1106983	0.5000	0.5491	
2	4.748	4.748	0.000	2670897	0.5000	0.4125	
2	5.074	5.074	0.000	1673371	0.5000	0.4269	
		Average of Peak Amounts =				0.4607	
						RPD = 11.20	
2 1260 Res 1							M
1	5.532	5.532	0.000	597275	NC	NC	M
2	4.603	4.603	0.000	1179715	NC	NC	
$ 15 DCB Decachlorobiphenyl							M
1	6.907	6.907	0.000	301952	0.0125	0.0137	M
2	6.056	6.056	0.000	662531	0.0125	0.0115	
						RPD = 17.82	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- s - Failed ISTD Recovery Test

Review Flags
- M - Manually Integrated

Reagents:

1660sur/is0.5_00007 Amount Added: 1.00 Units: ml

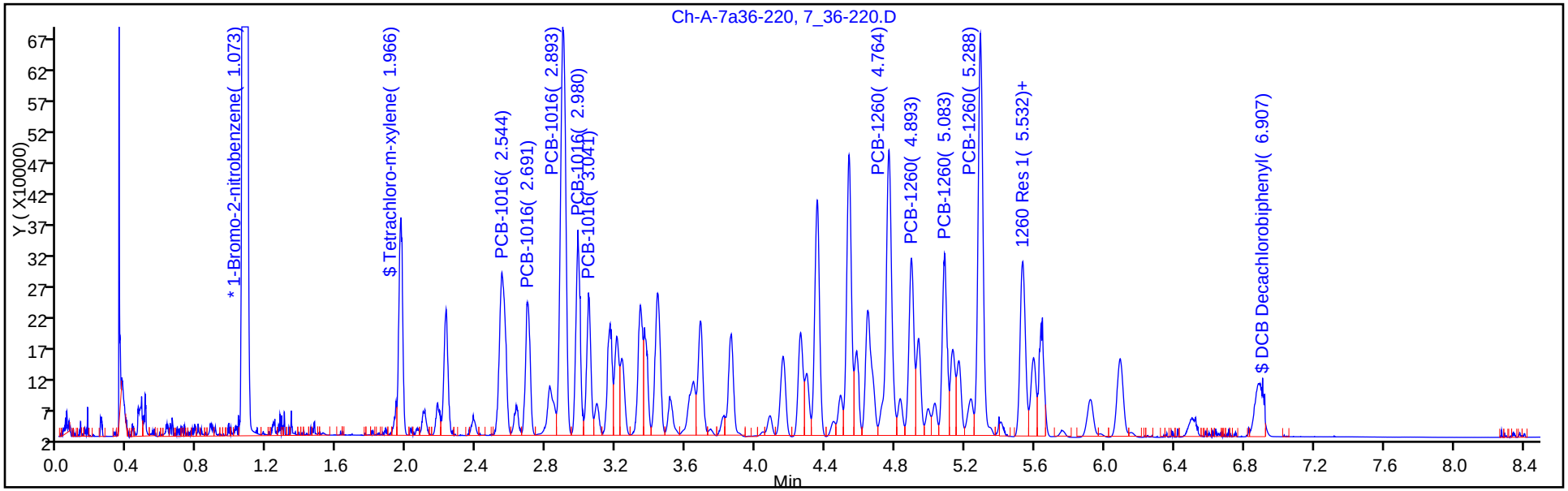
Report Date: 26-Jul-2017 15:15:35 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

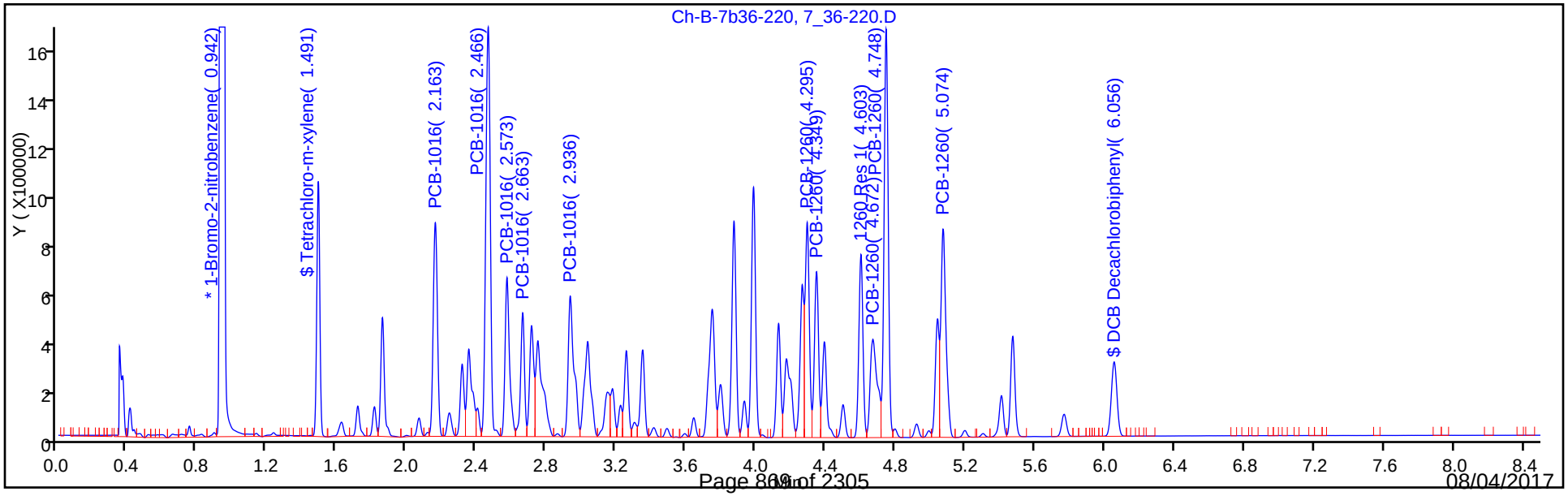
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-220.D

Injection Date:	26-Jul-2017 11:58:52	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/7 Calibration Date: 07/26/2017 12:14

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_36-221.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0068		0.478	0.500	-4.3	20.0
PCB-1221 Peak 2	Lin1		0.0132		0.590	0.500	17.9	20.0
PCB-1221 Peak 3	Lin1		0.0080		0.586	0.500	17.2	20.0
PCB-1221 Peak 4	Lin1		0.0300		0.600	0.500	20.0	20.0
PCB-1254 Peak 1	Lin1		0.0625		0.603	0.500	20.6*	20.0
PCB-1254 Peak 2	Lin1		0.0398		0.586	0.500	17.2	20.0
PCB-1254 Peak 3	Lin1		0.0728		0.593	0.500	18.5	20.0
PCB-1254 Peak 4	Lin1		0.0730		0.586	0.500	17.2	20.0
PCB-1254 Peak 5	Lin1		0.0577		0.549	0.500	9.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/7 Calibration Date: 07/26/2017 12:14

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_36-221.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.52	1.49	1.55
PCB-1221 Peak 2	2.10	2.07	2.13
PCB-1221 Peak 3	2.18	2.15	2.21
PCB-1221 Peak 4	2.22	2.19	2.25
PCB-1254 Peak 1	3.86	3.83	3.89
PCB-1254 Peak 2	4.08	4.05	4.11
PCB-1254 Peak 3	4.16	4.13	4.19
PCB-1254 Peak 4	4.36	4.33	4.39
PCB-1254 Peak 5	4.77	4.74	4.80

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-221.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:14:50 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:15:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:15:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	15324796	0.5000	0.5000	
2	0.942	0.942	0.000	38531583	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.523	1.523	0.000	103849	0.5000	0.4783	
1	2.101	2.101	0.000	201953	0.5000	0.5896	
1	2.176	2.176	0.000	121860	0.5000	0.5860	
1	2.223	2.223	0.000	459134	0.5000	0.5999	
		Average of Peak Amounts =				0.5635	
2	1.234	1.234	0.000	278327	0.5000	0.5154	M
2	1.718	1.718	0.000	466787	0.5000	0.5558	M
2	1.813	1.813	0.000	293182	0.5000	0.5757	M
2	1.859	1.859	0.000	870603	0.5000	0.5336	M
		Average of Peak Amounts =				0.5451	
						RPD = 3.31	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.859	3.859	0.000	957374	0.5000	0.6030	
1	4.081	4.081	0.000	610084	0.5000	0.5862	
1	4.162	4.162	0.000	1115742	0.5000	0.5927	
1	4.360	4.360	0.000	1117902	0.5000	0.5859	
1	4.765	4.765	0.000	884361	0.5000	0.5494	
		Average of Peak Amounts =				0.5834	
2	3.352	3.352	0.000	1450809	0.5000	0.5065	
2	3.644	3.644	0.000	1090308	0.5000	0.5187	
2	3.730	3.730	0.000	2326215	0.5000	0.5109	
2	3.867	3.867	0.000	2317322	0.5000	0.5011	
2	4.297	4.297	0.000	1878722	0.5000	0.4827	
		Average of Peak Amounts =				0.5040	
						RPD = 14.61	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00009 Amount Added: 1.00 Units: mL

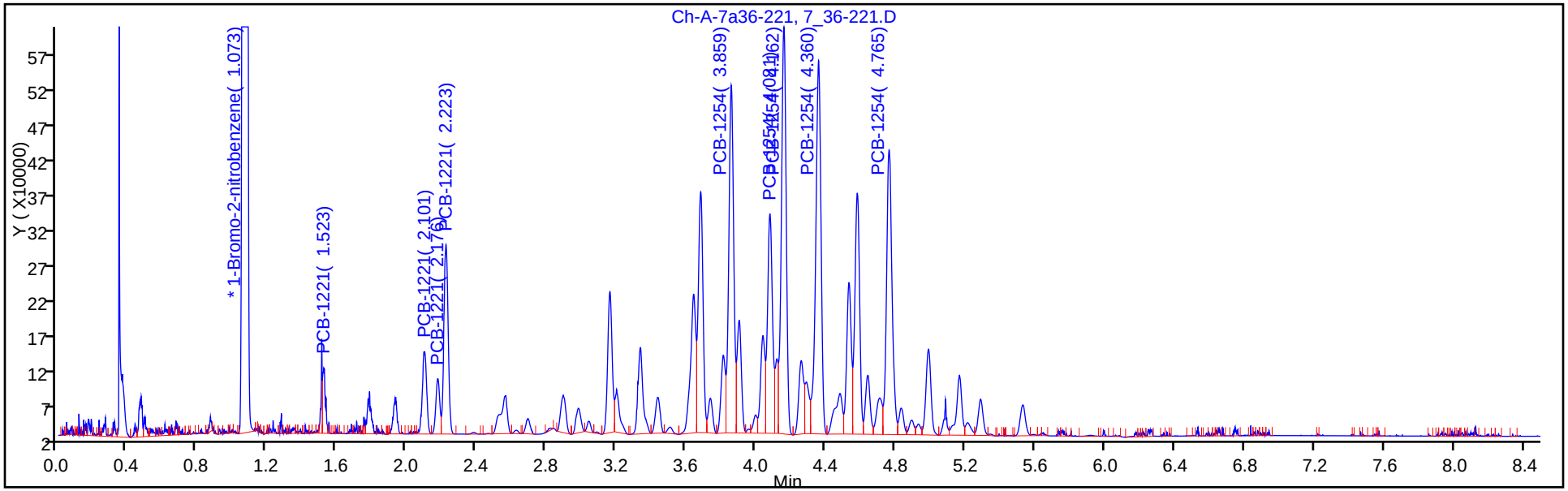
Report Date: 26-Jul-2017 15:15:59 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

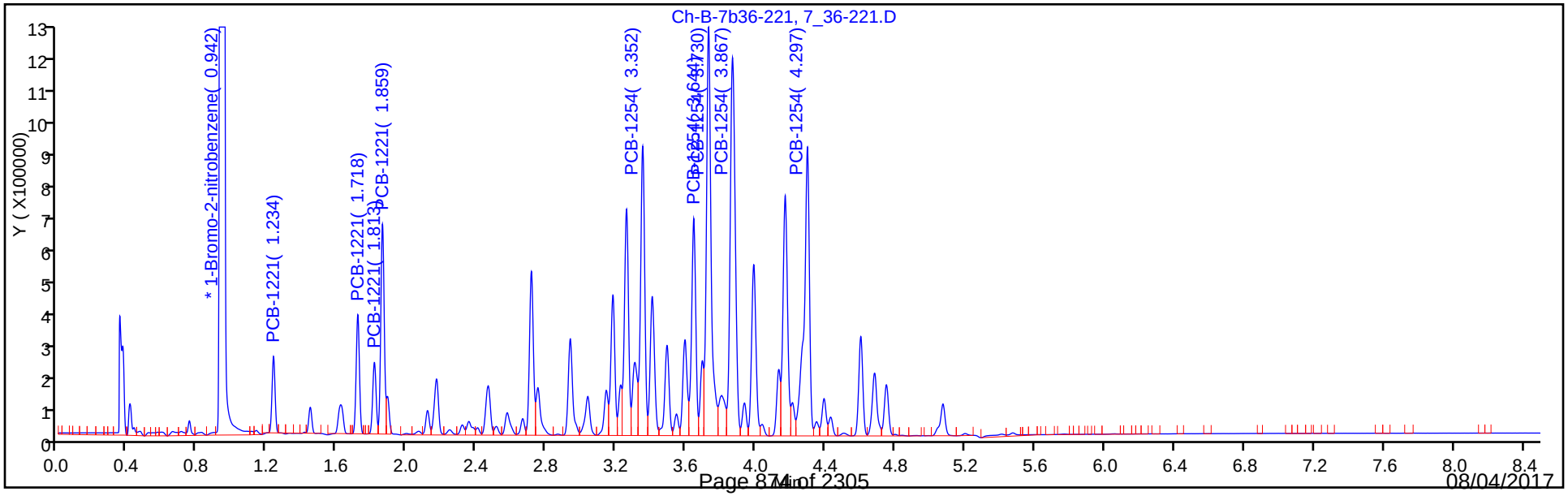
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-221.D

Injection Date:	26-Jul-2017 12:14:50	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/7 Calibration Date: 07/26/2017 12:14

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_36-221.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0072		0.515	0.500	3.1	20.0
PCB-1221 Peak 2	Lin1		0.0121		0.556	0.500	11.2	20.0
PCB-1221 Peak 3	Lin1		0.0076		0.576	0.500	15.1	20.0
PCB-1221 Peak 4	Lin1		0.0226		0.534	0.500	6.7	20.0
PCB-1254 Peak 1	Lin1		0.0377		0.507	0.500	1.3	20.0
PCB-1254 Peak 2	Lin1		0.0283		0.519	0.500	3.7	20.0
PCB-1254 Peak 3	Lin1		0.0604		0.511	0.500	2.2	20.0
PCB-1254 Peak 4	Lin1		0.0601		0.501	0.500	0.2	20.0
PCB-1254 Peak 5	Lin1		0.0488		0.483	0.500	-3.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/7 Calibration Date: 07/26/2017 12:14

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_36-221.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.23	1.20	1.26
PCB-1221 Peak 2	1.72	1.69	1.75
PCB-1221 Peak 3	1.81	1.78	1.84
PCB-1221 Peak 4	1.86	1.83	1.89
PCB-1254 Peak 1	3.35	3.32	3.38
PCB-1254 Peak 2	3.64	3.61	3.67
PCB-1254 Peak 3	3.73	3.70	3.76
PCB-1254 Peak 4	3.87	3.84	3.90
PCB-1254 Peak 5	4.30	4.27	4.33

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-221.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:14:50 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:15:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:15:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	15324796	0.5000	0.5000	
2	0.942	0.942	0.000	38531583	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.523	1.523	0.000	103849	0.5000	0.4783	
1	2.101	2.101	0.000	201953	0.5000	0.5896	
1	2.176	2.176	0.000	121860	0.5000	0.5860	
1	2.223	2.223	0.000	459134	0.5000	0.5999	
		Average of Peak Amounts =				0.5635	
2	1.234	1.234	0.000	278327	0.5000	0.5154	M
2	1.718	1.718	0.000	466787	0.5000	0.5558	M
2	1.813	1.813	0.000	293182	0.5000	0.5757	M
2	1.859	1.859	0.000	870603	0.5000	0.5336	M
		Average of Peak Amounts =				0.5451	
						RPD = 3.31	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.859	3.859	0.000	957374	0.5000	0.6030	
1	4.081	4.081	0.000	610084	0.5000	0.5862	
1	4.162	4.162	0.000	1115742	0.5000	0.5927	
1	4.360	4.360	0.000	1117902	0.5000	0.5859	
1	4.765	4.765	0.000	884361	0.5000	0.5494	
		Average of Peak Amounts =				0.5834	
2	3.352	3.352	0.000	1450809	0.5000	0.5065	
2	3.644	3.644	0.000	1090308	0.5000	0.5187	
2	3.730	3.730	0.000	2326215	0.5000	0.5109	
2	3.867	3.867	0.000	2317322	0.5000	0.5011	
2	4.297	4.297	0.000	1878722	0.5000	0.4827	
		Average of Peak Amounts =				0.5040	
						RPD = 14.61	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00009 Amount Added: 1.00 Units: mL

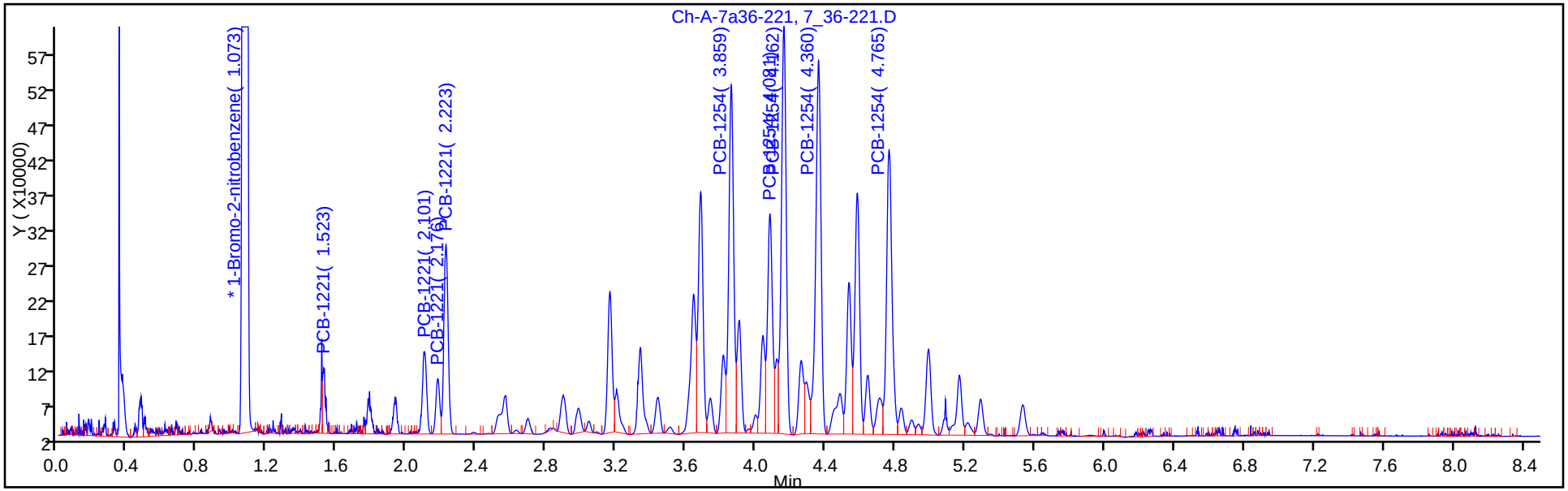
Report Date: 26-Jul-2017 15:16:00 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

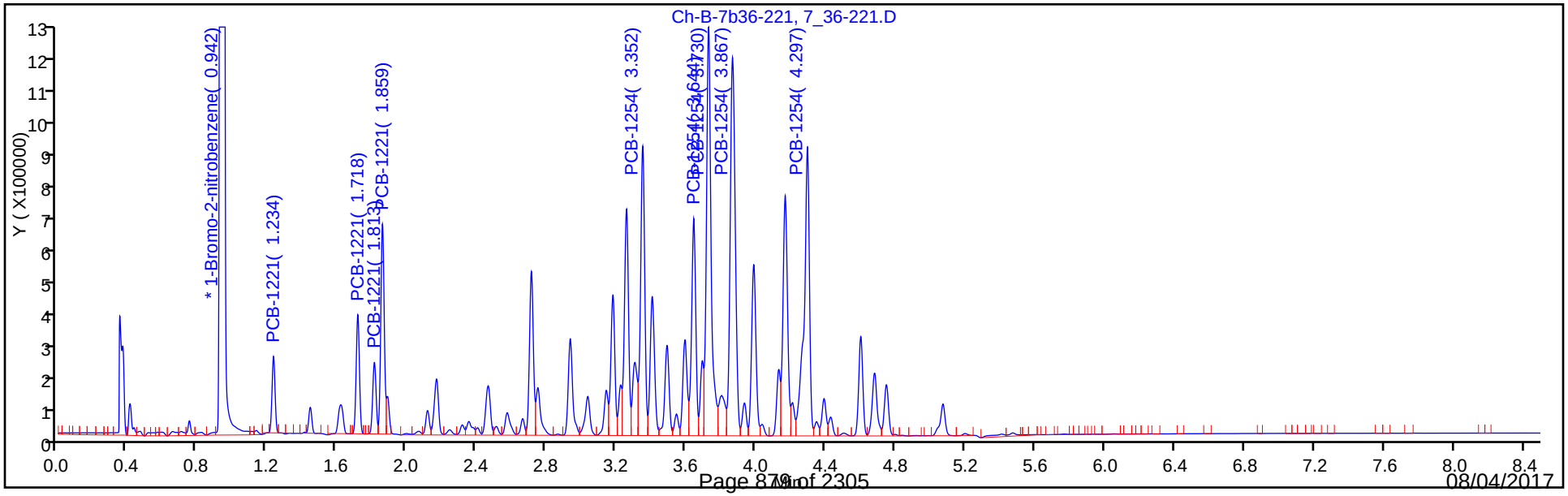
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-221.D

Injection Date:	26-Jul-2017 12:14:50	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 26-Jul-2017 15:16:00 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-221.D

Injection Date: 26-Jul-2017 12:14:50 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

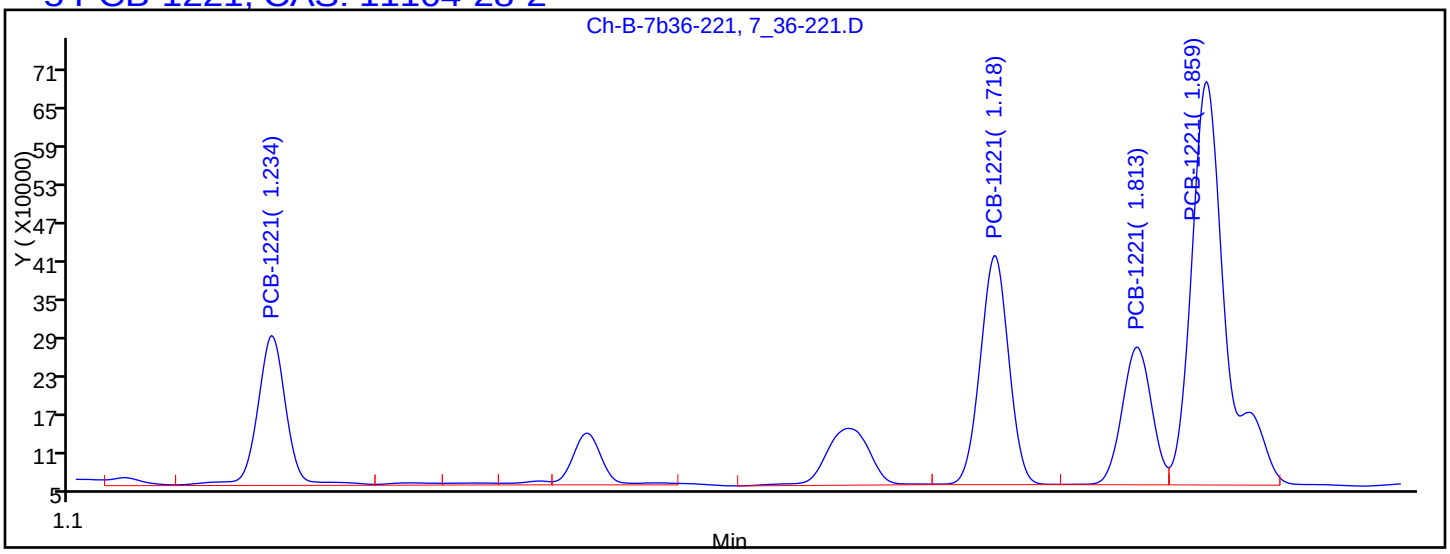
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

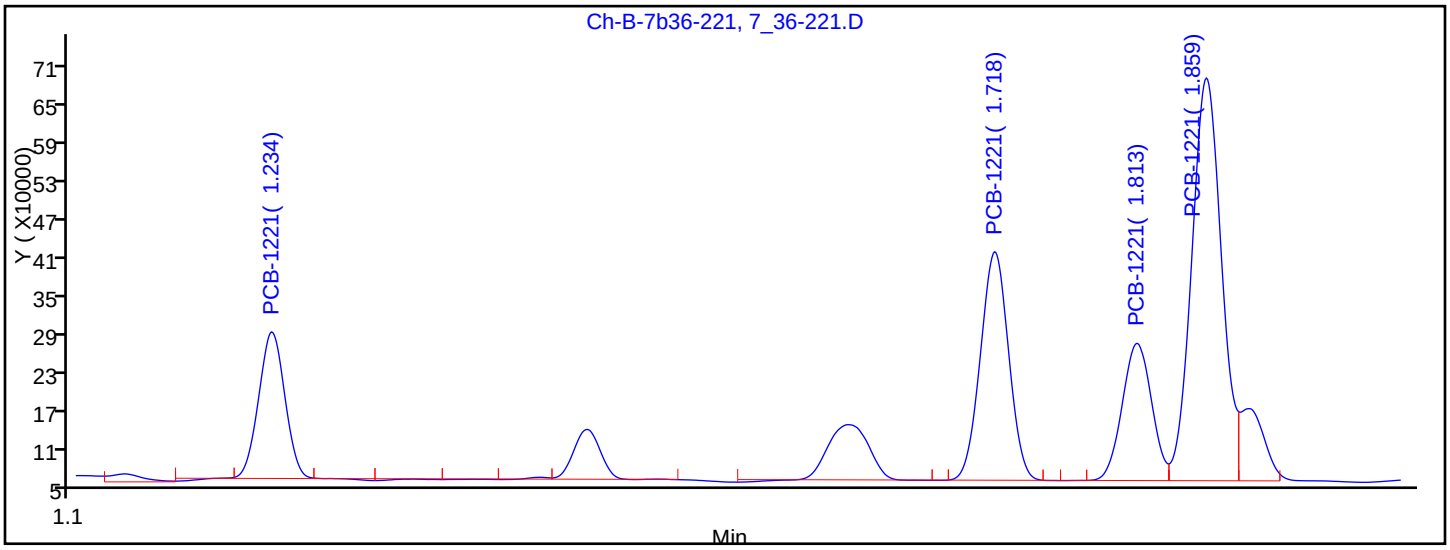
Column: Detector Ch-B-7b136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.234	Response = 312718
1.718	Response = 471808
1.813	Response = 296332
1.859	Response = 999243



Manual Integration Results

1.234	Response = 278327	M
1.718	Response = 466787	M
1.813	Response = 293182	M
1.859	Response = 870603	M

Reviewer: owenj, 26-Jul-2017 12:40:51

Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/8 Calibration Date: 07/26/2017 12:30

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_36-222.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0245		0.567	0.500	13.5	20.0
PCB-1232 Peak 2	Lin1		0.0128		0.566	0.500	13.3	20.0
PCB-1232 Peak 3	Lin1		0.0421		0.545	0.500	9.1	20.0
PCB-1232 Peak 4	Lin1		0.0166		0.564	0.500	12.7	20.0
PCB-1232 Peak 5	Lin1		0.0112		0.553	0.500	10.6	20.0
PCB-1262 Peak 1	Lin1		0.0584		0.547	0.500	9.3	20.0
PCB-1262 Peak 2	Lin1		0.0428		0.515	0.500	3.0	20.0
PCB-1262 Peak 3	Lin1		0.1000		0.510	0.500	1.9	20.0
PCB-1262 Peak 4	Lin1		0.0310		0.493	0.500	-1.4	20.0
PCB-1262 Peak 5	Lin1		0.0391		0.501	0.500	0.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/8 Calibration Date: 07/26/2017 12:30

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_36-222.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.22	2.19	2.25
PCB-1232 Peak 2	2.69	2.66	2.72
PCB-1232 Peak 3	2.90	2.87	2.93
PCB-1232 Peak 4	2.98	2.95	3.01
PCB-1232 Peak 5	3.04	3.01	3.07
PCB-1262 Peak 1	4.89	4.86	4.92
PCB-1262 Peak 2	5.08	5.05	5.11
PCB-1262 Peak 3	5.29	5.26	5.32
PCB-1262 Peak 4	5.53	5.50	5.56
PCB-1262 Peak 5	5.64	5.61	5.67

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-222.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:30:53 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:16:21 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:16:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.072	1.072	0.000	15906645	0.5000	0.5000	
2	0.941	0.941	0.000	40378971	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							
1	2.223	2.223	0.000	388961	0.5000	0.5674	
1	2.688	2.688	0.000	202945	0.5000	0.5664	
1	2.898	2.898	0.000	669367	0.5000	0.5453	
1	2.981	2.981	0.000	263541	0.5000	0.5636	
1	3.043	3.043	0.000	177392	0.5000	0.5528	
		Average of Peak Amounts =				0.5591	
2	1.859	1.859	0.000	869023	0.5000	0.5950	
2	2.163	2.163	0.000	784517	0.5000	0.5328	
2	2.466	2.466	0.000	1418267	0.5000	0.5070	
2	2.573	2.573	0.000	567846	0.5000	0.5311	
2	2.938	2.938	0.000	612948	0.5000	0.5201	
		Average of Peak Amounts =				0.5372	
						RPD = 4.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.893	4.893	0.000	928460	0.5000	0.5467	
1	5.083	5.083	0.000	680293	0.5000	0.5152	
1	5.290	5.290	0.000	1590978	0.5000	0.5096	
1	5.532	5.532	0.000	493073	0.5000	0.4932	
1	5.641	5.641	0.000	621221	0.5000	0.5009	
		Average of Peak Amounts =				0.5131	
2	4.348	4.348	0.000	1774055	0.5000	0.4273	
2	4.603	4.603	0.000	1505966	0.5000	0.4539	
2	4.749	4.749	0.000	3250369	0.5000	0.4102	
2	5.042	5.042	0.000	1387420	0.5000	0.4133	
2	5.077	5.077	0.000	2019406	0.5000	0.4163	
		Average of Peak Amounts =				0.4242	
						RPD = 18.97	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

32-62w/IS@0.5_00009 Amount Added: 1.00 Units: mL

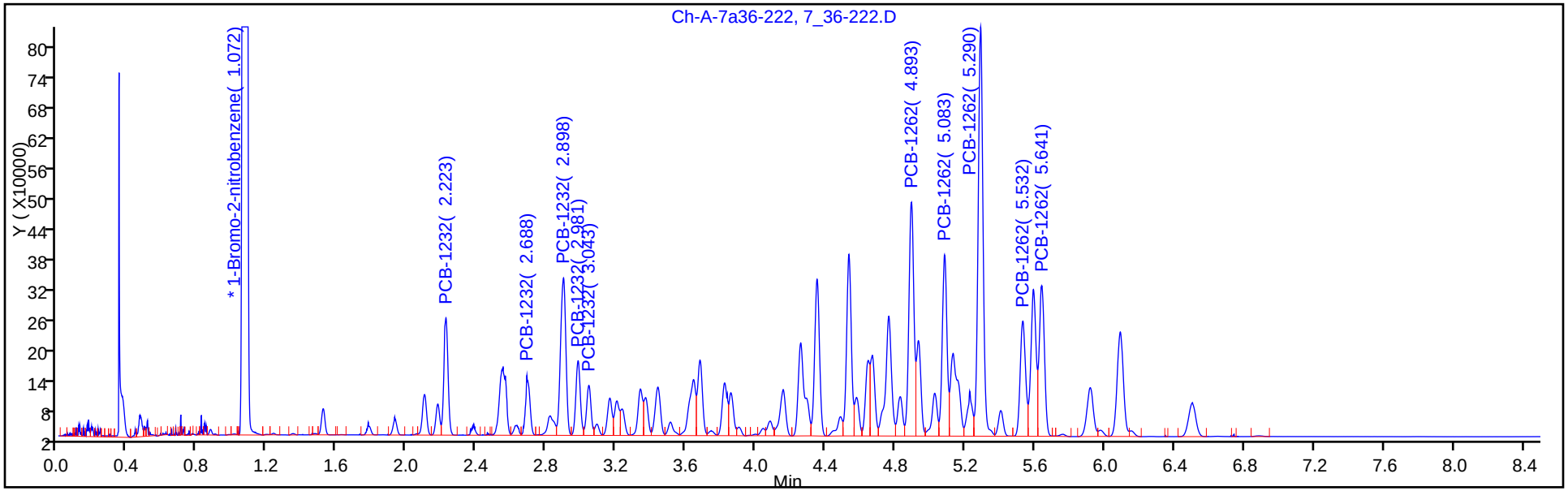
Report Date: 26-Jul-2017 15:16:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

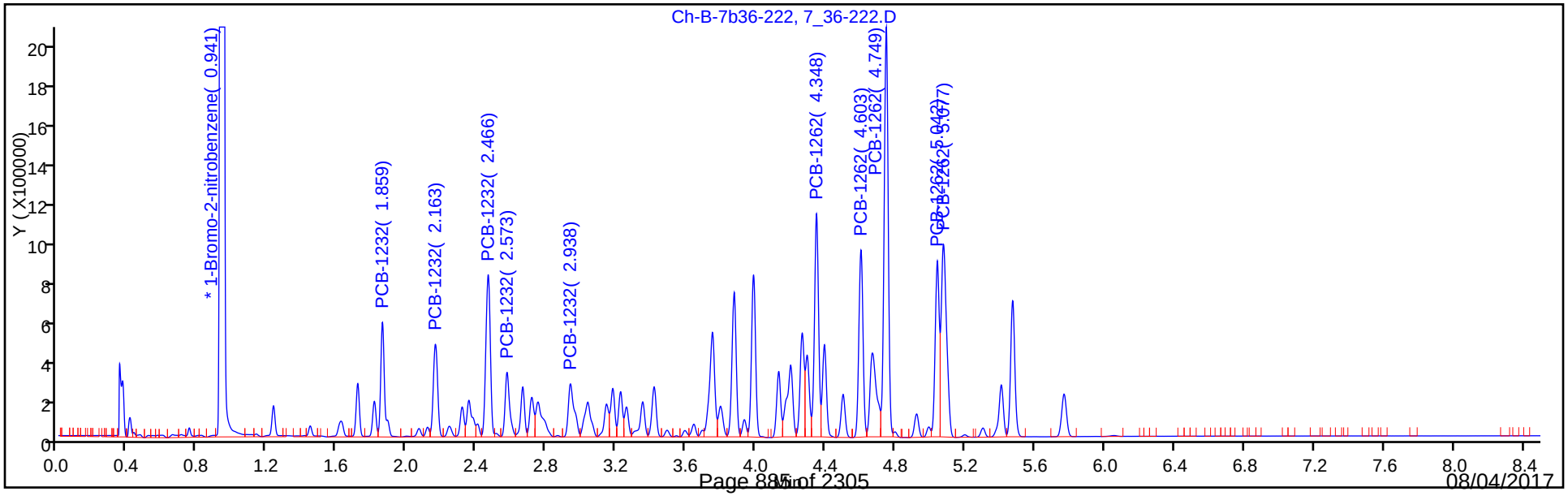
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-222.D

Injection Date:	26-Jul-2017 12:30:53	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/8 Calibration Date: 07/26/2017 12:30

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_36-222.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0215		0.595	0.500	19.0	20.0
PCB-1232 Peak 2	Lin1		0.0194		0.533	0.500	6.6	20.0
PCB-1232 Peak 3	Lin1		0.0351		0.507	0.500	1.4	20.0
PCB-1232 Peak 4	Lin1		0.0141		0.531	0.500	6.2	20.0
PCB-1232 Peak 5	Lin1		0.0152		0.520	0.500	4.0	20.0
PCB-1262 Peak 1	Lin1		0.0439		0.427	0.500	-14.5	20.0
PCB-1262 Peak 2	Lin1		0.0373		0.454	0.500	-9.2	20.0
PCB-1262 Peak 3	Lin1		0.0805		0.410	0.500	-18.0	20.0
PCB-1262 Peak 4	Lin1		0.0344		0.413	0.500	-17.3	20.0
PCB-1262 Peak 5	Lin1		0.0500		0.416	0.500	-16.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/8 Calibration Date: 07/26/2017 12:30

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_36-222.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	1.86	1.83	1.89
PCB-1232 Peak 2	2.16	2.13	2.19
PCB-1232 Peak 3	2.47	2.44	2.50
PCB-1232 Peak 4	2.57	2.54	2.60
PCB-1232 Peak 5	2.94	2.91	2.97
PCB-1262 Peak 1	4.35	4.32	4.38
PCB-1262 Peak 2	4.60	4.57	4.63
PCB-1262 Peak 3	4.75	4.72	4.78
PCB-1262 Peak 4	5.04	5.01	5.07
PCB-1262 Peak 5	5.08	5.05	5.11

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-222.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:30:53 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:16:21 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:16:21

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.072	1.072	0.000	15906645	0.5000	0.5000	
2	0.941	0.941	0.000	40378971	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							
1	2.223	2.223	0.000	388961	0.5000	0.5674	
1	2.688	2.688	0.000	202945	0.5000	0.5664	
1	2.898	2.898	0.000	669367	0.5000	0.5453	
1	2.981	2.981	0.000	263541	0.5000	0.5636	
1	3.043	3.043	0.000	177392	0.5000	0.5528	
		Average of Peak Amounts =				0.5591	
2	1.859	1.859	0.000	869023	0.5000	0.5950	
2	2.163	2.163	0.000	784517	0.5000	0.5328	
2	2.466	2.466	0.000	1418267	0.5000	0.5070	
2	2.573	2.573	0.000	567846	0.5000	0.5311	
2	2.938	2.938	0.000	612948	0.5000	0.5201	
		Average of Peak Amounts =				0.5372	
						RPD = 4.00	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	4.893	4.893	0.000	928460	0.5000	0.5467	
1	5.083	5.083	0.000	680293	0.5000	0.5152	
1	5.290	5.290	0.000	1590978	0.5000	0.5096	
1	5.532	5.532	0.000	493073	0.5000	0.4932	
1	5.641	5.641	0.000	621221	0.5000	0.5009	
		Average of Peak Amounts =				0.5131	
2	4.348	4.348	0.000	1774055	0.5000	0.4273	
2	4.603	4.603	0.000	1505966	0.5000	0.4539	
2	4.749	4.749	0.000	3250369	0.5000	0.4102	
2	5.042	5.042	0.000	1387420	0.5000	0.4133	
2	5.077	5.077	0.000	2019406	0.5000	0.4163	
		Average of Peak Amounts =				0.4242	
						RPD = 18.97	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

32-62w/IS@0.5_00009 Amount Added: 1.00 Units: mL

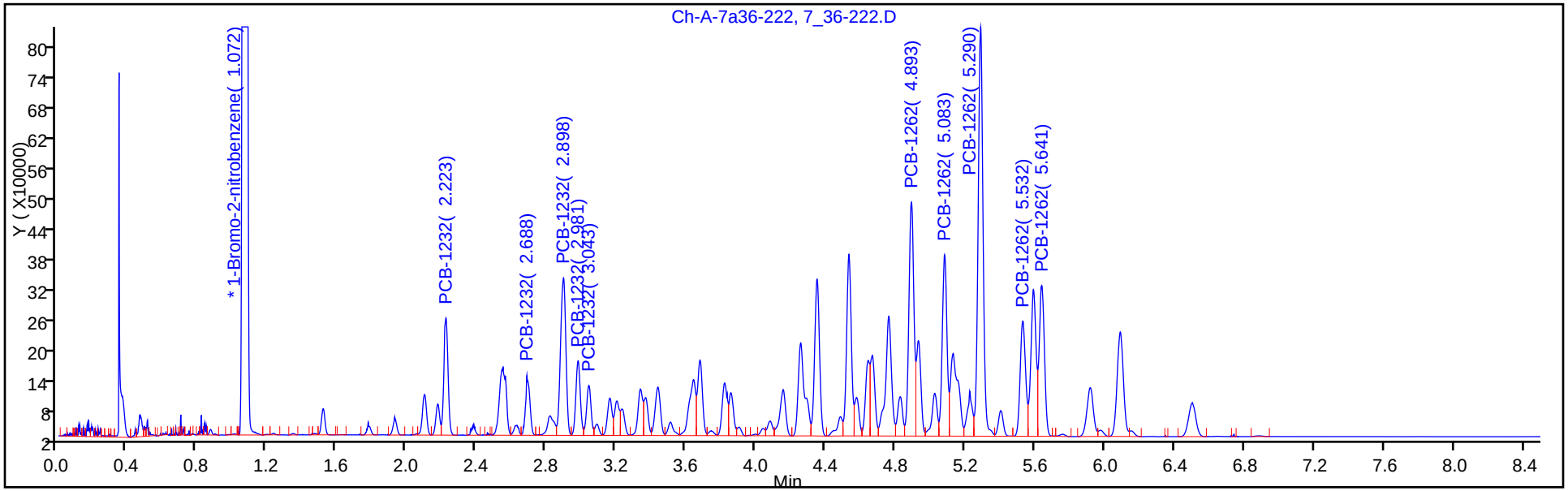
Report Date: 26-Jul-2017 15:16:22 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

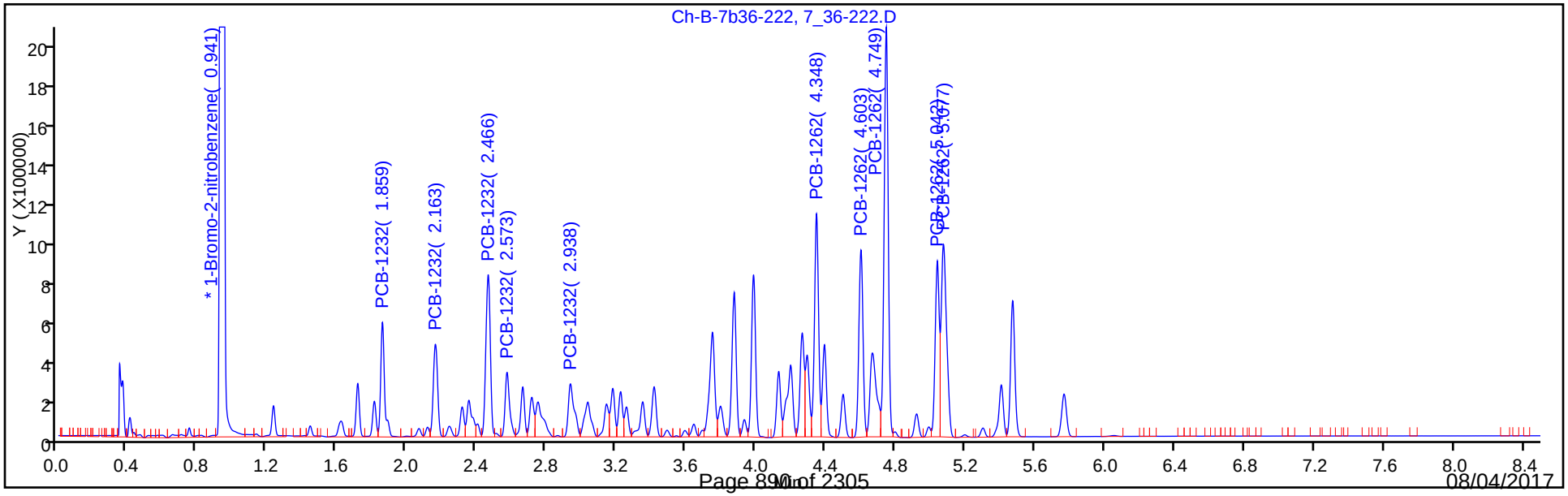
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-222.D

Injection Date:	26-Jul-2017 12:30:53	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/9 Calibration Date: 07/26/2017 12:47

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_36-223.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0714		0.526	0.500	5.1	20.0
PCB-1242 Peak 2	Lin1		0.0273		0.533	0.500	6.7	20.0
PCB-1242 Peak 3	Lin1		0.0207		0.533	0.500	6.6	20.0
PCB-1242 Peak 4	Lin1		0.0245		0.534	0.500	6.9	20.0
PCB-1242 Peak 5	Lin1		0.0357		0.548	0.500	9.6	20.0
PCB-1268 Peak 1	Lin1		0.1099		0.509	0.500	1.8	20.0
PCB-1268 Peak 2	Lin1		0.0989		0.496	0.500	-0.9	20.0
PCB-1268 Peak 3	Lin1		0.0859		0.513	0.500	2.6	20.0
PCB-1268 Peak 4	Lin1		0.0361		0.482	0.500	-3.6	20.0
PCB-1268 Peak 5	Lin1		0.2711		0.505	0.500	1.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/9 Calibration Date: 07/26/2017 12:47

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_36-223.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.90	2.87	2.93
PCB-1242 Peak 2	2.98	2.95	3.01
PCB-1242 Peak 3	3.34	3.31	3.37
PCB-1242 Peak 4	3.44	3.41	3.47
PCB-1242 Peak 5	3.65	3.62	3.68
PCB-1268 Peak 1	5.60	5.57	5.63
PCB-1268 Peak 2	5.64	5.61	5.67
PCB-1268 Peak 3	5.90	5.87	5.93
PCB-1268 Peak 4	6.09	6.06	6.12
PCB-1268 Peak 5	6.50	6.47	6.53

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-223.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:47:12 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:16:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:16:48

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	16348565	0.5000	0.5000	
2	0.942	0.942	0.000	42030383	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	2.897	2.897	0.000	1167351	0.5000	0.5255	
1	2.982	2.982	0.000	445688	0.5000	0.5334	
1	3.341	3.341	0.000	338889	0.5000	0.5330	
1	3.441	3.441	0.000	400486	0.5000	0.5345	
1	3.646	3.646	0.000	583442	0.5000	0.5479	
		Average of Peak Amounts =				0.5349	
2	2.467	2.467	0.000	2421004	0.5000	0.4832	
2	2.574	2.574	0.000	954552	0.5000	0.4958	
2	2.938	2.938	0.000	1118078	0.5000	0.4900	
2	3.181	3.181	0.000	733977	0.5000	0.4436	
2	3.225	3.225	0.000	686690	0.5000	0.4668	
		Average of Peak Amounts =				0.4759	
						RPD = 11.68	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.595	5.595	0.000	1796081	0.5000	0.5089	
1	5.641	5.641	0.000	1617277	0.5000	0.4957	
1	5.903	5.903	0.000	1404301	0.5000	0.5131	
1	6.091	6.091	0.000	590827	0.5000	0.4818	
1	6.503	6.503	0.000	4432707	0.5000	0.5049	
		Average of Peak Amounts =				0.5009	
2	5.042	5.042	0.000	3708824	0.5000	0.4110	
2	5.080	5.080	0.000	3434807	0.5000	0.4142	
2	5.303	5.303	0.000	2812154	0.5000	0.3995	
2	5.474	5.474	0.000	1243880	0.5000	0.3886	
2	5.770	5.770	0.000	9983114	0.5000	0.4109	
		Average of Peak Amounts =				0.4048	
						RPD = 21.21	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

42-68w/IS@0.5_00009 Amount Added: 1.00 Units: mL

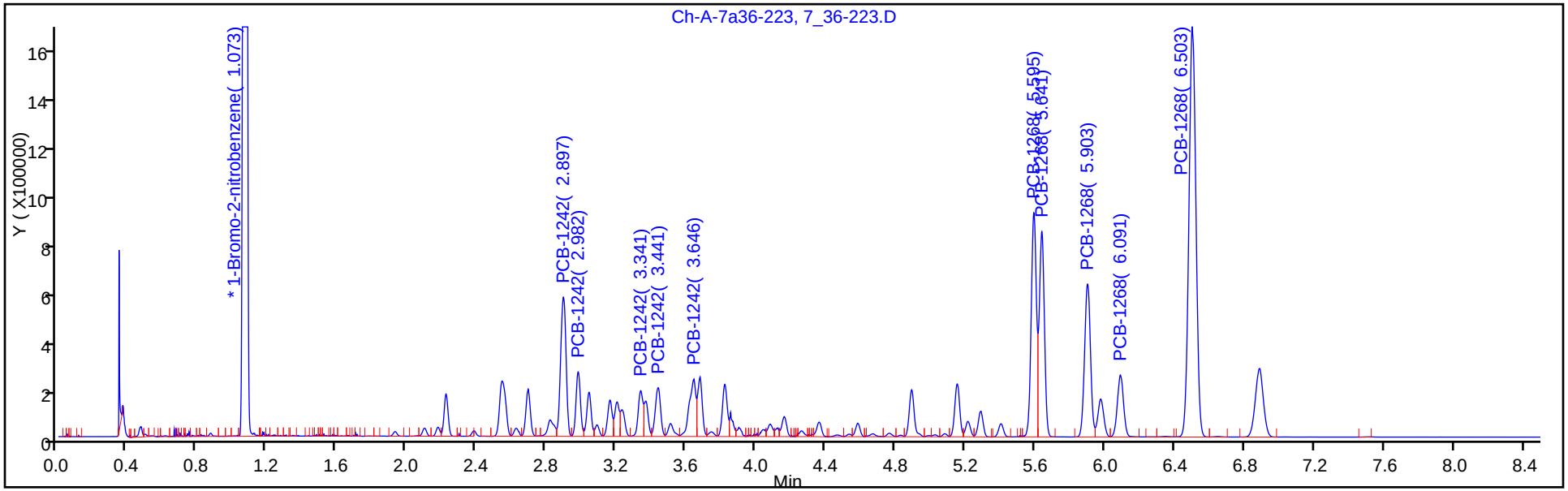
Report Date: 26-Jul-2017 15:16:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

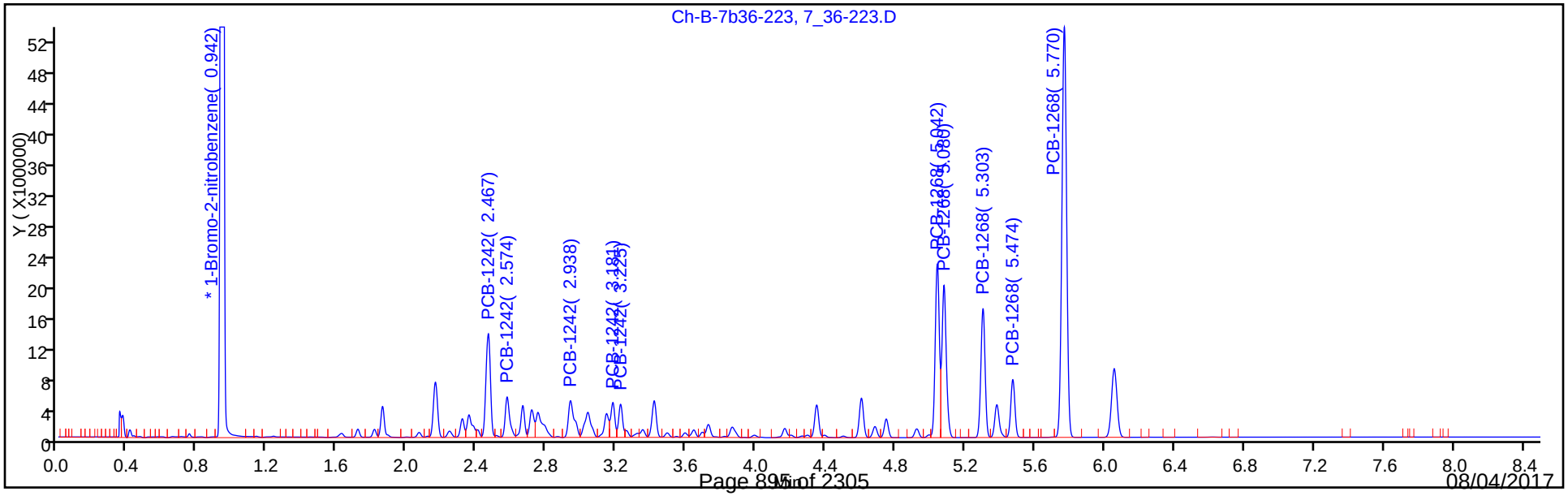
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-223.D

Injection Date:	26-Jul-2017 12:47:12	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/9 Calibration Date: 07/26/2017 12:47

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_36-223.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0576		0.483	0.500	-3.4	20.0
PCB-1242 Peak 2	Lin1		0.0227		0.496	0.500	-0.8	20.0
PCB-1242 Peak 3	Lin1		0.0266		0.490	0.500	-2.0	20.0
PCB-1242 Peak 4	Lin1		0.0175		0.444	0.500	-11.3	20.0
PCB-1242 Peak 5	Lin1		0.0163		0.467	0.500	-6.6	20.0
PCB-1268 Peak 1	Lin1		0.0882		0.411	0.500	-17.8	20.0
PCB-1268 Peak 2	Lin1		0.0817		0.414	0.500	-17.2	20.0
PCB-1268 Peak 3	Lin1		0.0669		0.399	0.500	-20.1*	20.0
PCB-1268 Peak 4	Lin1		0.0296		0.389	0.500	-22.3*	20.0
PCB-1268 Peak 5	Lin1		0.2375		0.411	0.500	-17.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/9 Calibration Date: 07/26/2017 12:47

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_36-223.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.47	2.44	2.50
PCB-1242 Peak 2	2.57	2.54	2.60
PCB-1242 Peak 3	2.94	2.91	2.97
PCB-1242 Peak 4	3.18	3.15	3.21
PCB-1242 Peak 5	3.23	3.20	3.26
PCB-1268 Peak 1	5.04	5.01	5.07
PCB-1268 Peak 2	5.08	5.05	5.11
PCB-1268 Peak 3	5.30	5.27	5.33
PCB-1268 Peak 4	5.47	5.44	5.50
PCB-1268 Peak 5	5.77	5.74	5.80

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-223.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 12:47:12 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:16:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:16:48

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.073	1.073	0.000	16348565	0.5000	0.5000	
2	0.942	0.942	0.000	42030383	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	2.897	2.897	0.000	1167351	0.5000	0.5255	
1	2.982	2.982	0.000	445688	0.5000	0.5334	
1	3.341	3.341	0.000	338889	0.5000	0.5330	
1	3.441	3.441	0.000	400486	0.5000	0.5345	
1	3.646	3.646	0.000	583442	0.5000	0.5479	
		Average of Peak Amounts =				0.5349	
2	2.467	2.467	0.000	2421004	0.5000	0.4832	
2	2.574	2.574	0.000	954552	0.5000	0.4958	
2	2.938	2.938	0.000	1118078	0.5000	0.4900	
2	3.181	3.181	0.000	733977	0.5000	0.4436	
2	3.225	3.225	0.000	686690	0.5000	0.4668	
		Average of Peak Amounts =				0.4759	
						RPD = 11.68	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.595	5.595	0.000	1796081	0.5000	0.5089	
1	5.641	5.641	0.000	1617277	0.5000	0.4957	
1	5.903	5.903	0.000	1404301	0.5000	0.5131	
1	6.091	6.091	0.000	590827	0.5000	0.4818	
1	6.503	6.503	0.000	4432707	0.5000	0.5049	
		Average of Peak Amounts =				0.5009	
2	5.042	5.042	0.000	3708824	0.5000	0.4110	
2	5.080	5.080	0.000	3434807	0.5000	0.4142	
2	5.303	5.303	0.000	2812154	0.5000	0.3995	
2	5.474	5.474	0.000	1243880	0.5000	0.3886	
2	5.770	5.770	0.000	9983114	0.5000	0.4109	
		Average of Peak Amounts =				0.4048	
						RPD = 21.21	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

42-68w/IS@0.5_00009 Amount Added: 1.00 Units: mL

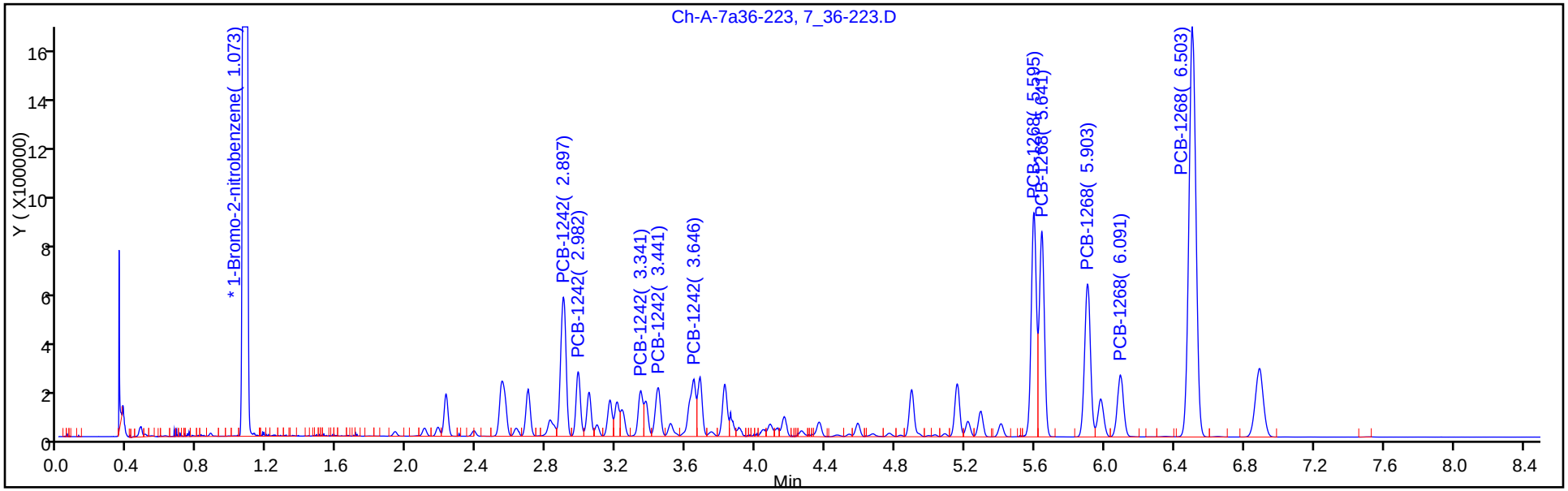
Report Date: 26-Jul-2017 15:16:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

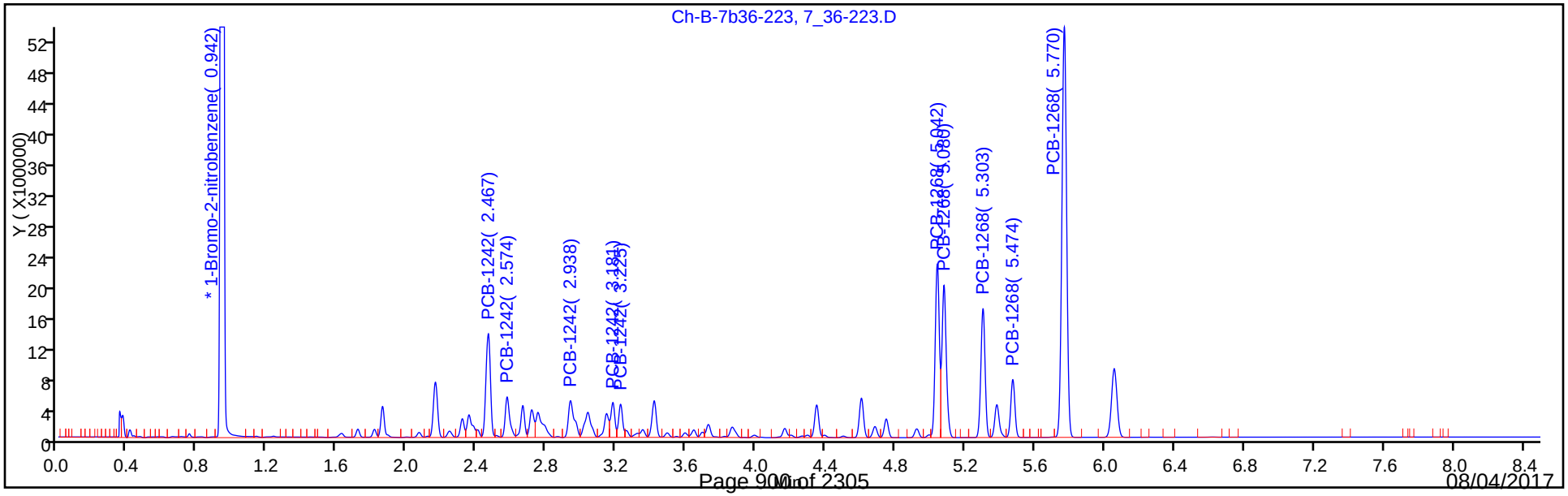
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-223.D

Injection Date:	26-Jul-2017 12:47:12	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/10 Calibration Date: 07/26/2017 13:03

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_36-224.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0475		0.543	0.500	8.6	20.0
PCB-1248 Peak 2	Lin1		0.0372		0.524	0.500	4.7	20.0
PCB-1248 Peak 3	Lin1		0.0600		0.514	0.500	2.7	20.0
PCB-1248 Peak 4	Lin1		0.0443		0.586	0.500	17.2	20.0
PCB-1248 Peak 5	Lin1		0.0373		0.513	0.500	2.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/10 Calibration Date: 07/26/2017 13:03

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_36-224.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.34	3.31	3.37
PCB-1248 Peak 2	3.44	3.41	3.47
PCB-1248 Peak 3	3.64	3.61	3.67
PCB-1248 Peak 4	3.68	3.65	3.71
PCB-1248 Peak 5	3.82	3.79	3.85

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-224.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 13:03:06 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:09 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:09

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.071	1.071	0.000	16039504	0.5000	0.5000	
2	0.941	0.941	0.000	41177745	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	3.338	3.338	0.000	761384	0.5000	0.5429	
1	3.438	3.438	0.000	596211	0.5000	0.5235	
1	3.643	3.643	0.000	962477	0.5000	0.5137	
1	3.678	3.678	0.000	711017	0.5000	0.5861	
1	3.821	3.821	0.000	598943	0.5000	0.5134	
		Average of Peak Amounts =				0.5359	
2	2.936	2.936	0.000	1200478	0.5000	0.5140	M
2	3.036	3.036	0.000	1250797	0.5000	0.5814	
2	3.181	3.181	0.000	1275488	0.5000	0.5672	
2	3.224	3.224	0.000	1062018	0.5000	0.4962	
2	3.417	3.417	0.000	1319488	0.5000	0.5337	
		Average of Peak Amounts =				0.5385	
						RPD = 0.48	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00009 Amount Added: 1.00 Units: mL

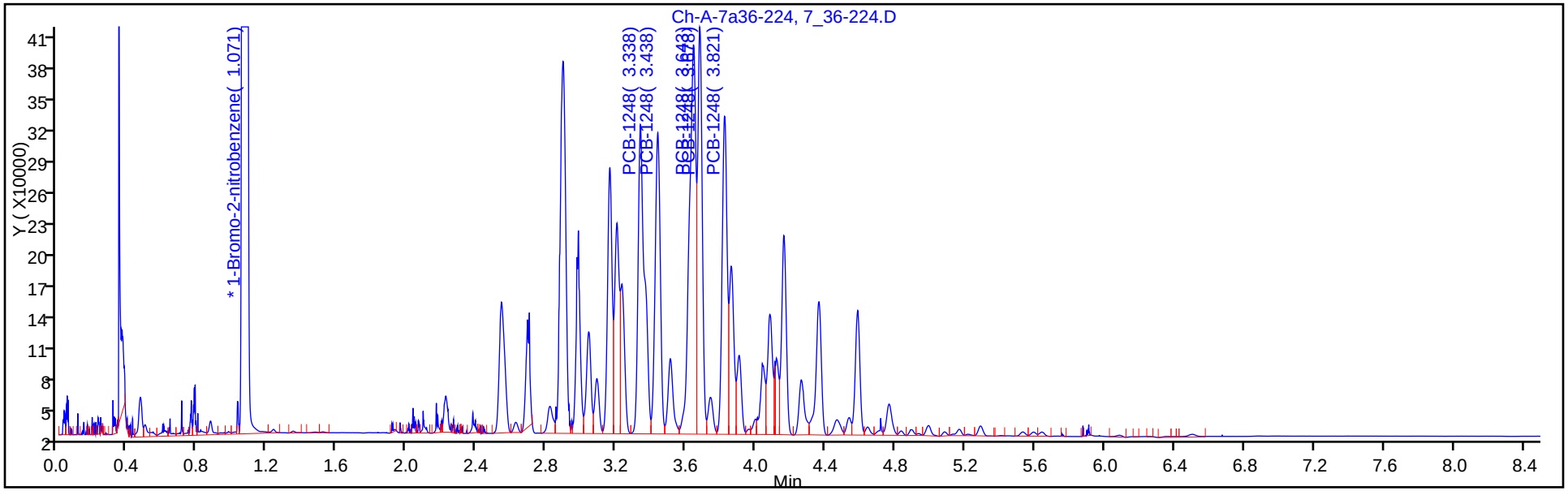
Report Date: 26-Jul-2017 15:17:10 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

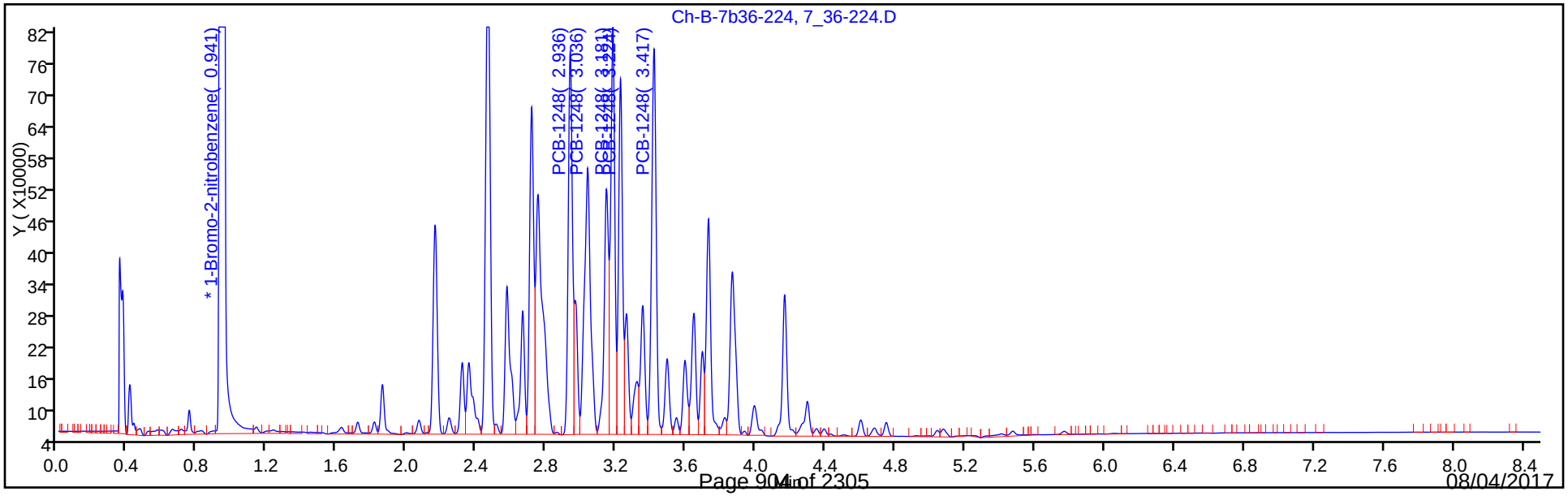
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-224.D

Injection Date:	26-Jul-2017 13:03:06	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/10 Calibration Date: 07/26/2017 13:03

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_36-224.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0292		0.514	0.500	2.8	20.0
PCB-1248 Peak 2	Lin1		0.0304		0.581	0.500	16.3	20.0
PCB-1248 Peak 3	Lin1		0.0310		0.567	0.500	13.4	20.0
PCB-1248 Peak 4	Lin1		0.0258		0.496	0.500	-0.8	20.0
PCB-1248 Peak 5	Lin1		0.0320		0.534	0.500	6.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: CCV 480-368775/10 Calibration Date: 07/26/2017 13:03

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_36-224.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	2.94	2.91	2.97
PCB-1248 Peak 2	3.04	3.01	3.07
PCB-1248 Peak 3	3.18	3.15	3.21
PCB-1248 Peak 4	3.22	3.19	3.25
PCB-1248 Peak 5	3.42	3.39	3.45

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-224.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 26-Jul-2017 13:03:06 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:09 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:09

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.071	1.071	0.000	16039504	0.5000	0.5000	
2	0.941	0.941	0.000	41177745	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	3.338	3.338	0.000	761384	0.5000	0.5429	
1	3.438	3.438	0.000	596211	0.5000	0.5235	
1	3.643	3.643	0.000	962477	0.5000	0.5137	
1	3.678	3.678	0.000	711017	0.5000	0.5861	
1	3.821	3.821	0.000	598943	0.5000	0.5134	
		Average of Peak Amounts =				0.5359	
2	2.936	2.936	0.000	1200478	0.5000	0.5140	M
2	3.036	3.036	0.000	1250797	0.5000	0.5814	
2	3.181	3.181	0.000	1275488	0.5000	0.5672	
2	3.224	3.224	0.000	1062018	0.5000	0.4962	
2	3.417	3.417	0.000	1319488	0.5000	0.5337	
		Average of Peak Amounts =				0.5385	
						RPD = 0.48	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ 0.5_00009 Amount Added: 1.00 Units: mL

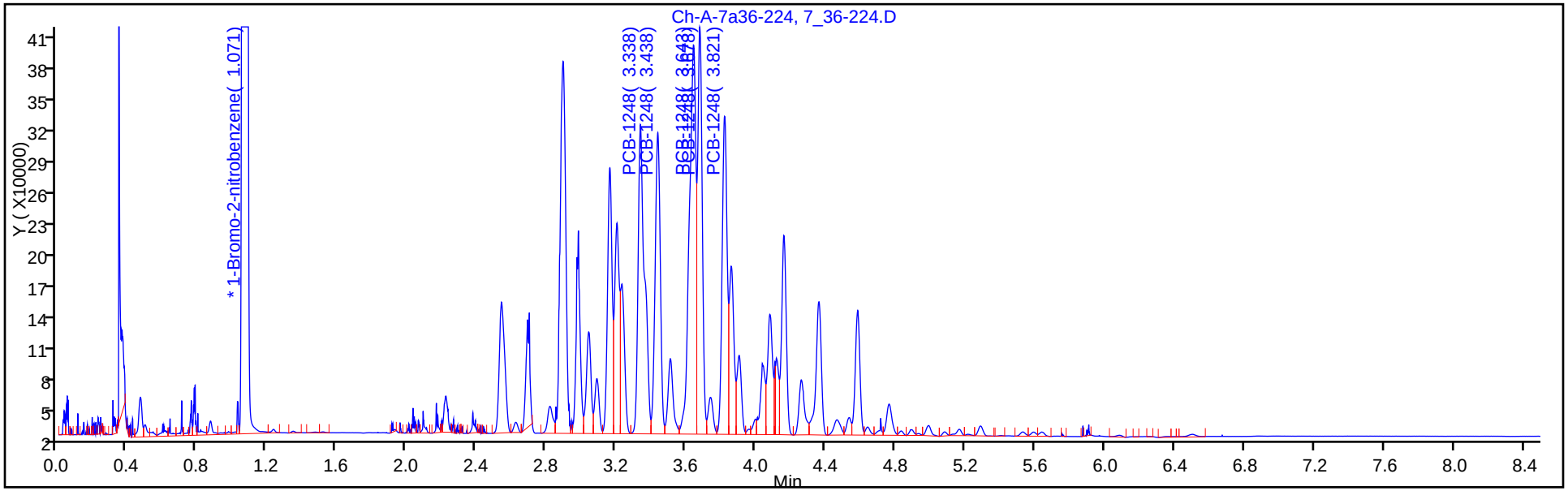
Report Date: 26-Jul-2017 15:17:10 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

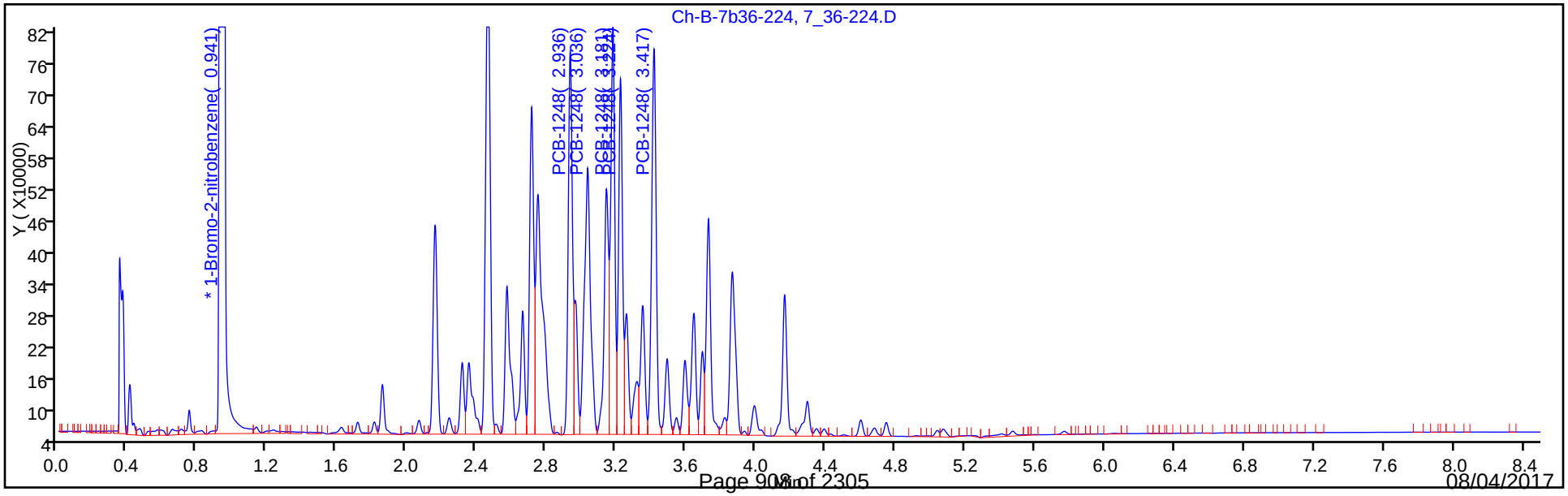
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-224.D

Injection Date:	26-Jul-2017 13:03:06	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 26-Jul-2017 15:17:11 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-224.D

Injection Date: 26-Jul-2017 13:03:06 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

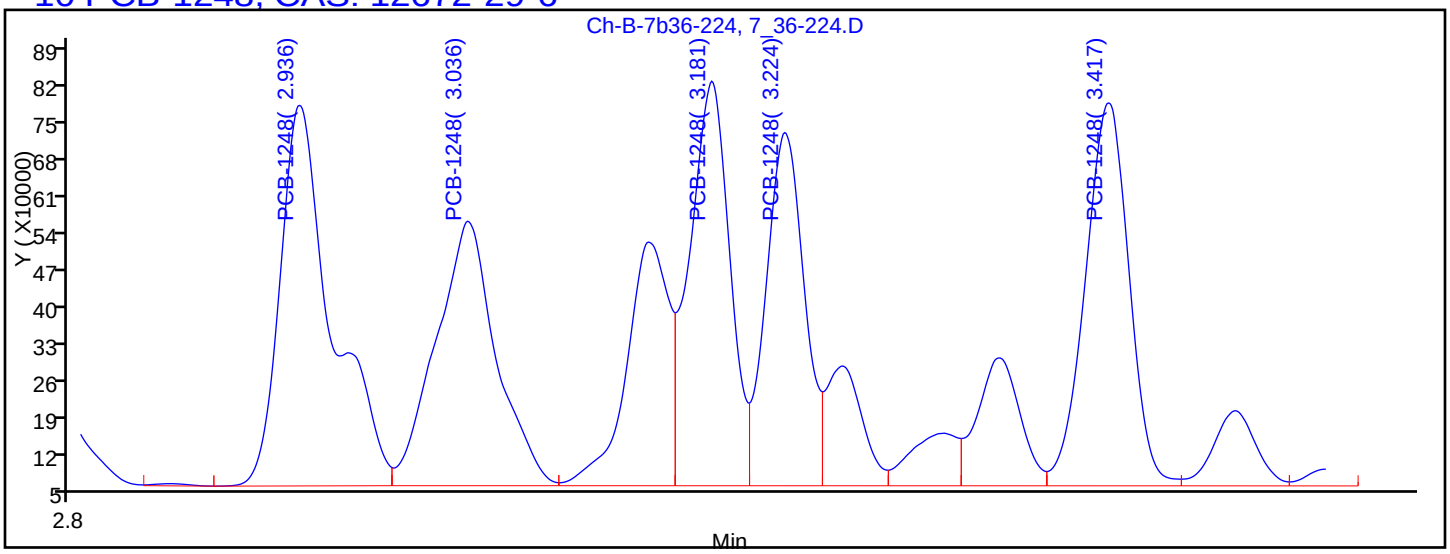
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

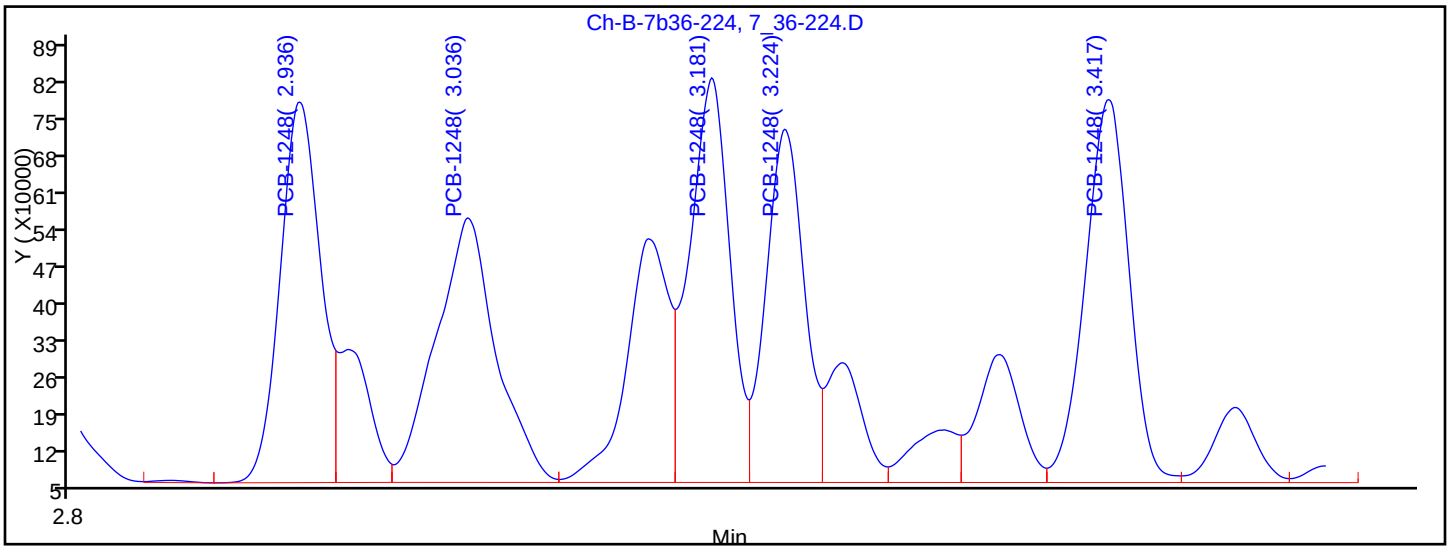
Column: Detector Ch-B-7b136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

2.936	Response = 1543742
3.036	Response = 1250797
3.181	Response = 1275488
3.224	Response = 1062018
3.417	Response = 1319488



Manual Integration Results

2.936	Response = 1200478	M
3.036	Response = 1250797	
3.181	Response = 1275488	
3.224	Response = 1062018	
3.417	Response = 1319488	

Reviewer: owenj, 26-Jul-2017 13:34:08

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368612/1-A

Matrix: Solid | Lab File ID: 7_36-226.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.24(g) | Date Analyzed: 07/26/2017 13:35

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	159	X	60-154
2051-24-3	DCB Decachlorobiphenyl	157		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-226.D
Lims ID: MB 480-368612/1-A
Client ID:
Sample Type: MB
Inject. Date: 26-Jul-2017 13:35:15 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:31 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:31

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.001	13475209	0.5000	0.5000	
2	0.943	0.941	0.001	37396257	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.965	1.966	-0.001	1037957	0.0200	0.0317	
2	1.493	1.491	0.002	2264026	0.0200	0.0272	
						RPD = 15.51	
3 1260 Res 3							
1	5.556	5.538	0.018	1461		NC	
2	4.737	4.740	-0.003	8226		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.886	6.907	-0.021	589389	0.0200	0.0314	
2	6.055	6.056	-0.001	1455672	0.0200	0.0270	
						RPD = 15.00	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

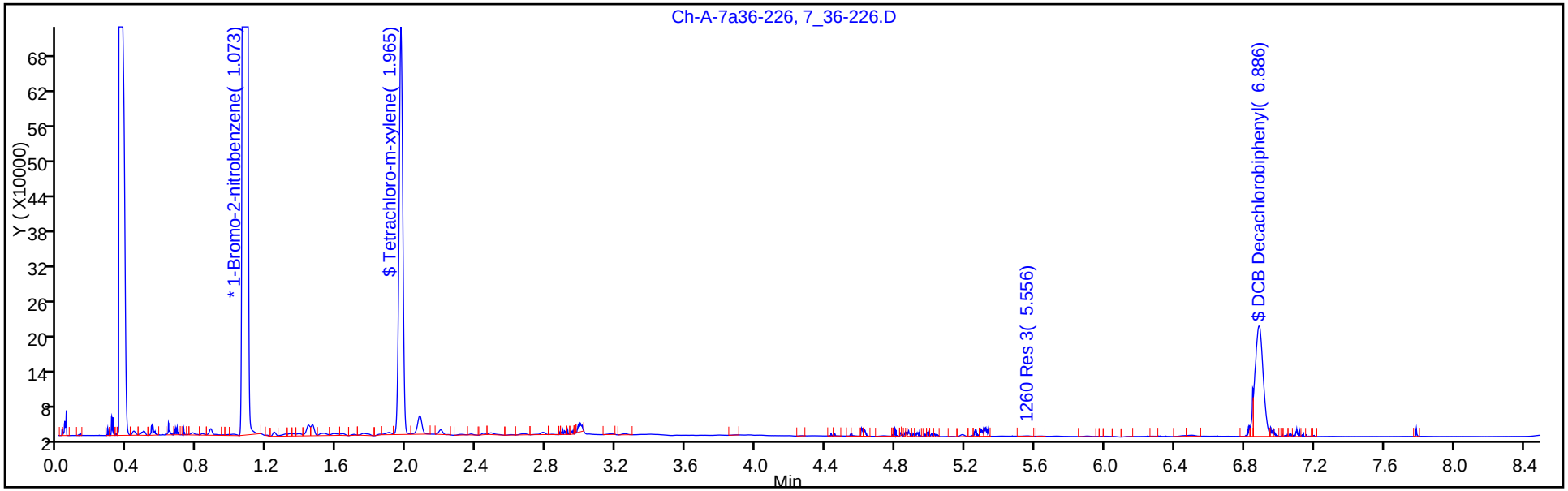
Report Date: 26-Jul-2017 15:17:31 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

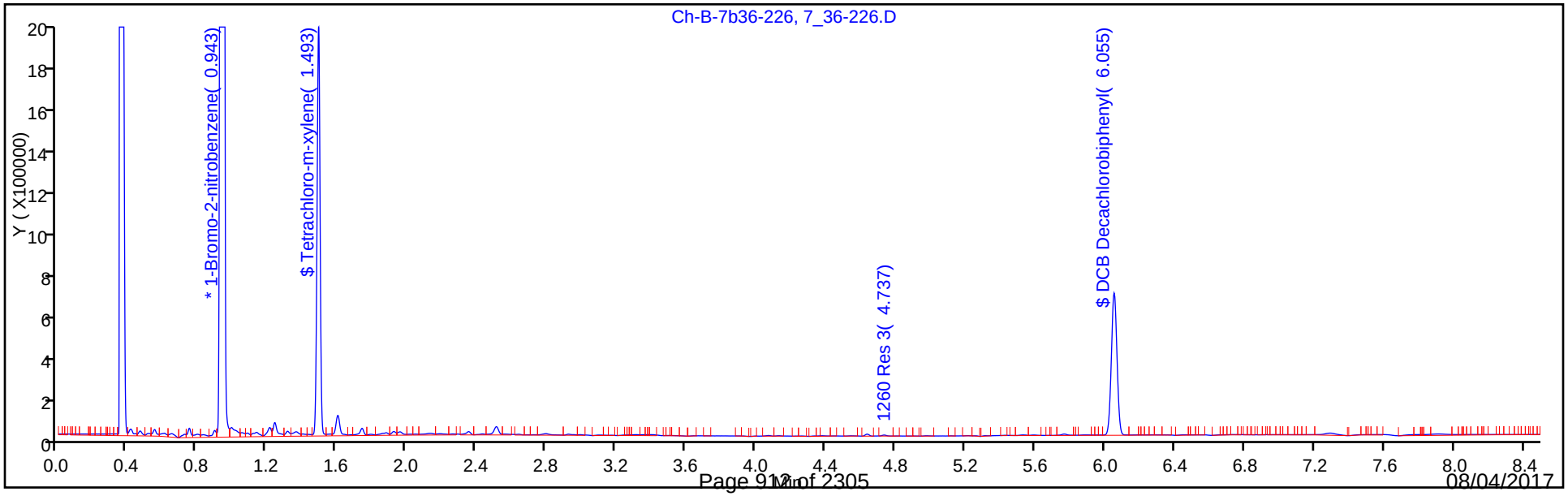
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-226.D

Injection Date:	26-Jul-2017 13:35:15	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	MB 480-368612/1-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-368612/1-A

Matrix: Solid | Lab File ID: 7_36-226.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.24(g) | Date Analyzed: 07/26/2017 13:35

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.22	0.044
11104-28-2	PCB-1221	ND		0.22	0.044
11141-16-5	PCB-1232	ND		0.22	0.044
53469-21-9	PCB-1242	ND		0.22	0.044
12672-29-6	PCB-1248	ND		0.22	0.044
11097-69-1	PCB-1254	ND		0.22	0.10
11096-82-5	PCB-1260	ND		0.22	0.10
37324-23-5	PCB-1262	ND		0.22	0.10
11100-14-4	PCB-1268	ND		0.22	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	136		60-154
2051-24-3	DCB Decachlorobiphenyl	135		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-226.D
Lims ID: MB 480-368612/1-A
Client ID:
Sample Type: MB
Inject. Date: 26-Jul-2017 13:35:15 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:31 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:31

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.001	13475209	0.5000	0.5000	
2	0.943	0.941	0.001	37396257	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.965	1.966	-0.001	1037957	0.0200	0.0317	
2	1.493	1.491	0.002	2264026	0.0200	0.0272	
						RPD = 15.51	
3 1260 Res 3							
1	5.556	5.538	0.018	1461		NC	
2	4.737	4.740	-0.003	8226		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.886	6.907	-0.021	589389	0.0200	0.0314	
2	6.055	6.056	-0.001	1455672	0.0200	0.0270	
						RPD = 15.00	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

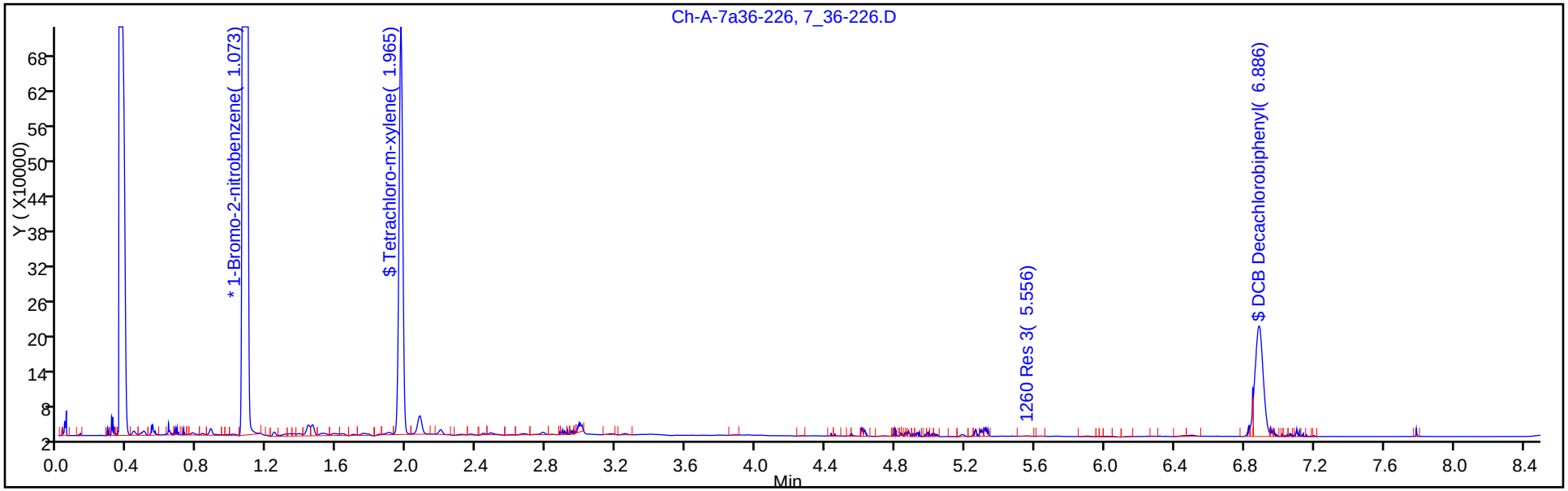
Report Date: 26-Jul-2017 15:17:32 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

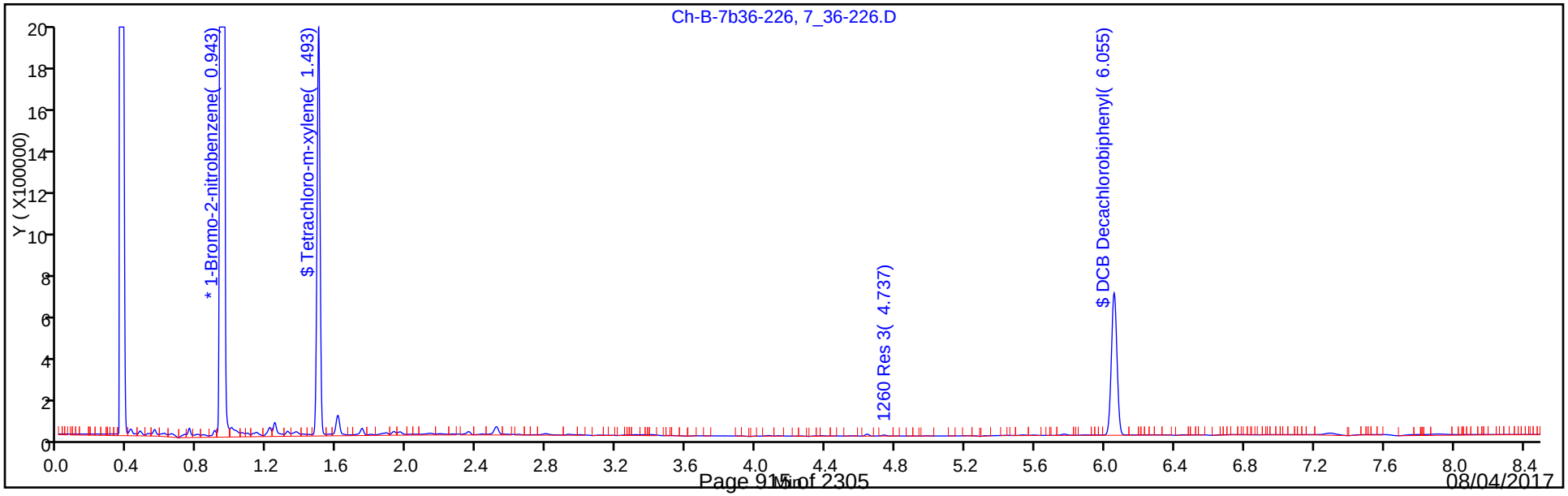
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-226.D

Injection Date:	26-Jul-2017 13:35:15	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	MB 480-368612/1-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368612/2-A

Matrix: Solid | Lab File ID: 7_36-227.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.21(g) | Date Analyzed: 07/26/2017 13:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	170	X	60-154
2051-24-3	DCB Decachlorobiphenyl	186	X	65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D
Lims ID: LCS 480-368612/2-A
Client ID:
Sample Type: LCS
Inject. Date: 26-Jul-2017 13:51:27 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:53 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.001	12384866	0.5000	0.5000	
2	0.942	0.941	0.001	34904387	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.965	1.966	-0.001	1022375	0.0200	0.0340	M
2	1.493	1.491	0.001	2115918	0.0200	0.0272	M
						RPD = 22.34	
9 PCB-1016							M
1	2.544	2.544	0.000	737890	0.5000	0.7952	M
1	2.693	2.691	0.002	465759	0.5000	0.8172	M
1	2.898	2.893	0.005	1769133	0.5000	0.8908	M
1	2.981	2.980	0.001	668926	0.5000	0.9038	M
1	3.043	3.041	0.002	454909	0.5000	0.8865	M
		Average of Peak Amounts =				0.8587	
2	2.163	2.163	0.000	1809213	0.5000	0.7722	M
2	2.465	2.466	-0.001	3777434	0.5000	0.7654	M
2	2.574	2.573	0.001	1471314	0.5000	0.7884	M
2	2.663	2.663	0.000	971029	0.5000	0.7730	M
2	2.937	2.936	0.001	1688393	0.5000	0.7838	M
		Average of Peak Amounts =				0.7766	
						RPD = 10.05	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.763	4.764	-0.001	1419510	0.5000	0.9155	M
1	4.893	4.893	0.000	798422	0.5000	0.9169	M
1	5.084	5.083	0.002	731060	0.5000	0.8888	M
1	5.290	5.288	0.002	1887703	0.5000	0.9123	M
1	5.531	5.532	-0.001	850748	0.5000	0.8691	M
		Average of Peak Amounts =				0.9005	
2	4.295	4.295	0.000	1900184	0.5000	0.7612	M
2	4.349	4.349	0.000	1591766	0.5000	0.6975	M
2	4.671	4.672	-0.001	1241398	0.5000	0.6963	M
2	4.748	4.748	0.000	4027500	0.5000	0.7024	M
2	5.076	5.074	0.002	2498410	0.5000	0.7204	M
		Average of Peak Amounts =				0.7156	
						RPD = 22.89	
$ 15 DCB Decachlorobiphenyl							
1	6.884	6.907	-0.023	640338	0.0200	0.0372	
2	6.056	6.056	0.000	1446876	0.0200	0.0288	
						RPD = 25.57	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 26-Jul-2017 15:17:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7 Operator ID: BufTCHROM

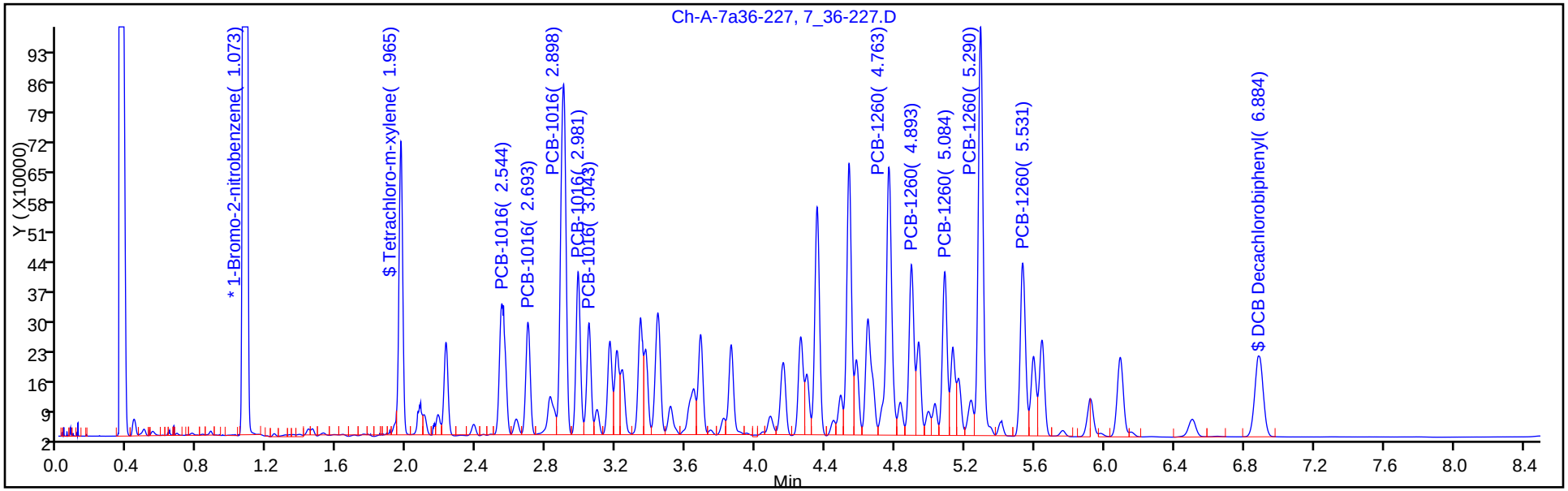
Lims ID: LCS 480-368612/2-A Worklist Smp#: 13

Client ID:

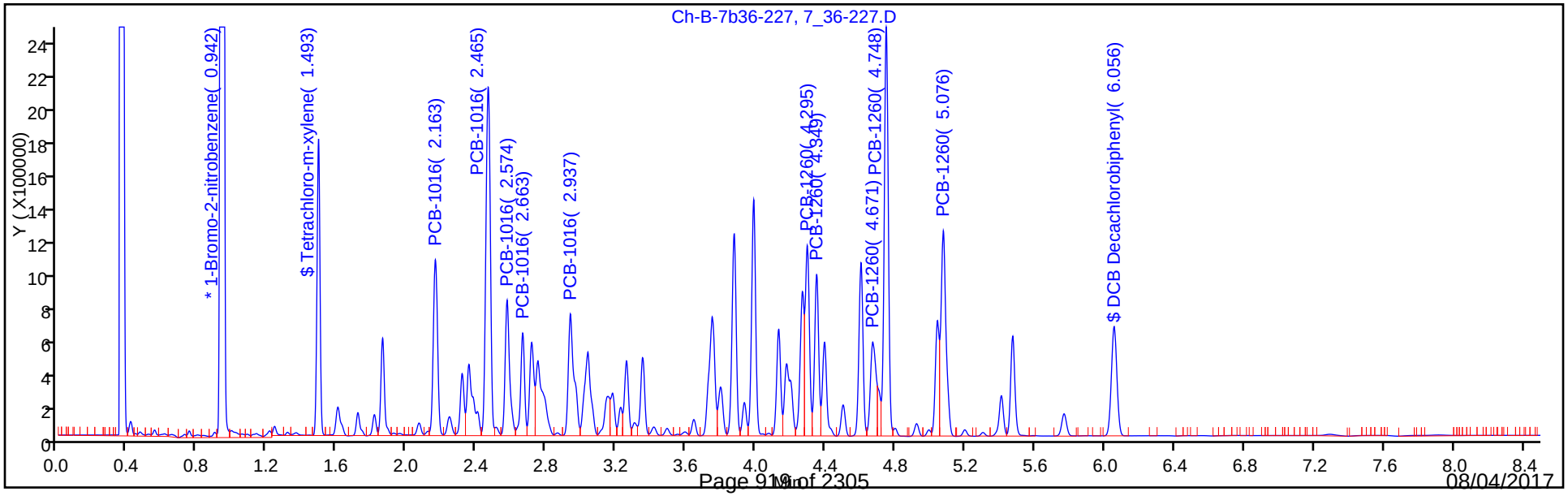
Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 0

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 26-Jul-2017 15:17:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7

Lims ID: LCS 480-368612/2-A

Client ID:

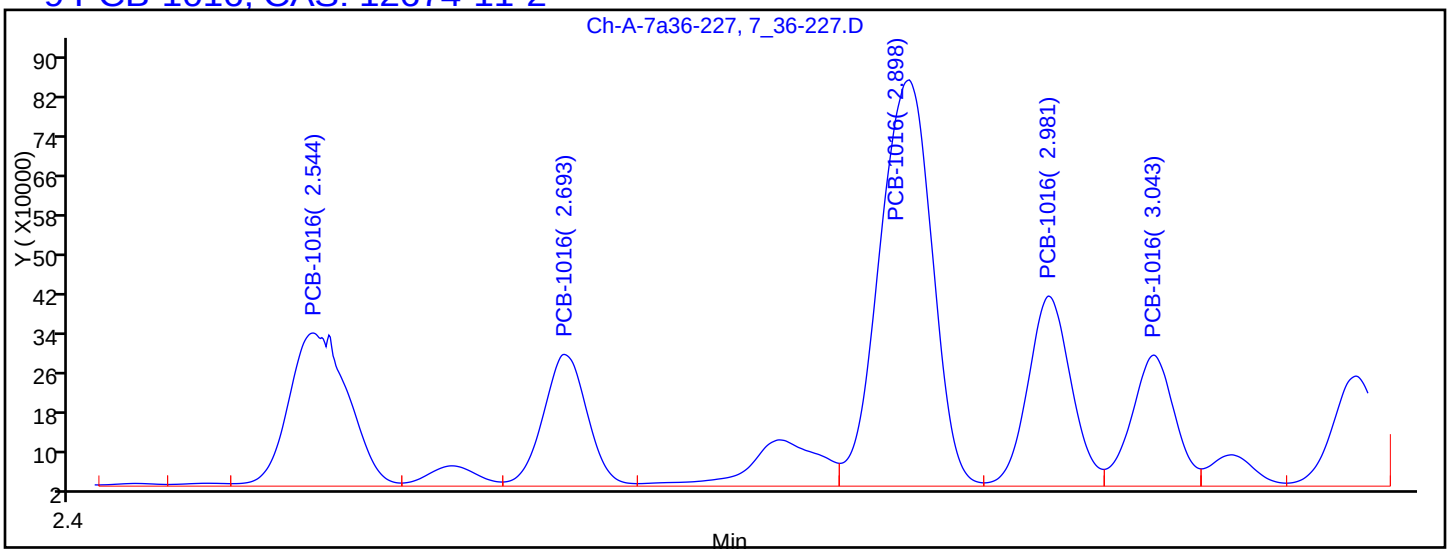
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

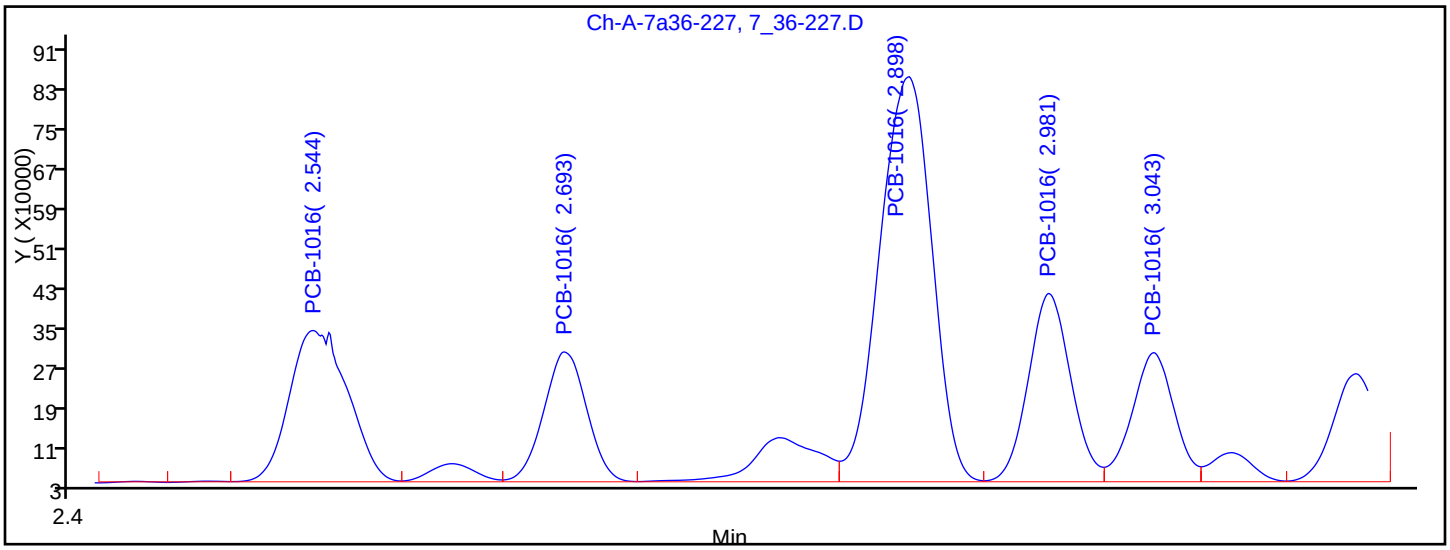
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.544	Response = 765633
2.693	Response = 487803
2.898	Response = 1793090
2.981	Response = 689031
3.043	Response = 471105



Manual Integration Results

2.544	Response = 737890	M
2.693	Response = 465759	M
2.898	Response = 1769133	M
2.981	Response = 668926	M
3.043	Response = 454909	M

Reviewer: owenj, 26-Jul-2017 14:19:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 26-Jul-2017 15:17:54 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7

Lims ID: LCS 480-368612/2-A

Client ID:

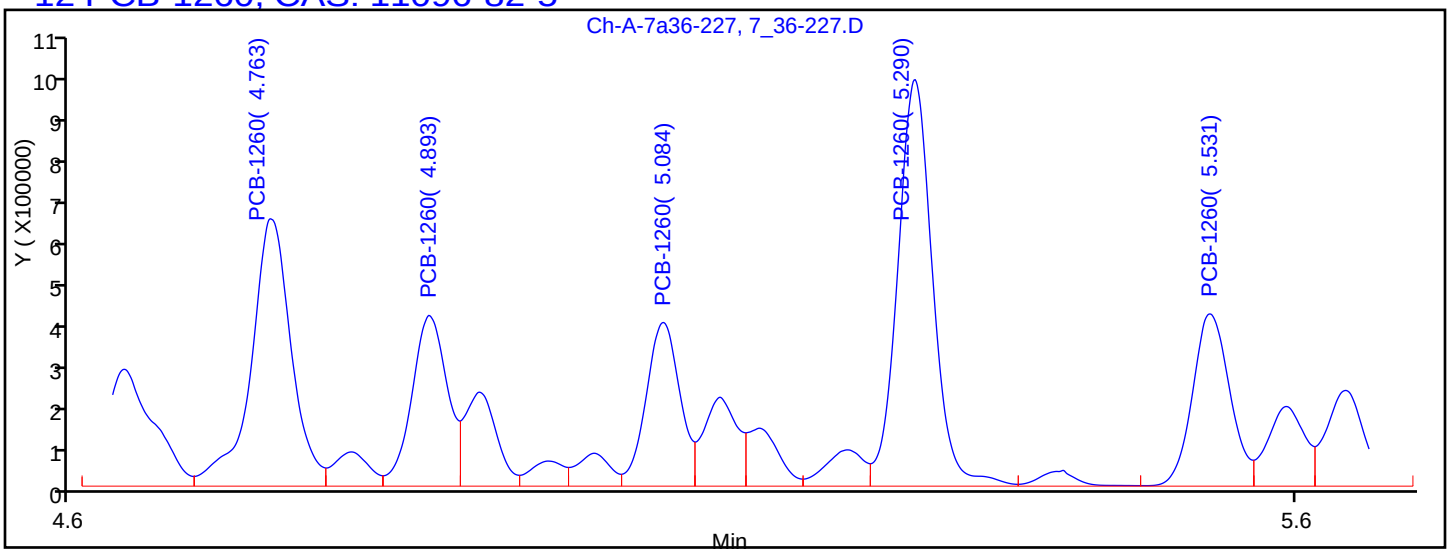
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

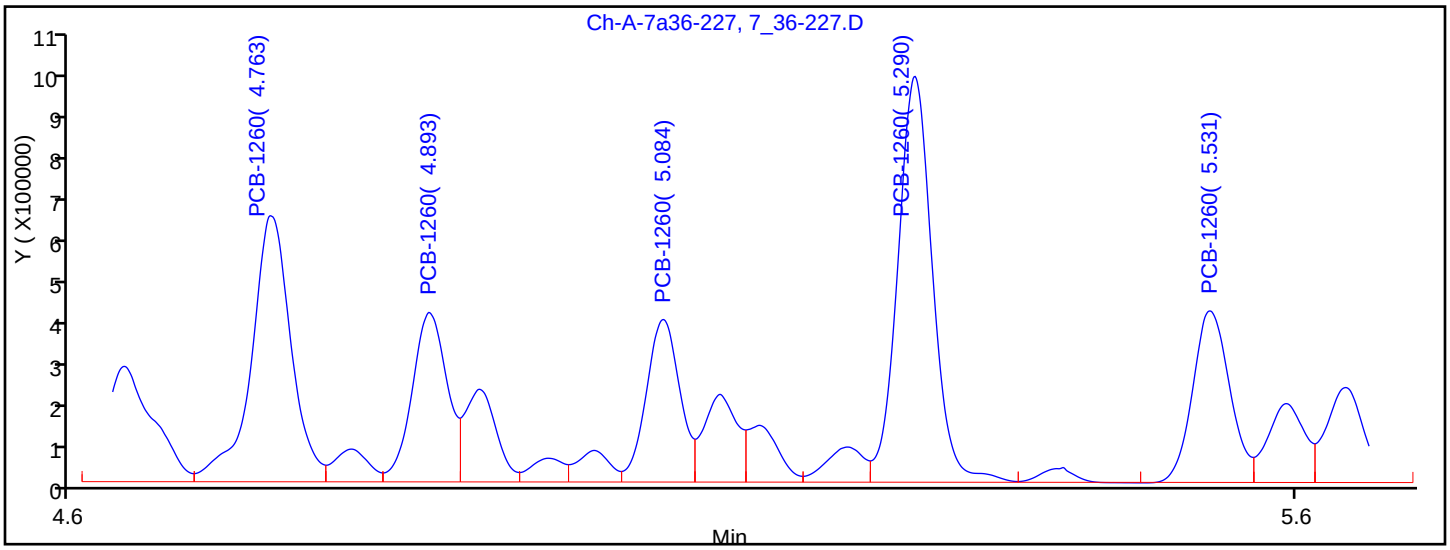
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.763	Response = 1443621
4.893	Response = 811632
5.084	Response = 742202
5.290	Response = 1906796
5.531	Response = 863099



Manual Integration Results

4.763	Response = 1419510	M
4.893	Response = 798422	M
5.084	Response = 731060	M
5.290	Response = 1887703	M
5.531	Response = 850748	M

Reviewer: owenj, 26-Jul-2017 14:19:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

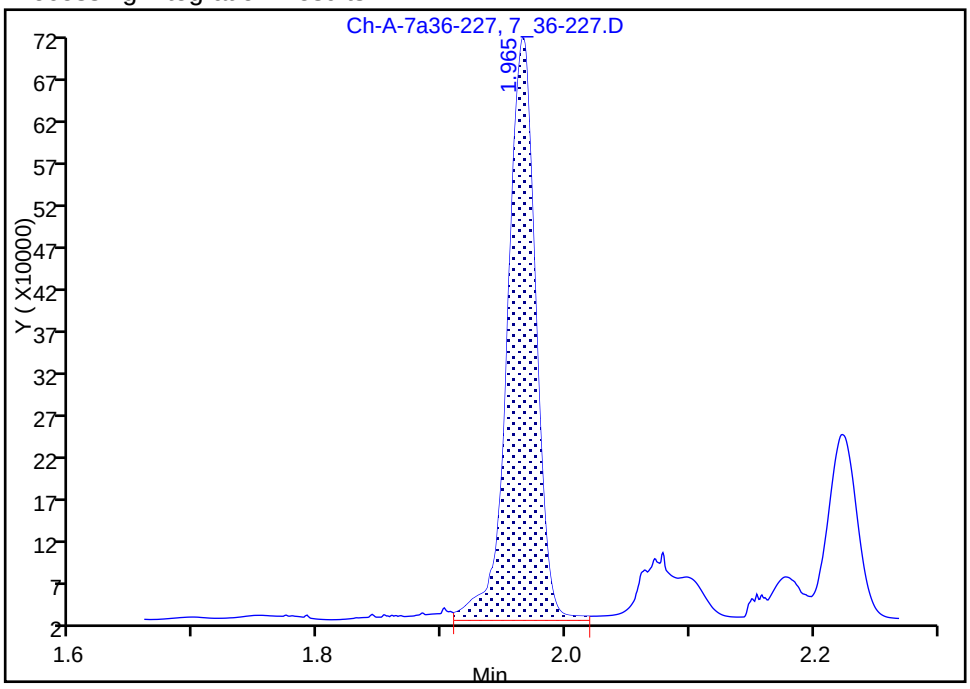
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D
Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7
Lims ID: LCS 480-368612/2-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

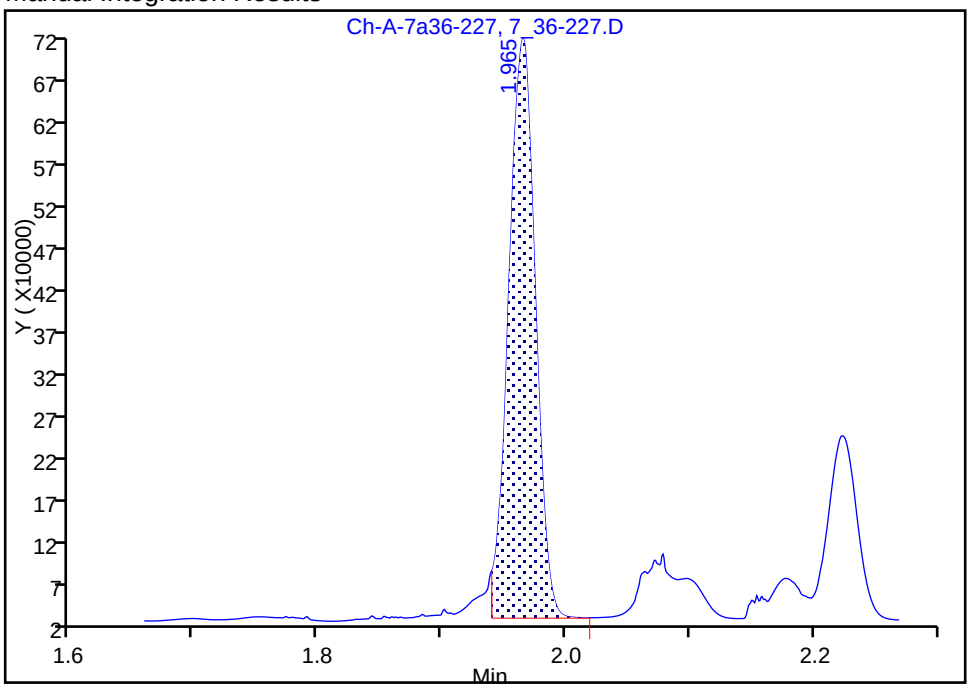
Processing Integration Results

RT: 1.97
Area: 1090215
Amount: 0.036327
Amount Units: ng/uL



Manual Integration Results

RT: 1.97
Area: 1022375
Amount: 0.034037
Amount Units: ng/uL



Reviewer: owenj, 26-Jul-2017 14:20:42
Audit Action: Split an Integrated Peak Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-368612/2-A

Matrix: Solid | Lab File ID: 7_36-227.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.21(g) | Date Analyzed: 07/26/2017 13:51

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.51		0.23	0.044
11096-82-5	PCB-1260	3.24		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	136		60-154
2051-24-3	DCB Decachlorobiphenyl	144		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D
Lims ID: LCS 480-368612/2-A
Client ID:
Sample Type: LCS
Inject. Date: 26-Jul-2017 13:51:27 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:17:53 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:17:53

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.001	12384866	0.5000	0.5000	
2	0.942	0.941	0.001	34904387	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.965	1.966	-0.001	1022375	0.0200	0.0340	M
2	1.493	1.491	0.001	2115918	0.0200	0.0272	M
						RPD = 22.34	
9 PCB-1016							M
1	2.544	2.544	0.000	737890	0.5000	0.7952	M
1	2.693	2.691	0.002	465759	0.5000	0.8172	M
1	2.898	2.893	0.005	1769133	0.5000	0.8908	M
1	2.981	2.980	0.001	668926	0.5000	0.9038	M
1	3.043	3.041	0.002	454909	0.5000	0.8865	M
		Average of Peak Amounts =				0.8587	
2	2.163	2.163	0.000	1809213	0.5000	0.7722	M
2	2.465	2.466	-0.001	3777434	0.5000	0.7654	M
2	2.574	2.573	0.001	1471314	0.5000	0.7884	M
2	2.663	2.663	0.000	971029	0.5000	0.7730	M
2	2.937	2.936	0.001	1688393	0.5000	0.7838	M
		Average of Peak Amounts =				0.7766	
						RPD = 10.05	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.763	4.764	-0.001	1419510	0.5000	0.9155	M
1	4.893	4.893	0.000	798422	0.5000	0.9169	M
1	5.084	5.083	0.002	731060	0.5000	0.8888	M
1	5.290	5.288	0.002	1887703	0.5000	0.9123	M
1	5.531	5.532	-0.001	850748	0.5000	0.8691	M
		Average of Peak Amounts =				0.9005	
2	4.295	4.295	0.000	1900184	0.5000	0.7612	M
2	4.349	4.349	0.000	1591766	0.5000	0.6975	M
2	4.671	4.672	-0.001	1241398	0.5000	0.6963	M
2	4.748	4.748	0.000	4027500	0.5000	0.7024	M
2	5.076	5.074	0.002	2498410	0.5000	0.7204	M
		Average of Peak Amounts =				0.7156	
						RPD = 22.89	
$ 15 DCB Decachlorobiphenyl							
1	6.884	6.907	-0.023	640338	0.0200	0.0372	
2	6.056	6.056	0.000	1446876	0.0200	0.0288	
						RPD = 25.57	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

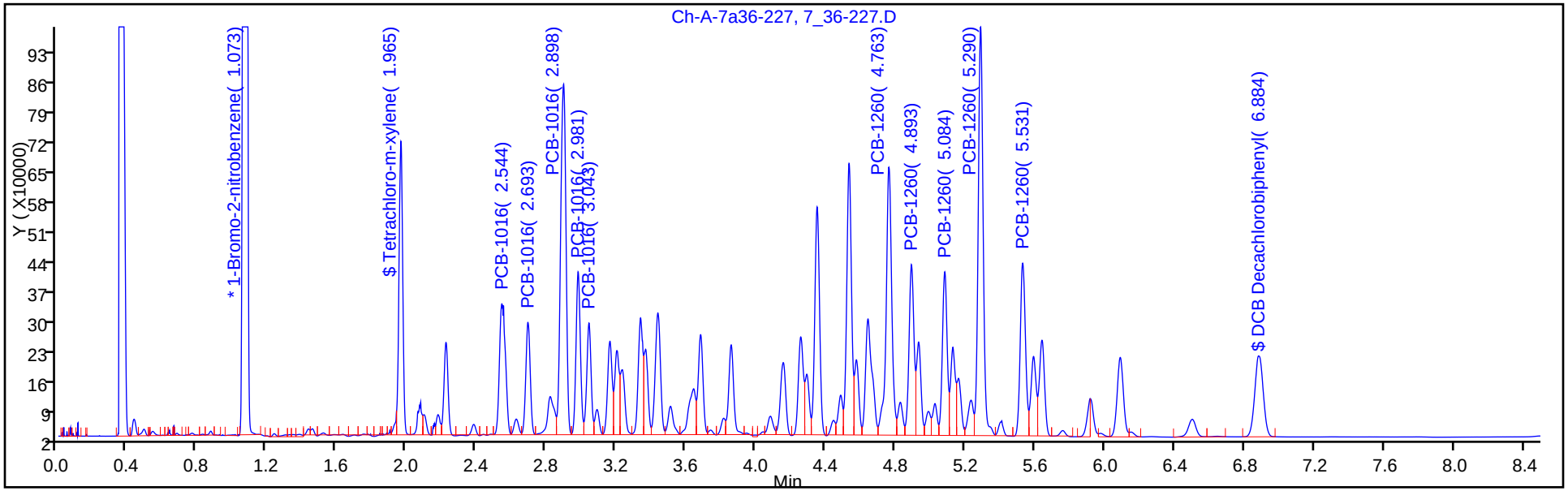
Report Date: 26-Jul-2017 15:17:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

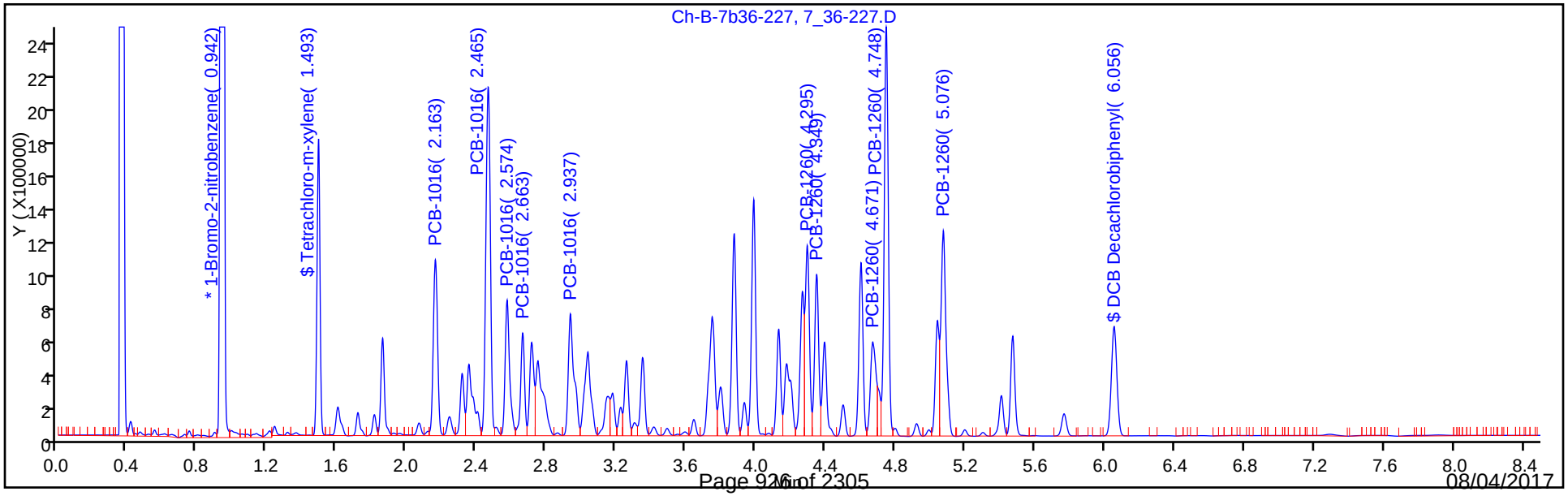
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date:	26-Jul-2017 13:51:27	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	LCS 480-368612/2-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 26-Jul-2017 15:17:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7

Lims ID: LCS 480-368612/2-A

Client ID:

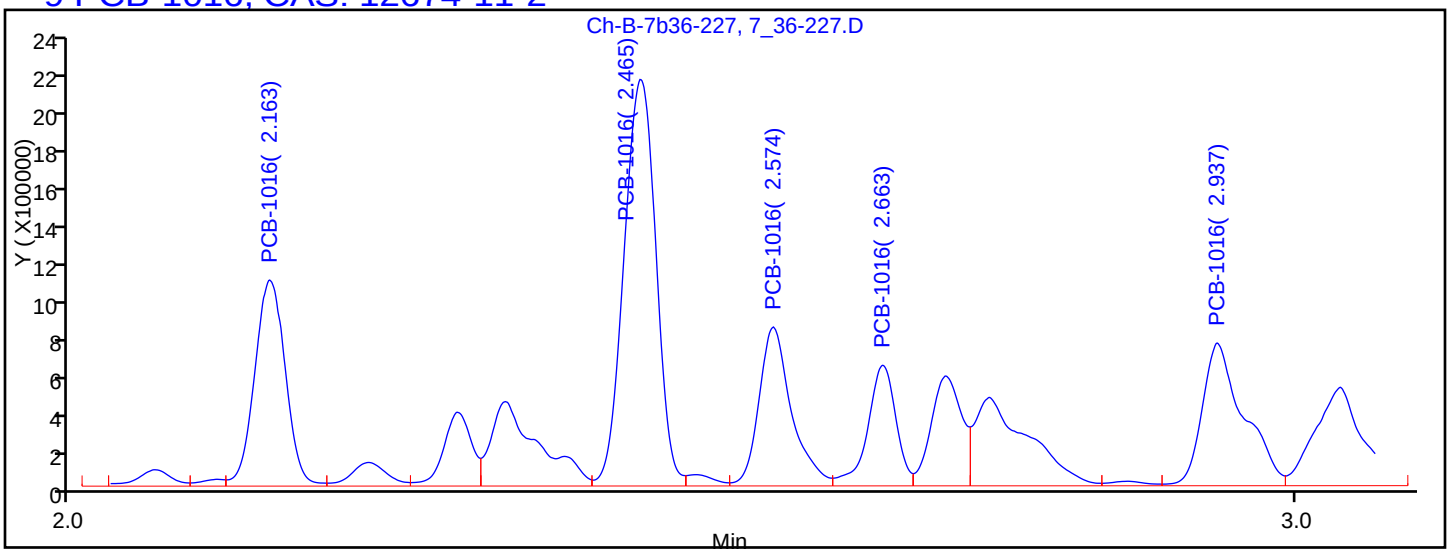
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

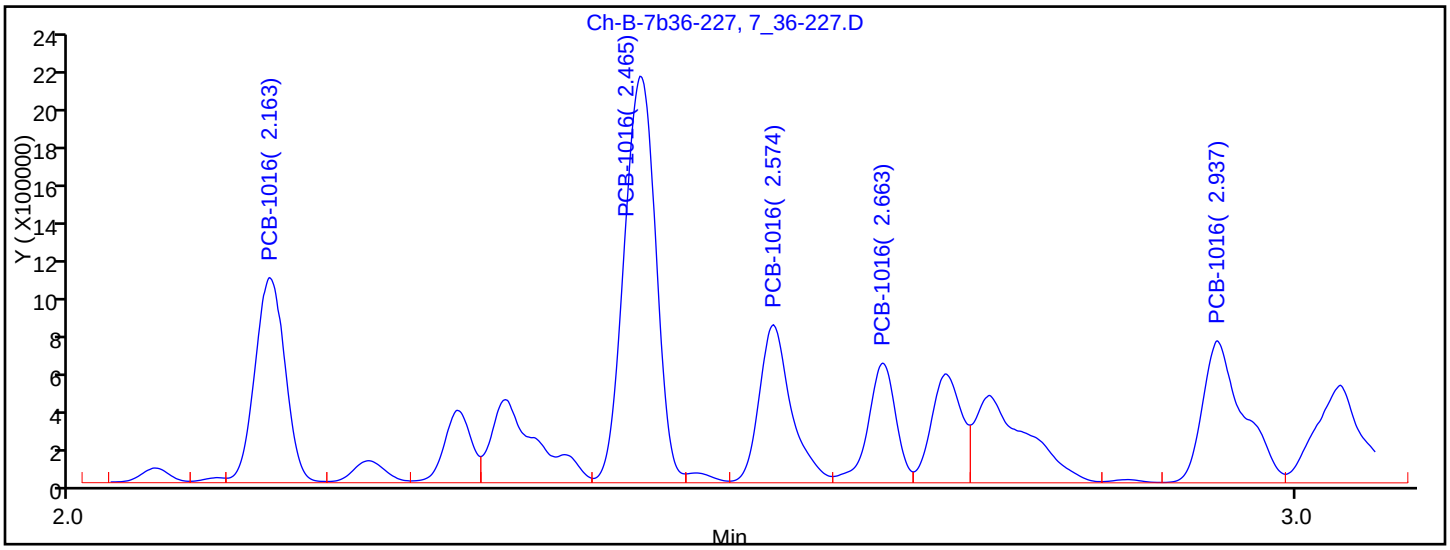
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.163	Response = 1853035
2.465	Response = 3814204
2.574	Response = 1509570
2.663	Response = 999941
2.937	Response = 1726642



Manual Integration Results

2.163	Response = 1809213	M
2.465	Response = 3777434	M
2.574	Response = 1471314	M
2.663	Response = 971029	M
2.937	Response = 1688393	M

Reviewer: owenj, 26-Jul-2017 14:20:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 26-Jul-2017 15:17:55 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D

Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7

Lims ID: LCS 480-368612/2-A

Client ID:

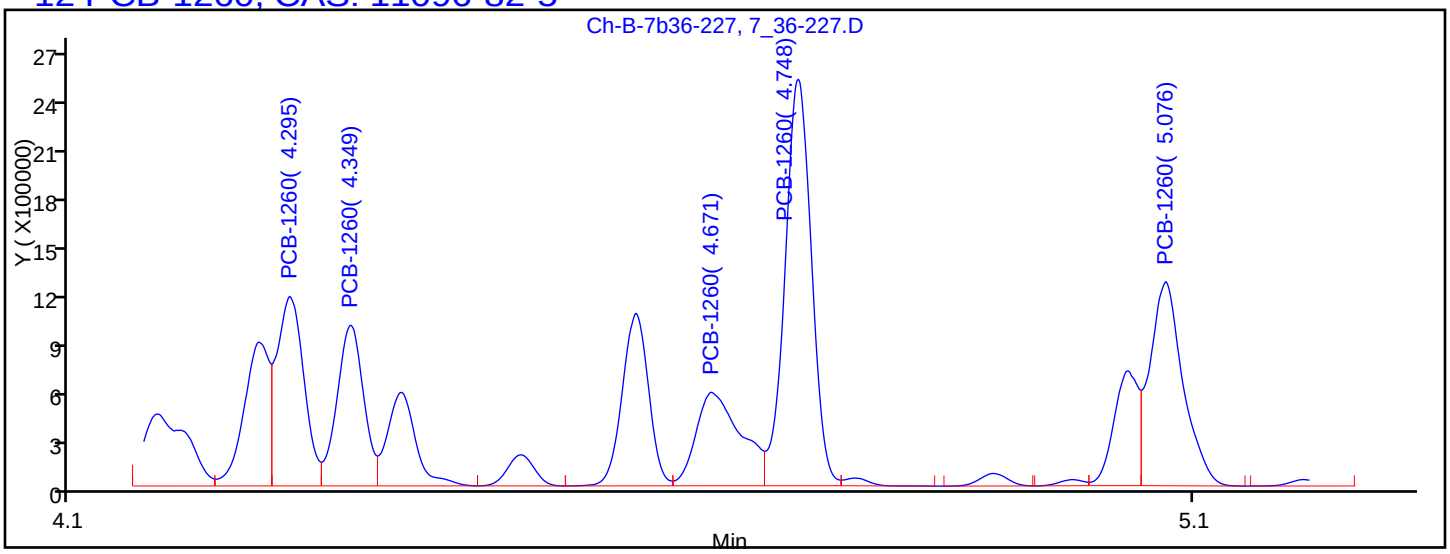
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

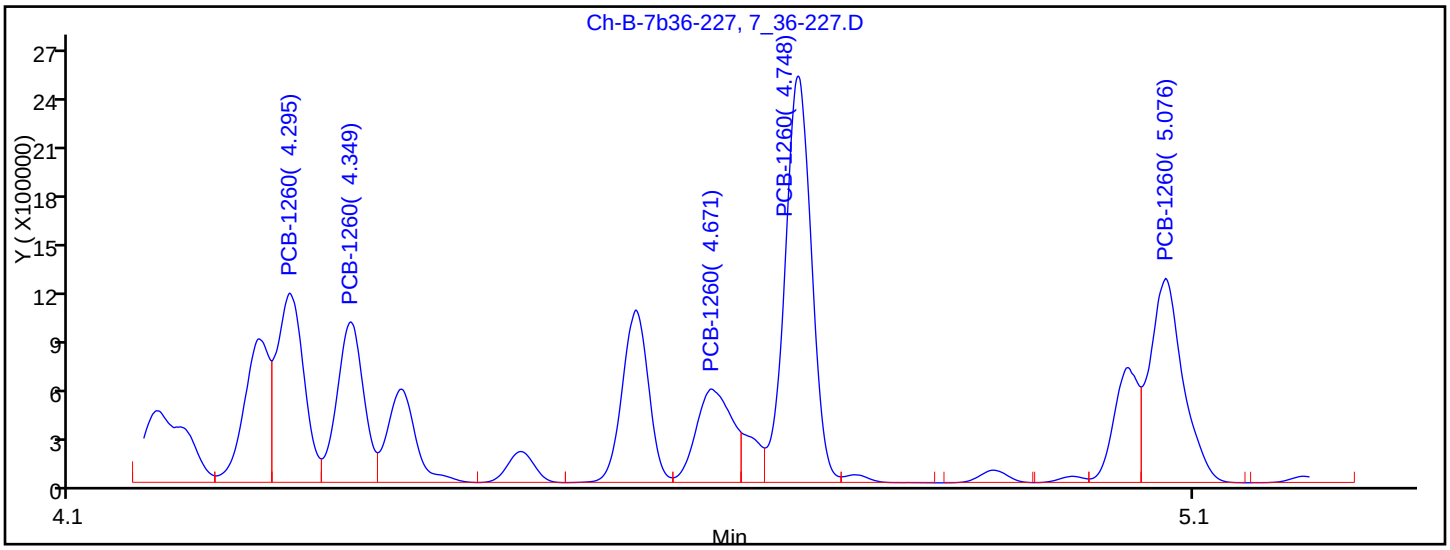
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.295	Response = 1905226
4.349	Response = 1597076
4.671	Response = 1567679
4.748	Response = 4029577
5.076	Response = 2503363



Manual Integration Results

4.295	Response = 1900184	M
4.349	Response = 1591766	M
4.671	Response = 1241398	M
4.748	Response = 4027500	M
5.076	Response = 2498410	M

Reviewer: owenj, 26-Jul-2017 14:20:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

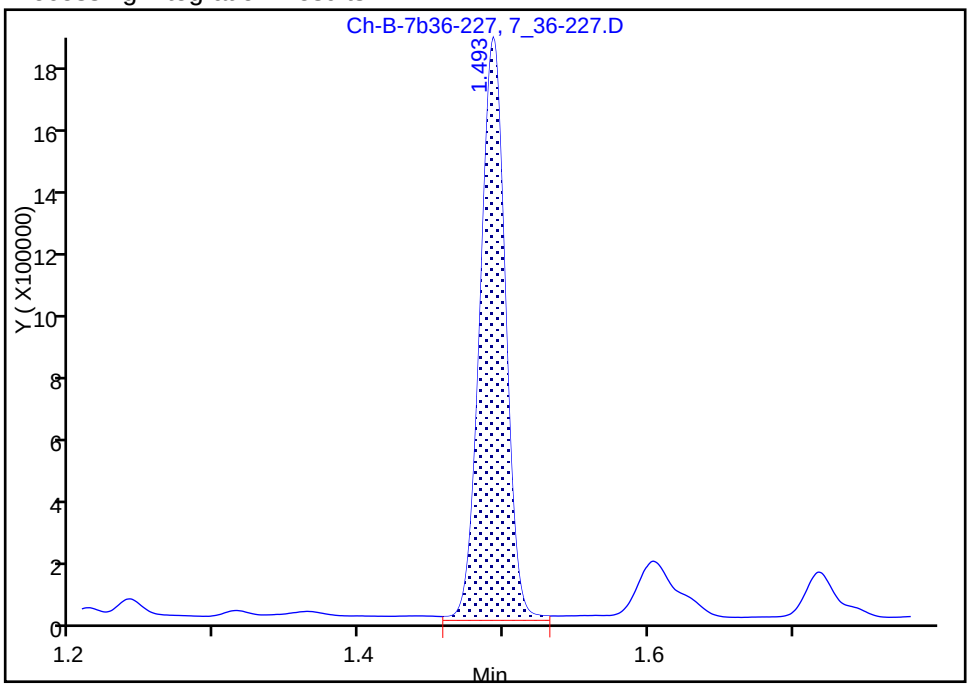
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-227.D
Injection Date: 26-Jul-2017 13:51:27 Instrument ID: HP6890-7
Lims ID: LCS 480-368612/2-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

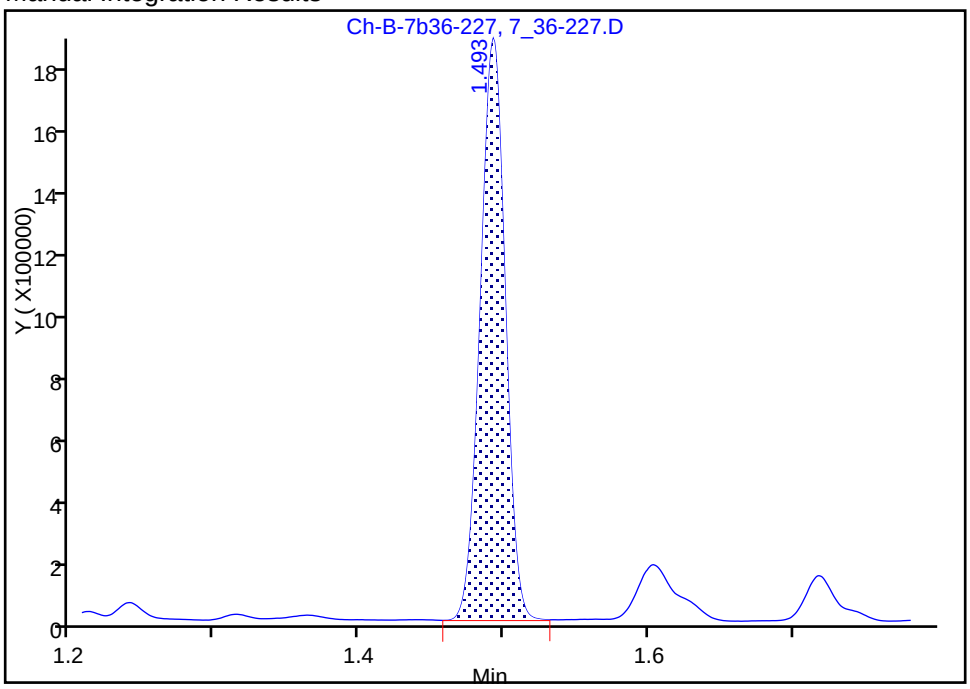
Processing Integration Results

RT: 1.49
Area: 2164428
Amount: 0.027825
Amount Units: ng/uL



Manual Integration Results

RT: 1.49
Area: 2115918
Amount: 0.027197
Amount Units: ng/uL



Reviewer: owenj, 26-Jul-2017 14:20:05
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS | Lab Sample ID: 480-121501-3 MS

Matrix: Solid | Lab File ID: 7_36-228.D

Analysis Method: 8082A | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.67(g) | Date Analyzed: 07/26/2017 14:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	156	*X*	60-154
2051-24-3	DCB Decachlorobiphenyl	159		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-228.D
Lims ID: 480-121501-A-3-G MS
Client ID: TP-11
Sample Type: MS
Inject. Date: 26-Jul-2017 14:07:30 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:19:17 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:19:17

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.002	13862817	0.5000	0.5000	
2	0.943	0.941	0.001	38424305	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.965	1.966	-0.001	1049669	0.0200	0.0312	M
2	1.493	1.491	0.001	2125501	0.0200	0.0248	
						RPD = 22.78	
9 PCB-1016							M
1	2.543	2.544	-0.001	769711	0.5000	0.7396	M
1	2.694	2.691	0.003	484278	0.5000	0.7570	M
1	2.897	2.893	0.004	1773585	0.5000	0.7970	M
1	2.982	2.980	0.002	663648	0.5000	0.7992	M
1	3.043	3.041	0.002	461327	0.5000	0.8021	M
		Average of Peak Amounts =				0.7790	
2	2.163	2.163	0.001	1746045	0.5000	0.6736	
2	2.466	2.466	0.000	3682432	0.5000	0.6764	
2	2.574	2.573	0.001	1422574	0.5000	0.6905	
2	2.664	2.663	0.001	941562	0.5000	0.6794	
2	2.937	2.936	0.001	1689270	0.5000	0.7113	
		Average of Peak Amounts =				0.6863	
						RPD = 12.66	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1248							M
1	3.339	3.338	0.001	517188		0.4248	M
1	3.439	3.438	0.001	603322		0.6139	M
1	3.639	3.643	-0.003	292206		0.1784	M
1	3.684	3.678	0.006	542905		0.5166	M
1	3.814	3.821	-0.007	82690		0.0790	M
		Average of Peak Amounts =				0.3625	
2	2.937	2.936	0.001	1689270		0.7779	
2	3.037	3.036	0.001	1263249		0.6301	
2	3.178	3.181	-0.003	409957		0.1874	
2	3.225	3.224	0.001	235087		0.1143	
2	3.411	3.417	-0.006	177644		0.0730	
		Average of Peak Amounts =				0.3565	
						RPD = 1.67	
11 PCB-1254							M
1	3.858	3.859	-0.001	507892		0.3499	M
1	4.081	4.081	0.000	139468		0.1418	M
1	4.159	4.162	-0.003	538596		0.3129	M
1	4.353	4.360	-0.008	1138758		0.6606	M
1	4.764	4.765	-0.001	1588090		1.10	M
		Average of Peak Amounts =				0.5125	
2	3.353	3.352	0.000	914194		0.3173	
2	3.644	3.644	0.000	255404		0.1173	
2	3.752	3.730	0.022	2026307		0.4456	
2	3.876	3.867	0.009	2280262		0.4944	
2	4.296	4.297	-0.001	2160669		0.5575	
		Average of Peak Amounts =				0.3864	
						RPD = 28.05	
12 PCB-1260							M
1	4.764	4.764	0.000	1588090	0.5000	0.9150	M
1	4.893	4.893	0.000	795222	0.5000	0.8148	M
1	5.085	5.083	0.003	748437	0.5000	0.8120	M
1	5.289	5.288	0.001	1874593	0.5000	0.8086	M
1	5.533	5.532	0.000	863823	0.5000	0.7873	M
		Average of Peak Amounts =				0.8275	
2	4.296	4.295	0.001	2160669	0.5000	0.7866	
2	4.349	4.349	0.000	1595547	0.5000	0.6344	
2	4.672	4.672	0.000	1612531	0.5000	0.8227	
2	4.748	4.748	0.000	4005209	0.5000	0.6345	
2	5.075	5.074	0.001	2488880	0.5000	0.6518	
		Average of Peak Amounts =				0.7060	
						RPD = 15.85	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 1260 Res 1							M
1	5.533	5.532	0.001	863823		NC	M
2	4.603	4.603	0.000	1779162		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.886	6.907	-0.021	614233	0.0200	0.0318	
2	6.055	6.056	-0.001	1370652	0.0200	0.0247	
						RPD = 25.07	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

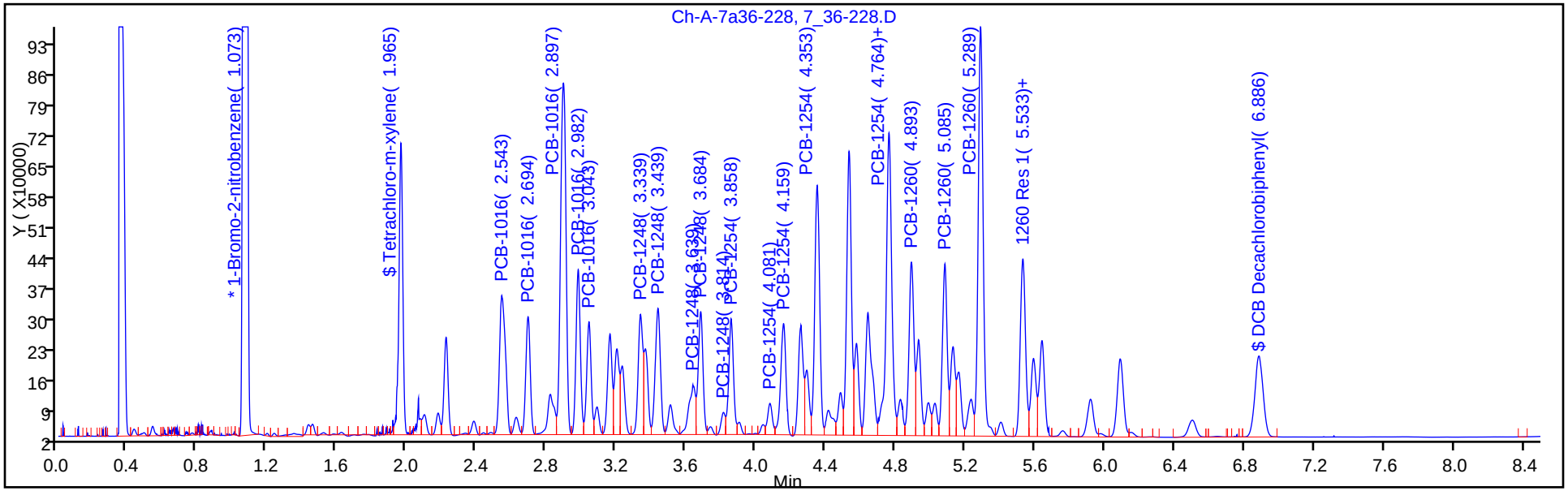
Report Date: 26-Jul-2017 15:19:18 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

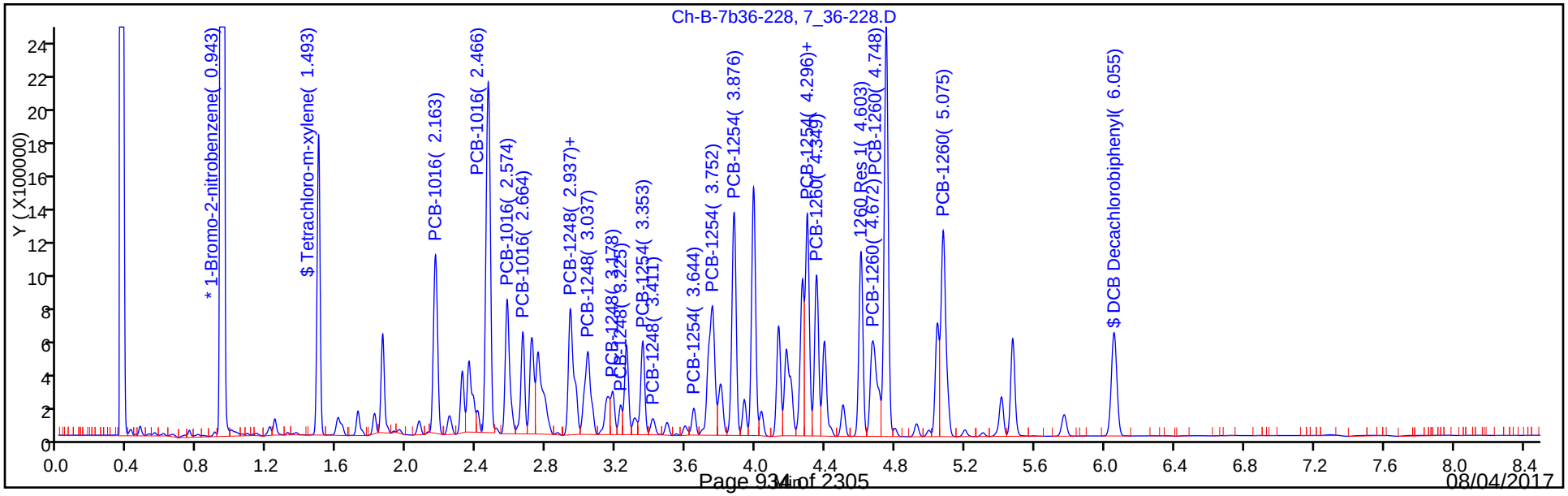
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-228.D

Injection Date:	26-Jul-2017 14:07:30	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-G MS			Worklist Smp#:	14
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



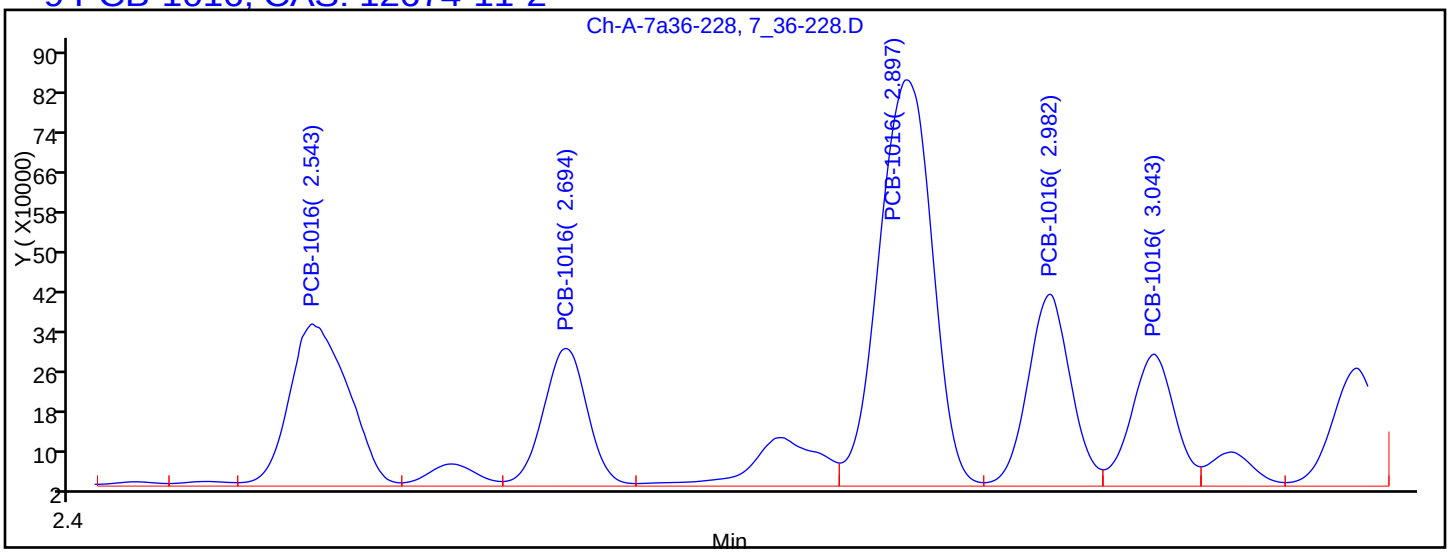
Report Date: 26-Jul-2017 15:19:18 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-228.D

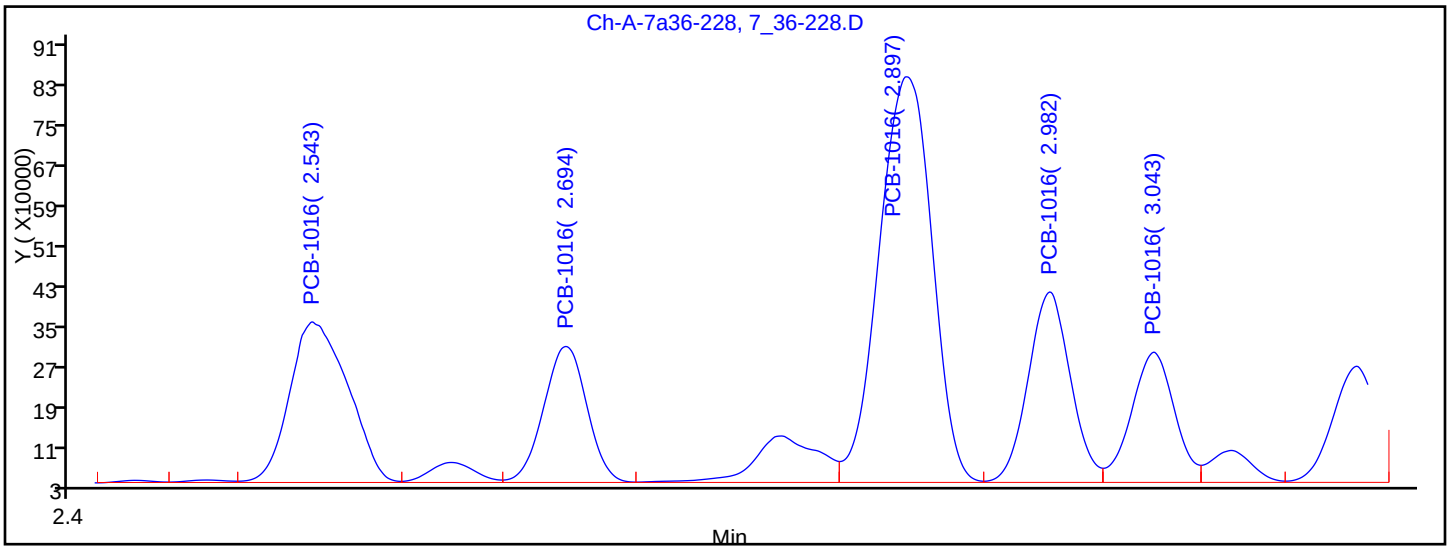
Injection Date:	26-Jul-2017 14:07:30	Instrument ID:	HP6890-7		
Lims ID:	480-121501-A-3-G MS				
Client ID:	TP-11				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.543	Response = 795226
2.694	Response = 505344
2.897	Response = 1796948
2.982	Response = 683092
3.043	Response = 477449



Manual Integration Results

2.543	Response = 769711	M
2.694	Response = 484278	M
2.897	Response = 1773585	M
2.982	Response = 663648	M
3.043	Response = 461327	M

Reviewer: owenj, 26-Jul-2017 14:26:07

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

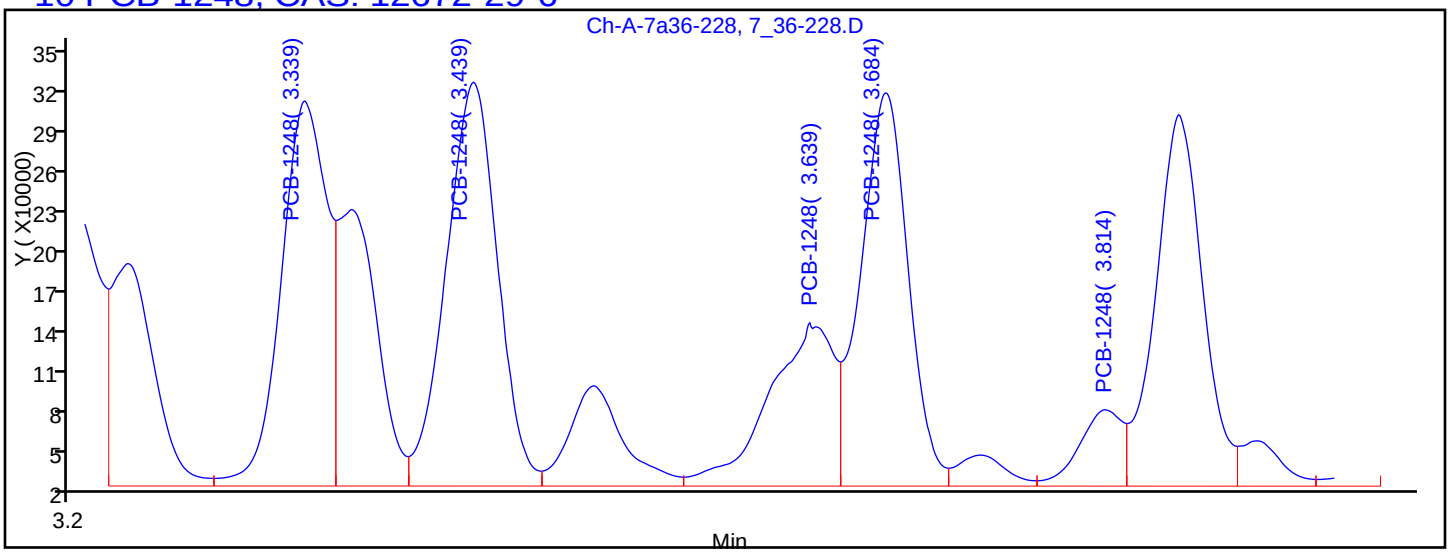
Report Date: 26-Jul-2017 15:19:18 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-228.D

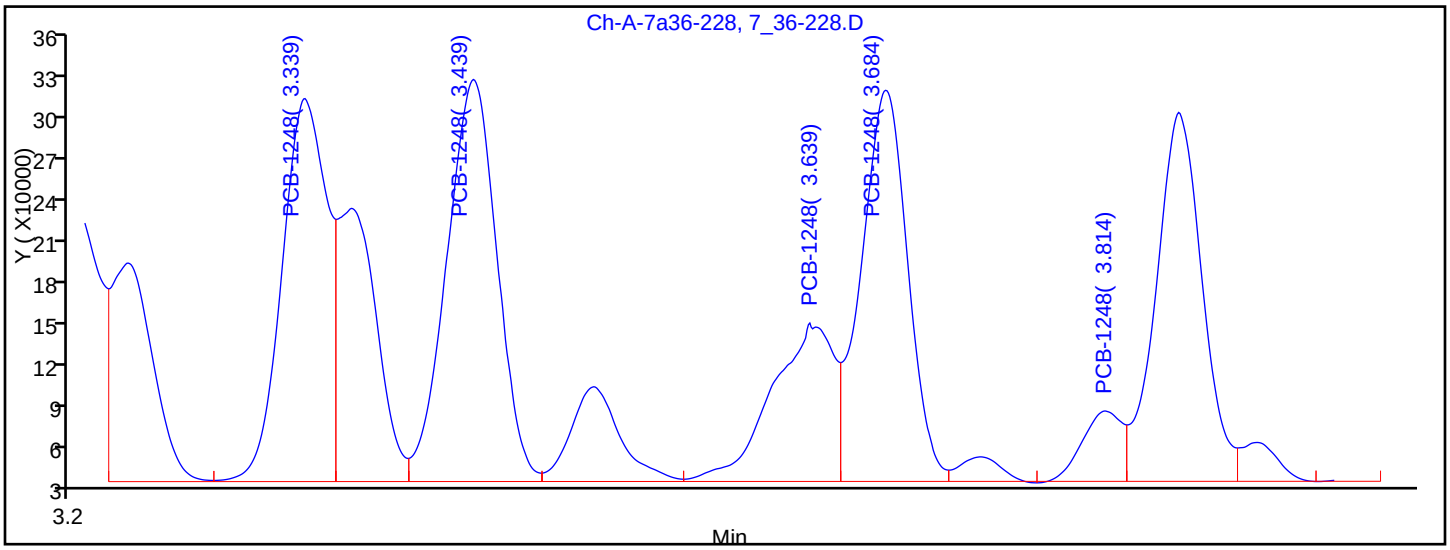
Injection Date:	26-Jul-2017 14:07:30	Instrument ID:	HP6890-7		
Lims ID:	480-121501-A-3-G MS				
Client ID:	TP-11				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.339	Response = 537829
3.439	Response = 626141
3.639	Response = 319582
3.684	Response = 561874
3.814	Response = 98634



Manual Integration Results

3.339	Response = 517188	M
3.439	Response = 603322	M
3.639	Response = 292206	M
3.684	Response = 542905	M
3.814	Response = 82690	M

Reviewer: owenj, 26-Jul-2017 14:26:07

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

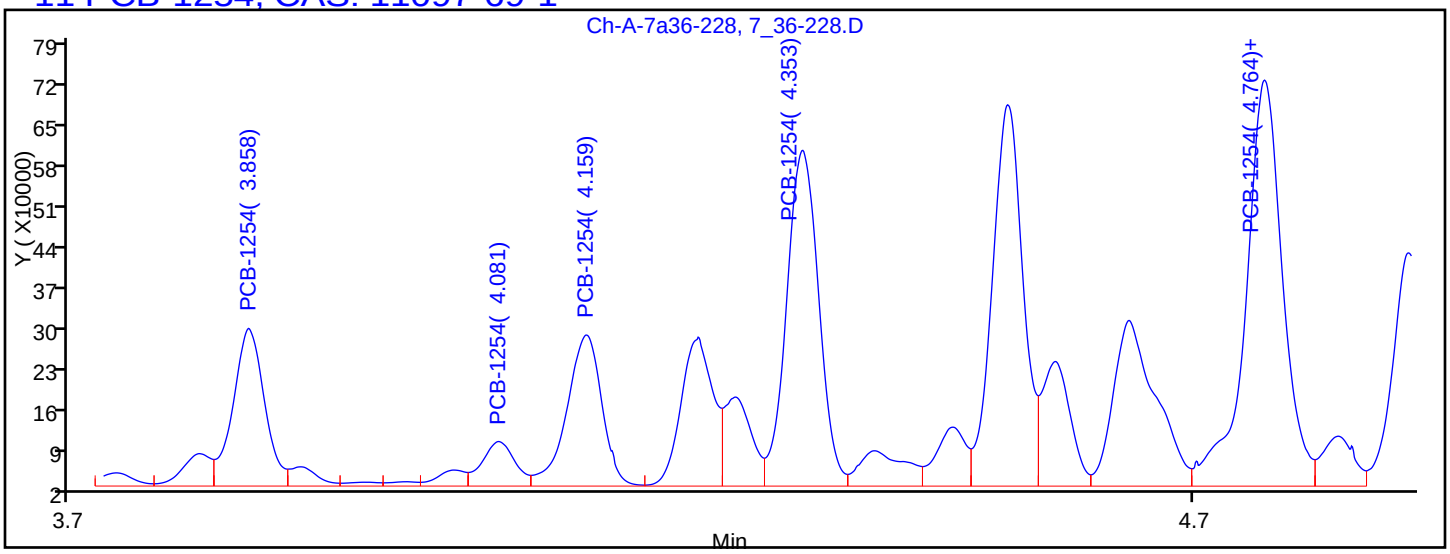
Report Date: 26-Jul-2017 15:19:19 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-228.D

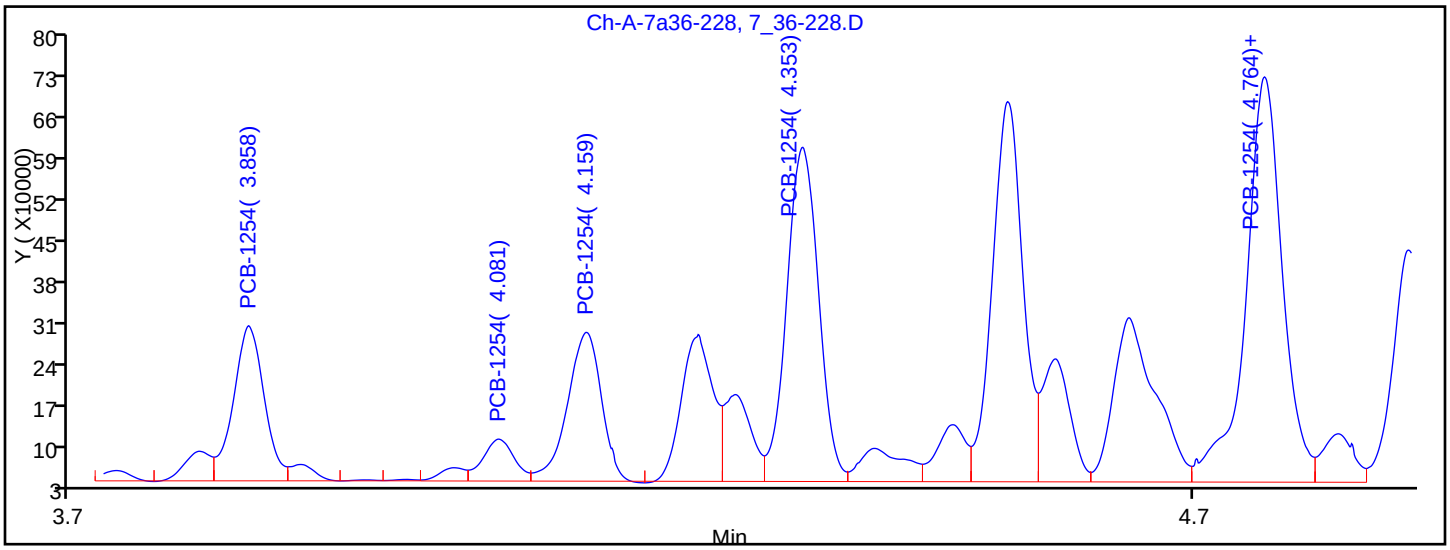
Injection Date:	26-Jul-2017 14:07:30	Instrument ID:	HP6890-7		
Lims ID:	480-121501-A-3-G MS				
Client ID:	TP-11				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

3.858	Response = 527689
4.081	Response = 155143
4.159	Response = 565881
4.353	Response = 1156397
4.764	Response = 1607372



Manual Integration Results

3.858	Response = 507892	M
4.081	Response = 139468	M
4.159	Response = 538596	M
4.353	Response = 1138758	M
4.764	Response = 1588090	M

Reviewer: owenj, 26-Jul-2017 14:26:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

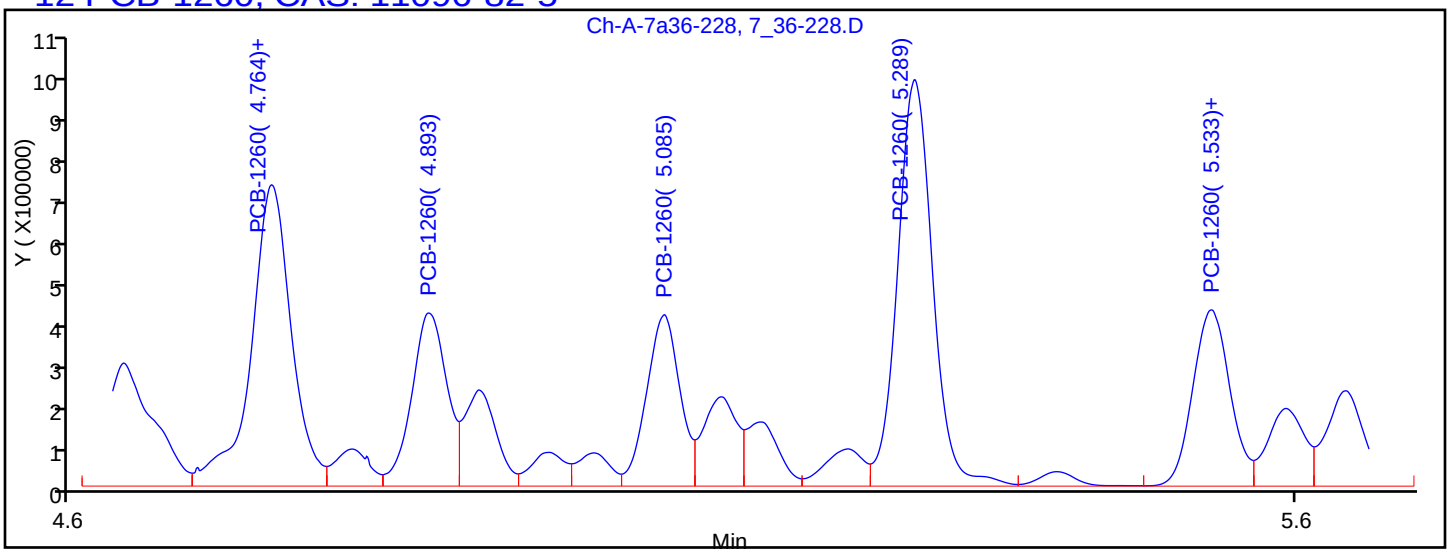
Report Date: 26-Jul-2017 15:19:19 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-228.D

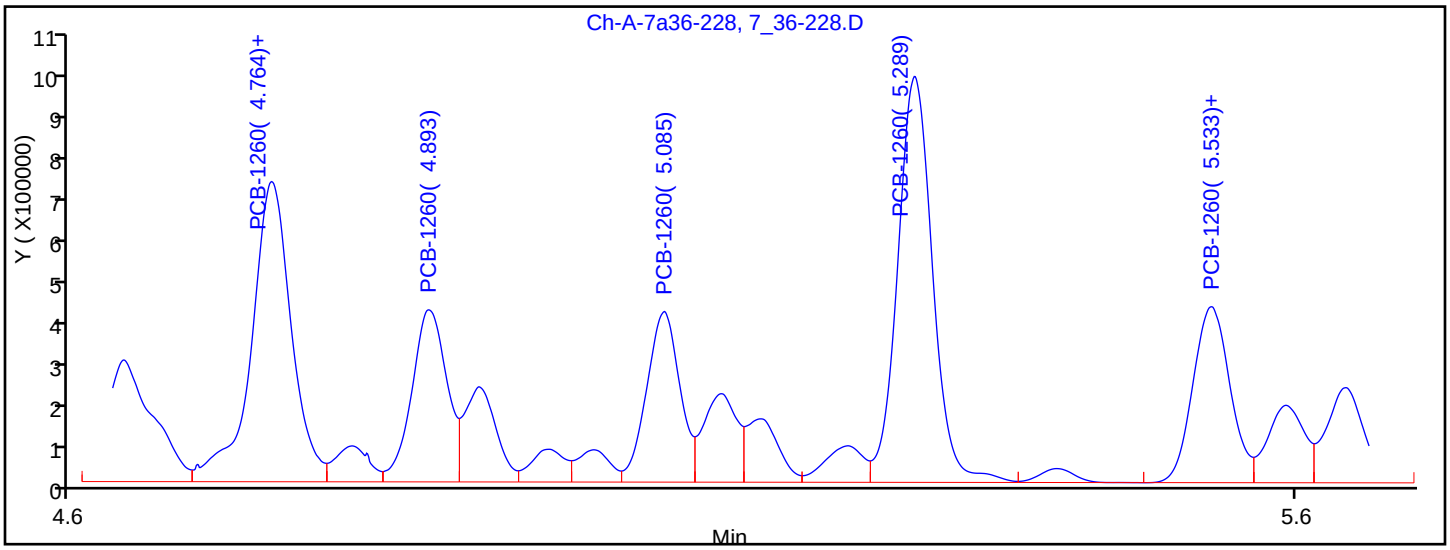
Injection Date:	26-Jul-2017 14:07:30	Instrument ID:	HP6890-7		
Lims ID:	480-121501-A-3-G MS				
Client ID:	TP-11				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.764	Response = 1607372
4.893	Response = 804881
5.085	Response = 755883
5.289	Response = 1885156
5.533	Response = 868756



Manual Integration Results

4.764	Response = 1588090	M
4.893	Response = 795222	M
5.085	Response = 748437	M
5.289	Response = 1874593	M
5.533	Response = 863823	M

Reviewer: owenj, 26-Jul-2017 14:26:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

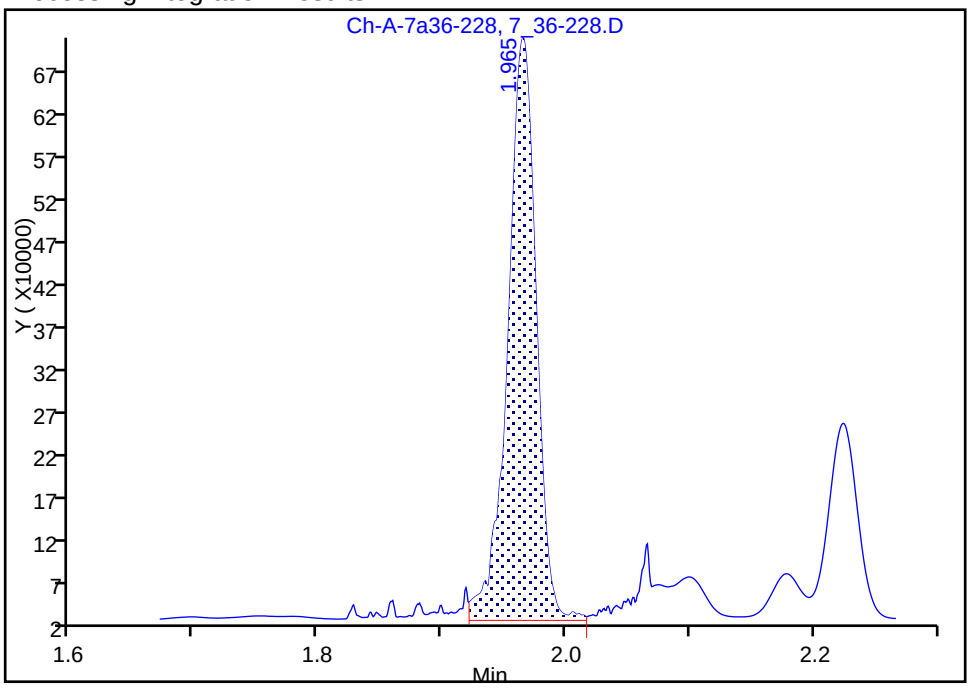
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-228.D				
Injection Date:	26-Jul-2017 14:07:30	Instrument ID:	HP6890-7		
Lims ID:	480-121501-A-3-G MS				
Client ID:	TP-11				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		
Column:		Detector	Ch-A-7A136		

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

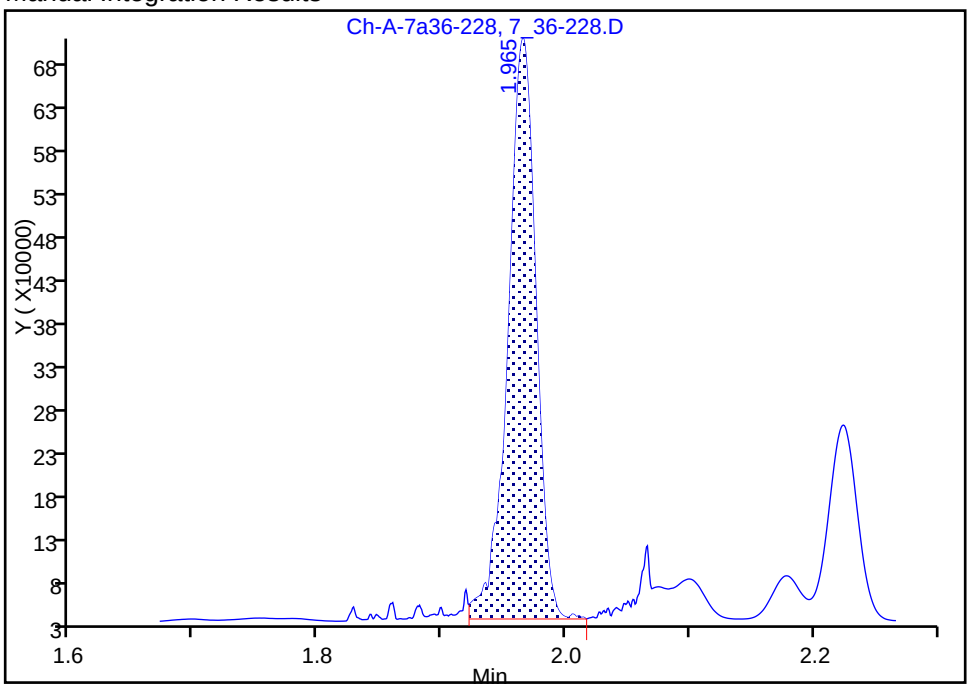
Processing Integration Results

RT: 1.97
Area: 1072899
Amount: 0.031882
Amount Units: ng/uL



Manual Integration Results

RT: 1.97
Area: 1049669
Amount: 0.031181
Amount Units: ng/uL



Reviewer: owenj, 26-Jul-2017 14:26:07

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MS | Lab Sample ID: 480-121501-3 MS

Matrix: Solid | Lab File ID: 7_36-228.D

Analysis Method: 8082A | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.67(g) | Date Analyzed: 07/26/2017 14:07

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.17		0.23	0.045
11104-28-2	PCB-1221	ND		0.23	0.045
11141-16-5	PCB-1232	ND		0.23	0.045
53469-21-9	PCB-1242	ND		0.23	0.045
12672-29-6	PCB-1248	1.65		0.23	0.045
11097-69-1	PCB-1254	1.78		0.23	0.11
11096-82-5	PCB-1260	3.26		0.23	0.11
37324-23-5	PCB-1262	ND		0.23	0.11
11100-14-4	PCB-1268	ND		0.23	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	124		60-154
2051-24-3	DCB Decachlorobiphenyl	124		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-228.D
Lims ID: 480-121501-A-3-G MS
Client ID: TP-11
Sample Type: MS
Inject. Date: 26-Jul-2017 14:07:30 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:19:17 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:19:17

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.002	13862817	0.5000	0.5000	
2	0.943	0.941	0.001	38424305	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	1.965	1.966	-0.001	1049669	0.0200	0.0312	M
2	1.493	1.491	0.001	2125501	0.0200	0.0248	
						RPD = 22.78	
9 PCB-1016							M
1	2.543	2.544	-0.001	769711	0.5000	0.7396	M
1	2.694	2.691	0.003	484278	0.5000	0.7570	M
1	2.897	2.893	0.004	1773585	0.5000	0.7970	M
1	2.982	2.980	0.002	663648	0.5000	0.7992	M
1	3.043	3.041	0.002	461327	0.5000	0.8021	M
		Average of Peak Amounts =				0.7790	
2	2.163	2.163	0.001	1746045	0.5000	0.6736	
2	2.466	2.466	0.000	3682432	0.5000	0.6764	
2	2.574	2.573	0.001	1422574	0.5000	0.6905	
2	2.664	2.663	0.001	941562	0.5000	0.6794	
2	2.937	2.936	0.001	1689270	0.5000	0.7113	
		Average of Peak Amounts =				0.6863	
						RPD = 12.66	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1248							M
1	3.339	3.338	0.001	517188		0.4248	M
1	3.439	3.438	0.001	603322		0.6139	M
1	3.639	3.643	-0.003	292206		0.1784	M
1	3.684	3.678	0.006	542905		0.5166	M
1	3.814	3.821	-0.007	82690		0.0790	M
		Average of Peak Amounts =				0.3625	
2	2.937	2.936	0.001	1689270		0.7779	
2	3.037	3.036	0.001	1263249		0.6301	
2	3.178	3.181	-0.003	409957		0.1874	
2	3.225	3.224	0.001	235087		0.1143	
2	3.411	3.417	-0.006	177644		0.0730	
		Average of Peak Amounts =				0.3565	
						RPD = 1.67	
11 PCB-1254							M
1	3.858	3.859	-0.001	507892		0.3499	M
1	4.081	4.081	0.000	139468		0.1418	M
1	4.159	4.162	-0.003	538596		0.3129	M
1	4.353	4.360	-0.008	1138758		0.6606	M
1	4.764	4.765	-0.001	1588090		1.10	M
		Average of Peak Amounts =				0.5125	
2	3.353	3.352	0.000	914194		0.3173	
2	3.644	3.644	0.000	255404		0.1173	
2	3.752	3.730	0.022	2026307		0.4456	
2	3.876	3.867	0.009	2280262		0.4944	
2	4.296	4.297	-0.001	2160669		0.5575	
		Average of Peak Amounts =				0.3864	
						RPD = 28.05	
12 PCB-1260							M
1	4.764	4.764	0.000	1588090	0.5000	0.9150	M
1	4.893	4.893	0.000	795222	0.5000	0.8148	M
1	5.085	5.083	0.003	748437	0.5000	0.8120	M
1	5.289	5.288	0.001	1874593	0.5000	0.8086	M
1	5.533	5.532	0.000	863823	0.5000	0.7873	M
		Average of Peak Amounts =				0.8275	
2	4.296	4.295	0.001	2160669	0.5000	0.7866	
2	4.349	4.349	0.000	1595547	0.5000	0.6344	
2	4.672	4.672	0.000	1612531	0.5000	0.8227	
2	4.748	4.748	0.000	4005209	0.5000	0.6345	
2	5.075	5.074	0.001	2488880	0.5000	0.6518	
		Average of Peak Amounts =				0.7060	
						RPD = 15.85	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 1260 Res 1							M
1	5.533	5.532	0.001	863823		NC	M
2	4.603	4.603	0.000	1779162		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.886	6.907	-0.021	614233	0.0200	0.0318	
2	6.055	6.056	-0.001	1370652	0.0200	0.0247	
						RPD = 25.07	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

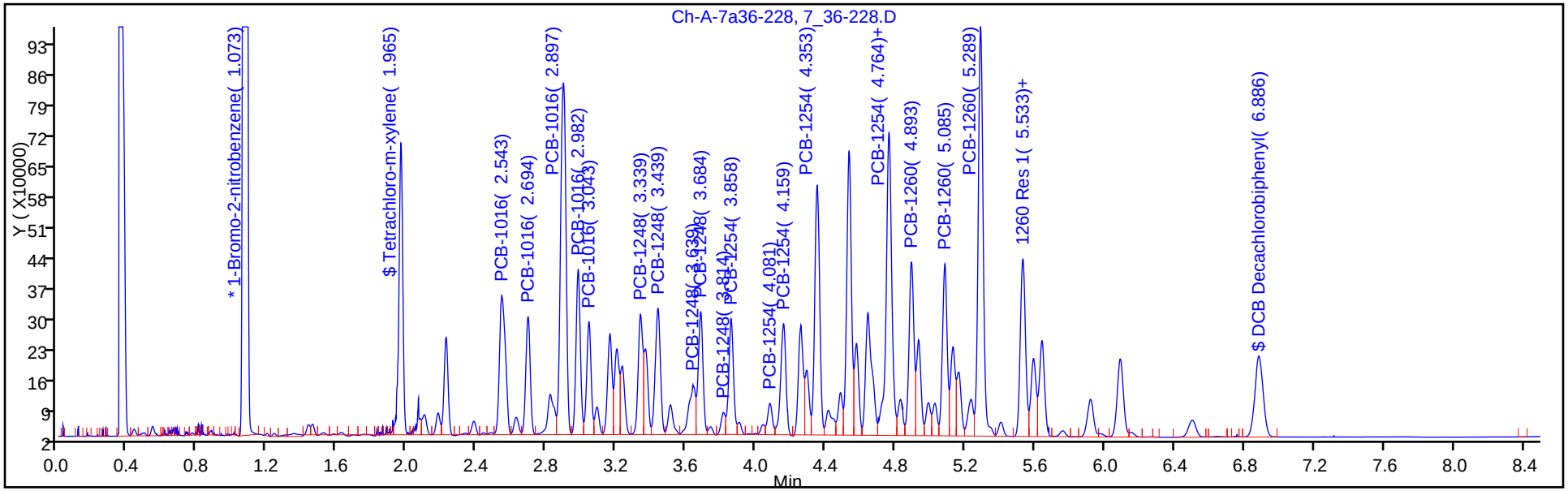
Report Date: 26-Jul-2017 15:19:19 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

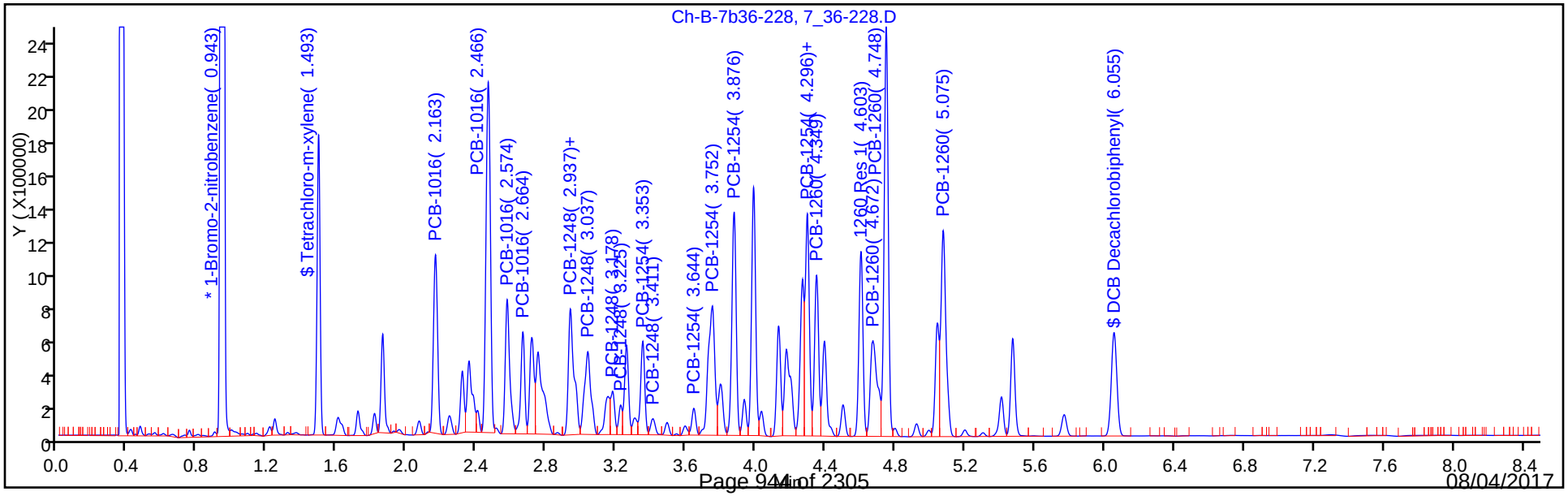
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-228.D

Injection Date:	26-Jul-2017 14:07:30	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-G MS			Worklist Smp#:	14
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD | Lab Sample ID: 480-121501-3 MSD

Matrix: Solid | Lab File ID: 7_36-229.D

Analysis Method: 8082A | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.87(g) | Date Analyzed: 07/26/2017 14:23

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	161	X	60-154
2051-24-3	DCB Decachlorobiphenyl	162		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-229.D
Lims ID: 480-121501-A-3-H MSD
Client ID: TP-11
Sample Type: MSD
Inject. Date: 26-Jul-2017 14:23:32 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:19:51 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:19:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.001	13424155	0.5000	0.5000	
2	0.942	0.941	0.001	36708186	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.964	1.966	-0.002	1049957	0.0200	0.0322	
2	1.493	1.491	0.001	2240839	0.0200	0.0274	
						RPD = 16.22	
9 PCB-1016							
1	2.537	2.544	-0.007	289547	0.5000	0.2743	
1	2.693	2.691	0.002	521808	0.5000	0.8456	
1	2.896	2.893	0.003	1865167	0.5000	0.8662	
1	2.981	2.980	0.001	691832	0.5000	0.8617	
1	3.043	3.041	0.002	477872	0.5000	0.8588	
		Average of Peak Amounts =				0.7413	
2	2.163	2.163	0.000	1894515	0.5000	0.7688	
2	2.466	2.466	0.000	3947275	0.5000	0.7604	
2	2.574	2.573	0.001	1516467	0.5000	0.7724	
2	2.664	2.663	0.001	1018750	0.5000	0.7711	
2	2.938	2.936	0.002	1890458	0.5000	0.8352	
		Average of Peak Amounts =				0.7816	
						RPD = 5.29	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1248							
1	3.339	3.338	0.001	597122		0.5081	
1	3.439	3.438	0.001	645433		0.6788	
1	3.643	3.643	0.000	341231		0.2158	
1	3.684	3.678	0.006	680929		0.6720	
1	3.816	3.821	-0.005	128562		0.1290	
		Average of Peak Amounts =				0.4408	
2	2.938	2.936	0.002	1890458		0.9121	
2	3.037	3.036	0.001	1399374		0.7321	
2	3.181	3.181	0.000	560314		0.2734	
2	3.225	3.224	0.001	324097		0.1669	
2	3.408	3.417	-0.009	358291		0.1593	
		Average of Peak Amounts =				0.4488	
						RPD = 1.80	
11 PCB-1254							
1	3.859	3.859	0.000	666070		0.4770	
1	4.081	4.081	0.000	240421		0.2591	
1	4.159	4.162	-0.003	786842		0.4758	
1	4.353	4.360	-0.007	1375916		0.8260	
1	4.764	4.765	-0.001	1902595		1.36	
		Average of Peak Amounts =				0.6795	
2	3.352	3.352	0.000	1172822		0.4287	
2	3.646	3.644	0.002	445313		0.2190	
2	3.750	3.730	0.020	2520358		0.5816	
2	3.875	3.867	0.008	2808136		0.6386	
2	4.296	4.297	-0.001	2762497		0.7479	
		Average of Peak Amounts =				0.5232	
						RPD = 25.99	
12 PCB-1260							
1	4.764	4.764	0.000	1902595	0.5000	1.13	
1	4.893	4.893	0.001	822115	0.5000	0.8705	
1	5.084	5.083	0.002	807519	0.5000	0.9060	
1	5.290	5.288	0.002	2030371	0.5000	0.9053	
1	5.532	5.532	0.000	955315	0.5000	0.9008	
		Average of Peak Amounts =				0.9434	
2	4.296	4.295	0.001	2762497	0.5000	1.06	
2	4.348	4.349	-0.001	1721673	0.5000	0.7176	
2	4.670	4.672	-0.002	1821698	0.5000	0.9738	
2	4.748	4.748	0.000	4321225	0.5000	0.7166	
2	5.074	5.074	0.000	2696187	0.5000	0.7393	
		Average of Peak Amounts =				0.8407	
						RPD = 11.51	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 1260 Res 1							
1	5.532	5.532	0.000	955315		NC	
2	4.604	4.603	0.001	2051917		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.886	6.907	-0.021	604935	0.0200	0.0324	
2	6.056	6.056	0.000	1346921	0.0200	0.0254	
						RPD = 23.95	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

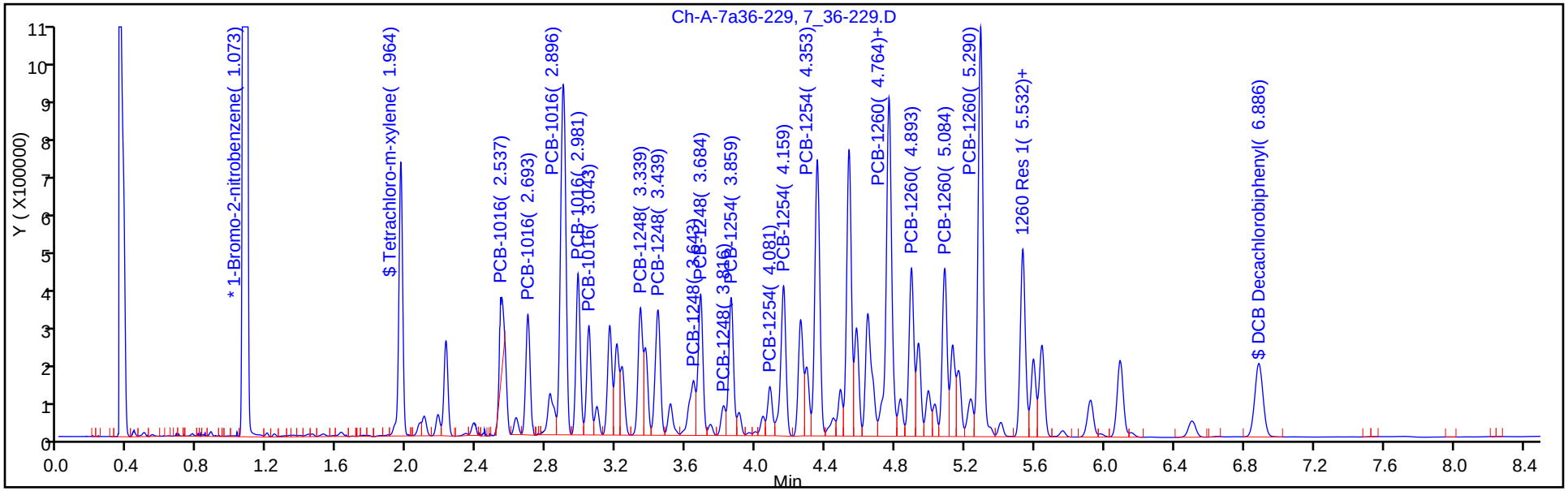
Report Date: 26-Jul-2017 15:19:51 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

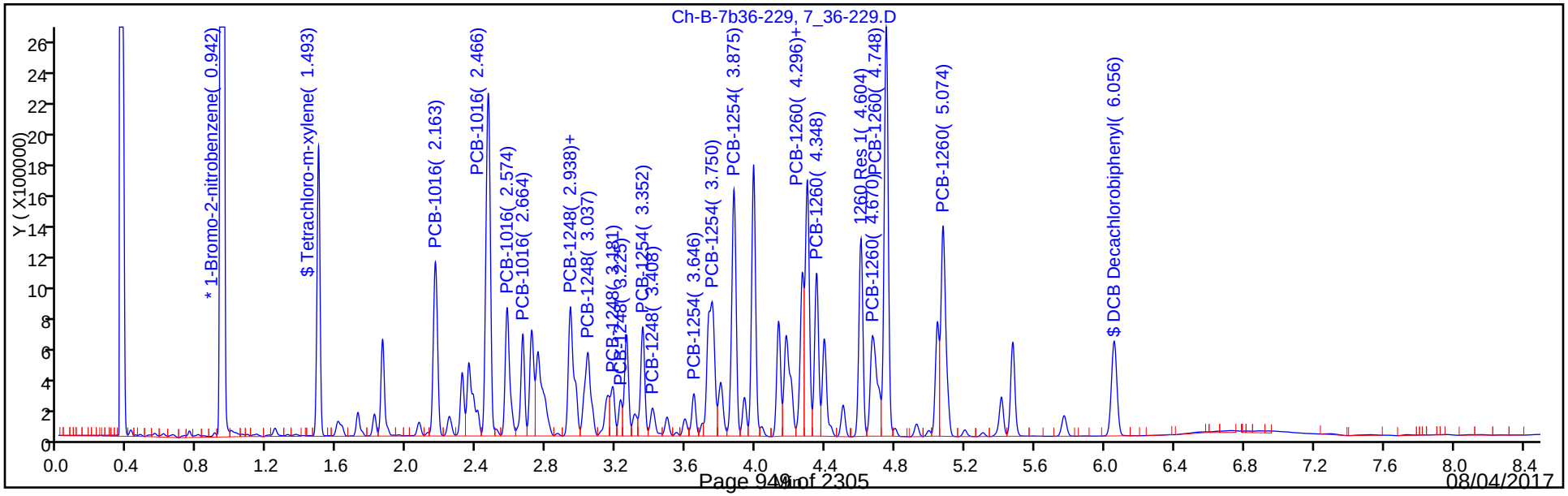
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-229.D

Injection Date:	26-Jul-2017 14:23:32	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-H MSD			Worklist Smp#:	15
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Client Sample ID: TP-11 MSD | Lab Sample ID: 480-121501-3 MSD

Matrix: Solid | Lab File ID: 7_36-229.D

Analysis Method: 8082A | Date Collected: 07/21/2017 11:00

Extraction Method: 3550C | Date Extracted: 07/25/2017 14:16

Sample wt/vol: 2.87(g) | Date Analyzed: 07/26/2017 14:23

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: 18.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 368775 | Units: mg/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.36		0.21	0.042
11104-28-2	PCB-1221	ND		0.21	0.042
11141-16-5	PCB-1232	ND		0.21	0.042
53469-21-9	PCB-1242	ND		0.21	0.042
12672-29-6	PCB-1248	1.93		0.21	0.042
11097-69-1	PCB-1254	2.25		0.21	0.10
11096-82-5	PCB-1260	3.61		0.21	0.10
37324-23-5	PCB-1262	ND		0.21	0.10
11100-14-4	PCB-1268	ND		0.21	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	137		60-154
2051-24-3	DCB Decachlorobiphenyl	127		65-174

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-229.D
Lims ID: 480-121501-A-3-H MSD
Client ID: TP-11
Sample Type: MSD
Inject. Date: 26-Jul-2017 14:23:32 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 26-Jul-2017 15:19:51 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK024

First Level Reviewer: owenj Date: 26-Jul-2017 15:19:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.073	1.071	0.001	13424155	0.5000	0.5000	
2	0.942	0.941	0.001	36708186	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	1.964	1.966	-0.002	1049957	0.0200	0.0322	
2	1.493	1.491	0.001	2240839	0.0200	0.0274	
						RPD = 16.22	
9 PCB-1016							
1	2.537	2.544	-0.007	289547	0.5000	0.2743	
1	2.693	2.691	0.002	521808	0.5000	0.8456	
1	2.896	2.893	0.003	1865167	0.5000	0.8662	
1	2.981	2.980	0.001	691832	0.5000	0.8617	
1	3.043	3.041	0.002	477872	0.5000	0.8588	
		Average of Peak Amounts =				0.7413	
2	2.163	2.163	0.000	1894515	0.5000	0.7688	
2	2.466	2.466	0.000	3947275	0.5000	0.7604	
2	2.574	2.573	0.001	1516467	0.5000	0.7724	
2	2.664	2.663	0.001	1018750	0.5000	0.7711	
2	2.938	2.936	0.002	1890458	0.5000	0.8352	
		Average of Peak Amounts =				0.7816	
						RPD = 5.29	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
10 PCB-1248							
1	3.339	3.338	0.001	597122		0.5081	
1	3.439	3.438	0.001	645433		0.6788	
1	3.643	3.643	0.000	341231		0.2158	
1	3.684	3.678	0.006	680929		0.6720	
1	3.816	3.821	-0.005	128562		0.1290	
		Average of Peak Amounts =				0.4408	
2	2.938	2.936	0.002	1890458		0.9121	
2	3.037	3.036	0.001	1399374		0.7321	
2	3.181	3.181	0.000	560314		0.2734	
2	3.225	3.224	0.001	324097		0.1669	
2	3.408	3.417	-0.009	358291		0.1593	
		Average of Peak Amounts =				0.4488	
						RPD = 1.80	
11 PCB-1254							
1	3.859	3.859	0.000	666070		0.4770	
1	4.081	4.081	0.000	240421		0.2591	
1	4.159	4.162	-0.003	786842		0.4758	
1	4.353	4.360	-0.007	1375916		0.8260	
1	4.764	4.765	-0.001	1902595		1.36	
		Average of Peak Amounts =				0.6795	
2	3.352	3.352	0.000	1172822		0.4287	
2	3.646	3.644	0.002	445313		0.2190	
2	3.750	3.730	0.020	2520358		0.5816	
2	3.875	3.867	0.008	2808136		0.6386	
2	4.296	4.297	-0.001	2762497		0.7479	
		Average of Peak Amounts =				0.5232	
						RPD = 25.99	
12 PCB-1260							
1	4.764	4.764	0.000	1902595	0.5000	1.13	
1	4.893	4.893	0.001	822115	0.5000	0.8705	
1	5.084	5.083	0.002	807519	0.5000	0.9060	
1	5.290	5.288	0.002	2030371	0.5000	0.9053	
1	5.532	5.532	0.000	955315	0.5000	0.9008	
		Average of Peak Amounts =				0.9434	
2	4.296	4.295	0.001	2762497	0.5000	1.06	
2	4.348	4.349	-0.001	1721673	0.5000	0.7176	
2	4.670	4.672	-0.002	1821698	0.5000	0.9738	
2	4.748	4.748	0.000	4321225	0.5000	0.7166	
2	5.074	5.074	0.000	2696187	0.5000	0.7393	
		Average of Peak Amounts =				0.8407	
						RPD = 11.51	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
2 1260 Res 1							
1	5.532	5.532	0.000	955315		NC	
2	4.604	4.603	0.001	2051917		NC	
$ 15 DCB Decachlorobiphenyl							
1	6.886	6.907	-0.021	604935	0.0200	0.0324	
2	6.056	6.056	0.000	1346921	0.0200	0.0254	
						RPD = 23.95	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

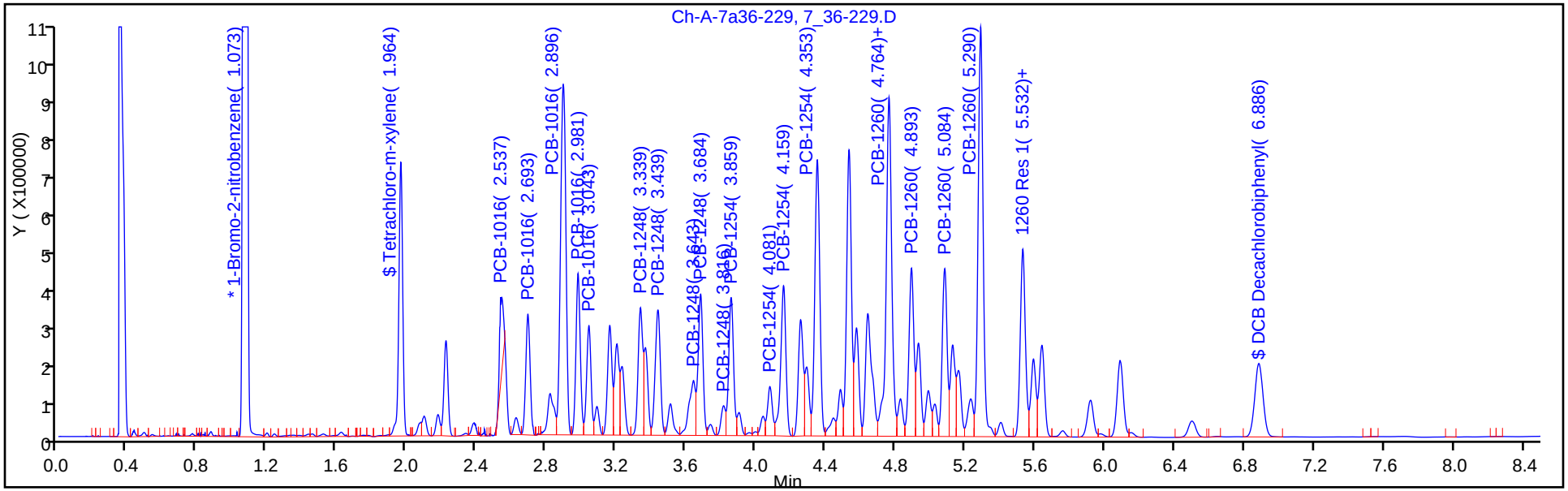
Report Date: 26-Jul-2017 15:19:52 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

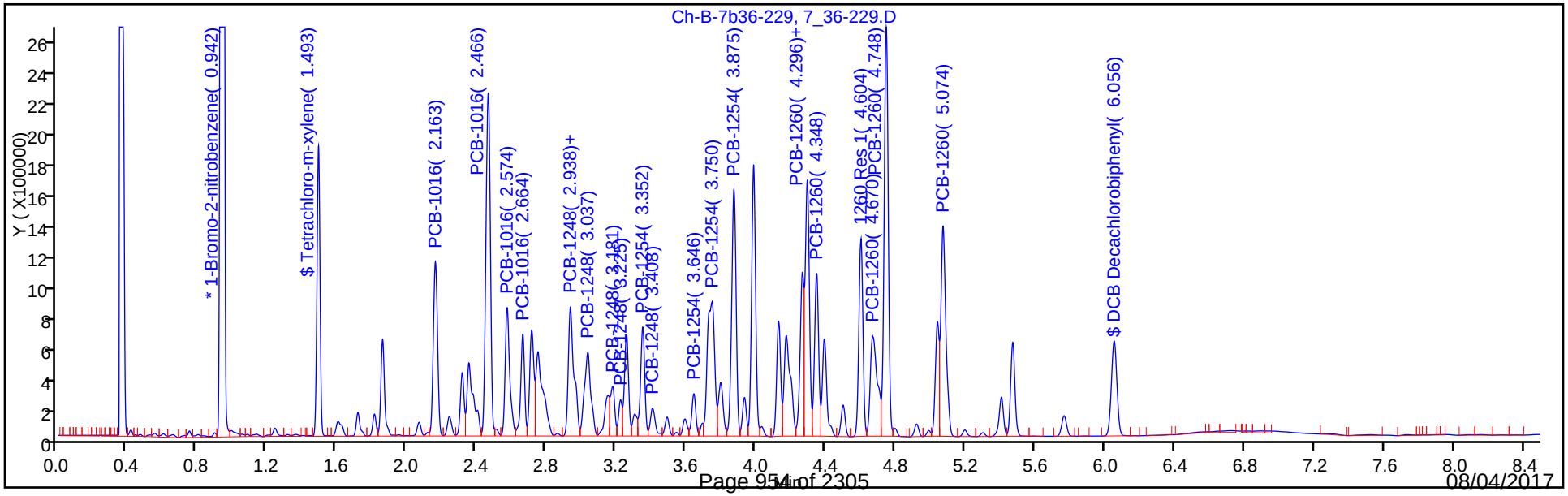
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170726-64339.b\7_36-229.D

Injection Date:	26-Jul-2017 14:23:32	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-121501-A-3-H MSD			Worklist Smp#:	15
Client ID:	TP-11				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 03/28/2017 12:44

Analysis Batch Number: 349118 End Date: 03/28/2017 19:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-349118/7		03/28/2017 12:44	1	7_28-020.D	ZB-5 0.53(mm)
IC 480-349118/7		03/28/2017 12:44	1	7_28-020.D	ZB-35 0.53(mm)
IC 480-349118/8		03/28/2017 13:00	1	7_28-021.D	ZB-5 0.53(mm)
IC 480-349118/8		03/28/2017 13:00	1	7_28-021.D	ZB-35 0.53(mm)
ICIS 480-349118/9		03/28/2017 13:16	1	7_28-022.D	ZB-5 0.53(mm)
ICIS 480-349118/9		03/28/2017 13:16	1	7_28-022.D	ZB-35 0.53(mm)
IC 480-349118/10		03/28/2017 13:32	1	7_28-023.D	ZB-5 0.53(mm)
IC 480-349118/10		03/28/2017 13:32	1	7_28-023.D	ZB-35 0.53(mm)
IC 480-349118/11		03/28/2017 13:48	1	7_28-024.D	ZB-5 0.53(mm)
IC 480-349118/11		03/28/2017 13:48	1	7_28-024.D	ZB-35 0.53(mm)
IC 480-349118/12		03/28/2017 14:04	1	7_28-025.D	ZB-5 0.53(mm)
IC 480-349118/12		03/28/2017 14:04	1	7_28-025.D	ZB-35 0.53(mm)
IC 480-349118/13		03/28/2017 14:20	1	7_28-026.D	ZB-5 0.53(mm)
IC 480-349118/13		03/28/2017 14:20	1	7_28-026.D	ZB-35 0.53(mm)
ICV 480-349118/14		03/28/2017 14:36	1		ZB-5 0.53(mm)
ICV 480-349118/14		03/28/2017 14:36	1		ZB-35 0.53(mm)
CCV 480-349118/15		03/28/2017 14:52	1		ZB-5 0.53(mm)
CCV 480-349118/15		03/28/2017 14:52	1		ZB-35 0.53(mm)
ZZZZZ		03/28/2017 15:08	1		ZB-5 0.53(mm)
ZZZZZ		03/28/2017 15:08	1		ZB-35 0.53(mm)
1016 pattern CCV		03/28/2017 15:24	1		ZB-5 0.53(mm)
1016 pattern CCV		03/28/2017 15:24	1		ZB-35 0.53(mm)
CCVL 480-349118/18		03/28/2017 15:40	0.02		ZB-5 0.53(mm)
CCVL 480-349118/18		03/28/2017 15:40	0.02		ZB-35 0.53(mm)
IC 480-349118/19		03/28/2017 15:56	1	7_28-032.D	ZB-5 0.53(mm)
IC 480-349118/19		03/28/2017 15:56	1	7_28-032.D	ZB-35 0.53(mm)
IC 480-349118/20		03/28/2017 16:12	1	7_28-033.D	ZB-5 0.53(mm)
IC 480-349118/20		03/28/2017 16:12	1	7_28-033.D	ZB-35 0.53(mm)
IC 480-349118/21		03/28/2017 16:28	1	7_28-034.D	ZB-5 0.53(mm)
IC 480-349118/21		03/28/2017 16:28	1	7_28-034.D	ZB-35 0.53(mm)
ICV 480-349118/22		03/28/2017 16:43	1		ZB-5 0.53(mm)
ICV 480-349118/22		03/28/2017 16:43	1		ZB-35 0.53(mm)
IC 480-349118/23		03/28/2017 16:59	1	7_28-036.D	ZB-5 0.53(mm)
IC 480-349118/23		03/28/2017 16:59	1	7_28-036.D	ZB-35 0.53(mm)
IC 480-349118/24		03/28/2017 17:15	1	7_28-037.D	ZB-5 0.53(mm)
IC 480-349118/24		03/28/2017 17:15	1	7_28-037.D	ZB-35 0.53(mm)
IC 480-349118/25		03/28/2017 17:31	1	7_28-038.D	ZB-5 0.53(mm)
IC 480-349118/25		03/28/2017 17:31	1	7_28-038.D	ZB-35 0.53(mm)
ICV 480-349118/26		03/28/2017 17:47	1		ZB-5 0.53(mm)
ICV 480-349118/26		03/28/2017 17:47	1		ZB-35 0.53(mm)
IC 480-349118/27		03/28/2017 18:03	1	7_28-040.D	ZB-5 0.53(mm)
IC 480-349118/27		03/28/2017 18:03	1	7_28-040.D	ZB-35 0.53(mm)
IC 480-349118/28		03/28/2017 18:19	1	7_28-041.D	ZB-5 0.53(mm)
IC 480-349118/28		03/28/2017 18:19	1	7_28-041.D	ZB-35 0.53(mm)
IC 480-349118/29		03/28/2017 18:35	1	7_28-042.D	ZB-5 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 03/28/2017 12:44

Analysis Batch Number: 349118 End Date: 03/28/2017 19:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-349118/29		03/28/2017 18:35	1	7_28-042.D	ZB-35 0.53(mm)
ICV 480-349118/30		03/28/2017 18:51	1		ZB-5 0.53(mm)
ICV 480-349118/30		03/28/2017 18:51	1		ZB-35 0.53(mm)
IC 480-349118/31		03/28/2017 19:07	1	7_28-044.D	ZB-5 0.53(mm)
IC 480-349118/31		03/28/2017 19:07	1	7_28-044.D	ZB-35 0.53(mm)
IC 480-349118/32		03/28/2017 19:23	1	7_28-045.D	ZB-5 0.53(mm)
IC 480-349118/32		03/28/2017 19:23	1	7_28-045.D	ZB-35 0.53(mm)
IC 480-349118/33		03/28/2017 19:39	1	7_28-046.D	ZB-5 0.53(mm)
IC 480-349118/33		03/28/2017 19:39	1	7_28-046.D	ZB-35 0.53(mm)
ICV 480-349118/34		03/28/2017 19:55	1		ZB-5 0.53(mm)
ICV 480-349118/34		03/28/2017 19:55	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 07/26/2017 11:58

Analysis Batch Number: 368775 End Date: 07/26/2017 18:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 480-368775/6		07/26/2017 11:58	1	7_36-220.D	ZB-5 0.53(mm)
CCVIS 480-368775/6		07/26/2017 11:58	1	7_36-220.D	ZB-35 0.53(mm)
CCV 480-368775/7		07/26/2017 12:14	1	7_36-221.D	ZB-5 0.53(mm)
CCV 480-368775/7		07/26/2017 12:14	1	7_36-221.D	ZB-35 0.53(mm)
CCV 480-368775/8		07/26/2017 12:30	1	7_36-222.D	ZB-5 0.53(mm)
CCV 480-368775/8		07/26/2017 12:30	1	7_36-222.D	ZB-35 0.53(mm)
CCV 480-368775/9		07/26/2017 12:47	1	7_36-223.D	ZB-5 0.53(mm)
CCV 480-368775/9		07/26/2017 12:47	1	7_36-223.D	ZB-35 0.53(mm)
CCV 480-368775/10		07/26/2017 13:03	1	7_36-224.D	ZB-5 0.53(mm)
CCV 480-368775/10		07/26/2017 13:03	1	7_36-224.D	ZB-35 0.53(mm)
MB 480-368612/1-A		07/26/2017 13:35	1	7_36-226.D	ZB-5 0.53(mm)
MB 480-368612/1-A		07/26/2017 13:35	1	7_36-226.D	ZB-35 0.53(mm)
LCS 480-368612/2-A		07/26/2017 13:51	1	7_36-227.D	ZB-5 0.53(mm)
LCS 480-368612/2-A		07/26/2017 13:51	1	7_36-227.D	ZB-35 0.53(mm)
480-121501-3 MS		07/26/2017 14:07	1	7_36-228.D	ZB-5 0.53(mm)
480-121501-3 MS		07/26/2017 14:07	1	7_36-228.D	ZB-35 0.53(mm)
480-121501-3 MSD		07/26/2017 14:23	1	7_36-229.D	ZB-5 0.53(mm)
480-121501-3 MSD		07/26/2017 14:23	1	7_36-229.D	ZB-35 0.53(mm)
480-121501-3		07/26/2017 14:39	1	7_36-230.D	ZB-5 0.53(mm)
480-121501-3		07/26/2017 14:39	1	7_36-230.D	ZB-35 0.53(mm)
ZZZZZ		07/26/2017 14:55	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 14:55	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 15:11	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 15:11	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 15:27	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 15:27	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 15:43	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 15:43	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 16:00	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 16:00	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 16:16	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 16:16	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 16:32	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 16:32	1		ZB-35 0.53(mm)
480-121501-1		07/26/2017 16:48	1	7_36-238.D	ZB-5 0.53(mm)
480-121501-1		07/26/2017 16:48	1	7_36-238.D	ZB-35 0.53(mm)
480-121501-2		07/26/2017 17:04	1	7_36-239.D	ZB-5 0.53(mm)
480-121501-2		07/26/2017 17:04	1	7_36-239.D	ZB-35 0.53(mm)
480-121501-4		07/26/2017 17:20	1	7_36-240.D	ZB-5 0.53(mm)
480-121501-4		07/26/2017 17:20	1	7_36-240.D	ZB-35 0.53(mm)
480-121501-5		07/26/2017 17:36	1	7_36-241.D	ZB-5 0.53(mm)
480-121501-5		07/26/2017 17:36	1	7_36-241.D	ZB-35 0.53(mm)
480-121501-6		07/26/2017 17:52	1	7_36-242.D	ZB-5 0.53(mm)
480-121501-6		07/26/2017 17:52	1	7_36-242.D	ZB-35 0.53(mm)
ZZZZZ		07/26/2017 18:08	1		ZB-5 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 07/26/2017 11:58

Analysis Batch Number: 368775 End Date: 07/26/2017 18:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/26/2017 18:08	1		ZB-35 0.53(mm)
ZZZZZ		07/26/2017 18:24	1		ZB-5 0.53(mm)
ZZZZZ		07/26/2017 18:24	1		ZB-35 0.53(mm)

8082A

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368612 Batch Start Date: 07/25/17 14:15 Batch Analyst: Palermo, Stephan M

Batch Method: 3550C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00100	O_8082spike 00059	
MB 480-368612/1		3550C, 8082A		CALC NOT SET TO RUN	2.24 g	10 mL	1 mL		
LCS 480-368612/2		3550C, 8082A		CALC NOT SET TO RUN	2.21 g	10 mL	1 mL	1 mL	
480-121501-A-3 MS	TP-11	3550C, 8082A	T	CALC NOT SET TO RUN	2.67 g	10 mL	1 mL	1 mL	
480-121501-A-3 MSD	TP-11	3550C, 8082A	T	CALC NOT SET TO RUN	2.87 g	10 mL	1 mL	1 mL	
480-121501-A-3	TP-11	3550C, 8082A	T	CALC NOT SET TO RUN	2.48 g	10 mL	1 mL		
480-121501-A-1	TP-13	3550C, 8082A	T	CALC NOT SET TO RUN	2.73 g	10 mL	1 mL		
480-121501-A-2	TP-12	3550C, 8082A	T	CALC NOT SET TO RUN	2.45 g	10 mL	1 mL		
480-121501-A-4	TP-16	3550C, 8082A	T	CALC NOT SET TO RUN	2.32 g	10 mL	1 mL		
480-121501-A-5	TP-17	3550C, 8082A	T	CALC NOT SET TO RUN	2.31 g	10 mL	1 mL		
480-121501-A-6	DUP	3550C, 8082A	T	CALC NOT SET TO RUN	2.46 g	10 mL	1 mL		

Batch Notes	
Acid used for Clean Up ID	Sulfuric; 3829039 SP 7/25/17
Blank Soil Lot Number	3934403; Gauze lot # A19115
Analyst ID - Clean Up	SP
Na2SO4 ID	3934403
Nominal Amount Used	1 g
Prep Solvent ID	4123568
Prep Solvent Name	Hexane
Prep Solvent Volume Used	10
Analyst ID - Reagent Drop Witness	SP
Perform Calculation (0=No, 1=Yes)	0

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG No.:

Project: Nash Rd. Wheatfield #932054

Client Sample ID	Lab Sample ID
TP-13	480-121501-1
TP-12	480-121501-2
TP-11	480-121501-3
TP-16	480-121501-4
TP-17	480-121501-5
DUP	480-121501-6

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-13 | Lab Sample ID: 480-121501-1

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/21/2017 09:00

Reporting Basis: DRY | Date Received: 07/21/2017 16:30

% Solids: 82.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	6360	12.1	5.3	mg/Kg			1	6010C
7440-36-0	Antimony	ND	18.1	0.48	mg/Kg			1	6010C
7440-38-2	Arsenic	3.4	2.4	0.48	mg/Kg			1	6010C
7440-39-3	Barium	27.1	0.60	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.25	0.24	0.034	mg/Kg			1	6010C
7440-43-9	Cadmium	0.11	0.24	0.036	mg/Kg	J		1	6010C
7440-70-2	Calcium	47600	60.4	4.0	mg/Kg		B	1	6010C
7440-47-3	Chromium	8.1	0.60	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	3.7	0.60	0.060	mg/Kg			1	6010C
7440-50-8	Copper	8.4	1.2	0.25	mg/Kg			1	6010C
7439-89-6	Iron	10200	12.1	4.2	mg/Kg			1	6010C
7439-92-1	Lead	5.7	1.2	0.29	mg/Kg			1	6010C
7439-95-4	Magnesium	14200	24.2	1.1	mg/Kg		B	1	6010C
7439-96-5	Manganese	267	0.24	0.039	mg/Kg		B	1	6010C
7440-02-0	Nickel	9.2	6.0	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1400	36.3	24.2	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.8	0.48	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.73	0.24	mg/Kg			1	6010C
7440-23-5	Sodium	177	169	15.7	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.3	0.36	mg/Kg			1	6010C
7440-62-2	Vanadium	16.1	0.60	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	31.8	2.4	0.77	mg/Kg			1	6010C
7439-97-6	Mercury	ND	0.023	0.0091	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-12 | Lab Sample ID: 480-121501-2

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/21/2017 10:00

Reporting Basis: DRY | Date Received: 07/21/2017 16:30

% Solids: 76.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	11200	14.1	6.2	mg/Kg			1	6010C
7440-36-0	Antimony	ND	21.2	0.56	mg/Kg			1	6010C
7440-38-2	Arsenic	8.0	2.8	0.56	mg/Kg			1	6010C
7440-39-3	Barium	73.5	0.71	0.16	mg/Kg			1	6010C
7440-41-7	Beryllium	0.49	0.28	0.039	mg/Kg			1	6010C
7440-43-9	Cadmium	1.7	0.28	0.042	mg/Kg			1	6010C
7440-70-2	Calcium	30400	70.5	4.7	mg/Kg		B	1	6010C
7440-47-3	Chromium	41.8	0.71	0.28	mg/Kg			1	6010C
7440-48-4	Cobalt	8.8	0.71	0.071	mg/Kg			1	6010C
7440-50-8	Copper	52.0	1.4	0.30	mg/Kg			1	6010C
7439-89-6	Iron	46400	14.1	4.9	mg/Kg			1	6010C
7439-92-1	Lead	43.0	1.4	0.34	mg/Kg			1	6010C
7439-95-4	Magnesium	11100	28.2	1.3	mg/Kg		B	1	6010C
7439-96-5	Manganese	387	0.28	0.045	mg/Kg		B	1	6010C
7440-02-0	Nickel	33.3	7.1	0.32	mg/Kg			1	6010C
7440-09-7	Potassium	2930	42.3	28.2	mg/Kg			1	6010C
7782-49-2	Selenium	ND	5.6	0.56	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.85	0.28	mg/Kg			1	6010C
7440-23-5	Sodium	199	197	18.3	mg/Kg			1	6010C
7440-28-0	Thallium	ND	8.5	0.42	mg/Kg			1	6010C
7440-62-2	Vanadium	25.4	0.71	0.16	mg/Kg			1	6010C
7440-66-6	Zinc	212	2.8	0.90	mg/Kg			1	6010C
7439-97-6	Mercury	0.27	0.024	0.0097	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-11 | Lab Sample ID: 480-121501-3

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/21/2017 11:00

Reporting Basis: DRY | Date Received: 07/21/2017 16:30

% Solids: 81.2

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	6360	13.1	5.7	mg/Kg		F2 F1	1	6010C
7440-36-0	Antimony	0.80	19.6	0.52	mg/Kg	J	F1	1	6010C
7440-38-2	Arsenic	3.2	2.6	0.52	mg/Kg		F2	1	6010C
7440-39-3	Barium	522	0.65	0.14	mg/Kg		F2	1	6010C
7440-41-7	Beryllium	0.27	0.26	0.037	mg/Kg		F2	1	6010C
7440-43-9	Cadmium	0.93	0.26	0.039	mg/Kg		F2 F1	1	6010C
7440-70-2	Calcium	44500	65.3	4.3	mg/Kg		F2 B	1	6010C
7440-47-3	Chromium	19.5	0.65	0.26	mg/Kg		F2 F1	1	6010C
7440-48-4	Cobalt	4.3	0.65	0.065	mg/Kg		F2	1	6010C
7440-50-8	Copper	22.4	1.3	0.27	mg/Kg			1	6010C
7439-89-6	Iron	11700	13.1	4.6	mg/Kg		F2	1	6010C
7439-92-1	Lead	87.2	1.3	0.31	mg/Kg		F2 F1	1	6010C
7439-95-4	Magnesium	15700	26.1	1.2	mg/Kg		F2 B	1	6010C
7439-96-5	Manganese	299	0.26	0.042	mg/Kg		F2 B	1	6010C
7440-02-0	Nickel	23.4	6.5	0.30	mg/Kg		F2 F1	1	6010C
7440-09-7	Potassium	1370	39.2	26.1	mg/Kg		F2 F1	1	6010C
7782-49-2	Selenium	ND	5.2	0.52	mg/Kg		F2	1	6010C
7440-22-4	Silver	1.1	0.78	0.26	mg/Kg		F2 F1	1	6010C
7440-23-5	Sodium	155	183	17.0	mg/Kg	J	F2	1	6010C
7440-28-0	Thallium	ND	7.8	0.39	mg/Kg		F2	1	6010C
7440-62-2	Vanadium	16.6	0.65	0.14	mg/Kg		F2	1	6010C
7440-66-6	Zinc	97.9	2.6	0.84	mg/Kg		F2 F1	1	6010C
7439-97-6	Mercury	0.74	0.023	0.0092	mg/Kg		F1 F2	1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-16 | Lab Sample ID: 480-121501-4

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/21/2017 14:00

Reporting Basis: DRY | Date Received: 07/21/2017 16:30

% Solids: 81.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3610	12.3	5.4	mg/Kg			1	6010C
7440-36-0	Antimony	ND	18.4	0.49	mg/Kg			1	6010C
7440-38-2	Arsenic	3.2	2.5	0.49	mg/Kg			1	6010C
7440-39-3	Barium	14.5	0.61	0.14	mg/Kg			1	6010C
7440-41-7	Beryllium	0.16	0.25	0.034	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.16	0.25	0.037	mg/Kg	J		1	6010C
7440-70-2	Calcium	44100	61.5	4.1	mg/Kg		B	1	6010C
7440-47-3	Chromium	5.9	0.61	0.25	mg/Kg			1	6010C
7440-48-4	Cobalt	3.3	0.61	0.061	mg/Kg			1	6010C
7440-50-8	Copper	7.8	1.2	0.26	mg/Kg			1	6010C
7439-89-6	Iron	8040	12.3	4.3	mg/Kg			1	6010C
7439-92-1	Lead	5.6	1.2	0.30	mg/Kg			1	6010C
7439-95-4	Magnesium	17700	24.6	1.1	mg/Kg		B	1	6010C
7439-96-5	Manganese	317	0.25	0.039	mg/Kg		B	1	6010C
7440-02-0	Nickel	7.3	6.1	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1040	36.9	24.6	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.9	0.49	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.74	0.25	mg/Kg			1	6010C
7440-23-5	Sodium	154	172	16.0	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	7.4	0.37	mg/Kg			1	6010C
7440-62-2	Vanadium	12.7	0.61	0.14	mg/Kg			1	6010C
7440-66-6	Zinc	39.3	2.5	0.79	mg/Kg			1	6010C
7439-97-6	Mercury	ND	0.025	0.010	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: TP-17 | Lab Sample ID: 480-121501-5

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG ID.:

Matrix: Solid | Date Sampled: 07/21/2017 13:00

Reporting Basis: DRY | Date Received: 07/21/2017 16:30

% Solids: 82.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	3780	11.3	5.0	mg/Kg			1	6010C
7440-36-0	Antimony	ND	17.0	0.45	mg/Kg			1	6010C
7440-38-2	Arsenic	3.8	2.3	0.45	mg/Kg			1	6010C
7440-39-3	Barium	19.5	0.57	0.12	mg/Kg			1	6010C
7440-41-7	Beryllium	0.17	0.23	0.032	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.17	0.23	0.034	mg/Kg	J		1	6010C
7440-70-2	Calcium	38000	56.7	3.7	mg/Kg		B	1	6010C
7440-47-3	Chromium	5.7	0.57	0.23	mg/Kg			1	6010C
7440-48-4	Cobalt	3.4	0.57	0.057	mg/Kg			1	6010C
7440-50-8	Copper	6.8	1.1	0.24	mg/Kg			1	6010C
7439-89-6	Iron	7820	11.3	4.0	mg/Kg			1	6010C
7439-92-1	Lead	5.4	1.1	0.27	mg/Kg			1	6010C
7439-95-4	Magnesium	15000	22.7	1.1	mg/Kg		B	1	6010C
7439-96-5	Manganese	290	0.23	0.036	mg/Kg		B	1	6010C
7440-02-0	Nickel	7.2	5.7	0.26	mg/Kg			1	6010C
7440-09-7	Potassium	1010	34.0	22.7	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.5	0.45	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.68	0.23	mg/Kg			1	6010C
7440-23-5	Sodium	140	159	14.7	mg/Kg	J		1	6010C
7440-28-0	Thallium	ND	6.8	0.34	mg/Kg			1	6010C
7440-62-2	Vanadium	12.1	0.57	0.12	mg/Kg			1	6010C
7440-66-6	Zinc	36.5	2.3	0.73	mg/Kg			1	6010C
7439-97-6	Mercury	ND	0.023	0.0094	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP
Lab Sample ID: 480-121501-6
Lab Name: TestAmerica Buffalo
Job No.: 480-121501-1
SDG ID.:
Matrix: Solid
Date Sampled: 07/21/2017 00:00
Reporting Basis: DRY
Date Received: 07/21/2017 16:30
% Solids: 83.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5030	12.1	5.3	mg/Kg			1	6010C
7440-36-0	Antimony	ND	18.2	0.49	mg/Kg			1	6010C
7440-38-2	Arsenic	3.6	2.4	0.49	mg/Kg			1	6010C
7440-39-3	Barium	18.9	0.61	0.13	mg/Kg			1	6010C
7440-41-7	Beryllium	0.22	0.24	0.034	mg/Kg	J		1	6010C
7440-43-9	Cadmium	0.13	0.24	0.036	mg/Kg	J		1	6010C
7440-70-2	Calcium	58800	60.7	4.0	mg/Kg		B	1	6010C
7440-47-3	Chromium	7.4	0.61	0.24	mg/Kg			1	6010C
7440-48-4	Cobalt	3.3	0.61	0.061	mg/Kg			1	6010C
7440-50-8	Copper	7.4	1.2	0.25	mg/Kg			1	6010C
7439-89-6	Iron	9620	12.1	4.2	mg/Kg			1	6010C
7439-92-1	Lead	5.4	1.2	0.29	mg/Kg			1	6010C
7439-95-4	Magnesium	20800	24.3	1.1	mg/Kg		B	1	6010C
7439-96-5	Manganese	325	0.24	0.039	mg/Kg		B	1	6010C
7440-02-0	Nickel	8.5	6.1	0.28	mg/Kg			1	6010C
7440-09-7	Potassium	1240	36.4	24.3	mg/Kg			1	6010C
7782-49-2	Selenium	ND	4.9	0.49	mg/Kg			1	6010C
7440-22-4	Silver	ND	0.73	0.24	mg/Kg			1	6010C
7440-23-5	Sodium	186	170	15.8	mg/Kg			1	6010C
7440-28-0	Thallium	ND	7.3	0.36	mg/Kg			1	6010C
7440-62-2	Vanadium	14.3	0.61	0.13	mg/Kg			1	6010C
7440-66-6	Zinc	32.1	2.4	0.78	mg/Kg			1	6010C
7439-97-6	Mercury	ND	0.023	0.0094	mg/Kg			1	7471B

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

ICV Source: MEI_04_ICV_00338 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00254

Analyte	ICV 480-368994/5 07/26/2017 10:30				CCV 480-368994/17 07/26/2017 18:50				CCV 480-368994/22 07/26/2017 19:31			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	18.97		18.8	101	25.05		25.0	100	25.04		25.0	100
Antimony	0.376		0.375	100	0.509		0.500	102	0.510		0.500	102
Arsenic	0.376		0.375	100	0.494		0.500	99	0.493		0.500	99
Barium	0.378		0.375	101	0.513		0.500	103	0.509		0.500	102
Beryllium	0.385		0.375	103	0.513		0.500	103	0.510		0.500	102
Cadmium	0.378		0.375	101	0.509		0.500	102	0.509		0.500	102
Calcium	19.04		18.8	102	24.81		25.0	99	24.77		25.0	99
Chromium	0.384		0.375	102	0.503		0.500	101	0.507		0.500	101
Cobalt	0.371		0.375	99	0.498		0.500	100	0.497		0.500	99
Copper	0.383		0.375	102	0.535		0.500	107	0.529		0.500	106
Iron	18.87		18.8	101	24.17		25.0	97	24.15		25.0	97
Lead	0.374		0.375	100	0.498		0.500	100	0.498		0.500	100
Magnesium	18.99		18.8	101	25.59		25.0	102	25.47		25.0	102
Manganese	0.390		0.375	104	0.529		0.500	106	0.525		0.500	105
Nickel	0.378		0.375	101	0.506		0.500	101	0.506		0.500	101
Potassium	19.15		18.8	102	26.19		25.0	105	26.09		25.0	104
Selenium	0.376		0.375	100	0.500		0.500	100	0.498		0.500	100
Silver	0.367		0.375	98	0.495		0.500	99	0.496		0.500	99
Sodium	18.89		18.8	101	25.58		25.0	102	25.48		25.0	102
Thallium	0.378		0.375	101	0.500		0.500	100	0.502		0.500	100
Vanadium	0.378		0.375	101	0.504		0.500	101	0.505		0.500	101
Zinc	0.397		0.375	106	0.506		0.500	101	0.506		0.500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

ICV Source: MEI_04_ICV_00338 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00254

Analyte	CCV 480-368994/34 07/26/2017 20:12											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	24.98		25.0	100								
Antimony	0.509		0.500	102								
Arsenic	0.491		0.500	98								
Barium	0.512		0.500	102								
Beryllium	0.514		0.500	103								
Cadmium	0.510		0.500	102								
Calcium	24.83		25.0	99								
Chromium	0.499		0.500	100								
Cobalt	0.498		0.500	100								
Copper	0.536		0.500	107								
Iron	24.24		25.0	97								
Lead	0.495		0.500	99								
Magnesium	25.54		25.0	102								
Manganese	0.527		0.500	105								
Nickel	0.506		0.500	101								
Potassium	26.53		25.0	106								
Selenium	0.496		0.500	99								
Silver	0.491		0.500	98								
Sodium	25.80		25.0	103								
Thallium	0.496		0.500	99								
Vanadium	0.500		0.500	100								
Zinc	0.502		0.500	100								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

ICV Source: MEI_10_CCVL_00149 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00149

Analyte	ICVL 480-368994/7 07/26/2017 10:37				CCVL 480-368994/19 07/26/2017 18:57				CCVL 480-368994/24 07/26/2017 19:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.213		0.200	107	0.219		0.200	110	0.203		0.200	102
Antimony	0.0203		0.0200	102	0.0193	J	0.0200	96	0.0219		0.0200	109
Arsenic	0.0156		0.0150	104	0.0136	J	0.0150	91	0.0150		0.0150	100
Barium	0.00212		0.00200	106	0.00222		0.00200	111	0.00225		0.00200	113
Beryllium	0.00208		0.00200	104	0.00199	J	0.00200	100	0.00213		0.00200	107
Cadmium	0.00214		0.00200	107	0.00201		0.00200	101	0.00203		0.00200	102
Calcium	0.512		0.500	102	0.549		0.500	110	0.512		0.500	102
Chromium	0.00437		0.00400	109	0.00474		0.00400	119	0.00441		0.00400	110
Cobalt	0.00386	J	0.00400	97	0.00395	J	0.00400	99	0.00392	J	0.00400	98
Copper	0.0105		0.0100	105	0.0111		0.0100	111	0.0106		0.0100	106
Iron	0.0526		0.0500	105	0.0585		0.0500	117	0.0574		0.0500	115
Lead	0.0100		0.0100	100	0.0107		0.0100	107	0.00990	J	0.0100	99
Magnesium	0.206		0.200	103	0.225		0.200	112	0.219		0.200	110
Manganese	0.00307		0.00300	102	0.00331		0.00300	110	0.00326		0.00300	109
Nickel	0.00964	J	0.0100	96	0.00986	J	0.0100	99	0.00974	J	0.0100	97
Potassium	0.542		0.500	108	0.519		0.500	104	0.606		0.500	121
Selenium	0.0278		0.0250	111	0.0265		0.0250	106	0.0268		0.0250	107
Silver	0.00585	J	0.00600	98	0.00560	J	0.00600	93	0.00588	J	0.00600	98
Sodium	1.02		1.00	102	1.04		1.00	104	1.04		1.00	104
Thallium	0.0204		0.0200	102	0.0208		0.0200	104	0.0209		0.0200	104
Vanadium	0.00494	J	0.00500	99	0.00539		0.00500	108	0.00507		0.00500	101
Zinc	0.0106		0.0100	106	0.0111		0.0100	111	0.0105		0.0100	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

ICV Source: MEI_10_CCVL_00149 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00149

Analyte	CCVL 480-368994/36 07/26/2017 20:19											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.224		0.200	112								
Antimony	0.0200		0.0200	100								
Arsenic	0.0152		0.0150	101								
Barium	0.00221		0.00200	111								
Beryllium	0.00209		0.00200	105								
Cadmium	0.00222		0.00200	111								
Calcium	0.507		0.500	101								
Chromium	0.00412		0.00400	103								
Cobalt	0.00398	J	0.00400	100								
Copper	0.0113		0.0100	113								
Iron	0.0537		0.0500	107								
Lead	0.0103		0.0100	103								
Magnesium	0.215		0.200	107								
Manganese	0.00324		0.00300	108								
Nickel	0.00998	J	0.0100	100								
Potassium	0.563		0.500	113								
Selenium	0.0269		0.0250	108								
Silver	0.00488	J	0.00600	81								
Sodium	1.03		1.00	103								
Thallium	0.0201		0.0200	101								
Vanadium	0.00496	J	0.00500	99								
Zinc	0.0109		0.0100	109								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

ICV Source: MEI_04_ICV_00338 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00254

Analyte	ICV 480-369047/5 07/27/2017 07:59				CCV 480-369047/19 07/27/2017 10:10				CCV 480-369047/23 07/27/2017 10:50			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	18.85		18.8	101	25.00		25.0	100	24.96		25.0	100
Antimony	0.374		0.375	100	0.498		0.500	100	0.496		0.500	99
Arsenic	0.377		0.375	101	0.501		0.500	100	0.499		0.500	100
Barium	0.377		0.375	101	0.490		0.500	98	0.490		0.500	98
Beryllium	0.382		0.375	102	0.500		0.500	100	0.494		0.500	99
Cadmium	0.378		0.375	101	0.499		0.500	100	0.498		0.500	100
Calcium	18.82		18.8	100	24.79		25.0	99	24.74		25.0	99
Chromium	0.386		0.375	103	0.514		0.500	103	0.509		0.500	102
Cobalt	0.370		0.375	99	0.493		0.500	99	0.493		0.500	99
Copper	0.384		0.375	102	0.492		0.500	98	0.490		0.500	98
Iron	18.54		18.8	99	24.23		25.0	97	24.06		25.0	96
Lead	0.374		0.375	100	0.498		0.500	100	0.498		0.500	100
Magnesium	18.87		18.8	101	24.94		25.0	100	24.95		25.0	100
Manganese	0.389		0.375	104	0.511		0.500	102	0.510		0.500	102
Nickel	0.375		0.375	100	0.498		0.500	100	0.497		0.500	99
Potassium	18.83		18.8	100	24.17		25.0	97	23.93		25.0	96
Selenium	0.373		0.375	99	0.509		0.500	102	0.504		0.500	101
Silver	0.368		0.375	98	0.515		0.500	103	0.513		0.500	103
Sodium	18.74		18.8	100	24.59		25.0	98	24.27		25.0	97
Thallium	0.382		0.375	102	0.491		0.500	98	0.492		0.500	98
Vanadium	0.375		0.375	100	0.521		0.500	104	0.517		0.500	103
Zinc	0.388		0.375	103	0.518		0.500	104	0.515		0.500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

ICV Source: MEI_10_CCVL_00149 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00149

Analyte	ICVL 480-369047/7 07/27/2017 08:06				CCVL 480-369047/21 07/27/2017 10:16				CCVL 480-369047/25 07/27/2017 10:56			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.205		0.200	103	0.210		0.200	105	0.190	J	0.200	95
Antimony	0.0202		0.0200	101	0.0192	J	0.0200	96	0.0208		0.0200	104
Arsenic	0.0186		0.0150	124	0.0168		0.0150	112	0.0164		0.0150	109
Barium	0.00212		0.00200	106	0.00204		0.00200	102	0.00204		0.00200	102
Beryllium	0.00212		0.00200	106	0.00203		0.00200	102	0.00213		0.00200	107
Cadmium	0.00210		0.00200	105	0.00210		0.00200	105	0.00217		0.00200	109
Calcium	0.504		0.500	101	0.504		0.500	101	0.498	J	0.500	100
Chromium	0.00435		0.00400	109	0.00411		0.00400	103	0.00415		0.00400	104
Cobalt	0.00408		0.00400	102	0.00400		0.00400	100	0.00406		0.00400	102
Copper	0.00986	J	0.0100	99	0.00906	J	0.0100	91	0.00885	J	0.0100	89
Iron	0.0488	J	0.0500	98	0.0468	J	0.0500	94	0.0485	J	0.0500	97
Lead	0.0106		0.0100	106	0.0106		0.0100	106	0.0105		0.0100	105
Magnesium	0.200		0.200	100	0.206		0.200	103	0.200		0.200	100
Manganese	0.00310		0.00300	103	0.00309		0.00300	103	0.00311		0.00300	104
Nickel	0.00995	J	0.0100	100	0.00954	J	0.0100	95	0.00946	J	0.0100	95
Potassium	0.527		0.500	105	0.453	J	0.500	91	0.467	J	0.500	93
Selenium	0.0257		0.0250	103	0.0228	J	0.0250	91	0.0263		0.0250	105
Silver	0.00589	J	0.00600	98	0.00518	J	0.00600	86	0.00533	J	0.00600	89
Sodium	0.997	J	1.00	100	0.982	J	1.00	98	0.969	J	1.00	97
Thallium	0.0225		0.0200	112	0.0215		0.0200	108	0.0218		0.0200	109
Vanadium	0.00485	J	0.00500	97	0.00471	J	0.00500	94	0.00487	J	0.00500	97
Zinc	0.0106		0.0100	106	0.0119		0.0100	119	0.0114		0.0100	114

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

ICV Source: MEH_HG2_WKG_01516 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_01516

Analyte	ICV 480-369052/1 07/26/2017 17:30				ICVL 480-369052/3 07/26/2017 17:33				CCV 480-369052/4 07/26/2017 17:35			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00289		0.00300	96	0.000164	J	0.000200	82	0.00191		0.00200	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

ICV Source: MEH_HG2_WKG_01516 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_01516

Analyte	CCV 480-369052/16 07/26/2017 17:53				CCV 480-369052/28 07/26/2017 18:11				CCVL 480-369052/57 07/26/2017 18:57			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00188		0.00200	94	0.00194		0.00200	97	0.000163	J	0.000200	82

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-368994/6 07/26/2017 10:33		CCB 480-368994/18 07/26/2017 18:53		CCB 480-368994/23 07/26/2017 19:34		CCB 480-368994/35 07/26/2017 20:15	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		0.102	J	ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-369047/6 07/27/2017 08:02		CCB 480-369047/20 07/27/2017 10:13		CCB 480-369047/24 07/27/2017 10:53			
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND			
Antimony	0.020	ND		ND		ND			
Arsenic	0.015	ND		ND		ND			
Barium	0.0020	ND		ND		ND			
Beryllium	0.0020	ND		ND		ND			
Cadmium	0.0020	ND		ND		ND			
Calcium	0.50	ND		ND		ND			
Chromium	0.0040	ND		ND		ND			
Cobalt	0.0040	ND		ND		ND			
Copper	0.010	ND		ND		ND			
Iron	0.050	ND		ND		ND			
Lead	0.010	ND		ND		ND			
Magnesium	0.20	ND		ND		ND			
Manganese	0.0030	ND		ND		ND			
Nickel	0.010	ND		ND		ND			
Potassium	0.50	ND		ND		ND			
Selenium	0.025	ND		ND		ND			
Silver	0.0060	ND		ND		ND			
Sodium	1.0	ND		ND		ND			
Thallium	0.020	ND		ND		ND			
Vanadium	0.0050	ND		ND		ND			
Zinc	0.010	0.00198	J	ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-369052/2 07/26/2017 17:31		CCB 480-369052/5 07/26/2017 17:36		CCB 480-369052/17 07/26/2017 17:55		CCB 480-369052/29 07/26/2017 18:12	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-368566/1-A

Instrument Code: ICAP2 Batch No.: 368994

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	6.72	J		6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	1.30	J		6010C
7439-96-5	Manganese	0.0642	J		6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 480-368567/1-A

Instrument Code: LEEMAN2 Batch No.: 369052

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: ICSA 480-368994/8 Instrument ID: ICAP2

Lab File ID: I2072617A-8.asc ICS Source: MEI_07_ICSA_00101

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**512**	**102**
Antimony		**0.0027**	
Arsenic		**0.0036**	
Barium		**0.0007**	
Beryllium		**-0.0001**	
Cadmium		**-0.0003**	
Calcium	**500**	**476**	**95**
Chromium		**-0.0005**	
Cobalt		**-0.0007**	
Copper		**-0.0037**	
Iron	**200**	**190**	**95**
Lead		**-0.0036**	
Magnesium	**500**	**526**	**105**
Manganese		**0.0003**	
Nickel		**-0.0023**	
Potassium		**0.0285**	
Selenium		**0.0041**	
Silver		**-0.0020**	
Sodium		**0.0474**	
Thallium		**-0.0025**	
Vanadium		**0.0017**	
Zinc		**0.0057**	
Boron		*-0.0007*	
Lithium		*-0.0184*	
Molybdenum		*-0.0015*	
Tin		*0.0030*	
Titanium		*-0.0004*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: ICSAB 480-368994/9 Instrument ID: ICAP2

Lab File ID: I2072617A-8.asc ICS Source: MEI_08_ICSAB_00114

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**535**	**107**
Antimony	**0.600**	**0.602**	**100**
Arsenic	**0.100**	**0.107**	**107**
Barium	**0.500**	**0.500**	**100**
Beryllium	**0.501**	**0.511**	**102**
Cadmium	**1.00**	**1.02**	**102**
Calcium	**500**	**480**	**96**
Chromium	**0.500**	**0.487**	**97**
Cobalt	**0.500**	**0.494**	**99**
Copper	**0.501**	**0.533**	**106**
Iron	**100**	**97.1**	**97**
Lead	**0.0501**	**0.0501**	**100**
Magnesium	**500**	**547**	**109**
Manganese	**0.501**	**0.506**	**101**
Nickel	**1.00**	**0.980**	**98**
Potassium		**0.0514**	
Selenium	**0.0501**	**0.0493**	**98**
Silver	**0.200**	**0.221**	**111**
Sodium		**0.176**	
Thallium	**0.100**	**0.0989**	**99**
Vanadium	**0.501**	**0.509**	**102**
Zinc	**1.00**	**0.934**	**93**
Boron		*0.0028*	
Lithium	*0.501*	*0.496*	*99*
Molybdenum		*-0.0006*	
Strontium	*0.500*	*0.486*	*97*
Tin		*0.0027*	
Titanium		*0.0010*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: ICSA 480-369047/8 Instrument ID: ICAP2

Lab File ID: I2072717A-5.asc ICS Source: MEI_07_ICSA_00101

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**504**	**101**
Antimony		**0.0014**	
Arsenic		**-0.0012**	
Barium		**0.0008**	
Beryllium		**-0.0001**	
Cadmium		**-0.0002**	
Calcium	**500**	**469**	**94**
Chromium		**0.0004**	
Cobalt		**-0.0006**	
Copper		**-0.0064**	
Iron	**200**	**188**	**94**
Lead		**0.0010**	
Magnesium	**500**	**517**	**103**
Manganese		**0.0003**	
Nickel		**-0.0017**	
Potassium		**0.0611**	
Selenium		**0.0025**	
Silver		**-0.0010**	
Sodium		**0.0423**	
Thallium		**0.0003**	
Vanadium		**0.0018**	
Zinc		**0.0062**	
Boron		*-0.0017*	
Lithium		*-0.0221*	
Molybdenum		*-0.0013*	
Tin		*0.0006*	
Titanium		*0.0012*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Lab Sample ID: ICSAB 480-369047/9 Instrument ID: ICAP2

Lab File ID: I2072717A-5.asc ICS Source: MEI_08_ICSAB_00114

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**532**	**106**
Antimony	**0.600**	**0.592**	**99**
Arsenic	**0.100**	**0.109**	**109**
Barium	**0.500**	**0.495**	**99**
Beryllium	**0.501**	**0.503**	**100**
Cadmium	**1.00**	**1.00**	**100**
Calcium	**500**	**471**	**94**
Chromium	**0.500**	**0.485**	**97**
Cobalt	**0.500**	**0.491**	**98**
Copper	**0.501**	**0.519**	**104**
Iron	**100**	**95.7**	**95**
Lead	**0.0501**	**0.0498**	**99**
Magnesium	**500**	**540**	**108**
Manganese	**0.501**	**0.502**	**100**
Nickel	**1.00**	**0.970**	**97**
Potassium		**0.0111**	
Selenium	**0.0501**	**0.0539**	**108**
Silver	**0.200**	**0.222**	**111**
Sodium		**0.165**	
Thallium	**0.100**	**0.0957**	**96**
Vanadium	**0.501**	**0.513**	**102**
Zinc	**1.00**	**0.940**	**94**
Boron		*0.0011*	
Lithium	*0.501*	*0.489*	*98*
Molybdenum		*-0.0004*	
Strontium	*0.500*	*0.479*	*96*
Tin		*0.0014*	
Titanium		*0.0032*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: TP-11 MS | Lab ID: 480-121501-3 MS

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 81.2

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9997		6360		2340	156	75-125	F1	6010C
Antimony	35.60		0.80	J	46.8	74	75-125	F1	6010C
Arsenic	39.20		3.2		46.8	77	75-125		6010C
Barium	285.9		522		46.8	-505	75-125	4	6010C
Beryllium	38.77		0.27		46.8	82	75-125		6010C
Cadmium	71.20		0.93		46.8	150	75-125	F1	6010C
Calcium	33230		44500		2340	-483	75-125	4	6010C
Chromium	54.23		19.5		46.8	74	75-125	F1	6010C
Cobalt	43.73		4.3		46.8	84	75-125		6010C
Copper	79.87		22.4		46.8	123	75-125		6010C
Iron	10740		11700		2340	-43	75-125	4	6010C
Lead	71.72		87.2		46.8	-33	75-125	F1	6010C
Magnesium	12820		15700		2340	-123	75-125	4	6010C
Manganese	270.9		299		46.8	-61	75-125	4	6010C
Nickel	56.04		23.4		46.8	70	75-125	F1	6010C
Potassium	4228		1370		2340	122	75-125		6010C
Selenium	37.96		ND		46.8	81	75-125		6010C
Silver	9.27		1.1		11.7	70	75-125	F1	6010C
Sodium	2168		155	J	2340	86	75-125		6010C
Thallium	39.90		ND		46.8	85	75-125		6010C
Vanadium	55.81		16.6		46.8	84	75-125		6010C
Zinc	109.2		97.9		46.8	24	75-125	F1	6010C
Mercury	1.84		0.74		0.381	289	80-120	E F1	7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: TP-11 MSD | Lab ID: 480-121501-3 MSD

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

% Solids: 81.2

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	14770		2640	319	75-125	39	20	F1 F2	6010C
Antimony	43.62		52.8	81	75-125	20	20		6010C
Arsenic	50.80		52.8	90	75-125	26	20	F2	6010C
Barium	570.1		52.8	91	75-125	66	20	4 F2	6010C
Beryllium	49.15		52.8	93	75-125	24	20	F2	6010C
Cadmium	51.28		52.8	95	75-125	33	20	F2	6010C
Calcium	48100		2640	135	75-125	37	20	4 F2	6010C
Chromium	71.85		52.8	99	75-125	28	20	F2	6010C
Cobalt	58.03		52.8	102	75-125	28	20	F2	6010C
Copper	80.21		52.8	109	75-125	0	20		6010C
Iron	15910		2640	158	75-125	39	20	4 F2	6010C
Lead	90.87		52.8	7	75-125	24	20	F1 F2	6010C
Magnesium	18320		2640	99	75-125	35	20	4 F2	6010C
Manganese	398.4		52.8	187	75-125	38	20	4 F2	6010C
Nickel	83.28		52.8	113	75-125	39	20	F2	6010C
Potassium	6118		2640	180	75-125	37	20	F1 F2	6010C
Selenium	47.53		52.8	90	75-125	22	20	F2	6010C
Silver	11.78		13.2	81	75-125	24	20	F2	6010C
Sodium	2820		2650	101	75-125	26	20	F2	6010C
Thallium	51.35		52.8	97	75-125	25	20	F2	6010C
Vanadium	74.76		52.8	110	75-125	29	20	F2	6010C
Zinc	163.4		52.8	124	75-125	40	20	F2	6010C
Mercury	1.17		0.397	110	80-120	44	20	E F2	7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: TP-11 PDS | Lab ID: 480-121501-3 PDS

Lab Name: TestAmerica Buffalo | Job No.: 480-121501-1

SDG No.:

Matrix: Solid | Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9007		6360		2610	102	80-120		6010C
Antimony	50.73		0.80	J	52.2	96	80-120		6010C
Arsenic	49.66		3.2		52.2	89	80-120		6010C
Barium	586.6		522		52.2	124	80-120	W	6010C
Beryllium	48.85		0.27		52.2	93	80-120		6010C
Cadmium	50.88		0.93		52.2	96	80-120		6010C
Calcium	47860		44500		2610	NC	80-120		6010C
Chromium	66.14		19.5		52.2	89	80-120		6010C
Cobalt	56.32		4.3		52.2	100	80-120		6010C
Copper	77.02		22.4		52.2	104	80-120		6010C
Iron	14360		11700		2610	100	80-120		6010C
Lead	144.5		87.2		52.2	110	80-120		6010C
Magnesium	18770		15700		2610	118	80-120		6010C
Manganese	360.3		299		52.2	117	80-120		6010C
Nickel	77.11		23.4		52.2	103	80-120		6010C
Potassium	3981		1370		2610	100	80-120		6010C
Selenium	47.29		ND		52.2	91	80-120		6010C
Silver	13.05		1.1		13.1	92	80-120		6010C
Sodium	2653		155	J	2620	96	80-120		6010C
Thallium	50.08		ND		52.2	96	80-120		6010C
Vanadium	65.28		16.6		52.2	93	80-120		6010C
Zinc	146.8		97.9		52.2	94	80-120		6010C

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-368566/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

Sample Matrix: Solid LCS Source: MED_SRM_D087_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	8200	10620		129.5	40.0	159.8		6010C
Antimony	105	78.59		74.8	19.6	254.3		6010C
Arsenic	221	213.9		96.8	71.0	133.5		6010C
Barium	428	427.9		100	74.3	125.5		6010C
Beryllium	112	112.0		100.0	75.0	125.0		6010C
Cadmium	126	122.0		96.8	73.3	126.2		6010C
Calcium	6160	6033		97.9	73.9	126.1		6010C
Chromium	74.7	77.32		103.5	68.5	131.3		6010C
Cobalt	198	231.7		117.0	74.7	125.8		6010C
Copper	83.3	87.75		105.3	73.8	130.9		6010C
Iron	14600	16710		114.4	36.1	163.7		6010C
Lead	76.9	93.34		121.4	68.8	131.3		6010C
Magnesium	3180	3265		102.7	67.0	133.3		6010C
Manganese	452	483.8		107.0	76.5	123.5		6010C
Nickel	178	213.3		119.8	73.6	128.7		6010C
Potassium	2820	3389		120.2	62.1	137.9		6010C
Selenium	111	106.6		96.1	65.7	134.2		6010C
Silver	59.6	57.11		95.8	66.8	133.1		6010C
Sodium	643	684.6		106.5	54.9	145.1		6010C
Thallium	151	167.8		111.2	68.2	131.1		6010C
Vanadium	150	156.8		104.5	70.7	129.3		6010C
Zinc	338	326.9		96.7	71.9	127.8		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 480-368567/2-A ^10

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

Sample Matrix: Solid LCS Source: MED_SRM_D087_00006

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	12.6	11.28		89.5	44.4	128.6		7471B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-121501-3

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-121501-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	6360		6752		6.2		6010C
Antimony	0.80	J	ND		NC		6010C
Arsenic	3.2		3.91	J	NC		6010C
Barium	522		550.4		5.4		6010C
Beryllium	0.27		0.261	J	NC		6010C
Cadmium	0.93		1.14	J	NC		6010C
Calcium	44500		49170		10		6010C
Chromium	19.5		21.38		9.8		6010C
Cobalt	4.3		4.24		2.1		6010C
Copper	22.4		22.63		0.79		6010C
Iron	11700		13000		11	V	6010C
Lead	87.2		86.88		0.37		6010C
Magnesium	15700		16830		7.3		6010C
Manganese	299		330.8		10		6010C
Nickel	23.4		22.79	J	2.7		6010C
Potassium	1370		1457		6.3		6010C
Selenium	ND		ND		NC		6010C
Silver	1.1		ND		NC		6010C
Sodium	155	J	166.3	J	NC		6010C
Thallium	ND		ND		NC		6010C
Vanadium	16.6		17.90		7.7		6010C
Zinc	97.9		112.1		15	V	6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-121501-3

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-121501-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	0.74		0.813		10		7471B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG Number:

Matrix: Solid Instrument ID: ICAP2

Method: 6010C MDL Date: 06/04/2015 15:22

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum	308.215	10	4.4
Antimony	206.833	15	0.4
Arsenic	189.042	2	0.4
Barium	455.403	0.5	0.11
Beryllium	313.042	0.2	0.028
Cadmium	228.802	0.2	0.03
Calcium	317.933	50	3.3
Chromium	267.716	0.5	0.2
Cobalt	228.616	0.5	0.05
Copper	327.396	1	0.21
Iron	259.940	10	3.5
Lead	220.353	1	0.24
Magnesium	279.079	20	0.927
Manganese	257.610	0.2	0.032
Nickel	231.604	5	0.23
Potassium	766.490	30	20
Selenium	196.090	4	0.4
Silver	328.068	0.6	0.2
Sodium	589.592	140	13
Thallium	190.856	6	0.3
Vanadium	292.402	0.5	0.11
Zinc	206.200	2	0.64

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG Number:

Matrix: Solid Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 10:53

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7471B MDL Date: 01/29/2010 00:00

Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury	253.7	0.02	0.0081

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG Number:

Matrix: Solid Instrument ID: LEEMAN2

Method: 7471B XMDL Date: 01/29/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Al	As	Be	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Se
Aluminum	308.215												0.021502		
Antimony	206.833							0.015259		-0.000068					
Arsenic	189.042	-0.000017						-0.016071					-0.005260		
Barium	455.403														
Beryllium	313.042														
Boron	208.959												0.043278		
Cadmium	228.802		0.010934							-0.000006					
Calcium	317.933														
Chromium	267.716									-0.000010		0.000052			
Cobalt	228.616									-0.000003			-0.001257		
Copper	327.396				0.000030					-0.000034					
Iron	259.940														
Lead	220.353	-0.000020							0.000134	0.000031			-0.002133		
Lithium	670.784				0.000078										
Magnesium	279.079											-0.003617			
Manganese	257.610	0.000007								0.000008					
Molybdenum	202.030														
Nickel	231.604									0.000018					
Potassium	766.490														
Selenium	196.090	-0.000180										0.000419			
Silicon	288.158							-0.000713							
Silver	328.068											0.000149			
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034	-0.000327			-0.000197										
Thallium	190.856						0.001873					0.000754			
Tin	189.989														
Titanium	334.904				0.000010			0.000294					0.000785		
Vanadium	292.402									0.000020		0.000057	-0.009464		
Zinc	206.200							-0.000300							

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Si	Sn	Ti	Tl	V									
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042			-0.00065367											
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616			0.002032											
Copper	327.396			-0.00018661											
Iron	259.940														
Lead	220.353			-0.00070612											
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610					00080073									
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856					-0.006240									
Tin	189.989			-0.00012256											

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Si	Sn	Ti	Tl	V									
Titanium	334.904														
Vanadium	292.402			0.000751											
Zinc	206.200														

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-121501-1

SDG No.:

Instrument ID: ICAP2 Date: 02/16/2017 09:13

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	5000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-121501-1

SDG No.:

Instrument ID: LEEMAN2 Date: 10/13/2015 15:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7471B

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-368566/1-A	07/25/2017 15:15	368566	+0.4751		50
LCSSRM 480-368566/2-A	07/25/2017 15:15	368566	+0.4490		50
480-121501-1	07/25/2017 15:15	368566	+0.4995		50
480-121501-2	07/25/2017 15:15	368566	+0.4660		50
480-121501-3	07/25/2017 15:15	368566	+0.4718		50
480-121501-3 MS	07/25/2017 15:15	368566	+0.5270		50
480-121501-3 MSD	07/25/2017 15:15	368566	+0.4664		50
480-121501-4	07/25/2017 15:15	368566	+0.4990		50
480-121501-5	07/25/2017 15:15	368566	+0.5359		50
480-121501-6	07/25/2017 15:15	368566	+0.4917		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 480-368567/1-A	07/26/2017 16:00	368567	+0.6522		50
LCSSRM 480-368567/2-A ^10	07/26/2017 16:00	368567	+0.1600		50
480-121501-1	07/26/2017 16:00	368567	+0.6425		50
480-121501-2	07/26/2017 16:00	368567	+0.6584		50
480-121501-3	07/26/2017 16:00	368567	+0.6478		50
480-121501-3 MS	07/26/2017 16:00	368567	+0.6462		50
480-121501-3 MSD	07/26/2017 16:00	368567	+0.6202		50
480-121501-4	07/26/2017 16:00	368567	+0.5953		50
480-121501-5	07/26/2017 16:00	368567	+0.6261		50
480-121501-6	07/26/2017 16:00	368567	+0.6149		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/26/2017 10:16 End Date: 07/26/2017 21:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-368994/1	1		10:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-368994/2			10:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-368994/3			10:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-368994/4			10:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-368994/5	1		10:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-368994/6	1		10:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-368994/7	1		10:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-368994/8	1		10:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-368994/9	1		10:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			10:47																				
ZZZZZZ			10:50																				
ZZZZZZ			10:54																				
ZZZZZZ			11:01																				
ZZZZZZ			11:04																				
CCV 480-368994/15			11:08																				
CCB 480-368994/16			11:11																				
CCV 480-368994/17	1		18:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-368994/18	1		18:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-368994/19	1		18:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-368566/1-A	1	T	19:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 480-368566/2-A	1	T	19:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-368994/22	1		19:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-368994/23	1		19:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-368994/24	1		19:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121501-1	1	T	19:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121501-2	1	T	19:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121501-3	1	T	19:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121501-3 SD	5	T	19:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121501-3 PDS	1	T	19:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121501-3 MS	1	T	19:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121501-3 MSD	1	T	20:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121501-4	1	T	20:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121501-5	1	T	20:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-368994/34	1		20:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-368994/35	1		20:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-368994/36	1		20:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:22																				
ZZZZZZ			20:26																				
ZZZZZZ			20:29																				
ZZZZZZ			20:33																				
ZZZZZZ			20:36																				
ZZZZZZ			20:39																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/26/2017 10:16 End Date: 07/26/2017 21:00

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			20:43																				
ZZZZZZ			20:46																				
ZZZZZZ			20:50																				
CCV 480-368994/46			20:53																				
CCB 480-368994/47			20:56																				
CCVL 480-368994/48			21:00																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/26/2017 10:16 End Date: 07/26/2017 21:00

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-368994/1	1		10:16	X	X																		
IC 480-368994/2			10:20	X	X																		
IC 480-368994/3			10:23	X	X																		
IC 480-368994/4			10:27	X	X																		
ICV 480-368994/5	1		10:30	X	X																		
ICB 480-368994/6	1		10:33	X	X																		
ICVL 480-368994/7	1		10:37	X	X																		
ICSA 480-368994/8	1		10:40	X	X																		
ICSAB 480-368994/9	1		10:43	X	X																		
ZZZZZZ			10:47																				
ZZZZZZ			10:50																				
ZZZZZZ			10:54																				
ZZZZZZ			11:01																				
ZZZZZZ			11:04																				
CCV 480-368994/15			11:08																				
CCB 480-368994/16			11:11																				
CCV 480-368994/17	1		18:50	X	X																		
CCB 480-368994/18	1		18:53	X	X																		
CCVL 480-368994/19	1		18:57	X	X																		
MB 480-368566/1-A	1	T	19:24	X	X																		
LCSSRM 480-368566/2-A	1	T	19:28	X	X																		
CCV 480-368994/22	1		19:31	X	X																		
CCB 480-368994/23	1		19:34	X	X																		
CCVL 480-368994/24	1		19:37	X	X																		
480-121501-1	1	T	19:41	X	X																		
480-121501-2	1	T	19:44	X	X																		
480-121501-3	1	T	19:48	X	X																		
480-121501-3 SD	5	T	19:51	X	X																		
480-121501-3 PDS	1	T	19:55	X	X																		
480-121501-3 MS	1	T	19:58	X	X																		
480-121501-3 MSD	1	T	20:02	X	X																		
480-121501-4	1	T	20:05	X	X																		
480-121501-5	1	T	20:08	X	X																		
CCV 480-368994/34	1		20:12	X	X																		
CCB 480-368994/35	1		20:15	X	X																		
CCVL 480-368994/36	1		20:19	X	X																		
ZZZZZZ			20:22																				
ZZZZZZ			20:26																				
ZZZZZZ			20:29																				
ZZZZZZ			20:33																				
ZZZZZZ			20:36																				
ZZZZZZ			20:39																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/26/2017 10:16 End Date: 07/26/2017 21:00

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			20:43																				
ZZZZZZ			20:46																				
ZZZZZZ			20:50																				
CCV 480-368994/46			20:53																				
CCB 480-368994/47			20:56																				
CCVL 480-368994/48			21:00																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/27/2017 07:46 End Date: 07/27/2017 10:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-369047/1	1		07:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-369047/2			07:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-369047/3			07:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-369047/4			07:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-369047/5	1		07:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-369047/6	1		08:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-369047/7	1		08:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-369047/8	1		08:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-369047/9	1		08:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			08:16																				
ZZZZZZ			08:19																				
ZZZZZZ			08:22																				
ZZZZZZ			08:28																				
ZZZZZZ			08:32																				
CCV 480-369047/15			08:35																				
CCB 480-369047/16			08:38																				
CCVL 480-369047/17			08:42																				
CCVL 480-369047/18			08:57																				
CCV 480-369047/19	1		10:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-369047/20	1		10:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-369047/21	1		10:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-121501-6	1	T	10:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-369047/23	1		10:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-369047/24	1		10:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-369047/25	1		10:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 07/27/2017 07:46 End Date: 07/27/2017 10:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-369047/1	1		07:46	X	X																		
IC 480-369047/2			07:49	X	X																		
IC 480-369047/3			07:53	X	X																		
IC 480-369047/4			07:56	X	X																		
ICV 480-369047/5	1		07:59	X	X																		
ICB 480-369047/6	1		08:02	X	X																		
ICVL 480-369047/7	1		08:06	X	X																		
ICSA 480-369047/8	1		08:09	X	X																		
ICSAB 480-369047/9	1		08:12	X	X																		
ZZZZZZ			08:16																				
ZZZZZZ			08:19																				
ZZZZZZ			08:22																				
ZZZZZZ			08:28																				
ZZZZZZ			08:32																				
CCV 480-369047/15			08:35																				
CCB 480-369047/16			08:38																				
CCVL 480-369047/17			08:42																				
CCVL 480-369047/18			08:57																				
CCV 480-369047/19	1		10:10	X	X																		
CCB 480-369047/20	1		10:13	X	X																		
CCVL 480-369047/21	1		10:16	X	X																		
480-121501-6	1	T	10:43	X	X																		
CCV 480-369047/23	1		10:50	X	X																		
CCB 480-369047/24	1		10:53	X	X																		
CCVL 480-369047/25	1		10:56	X	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 07/26/2017 17:30 End Date: 07/26/2017 18:57

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-369052/1	1		17:30	X																			
ICB 480-369052/2	1		17:31	X																			
ICVL 480-369052/3	1		17:33	X																			
CCV 480-369052/4	1		17:35	X																			
CCB 480-369052/5	1		17:36	X																			
MB 480-368567/1-A	1	T	17:37	X																			
LCSSRM 480-368567/2-A ^10	10	T	17:39	X																			
ZZZZZZ			17:40																				
ZZZZZZ			17:42																				
ZZZZZZ			17:44																				
ZZZZZZ			17:45																				
ZZZZZZ			17:47																				
480-121501-1	1	T	17:48	X																			
480-121501-2	1	T	17:50	X																			
480-121501-3	1	T	17:51	X																			
CCV 480-369052/16	1		17:53	X																			
CCB 480-369052/17	1		17:55	X																			
480-121501-3 SD	5	T	17:56	X																			
480-121501-3 MS	1	T	17:57	X																			
480-121501-3 MSD	1	T	17:59	X																			
480-121501-4	1	T	18:00	X																			
480-121501-5	1	T	18:02	X																			
480-121501-6	1	T	18:03	X																			
ZZZZZZ			18:04																				
ZZZZZZ			18:06																				
ZZZZZZ			18:07																				
ZZZZZZ			18:09																				
CCV 480-369052/28	1		18:11	X																			
CCB 480-369052/29	1		18:12	X																			
ZZZZZZ			18:14																				
ZZZZZZ			18:16																				
ZZZZZZ			18:17																				
ZZZZZZ			18:19																				
ZZZZZZ			18:20																				
ZZZZZZ			18:22																				
ZZZZZZ			18:23																				
ZZZZZZ			18:25																				
ZZZZZZ			18:26																				
ZZZZZZ			18:28																				
CCV 480-369052/40			18:30																				
CCB 480-369052/41			18:31																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 07/26/2017 17:30 End Date: 07/26/2017 18:57

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			18:33																				
ZZZZZZ			18:34																				
ZZZZZZ			18:36																				
ZZZZZZ			18:37																				
ZZZZZZ			18:40																				
ZZZZZZ			18:41																				
ZZZZZZ			18:43																				
ZZZZZZ			18:44																				
ZZZZZZ			18:45																				
ZZZZZZ			18:47																				
CCV 480-369052/52			18:49																				
CCB 480-369052/53			18:50																				
ZZZZZZ			18:52																				
CCV 480-369052/55			18:53																				
CCB 480-369052/56			18:55																				
CCVL 480-369052/57	1		18:57	X																			

Prep Types

T = Total/NA

Run File: I2072617A Instrument: ICAP2

Analyst: JRK JRK 7/27/17 Data Review: 7/27/17

Spikes Ids: 4027863(W1), 3903387(W2), 4076679(Sn), 4076667(Ag), 3900427(Si), 3885452(TCLP)

Pipette IDs: 06/16/17-(1-9, 11)
Internal Standard: 4147891

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2072617A	ICIS-4130963	07/26/17 10:16 AM	Standard
2	I2072617A	IC-4130962	07/26/17 10:20 AM	Standard
3	I2072617A	IC-4121446	07/26/17 10:23 AM	Standard
4	I2072617A	IC-4121445	07/26/17 10:27 AM	Standard
5	I2072617A	ICV-4147886	07/26/17 10:30 AM	QC
6	I2072617A	ICB-4130963	07/26/17 10:33 AM	QC
7	I2072617A	ICVL-4147888	07/26/17 10:37 AM	QC
8	I2072617A	ICSA-4090634	07/26/17 10:40 AM	QC
9	I2072617A	ICSAB-4093406	07/26/17 10:43 AM	QC
10	I2072617A	ICEX1	07/26/17 10:47 AM	Unknown
11	I2072617A	ICEX2	07/26/17 10:50 AM	Unknown
12	I2072617A	ICEX3	07/26/17 10:54 AM	Unknown
13	I2072617A	ICEX4	07/26/17 11:01 AM	Unknown
14	I2072617A	ICEX5	07/26/17 11:04 AM	Unknown
15	I2072617A	CCV-4147885	07/26/17 11:08 AM	QC
16	I2072617A	CCB-4130963	07/26/17 11:11 AM	QC
17	I2072617A	CCVL-4147888	07/26/17 11:20 AM	QC
18	I2072617A	mb 480-368171/1-a	07/26/17 11:24 AM	Unknown
19	I2072617A	lcs 480-368171/2-a	07/26/17 11:27 AM	Unknown
20	I2072617A	121361-a-2-b@5	07/26/17 11:30 AM	Unknown
21	I2072617A	121361-a-2-c ms@5	07/26/17 11:34 AM	Unknown
22	I2072617A	121361-a-2-d msd@5	07/26/17 11:38 AM	Unknown
23	I2072617A	BLANK	07/26/17 11:41 AM	Unknown
24	I2072617A	480-121340-a-1-b	07/26/17 11:45 AM	Unknown
25	I2072617A	480-121369-b-1-a	07/26/17 11:48 AM	Unknown
26	I2072617A	BLANK	07/26/17 11:52 AM	Unknown
27	I2072617A	CCV-4147885	07/26/17 11:55 AM	QC
28	I2072617A	CCB-4130963	07/26/17 11:58 AM	QC
29	I2072617A	CCVL-4147888	07/26/17 12:02 PM	QC
30	I2072617A	lb 480-368350/1-b	07/26/17 12:05 PM	Unknown
31	I2072617A	mb 480-368572/2-a	07/26/17 12:09 PM	Unknown
32	I2072617A	lcs 480-368572/3-a	07/26/17 12:12 PM	Unknown
33	I2072617A	480-121205-a-2-f	07/26/17 12:16 PM	Unknown
34	I2072617A	480-121205-a-5-d	07/26/17 12:19 PM	Unknown
35	I2072617A	480-121365-a-2-b	07/26/17 12:23 PM	Unknown
36	I2072617A	480-121365-a-3-b	07/26/17 12:26 PM	Unknown
37	I2072617A	480-121389-a-2-b	07/26/17 12:30 PM	Unknown
38	I2072617A	480-121389-a-2-bSD@5	07/26/17 12:33 PM	Unknown
39	I2072617A	CCV-4147885	07/26/17 12:37 PM	QC
40	I2072617A	CCB-4130963	07/26/17 12:40 PM	QC
41	I2072617A	CCVL-4147888	07/26/17 12:44 PM	QC
42	I2072617A	480-121389-a-2-b PDS	07/26/17 12:47 PM	Unknown

43	I2072617A	480-121389-a-2-c ms	07/26/17 12:50 PM Unknown
44	I2072617A	480-121389-a-2-d msd	07/26/17 12:54 PM Unknown
45	I2072617A	480-121438-a-1-d	07/26/17 12:57 PM Unknown
46	I2072617A	480-121438-a-1-d@5	07/26/17 01:01 PM Unknown
47	I2072617A	BLANK	07/26/17 01:04 PM Unknown
48	I2072617A	lb 480-368302/1-b	07/26/17 01:08 PM Unknown
49	I2072617A	mb 480-368367/2-a	07/26/17 01:11 PM Unknown
50	I2072617A	lcs 480-368367/3-a	07/26/17 01:15 PM Unknown
51	I2072617A	CCV-4147885	07/26/17 01:18 PM QC
52	I2072617A	CCB-4130963	07/26/17 01:21 PM QC
53	I2072617A	CCVL-4147888	07/26/17 01:25 PM QC
54	I2072617A	480-121360-c-1-b@10	07/26/17 01:28 PM Unknown
55	I2072617A	480-121360-c-1-b@100	07/26/17 01:32 PM Unknown
56	I2072617A	BLANK	07/26/17 01:36 PM Unknown
57	I2072617A	BLANK	07/26/17 01:39 PM Unknown
58	I2072617A	121362-f-1-b@100	07/26/17 01:43 PM Unknown
59	I2072617A	121362-f-1-bSD@500	07/26/17 01:46 PM Unknown
60	I2072617A	121362-f-1-bPDS@100	07/26/17 01:50 PM Unknown
61	I2072617A	121362-f-1-c ms@100	07/26/17 01:53 PM Unknown
62	I2072617A	121362-f-1-d msd@100	07/26/17 01:57 PM Unknown
63	I2072617A	CCV-4147885	07/26/17 02:01 PM QC
64	I2072617A	CCB-4130963	07/26/17 02:04 PM QC
65	I2072617A	CCVL-4147888	07/26/17 02:07 PM QC
66	I2072617A	121362-f-1-b@10	07/26/17 02:11 PM Unknown
67	I2072617A	121362-f-1-bSD@50	07/26/17 02:15 PM Unknown
68	I2072617A	121362-f-1-bPDS@10	07/26/17 02:18 PM Unknown
69	I2072617A	121362-f-1-c ms@10	07/26/17 02:22 PM Unknown
70	I2072617A	121362-f-1-d msd@10	07/26/17 02:25 PM Unknown
71	I2072617A	BLANK	07/26/17 02:29 PM Unknown
72	I2072617A	480-121365-b-1-b	07/26/17 02:33 PM Unknown
73	I2072617A	480-121376-e-1-b@100	07/26/17 02:36 PM Unknown
74	I2072617A	BLANK	07/26/17 02:40 PM Unknown
75	I2072617A	CCV-4147885	07/26/17 02:43 PM QC
76	I2072617A	CCB-4130963	07/26/17 02:46 PM QC
77	I2072617A	CCVL-4147888	07/26/17 02:50 PM QC
78	I2072617A	480-121376-e-1-b@10	07/26/17 02:53 PM Unknown
79	I2072617A	480-121380-c-1-b@10	07/26/17 02:57 PM Unknown
80	I2072617A	480-121380-c-1-b@100	07/26/17 03:01 PM Unknown
81	I2072617A	BLANK	07/26/17 03:04 PM Unknown
82	I2072617A	480-121453-c-1-b	07/26/17 03:08 PM Unknown
83	I2072617A	480-121453-d-2-b	07/26/17 03:11 PM Unknown
84	I2072617A	lcsd 480-368367/13-a	07/26/17 03:15 PM Unknown
85	I2072617A	BLANK	07/26/17 03:18 PM Unknown
86	I2072617A	BLANK	07/26/17 03:22 PM Unknown
87	I2072617A	CCV-4147885	07/26/17 03:25 PM QC
88	I2072617A	CCB-4130963	07/26/17 03:29 PM QC
89	I2072617A	CCVL-4147888	07/26/17 03:32 PM QC
90	I2072617A	mb 480-368425/1-a	07/26/17 03:36 PM Unknown
91	I2072617A	lcssrm 480-368425/2-	07/26/17 03:39 PM Unknown
92	I2072617A	480-121411-c-1-b	07/26/17 03:42 PM Unknown
93	I2072617A	480-121411-c-2-b	07/26/17 03:46 PM Unknown
94	I2072617A	480-121411-c-3-d	07/26/17 03:49 PM Unknown

95	I2072617A	480-121411-c-3-dSD@5	07/26/17 03:53 PM Unknown
96	I2072617A	480-121411-c-3-d PDS	07/26/17 03:56 PM Unknown
97	I2072617A	480-121411-c-3-e ms	07/26/17 03:59 PM Unknown
98	I2072617A	480-121411-c-3-f msd	07/26/17 04:03 PM Unknown
99	I2072617A	CCV-4147885	07/26/17 04:06 PM QC
100	I2072617A	CCB-4130963	07/26/17 04:09 PM QC
101	I2072617A	CCVL-4147888	07/26/17 04:13 PM QC
102	I2072617A	480-121411-c-4-b	07/26/17 04:16 PM Unknown
103	I2072617A	480-121458-c-2-a	07/26/17 04:20 PM Unknown
104	I2072617A	480-121458-a-4-a	07/26/17 04:23 PM Unknown
105	I2072617A	480-121458-c-5-a	07/26/17 04:27 PM Unknown
106	I2072617A	480-121458-d-6-a	07/26/17 04:30 PM Unknown
107	I2072617A	480-121458-d-8-a	07/26/17 04:34 PM Unknown
108	I2072617A	480-121458-b-13-a	07/26/17 04:37 PM Unknown
109	I2072617A	BLANK	07/26/17 04:41 PM Unknown
110	I2072617A	mb 480-368588/1-a	07/26/17 04:44 PM Unknown
111	I2072617A	CCV-4147885	07/26/17 04:47 PM QC
112	I2072617A	CCB-4130963	07/26/17 04:51 PM QC
113	I2072617A	CCVL-4147888	07/26/17 04:54 PM QC
114	I2072617A	lcssrm 480-368588/2-	07/26/17 04:58 PM Unknown
115	I2072617A	480-121578-c-1-b	07/26/17 05:01 PM Unknown
116	I2072617A	480-121578-c-2-b	07/26/17 05:04 PM Unknown
117	I2072617A	480-121578-a-3-b	07/26/17 05:08 PM Unknown
118	I2072617A	480-121578-a-3-bSD@5	07/26/17 05:11 PM Unknown
119	I2072617A	480-121578-a-3-b PDS	07/26/17 05:14 PM Unknown
120	I2072617A	480-121578-c-3-c ms	07/26/17 05:18 PM Unknown
121	I2072617A	480-121578-c-3-d msd	07/26/17 05:21 PM Unknown
122	I2072617A	480-121578-c-4-b	07/26/17 05:25 PM Unknown
123	I2072617A	CCV-4147885	07/26/17 05:28 PM QC
124	I2072617A	CCB-4130963	07/26/17 05:31 PM QC
125	I2072617A	CCVL-4147888	07/26/17 05:35 PM QC
126	I2072617A	480-121578-c-5-b	07/26/17 05:38 PM Unknown
127	I2072617A	480-121578-c-6-b	07/26/17 05:42 PM Unknown
128	I2072617A	480-121578-c-7-b	07/26/17 05:45 PM Unknown
129	I2072617A	480-121578-a-8-b	07/26/17 05:48 PM Unknown
130	I2072617A	480-121494-a-1-a	07/26/17 05:52 PM Unknown
131	I2072617A	BLANK	07/26/17 05:55 PM Unknown
132	I2072617A	mb 480-368587/1-a	07/26/17 05:59 PM Unknown
133	I2072617A	lcssrm 480-368587/2-	07/26/17 06:02 PM Unknown
134	I2072617A	480-121506-c-16-b	07/26/17 06:05 PM Unknown
135	I2072617A	CCV-4147885	07/26/17 06:09 PM QC
136	I2072617A	CCB-4130963	07/26/17 06:12 PM QC
137	I2072617A	CCVL-4147888	07/26/17 06:16 PM QC
138	I2072617A	480-121506-a-17-a	07/26/17 06:19 PM Unknown
139	I2072617A	121506-a-18-a	07/26/17 06:23 PM Unknown
140	I2072617A	121506-a-18-aSD@5	07/26/17 06:26 PM Unknown
141	I2072617A	121506-a-18-a PDS	07/26/17 06:29 PM Unknown
142	I2072617A	121506-a-18-b ms	07/26/17 06:33 PM Unknown
143	I2072617A	121506-a-18-c msd	07/26/17 06:36 PM Unknown
144	I2072617A	480-121506-a-19-a	07/26/17 06:40 PM Unknown
145	I2072617A	480-121506-c-20-b	07/26/17 06:43 PM Unknown
146	I2072617A	480-121506-c-21-d	07/26/17 06:47 PM Unknown

147	I2072617A	CCV-4147885	07/26/17 06:50 PM QC
148	I2072617A	CCB-4130963	07/26/17 06:53 PM QC
149	I2072617A	CCVL-4147888	07/26/17 06:57 PM QC
150	I2072617A	480-121506-c-21-e ms	07/26/17 07:00 PM Unknown
151	I2072617A	480-121506-c-21-f ms	07/26/17 07:04 PM Unknown
152	I2072617A	480-121506-c-22-b	07/26/17 07:07 PM Unknown
153	I2072617A	480-121506-c-23-b	07/26/17 07:10 PM Unknown
154	I2072617A	480-121506-a-26-a	07/26/17 07:14 PM Unknown
155	I2072617A	480-121506-c-27-b	07/26/17 07:17 PM Unknown
156	I2072617A	BLANK	07/26/17 07:21 PM Unknown
157	I2072617A	mb 480-368566/1-a	07/26/17 07:24 PM Unknown
158	I2072617A	lcssrm 480-368566/2-	07/26/17 07:28 PM Unknown
159	I2072617A	CCV-4147885	07/26/17 07:31 PM QC
160	I2072617A	CCB-4130963	07/26/17 07:34 PM QC
161	I2072617A	CCVL-4147888	07/26/17 07:37 PM QC
162	I2072617A	480-121501-c-1-a	07/26/17 07:41 PM Unknown
163	I2072617A	480-121501-c-2-a	07/26/17 07:44 PM Unknown
164	I2072617A	480-121501-c-3-a	07/26/17 07:48 PM Unknown
165	I2072617A	480-121501-c-3-aSD@5	07/26/17 07:51 PM Unknown
166	I2072617A	480-121501-c-3-a PDS	07/26/17 07:55 PM Unknown
167	I2072617A	480-121501-c-3-b ms	07/26/17 07:58 PM Unknown
168	I2072617A	480-121501-c-3-c msd	07/26/17 08:02 PM Unknown
169	I2072617A	480-121501-c-4-a	07/26/17 08:05 PM Unknown
170	I2072617A	480-121501-c-5-a	07/26/17 08:08 PM Unknown
171	I2072617A	CCV-4147885	07/26/17 08:12 PM QC
172	I2072617A	CCB-4130963	07/26/17 08:15 PM QC
173	I2072617A	CCVL-4147888	07/26/17 08:19 PM QC
174	I2072617A	480-121501-c-6-a	07/26/17 08:22 PM Unknown
175	I2072617A	480-121550-c-1-a	07/26/17 08:26 PM Unknown
176	I2072617A	480-121550-d-3-a	07/26/17 08:29 PM Unknown
177	I2072617A	480-121550-a-8-a	07/26/17 08:33 PM Unknown
178	I2072617A	480-121550-a-11-a	07/26/17 08:36 PM Unknown
179	I2072617A	480-121393-b-2-a	07/26/17 08:39 PM Unknown
180	I2072617A	480-121389-c-2-a	07/26/17 08:43 PM Unknown
181	I2072617A	480-121492-a-1-a	07/26/17 08:46 PM Unknown
182	I2072617A	480-121492-a-1-a@10	07/26/17 08:50 PM Unknown
183	I2072617A	CCV-4147885	07/26/17 08:53 PM QC
184	I2072617A	CCB-4130963	07/26/17 08:56 PM QC
185	I2072617A	CCVL-4147888	07/26/17 09:00 PM QC
186	I2072617A	mb 480-368710/1-a	07/26/17 09:03 PM Unknown
187	I2072617A	lcs 480-368710/2-a	07/26/17 09:07 PM Unknown
188	I2072617A	480-121588-e-1-b	07/26/17 09:10 PM Unknown
189	I2072617A	480-121588-e-2-b	07/26/17 09:14 PM Unknown
190	I2072617A	480-121588-e-3-b	07/26/17 09:17 PM Unknown
191	I2072617A	480-121588-e-4-b	07/26/17 09:20 PM Unknown
192	I2072617A	480-121588-e-5-d	07/26/17 09:24 PM Unknown
193	I2072617A	480-121588-e-5-dPDS	07/26/17 09:27 PM Unknown
194	I2072617A	480-121588-e-5-dSD@5	07/26/17 09:30 PM Unknown
195	I2072617A	CCV-4147885	07/26/17 09:34 PM QC
196	I2072617A	CCB-4130963	07/26/17 09:37 PM QC
197	I2072617A	CCVL-4147888	07/26/17 09:41 PM QC
198	I2072617A	480-121588-e-5-e ms	07/26/17 09:44 PM Unknown

199	I2072617A	480-121588-e-5-f msd	07/26/17 09:47 PM Unknown
200	I2072617A	480-121588-e-6-b	07/26/17 09:51 PM Unknown
201	I2072617A	480-121588-e-7-b	07/26/17 09:54 PM Unknown
202	I2072617A	480-121588-e-8-b	07/26/17 09:57 PM Unknown
203	I2072617A	480-121599-c-3-b	07/26/17 10:01 PM Unknown
204	I2072617A	480-121622-b-1-a	07/26/17 10:04 PM Unknown
205	I2072617A	480-121622-b-2-a	07/26/17 10:08 PM Unknown
206	I2072617A	480-121622-b-3-a	07/26/17 10:11 PM Unknown
207	I2072617A	CCV-4147885	07/26/17 10:15 PM QC
208	I2072617A	CCB-4130963	07/26/17 10:18 PM QC
209	I2072617A	CCVL-4147888	07/26/17 10:21 PM QC
210	I2072617A	480-121622-b-4-a	07/26/17 10:25 PM Unknown
211	I2072617A	480-121624-a-1-a	07/26/17 10:28 PM Unknown
212	I2072617A	480-121634-d-1-a	07/26/17 10:32 PM Unknown
213	I2072617A	480-121613-d-1-a	07/26/17 10:35 PM Unknown
214	I2072617A	480-121613-d-2-a	07/26/17 10:38 PM Unknown
215	I2072617A	480-121613-d-3-a	07/26/17 10:42 PM Unknown
216	I2072617A	480-121613-d-3-a@5	07/26/17 10:46 PM Unknown
217	I2072617A	480-121470-o-1-b	07/26/17 10:49 PM Unknown
218	I2072617A	BLANK	07/26/17 10:52 PM Unknown
219	I2072617A	CCV-4147885	07/26/17 10:56 PM QC
220	I2072617A	CCB-4130963	07/26/17 10:59 PM QC
221	I2072617A	CCVL-4147888	07/26/17 11:03 PM QC
222	I2072617A	icsa-4090634	07/26/17 11:06 PM QC
223	I2072617A	icsab-4093406	07/26/17 11:10 PM QC
224	I2072617A	CCV-4147885	07/26/17 11:13 PM QC
225	I2072617A	CCB-4130963	07/26/17 11:16 PM QC

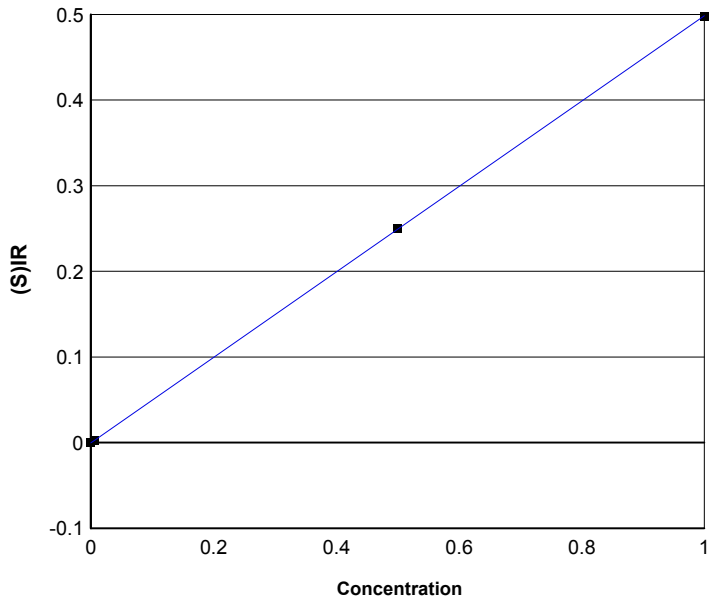
I272617A

Author: JRK

Published: 7/27/2017 7:03:11AM

Instrument Name: iCAP2 Serial Number: 20094602

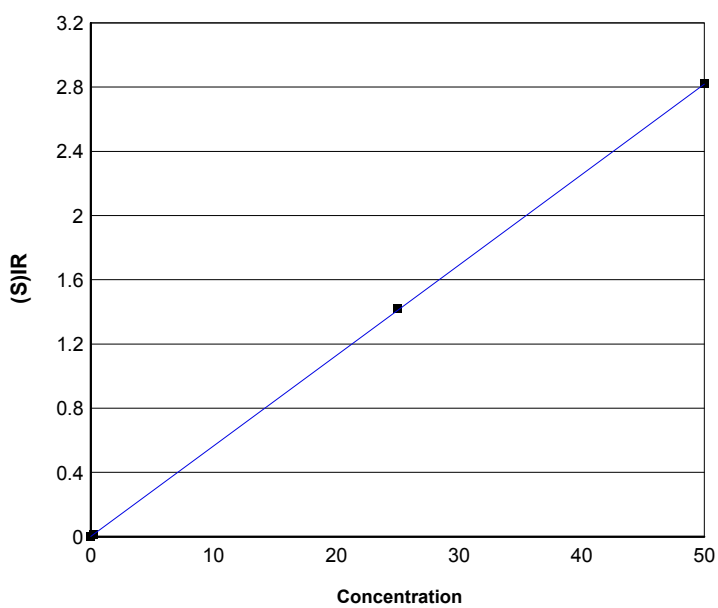
Method Name: ICAP2 June 2017 (60)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00010323
A1 (Gain):	0.49875
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

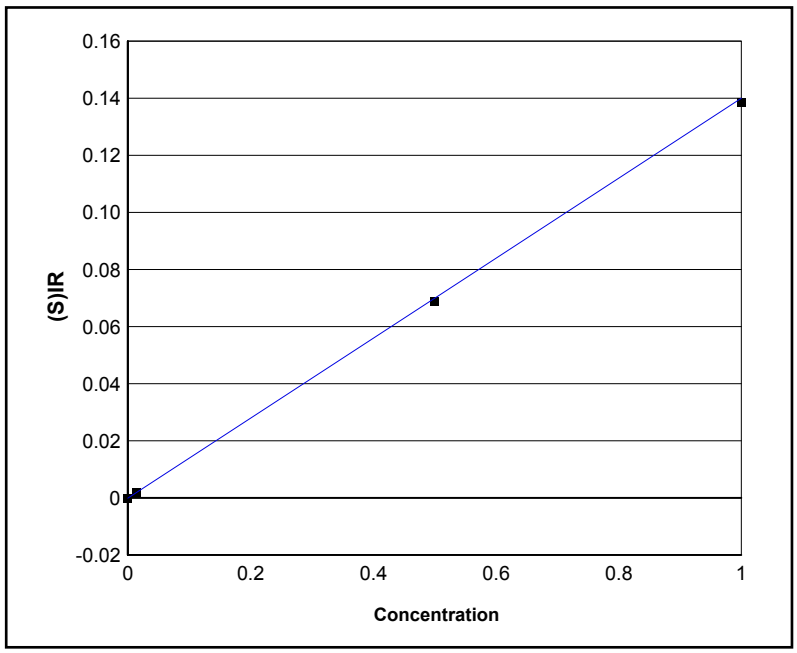
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000005658	0.0000005658	0.00000	-0.00010295	0.00025995	1
IC-4130962	0.0060000	0.0054152	-0.00058477	-9.7461	0.0025977	0.00022722	1
IC-4121446	0.50000	0.50257	0.0025719	0.51439	0.25057	0.00042386	1
IC-4121445	1.0000	0.99801	-0.0019872	-0.19872	0.49769	0.0013501	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0016843
A1 (Gain):	0.056323
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

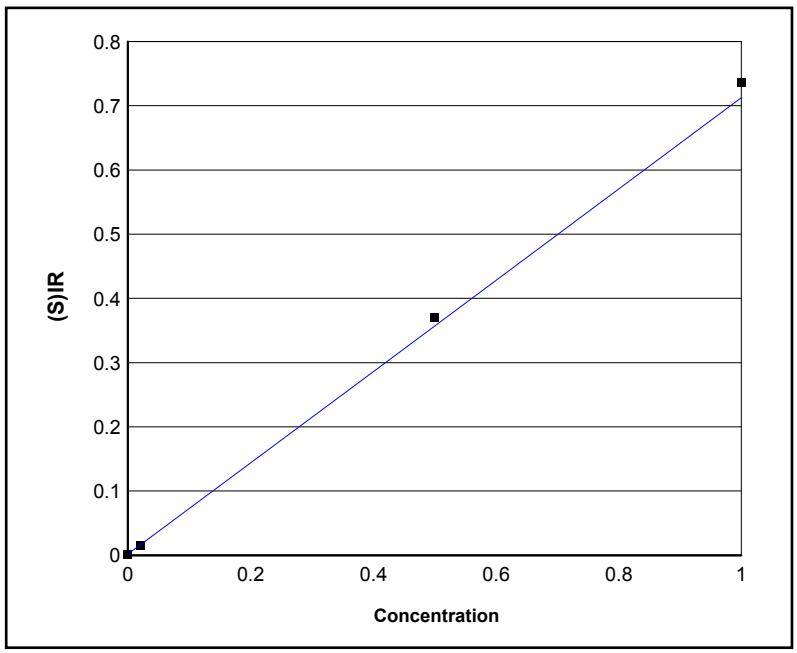
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000015988	-0.000015988	0.00000	0.0016834	0.00013602	1
IC-4130962	0.20000	0.21581	0.015810	7.9050	0.013901	0.00072515	1
IC-4121446	25.000	25.060	0.060407	0.24163	1.4194	0.0018042	1
IC-4121445	50.000	49.924	-0.076234	-0.15247	2.8259	0.0042519	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000096539
A1 (Gain):	0.14014
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

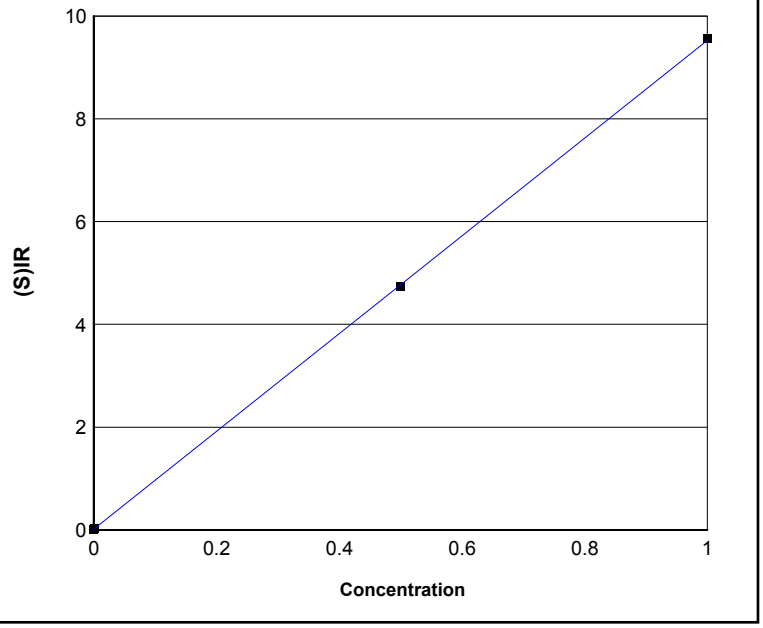
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002096	0.0000002096	0.00000	-0.000096510	0.00049043	1
IC-4130962	0.015000	0.014828	-0.00017223	-1.1482	0.0019741	0.000078109	1
IC-4121446	0.50000	0.49734	-0.0026638	-0.53275	0.068689	0.00021497	1
IC-4121445	1.0000	1.0028	0.0028377	0.28377	0.13862	0.00026645	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0017680
A1 (Gain):	0.71062
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

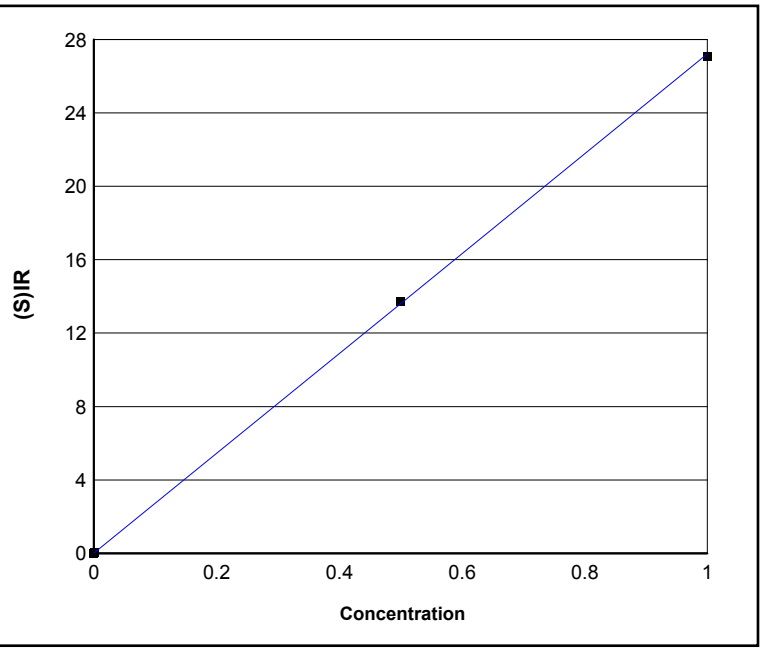
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001253	0.0000001253	0.00000	0.0017681	0.00025647	1
IC-4130962	0.020000	0.019846	-0.00015369	-0.76845	0.016117	0.000050260	1
IC-4121446	0.50000	0.50127	0.0012661	0.25322	0.37026	0.00043714	1
IC-4121445	1.0000	0.99889	-0.0011150	-0.11150	0.73616	0.0010812	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.016685
A1 (Gain):	9.5117
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

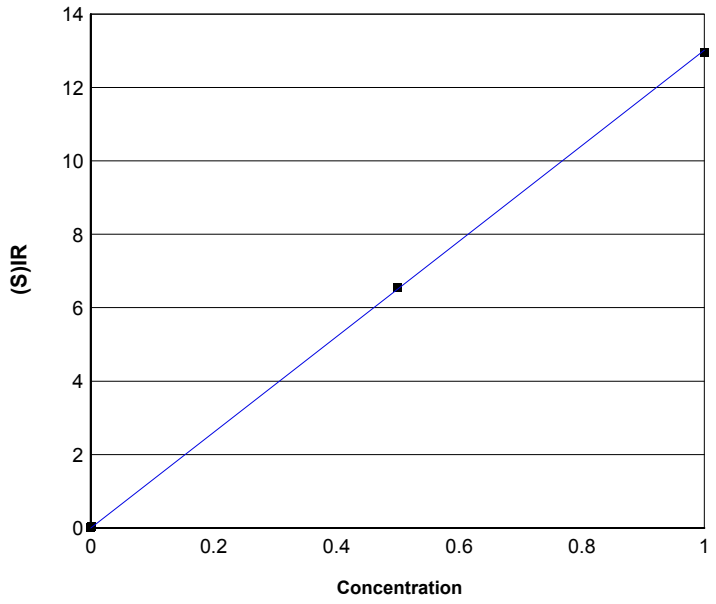
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003013	0.0000003013	0.00000	0.016688	0.00064846	1
IC-4130962	0.0020000	0.0017042	-0.00029580	-14.790	0.032894	0.0027879	1
IC-4121446	0.50000	0.49697	-0.0030270	-0.60540	4.7437	0.030357	1
IC-4121445	1.0000	1.0033	0.0033228	0.33228	9.5600	0.0076132	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0071975
A1 (Gain):	27.205
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

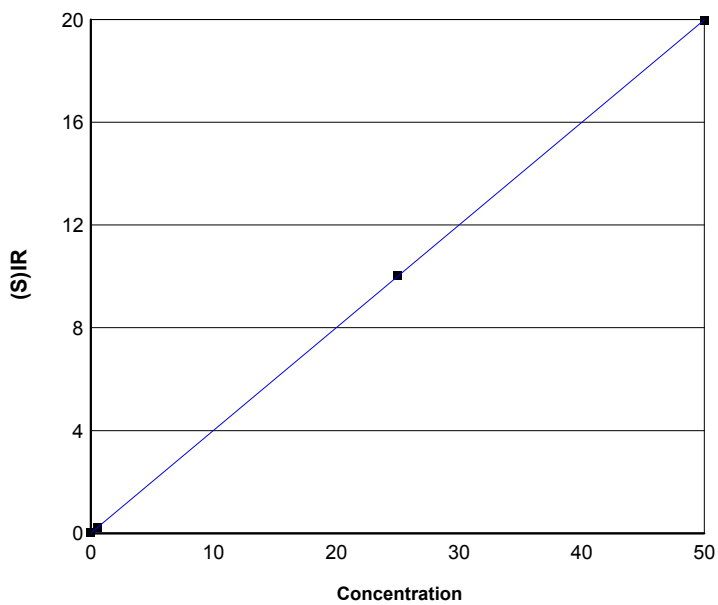
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001016	-0.0000001016	0.00000	0.0071947	0.000011943	1
IC-4130962	0.0020000	0.0020919	0.000091869	4.5934	0.064107	0.0012837	1
IC-4121446	0.50000	0.50494	0.0049361	0.98723	13.744	0.056366	1
IC-4121445	1.0000	0.99497	-0.0050280	-0.50280	27.076	0.096781	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00035347
A1 (Gain):	13.015
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

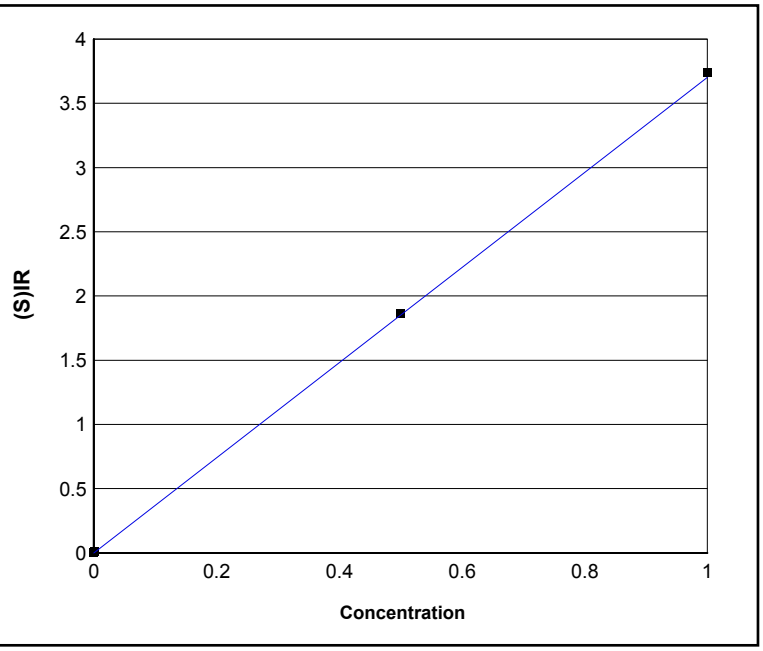
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000991	-0.0000000991	0.00000	0.00035218	0.0000052820	1
IC-4130962	0.0020000	0.0020913	0.000091334	4.5667	0.027530	0.00058455	1
IC-4121446	0.50000	0.50399	0.0039935	0.79871	6.5555	0.019042	1
IC-4121445	1.0000	0.99592	-0.0040848	-0.40848	12.954	0.0019473	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.012041
A1 (Gain):	0.39957
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

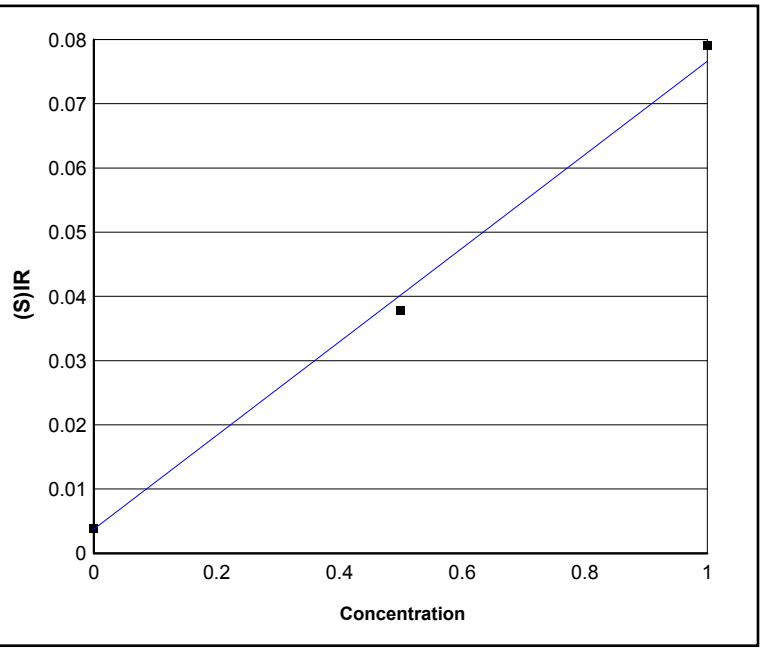
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000024542	-0.0000024542	0.00000	0.012040	0.00052794	1
IC-4130962	0.50000	0.50182	0.0018171	0.36342	0.21255	0.000030502	1
IC-4121446	25.000	25.066	0.065528	0.26211	10.027	0.044991	1
IC-4121445	50.000	49.933	-0.067345	-0.13469	19.964	0.014363	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00032925
A1 (Gain):	3.7023
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

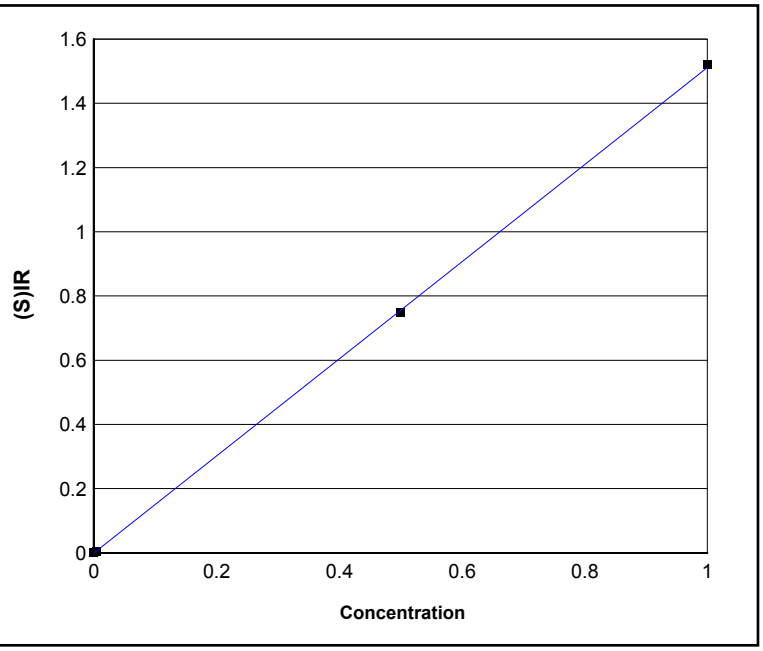
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000938	-0.0000000938	0.00000	0.00032890	0.00074173	1
IC-4130962	0.0020000	0.0020949	0.000094909	4.7454	0.0085848	0.000019785	1
IC-4121446	0.50000	0.49955	-0.00045231	-0.090461	1.8664	0.0027753	1
IC-4121445	1.0000	1.0004	0.00035189	0.035189	3.7370	0.00067303	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.9989
A0 (Offset):	0.003782
A1 (Gain):	0.07284
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

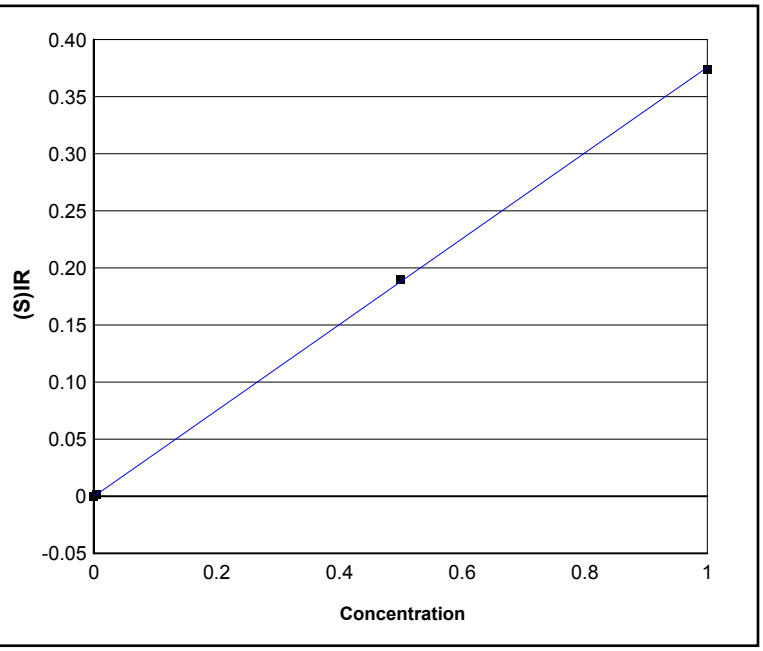
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000	0.00001690	0.00001690	0.0000	0.003783	0.001753	1
IC-4121446	0.5000	0.4662	-0.03381	-6.762	0.03774	0.002213	1
IC-4121445	1.000	1.034	0.03381	3.381	0.07909	0.002569	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.000037511
A1 (Gain):	1.5115
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

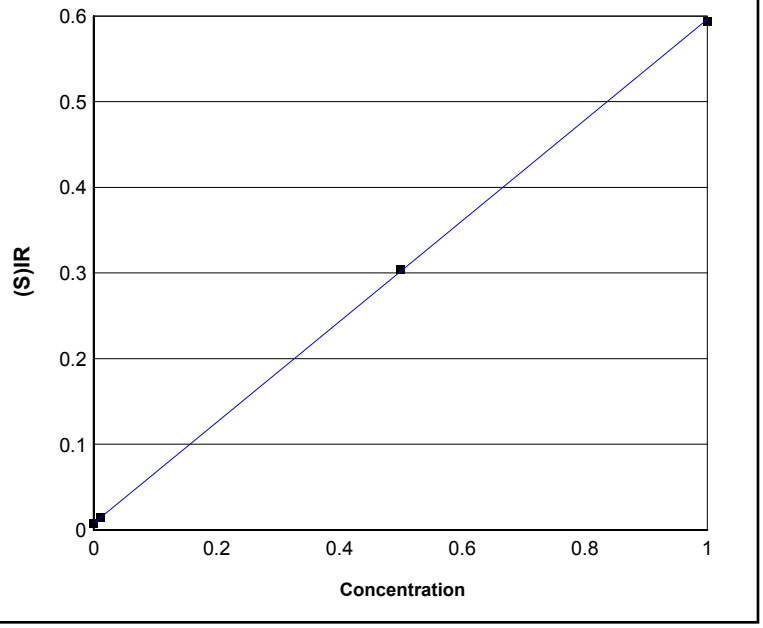
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002358	0.0000002358	0.00000	0.000037868	0.00015318	1
IC-4130962	0.0040000	0.0037820	-0.00021798	-5.4494	0.0057518	0.000072790	1
IC-4121446	0.50000	0.49532	-0.0046785	-0.93570	0.74938	0.00016862	1
IC-4121445	1.0000	1.0049	0.0048962	0.48962	1.5203	0.0015678	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.000084470
A1 (Gain):	0.37588
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

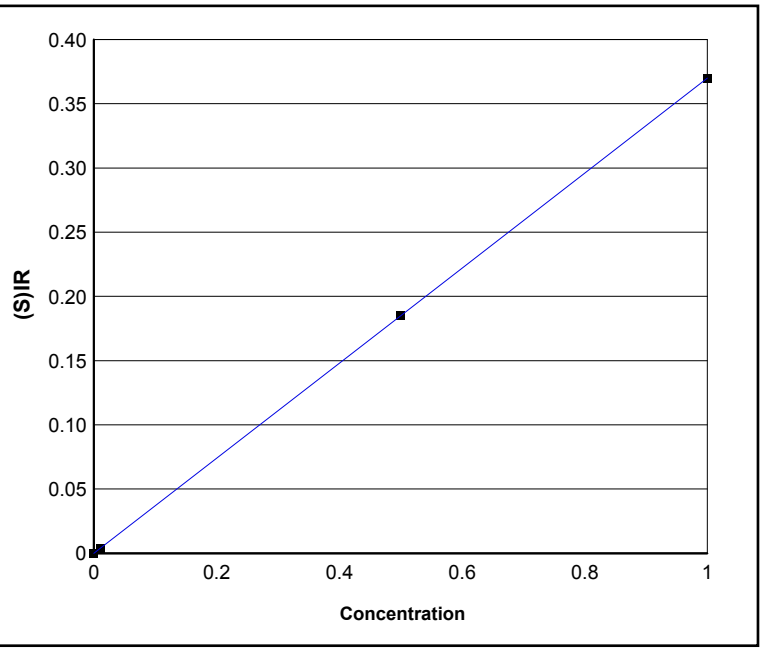
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000008174	-0.0000008174	0.00000	-0.000084777	0.000017857	1
IC-4130962	0.0040000	0.0048031	0.00080314	20.079	0.0017209	0.00015966	1
IC-4121446	0.50000	0.50437	0.0043678	0.87356	0.18945	0.00032023	1
IC-4121445	1.0000	0.99483	-0.0051711	-0.51711	0.37375	0.0025378	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0079926
A1 (Gain):	0.58832
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

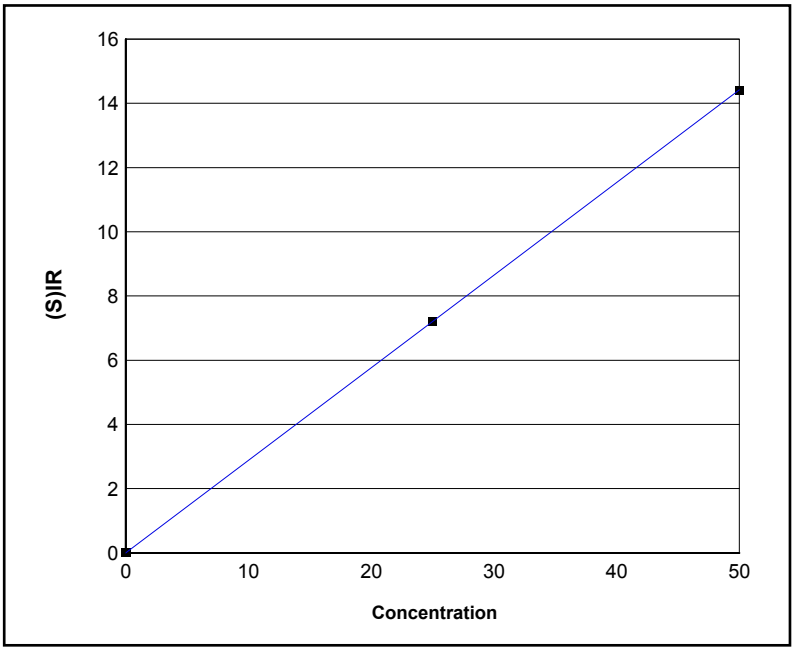
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000005299	-0.0000005299	0.00000	0.0079923	0.0000003193	1
IC-4130962	0.010000	0.010503	0.00050284	5.0284	0.014172	0.00028702	1
IC-4121446	0.50000	0.50321	0.0032089	0.64178	0.30404	0.0010420	1
IC-4121445	1.0000	0.99629	-0.0037118	-0.37118	0.59412	0.0014851	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.000054490
A1 (Gain):	0.36981
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

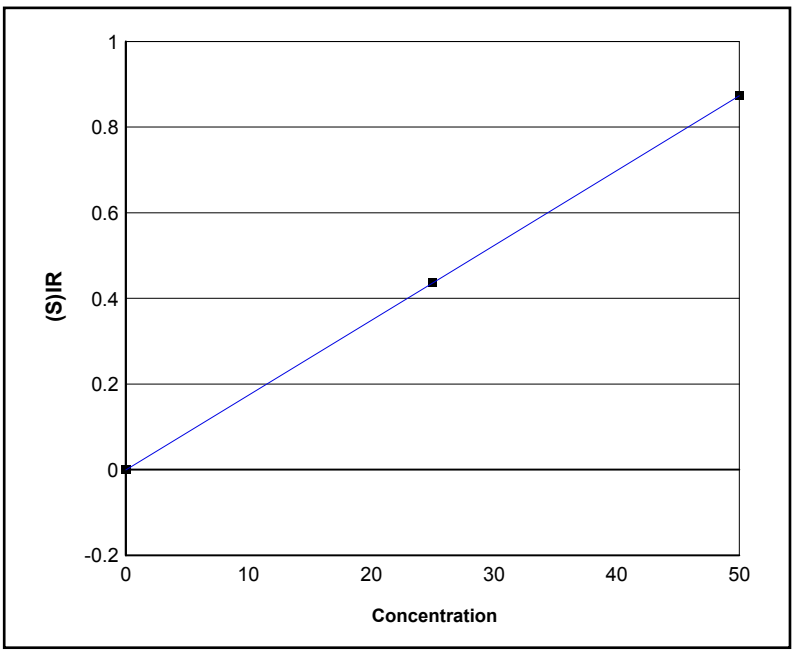
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000009526	-0.0000009526	0.00000	0.000054137	0.000026870	1
IC-4130962	0.010000	0.010961	0.00096141	9.6141	0.0041128	0.00022850	1
IC-4121446	0.50000	0.50008	0.000075867	0.015173	0.18517	0.00066458	1
IC-4121445	1.0000	0.99896	-0.0010375	-0.10375	0.36985	0.00053799	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00089356
A1 (Gain):	0.28839
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

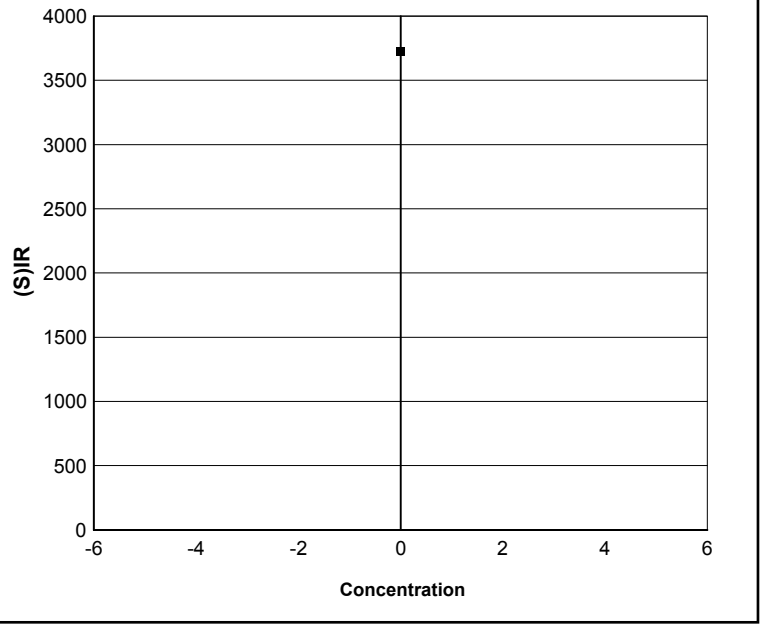
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000023437	-0.0000023437	0.00000	0.00089289	0.00076784	1
IC-4130962	0.050000	0.052332	0.0023318	4.6636	0.015985	0.00045055	1
IC-4121446	25.000	25.014	0.014286	0.057142	7.2147	0.044380	1
IC-4121445	50.000	49.983	-0.016617	-0.033235	14.416	0.0089667	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00051736
A1 (Gain):	0.017476
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

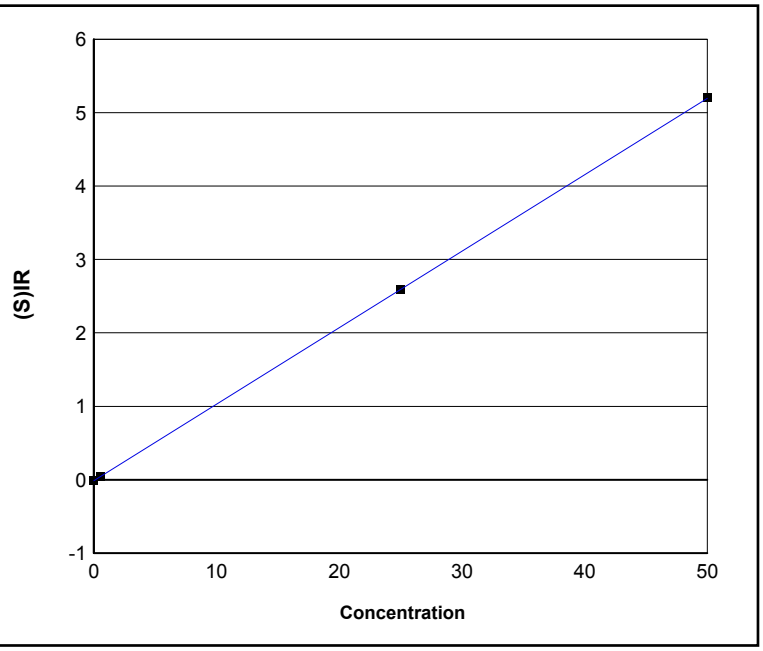
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.000016350	0.000016350	0.00000	-0.00051708	0.00028504	1
IC-4130962	0.050000	0.033581	-0.016419	-32.838	0.000069511	0.00040566	1
IC-4121446	25.000	25.052	0.052338	0.20935	0.43730	0.0062887	1
IC-4121445	50.000	49.964	-0.035920	-0.071839	0.87267	0.0033022	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:20:20AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

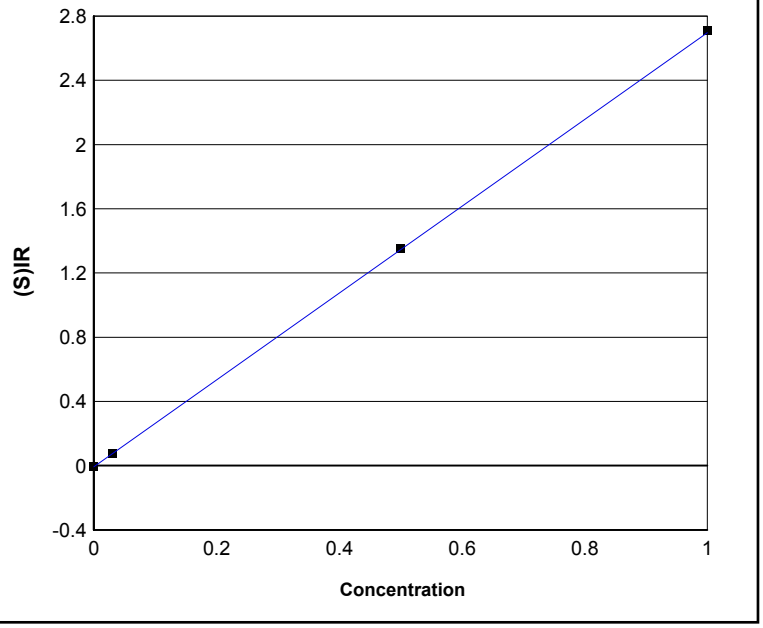
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	3,729	9.004	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.012694
A1 (Gain):	0.10417
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

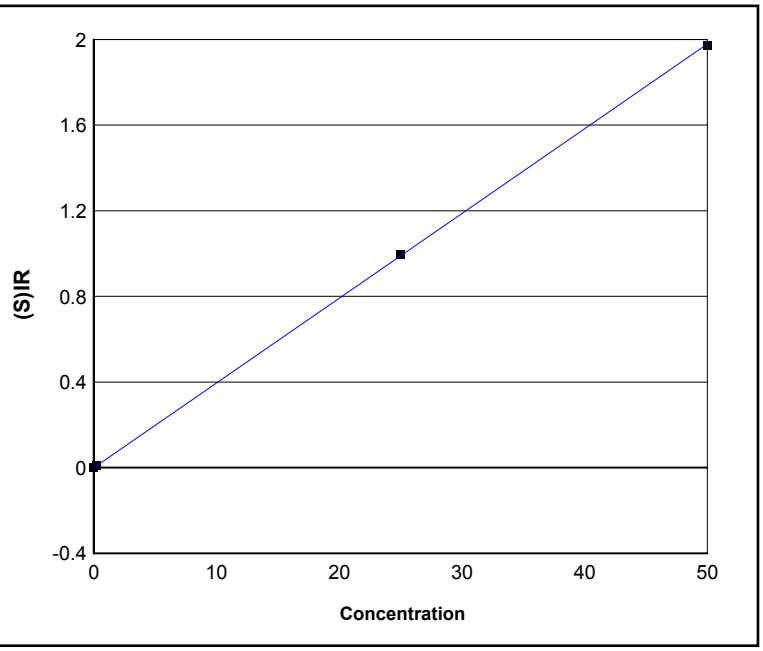
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000064334	-0.0000064334	0.00000	-0.012695	0.0018345	1
IC-4130962	0.50000	0.50712	0.0071193	1.4239	0.040135	0.0027496	1
IC-4121446	25.000	24.939	-0.061474	-0.24590	2.5853	0.015724	1
IC-4121445	50.000	50.054	0.054355	0.10871	5.2017	0.012347	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0060509
A1 (Gain):	2.7032
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

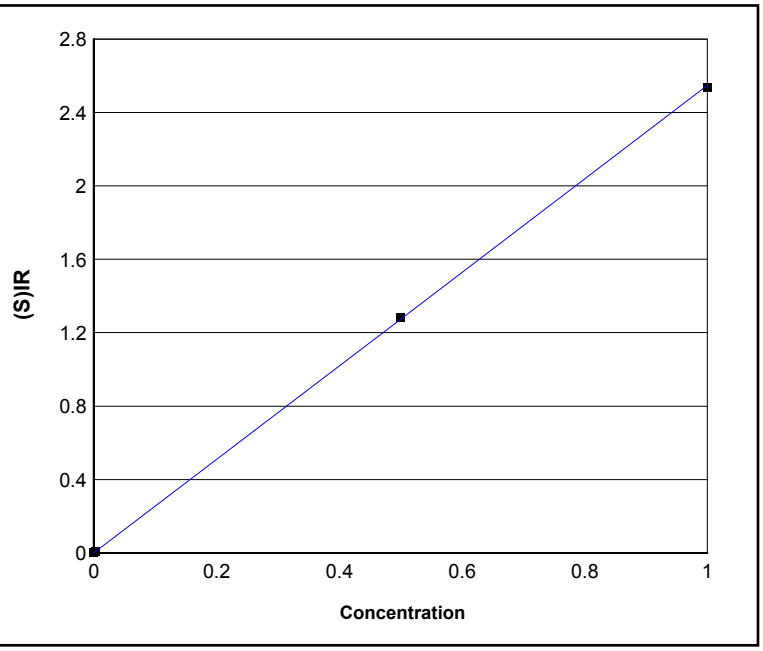
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001936	0.0000001936	0.00000	-0.0060504	0.0071706	1
IC-4130962	0.030000	0.029773	-0.00022683	-0.75610	0.074568	0.0019075	1
IC-4121446	0.50000	0.50088	0.00088281	0.17656	1.3547	0.0022025	1
IC-4121445	1.0000	0.99934	-0.00065674	-0.065674	2.7089	0.0057251	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00013111
A1 (Gain):	0.039571
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

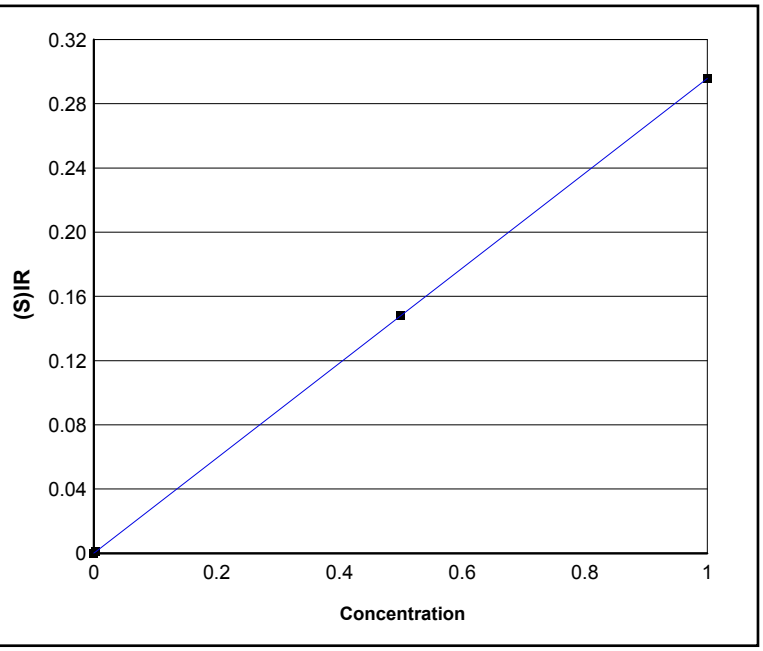
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000093898	-0.0000093898	0.00000	-0.00013149	0.00010812	1
IC-4130962	0.20000	0.20898	0.0089783	4.4892	0.0081381	0.000092330	1
IC-4121446	25.000	25.112	0.11184	0.44736	0.99353	0.0059442	1
IC-4121445	50.000	49.879	-0.12082	-0.24164	1.9736	0.0045216	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00085361
A1 (Gain):	2.5461
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

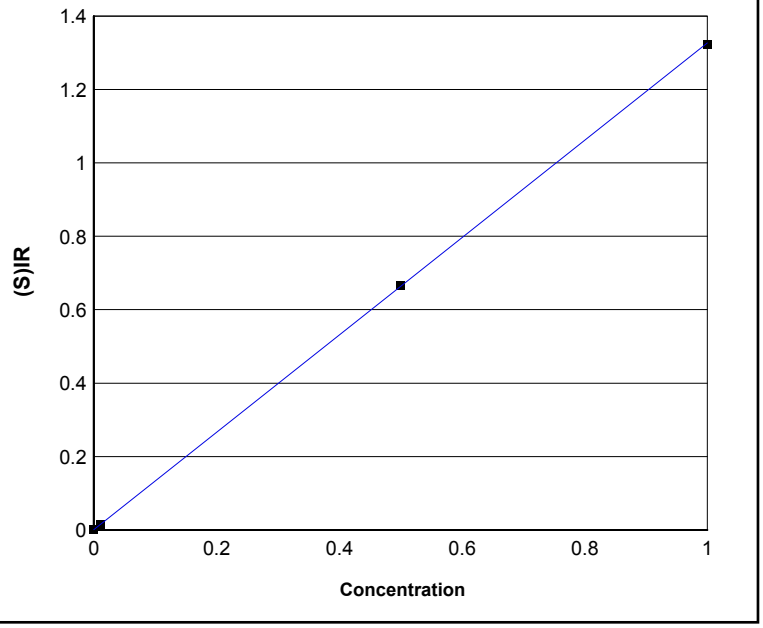
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001445	-0.0000001445	0.00000	0.00085324	0.000022232	1
IC-4130962	0.0030000	0.0031332	0.00013315	4.4383	0.0088339	0.000032756	1
IC-4121446	0.50000	0.50391	0.0039144	0.78288	1.2850	0.0052484	1
IC-4121445	1.0000	0.99595	-0.0040475	-0.40475	2.5389	0.0056761	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00016789
A1 (Gain):	0.29553
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

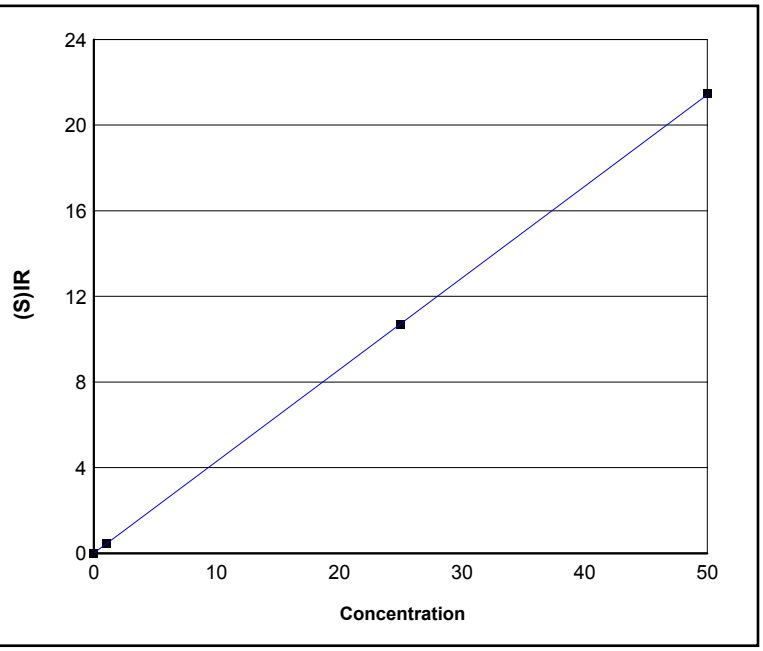
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001617	-0.0000001617	0.00000	0.00016784	0.000024218	1
IC-4130962	0.0030000	0.0031600	0.00016003	5.3343	0.0011021	0.00011011	1
IC-4121446	0.50000	0.50070	0.00070210	0.14042	0.14827	0.00068297	1
IC-4121445	1.0000	0.99914	-0.00086205	-0.086205	0.29570	0.0019691	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00046042
A1 (Gain):	1.3263
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

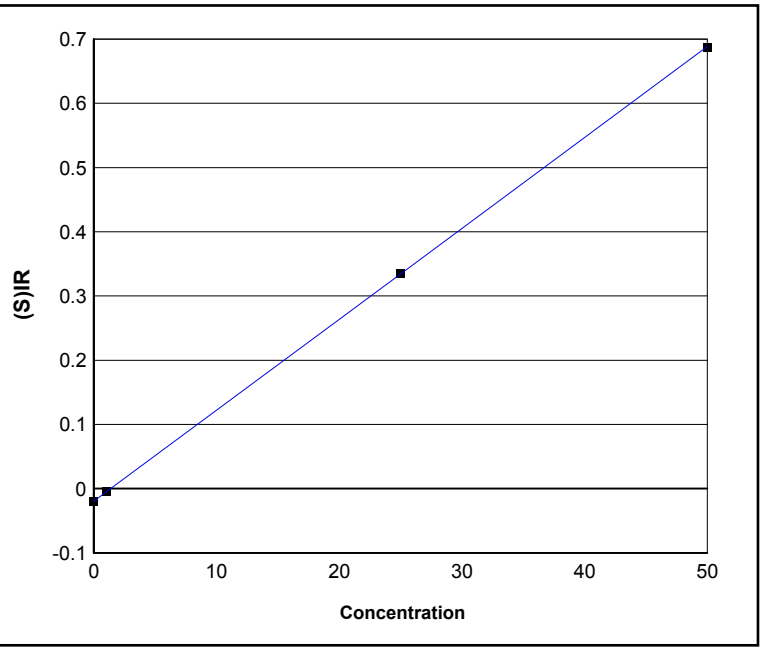
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001746	-0.0000001746	0.00000	0.00046019	0.00012656	1
IC-4130962	0.010000	0.010152	0.00015198	1.5198	0.013925	0.00020702	1
IC-4121446	0.50000	0.50242	0.0024175	0.48351	0.66681	0.000067690	1
IC-4121445	1.0000	0.99743	-0.0025695	-0.25695	1.3233	0.00015787	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0062164
A1 (Gain):	0.42843
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

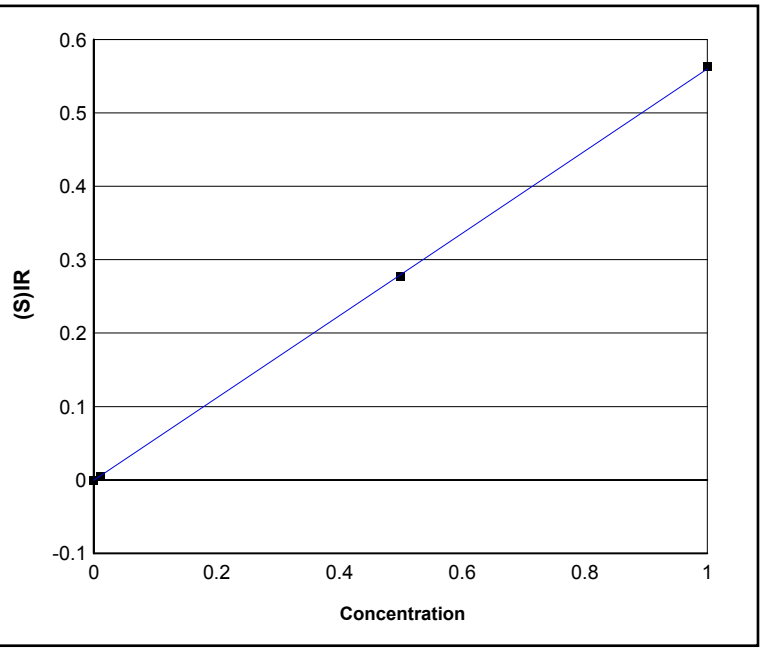
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000087417	0.0000087417	0.00000	0.0062202	0.0014888	1
IC-4130962	1.0000	0.99307	-0.0069269	-0.69269	0.43168	0.0010891	1
IC-4121446	25.000	24.902	-0.097671	-0.39068	10.675	0.065384	1
IC-4121445	50.000	50.105	0.10460	0.20919	21.473	0.012773	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.019553
A1 (Gain):	0.014165
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

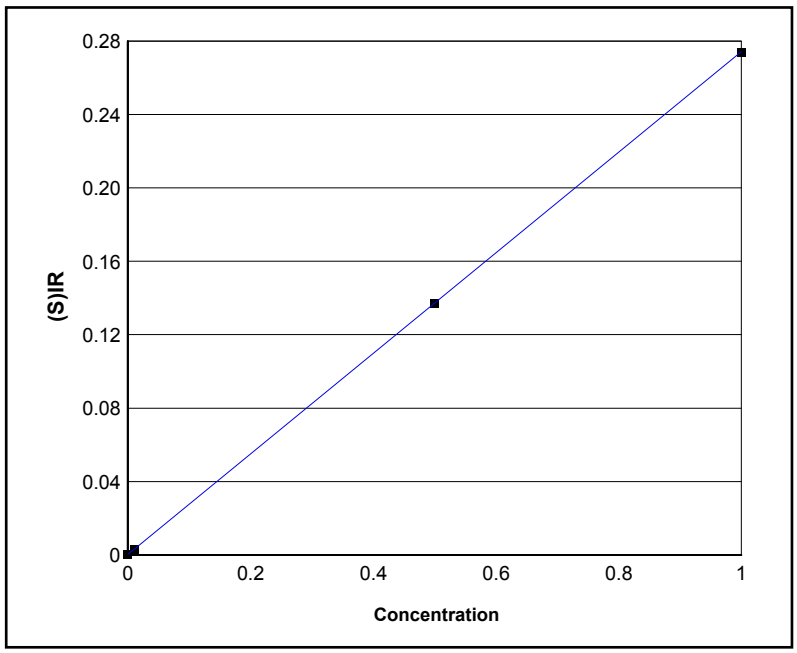
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000074052	-0.000074052	0.00000	-0.019554	0.00022175	1
IC-4130962	1.0000	1.0744	0.074369	7.4369	-0.0043349	0.0048272	1
IC-4121446	25.000	25.059	0.058519	0.23408	0.33540	0.0022421	1
IC-4121445	50.000	49.867	-0.13289	-0.26578	0.68681	0.00010222	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00058764
A1 (Gain):	0.56044
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

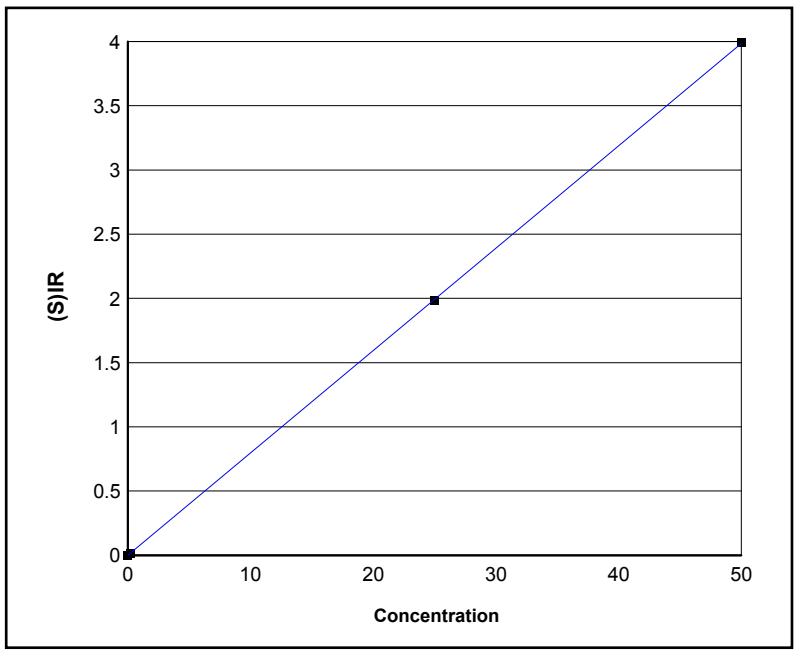
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002601	0.0000002601	0.00000	-0.00058749	0.000010307	1
IC-4130962	0.010000	0.0097825	-0.00021747	-2.1747	0.0048955	0.000038455	1
IC-4121446	0.50000	0.49552	-0.0044820	-0.89639	0.27742	0.00026362	1
IC-4121445	1.0000	1.0047	0.0046992	0.46992	0.56308	0.00026533	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00026391
A1 (Gain):	0.27405
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

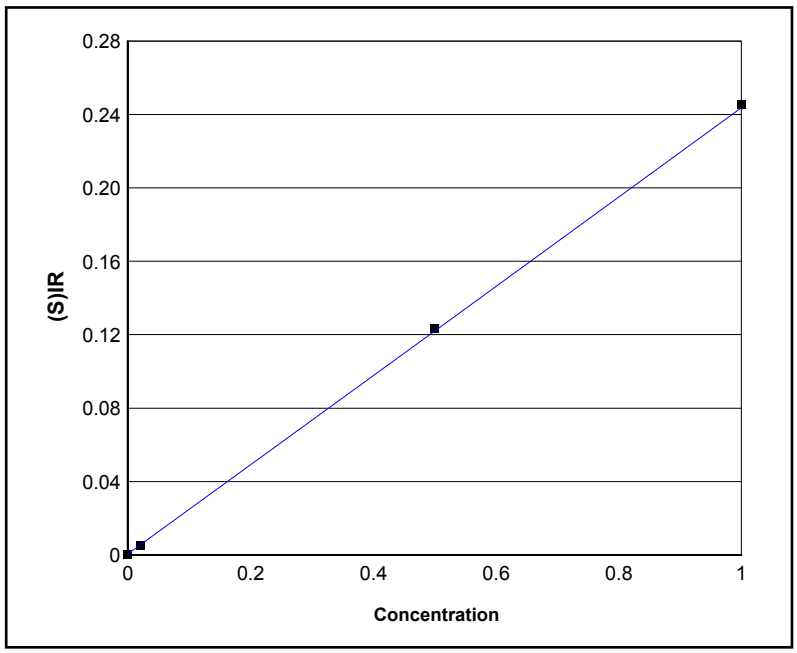
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003264	-0.0000003264	0.00000	0.00026382	0.00013697	1
IC-4130962	0.010000	0.010338	0.00033773	3.3773	0.0030911	0.00017984	1
IC-4121446	0.50000	0.49921	-0.00079061	-0.15812	0.13679	0.00014399	1
IC-4121445	1.0000	1.0005	0.00045289	0.045289	0.27387	0.00045786	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00013448
A1 (Gain):	0.079701
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

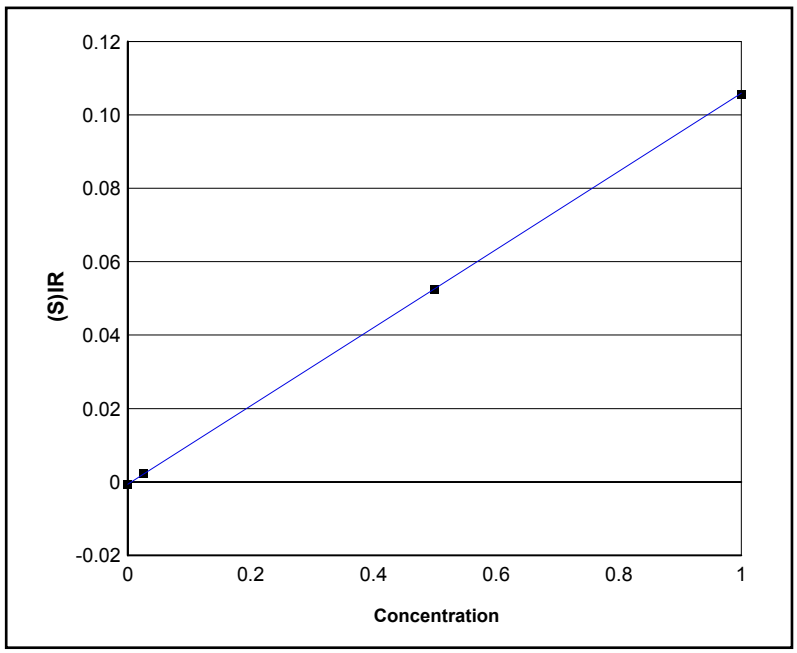
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000070605	0.0000070605	0.00000	0.00013505	0.0000037830	1
IC-4130962	0.20000	0.19333	-0.0066701	-3.3350	0.015543	0.00027462	1
IC-4121446	25.000	24.896	-0.10428	-0.41711	1.9844	0.0027207	1
IC-4121445	50.000	50.111	0.11095	0.22190	3.9940	0.0026131	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00042870
A1 (Gain):	0.24324
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

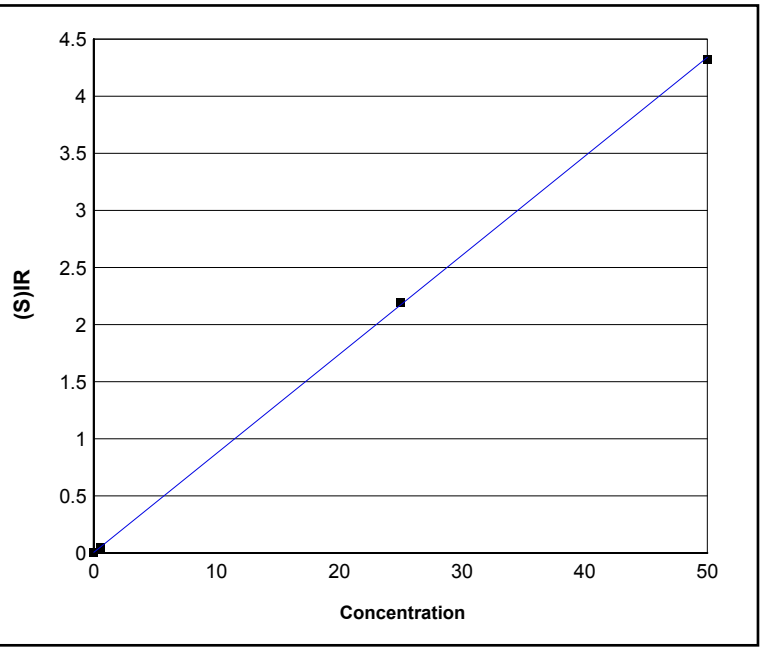
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001926	-0.0000001926	0.00000	0.00042865	0.00027983	1
IC-4130962	0.020000	0.020198	0.00019792	0.98958	0.0053528	0.0000046826	1
IC-4121446	0.50000	0.49993	-0.000071405	-0.014281	0.12306	0.00038816	1
IC-4121445	1.0000	0.99987	-0.00012531	-0.012531	0.24569	0.00037303	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.00063080
A1 (Gain):	0.10654
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

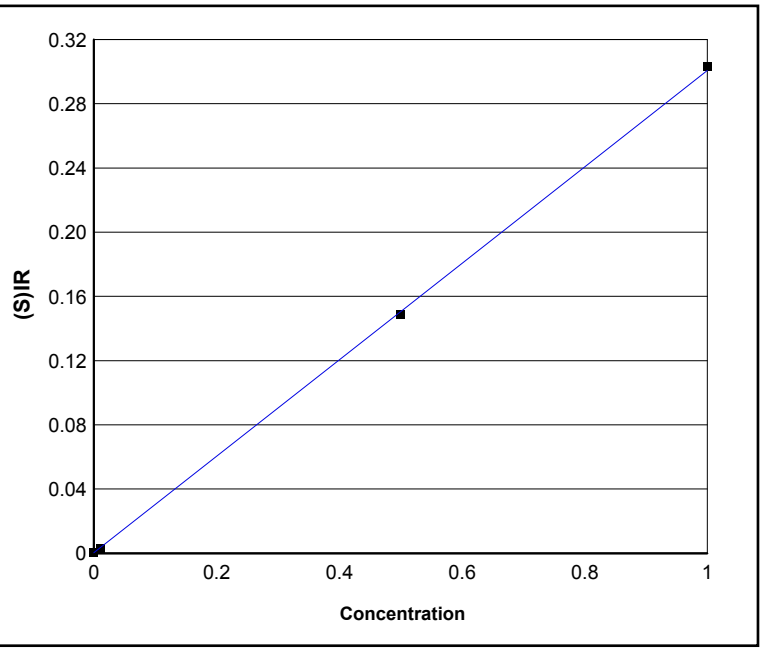
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000020306	-0.0000020306	0.00000	-0.00063102	0.00030070	1
IC-4130962	0.025000	0.027136	0.0021357	8.5428	0.0022593	0.000022157	1
IC-4121446	0.50000	0.49793	-0.0020669	-0.41338	0.052321	0.00018349	1
IC-4121445	1.0000	0.99993	-0.000072007	-0.0072007	0.10571	0.00091460	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0041093
A1 (Gain):	0.086744
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

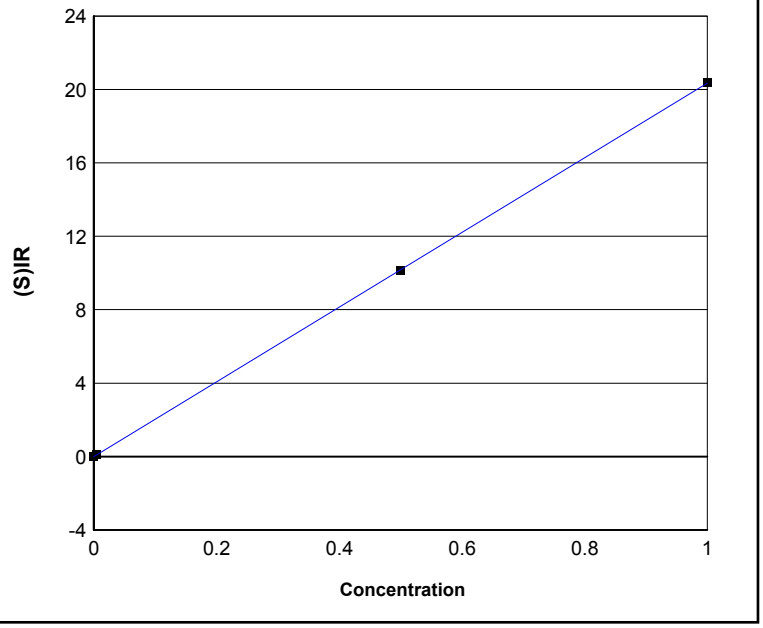
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000080451	-0.0000080451	0.00000	0.0041086	0.0015271	1
IC-4130962	0.50000	0.50588	0.0058807	1.1761	0.047991	0.0000083560	1
IC-4121446	25.000	25.222	0.22233	0.88930	2.1920	0.011092	1
IC-4121445	50.000	49.772	-0.22821	-0.45641	4.3215	0.011624	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.00044140
A1 (Gain):	0.30029
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

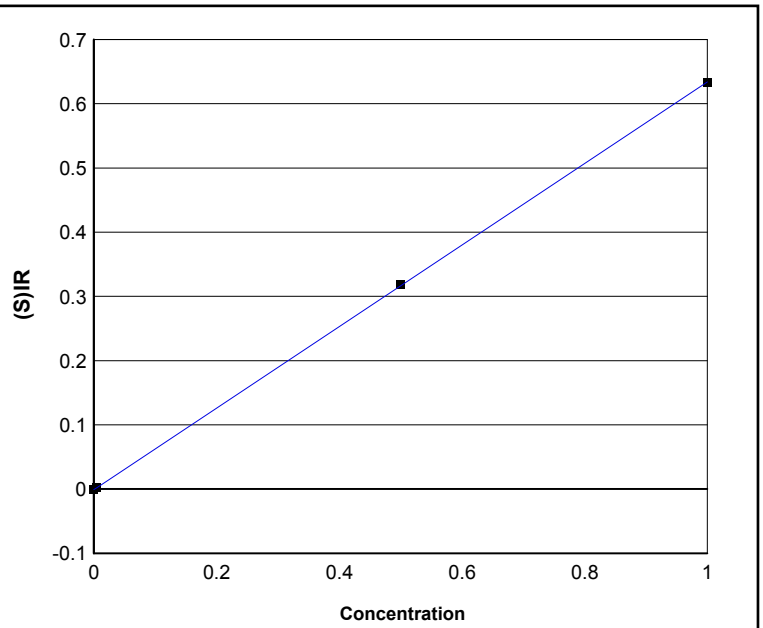
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000010010	0.0000010010	0.00000	0.00044170	0.00013772	1
IC-4130962	0.010000	0.0090530	-0.00094704	-9.4704	0.0031599	0.00014681	1
IC-4121446	0.50000	0.49366	-0.0063425	-1.2685	0.14868	0.00039202	1
IC-4121445	1.0000	1.0073	0.0072895	0.72895	0.30292	0.00096603	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0025384
A1 (Gain):	20.355
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

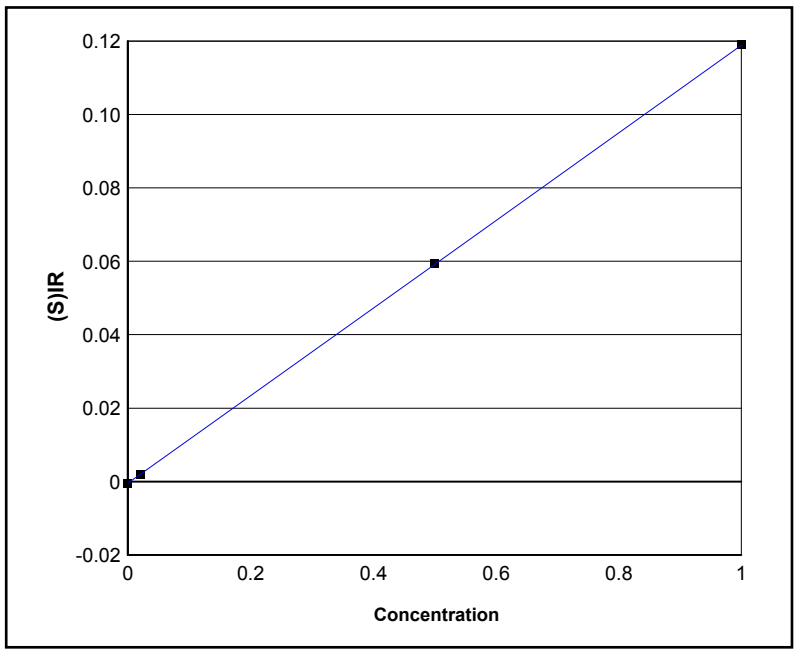
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001670	0.0000001670	0.00000	-0.0025350	0.0023578	1
IC-4130962	0.0050000	0.0048352	-0.00016483	-3.2966	0.095883	0.0026652	1
IC-4121446	0.50000	0.49941	-0.00059381	-0.11876	10.163	0.033383	1
IC-4121445	1.0000	1.0008	0.00075864	0.075864	20.368	0.015948	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00093379
A1 (Gain):	0.63498
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

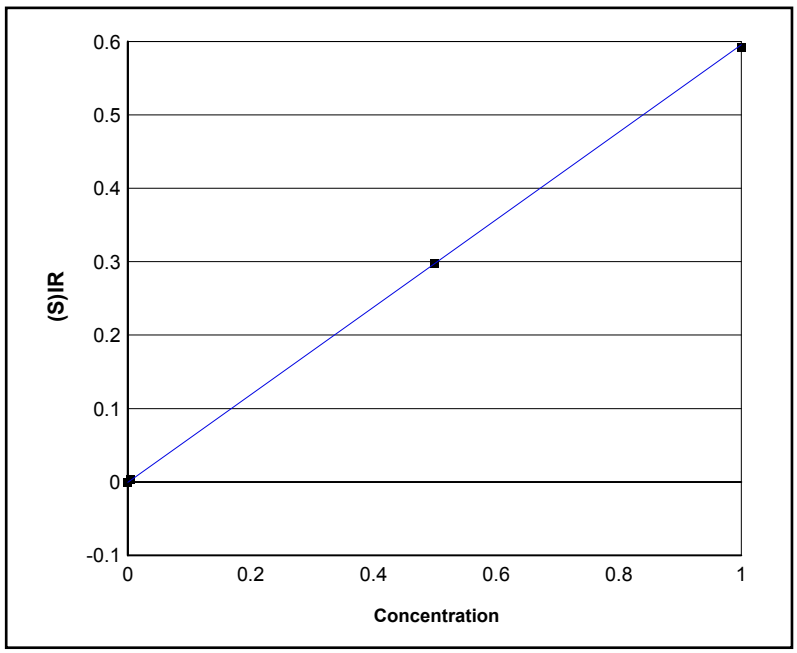
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000004324	-0.0000004324	0.00000	-0.00093407	0.00012894	1
IC-4130962	0.0050000	0.0054199	0.00041986	8.3972	0.0025156	0.00018452	1
IC-4121446	0.50000	0.50293	0.0029291	0.58582	0.31886	0.00067121	1
IC-4121445	1.0000	0.99665	-0.0033494	-0.33494	0.63280	0.0014117	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00046254
A1 (Gain):	0.11931
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

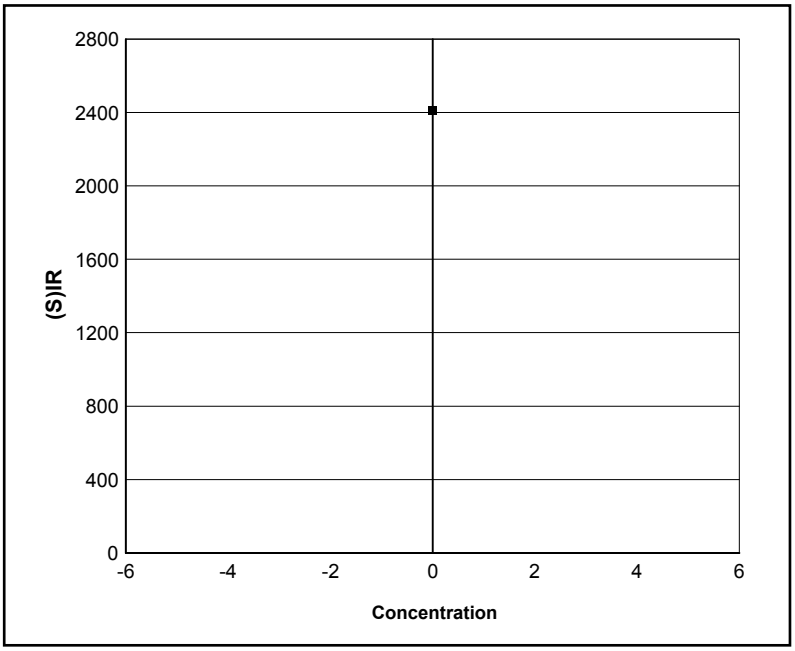
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003502	-0.0000003502	0.00000	-0.00046259	0.000062311	1
IC-4130962	0.020000	0.020354	0.00035404	1.7702	0.0019661	0.000077103	1
IC-4121446	0.50000	0.50016	0.00015940	0.031879	0.059306	0.00013827	1
IC-4121445	1.0000	0.99949	-0.00051291	-0.051291	0.11898	0.00049217	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00036739
A1 (Gain):	0.59610
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

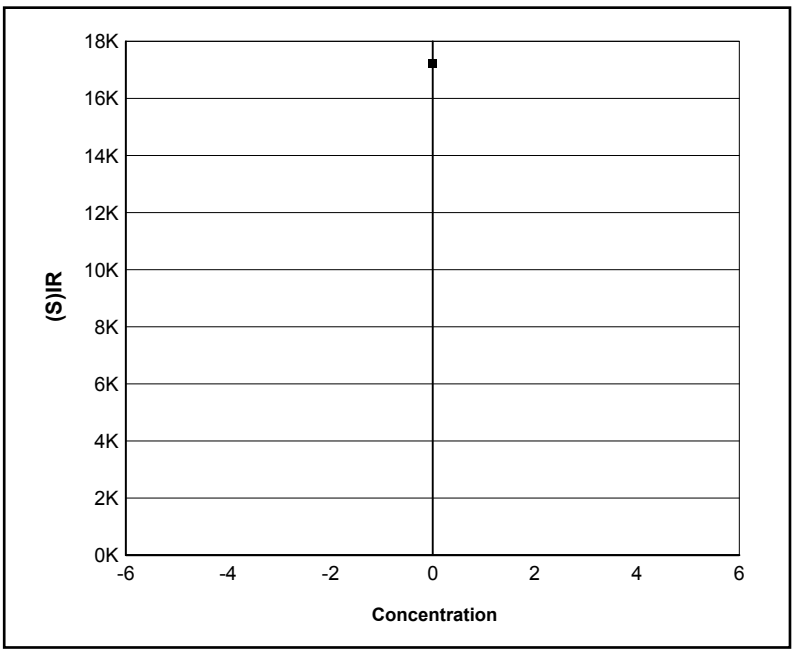
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000526	-0.0000000526	0.00000	-0.00036742	0.000098933	1
IC-4130962	0.0050000	0.0050375	0.000037473	0.74947	0.0026050	0.000066231	1
IC-4121446	0.50000	0.50306	0.0030550	0.61100	0.29826	0.00020731	1
IC-4121445	1.0000	0.99691	-0.0030923	-0.30923	0.59140	0.0041846	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:20:20AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

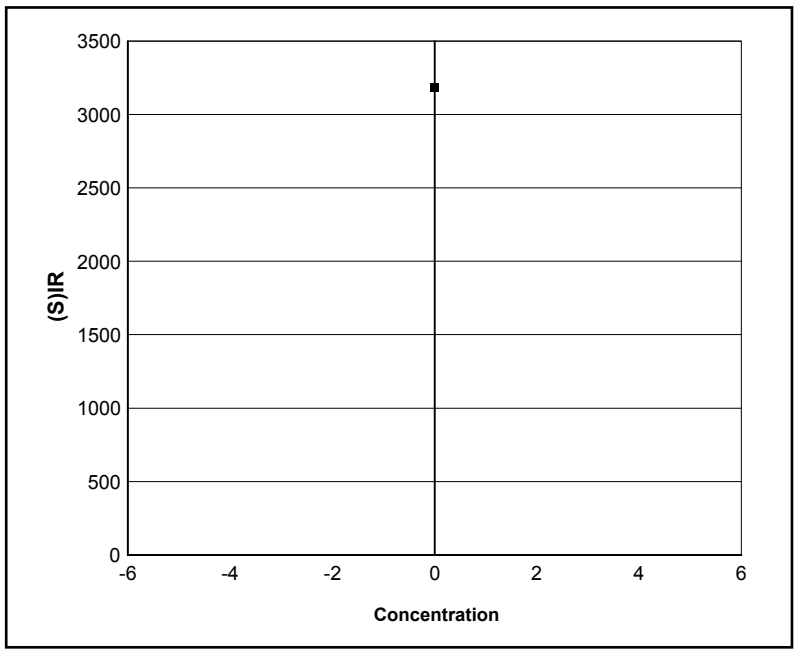
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	2,410	2.629	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:20:20AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

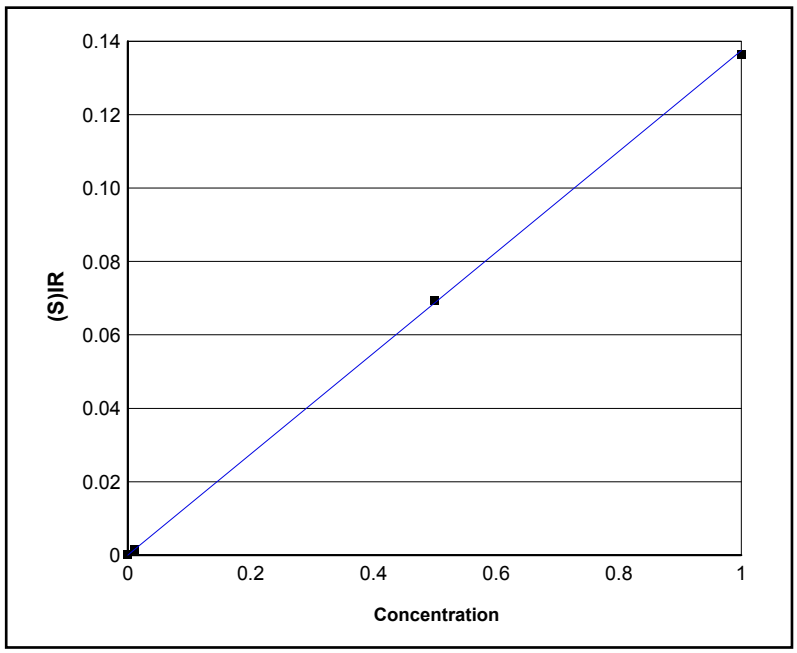
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	17,230	28.68	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:20:20AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	3,185	22.07	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	7/26/2017 10:30:15AM
Date of Fit:	7/26/2017 11:17:16AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.000013700
A1 (Gain):	0.13744
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000008896	-0.0000008896	0.00000	0.000013578	0.0000033506	1
IC-4130962	0.010000	0.010847	0.00084744	8.4744	0.0015035	0.000024573	1
IC-4121446	0.50000	0.50507	0.0050664	1.0133	0.069304	0.000088410	1
IC-4121445	1.0000	0.99409	-0.0059148	-0.59148	0.13639	0.00069544	1

Sample Name: ICIS-4130963 Acquired: 7/26/2017 10:16:55 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00010**	**.00168**	**-.00010**	**.00177**	**.01669**
Stddev	.00026	.00014	.00049	.00026	.00065
%RSD	252.51	8.0803	508.17	14.506	3.8859
#1	-.00029	.00178	.00025	.00159	.01623
#2	.00008	.00159	-.00044	.00195	.01715

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00719**	**.00035**	**.01204**	**.00033**	**.0038**
Stddev	.00001	.00001	.00053	.00074	.0018
%RSD	.16599	1.4998	4.3847	225.52	46.33
#1	.00719	.00036	.01167	-.00020	.0025
#2	.00720	.00035	.01241	.00085	.0050

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00004**	**-.00008**	**.00005**	**.00089**	**-.00052**
Stddev	.00015	.00002	.00003	.00077	.00029
%RSD	404.51	21.064	49.633	85.995	55.125
#1	-.00007	-.00007	.00007	.00144	-.00072
#2	.00015	-.00010	.00004	.00035	-.00032

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.01269**	**-.00605**	**-.00013**	**.00085**	**.00017**
Stddev	.00183	.00717	.00011	.00002	.00002
%RSD	14.451	118.52	82.228	2.6056	14.429
#1	-.01399	-.00098	-.00006	.00087	.00018
#2	-.01140	-.01112	-.00021	.00084	.00015

Sample Name: ICIS-4130963 Acquired: 7/26/2017 10:16:55 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00046**	**.00622**	**-.01955**	**-.00059**	**.00026**
Stddev	.00013	.00149	.00022	.00001	.00014
%RSD	27.501	23.935	1.1340	1.7545	51.918
#1	.00055	.00727	-.01971	-.00058	.00017
#2	.00037	.00517	-.01940	-.00059	.00036

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00014**	**.00043**	**-.00063**	**.00411**	**.00044**
Stddev	.00000	.00028	.00030	.00153	.00014
%RSD	2.8013	65.282	47.653	37.168	31.180
#1	.00014	.00063	-.00084	.00303	.00034
#2	.00013	.00023	-.00042	.00519	.00054

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00253**	**-.00093**	**-.00046**	**-.00037**	**.00001**
Stddev	.00236	.00013	.00006	.00010	.00000
%RSD	93.011	13.804	13.470	26.926	24.677
#1	-.00087	-.00084	-.00051	-.00044	.00001
#2	-.00420	-.00103	-.00042	-.00030	.00002

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3728.8**	**2410.1**	**17231.**	**3184.9**
Stddev	9.0	2.6	29.	22.1
%RSD	.24146	.10906	.16642	.69289
#1	3735.1	2412.0	17210.	3200.5
#2	3722.4	2408.3	17251.	3169.3

Sample Name: IC-4130962 Acquired: 7/26/2017 10:20:23 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00260**	**.01390**	**.00197**	**.01612**	**.03289**
Stddev	.00023	.00073	.00008	.00005	.00279
%RSD	8.7467	5.2164	3.9566	.31185	8.4754
#1	.00276	.01441	.00203	.01608	.03092
#2	.00244	.01339	.00192	.01615	.03487

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06411**	**.02753**	**.21255**	**.00858**	**.00575**
Stddev	.00128	.00058	.00003	.00002	.00007
%RSD	2.0024	2.1233	.01435	.23047	1.2655
#1	.06502	.02712	.21257	.00857	.00580
#2	.06320	.02794	.21253	.00860	.00570

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00172**	**.00411**	**.01599**	**.00007**	**.04013**
Stddev	.00016	.00023	.00045	.00041	.00275
%RSD	9.2777	5.5558	2.8185	583.58	6.8510
#1	.00161	.00427	.01630	-.00022	.04208
#2	.00183	.00395	.01567	.00036	.03819

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07457**	**.00814**	**.00883**	**.00110**	**.01392**
Stddev	.00191	.00009	.00003	.00011	.00021
%RSD	2.5581	1.1345	.37080	9.9907	1.4867
#1	.07592	.00807	.00881	.00102	.01407
#2	.07322	.00820	.00886	.00118	.01378

Sample Name: IC-4130962 Acquired: 7/26/2017 10:20:23 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.43168**	**-.00433**	**.00490**	**.00309**	**.01554**
Stddev	.00109	.00483	.00004	.00018	.00027
%RSD	.25230	111.36	.78552	5.8180	1.7669
#1	.43245	-.00092	.00492	.00322	.01535
#2	.43091	-.00775	.00487	.00296	.01574

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00535**	**.00226**	**.04799**	**.00316**	**.09588**
Stddev	.00000	.00002	.00001	.00015	.00267
%RSD	.08748	.98067	.01741	4.6460	2.7796
#1	.00536	.00228	.04799	.00306	.09400
#2	.00535	.00224	.04800	.00326	.09777

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00252**	**.00197**	**.00261**	**.00150**
Stddev	.00018	.00008	.00007	.00002
%RSD	7.3350	3.9216	2.5424	1.6344
#1	.00265	.00191	.00265	.00149
#2	.00239	.00202	.00256	.00152

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3733.2**	**2424.8**	**17294.**	**3224.0**
Stddev	2.4	.3	28.	4.4
%RSD	.06378	.01376	.15935	.13683
#1	3734.9	2425.0	17313.	3220.9
#2	3731.5	2424.5	17274.	3227.1

Sample Name: IC-4121446 Acquired: 7/26/2017 10:23:52 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.25057**	**1.4194**	**.06869**	**.37026**	**4.7437**
Stddev	.00042	.0018	.00021	.00044	.0304
%RSD	.16916	.12711	.31295	.11806	.63994
#1	.25027	1.4206	.06854	.36995	4.7652
#2	.25087	1.4181	.06884	.37057	4.7223

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**13.744**	**6.5555**	**10.027**	**1.8664**	**.0377**
Stddev	.056	.0190	.045	.0028	.0022
%RSD	.41011	.29047	.44868	.14870	5.864
#1	13.704	6.5690	10.059	1.8683	.0393
#2	13.784	6.5420	9.9956	1.8644	.0362

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.74938**	**.18945**	**.18517**	**7.2147**	**.43730**
Stddev	.00017	.00032	.00066	.0444	.00629
%RSD	.02250	.16903	.35890	.61513	1.4381
#1	.74950	.18922	.18470	7.2461	.44175
#2	.74926	.18968	.18564	7.1834	.43286

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.5853**	**1.3547**	**.99353**	**1.2850**	**.14827**
Stddev	.0157	.0022	.00594	.0053	.00068
%RSD	.60821	.16258	.59830	.40844	.46062
#1	2.5964	1.3563	.98932	1.2813	.14779
#2	2.5741	1.3531	.99773	1.2887	.14875

Sample Name: IC-4121446 Acquired: 7/26/2017 10:23:52 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.66681**	**10.675**	**.33540**	**.27742**	**.13679**
Stddev	.00007	.065	.00224	.00026	.00014
%RSD	.01015	.61248	.66847	.09502	.10526
#1	.66685	10.721	.33698	.27761	.13669
#2	.66676	10.629	.33381	.27723	.13689

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.9844**	**.12306**	**.05232**	**2.1920**	**.14868**
Stddev	.0027	.00039	.00018	.0111	.00039
%RSD	.13711	.31543	.35071	.50604	.26366
#1	1.9863	.12333	.05245	2.1998	.14840
#2	1.9824	.12278	.05219	2.1842	.14896

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.163**	**.31886**	**.05931**	**.29826**	**.06930**
Stddev	.033	.00067	.00014	.00021	.00009
%RSD	.32848	.21051	.23315	.06951	.12757
#1	10.187	.31838	.05921	.29840	.06924
#2	10.139	.31933	.05940	.29811	.06937

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3397.9**	**2376.8**	**16746.**	**3217.5**
Stddev	.6	4.6	87.	9.7
%RSD	.01808	.19487	.51681	.30003
#1	3398.3	2373.6	16807.	3210.7
#2	3397.4	2380.1	16685.	3224.3

Sample Name: IC-4121445 Acquired: 7/26/2017 10:27:04 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.49769**	**2.8259**	**.13862**	**.73616**	**9.5600**
Stddev	.00135	.0043	.00027	.00108	.0076
%RSD	.27126	.15046	.19222	.14686	.07964
#1	.49865	2.8289	.13843	.73540	9.5546
#2	.49674	2.8229	.13881	.73693	9.5654

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**27.076**	**12.954**	**19.964**	**3.7370**	**.0791**
Stddev	.097	.002	.014	.0007	.0026
%RSD	.35745	.01503	.07195	.01801	3.248
#1	27.007	12.952	19.974	3.7366	.0809
#2	27.144	12.955	19.953	3.7375	.0773

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.5203**	**.37375**	**.36985**	**14.416**	**.87267**
Stddev	.0016	.00254	.00054	.009	.00330
%RSD	.10313	.67901	.14546	.06220	.37840
#1	1.5192	.37555	.37023	14.409	.87033
#2	1.5214	.37196	.36947	14.422	.87500

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.2017**	**2.7089**	**1.9736**	**2.5389**	**.29570**
Stddev	.0124	.0057	.0045	.0057	.00197
%RSD	.23737	.21134	.22911	.22357	.66590
#1	5.1930	2.7130	1.9767	2.5429	.29710
#2	5.2104	2.7049	1.9704	2.5349	.29431

Sample Name: IC-4121445 Acquired: 7/26/2017 10:27:04 Type: Cal
Method: ICAP2 June 2017(v60) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3233**	**21.473**	**.68681**	**.56308**	**.27387**
Stddev	.0002	.013	.00010	.00027	.00046
%RSD	.01193	.05949	.01488	.04712	.16718
#1	1.3232	21.464	.68688	.56327	.27419
#2	1.3234	21.482	.68674	.56290	.27355

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.9940**	**.24569**	**.10571**	**4.3215**	**.30292**
Stddev	.0026	.00037	.00091	.0116	.00097
%RSD	.06542	.15183	.86524	.26897	.31891
#1	3.9922	.24596	.10635	4.3133	.30224
#2	3.9959	.24543	.10506	4.3297	.30360

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**20.368**	**.63280**	**.11898**	**.59140**	**.13639**
Stddev	.016	.00141	.00049	.00418	.00070
%RSD	.07830	.22309	.41367	.70759	.50990
#1	20.357	.63380	.11863	.59436	.13688
#2	20.380	.63181	.11932	.58844	.13590

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3229.8**	**2335.0**	**16543.**	**3205.3**
Stddev	1.6	.2	77.	17.4
%RSD	.04889	.01042	.46761	.54293
#1	3230.9	2335.1	16488.	3217.6
#2	3228.7	2334.8	16598.	3193.0

Sample Name: ICV-4147886 Acquired: 7/26/2017 10:30:19 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36686**	**18.973**	**.37598**	**.38086**	**.37770**
Stddev	.00038	.171	.00132	.00015	.00077
%RSD	.10355	.90039	.35133	.03941	.20360
#1	.36659	18.853	.37505	.38096	.37825
#2	.36713	19.094	.37692	.38075	.37716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38475**	**19.037**	**.37839**	**-.0224**	**.37119**
Stddev	.00095	.113	.00004	.0063	.00002
%RSD	.24707	.59503	.01124	28.23	.00644
#1	.38408	18.957	.37842	-.0179	.37118
#2	.38542	19.117	.37836	-.0269	.37121
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38400**	**.38270**	**18.874**	**19.151**	**.37482**
Stddev	.00157	.00162	.073	.059	.00240
%RSD	.40767	.42374	.38878	.30849	.64078
#1	.38290	.38385	18.822	19.109	.37312
#2	.38511	.38156	18.926	19.192	.37651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4147886 Acquired: 7/26/2017 10:30:19 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.985**	**.38957**	**.37984**	**18.886**	**.37803**
Stddev	.001	.00054	.00046	.070	.00070
%RSD	.00312	.13817	.12194	.37019	.18512
#1	18.985	.38995	.38016	18.837	.37852
#2	18.986	.38919	.37951	18.936	.37753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37382**	**18.532**	**.37638**	**.37580**	**18.536**
Stddev	.00253	.017	.00043	.00322	.031
%RSD	.67640	.09156	.11423	.85558	.16568
#1	.37561	18.520	.37607	.37808	18.514
#2	.37203	18.544	.37668	.37353	18.558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37937**	**.37327**	**.37834**	**.37811**	**.37804**
Stddev	.00090	.00128	.00031	.00053	.00147
%RSD	.23730	.34403	.08144	.13891	.38904
#1	.38001	.37236	.37856	.37848	.37700
#2	.37874	.37417	.37812	.37774	.37908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4147886 Acquired: 7/26/2017 10:30:19 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	W .39708
Stddev	.00100
%RSD	.25243
#1	.39637
#2	.39779
Check ?	Chk Warn
Value	.37500
Range	5.0000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3456.0	2391.4	16942.	3205.2
Stddev	3.8	3.9	49.	20.4
%RSD	.10925	.16213	.29071	.63532
#1	3453.4	2388.6	16977.	3219.6
#2	3458.7	2394.1	16907.	3190.8

Sample Name: ICB-4130963 Acquired: 7/26/2017 10:33:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00772**	**-.00139**	**.00157**	**.00001**
Stddev	.00110	.00227	.00125	.00021	.00003
%RSD	325.56	29.434	89.437	13.043	302.63
#1	-.00044	.00933	-.00227	.00172	.00003
#2	.00111	.00611	-.00051	.00143	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**-.00160**	**.00006**	**-.0172**	**-.00009**
Stddev	.00003	.00330	.00002	.0102	.00001
%RSD	741.66	206.12	35.790	59.34	13.158
#1	-.00002	-.00394	.00004	-.0100	-.00008
#2	.00003	.00073	.00007	-.0244	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.00020**	**.00235**	**.01431**	**-.00059**
Stddev	.00068	.00048	.00097	.06169	.00088
%RSD	95.878	240.99	41.315	431.21	147.84
#1	.00119	.00014	.00304	-.02931	-.00121
#2	.00023	-.00054	.00166	.05793	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4130963 Acquired: 7/26/2017 10:33:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**.00004**	**.00004**	**-.00105**	**-.00016**
Stddev	.00366	.00006	.00025	.00440	.00009
%RSD	239.53	150.48	680.45	420.77	52.862
#1	.00411	-.00000	-.00014	.00206	-.00022
#2	-.00106	.00008	.00021	-.00415	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00012**	**-.00004**	**.00138**	**.01780**
Stddev	.00002	.00294	.00050	.00242	.00510
%RSD	8.0386	2529.3	1277.0	175.87	28.652
#1	-.00026	-.00196	.00031	.00309	.01419
#2	-.00023	.00219	-.00039	-.00034	.02141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00002**	**.00016**	**.00068**	**-.00023**
Stddev	.00015	.00007	.00025	.00069	.00022
%RSD	53.214	370.30	156.33	100.95	99.703
#1	-.00038	-.00003	.00034	.00117	-.00007
#2	-.00017	.00007	-.00002	.00020	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4130963 Acquired: 7/26/2017 10:33:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00030
Stddev	.00020
%RSD	66.636
#1	.00044
#2	.00016
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3734.3	2415.5	17221.	3197.6
Stddev	5.5	2.6	4.	32.0
%RSD	.14672	.10754	.02375	.99993
#1	3730.4	2413.6	17218.	3175.0
#2	3738.2	2417.3	17224.	3220.2

Sample Name: ICVL-4147888 Acquired: 7/26/2017 10:37:00 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**.21306**	**.01564**	**.02135**	**.00212**
Stddev	.00033	.00499	.00114	.00002	.00005
%RSD	5.6822	2.3440	7.3168	.08859	2.2881
#1	.00562	.20953	.01483	.02133	.00216
#2	.00609	.21659	.01645	.02136	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.51155**	**.00214**	**-.0249**	**.00386**
Stddev	.00002	.00324	.00002	.0001	.00008
%RSD	.99617	.63409	1.0367	.2296	2.0417
#1	.00210	.50926	.00216	-.0249	.00381
#2	.00207	.51385	.00213	-.0249	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00437**	**.01053**	**.05259**	**.54191**	**.02979**
Stddev	.00007	.00038	.00121	.02802	.00073
%RSD	1.7044	3.6082	2.3031	5.1700	2.4633
#1	.00443	.01026	.05344	.56173	.03031
#2	.00432	.01080	.05173	.52210	.02928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4147888 Acquired: 7/26/2017 10:37:00 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20612**	**.00307**	**.01032**	**1.0159**	**.00964**
Stddev	.00147	.00005	.00011	.0089	.00004
%RSD	.71485	1.6512	1.0480	.87714	.41162
#1	.20716	.00303	.01039	1.0222	.00961
#2	.20508	.00310	.01024	1.0096	.00967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01004**	**.19723**	**.02032**	**.02775**	**.53065**
Stddev	.00111	.00114	.00029	.00012	.00904
%RSD	11.023	.57710	1.4066	.41989	1.7027
#1	.01082	.19643	.02011	.02767	.52426
#2	.00926	.19804	.02052	.02783	.53704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00931**	**.00492**	**.00448**	**.02041**	**.00494**
Stddev	.00028	.00011	.00046	.00084	.00027
%RSD	3.0544	2.3331	10.279	4.1240	5.4203
#1	.00951	.00500	.00416	.01982	.00513
#2	.00911	.00484	.00481	.02101	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4147888 Acquired: 7/26/2017 10:37:00 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01064
Stddev	.00029
%RSD	2.6885
#1	.01044
#2	.01084
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3753.3	2428.8	17398.	3190.5
Stddev	1.5	2.4	55.	7.9
%RSD	.04055	.10083	.31349	.24908
#1	3752.2	2427.0	17437.	3184.9
#2	3754.3	2430.5	17360.	3196.1

Sample Name: ICSA-4090634 Acquired: 7/26/2017 10:40:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00204**	**511.75**	**.00362**	**-.00074**	**.00073**
Stddev	.00115	1.87	.00331	.00012	.00002
%RSD	56.451	.36459	91.263	15.944	3.2232
#1	-.00122	513.07	.00596	-.00082	.00072
#2	-.00285	510.43	.00128	-.00066	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**476.28**	**-.00025**	**.0091**	**-.00074**
Stddev	.00001	2.00	.00022	.0331	.00035
%RSD	8.2182	.42053	86.282	362.3	47.285
#1	-.00013	474.86	-.00041	-.0143	-.00049
#2	-.00012	477.70	-.00010	.0325	-.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00371**	**189.76**	**.02851**	**-.01844**
Stddev	.00016	.00106	.54	.01079	.00089
%RSD	29.173	28.571	.28408	37.837	4.8436
#1	-.00042	-.00446	190.14	.02089	-.01907
#2	-.00064	-.00296	189.38	.03614	-.01781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 7/26/2017 10:40:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**525.74**	**.00029**	**-.00146**	**.04743**	**-.00225**
Stddev	.01	.00005	.00005	.00061	.00081
%RSD	.00119	18.496	3.5841	1.2784	35.875
#1	525.74	.00026	-.00142	.04701	-.00282
#2	525.75	.00033	-.00150	.04786	-.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00358**	**.05499**	**.00274**	**.00408**	**.03414**
Stddev	.00126	.00187	.00070	.00065	.00566
%RSD	35.233	3.4032	25.724	15.897	16.573
#1	-.00447	.05367	.00224	.00454	.03014
#2	-.00269	.05632	.00324	.00362	.03814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00301**	**.03145**	**-.00037**	**-.00247**	**.00173**
Stddev	.00068	.00002	.00028	.00084	.00003
%RSD	22.528	.04961	75.516	34.090	1.9966
#1	.00253	.03147	-.00017	-.00188	.00171
#2	.00349	.03144	-.00056	-.00307	.00176
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 7/26/2017 10:40:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00567
Stddev	.00044
%RSD	7.7084
#1	.00598
#2	.00536
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2730.5	2169.8	15010.	3110.1
Stddev	1.7	3.3	6.	4.5
%RSD	.06335	.15112	.04239	.14390
#1	2729.2	2167.4	15014.	3106.9
#2	2731.7	2172.1	15005.	3113.3

Sample Name: ICSAB-4093406 Acquired: 7/26/2017 10:43:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22100**	**534.92**	**.10651**	**.00275**	**.50006**
Stddev	.00127	2.28	.00248	.00008	.00176
%RSD	.57609	.42606	2.3284	2.9144	.35256
#1	.22010	533.31	.10826	.00269	.49882
#2	.22190	536.53	.10475	.00281	.50131
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51134**	**479.84**	**1.0169**	**.0378**	**.49390**
Stddev	.00112	1.80	.0004	.0108	.00003
%RSD	.21807	.37489	.03736	28.53	.00574
#1	.51055	478.56	1.0166	.0302	.49388
#2	.51213	481.11	1.0172	.0454	.49392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48656**	**.53265**	**97.128**	**.05140**	**.49579**
Stddev	.00191	.00366	.925	.03225	.00443
%RSD	.39224	.68628	.95284	62.742	.89346
#1	.48791	.53006	96.474	.07420	.49266
#2	.48521	.53523	97.782	.02859	.49893
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-4093406 Acquired: 7/26/2017 10:43:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**546.73**	**.50625**	**-.00057**	**.17636**	**.97994**
Stddev	.15	.00019	.00040	.00332	.00143
%RSD	.02736	.03691	69.940	1.8799	.14561
#1	546.63	.50612	-.00029	.17870	.97893
#2	546.84	.50638	-.00086	.17401	.98095
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05008**	**1.0379**	**.60178**	**.04925**	**.99956**
Stddev	.00026	.0032	.00184	.00198	.00693
%RSD	.51792	.31168	.30517	4.0184	.69327
#1	.05027	1.0402	.60048	.04786	.99466
#2	.04990	1.0356	.60308	.05065	1.0045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00274**	**.48563**	**.00098**	**.09886**	**.50891**
Stddev	.00096	.00146	.00008	.00169	.00018
%RSD	35.120	.30001	7.9905	1.7110	.03538
#1	.00342	.48460	.00093	.10006	.50878
#2	.00206	.48666	.00104	.09767	.50903
Check ?	None	None	None	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICSAB-4093406 Acquired: 7/26/2017 10:43:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.93439**
Stddev	.00268
%RSD	.28659
#1	.93249
#2	.93628
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2731.1**	**2166.6**	**14911.**	**3138.0**
Stddev	.7	1.2	60.	4.5
%RSD	.02433	.05664	.40000	.14379
#1	2731.6	2167.5	14953.	3141.2
#2	2730.7	2165.8	14869.	3134.8

Sample Name: ICEX1 Acquired: 7/26/2017 10:47:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.05942**	**4.9724**	**.00033**	**.00010**
Stddev	.00078	.00004	.0023	.00006	.00000
%RSD	180.96	.07571	.04674	17.694	3.1051
#1	.00012	.05945	4.9708	.00038	.00009
#2	-.00098	.05939	4.9740	.00029	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.04755**	**-.00092**	**-.0351**	**.00004**
Stddev	.00007	.00283	.00026	.0065	.00007
%RSD	18.102	5.9531	28.210	18.65	185.41
#1	.00045	.04956	-.00073	-.0305	-.00001
#2	.00035	.04555	-.00110	-.0397	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**26.806**	**.00586**	**.04025**	**-.00058**
Stddev	.00008	.007	.00072	.00136	.00100
%RSD	15.331	.02719	12.345	3.3827	173.77
#1	.00061	26.801	.00637	.03928	-.00128
#2	.00049	26.811	.00535	.04121	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 7/26/2017 10:47:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01208**	**.00024**	**.00028**	**.01401**	**.00025**
Stddev	.00602	.00001	.00001	.00201	.00009
%RSD	49.866	6.0238	2.5007	14.363	34.022
#1	.00782	.00023	.00029	.01259	.00031
#2	.01633	.00025	.00028	.01544	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00151**	**.00434**	**.00115**	**.00302**	**.02757**
Stddev	.00094	.00044	.00099	.00017	.00237
%RSD	61.901	10.257	85.972	5.6701	8.5852
#1	-.00085	.00465	.00185	.00289	.02590
#2	-.00218	.00402	.00045	.00314	.02925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00006**	**.00014**	**.01235**	**5.0361**
Stddev	.00024	.00005	.00006	.00005	.0236
%RSD	601.81	87.347	43.792	.38861	.46759
#1	-.00021	-.00002	.00009	.01239	5.0195
#2	.00013	-.00010	.00018	.01232	5.0528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 7/26/2017 10:47:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00521
Stddev	.00003
%RSD	.51870
#1	.00519
#2	.00523
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3747.6	2424.9	17378.	3220.3
Stddev	4.3	3.7	45.	11.3
%RSD	.11345	.15459	.25996	.35108
#1	3750.6	2427.5	17410.	3228.3
#2	3744.6	2422.2	17346.	3212.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.50%	100.61%	100.86%	101.11%
Range				

Sample Name: ICEX2 Acquired: 7/26/2017 10:50:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00190**	**.07581**	**.00431**	**.01130**	**.00004**
Stddev	.00102	.00620	.00150	.00015	.00002
%RSD	53.880	8.1738	34.833	1.3280	59.070
#1	-.00263	.07143	.00537	.01119	.00002
#2	-.00118	.08019	.00325	.01140	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00141**	**.01613**	**.00045**	**-.0457**	**.00173**
Stddev	.00008	.00314	.00034	.0320	.00003
%RSD	5.7698	19.452	74.750	70.08	1.7515
#1	-.00135	.01834	.00069	-.0684	.00175
#2	-.00147	.01391	.00021	-.0231	.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**-.00926**	**-.00147**	**.00340**	**-.00146**
Stddev	.00030	.00026	.00064	.01689	.00075
%RSD	47.099	2.8464	43.496	496.49	51.676
#1	.00086	-.00944	-.00192	-.00854	-.00092
#2	.00043	-.00907	-.00102	.01535	-.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 7/26/2017 10:50:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01908**	**.00201**	**-.00014**	**.00971**	**.00439**
Stddev	.00405	.00013	.00029	.00508	.00002
%RSD	21.221	6.4221	198.19	52.278	.53366
#1	.02194	.00192	.00006	.00612	.00441
#2	.01621	.00210	-.00035	.01331	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00136**	**.00719**	**.00784**	**-.00013**	**.33673**
Stddev	.00045	.00156	.00018	.00174	.04085
%RSD	33.038	21.679	2.3275	1316.7	12.131
#1	.00168	.00829	.00771	.00110	.30785
#2	.00104	.00609	.00797	-.00137	.36562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00392**	**.00002**	**19.483**	**19.921**	**-.00289**
Stddev	.00063	.00001	.003	.026	.00041
%RSD	16.107	51.748	.01736	.13117	14.063
#1	-.00437	.00001	19.485	19.939	-.00318
#2	-.00348	.00003	19.480	19.902	-.00261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 7/26/2017 10:50:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00236**
Stddev	.00039
%RSD	16.572
#1	.00264
#2	.00208
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3714.1**	**2417.5**	**17185.**	**3204.6**
Stddev	1.8	2.8	7.	13.2
%RSD	.04920	.11469	.04292	.41237
#1	3712.9	2419.4	17179.	3195.3
#2	3715.4	2415.5	17190.	3213.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.608%	100.30%	99.733%	100.62%
Range				

Sample Name: ICEX3 Acquired: 7/26/2017 10:54:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00300**	**.06170**	**.00274**	**-.00033**	**.00013**
Stddev	.00066	.00350	.00084	.00027	.00002
%RSD	21.857	5.6755	30.617	81.744	12.795
#1	-.00347	.06418	.00333	-.00053	.00012
#2	-.00254	.05923	.00214	-.00014	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.03776**	**.00031**	**-.2312**	**-.00009**
Stddev	.00002	.00264	.00038	.0330	.00001
%RSD	37.243	6.9877	121.51	14.26	13.363
#1	-.00004	.03962	.00004	-.2079	-.00010
#2	-.00007	.03589	.00058	-.2545	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.00194**	**.00217**	**-.02958**	**-.00132**
Stddev	.00052	.00039	.00019	.01071	.00251
%RSD	51.582	20.282	8.7817	36.195	189.60
#1	-.00138	.00221	.00230	-.02201	-.00310
#2	-.00064	.00166	.00203	-.03715	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 7/26/2017 10:54:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.10080**	**50.561**	**-.00220**	**-.00219**	**.00078**
Stddev	.00058	.181	.00005	.00201	.00007
%RSD	.57643	.35876	2.2517	91.597	9.0736
#1	-.10039	50.689	-.00217	-.00077	.00083
#2	-.10121	50.433	-.00224	-.00362	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00398**	**97.256**	**-.00312**	**-.00919**	**.00509**
Stddev	.00074	.004	.00000	.00031	.00513
%RSD	18.460	.00366	.06947	3.4001	100.71
#1	.00346	97.254	-.00312	-.00942	.00147
#2	.00450	97.259	-.00312	-.00897	.00872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.00005**	**.00171**	**.00602**	**-.00085**
Stddev	.00035	.00004	.00042	.00039	.00076
%RSD	58.433	93.583	24.344	6.4574	90.149
#1	-.00035	-.00002	.00200	.00630	-.00138
#2	-.00084	-.00008	.00141	.00575	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 7/26/2017 10:54:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00765**
Stddev	.00044
%RSD	5.8131
#1	.00734
#2	.00796
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3715.4**	**2431.0**	**17227.**	**3205.2**
Stddev	10.7	8.6	26.	15.4
%RSD	.28692	.35290	.15240	.47902
#1	3707.9	2424.9	17245.	3216.1
#2	3722.9	2437.1	17208.	3194.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.641%	100.87%	99.978%	100.64%
Range				

Sample Name: ICEX4 Acquired: 7/26/2017 11:01:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.06780**	**-.00721**	**-.00179**	**.00005**
Stddev	.00045	.00258	.00052	.00027	.00000
%RSD	240.36	3.8116	7.1889	15.117	6.2069
#1	-.00051	-.06963	-.00758	-.00198	.00005
#2	.00013	-.06597	-.00684	-.00160	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00817**	**.00046**	**-.0118**	**19.440**
Stddev	.00006	.00338	.00011	.0028	.007
%RSD	169.72	41.362	23.532	23.61	.03838
#1	.00001	.00578	.00053	-.0138	19.445
#2	-.00007	.01055	.00038	-.0098	19.435
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.272**	**.00801**	**.00281**	**-.01889**	**.00007**
Stddev	.033	.00117	.00216	.02081	.00105
%RSD	.32208	14.628	76.667	110.13	1615.4
#1	10.248	.00719	.00129	-.03360	.00081
#2	10.295	.00884	.00434	-.00418	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 7/26/2017 11:01:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00040**	**.00020**	**-.00944**	**-.00411**
Stddev	.00055	.00012	.00004	.00532	.00009
%RSD	78.488	30.854	22.348	56.343	2.1263
#1	-.00110	.00048	.00017	-.01320	-.00418
#2	-.00031	.00031	.00023	-.00568	-.00405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00351**	**.01194**	**.01332**	**.00291**	**-.05083**
Stddev	.00041	.00032	.00031	.00225	.00934
%RSD	11.758	2.7115	2.3581	77.325	18.369
#1	-.00322	.01217	.01354	.00450	-.04423
#2	-.00380	.01171	.01310	.00132	-.05744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00001**	**-.00058**	**-.00278**	**-.00025**
Stddev	.00018	.00003	.00039	.00040	.00001
%RSD	231.13	236.08	67.179	14.437	5.9467
#1	.00005	-.00004	-.00085	-.00306	-.00026
#2	-.00020	.00001	-.00030	-.00250	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 7/26/2017 11:01:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00133
Stddev	.00004
%RSD	2.9677
#1	.00136
#2	.00130
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3758.9	2410.6	17334.	3227.8
Stddev	4.1	4.4	46.	8.6
%RSD	.10948	.18206	.26658	.26706
#1	3761.8	2413.7	17367.	3233.9
#2	3756.0	2407.5	17301.	3221.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.81%	100.02%	100.60%	101.35%
Range				

Sample Name: ICEX5 Acquired: 7/26/2017 11:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.05923**	**.00127**	**-.00679**	**-.00004**
Stddev	.00027	.00078	.00005	.00082	.00000
%RSD	46.069	1.3161	3.6894	12.142	1.2461
#1	-.00040	.05868	.00131	-.00621	-.00004
#2	-.00078	.05979	.00124	-.00737	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.02401**	**.00016**	**-.0224**	**-.00032**
Stddev	.00008	.00150	.00005	.0001	.00009
%RSD	61.179	6.2615	29.811	.5085	26.840
#1	-.00018	.02507	.00020	-.0224	-.00026
#2	-.00007	.02295	.00013	-.0225	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**-.00238**	**.00135**	**.01854**	**-.00196**
Stddev	.00008	.00130	.00108	.01200	.00062
%RSD	10.737	54.465	80.282	64.718	31.493
#1	.00068	-.00146	.00212	.02702	-.00152
#2	.00080	-.00330	.00058	.01005	-.00240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 7/26/2017 11:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.06929**	**.00094**	**5.0523**	**.01114**	**.00010**
Stddev	.00036	.00000	.0067	.01358	.00020
%RSD	.52347	.49628	.13188	121.90	187.38
#1	-.06903	.00094	5.0476	.02075	-.00003
#2	-.06955	.00093	5.0570	.00154	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.01251**	**.00095**	**.00388**	**-.02490**
Stddev	.00039	.00083	.00022	.00132	.00433
%RSD	97.467	6.6314	23.001	33.932	17.393
#1	-.00067	-.01192	.00110	.00295	-.02184
#2	-.00012	-.01309	.00079	.00481	-.02796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00004**	**.00078**	**.00074**	**-.00310**
Stddev	.00008	.00001	.00015	.00021	.00003
%RSD	35.591	38.341	19.238	28.859	.99848
#1	-.00028	-.00005	.00067	.00089	-.00308
#2	-.00017	-.00003	.00088	.00059	-.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 7/26/2017 11:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00216
Stddev	.00011
%RSD	4.8734
#1	.00223
#2	.00208
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3742.8	2428.0	17410.	3205.6
Stddev	11.7	6.9	57.	12.4
%RSD	.31161	.28543	.32821	.38728
#1	3751.1	2432.9	17370.	3196.8
#2	3734.6	2423.1	17450.	3214.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.38%	100.74%	101.04%	100.65%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:08:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50344**	**25.271**	**.50720**	**.50918**	**.49960**
Stddev	.00237	.037	.00222	.00095	.00056
%RSD	.47111	.14474	.43672	.18693	.11273
#1	.50176	25.245	.50877	.50850	.50000
#2	.50511	25.296	.50564	.50985	.49920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50946**	**25.151**	**.50696**	**-.0423**	**.49670**
Stddev	.00068	.024	.00053	.0125	.00069
%RSD	.13288	.09604	.10430	29.59	.13896
#1	.50994	25.168	.50658	-.0334	.49622
#2	.50898	25.134	.50733	-.0511	.49719
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51796**	**.51323**	**24.808**	**25.106**	**.49895**
Stddev	.00070	.00019	.007	.034	.00019
%RSD	.13429	.03663	.02884	.13384	.03774
#1	.51747	.51310	24.813	25.082	.49908
#2	.51845	.51337	24.803	25.130	.49881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:08:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.393**	**.51839**	**.50830**	**25.007**	**.50408**
Stddev	.039	.00069	.00088	.013	.00017
%RSD	.15456	.13363	.17237	.05161	.03412
#1	25.420	.51888	.50768	25.016	.50396
#2	25.365	.51790	.50892	24.998	.50420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50164**	**24.921**	**.50465**	**.50707**	**24.291**
Stddev	.00049	.007	.00043	.00212	.059
%RSD	.09747	.02647	.08422	.41818	.24381
#1	.50198	24.916	.50495	.50857	24.333
#2	.50129	24.926	.50435	.50557	24.249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50835**	**.49811**	**.50785**	**.50865**	**.50927**
Stddev	.00078	.00056	.00114	.00294	.00001
%RSD	.15425	.11143	.22382	.57749	.00191
#1	.50780	.49850	.50865	.51073	.50928
#2	.50891	.49772	.50705	.50657	.50926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:08:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50917
Stddev	.00088
%RSD	.17260
#1	.50979
#2	.50855
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3406.4	2374.9	16743.	3208.0
Stddev	8.3	6.1	59.	3.3
%RSD	.24260	.25665	.35113	.10171
#1	3412.2	2379.2	16784.	3210.4
#2	3400.5	2370.6	16701.	3205.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:11:27 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.01949**	**.00010**	**.00105**	**.00002**
Stddev	.00010	.01179	.00056	.00011	.00000
%RSD	29.655	60.513	584.22	10.091	3.3903
#1	-.00027	.01115	-.00030	.00097	.00002
#2	-.00042	.02782	.00049	.00112	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00144**	**.00006**	**-.0275**	**.00004**
Stddev	.00000	.00156	.00009	.0154	.00007
%RSD	3.9422	108.75	141.28	55.80	159.29
#1	-.00006	.00033	.00012	-.0384	.00009
#2	-.00006	.00254	.00000	-.0167	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00030**	**.00214**	**-.02925**	**-.00005**
Stddev	.00034	.00153	.00044	.02682	.00259
%RSD	2806.0	510.49	20.438	91.700	5655.1
#1	-.00023	-.00078	.00183	-.01028	-.00188
#2	.00025	.00138	.00245	-.04821	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:11:27 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00471**	**.00008**	**.00042**	**-.00555**	**.00017**
Stddev	.00139	.00002	.00007	.00787	.00021
%RSD	29.400	22.851	16.018	141.79	123.68
#1	.00373	.00009	.00037	-.01111	.00002
#2	.00569	.00006	.00047	.00001	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.00128**	**.00079**	**.00022**	**.01494**
Stddev	.00133	.00261	.00004	.00307	.00588
%RSD	210.51	204.17	5.5684	1362.8	39.370
#1	-.00157	-.00057	.00082	.00239	.01078
#2	.00031	.00313	.00076	-.00194	.01910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00006**	**-.00022**	**.00044**	**-.00012**
Stddev	.00010	.00006	.00018	.00010	.00044
%RSD	35.781	105.01	81.098	22.998	367.72
#1	-.00020	.00002	-.00035	.00036	.00019
#2	-.00034	.00010	-.00010	.00051	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:11:27 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00034
Stddev	.00036
%RSD	104.36
#1	.00009
#2	.00060
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3733.6	2404.2	17163.	3175.5
Stddev	.4	.1	90.	5.4
%RSD	.01185	.00403	.52209	.16929
#1	3733.9	2404.2	17226.	3179.3
#2	3733.3	2404.1	17099.	3171.7

Sample Name: CCVL-4147888 Acquired: 7/26/2017 11:20:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00524**	**.21506**	**.01617**	**.02067**	**.00221**
Stddev	.00014	.01036	.00014	.00024	.00012
%RSD	2.5854	4.8188	.85398	1.1468	5.5833
#1	.00514	.22239	.01607	.02051	.00230
#2	.00533	.20774	.01626	.02084	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.50712**	**.00210**	**-.0218**	**.00379**
Stddev	.00007	.00472	.00003	.0041	.00009
%RSD	3.1603	.93157	1.6367	18.64	2.3495
#1	.00204	.51046	.00207	-.0189	.00372
#2	.00214	.50378	.00212	-.0246	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00402**	**.01087**	**.04968**	**.52823**	**.02982**
Stddev	.00022	.00079	.00171	.02792	.00021
%RSD	5.4035	7.2945	3.4355	5.2855	.71512
#1	.00387	.01143	.04847	.54797	.02967
#2	.00418	.01031	.05088	.50849	.02997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 11:20:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22147**	F **.00453**	**.01021**	**1.0036**	**.00962**
Stddev	.00987	.00161	.00001	.0134	.00007
%RSD	4.4574	35.543	.06244	1.3330	.74070
#1	.22845	.00567	.01022	.99413	.00967
#2	.21449	.00339	.01021	1.0130	.00957
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		50.000%			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00998**	**.19375**	**.02065**	**.02499**	**.50787**
Stddev	.00026	.00032	.00047	.00224	.00162
%RSD	2.6499	.16329	2.2552	8.9769	.31878
#1	.00979	.19352	.02098	.02340	.50673
#2	.01016	.19397	.02032	.02658	.50902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00914**	**.00490**	**.00484**	**.02047**	**.00537**
Stddev	.00040	.00007	.00038	.00092	.00058
%RSD	4.3584	1.5221	7.7832	4.5099	10.829
#1	.00886	.00496	.00511	.02112	.00578
#2	.00942	.00485	.00457	.01981	.00496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 11:20:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01106
Stddev	.00076
%RSD	6.8580
#1	.01160
#2	.01053
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3756.7	2429.4	17392.	3204.1
Stddev	1.9	.2	10.	10.9
%RSD	.05063	.00675	.06003	.34026
#1	3758.0	2429.5	17400.	3211.8
#2	3755.3	2429.2	17385.	3196.4

Sample Name: mb 480-368171/1-a Acquired: 7/26/2017 11:24:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.02297**	**-.00156**	**.00204**	**.00004**
Stddev	.00017	.01320	.00143	.00008	.00001
%RSD	70.745	57.474	92.043	4.0502	19.230
#1	-.00012	.03230	-.00257	.00210	.00003
#2	-.00036	.01363	-.00054	.00198	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.02284**	**-.00001**	**-.0194**	**-.00004**
Stddev	.00005	.00078	.00008	.0101	.00006
%RSD	194.62	3.4194	534.88	51.92	140.70
#1	-.00001	.02229	.00004	-.0123	-.00000
#2	.00006	.02340	-.00007	-.0265	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00027**	**.00469**	**-.05017**	**-.00087**
Stddev	.00029	.00045	.00304	.03494	.00135
%RSD	76.552	165.34	64.723	69.642	155.89
#1	.00018	.00059	.00684	-.07488	-.00183
#2	.00059	-.00005	.00254	-.02547	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368171/1-a Acquired: 7/26/2017 11:24:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00953**	**.00095**	**-.00011**	**-.00758**	**.00013**
Stddev	.00083	.00003	.00017	.00498	.00012
%RSD	8.7198	3.4362	153.45	65.736	93.219
#1	.00894	.00092	.00001	-.00406	.00004
#2	.01012	.00097	-.00023	-.01111	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00185**	**.00040**	**.00167**	**-.00935**
Stddev	.00006	.00143	.00379	.00169	.01057
%RSD	7.6794	77.489	946.05	101.14	113.06
#1	-.00079	.00286	.00308	.00286	-.01683
#2	-.00071	.00084	-.00228	.00048	-.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00007**	**.00011**	**.00035**	**.00008**
Stddev	.00033	.00002	.00014	.00187	.00062
%RSD	156.58	31.035	130.98	531.07	819.61
#1	-.00044	.00006	.00001	-.00097	-.00036
#2	.00002	.00009	.00021	.00168	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368171/1-a Acquired: 7/26/2017 11:24:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00024
Stddev	.00048
%RSD	202.91
#1	-.00010
#2	.00058
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3834.5	2462.3	17534.	3282.1
Stddev	8.9	4.1	45.	12.4
%RSD	.23328	.16740	.25677	.37702
#1	3840.8	2465.2	17502.	3290.9
#2	3828.1	2459.4	17565.	3273.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.83%	102.17%	101.76%	103.05%
Range				

Sample Name: lcs 480-368171/2-a Acquired: 7/26/2017 11:27:39 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05001**	**10.137**	**.20165**	**.21040**	**.20793**
Stddev	.00032	.078	.00062	.00002	.00030
%RSD	.63090	.77170	.30712	.00842	.14230
#1	.05024	10.193	.20209	.21039	.20814
#2	.04979	10.082	.20122	.21042	.20772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20543**	**10.072**	**.20793**	**-.0346**	**.19249**
Stddev	.00003	.024	.00026	.0040	.00059
%RSD	.01596	.24247	.12436	11.69	.30883
#1	.20540	10.089	.20775	-.0317	.19292
#2	.20545	10.055	.20811	-.0374	.19207
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20758**	F **.24203**	**10.477**	**10.021**	**.20119**
Stddev	.00030	.00267	.011	.004	.00044
%RSD	.14310	1.1012	.10287	.03894	.21919
#1	.20737	.24391	10.485	10.023	.20150
#2	.20779	.24014	10.469	10.018	.20087
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: lcs 480-368171/2-a Acquired: 7/26/2017 11:27:39 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.480**	**.21023**	**.20132**	**9.9858**	**.19576**
Stddev	.021	.00018	.00010	.0045	.00064
%RSD	.19697	.08522	.04732	.04487	.32629
#1	10.466	.21036	.20125	9.9890	.19621
#2	10.495	.21010	.20138	9.9826	.19531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20612**	**10.147**	**.21167**	**.20729**	**10.222**
Stddev	.00035	.015	.00203	.00136	.024
%RSD	.16848	.14663	.96075	.65813	.23065
#1	.20587	10.158	.21023	.20632	10.205
#2	.20636	10.137	.21311	.20825	10.239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19952**	**.20284**	**.20212**	**.20743**	**.20747**
Stddev	.00075	.00021	.00072	.00061	.00074
%RSD	.37714	.10474	.35380	.29231	.35441
#1	.20005	.20269	.20263	.20700	.20799
#2	.19899	.20299	.20161	.20786	.20695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368171/2-a Acquired: 7/26/2017 11:27:39 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F .23272
Stddev	.00026
%RSD	.11205
#1	.23291
#2	.23254
Check ?	Chk Fail
High Limit	.23000
Low Limit	.17000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3614.4	2431.4	17326.	3307.7
Stddev	7.9	8.8	10.	14.9
%RSD	.21942	.36113	.05799	.44958
#1	3620.0	2437.6	17319.	3297.2
#2	3608.8	2425.2	17333.	3318.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.932%	100.88%	100.55%	103.86%
Range				

Sample Name: 121361-a-2-b@5 Acquired: 7/26/2017 11:30:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00137**	**.17307**	**.00065**	**.03255**	**.81840**
Stddev	.00044	.02078	.00270	.00063	.00074
%RSD	31.858	12.004	412.91	1.9478	.08983
#1	-.00106	.15838	.00256	.03210	.81788
#2	-.00168	.18776	-.00125	.03300	.81892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**555.21**	**-.00009**	**.0063**	**.00101**
Stddev	.00004	3.43	.00004	.0251	.00022
%RSD	22.895	.61733	46.614	400.1	21.847
#1	-.00021	552.79	-.00012	.0240	.00117
#2	-.00015	557.64	-.00006	-.0115	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00266**	**.09593**	**344.77**	**.00008**
Stddev	.00043	.00046	.00046	.11	.00343
%RSD	75.891	17.253	.48228	.03318	4096.2
#1	.00087	.00298	.09626	344.85	-.00234
#2	.00026	.00234	.09560	344.69	.00251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-b@5 Acquired: 7/26/2017 11:30:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.58418**	**.87158**	**.01308**	**521.35**	**.00523**
Stddev	.00770	.00093	.00044	.33	.00001
%RSD	1.3178	.10653	3.3336	.06384	.16483
#1	.57874	.87224	.01339	521.12	.00522
#2	.58963	.87092	.01277	521.59	.00523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00185**	**13.622**	**.00446**	**-.00038**	**.47985**
Stddev	.00116	.007	.00108	.00046	.00181
%RSD	62.554	.05282	24.201	121.80	.37764
#1	-.00267	13.617	.00523	-.00005	.47857
#2	-.00103	13.627	.00370	-.00071	.48114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**4.4618**	**-.00087**	**-.00140**	**.00057**
Stddev	.00088	.0042	.00038	.00042	.00081
%RSD	226.27	.09342	44.429	30.254	141.99
#1	.00101	4.4647	-.00059	-.00170	-.00000
#2	-.00023	4.4588	-.00114	-.00110	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-b@5 Acquired: 7/26/2017 11:30:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00259
Stddev	.00019
%RSD	7.1939
#1	.00272
#2	.00245
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2733.4	2098.8	14824.	3064.0
Stddev	3.6	2.9	54.	15.3
%RSD	.13300	.13974	.36648	.49838
#1	2736.0	2100.8	14785.	3074.8
#2	2730.8	2096.7	14862.	3053.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.306%	87.081%	86.031%	96.202%
Range				

Sample Name: 121361-a-2-c ms@5 Acquired: 7/26/2017 11:34:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00919**	**2.2236**	**.04423**	**.07371**	**.85605**
Stddev	.00041	.0098	.00270	.00018	.00196
%RSD	4.4297	.44307	6.1106	.24128	.22891
#1	.00890	2.2167	.04614	.07359	.85467
#2	.00948	2.2306	.04232	.07384	.85744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04121**	**554.16**	**.04454**	**.0072**	**.04245**
Stddev	.00003	2.23	.00010	.0089	.00018
%RSD	.06144	.40238	.22039	122.7	.43141
#1	.04120	552.58	.04447	.0135	.04258
#2	.04123	555.74	.04461	.0010	.04232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04104**	**.04435**	**2.1662**	**344.77**	**.04108**
Stddev	.00031	.00069	.0038	.31	.00060
%RSD	.76614	1.5536	.17664	.09059	1.4705
#1	.04082	.04386	2.1689	344.55	.04066
#2	.04127	.04484	2.1635	345.00	.04151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-c ms@5 Acquired: 7/26/2017 11:34:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5224**	**.89263**	**.05284**	**522.24**	**.04692**
Stddev	.0020	.00194	.00018	1.39	.00049
%RSD	.07895	.21761	.34259	.26593	1.0398
#1	2.5210	.89125	.05297	521.26	.04657
#2	2.5238	.89400	.05272	523.23	.04726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04388**	**15.546**	**.04691**	**.04289**	**2.5733**
Stddev	.00029	.014	.00098	.00315	.0119
%RSD	.66809	.09090	2.0830	7.3532	.46266
#1	.04408	15.536	.04622	.04066	2.5817
#2	.04367	15.556	.04760	.04512	2.5649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04358**	**4.4564**	**.04013**	**.04072**	**.04163**
Stddev	.00047	.0118	.00005	.00181	.00094
%RSD	1.0794	.26494	.11336	4.4443	2.2699
#1	.04392	4.4480	.04010	.04200	.04096
#2	.04325	4.4647	.04016	.03944	.04230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-c ms@5 Acquired: 7/26/2017 11:34:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04364
Stddev	.00022
%RSD	.50770
#1	.04348
#2	.04380
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2738.6	2109.0	15013.	3051.4
Stddev	.4	.1	37.	2.6
%RSD	.01409	.00499	.24497	.08638
#1	2738.4	2108.9	15039.	3053.3
#2	2738.9	2109.1	14987.	3049.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.446%	87.505%	87.128%	95.807%
Range				

Sample Name: 121361-a-2-d msd@5 Acquired: 7/26/2017 11:38:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00935**	**2.2405**	**.04575**	**.07417**	**.86871**
Stddev	.00113	.0308	.00121	.00054	.00154
%RSD	12.059	1.3751	2.6414	.72182	.17733
#1	.01015	2.2623	.04489	.07379	.86980
#2	.00855	2.2187	.04660	.07455	.86762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04123**	**558.80**	**.04430**	**.0077**	**.04281**
Stddev	.00004	.16	.00007	.0198	.00006
%RSD	.09394	.02839	.15052	255.3	.14829
#1	.04120	558.92	.04426	.0217	.04277
#2	.04126	558.69	.04435	-.0062	.04286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04067**	**.04704**	**2.1656**	**350.45**	**.03975**
Stddev	.00021	.00039	.0150	.03	.00170
%RSD	.51266	.83840	.69381	.00818	4.2731
#1	.04082	.04676	2.1762	350.43	.03854
#2	.04052	.04731	2.1550	350.47	.04095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-d msd@5 Acquired: 7/26/2017 11:38:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5354**	**.90786**	**.05291**	**531.90**	**.04714**
Stddev	.0091	.00149	.00030	.21	.00023
%RSD	.35680	.16461	.56804	.03889	.47948
#1	2.5291	.90892	.05270	531.75	.04730
#2	2.5418	.90680	.05313	532.04	.04698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04388**	**15.699**	**.04776**	**.04239**	**2.5462**
Stddev	.00118	.011	.00013	.00107	.0133
%RSD	2.6785	.07050	.26378	2.5183	.52266
#1	.04304	15.691	.04785	.04314	2.5556
#2	.04471	15.706	.04767	.04163	2.5368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04347**	**4.4912**	**.04023**	**.03812**	**.04159**
Stddev	.00033	.0065	.00062	.00000	.00022
%RSD	.76255	.14475	1.5409	.00312	.54080
#1	.04371	4.4866	.04067	.03812	.04175
#2	.04324	4.4958	.03979	.03812	.04143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121361-a-2-d msd@5 Acquired: 7/26/2017 11:38:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04439**
Stddev	.00067
%RSD	1.5108
#1	.04486
#2	.04392
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2725.5**	**2103.8**	**14896.**	**3038.5**
Stddev	3.0	2.7	21.	4.8
%RSD	.11006	.12817	.13900	.15881
#1	2723.3	2101.9	14881.	3035.0
#2	2727.6	2105.7	14910.	3041.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.093%	87.290%	86.449%	95.401%
Range				

Sample Name: BLANK Acquired: 7/26/2017 11:41:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.02823**	**.00087**	**.00051**	**.00042**
Stddev	.00033	.00041	.00135	.00024	.00001
%RSD	165.03	1.4410	155.11	46.994	3.2919
#1	-.00003	.02852	.00182	.00034	.00041
#2	.00043	.02795	-.00008	.00068	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.04086**	**.00038**	**-.0209**	**.00022**
Stddev	.00002	.00730	.00004	.0451	.00004
%RSD	6.0965	17.868	10.151	216.3	18.526
#1	.00043	.04602	.00035	-.0528	.00020
#2	.00039	.03570	.00041	.0110	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**.00077**	**.01964**	**.20154**	**-.00189**
Stddev	.00054	.00093	.00056	.00095	.00043
%RSD	47.924	121.30	2.8306	.47083	22.683
#1	.00152	.00143	.02003	.20221	-.00159
#2	.00075	.00011	.01925	.20087	-.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 11:41:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02637**	**.00046**	**.00049**	**.07420**	**.00037**
Stddev	.00443	.00008	.00003	.00067	.00011
%RSD	16.795	18.340	6.9683	.90064	28.648
#1	.02324	.00040	.00046	.07467	.00030
#2	.02950	.00052	.00051	.07372	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.02108**	**.00056**	**.00078**	**.02899**
Stddev	.00003	.00155	.00065	.00094	.00916
%RSD	11.242	7.3373	115.63	120.48	31.607
#1	.00028	.02217	.00010	.00012	.03546
#2	.00033	.01999	.00102	.00144	.02251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00056**	**.00023**	**.00091**	**.00093**
Stddev	.00049	.00001	.00006	.00178	.00035
%RSD	108.43	1.6740	26.159	196.69	37.414
#1	.00010	.00055	.00019	-.00035	.00118
#2	.00079	.00056	.00028	.00217	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 11:41:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00078
Stddev	.00012
%RSD	15.418
#1	.00069
#2	.00086
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3730.2	2407.8	17061.	3176.8
Stddev	.8	3.9	15.	18.9
%RSD	.02120	.16029	.08979	.59359
#1	3729.7	2410.5	17072.	3163.5
#2	3730.8	2405.0	17051.	3190.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.04%	99.902%	99.018%	99.744%
Range				

Sample Name: 480-121340-a-1-b Acquired: 7/26/2017 11:45:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.01498**	**-.00089**	**.01419**	**.04824**
Stddev	.00011	.00453	.00081	.00019	.00006
%RSD	12.442	30.244	91.227	1.3111	.12440
#1	-.00093	.01178	-.00032	.01406	.04819
#2	-.00078	.01818	-.00146	.01432	.04828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**30.290**	**.00029**	**-.0026**	**-.00018**
Stddev	.00001	.117	.00008	.0141	.00004
%RSD	14.045	.38521	26.606	546.2	20.764
#1	-.00009	30.372	.00034	-.0126	-.00021
#2	-.00007	30.207	.00023	.0074	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.07521**	**.88819**	**3.2942**	**.00176**
Stddev	.00011	.00114	.00343	.0230	.00126
%RSD	36.348	1.5102	.38660	.69939	71.643
#1	.00022	.07602	.89062	3.2779	.00265
#2	.00038	.07441	.88576	3.3105	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121340-a-1-b Acquired: 7/26/2017 11:45:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9235**	**.00370**	**-.00002**	**18.140**	**.00072**
Stddev	.0093	.00009	.00005	.014	.00031
%RSD	.09376	2.5207	205.94	.07934	43.096
#1	9.9169	.00364	-.00006	18.151	.00050
#2	9.9301	.00377	.00001	18.130	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02480**	**3.9566**	**.00053**	**.00434**	**11.553**
Stddev	.00008	.0053	.00032	.00283	.063
%RSD	.31003	.13398	60.829	65.346	.54571
#1	.02475	3.9529	.00076	.00233	11.597
#2	.02486	3.9603	.00030	.00634	11.508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00277**	**.16270**	**.00007**	**.00111**	**.00061**
Stddev	.00029	.00044	.00055	.00101	.00019
%RSD	10.544	.26947	788.76	90.990	30.811
#1	.00256	.16301	.00046	.00183	.00074
#2	.00297	.16239	-.00032	.00040	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121340-a-1-b Acquired: 7/26/2017 11:45:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.26012**
Stddev	.00104
%RSD	.40027
#1	.25939
#2	.26086
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3580.4**	**2400.7**	**17018.**	**3267.5**
Stddev	14.8	8.6	47.	7.6
%RSD	.41323	.35671	.27404	.23279
#1	3590.9	2406.8	17051.	3262.1
#2	3570.0	2394.7	16985.	3272.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.022%	99.611%	98.764%	102.59%
Range				

Sample Name: 480-121369-b-1-a Acquired: 7/26/2017 11:48:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.03974**	**.01021**	**.63159**	**.18025**
Stddev	.00054	.01719	.00025	.00038	.00026
%RSD	188.10	43.268	2.4691	.06095	.14524
#1	-.00067	.02758	.01003	.63132	.18007
#2	.00009	.05190	.01039	.63186	.18044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**158.83**	**.00035**	**-.0270**	**.00078**
Stddev	.00002	.01	.00002	.0180	.00009
%RSD	69.221	.00937	6.5819	66.68	11.025
#1	-.00002	158.84	.00037	-.0398	.00072
#2	-.00005	158.82	.00033	-.0143	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**-.00169**	**17.691**	**13.636**	**.01189**
Stddev	.00022	.00010	.127	.004	.00043
%RSD	25.874	5.9190	.71702	.02655	3.6550
#1	.00070	-.00176	17.781	13.638	.01219
#2	.00102	-.00161	17.601	13.633	.01158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121369-b-1-a Acquired: 7/26/2017 11:48:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.002**	**.25558**	**-.00014**	**40.028**	**.00550**
Stddev	.003	.00076	.00005	.057	.00051
%RSD	.00665	.29667	39.501	.14309	9.3245
#1	47.004	.25504	-.00010	39.988	.00586
#2	47.000	.25612	-.00018	40.069	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00275**	**.59963**	**-.00022**	**.00324**	**10.002**
Stddev	.00024	.00063	.00020	.00095	.014
%RSD	8.8737	.10484	90.747	29.324	.14133
#1	.00258	.60008	-.00008	.00391	9.9924
#2	.00292	.59919	-.00036	.00257	10.012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.36386**	**.00046**	**.00162**	**.00034**
Stddev	.00036	.00101	.00021	.00012	.00074
%RSD	198.91	.27706	45.813	7.3573	214.00
#1	-.00007	.36314	.00031	.00171	.00087
#2	.00043	.36457	.00061	.00154	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121369-b-1-a Acquired: 7/26/2017 11:48:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00434
Stddev	.00064
%RSD	14.858
#1	.00388
#2	.00479
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3245.8	2299.9	16431.	3205.7
Stddev	5.0	3.4	22.	7.6
%RSD	.15251	.14936	.13146	.23776
#1	3249.3	2302.3	16446.	3200.3
#2	3242.3	2297.5	16415.	3211.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.048%	95.427%	95.357%	100.65%
Range				

Sample Name: BLANK Acquired: 7/26/2017 11:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.00690**	**-.00093**	**.00099**	**.00004**
Stddev	.00075	.00363	.00014	.00014	.00004
%RSD	102.32	52.620	15.047	14.374	98.157
#1	-.00127	.00947	-.00083	.00109	.00001
#2	-.00020	.00434	-.00103	.00089	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01242**	**.00010**	**-.0181**	**-.00012**
Stddev	.00000	.00245	.00019	.0065	.00012
%RSD	6.7778	19.707	193.30	35.71	101.09
#1	.00001	.01415	-.00004	-.0227	-.00003
#2	.00001	.01069	.00023	-.0135	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00035**	**.00117**	**.06705**	**-.00122**
Stddev	.00005	.00079	.00112	.00106	.00149
%RSD	34.735	227.87	95.277	1.5844	122.10
#1	.00012	.00021	.00197	.06630	-.00017
#2	.00019	-.00091	.00038	.06780	-.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 11:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00789**	**.00007**	**-.00008**	**.02893**	**-.00017**
Stddev	.00407	.00001	.00017	.00128	.00011
%RSD	51.548	21.755	208.68	4.4090	63.880
#1	.01076	.00006	.00004	.02803	-.00010
#2	.00501	.00008	-.00020	.02983	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00077**	**-.00029**	**.00262**	**.00608**
Stddev	.00044	.00001	.00050	.00128	.00779
%RSD	154.07	1.4482	171.68	48.731	128.19
#1	.00060	.00078	-.00064	.00353	.00057
#2	-.00003	.00076	.00006	.00172	.01159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00012**	**-.00008**	**.00105**	**-.00013**
Stddev	.00015	.00001	.00013	.00058	.00015
%RSD	73.703	10.811	159.14	55.837	121.50
#1	.00030	.00011	-.00018	.00063	-.00002
#2	.00009	.00013	.00001	.00146	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 11:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00052**
Stddev	.00010
%RSD	19.721
#1	.00059
#2	.00044
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3723.5**	**2401.0**	**17120.**	**3200.2**
Stddev	2.7	2.7	73.	.7
%RSD	.07210	.11117	.42898	.02094
#1	3721.6	2399.1	17172.	3199.7
#2	3725.4	2402.9	17068.	3200.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.859%	99.620%	99.358%	100.48%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:55:44 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50138**	**25.303**	**.50326**	**.51034**	**.50534**
Stddev	.00008	.057	.00412	.00005	.00077
%RSD	.01635	.22380	.81960	.00970	.15245
#1	.50144	25.343	.50035	.51030	.50479
#2	.50132	25.263	.50618	.51037	.50588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51456**	**25.223**	**.50693**	**-.0330**	**.49798**
Stddev	.00266	.153	.00031	.0140	.00069
%RSD	.51720	.60543	.06160	42.32	.13953
#1	.51644	25.330	.50671	-.0231	.49847
#2	.51268	25.115	.50715	-.0429	.49749
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51433**	**.52035**	**24.938**	**25.616**	**.50271**
Stddev	.00026	.00032	.079	.076	.00194
%RSD	.05146	.06221	.31817	.29738	.38638
#1	.51414	.52057	24.994	25.670	.50408
#2	.51452	.52012	24.882	25.562	.50134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:55:44 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.534**	**.52298**	**.50540**	**25.272**	**.50560**
Stddev	.056	.00136	.00009	.098	.00086
%RSD	.21865	.26031	.01702	.38855	.17070
#1	25.494	.52202	.50546	25.342	.50499
#2	25.573	.52395	.50534	25.203	.50621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50004**	**24.964**	**.50414**	**.50711**	**24.492**
Stddev	.00021	.004	.00088	.00071	.121
%RSD	.04153	.01749	.17506	.13906	.49449
#1	.50018	24.961	.50476	.50661	24.577
#2	.49989	24.967	.50351	.50761	24.406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51072**	**.49892**	**.50654**	**.50598**	**.50789**
Stddev	.00063	.00247	.00048	.00176	.00091
%RSD	.12273	.49564	.09408	.34718	.17896
#1	.51028	.50067	.50688	.50474	.50853
#2	.51116	.49717	.50620	.50722	.50725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 11:55:44 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51203
Stddev	.00282
%RSD	.55097
#1	.51004
#2	.51403
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3395.1	2371.4	16613.	3191.2
Stddev	1.3	.5	12.	16.6
%RSD	.03870	.02239	.07018	.52104
#1	3394.1	2371.8	16605.	3179.5
#2	3396.0	2371.1	16621.	3203.0

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:58:56 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00414**	**-.00008**	**.00102**	**.00002**
Stddev	.00148	.00342	.00061	.00009	.00002
%RSD	358.25	82.474	789.79	8.3937	120.56
#1	-.00146	.00656	-.00051	.00108	.00000
#2	.00063	.00173	.00035	.00096	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00417**	**.00001**	**-.0072**	**-.00008**
Stddev	.00011	.00246	.00012	.0055	.00000
%RSD	344.49	59.081	855.81	76.44	4.2449
#1	-.00004	.00243	-.00007	-.0111	-.00008
#2	.00011	.00591	.00010	-.0033	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00040**	**.00095**	**.04333**	**-.00245**
Stddev	.00052	.00063	.00140	.02408	.00004
%RSD	110.57	157.10	146.90	55.575	1.7451
#1	.00010	.00004	.00194	.02630	-.00248
#2	.00084	-.00085	-.00004	.06036	-.00242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:58:56 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00245**	**-.00000**	**.00004**	**.01944**	**-.00008**
Stddev	.00132	.00016	.00006	.00206	.00005
%RSD	54.000	5567.9	153.67	10.590	66.350
#1	.00339	-.00012	-.00000	.01798	-.00004
#2	.00151	.00011	.00008	.02089	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00169**	**.00027**	**.00271**	**.01679**
Stddev	.00095	.00071	.00068	.00234	.00572
%RSD	178.08	42.144	252.97	86.476	34.052
#1	-.00121	.00220	-.00021	.00436	.01275
#2	.00014	.00119	.00074	.00105	.02084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00006**	**.00006**	**-.00017**	**-.00012**
Stddev	.00003	.00001	.00060	.00075	.00032
%RSD	6.1626	23.445	1086.3	446.98	259.79
#1	-.00046	.00005	.00048	-.00070	-.00035
#2	-.00050	.00007	-.00037	.00036	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 11:58:56 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00033**
Stddev	.00060
%RSD	182.31
#1	-.00010
#2	.00076
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3727.6**	**2400.0**	**17157.**	**3177.3**
Stddev	7.6	4.5	8.	1.3
%RSD	.20407	.18686	.04464	.04011
#1	3733.0	2403.2	17162.	3178.2
#2	3722.2	2396.8	17151.	3176.4

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:02:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00610**	**.20995**	**.01612**	**.02067**	**.00208**
Stddev	.00002	.00999	.00002	.00037	.00001
%RSD	.40378	4.7583	.09572	1.7899	.28548
#1	.00608	.21702	.01613	.02041	.00208
#2	.00612	.20289	.01611	.02094	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.50575**	**.00205**	**-.0177**	**.00375**
Stddev	.00001	.00052	.00006	.0332	.00009
%RSD	.45212	.10233	3.1276	188.1	2.4612
#1	.00204	.50612	.00201	-.0412	.00382
#2	.00206	.50538	.00210	.0058	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00454**	**.01069**	**.04945**	**.53887**	**.02838**
Stddev	.00016	.00058	.00294	.00611	.00155
%RSD	3.5235	5.4050	5.9429	1.1337	5.4774
#1	.00443	.01110	.04737	.54319	.02948
#2	.00465	.01028	.05153	.53455	.02728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:02:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20713**	**.00318**	**.00994**	**1.0060**	**.00936**
Stddev	.00222	.00002	.00020	.0006	.00019
%RSD	1.0733	.53647	2.0269	.06185	2.0704
#1	.20556	.00319	.01009	1.0064	.00922
#2	.20871	.00316	.00980	1.0055	.00949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01036**	**.19000**	**.02078**	**.02607**	**.50780**
Stddev	.00000	.00201	.00149	.00292	.00235
%RSD	.02676	1.0573	7.1889	11.208	.46245
#1	.01036	.18858	.02184	.02400	.50946
#2	.01036	.19142	.01972	.02813	.50614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00942**	**.00489**	**.00456**	**.02134**	**.00506**
Stddev	.00030	.00005	.00002	.00095	.00007
%RSD	3.1987	1.0603	.35146	4.4569	1.4266
#1	.00963	.00485	.00457	.02202	.00511
#2	.00921	.00493	.00455	.02067	.00501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:02:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01042
Stddev	.00018
%RSD	1.7096
#1	.01030
#2	.01055
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3746.2	2423.7	17217.	3227.1
Stddev	4.9	2.2	4.	6.6
%RSD	.13191	.09136	.02596	.20403
#1	3742.7	2425.3	17214.	3222.4
#2	3749.7	2422.1	17220.	3231.7

Sample Name: lb 480-368350/1-b Acquired: 7/26/2017 12:05:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	F **.22215**	**.00167**	**.04896**	**.02837**
Stddev	.00132	.00367	.00444	.00008	.00007
%RSD	149840.	1.6514	265.98	.16111	.26224
#1	-.00093	.22474	.00480	.04901	.02831
#2	.00093	.21955	-.00147	.04890	.02842
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000			
Low Limit		-.20000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.77475**	**-.00006**	**-.0142**	**-.00050**
Stddev	.00005	.00538	.00017	.0471	.00017
%RSD	155.00	.69471	288.90	333.0	33.781
#1	-.00000	.77094	-.00018	.0192	-.00062
#2	.00006	.77855	.00006	-.0475	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00320**	**.00485**	**.01230**	**.72207**	**-.00050**
Stddev	.00046	.00093	.00151	.00537	.00082
%RSD	14.236	19.096	12.281	.74360	163.85
#1	.00352	.00419	.01124	.71828	-.00107
#2	.00288	.00550	.01337	.72587	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lb 480-368350/1-b Acquired: 7/26/2017 12:05:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06700**	**.00263**	**.00524**	F **1519.7**	**.00012**
Stddev	.00113	.00006	.00019	1.4	.00009
%RSD	1.6931	2.3211	3.5454	.09190	70.940
#1	.06620	.00267	.00537	1518.7	.00006
#2	.06781	.00259	.00511	1520.7	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00235**	**.02316**	**.00207**	**.00284**	**.05173**
Stddev	.00160	.00534	.00029	.00122	.00193
%RSD	67.921	23.069	14.071	43.125	3.7239
#1	.00348	.01938	.00186	.00197	.05036
#2	.00122	.02693	.00227	.00370	.05309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.00381**	**.00005**	**-.00132**	**.00029**
Stddev	.00025	.00002	.00054	.00067	.00042
%RSD	14.368	.63051	1041.5	50.666	146.62
#1	.00191	.00382	.00043	-.00085	-.00001
#2	.00156	.00379	-.00033	-.00179	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lb 480-368350/1-b Acquired: 7/26/2017 12:05:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00697
Stddev	.00034
%RSD	4.9445
#1	.00672
#2	.00721
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2806.8	2155.1	14916.	3125.9
Stddev	4.7	2.7	17.	16.6
%RSD	.16761	.12461	.11148	.52958
#1	2803.5	2153.2	14928.	3137.6
#2	2810.2	2157.0	14904.	3114.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.275%	89.419%	86.567%	98.147%
Range				

Sample Name: mb 480-368572/2-a Acquired: 7/26/2017 12:09:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.03785**	**.00041**	**.00320**	**.00010**
Stddev	.00106	.01934	.00022	.00008	.00001
%RSD	343.59	51.087	53.435	2.3676	7.1758
#1	.00044	.02418	.00057	.00325	.00009
#2	-.00106	.05152	.00026	.00314	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.01388**	**.00008**	**-.0080**	**-.00008**
Stddev	.00004	.00172	.00003	.0082	.00005
%RSD	65.034	12.385	39.509	103.0	57.069
#1	.00009	.01266	.00006	-.0138	-.00005
#2	.00003	.01509	.00010	-.0022	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00078**	**.00086**	**.07433**	**-.00083**
Stddev	.00030	.00029	.00136	.00153	.00216
%RSD	52.074	36.955	158.24	2.0527	259.29
#1	.00036	.00098	-.00010	.07541	.00070
#2	.00079	.00057	.00182	.07325	-.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368572/2-a Acquired: 7/26/2017 12:09:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00188**	**.00042**	**-.00006**	**.15836**	**.00006**
Stddev	.00083	.00011	.00004	.00645	.00027
%RSD	44.108	26.309	68.326	4.0727	462.39
#1	-.00129	.00034	-.00009	.16292	.00025
#2	-.00247	.00049	-.00003	.15380	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00163**	**.00046**	**.00280**	**.18030**
Stddev	.00130	.00257	.00066	.00261	.01141
%RSD	637.66	158.09	144.12	93.026	6.3301
#1	.00071	-.00019	.00092	.00096	.17223
#2	-.00112	.00345	-.00001	.00465	.18838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00007**	**.00051**	**.00059**	**.00004**
Stddev	.00010	.00013	.00022	.00006	.00005
%RSD	21.599	192.28	42.542	9.7020	125.52
#1	-.00040	.00016	.00066	.00063	.00000
#2	-.00055	-.00002	.00036	.00055	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368572/2-a Acquired: 7/26/2017 12:09:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00090
Stddev	.00060
%RSD	67.404
#1	.00132
#2	.00047
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3799.0	2442.4	17379.	3260.4
Stddev	3.8	1.3	77.	8.6
%RSD	.09885	.05427	.44130	.26356
#1	3801.7	2443.4	17433.	3266.5
#2	3796.4	2441.5	17325.	3254.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.88%	101.34%	100.86%	102.37%
Range				

Sample Name: lcs 480-368572/3-a Acquired: 7/26/2017 12:12:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0441**	**.03006**	**1.0712**	**.03548**	**1.0013**
Stddev	.0042	.01317	.0003	.00030	.0018
%RSD	.40583	43.799	.02296	.85050	.17788
#1	1.0471	.03937	1.0710	.03527	1.00000
#2	1.0411	.02075	1.0714	.03570	1.0025
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0074**	**.63415**	**1.0804**	**-.0128**	**1.0246**
Stddev	.0011	.00584	.0006	.0099	.0019
%RSD	.11000	.92071	.05274	77.30	.19068
#1	1.0066	.63002	1.0800	-.0198	1.0232
#2	1.0081	.63828	1.0808	-.0058	1.0260
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0235**	**1.0153**	**.00865**	**.59115**	**-.00139**
Stddev	.0072	.0014	.00129	.03280	.00049
%RSD	.70107	.13986	14.889	5.5493	35.068
#1	1.0286	1.0143	.00774	.56795	-.00174
#2	1.0184	1.0163	.00956	.61434	-.00105
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: lcs 480-368572/3-a Acquired: 7/26/2017 12:12:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04071**	**1.0110**	**.96959**	**1451.0**	**1.0404**
Stddev	.00092	.0034	.00026	.2	.0031
%RSD	2.2539	.33924	.02700	.01552	.29329
#1	.04135	1.0134	.96977	1450.9	1.0383
#2	.04006	1.0086	.96940	1451.2	1.0426
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0417**	**.01869**	**.99593**	**1.0730**	**.18022**
Stddev	.0026	.00150	.00060	.0074	.00411
%RSD	.24790	8.0332	.05986	.68598	2.2816
#1	1.0399	.01763	.99551	1.0782	.18313
#2	1.0435	.01975	.99635	1.0678	.17731
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**.95863**	**-.00003**	**.95074**	**1.0130**
Stddev	.00003	.00195	.00032	.00109	.0042
%RSD	1.3929	.20293	926.86	.11491	.41850
#1	.00213	.95726	-.00026	.95151	1.0160
#2	.00217	.96001	.00019	.94997	1.0100
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368572/3-a Acquired: 7/26/2017 12:12:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0922
Stddev	.0049
%RSD	.44702
#1	1.0957
#2	1.0888
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2805.5	2158.7	14868.	3130.5
Stddev	5.8	4.8	81.	5.4
%RSD	.20779	.22036	.54224	.17214
#1	2809.6	2162.1	14811.	3134.3
#2	2801.4	2155.4	14925.	3126.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.239%	89.570%	86.290%	98.290%
Range				

Sample Name: 480-121205-a-2-f Acquired: 7/26/2017 12:16:22 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.48857**	**.00626**	**.05992**	**.23418**
Stddev	.00032	.02761	.00015	.00003	.00005
%RSD	55.460	5.6504	2.3310	.05176	.01961
#1	-.00079	.50809	.00616	.05989	.23415
#2	-.00035	.46905	.00637	.05994	.23422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**64.909**	**.00224**	**-.0047**	**.01572**
Stddev	.00001	.199	.00021	.0098	.00017
%RSD	3.0531	.30721	9.3681	210.1	1.0996
#1	.00045	64.768	.00239	-.0116	.01585
#2	.00047	65.050	.00209	.0023	.01560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.02441**	**.22134**	**5.5231**	**.00206**
Stddev	.00031	.00028	.00150	.0382	.00123
%RSD	16.511	1.1557	.67681	.69118	59.674
#1	.00210	.02461	.22028	5.4961	.00293
#2	.00166	.02421	.22240	5.5501	.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121205-a-2-f Acquired: 7/26/2017 12:16:22 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0794**	**1.0082**	**.00106**	**1535.6**	**.01428**
Stddev	.0056	.0009	.00020	7.3	.00044
%RSD	.52248	.09259	19.403	.47491	3.0634
#1	1.0755	1.0076	.00120	1530.5	.01459
#2	1.0834	1.0089	.00091	1540.8	.01397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15457**	**1.8048**	**.00208**	**.00162**	**1.3371**
Stddev	.00060	.0003	.00101	.00305	.0045
%RSD	.38781	.01498	48.455	189.05	.33978
#1	.15499	1.8050	.00137	-.00054	1.3339
#2	.15414	1.8046	.00279	.00377	1.3403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.12725**	**.00035**	**-.00193**	**.00091**
Stddev	.00007	.00036	.00001	.00040	.00034
%RSD	16.610	.28449	2.1510	20.453	37.010
#1	.00045	.12700	.00036	-.00165	.00067
#2	.00035	.12751	.00035	-.00221	.00114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121205-a-2-f Acquired: 7/26/2017 12:16:22 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.12996
Stddev	.00123
%RSD	.94851
#1	.12909
#2	.13083
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2749.9	2141.2	14846.	3131.0
Stddev	3.9	3.6	60.	4.1
%RSD	.14111	.16877	.40747	.13121
#1	2747.1	2138.6	14888.	3133.9
#2	2752.6	2143.8	14803.	3128.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.748%	88.842%	86.159%	98.307%
Range				

Sample Name: 480-121205-a-5-d Acquired: 7/26/2017 12:19:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.50582**	**.00605**	**.03082**	**.22991**
Stddev	.00093	.00523	.00011	.00034	.00014
%RSD	1003.4	1.0336	1.8877	1.1068	.06271
#1	.00056	.50951	.00613	.03106	.22981
#2	-.00075	.50212	.00597	.03058	.23002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**75.419**	**.00212**	**-.0353**	**.01601**
Stddev	.00001	.431	.00012	.0180	.00012
%RSD	2.3572	.57169	5.8784	51.08	.73211
#1	.00036	75.114	.00221	-.0225	.01593
#2	.00035	75.723	.00203	-.0480	.01610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**.00410**	**.34566**	**4.0765**	**-.00071**
Stddev	.00044	.00109	.00316	.0643	.00083
%RSD	19.185	26.507	.91416	1.5760	116.22
#1	.00200	.00487	.34342	4.0311	-.00130
#2	.00263	.00333	.34789	4.1219	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121205-a-5-d Acquired: 7/26/2017 12:19:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94329**	**.84518**	**.00112**	**1461.7**	**.01291**
Stddev	.00847	.00049	.00026	9.0	.00021
%RSD	.89839	.05772	22.882	.61693	1.6459
#1	.93730	.84483	.00130	1455.3	.01306
#2	.94928	.84552	.00094	1468.1	.01276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34817**	**2.3883**	**.00167**	**.00744**	**1.2585**
Stddev	.00090	.0020	.00001	.00065	.0089
%RSD	.25794	.08307	.50439	8.7086	.70874
#1	.34753	2.3869	.00168	.00699	1.2648
#2	.34880	2.3897	.00167	.00790	1.2522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**.09873**	**.00055**	**-.00193**	**.00114**
Stddev	.00022	.00047	.00007	.00154	.00013
%RSD	18.804	.47999	12.019	79.483	11.730
#1	.00132	.09839	.00050	-.00302	.00123
#2	.00101	.09906	.00059	-.00085	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121205-a-5-d Acquired: 7/26/2017 12:19:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.07113**
Stddev	.00004
%RSD	.04991
#1	.07115
#2	.07110
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2753.9**	**2142.0**	**14850.**	**3155.8**
Stddev	5.2	5.2	10.	23.9
%RSD	.18977	.24389	.06515	.75822
#1	2757.6	2145.7	14856.	3172.7
#2	2750.2	2138.3	14843.	3138.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.857%	88.875%	86.181%	99.084%
Range				

Sample Name: 480-121365-a-2-b Acquired: 7/26/2017 12:23:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.31692**	**.05899**	**1.4065**	**.05841**
Stddev	.00151	.01307	.00142	.0017	.00003
%RSD	394.78	4.1236	2.4096	.12353	.04856
#1	-.00145	.32616	.05799	1.4078	.05839
#2	.00068	.30768	.06000	1.4053	.05843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**77.741**	**.00286**	**-.0314**	**.00002**
Stddev	.00009	.287	.00009	.0236	.00010
%RSD	165.93	.36922	3.0508	75.03	525.01
#1	.00011	77.944	.00292	-.0481	.00009
#2	-.00001	77.538	.00280	-.0148	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00437**	**-.00039**	**.08199**	**1.8690**	**-.00224**
Stddev	.00083	.00034	.00183	.0313	.00009
%RSD	19.002	87.225	2.2323	1.6770	4.0262
#1	.00495	-.00015	.08070	1.8468	-.00230
#2	.00378	-.00064	.08329	1.8912	-.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-a-2-b Acquired: 7/26/2017 12:23:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1355**	**.20617**	**.64543**	**1460.4**	**.01890**
Stddev	.0016	.00064	.00088	1.3	.00028
%RSD	.13753	.30981	.13637	.08608	1.4857
#1	1.1344	.20572	.64605	1459.5	.01870
#2	1.1366	.20662	.64480	1461.3	.01910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00270**	**13.166**	**.00046**	**.00591**	**.21499**
Stddev	.00085	.028	.00244	.00043	.00174
%RSD	31.426	.20922	525.67	7.3089	.81060
#1	.00330	13.186	-.00126	.00622	.21376
#2	.00210	13.147	.00219	.00561	.21622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.05912**	**-.00050**	**-.00100**	**.00002**
Stddev	.00059	.00002	.00050	.00073	.00016
%RSD	70.698	.03587	98.539	73.179	980.90
#1	.00125	.05911	-.00015	-.00048	-.00010
#2	.00042	.05914	-.00085	-.00152	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-a-2-b Acquired: 7/26/2017 12:23:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **23.642**
Stddev	.194
%RSD	.81861
#1	23.505
#2	23.779
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2791.8**	**2154.6**	**15076.**	**3193.8**
Stddev	6.9	1.3	49.	11.0
%RSD	.24687	.06123	.32543	.34545
#1	2796.6	2155.5	15111.	3186.0
#2	2786.9	2153.7	15042.	3201.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.871%	89.399%	87.497%	100.28%
Range				

Sample Name: 480-121365-a-3-b Acquired: 7/26/2017 12:26:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00128**	**.14150**	**.72894**	**.15486**	**.10529**
Stddev	.00016	.01033	.00003	.00005	.00014
%RSD	12.612	7.2973	.00355	.03331	.12992
#1	-.00140	.13420	.72892	.15482	.10519
#2	-.00117	.14880	.72896	.15490	.10538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**11.895**	**-.00016**	**.0088**	**.08142**
Stddev	.00007	.130	.00001	.0066	.00008
%RSD	10.862	1.0951	8.4632	75.16	.09465
#1	.00066	11.987	-.00015	.0041	.08147
#2	.00057	11.803	-.00017	.0135	.08136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00439**	**.00942**	**.26112**	**1.0221**	**.00372**
Stddev	.00043	.00035	.00186	.0053	.00002
%RSD	9.8496	3.7663	.71395	.51668	.61030
#1	.00470	.00917	.26244	1.0258	.00371
#2	.00409	.00967	.25980	1.0183	.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-a-3-b Acquired: 7/26/2017 12:26:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1467**	**.04032**	**.01060**	**1399.5**	**.00572**
Stddev	.0112	.00002	.00006	15.1	.00023
%RSD	.52063	.03975	.61288	1.0791	4.0543
#1	2.1388	.04031	.01055	1410.2	.00555
#2	2.1546	.04033	.01065	1388.8	.00588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00974**	**14.089**	**-.00011**	**.00380**	**24.813**
Stddev	.00097	.044	.00120	.00028	.687
%RSD	10.002	.31179	1088.1	7.3178	2.7706
#1	.01043	14.058	-.00096	.00360	25.299
#2	.00905	14.120	.00074	.00400	24.327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.23774**	**.00090**	**-.00081**	**.00127**
Stddev	.00084	.00184	.00006	.00004	.00017
%RSD	93.583	.77468	6.1298	4.8686	13.302
#1	.00030	.23904	.00086	-.00084	.00115
#2	.00149	.23643	.00094	-.00079	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-a-3-b Acquired: 7/26/2017 12:26:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02058
Stddev	.00040
%RSD	1.9271
#1	.02030
#2	.02087
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2832.1	2208.3	15160.	3193.5
Stddev	6.1	1.4	20.	44.8
%RSD	.21552	.06407	.13340	1.4036
#1	2827.7	2207.3	15174.	3161.8
#2	2836.4	2209.3	15146.	3225.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.952%	91.628%	87.983%	100.27%
Range				

Sample Name: 480-121389-a-2-b Acquired: 7/26/2017 12:30:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.31359**	**.00654**	**.10974**	**.38657**
Stddev	.00012	.00064	.00155	.00010	.00134
%RSD	20.613	.20375	23.655	.08917	.34676
#1	-.00052	.31404	.00545	.10967	.38562
#2	-.00069	.31313	.00764	.10981	.38752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**47.679**	**.01395**	**-.0108**	**.00259**
Stddev	.00012	.288	.00025	.0062	.00009
%RSD	95.335	.60374	1.8154	57.66	3.6142
#1	.00021	47.475	.01377	-.0152	.00266
#2	.00004	47.883	.01413	-.0064	.00252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00146**	**.02897**	**.20590**	**2.4936**	**.00597**
Stddev	.00050	.00031	.00196	.0495	.00093
%RSD	34.286	1.0859	.94967	1.9859	15.665
#1	.00111	.02875	.20452	2.4586	.00663
#2	.00181	.02920	.20728	2.5286	.00531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-b Acquired: 7/26/2017 12:30:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.808**	**.08203**	**.00201**	**1364.5**	**.01391**
Stddev	.035	.00050	.00019	8.5	.00028
%RSD	.18728	.60537	9.2868	.62163	2.0148
#1	18.783	.08168	.00188	1358.5	.01411
#2	18.833	.08238	.00214	1370.5	.01371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05764**	**3.4152**	**.00432**	**.00221**	**1.6021**
Stddev	.00071	.0070	.00049	.00234	.0252
%RSD	1.2361	.20425	11.386	105.77	1.5748
#1	.05713	3.4201	.00398	.00056	1.5843
#2	.05814	3.4103	.00467	.00386	1.6199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.09536**	**.00244**	**-.00127**	**.00584**
Stddev	.00010	.00021	.00006	.00097	.00041
%RSD	20.350	.21510	2.4343	76.224	7.0235
#1	.00058	.09521	.00248	-.00059	.00555
#2	.00043	.09550	.00240	-.00196	.00613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-b Acquired: 7/26/2017 12:30:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.7278**
Stddev	.0030
%RSD	.17241
#1	1.7299
#2	1.7257
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2794.4**	**2158.8**	**14925.**	**3125.5**
Stddev	4.5	7.3	40.	17.5
%RSD	.16234	.33668	.26929	.56134
#1	2797.6	2163.9	14953.	3137.9
#2	2791.2	2153.6	14897.	3113.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.942%	89.571%	86.619%	98.135%
Range				

Sample Name: 480-121389-a-2-bSD@5 Acquired: 7/26/2017 12:33:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.09739**	**.00012**	**.02217**	**.07392**
Stddev	.00098	.00549	.00128	.00020	.00007
%RSD	444.08	5.6353	1025.6	.91991	.09217
#1	-.00092	.09351	-.00078	.02231	.07387
#2	.00047	.10127	.00103	.02203	.07397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**9.1568**	**.00249**	**-.0381**	**.00034**
Stddev	.00002	.0302	.00012	.0025	.00020
%RSD	134.22	.33010	4.8608	6.565	59.148
#1	-.00003	9.1355	.00258	-.0364	.00048
#2	-.00000	9.1782	.00241	-.0399	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00588**	**.04073**	**.52177**	**.00101**
Stddev	.00022	.00106	.00153	.02608	.00053
%RSD	83.091	17.984	3.7546	4.9982	52.578
#1	.00041	.00513	.04182	.54021	.00139
#2	.00011	.00663	.03965	.50333	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-bSD@5 Acquired: 7/26/2017 12:33:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6149**	**.01518**	**.00023**	**257.87**	**.00247**
Stddev	.0202	.00013	.00018	.76	.00010
%RSD	.55745	.85796	78.568	.29566	4.2013
#1	3.6291	.01509	.00010	258.41	.00240
#2	3.6006	.01527	.00035	257.33	.00255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01049**	**.59425**	**.00266**	**.00052**	**.32924**
Stddev	.00072	.00381	.00295	.00124	.00280
%RSD	6.8329	.64053	110.94	236.62	.85124
#1	.00998	.59694	.00057	.00140	.33123
#2	.01099	.59155	.00475	-.00035	.32726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.01821**	**.00031**	**.00097**	**.00159**
Stddev	.00009	.00002	.00030	.00082	.00002
%RSD	30.383	.10414	97.245	84.721	1.0669
#1	.00037	.01822	.00052	.00039	.00161
#2	.00024	.01820	.00010	.00155	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-bSD@5 Acquired: 7/26/2017 12:33:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.32360**
Stddev	.00077
%RSD	.23761
#1	.32305
#2	.32414
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3202.1**	**2283.2**	**16092.**	**3128.4**
Stddev	1.1	2.8	51.	4.6
%RSD	.03499	.12281	.31905	.14615
#1	3202.9	2285.2	16129.	3125.1
#2	3201.3	2281.2	16056.	3131.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.875%	94.734%	93.394%	98.224%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 12:37:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49821**	**25.284**	**.49879**	**.51123**	**.50586**
Stddev	.00064	.041	.00072	.00038	.00033
%RSD	.12923	.16045	.14350	.07469	.06579
#1	.49775	25.313	.49930	.51096	.50610
#2	.49866	25.256	.49829	.51150	.50563
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51426**	**25.205**	**.50873**	**-.0526**	**.49850**
Stddev	.00249	.105	.00027	.0062	.00091
%RSD	.48365	.41818	.05359	11.72	.18246
#1	.51601	25.279	.50853	-.0482	.49914
#2	.51250	25.130	.50892	-.0569	.49785
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51174**	**.52092**	**24.831**	**25.564**	**.50374**
Stddev	.00054	.00360	.113	.222	.00218
%RSD	.10578	.69168	.45342	.87011	.43187
#1	.51212	.51837	24.910	25.721	.50528
#2	.51135	.52346	24.751	25.407	.50220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 12:37:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.551**	**.52233**	**.50475**	**25.221**	**.50614**
Stddev	.044	.00050	.00004	.118	.00060
%RSD	.17372	.09614	.00780	.46648	.11819
#1	25.583	.52197	.50472	25.304	.50657
#2	25.520	.52268	.50477	25.137	.50572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50153**	**25.011**	**.50555**	**.50223**	**24.588**
Stddev	.00217	.012	.00186	.00128	.010
%RSD	.43357	.04889	.36772	.25564	.04011
#1	.50306	25.020	.50423	.50132	24.581
#2	.49999	25.002	.50686	.50314	24.595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50922**	**.49817**	**.50461**	**.50430**	**.50756**
Stddev	.00069	.00104	.00258	.00010	.00103
%RSD	.13535	.20894	.51043	.01926	.20202
#1	.50971	.49890	.50643	.50423	.50829
#2	.50874	.49743	.50278	.50437	.50684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 12:37:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50747**
Stddev	.00001
%RSD	.00144
#1	.50746
#2	.50747
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3382.0**	**2359.9**	**16596.**	**3170.8**
Stddev	5.3	3.4	49.	18.3
%RSD	.15803	.14421	.29516	.57849
#1	3378.2	2357.5	16631.	3157.8
#2	3385.8	2362.3	16561.	3183.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 12:40:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.01173**	**.00015**	**.00117**	**.00003**
Stddev	.00012	.00598	.00007	.00018	.00001
%RSD	30.916	50.984	50.686	15.627	35.419
#1	-.00046	-.00750	.00020	.00104	.00002
#2	-.00029	-.01596	.00009	.00130	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00099**	**-.00008**	**-.0140**	**-.00010**
Stddev	.00002	.00072	.00000	.0137	.00008
%RSD	124.87	72.726	.37246	97.62	82.530
#1	.00004	.00048	-.00008	-.0237	-.00015
#2	.00000	.00149	-.00008	-.0043	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00083**	**.00193**	**.01427**	**-.00105**
Stddev	.00009	.00100	.00068	.00503	.00147
%RSD	3514.4	120.54	35.360	35.260	140.19
#1	-.00006	.00154	.00145	.01783	-.00001
#2	.00006	.00012	.00241	.01071	-.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 12:40:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00462**	**.00004**	**.00020**	**.10855**	**-.00008**
Stddev	.00098	.00002	.00005	.00592	.00033
%RSD	21.136	46.613	23.592	5.4510	385.74
#1	.00393	.00005	.00024	.11273	.00015
#2	.00531	.00003	.00017	.10436	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00077**	**-.00007**	**.00385**	**.02287**
Stddev	.00072	.00061	.00043	.00526	.00820
%RSD	166.16	79.338	625.54	136.78	35.863
#1	-.00008	.00034	-.00037	.00013	.01707
#2	.00094	.00121	.00023	.00757	.02867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00001**	**.00053**	**.00022**	**.00020**
Stddev	.00045	.00010	.00035	.00074	.00033
%RSD	222.49	1683.4	65.623	341.23	168.38
#1	.00012	.00007	.00077	-.00031	.00043
#2	-.00052	-.00008	.00028	.00074	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 12:40:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00074
Stddev	.00004
%RSD	5.7178
#1	.00071
#2	.00077
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3709.1	2391.4	17026.	3156.6
Stddev	3.5	2.6	15.	7.4
%RSD	.09524	.10769	.08742	.23445
#1	3711.6	2389.6	17015.	3161.8
#2	3706.6	2393.3	17036.	3151.3

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:44:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00580**	**.20482**	**.01504**	**.02089**	**.00212**
Stddev	.00016	.02230	.00017	.00017	.00000
%RSD	2.7441	10.888	1.1463	.81766	.05937
#1	.00568	.18905	.01492	.02077	.00212
#2	.00591	.22059	.01516	.02101	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.50581**	**.00204**	**-.0175**	**.00393**
Stddev	.00002	.00030	.00000	.0016	.00009
%RSD	.83499	.05973	.10339	9.247	2.3598
#1	.00204	.50602	.00204	-.0164	.00400
#2	.00202	.50560	.00204	-.0187	.00387
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00420**	**.01147**	**.05089**	**.53724**	**.02871**
Stddev	.00038	.00027	.00119	.02341	.00014
%RSD	8.9676	2.3610	2.3328	4.3570	.49181
#1	.00447	.01166	.05173	.52069	.02861
#2	.00393	.01128	.05005	.55379	.02881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:44:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20757**	**.00308**	**.01015**	**1.0898**	**.00964**
Stddev	.00122	.00011	.00035	.0090	.00012
%RSD	.58839	3.6572	3.4081	.82406	1.1994
#1	.20671	.00315	.01039	1.0834	.00956
#2	.20844	.00300	.00990	1.0961	.00972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01018**	**.19420**	**.01959**	**.02418**	**.49677**
Stddev	.00112	.00110	.00012	.00182	.00371
%RSD	11.020	.56423	.62994	7.5159	.74641
#1	.01098	.19497	.01967	.02289	.49940
#2	.00939	.19342	.01950	.02546	.49415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00947**	**.00494**	**.00447**	**.02094**	**.00493**
Stddev	.00056	.00007	.00010	.00067	.00030
%RSD	5.9260	1.3920	2.1541	3.1813	6.0547
#1	.00986	.00498	.00454	.02142	.00471
#2	.00907	.00489	.00440	.02047	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 12:44:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01111
Stddev	.00008
%RSD	.69514
#1	.01117
#2	.01106
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3734.7	2415.2	17272.	3186.6
Stddev	1.6	1.5	19.	24.2
%RSD	.04163	.06097	.10883	.76076
#1	3733.6	2414.2	17285.	3169.5
#2	3735.8	2416.3	17259.	3203.8

Sample Name: 480-121389-a-2-b PDS Acquired: 7/26/2017 12:47:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0236**	**.35757**	**1.0922**	**.12627**	**1.4610**
Stddev	.0028	.00785	.0054	.00040	.0017
%RSD	.27728	2.1950	.49757	.31472	.11620
#1	1.0256	.36312	1.0960	.12655	1.4622
#2	1.0216	.35202	1.0883	.12599	1.4598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0129**	**55.777**	**1.0951**	**-.0584**	**1.0325**
Stddev	.0003	.074	.0012	.0117	.0008
%RSD	.03090	.13346	.10791	20.09	.07525
#1	1.0127	55.829	1.0959	-.0667	1.0331
#2	1.0132	55.724	1.0943	-.0501	1.0320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0219**	**1.0710**	**.23661**	**2.7952**	**.00986**
Stddev	.0026	.0012	.00433	.0010	.00097
%RSD	.25650	.11199	1.8308	.03462	9.8869
#1	1.0237	1.0701	.23354	2.7959	.01055
#2	1.0200	1.0718	.23967	2.7945	.00917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-b PDS Acquired: 7/26/2017 12:47:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.855**	**1.0916**	**.98346**	**1597.8**	**1.0643**
Stddev	.007	.0029	.00193	.3	.0013
%RSD	.03334	.26608	.19588	.01597	.12228
#1	21.860	1.0936	.98482	1598.0	1.0634
#2	21.850	1.0895	.98210	1597.6	1.0653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1200**	**3.9974**	**1.0321**	**1.0828**	**1.7576**
Stddev	.0024	.0073	.0028	.0007	.0123
%RSD	.21434	.18191	.26972	.06661	.70079
#1	1.1183	4.0025	1.0341	1.0833	1.7663
#2	1.1217	3.9923	1.0302	1.0823	1.7489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.11169**	**.00392**	**.96092**	**1.0303**
Stddev	.00052	.00029	.00154	.00026	.0039
%RSD	198.79	.26385	39.171	.02752	.37841
#1	.00063	.11148	.00501	.96073	1.0331
#2	-.00011	.11190	.00283	.96110	1.0275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-b PDS Acquired: 7/26/2017 12:47:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**3.0812**
Stddev	.0084
%RSD	.27161
#1	3.0871
#2	3.0752
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2726.3**	**2123.4**	**14713.**	**3105.7**
Stddev	5.7	2.9	91.	3.9
%RSD	.20982	.13602	.61693	.12544
#1	2730.4	2125.5	14649.	3108.5
#2	2722.3	2121.4	14777.	3102.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.116%	88.105%	85.390%	97.512%
Range				

Sample Name: 480-121389-a-2-c ms Acquired: 7/26/2017 12:50:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0189**	**.28384**	**1.0527**	**.10402**	**1.3430**
Stddev	.0073	.01377	.0003	.00014	.0050
%RSD	.72006	4.8531	.03147	.13333	.37323
#1	1.0137	.29358	1.0530	.10392	1.3394
#2	1.0241	.27410	1.0525	.10411	1.3465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99882**	**45.898**	**1.0694**	**-.0407**	**1.0074**
Stddev	.00154	.108	.0017	.0162	.0005
%RSD	.15410	.23481	.15881	39.80	.05143
#1	.99773	45.821	1.0706	-.0292	1.0078
#2	.99991	45.974	1.0682	-.0521	1.0071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99869**	**1.0277**	**.19062**	**2.4103**	**.00642**
Stddev	.00651	.0002	.00195	.0621	.00132
%RSD	.65220	.02171	1.0219	2.5780	20.556
#1	.99408	1.0278	.18924	2.3664	.00549
#2	1.0033	1.0275	.19200	2.4542	.00735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-c ms Acquired: 7/26/2017 12:50:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.206**	**1.0636**	**.95138**	**1311.8**	**1.0321**
Stddev	.065	.0029	.00015	4.6	.0024
%RSD	.35601	.27634	.01552	.34814	.23599
#1	18.160	1.0615	.95127	1308.6	1.0338
#2	18.252	1.0657	.95148	1315.1	1.0303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0808**	**3.2975**	**.98363**	**1.0555**	**1.4378**
Stddev	.0020	.0083	.00427	.0036	.0006
%RSD	.18151	.25324	.43431	.33634	.04377
#1	1.0794	3.3034	.98665	1.0530	1.4373
#2	1.0822	3.2916	.98061	1.0580	1.4382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**1.0323**	**.00269**	**.93538**	**1.0035**
Stddev	.00020	.0013	.00029	.00195	.0065
%RSD	21.795	.12422	10.729	.20876	.64504
#1	.00078	1.0332	.00249	.93400	.99897
#2	.00106	1.0313	.00290	.93676	1.0081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-c ms Acquired: 7/26/2017 12:50:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.7144**
Stddev	.0186
%RSD	.68340
#1	2.7012
#2	2.7275
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2800.7**	**2163.1**	**14919.**	**3162.5**
Stddev	1.9	4.0	116.	17.6
%RSD	.06759	.18551	.78056	.55737
#1	2799.4	2160.3	15002.	3175.0
#2	2802.1	2165.9	14837.	3150.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.111%	89.751%	86.586%	99.296%
Range				

Sample Name: 480-121389-a-2-d msd Acquired: 7/26/2017 12:54:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0763**	**.30475**	**1.1095**	**.10835**	**1.4267**
Stddev	.0055	.01564	.0018	.00028	.0041
%RSD	.51328	5.1311	.16284	.25926	.28926
#1	1.0802	.29369	1.1108	.10816	1.4296
#2	1.0724	.31580	1.1083	.10855	1.4238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0618**	**48.628**	**1.1242**	**-.0647**	**1.0593**
Stddev	.0003	.000	.0022	.0253	.0004
%RSD	.02328	.00052	.19801	39.10	.04206
#1	1.0616	48.627	1.1258	-.0826	1.0596
#2	1.0620	48.628	1.1226	-.0468	1.0590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0495**	**1.0812**	**.20757**	**2.5310**	**.00601**
Stddev	.0044	.0012	.00410	.0368	.00095
%RSD	.42106	.10729	1.9767	1.4551	15.836
#1	1.0526	1.0804	.20467	2.5050	.00533
#2	1.0464	1.0820	.21047	2.5571	.00668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-d msd Acquired: 7/26/2017 12:54:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.057**	**1.1181**	**1.0016**	**1394.3**	**1.0837**
Stddev	.030	.0009	.0001	.7	.0003
%RSD	.15798	.08067	.01332	.05258	.02406
#1	19.036	1.1187	1.0015	1394.8	1.0835
#2	19.079	1.1175	1.0017	1393.8	1.0839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1365**	**3.4598**	**1.0381**	**1.1162**	**1.4845**
Stddev	.0000	.0150	.0027	.0033	.0012
%RSD	.00187	.43415	.26396	.29166	.07759
#1	1.1365	3.4704	1.0400	1.1139	1.4853
#2	1.1365	3.4491	1.0362	1.1185	1.4837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00092**	**1.0896**	**.00192**	**.98088**	**1.0548**
Stddev	.00028	.0021	.00001	.00374	.0049
%RSD	30.711	.18809	.68969	.38173	.46773
#1	.00112	1.0882	.00191	.98353	1.0583
#2	.00072	1.0911	.00193	.97823	1.0514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-a-2-d msd Acquired: 7/26/2017 12:54:20 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.8492**
Stddev	.0062
%RSD	.21653
#1	2.8536
#2	2.8449
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2762.7**	**2137.0**	**14785.**	**3081.5**
Stddev	5.1	4.7	8.	21.9
%RSD	.18471	.22152	.05335	.70957
#1	2759.0	2133.6	14790.	3096.9
#2	2766.3	2140.3	14779.	3066.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.090%	88.667%	85.804%	96.751%
Range				

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 12:57:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00404**	**.19880**	**.46916**	**7.3252**	**.62985**
Stddev	.00010	.00733	.00003	.0149	.00190
%RSD	2.5219	3.6882	.00552	.20358	.30113
#1	-.00411	.19362	.46914	7.3358	.62851
#2	-.00397	.20399	.46918	7.3147	.63119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**33.687**	**.03887**	**-.0230**	**.03545**
Stddev	.00005	.051	.00023	.0148	.00047
%RSD	252.38	.15129	.58015	64.17	1.3286
#1	-.00006	33.651	.03871	-.0335	.03512
#2	.00002	33.723	.03902	-.0126	.03578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24422**	**-.00537**	F **876.06**	**1.3083**	**.12299**
Stddev	.00081	.00165	1.88	.0140	.00047
%RSD	.33326	30.745	.21476	1.0665	.38375
#1	.24480	-.00654	874.73	1.2985	.12266
#2	.24364	-.00420	877.39	1.3182	.12333
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			540.00		
Low Limit			-.05000		

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 12:57:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0373**	**17.746**	**.03778**	**1457.2**	**.78942**
Stddev	.0097	.109	.00033	3.1	.00161
%RSD	.93015	.61180	.88205	.21595	.20405
#1	1.0305	17.670	.03801	1455.0	.78828
#2	1.0441	17.823	.03754	1459.5	.79056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98366**	**42.596**	**.02176**	**.00558**	**2.1222**
Stddev	.00237	.114	.00068	.00451	.0179
%RSD	.24058	.26712	3.1307	80.915	.84316
#1	.98199	42.677	.02128	.00877	2.1348
#2	.98534	42.516	.02224	.00239	2.1095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02407**	**.08979**	**.06087**	**-.01189**	**.04160**
Stddev	.00111	.00003	.00039	.00271	.00008
%RSD	4.6048	.03467	.64256	22.791	.20369
#1	.02329	.08977	.06115	-.00998	.04166
#2	.02486	.08981	.06059	-.01381	.04154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 12:57:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.0659**
Stddev	.0055
%RSD	.26672
#1	2.0620
#2	2.0698
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2623.0**	**2110.1**	**14571.**	**3074.6**
Stddev	.7	3.4	10.	6.6
%RSD	.02744	.16345	.06930	.21354
#1	2623.5	2107.7	14578.	3070.0
#2	2622.4	2112.6	14564.	3079.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.344%	87.553%	84.563%	96.536%
Range				

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 13:01:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00142**	**.06302**	**.08642**	**1.5080**	**.12583**
Stddev	.00060	.02142	.00133	.0018	.00015
%RSD	42.053	33.994	1.5373	.11808	.11787
#1	-.00100	.07817	.08548	1.5092	.12594
#2	-.00185	.04787	.08736	1.5067	.12573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**6.6168**	**.00755**	**-.0389**	**.00640**
Stddev	.00004	.0402	.00007	.0031	.00014
%RSD	1318.4	.60744	.89402	7.997	2.2303
#1	-.00003	6.6452	.00760	-.0411	.00650
#2	.00003	6.5884	.00750	-.0367	.00630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04753**	**-.00100**	**170.84**	**.25296**	**.02237**
Stddev	.00019	.00010	.82	.02138	.00134
%RSD	.39966	10.337	.47899	8.4503	6.0109
#1	.04740	-.00093	171.41	.26807	.02332
#2	.04767	-.00108	170.26	.23784	.02142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 13:01:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22146**	**3.2612**	**.00742**	**277.27**	**.14658**
Stddev	.00091	.0045	.00017	.16	.00014
%RSD	.40902	.13897	2.3003	.05879	.09486
#1	.22210	3.2579	.00730	277.39	.14648
#2	.22082	3.2644	.00754	277.16	.14668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18572**	**8.1515**	**.00479**	**.00224**	**.42491**
Stddev	.00072	.0041	.00143	.00207	.00741
%RSD	.38639	.05068	29.878	92.371	1.7431
#1	.18623	8.1486	.00378	.00078	.41968
#2	.18521	8.1544	.00581	.00370	.43015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00465**	**.01742**	**.01165**	**-.00082**	**.00778**
Stddev	.00052	.00002	.00028	.00093	.00057
%RSD	11.206	.12173	2.3657	113.38	7.2605
#1	.00428	.01743	.01146	-.00147	.00738
#2	.00502	.01740	.01185	-.00016	.00818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121438-a-1-d Acquired: 7/26/2017 13:01:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.40667**
Stddev	.00306
%RSD	.75360
#1	.40450
#2	.40884
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3155.6**	**2280.0**	**15929.**	**3171.5**
Stddev	3.2	3.1	18.	17.3
%RSD	.10088	.13799	.11446	.54438
#1	3153.3	2277.8	15942.	3159.3
#2	3157.8	2282.3	15916.	3183.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.627%	94.603%	92.445%	99.577%
Range				

Sample Name: BLANK Acquired: 7/26/2017 13:04:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.02516**	**-.00046**	**.01105**	**.00231**
Stddev	.00023	.02725	.00203	.00041	.00004
%RSD	34.616	108.29	444.20	3.7182	1.7609
#1	-.00083	.04443	-.00189	.01134	.00234
#2	-.00051	.00590	.00098	.01076	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.02177**	**.00088**	**-.0461**	**-.00050**
Stddev	.00006	.00014	.00009	.0007	.00000
%RSD	146.97	.62326	10.401	1.526	.15671
#1	.00000	.02168	.00095	-.0456	-.00050
#2	-.00009	.02187	.00082	-.0466	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00246**	**-.00001**	**.01147**	**.01523**	**-.00211**
Stddev	.00014	.00031	.00123	.04249	.00070
%RSD	5.7338	3091.2	10.678	279.10	33.207
#1	.00236	-.00023	.01061	.04527	-.00261
#2	.00256	.00021	.01234	-.01482	-.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:04:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00037**	**.00065**	**.15928**	**-.00059**
Stddev	.00393	.00001	.00023	.00677	.00019
%RSD	720.57	3.6228	35.032	4.2490	32.451
#1	-.00224	.00038	.00049	.15449	-.00072
#2	.00333	.00036	.00081	.16407	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00265**	**.00503**	**.00370**	**.00186**	**.27114**
Stddev	.00026	.00111	.00104	.00151	.00855
%RSD	9.8536	22.141	28.235	81.077	3.1522
#1	.00247	.00424	.00296	.00079	.26510
#2	.00284	.00582	.00444	.00292	.27719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00317**	**.00099**	**.00021**	**-.00341**	**.00020**
Stddev	.00041	.00016	.00043	.00069	.00017
%RSD	12.775	15.690	200.01	20.356	84.628
#1	.00346	.00111	.00051	-.00390	.00032
#2	.00289	.00088	-.00009	-.00292	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:04:49 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00285
Stddev	.00069
%RSD	24.062
#1	.00237
#2	.00334
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3502.5	2124.5	16051.	3086.5
Stddev	.6	3.7	145.	6.4
%RSD	.01849	.17474	.90067	.20619
#1	3502.9	2121.9	15949.	3091.0
#2	3502.0	2127.1	16153.	3082.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.931%	88.150%	93.155%	96.908%
Range				

Sample Name: lb 480-368302/1-b Acquired: 7/26/2017 13:08:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.01973**	**.00011**	**.01213**	**.00217**
Stddev	.00041	.00992	.00115	.00005	.00003
%RSD	29.512	50.276	1030.5	.43489	1.2487
#1	-.00110	.02675	-.00070	.01216	.00215
#2	-.00168	.01272	.00093	.01209	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.06284**	**.00008**	**-.0012**	**-.00012**
Stddev	.00004	.00118	.00003	.0015	.00014
%RSD	127.36	1.8756	40.635	120.1	113.29
#1	-.00000	.06368	.00006	-.0002	-.00022
#2	-.00007	.06201	.00010	-.0023	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00040**	**.00371**	**.01821**	**-.00071**
Stddev	.00048	.00018	.00024	.03653	.00057
%RSD	146.27	45.197	6.5317	200.67	80.573
#1	-.00001	.00053	.00388	-.00763	-.00111
#2	.00066	.00027	.00353	.04404	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lb 480-368302/1-b Acquired: 7/26/2017 13:08:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01463**	**.00046**	**-.00005**	**.45341**	**.00016**
Stddev	.00526	.00003	.00007	.00428	.00013
%RSD	35.977	6.4668	161.01	.94336	78.805
#1	.01835	.00048	.00001	.45039	.00025
#2	.01091	.00044	-.00010	.45644	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.02319**	**.00043**	**.00227**	**.05165**
Stddev	.00016	.00235	.00002	.00285	.00146
%RSD	27.222	10.113	4.1772	125.66	2.8171
#1	-.00047	.02485	.00042	.00429	.05268
#2	-.00070	.02153	.00045	.00025	.05063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00157**	**.00017**	**-.00015**	F **-.00057**
Stddev	.00045	.00002	.00017	.00053	.00038
%RSD	104.44	1.3037	104.65	360.33	66.633
#1	-.00074	.00155	.00029	.00023	-.00030
#2	-.00011	.00158	.00004	-.00052	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					.00500
Low Limit					-.00050

Sample Name: lb 480-368302/1-b Acquired: 7/26/2017 13:08:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00203
Stddev	.00075
%RSD	37.179
#1	.00256
#2	.00150
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3837.1	2474.2	17560.	3251.3
Stddev	9.4	6.3	104.	9.2
%RSD	.24539	.25369	.59113	.28268
#1	3843.8	2478.6	17634.	3244.8
#2	3830.5	2469.8	17487.	3257.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.91%	102.66%	101.91%	102.08%
Range				

Sample Name: mb 480-368367/2-a Acquired: 7/26/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.00424**	**.00114**	**.00495**	**.00698**
Stddev	.00008	.00186	.00212	.00014	.00002
%RSD	10.736	43.935	186.06	2.7665	.28617
#1	-.00071	-.00293	-.00036	.00505	.00699
#2	-.00083	-.00556	.00264	.00485	.00696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.05216**	**.00000**	**-.0373**	**-.00017**
Stddev	.00006	.00111	.00001	.0014	.00013
%RSD	3569.3	2.1303	2536.2	3.622	78.558
#1	-.00004	.05295	.00001	-.0383	-.00026
#2	.00004	.05137	-.00001	-.0363	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00032**	**.00425**	**.01273**	**.00058**
Stddev	.00036	.00002	.00006	.02079	.00098
%RSD	162.90	6.0041	1.4935	163.30	167.93
#1	.00048	.00031	.00429	-.00197	-.00011
#2	-.00003	.00034	.00421	.02743	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368367/2-a Acquired: 7/26/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00470**	**.00022**	**-.00014**	**.13183**	**-.00010**
Stddev	.00038	.00002	.00015	.00944	.00012
%RSD	8.0227	9.5972	111.80	7.1620	122.50
#1	.00497	.00021	-.00003	.13851	-.00001
#2	.00443	.00024	-.00024	.12516	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.01479**	**.00128**	**.00183**	**-.01580**
Stddev	.00033	.00060	.00062	.00022	.00178
%RSD	868.92	4.0753	48.647	12.283	11.245
#1	.00027	.01436	.00084	.00167	-.01706
#2	-.00019	.01522	.00173	.00199	-.01455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.00772**	**.00029**	**.00072**	**.00021**
Stddev	.00008	.00005	.00050	.00033	.00000
%RSD	12.730	.68212	172.65	45.911	2.1326
#1	-.00060	.00769	.00064	.00049	.00021
#2	-.00072	.00776	-.00006	.00095	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368367/2-a Acquired: 7/26/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00111
Stddev	.00028
%RSD	25.516
#1	.00131
#2	.00091
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3813.7	2461.6	17452.	3212.0
Stddev	7.0	1.5	156.	8.0
%RSD	.18284	.06231	.89129	.24992
#1	3818.6	2462.7	17562.	3206.3
#2	3808.8	2460.6	17342.	3217.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.28%	102.14%	101.29%	100.85%
Range				

Sample Name: lcs 480-368367/3-a Acquired: 7/26/2017 13:15:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97157**	**.01164**	**.96791**	**.01070**	**1.0085**
Stddev	.00410	.01877	.00525	.00050	.0029
%RSD	.42250	161.24	.54266	4.6749	.28406
#1	.97448	.02491	.96419	.01105	1.0065
#2	.96867	-.00163	.97162	.01034	1.0106
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0132**	**.07433**	**1.0145**	**-.0238**	**.93058**
Stddev	.0005	.00119	.0001	.0163	.00009
%RSD	.05275	1.5961	.01073	68.37	.00948
#1	1.0128	.07350	1.0145	-.0123	.93064
#2	1.0136	.07517	1.0146	-.0353	.93052
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0019**	**1.0439**	**.00340**	**-.02374**	**-.00119**
Stddev	.0102	.0011	.00136	.03363	.00180
%RSD	1.0209	.10938	39.937	141.63	151.02
#1	1.0091	1.0431	.00435	-.04752	-.00246
#2	.99466	1.0447	.00244	.00003	.00008
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: lcs 480-368367/3-a Acquired: 7/26/2017 13:15:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**1.0249**	**.98325**	**.45406**	**.95384**
Stddev	.00377	.0038	.00233	.00436	.00094
%RSD	284.12	.37137	.23685	.96011	.09838
#1	.00399	1.0276	.98160	.45098	.95450
#2	-.00134	1.0222	.98489	.45714	.95318
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98060**	**.02925**	**.98668**	**.97189**	**.05321**
Stddev	.00145	.00105	.00013	.00508	.00671
%RSD	.14780	3.6012	.01277	.52308	12.602
#1	.98163	.02999	.98659	.96830	.05795
#2	.97958	.02850	.98677	.97549	.04846
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**1.0063**	**.00000**	**.99755**	**.97682**
Stddev	.00017	.0011	.00018	.00008	.00498
%RSD	86.449	.10988	11266.	.00810	.50990
#1	-.00008	1.0055	.00013	.99749	.98035
#2	-.00031	1.0071	-.00013	.99761	.97330
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368367/3-a Acquired: 7/26/2017 13:15:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0058
Stddev	.0092
%RSD	.91453
#1	1.0123
#2	.99932
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3775.2	2447.2	17444.	3211.9
Stddev	3.7	2.4	20.	.2
%RSD	.09749	.09638	.11720	.00502
#1	3777.8	2448.8	17430.	3212.0
#2	3772.6	2445.5	17459.	3211.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.25%	101.54%	101.24%	100.85%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 13:18:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49833**	**25.406**	**.50042**	**.51220**	**.50641**
Stddev	.00449	.037	.00101	.00006	.00029
%RSD	.90178	.14412	.20115	.01238	.05793
#1	.49515	25.432	.49971	.51216	.50662
#2	.50151	25.380	.50113	.51225	.50620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51604**	**25.189**	**.50868**	**-.0557**	**.49826**
Stddev	.00183	.092	.00061	.0195	.00088
%RSD	.35446	.36449	.11914	35.01	.17690
#1	.51734	25.254	.50911	-.0695	.49889
#2	.51475	25.124	.50826	-.0419	.49764
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51138**	**.52423**	**24.752**	**25.762**	**.50765**
Stddev	.00401	.00160	.108	.179	.00118
%RSD	.78361	.30449	.43666	.69469	.23162
#1	.50855	.52536	24.828	25.889	.50682
#2	.51422	.52310	24.675	25.636	.50848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 13:18:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.489**	**.52418**	**.50569**	**25.282**	**.50541**
Stddev	.006	.00074	.00107	.121	.00127
%RSD	.02498	.14092	.21072	.48010	.25206
#1	25.484	.52365	.50493	25.368	.50631
#2	25.493	.52470	.50644	25.196	.50451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50046**	**25.049**	**.50903**	**.50296**	**24.551**
Stddev	.00006	.016	.00237	.00449	.093
%RSD	.01203	.06565	.46471	.89329	.37758
#1	.50050	25.061	.50736	.50614	24.617
#2	.50042	25.038	.51071	.49979	24.486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50966**	**.49946**	**.50360**	**.50418**	**.50550**
Stddev	.00033	.00115	.00074	.00150	.00381
%RSD	.06412	.23065	.14607	.29804	.75436
#1	.50943	.50028	.50308	.50312	.50281
#2	.50990	.49865	.50412	.50524	.50820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 13:18:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50813
Stddev	.00154
%RSD	.30315
#1	.50704
#2	.50922
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3405.7	2379.2	16629.	3154.2
Stddev	.7	2.2	67.	3.9
%RSD	.02008	.09359	.40244	.12466
#1	3406.2	2377.7	16677.	3151.4
#2	3405.3	2380.8	16582.	3157.0

Sample Name: CCB-4130963 Acquired: 7/26/2017 13:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.01375**	**.00006**	**.00274**	**.00001**
Stddev	.00054	.00423	.00000	.00009	.00000
%RSD	226.66	30.778	2.3514	3.4266	35.959
#1	.00014	.01076	.00006	.00281	.00001
#2	-.00062	.01674	.00006	.00268	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00058**	**.00009**	**-.0252**	**-.00007**
Stddev	.00006	.00418	.00003	.0361	.00006
%RSD	698.88	724.86	39.141	143.3	83.715
#1	.00004	.00353	.00011	-.0508	-.00011
#2	-.00005	-.00238	.00006	.0003	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00062**	**.00130**	**.00075**	**-.00138**
Stddev	.00052	.00056	.00084	.01226	.00119
%RSD	91.675	91.177	64.582	1627.5	86.325
#1	.00020	.00101	.00071	-.00792	-.00054
#2	.00094	.00022	.00190	.00943	-.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 13:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**-.00002**	**.00016**	**.05168**	**.00005**
Stddev	.00243	.00008	.00021	.00151	.00030
%RSD	475.67	369.67	129.85	2.9143	544.49
#1	.00121	.00003	.00031	.05275	.00026
#2	-.00223	-.00008	.00001	.05062	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00206**	**.00130**	**.00223**	**.01702**
Stddev	.00009	.00161	.00138	.00264	.00883
%RSD	1050.3	78.146	106.03	118.42	51.864
#1	.00007	-.00092	.00228	.00036	.01078
#2	-.00006	-.00320	.00033	.00410	.02326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.00000**	**-.00041**	**.00083**	**-.00008**
Stddev	.00033	.00000	.00002	.00005	.00003
%RSD	118.63	453.25	4.9774	6.4674	44.612
#1	-.00052	.00000	-.00043	.00079	-.00010
#2	-.00005	-.00000	-.00040	.00087	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 13:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00045**
Stddev	.00018
%RSD	40.109
#1	.00032
#2	.00057
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3738.6**	**2411.0**	**17129.**	**3176.1**
Stddev	.6	.0	57.	6.5
%RSD	.01578	.00141	.33174	.20452
#1	3738.2	2411.0	17169.	3180.7
#2	3739.1	2411.0	17089.	3171.5

Sample Name: CCVL-4147888 Acquired: 7/26/2017 13:25:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**.20537**	**.01579**	**.02232**	**.00209**
Stddev	.00041	.00174	.00115	.00004	.00001
%RSD	7.0563	.84692	7.2819	.15714	.27231
#1	.00615	.20414	.01498	.02230	.00210
#2	.00556	.20660	.01660	.02235	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.50509**	**.00208**	**-.0205**	**.00385**
Stddev	.00013	.00393	.00006	.0416	.00014
%RSD	6.0219	.77838	2.7333	203.2	3.5883
#1	.00202	.50787	.00212	-.0499	.00375
#2	.00220	.50231	.00204	.0089	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00456**	**.01134**	**.05069**	**.51259**	**.02986**
Stddev	.00009	.00016	.00008	.01475	.00147
%RSD	1.9264	1.4425	.14882	2.8772	4.9066
#1	.00450	.01122	.05075	.50216	.03090
#2	.00462	.01145	.05064	.52302	.02883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 13:25:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19956**	**.00310**	**.01016**	**1.0571**	**.00962**
Stddev	.00109	.00006	.00019	.0094	.00005
%RSD	.54599	1.7827	1.8254	.89337	.52361
#1	.19878	.00306	.01029	1.0504	.00965
#2	.20033	.00314	.01003	1.0638	.00958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00993**	**.19509**	**.02107**	**.02501**	**.51593**
Stddev	.00014	.00148	.00293	.00336	.02920
%RSD	1.4223	.75807	13.886	13.433	5.6599
#1	.01003	.19405	.01901	.02263	.53658
#2	.00983	.19614	.02314	.02739	.49528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00935**	**.00487**	**.00486**	**.01994**	**.00487**
Stddev	.00015	.00002	.00044	.00035	.00016
%RSD	1.5995	.33680	9.0548	1.7549	3.3746
#1	.00924	.00486	.00455	.02019	.00499
#2	.00946	.00488	.00517	.01969	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 13:25:15 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01172
Stddev	.00059
%RSD	5.0009
#1	.01130
#2	.01213
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3747.6	2424.6	17257.	3174.4
Stddev	.4	1.9	84.	13.2
%RSD	.01046	.07657	.48509	.41437
#1	3747.9	2425.9	17317.	3165.1
#2	3747.4	2423.3	17198.	3183.7

Sample Name: 480-121360-c-1-b@10 Acquired: 7/26/2017 13:28:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.03537**	**-.00277**	**.05893**	F **132.91**
Stddev	.00045	.00941	.00151	.00015	1.27
%RSD	283.24	26.589	54.359	.26284	.95209
#1	.00047	.04202	-.00384	.05882	132.01
#2	-.00016	.02872	-.00171	.05904	133.80
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**242.28**	**-.00165**	**-.0304**	**-.00120**
Stddev	.00005	.65	.00020	.0186	.00021
%RSD	62.356	.26628	12.191	61.37	17.372
#1	-.00004	241.82	-.00179	-.0436	-.00134
#2	-.00010	242.74	-.00151	-.0172	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00154**	**8.0831**	**3.6462**	**2.1754**
Stddev	.00026	.00007	.0041	.0264	.0009
%RSD	101.90	4.7483	.05123	.72317	.04295
#1	.00007	-.00160	8.0802	3.6276	2.1760
#2	.00044	-.00149	8.0861	3.6649	2.1747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121360-c-1-b@10 Acquired: 7/26/2017 13:28:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.848**	**.19348**	**-.00016**	**551.51**	**-.00060**
Stddev	.028	.00030	.00014	.88	.00037
%RSD	.19024	.15741	85.001	.16025	60.765
#1	14.828	.19327	-.00007	550.89	-.00034
#2	14.868	.19370	-.00026	552.14	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00117**	**.03786**	**.00018**	**-.00065**	**.14790**
Stddev	.00207	.00068	.00041	.00002	.00540
%RSD	176.46	1.7831	224.07	3.2275	3.6492
#1	.00029	.03738	-.00011	-.00067	.14408
#2	-.00264	.03834	.00048	-.00064	.15171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	F **59.693**	**-.00046**	**-.00088**	**-.00001**
Stddev	.00032	.028	.00043	.00255	.00035
%RSD	181.66	.04740	94.465	291.62	2572.6
#1	.00005	59.673	-.00077	.00093	-.00026
#2	-.00040	59.713	-.00015	-.00268	.00023
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121360-c-1-b@10 Acquired: 7/26/2017 13:28:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00241
Stddev	.00058
%RSD	24.215
#1	.00200
#2	.00282
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2784.8	2102.5	15187.	3030.6
Stddev	4.1	.9	19.	21.4
%RSD	.14617	.04075	.12743	.70591
#1	2787.7	2103.1	15200.	3045.7
#2	2781.9	2101.9	15173.	3015.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.684%	87.235%	88.137%	95.153%
Range				

Sample Name: 480-121360-c-1-b@100 Acquired: 7/26/2017 13:32:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.03833**	**.00177**	**.00842**	F **14.308**
Stddev	.00020	.00017	.00003	.00066	.022
%RSD	30.767	.44683	1.9434	7.8907	.15197
#1	-.00050	.03821	.00179	.00889	14.324
#2	-.00078	.03845	.00174	.00795	14.293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**24.253**	**-.00027**	**-.0220**	**-.00018**
Stddev	.00002	.058	.00010	.0218	.00015
%RSD	21.173	.23761	38.155	99.07	83.709
#1	-.00010	24.213	-.00020	-.0375	-.00007
#2	-.00013	24.294	-.00035	-.0066	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00023**	**.82656**	**.38678**	**.21243**
Stddev	.00034	.00021	.00031	.01334	.00185
%RSD	165.51	89.819	.03706	3.4490	.87272
#1	.00003	-.00038	.82678	.37734	.21374
#2	-.00044	-.00008	.82635	.39621	.21112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121360-c-1-b@100 Acquired: 7/26/2017 13:32:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5424**	**.01987**	**-.00007**	**54.580**	**-.00037**
Stddev	.0031	.00003	.00023	.076	.00017
%RSD	.19787	.13314	311.93	.13937	46.650
#1	1.5402	.01985	.00009	54.526	-.00049
#2	1.5445	.01989	-.00023	54.634	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00348**	**-.00028**	**.00203**	**.01618**
Stddev	.00144	.00214	.00207	.00295	.00432
%RSD	401.68	61.473	742.42	145.70	26.696
#1	-.00066	.00197	.00119	-.00006	.01923
#2	.00138	.00499	-.00175	.00412	.01312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**6.7134**	**-.00024**	**.00089**	**.00035**
Stddev	.00047	.0360	.00026	.00059	.00013
%RSD	226.95	.53619	109.96	66.189	36.111
#1	.00054	6.6879	-.00043	.00047	.00026
#2	-.00013	6.7388	-.00005	.00130	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121360-c-1-b@100 Acquired: 7/26/2017 13:32:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00405**
Stddev	.00058
%RSD	14.418
#1	.00363
#2	.00446
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3421.1**	**2338.4**	**16610.**	**3134.2**
Stddev	8.9	8.4	60.	21.1
%RSD	.25967	.35772	.36058	.67300
#1	3414.8	2332.5	16567.	3149.1
#2	3427.3	2344.4	16652.	3119.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.748%	97.026%	96.395%	98.407%
Range				

Sample Name: BLANK Acquired: 7/26/2017 13:36:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**-.00906**	**-.00194**	**.00390**	**.00046**
Stddev	.00039	.01188	.00240	.00001	.00001
%RSD	52.788	131.16	123.29	.36148	1.6244
#1	-.00102	-.00066	-.00025	.00391	.00045
#2	-.00046	-.01746	-.00364	.00389	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00085**	**.00091**	**-.0041**	**-.00060**
Stddev	.00000	.00221	.00008	.0206	.00008
%RSD	7.1555	258.36	8.5284	497.6	12.813
#1	-.00004	.00241	.00086	-.0187	-.00054
#2	-.00003	-.00071	.00097	.0104	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00147**	**-.00031**	**.00132**	**.04578**	**-.00115**
Stddev	.00016	.00036	.00074	.00492	.00016
%RSD	10.741	114.86	56.005	10.747	13.796
#1	.00159	-.00056	.00080	.04926	-.00127
#2	.00136	-.00006	.00185	.04230	-.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:36:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**-.00005**	**.00027**	**.09666**	**-.00110**
Stddev	.00774	.00004	.00014	.00244	.00009
%RSD	268.08	88.964	51.696	2.5217	8.0671
#1	.00836	-.00002	.00017	.09493	-.00104
#2	-.00259	-.00007	.00037	.09838	-.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00903**	**.00289**	**.00099**	**.07213**
Stddev	.00025	.00071	.00091	.00044	.00867
%RSD	39.729	7.8779	31.329	44.245	12.023
#1	.00045	-.00953	.00353	.00068	.06600
#2	.00079	-.00853	.00225	.00130	.07826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00007**	**.00042**	**-.00434**	**-.00007**
Stddev	.00017	.00012	.00018	.00025	.00016
%RSD	10.870	160.87	43.665	5.8138	220.13
#1	.00172	.00015	.00054	-.00416	-.00019
#2	.00148	-.00001	.00029	-.00451	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:36:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00017
Stddev	.00050
%RSD	289.38
#1	-.00018
#2	.00053
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3503.8	2117.5	15866.	3083.4
Stddev	10.8	5.4	39.	9.5
%RSD	.30783	.25518	.24847	.30683
#1	3496.2	2113.7	15894.	3076.7
#2	3511.4	2121.4	15838.	3090.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.967%	87.861%	92.079%	96.811%
Range				

Sample Name: BLANK Acquired: 7/26/2017 13:39:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.02022**	**.00085**	**.00298**	**.00003**
Stddev	.00067	.00219	.00051	.00063	.00004
%RSD	224.67	10.834	59.459	21.055	122.97
#1	.00018	.01867	.00049	.00342	.00000
#2	-.00077	.02177	.00121	.00254	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00295**	**.00088**	**-.0419**	**-.00044**
Stddev	.00008	.00092	.00009	.0064	.00011
%RSD	538.42	31.145	10.273	15.36	25.352
#1	.00008	.00230	.00082	-.0465	-.00036
#2	-.00004	.00359	.00094	-.0374	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00000**	**.00153**	**.01322**	**-.00025**
Stddev	.00011	.00060	.00231	.03561	.00015
%RSD	19.196	13736.	151.10	269.36	60.395
#1	.00050	.00043	-.00010	.03840	-.00036
#2	.00066	-.00042	.00316	-.01196	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:39:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00374**	**-.00002**	**.00047**	**.07313**	**-.00102**
Stddev	.00996	.00002	.00020	.01248	.00010
%RSD	266.50	100.59	41.848	17.063	9.3892
#1	.01078	-.00004	.00033	.08195	-.00109
#2	-.00330	-.00001	.00061	.06430	-.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**-.00897**	**.00145**	**.00173**	**.03056**
Stddev	.00010	.00008	.00229	.00118	.01902
%RSD	11.379	.92591	157.67	67.837	62.247
#1	.00094	-.00891	-.00017	.00257	.01711
#2	.00080	-.00903	.00307	.00090	.04401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**-.00011**	**-.00008**	**-.00368**	**.00043**
Stddev	.00026	.00000	.00005	.00066	.00036
%RSD	15.505	2.8265	56.164	18.044	83.621
#1	.00183	-.00011	-.00012	-.00321	.00069
#2	.00147	-.00011	-.00005	-.00415	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 13:39:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00055
Stddev	.00038
%RSD	69.356
#1	.00028
#2	.00082
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3502.5	2118.4	15833.	3051.3
Stddev	5.9	5.9	92.	4.3
%RSD	.16862	.27749	.57813	.14236
#1	3498.3	2114.2	15769.	3048.2
#2	3506.7	2122.5	15898.	3054.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.932%	87.894%	91.891%	95.802%
Range				

Sample Name: 121362-f-1-b@100 Acquired: 7/26/2017 13:43:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00839**	**.00082**	**.01053**	F **21.808**
Stddev	.00027	.00854	.00264	.00040	.200
%RSD	214.61	101.80	320.39	3.8376	.91652
#1	.00031	.01444	.00269	.01024	21.666
#2	-.00006	.00235	-.00104	.01082	21.949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**70.684**	**-.00020**	**-.0303**	**-.00035**
Stddev	.00001	.216	.00010	.0206	.00014
%RSD	67.425	.30563	51.587	68.03	40.553
#1	.00001	70.531	-.00013	-.0448	-.00045
#2	.00003	70.836	-.00027	-.0157	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**-.00053**	**.22134**	**.71752**	**.45355**
Stddev	.00086	.00070	.00233	.06224	.00197
%RSD	114.98	131.71	1.0517	8.6749	.43458
#1	.00135	-.00103	.22298	.67351	.45216
#2	.00014	-.00004	.21969	.76154	.45495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-b@100 Acquired: 7/26/2017 13:43:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4083**	**.04082**	**-.00004**	**123.37**	**-.00024**
Stddev	.0075	.00002	.00002	.07	.00056
%RSD	.16977	.05936	43.091	.05944	231.40
#1	4.4030	.04080	-.00002	123.32	.00015
#2	4.4136	.04084	-.00005	123.42	-.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00023**	**.00066**	**.00011**	**.00261**
Stddev	.00069	.00098	.00184	.00178	.00056
%RSD	269.27	421.90	277.65	1593.2	21.477
#1	.00074	-.00046	-.00064	.00137	.00301
#2	-.00023	.00092	.00196	-.00114	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	F **21.745**	**.00010**	**-.00009**	**-.00015**
Stddev	.00020	.091	.00040	.00116	.00039
%RSD	87.694	.41760	402.15	1309.0	255.54
#1	-.00009	21.680	.00039	-.00091	.00012
#2	-.00037	21.809	-.00019	.00073	-.00042
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 121362-f-1-b@100 Acquired: 7/26/2017 13:43:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00155
Stddev	.00070
%RSD	45.194
#1	.00205
#2	.00105
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3255.9	2308.3	16445.	3109.1
Stddev	7.4	7.9	31.	9.2
%RSD	.22655	.34031	.18857	.29572
#1	3261.2	2313.9	16467.	3115.6
#2	3250.7	2302.8	16423.	3102.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.320%	95.776%	95.442%	97.617%
Range				

Sample Name: 121362-f-1-bSD@500 Acquired: 7/26/2017 13:46:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.03465**	**-.00220**	**.00621**	**4.4640**
Stddev	.00037	.02076	.00159	.00029	.0432
%RSD	49.026	59.923	72.323	4.6480	.96791
#1	-.00101	.01997	-.00108	.00641	4.4946
#2	-.00049	.04933	-.00333	.00600	4.4335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**14.368**	**-.00003**	**-.0193**	**.00006**
Stddev	.00012	.143	.00020	.0207	.00002
%RSD	200.78	.99425	690.79	107.5	28.440
#1	.00015	14.469	-.00017	-.0339	.00007
#2	-.00003	14.267	.00011	-.0046	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00033**	**.05165**	**.15530**	**.09083**
Stddev	.00017	.00053	.00154	.02959	.00033
%RSD	50.757	158.95	2.9903	19.056	.36494
#1	-.00046	-.00071	.05055	.17623	.09106
#2	-.00022	.00004	.05274	.13438	.09059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bSD@500 Acquired: 7/26/2017 13:46:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91235**	**.00854**	**.00000**	**24.846**	**-.00019**
Stddev	.00542	.00013	.00009	.175	.00010
%RSD	.59386	1.5223	21576.	.70512	54.653
#1	.90852	.00845	-.00006	24.970	-.00026
#2	.91618	.00864	.00007	24.723	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00189**	**-.00005**	**.00030**	**.01276**
Stddev	.00002	.00204	.00030	.00201	.00775
%RSD	77.274	108.07	618.74	661.84	60.691
#1	-.00001	-.00045	.00017	.00173	.01824
#2	-.00003	-.00333	-.00026	-.00112	.00729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**4.5861**	**.00032**	**.00030**	**-.00003**
Stddev	.00031	.0159	.00039	.00096	.00077
%RSD	225.31	.34620	121.69	319.34	3059.0
#1	-.00008	4.5973	.00060	.00098	-.00057
#2	.00035	4.5749	.00004	-.00038	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bSD@500 Acquired: 7/26/2017 13:46:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00122
Stddev	.00002
%RSD	2.0420
#1	.00124
#2	.00120
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3553.1	2380.8	16848.	3168.3
Stddev	7.8	3.9	16.	48.6
%RSD	.22074	.16551	.09756	1.5351
#1	3558.6	2383.6	16859.	3133.9
#2	3547.5	2378.0	16836.	3202.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.288%	98.782%	97.778%	99.478%
Range				

Sample Name: 121362-f-1-bPDS@100 Acquired: 7/26/2017 13:50:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93126**	**.06333**	**1.0093**	**.01508**	F **22.857**
Stddev	.00659	.00593	.0012	.00021	.166
%RSD	.70714	9.3675	.11798	1.3841	.72440
#1	.93592	.06752	1.0101	.01493	22.974
#2	.92661	.05913	1.0084	.01523	22.740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0195**	**69.763**	**1.0342**	**-.0520**	**.98298**
Stddev	.0012	.206	.0002	.0152	.00076
%RSD	.12211	.29595	.01875	29.23	.07723
#1	1.0204	69.909	1.0341	-.0412	.98245
#2	1.0186	69.617	1.0344	-.0627	.98352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99806**	**1.0170**	**.21297**	**.73471**	**.45220**
Stddev	.00876	.0005	.00008	.05855	.00072
%RSD	.87794	.05085	.03603	7.9691	.15972
#1	1.0043	1.0166	.21302	.69330	.45271
#2	.99187	1.0173	.21292	.77611	.45169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bPDS@100 Acquired: 7/26/2017 13:50:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3734**	**1.0362**	**.99066**	**122.76**	**1.0059**
Stddev	.0383	.0060	.00239	.31	.0015
%RSD	.87641	.58045	.24107	.25292	.15281
#1	4.4005	1.0405	.99235	122.98	1.0048
#2	4.3463	1.0320	.98897	122.54	1.0070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0217**	**.00115**	**1.0011**	**1.0048**	**.02330**
Stddev	.0034	.00035	.0003	.0032	.00325
%RSD	.33025	30.134	.03179	.31378	13.945
#1	1.0194	.00091	1.0013	1.0070	.02560
#2	1.0241	.00140	1.0008	1.0026	.02100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	F **21.678**	**.00017**	**.99624**	**.99587**
Stddev	.00034	.064	.00011	.00460	.00559
%RSD	8643.0	.29298	63.477	.46209	.56099
#1	-.00024	21.722	.00009	.99950	.99982
#2	.00023	21.633	.00024	.99299	.99192
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 121362-f-1-bPDS@100 Acquired: 7/26/2017 13:50:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0218**
Stddev	.0091
%RSD	.88817
#1	1.0282
#2	1.0154
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3224.3**	**2287.8**	**16291.**	**3109.6**
Stddev	9.0	6.3	54.	15.5
%RSD	.27943	.27691	.33249	.49940
#1	3217.9	2283.3	16252.	3098.7
#2	3230.6	2292.3	16329.	3120.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.470%	94.924%	94.545%	97.636%
Range				

Sample Name: 121362-f-1-c ms@100 Acquired: 7/26/2017 13:53:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**.03727**	**.00226**	**.00938**	F **21.656**
Stddev	.00105	.00920	.00081	.00012	.128
%RSD	59.614	24.687	35.688	1.2365	.59288
#1	.00250	.03077	.00284	.00947	21.747
#2	.00102	.04378	.00169	.00930	21.565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**68.209**	**.00188**	**-.0451**	**.00174**
Stddev	.00006	.319	.00045	.0334	.00009
%RSD	2.7040	.46717	23.689	74.10	5.2401
#1	.00211	68.434	.00219	-.0215	.00180
#2	.00203	67.984	.00156	-.0687	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**.00230**	**.20906**	**.70875**	**.44369**
Stddev	.00021	.00040	.00165	.00729	.00269
%RSD	17.821	17.379	.79019	1.0288	.60614
#1	.00101	.00202	.20790	.71390	.44559
#2	.00131	.00258	.21023	.70359	.44178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-c ms@100 Acquired: 7/26/2017 13:53:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2998**	**.04117**	**.00205**	**119.32**	**.00194**
Stddev	.0071	.00026	.00012	.51	.00037
%RSD	.16613	.62848	5.7227	.42932	19.317
#1	4.2947	.04098	.00213	119.68	.00167
#2	4.3048	.04135	.00197	118.96	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00240**	**-.00216**	**.00326**	**.00376**	**.00197**
Stddev	.00087	.00146	.00125	.00207	.01454
%RSD	36.249	67.405	38.437	54.953	739.65
#1	.00301	-.00113	.00238	.00230	-.00832
#2	.00178	-.00319	.00415	.00522	.01225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	F **21.163**	**-.00036**	**.00264**	**.00219**
Stddev	.00042	.140	.00085	.00050	.00019
%RSD	103.22	.66302	235.11	19.043	8.6689
#1	-.00070	21.262	.00024	.00299	.00206
#2	-.00011	21.064	-.00096	.00228	.00232
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 121362-f-1-c ms@100 Acquired: 7/26/2017 13:53:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00422**
Stddev	.00017
%RSD	4.0119
#1	.00434
#2	.00410
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3231.7**	**2283.9**	**16256.**	**3124.8**
Stddev	1.1	2.0	26.	8.3
%RSD	.03510	.08898	.15977	.26512
#1	3230.9	2285.4	16274.	3118.9
#2	3232.5	2282.5	16237.	3130.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.668%	94.764%	94.342%	98.110%
Range				

Sample Name: 121362-f-1-d msd@100 Acquired: 7/26/2017 13:57:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.01990**	**.00163**	**.00974**	F **20.377**
Stddev	.00074	.00151	.00020	.00040	.065
%RSD	42.425	7.5730	12.169	4.0821	.31965
#1	.00225	.02097	.00149	.00945	20.331
#2	.00121	.01884	.00177	.01002	20.423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**68.959**	**.00130**	**-.0200**	**.00190**
Stddev	.00002	.174	.00002	.0623	.00009
%RSD	1.0191	.25300	1.8153	311.2	4.9434
#1	.00212	68.835	.00128	-.0641	.00183
#2	.00209	69.082	.00132	.0240	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.00007**	**.21014**	**.75744**	**.44951**
Stddev	.00033	.00017	.00151	.00119	.00249
%RSD	16.338	245.92	.71653	.15672	.55351
#1	.00225	-.00005	.20907	.75660	.45126
#2	.00179	.00019	.21120	.75828	.44775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-d msd@100 Acquired: 7/26/2017 13:57:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3461**	**.03697**	**.00209**	**111.38**	**.00166**
Stddev	.0165	.00001	.00021	.03	.00021
%RSD	.37970	.01896	9.9829	.02456	12.398
#1	4.3578	.03697	.00224	111.36	.00181
#2	4.3345	.03696	.00194	111.40	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**-.00230**	**.00253**	**.00040**	**.00894**
Stddev	.00047	.00054	.00146	.00077	.01524
%RSD	53.642	23.431	57.809	191.16	170.48
#1	.00120	-.00269	.00150	.00094	.01972
#2	.00054	-.00192	.00356	-.00014	-.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	F **20.972**	**-.00036**	**.00319**	**.00201**
Stddev	.00050	.025	.00049	.00035	.00001
%RSD	162.38	.11751	138.18	11.097	.32117
#1	.00005	20.990	-.00070	.00294	.00200
#2	-.00067	20.955	-.00001	.00344	.00201
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 121362-f-1-d msd@100 Acquired: 7/26/2017 13:57:26 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00361
Stddev	.00053
%RSD	14.732
#1	.00324
#2	.00399
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3245.0	2287.8	16220.	3100.2
Stddev	1.6	.4	11.	9.9
%RSD	.05026	.01933	.06764	.31789
#1	3243.9	2288.1	16212.	3093.2
#2	3246.2	2287.4	16228.	3107.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.026%	94.923%	94.136%	97.339%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:01:07 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49947**	**25.287**	**.49534**	**.51069**	**.50967**
Stddev	.00050	.147	.00132	.00096	.00076
%RSD	.10037	.57969	.26713	.18868	.14839
#1	.49912	25.183	.49627	.51137	.50913
#2	.49983	25.390	.49440	.51001	.51020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51748**	**25.186**	**.50894**	**-.0188**	**.49915**
Stddev	.00305	.139	.00042	.0088	.00033
%RSD	.58888	.55053	.08341	46.60	.06614
#1	.51533	25.088	.50864	-.0250	.49891
#2	.51964	25.284	.50924	-.0126	.49938
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50933**	**.52596**	**24.690**	**25.898**	**.50714**
Stddev	.00093	.00111	.180	.252	.00266
%RSD	.18324	.21125	.73089	.97327	.52444
#1	.50867	.52675	24.562	25.720	.50526
#2	.50999	.52518	24.817	26.077	.50902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:01:07 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.648**	**.52662**	**.50478**	**25.437**	**.50712**
Stddev	.038	.00075	.00016	.215	.00021
%RSD	.14691	.14272	.03258	.84367	.04100
#1	25.622	.52609	.50466	25.285	.50727
#2	25.675	.52715	.50489	25.589	.50698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50341**	**25.017**	**.50588**	**.50183**	**24.462**
Stddev	.00037	.024	.00010	.00320	.159
%RSD	.07254	.09554	.01896	.63839	.65151
#1	.50367	25.034	.50581	.50410	24.349
#2	.50316	25.000	.50595	.49957	24.574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51068**	**.50052**	**.50497**	**.50163**	**.50607**
Stddev	.00046	.00216	.00176	.00126	.00210
%RSD	.09042	.43151	.34925	.25186	.41564
#1	.51036	.49900	.50373	.50253	.50458
#2	.51101	.50205	.50622	.50074	.50756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:01:07 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51014**
Stddev	.00070
%RSD	.13813
#1	.50964
#2	.51063
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3389.4**	**2368.8**	**16553.**	**3145.7**
Stddev	1.8	1.2	24.	18.4
%RSD	.05345	.05251	.14202	.58598
#1	3390.7	2369.7	16570.	3158.7
#2	3388.1	2367.9	16537.	3132.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:04:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.01792**	**.00050**	**.00080**	**.00068**
Stddev	.00089	.03321	.00047	.00021	.00001
%RSD	825.70	185.37	94.258	26.733	1.0703
#1	.00052	-.04140	.00017	.00095	.00067
#2	-.00074	.00557	.00083	.00065	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00327**	**-.00004**	**-.0136**	**-.00012**
Stddev	.00007	.00081	.00003	.0290	.00011
%RSD	319.73	24.689	72.109	213.0	96.729
#1	.00003	.00384	-.00002	.0069	-.00004
#2	-.00007	.00270	-.00006	-.0341	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00080**	**-.00035**	**.01119**	**-.00148**
Stddev	.00056	.00038	.00371	.03713	.00103
%RSD	296.24	47.959	1066.1	331.87	69.544
#1	-.00059	-.00053	-.00297	.03744	-.00075
#2	.00021	-.00107	.00227	-.01507	-.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:04:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00698**	**.00004**	**.00003**	**.04707**	**-.00012**
Stddev	.00145	.00010	.00007	.00327	.00014
%RSD	20.825	247.54	204.87	6.9523	118.33
#1	.00595	-.00003	.00008	.04938	-.00002
#2	.00800	.00011	-.00001	.04475	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**-.00100**	**.00134**	**.00104**	**.00905**
Stddev	.00106	.00070	.00020	.00100	.00609
%RSD	123.90	70.183	14.770	95.429	67.251
#1	.00011	-.00150	.00120	.00175	.00475
#2	.00161	-.00051	.00148	.00034	.01336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00051**	**.00028**	**.00118**	**.00009**
Stddev	.00010	.00001	.00032	.00076	.00063
%RSD	68.584	2.2666	113.36	64.142	672.81
#1	-.00008	.00050	.00006	.00065	-.00035
#2	-.00022	.00052	.00050	.00172	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:04:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00030**
Stddev	.00096
%RSD	315.92
#1	-.00037
#2	.00098
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3716.2**	**2392.4**	**17053.**	**3138.0**
Stddev	7.0	10.3	36.	9.9
%RSD	.18792	.43085	.21343	.31563
#1	3711.2	2385.1	17028.	3145.0
#2	3721.1	2399.7	17079.	3131.0

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:07:50 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00610**	**.22877**	**.01602**	**.02099**	F **.00361**
Stddev	.00048	.00319	.00141	.00000	.00004
%RSD	7.8095	1.3947	8.8090	.00637	1.0053
#1	.00644	.23103	.01502	.02099	.00358
#2	.00576	.22651	.01701	.02100	.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.00200
Range					50.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.50372**	**.00224**	**-.0540**	**.00381**
Stddev	.00001	.00538	.00002	.0149	.00006
%RSD	.55070	1.0683	.92471	27.55	1.6151
#1	.00209	.50752	.00225	-.0645	.00385
#2	.00208	.49991	.00223	-.0435	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**.01059**	**.05479**	**.50326**	**.03042**
Stddev	.00061	.00038	.00085	.02018	.00154
%RSD	14.521	3.5786	1.5523	4.0100	5.0595
#1	.00466	.01085	.05539	.51753	.03150
#2	.00379	.01032	.05419	.48899	.02933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:07:50 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20910**	**.00315**	**.01006**	**1.0826**	**.00974**
Stddev	.00141	.00002	.00008	.0126	.00050
%RSD	.67467	.50617	.82850	1.1679	5.1833
#1	.21010	.00314	.01012	1.0915	.00938
#2	.20810	.00317	.01000	1.0736	.01010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00939**	**.19452**	**.02133**	**.02238**	**.50325**
Stddev	.00086	.00048	.00052	.00069	.01618
%RSD	9.1728	.24536	2.4430	3.0625	3.2157
#1	.01000	.19419	.02097	.02189	.51470
#2	.00878	.19486	.02170	.02286	.49181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**.00610**	**.00484**	**.01988**	**.00513**
Stddev	.00016	.00004	.00002	.00222	.00055
%RSD	1.7330	.65349	.48060	11.170	10.670
#1	.00952	.00607	.00482	.02145	.00475
#2	.00929	.00613	.00486	.01831	.00552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:07:50 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01145
Stddev	.00009
%RSD	.75547
#1	.01139
#2	.01151
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3732.9	2416.9	17213.	3195.1
Stddev	5.7	4.2	42.	24.4
%RSD	.15298	.17577	.24578	.76418
#1	3737.0	2419.9	17243.	3177.8
#2	3728.9	2413.9	17183.	3212.3

Sample Name: 121362-f-1-b@10 Acquired: 7/26/2017 14:11:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.00748**	**.00094**	**.09086**	^ *****
Stddev	.00032	.00419	.00022	.00079	-----
%RSD	55.418	55.987	23.107	.87362	-----
#1	.00035	.00452	.00079	.09030	^ -----
#2	.00081	.01044	.00110	.09142	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**671.08**	**-.00194**	**.0186**	**-.00180**
Stddev	.00005	6.34	.00003	.0045	.00002
%RSD	41.741	.94461	1.3159	24.04	1.3097
#1	-.00017	675.57	-.00196	.0154	-.00178
#2	-.00009	666.60	-.00192	.0217	-.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.00649**	**2.0482**	**8.0483**	**4.7731**
Stddev	.00020	.00045	.0087	.0085	.0087
%RSD	29.033	7.0057	.42409	.10533	.18226
#1	.00085	-.00681	2.0543	8.0423	4.7793
#2	.00056	-.00616	2.0421	8.0543	4.7670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-b@10 Acquired: 7/26/2017 14:11:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.092**	**.39052**	**-.00010**	**1282.1**	**-.00102**
Stddev	.034	.00120	.00046	6.1	.00013
%RSD	.08134	.30726	449.18	.47725	12.607
#1	42.116	.38967	-.00043	1286.5	-.00111
#2	42.068	.39137	.00022	1277.8	-.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00247**	**.00033**	**.00010**	**-.00394**	**.06982**
Stddev	.00480	.00264	.00391	.00172	.00820
%RSD	194.47	806.79	3987.1	43.687	11.744
#1	-.00586	.00219	-.00267	-.00516	.07561
#2	.00092	-.00154	.00286	-.00272	.06402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**^ *******	**-.00100**	**.00090**	**-.00040**
Stddev	.00027	-----	.00024	.00139	.00070
%RSD	52.045	-----	23.967	155.61	172.54
#1	-.00071	^ -----	-.00083	-.00009	.00009
#2	-.00033	^ -----	-.00117	.00188	-.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-b@10 Acquired: 7/26/2017 14:11:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03291
Stddev	.00019
%RSD	.57539
#1	.03278
#2	.03305
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2395.8	1921.1	14056.	2920.0
Stddev	1.8	.7	10.	13.5
%RSD	.07658	.03708	.07021	.46063
#1	2394.5	1921.6	14049.	2910.5
#2	2397.1	1920.6	14063.	2929.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.253%	79.711%	81.576%	91.682%
Range				

Sample Name: 121362-f-1-bSD@50 Acquired: 7/26/2017 14:15:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00475**	**.00141**	**.01880**	F **42.895**
Stddev	.00095	.00027	.00410	.00018	.187
%RSD	301.82	5.6749	290.41	.93608	.43618
#1	-.00098	.00494	-.00149	.01892	43.028
#2	.00036	.00456	.00431	.01867	42.763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**139.63**	**-.00045**	**-.0296**	**-.00061**
Stddev	.00007	.39	.00004	.0046	.00015
%RSD	325.26	.28086	8.7643	15.36	24.164
#1	.00003	139.36	-.00042	-.0264	-.00071
#2	-.00007	139.91	-.00048	-.0329	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**-.00183**	**.41640**	**1.5689**	**.91565**
Stddev	.00003	.00113	.00366	.0341	.00565
%RSD	2.3856	62.149	.87900	2.1742	.61682
#1	.00116	-.00102	.41898	1.5930	.91166
#2	.00120	-.00263	.41381	1.5448	.91964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bSD@50 Acquired: 7/26/2017 14:15:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6858**	**.08034**	**-.00002**	**245.99**	**-.00055**
Stddev	.0095	.00025	.00032	.36	.00021
%RSD	.10983	.30664	1599.9	.14782	39.213
#1	8.6925	.08017	.00021	246.25	-.00070
#2	8.6790	.08051	-.00025	245.73	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00283**	**-.00007**	**.00342**	**.02193**
Stddev	.00058	.00151	.00069	.00093	.01158
%RSD	298.01	53.436	925.87	27.226	52.788
#1	.00061	-.00389	-.00056	.00276	.03011
#2	-.00022	-.00176	.00041	.00408	.01374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	F **41.265**	**-.00026**	**.00109**	**.00035**
Stddev	.00009	.103	.00004	.00052	.00015
%RSD	62.195	.24942	16.185	48.049	41.804
#1	-.00008	41.338	-.00029	.00146	.00046
#2	-.00020	41.192	-.00023	.00072	.00025
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 121362-f-1-bSD@50 Acquired: 7/26/2017 14:15:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00776
Stddev	.00004
%RSD	.50985
#1	.00779
#2	.00773
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3002.9	2187.6	15517.	3056.3
Stddev	4.1	2.4	25.	2.3
%RSD	.13570	.10822	.16424	.07381
#1	3000.1	2189.3	15535.	3054.7
#2	3005.8	2185.9	15499.	3057.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.535%	90.767%	90.052%	95.960%
Range				

Sample Name: 121362-f-1-bPDS@10 Acquired: 7/26/2017 14:18:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0476**	**.02415**	**1.1290**	**.08966**	^ *****
Stddev	.0019	.03831	.0074	.00033	-----
%RSD	.18460	158.63	.65151	.37142	-----
#1	1.0462	.05125	1.1342	.08943	^ -----
#2	1.0490	-.00294	1.1238	.08990	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99110**	**672.87**	**1.1479**	**.0284**	**1.0755**
Stddev	.00450	4.90	.0005	.0144	.0008
%RSD	.45366	.72756	.04092	50.72	.07809
#1	.99428	676.33	1.1476	.0386	1.0749
#2	.98792	669.41	1.1482	.0182	1.0761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97671**	**1.0662**	**2.0314**	**7.9937**	**4.7577**
Stddev	.00130	.0063	.0006	.0086	.0257
%RSD	.13320	.58748	.03193	.10732	.54098
#1	.97763	1.0706	2.0319	7.9876	4.7759
#2	.97579	1.0618	2.0310	7.9998	4.7395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bPDS@10 Acquired: 7/26/2017 14:18:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.887**	**1.3691**	**1.0008**	**1269.9**	**1.0903**
Stddev	.023	.0031	.0013	6.5	.0021
%RSD	.05482	.22906	.13017	.51194	.19519
#1	41.903	1.3713	1.0018	1274.5	1.0888
#2	41.871	1.3669	.99993	1265.3	1.0918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1109**	**.00238**	**1.1087**	**1.1192**	**.08522**
Stddev	.0015	.00034	.0012	.0081	.00185
%RSD	.13668	14.080	.10558	.72131	2.1690
#1	1.1120	.00214	1.1079	1.1249	.08653
#2	1.1099	.00262	1.1096	1.1135	.08391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	^ *****	**-.00150**	**1.0024**	**.99865**
Stddev	.00070	-----	.00039	.0007	.00015
%RSD	368.37	-----	26.188	.06803	.01541
#1	.00068	^ -----	-.00122	1.0029	.99876
#2	-.00030	^ -----	-.00178	1.0019	.99854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-bPDS@10 Acquired: 7/26/2017 14:18:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0171
Stddev	.0013
%RSD	.12737
#1	1.0180
#2	1.0161
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2389.6	1917.8	14045.	2918.0
Stddev	.5	.9	79.	10.1
%RSD	.01940	.04668	.56062	.34633
#1	2389.9	1917.1	13990.	2910.8
#2	2389.2	1918.4	14101.	2925.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.085%	79.571%	81.514%	91.618%
Range				

Sample Name: 121362-f-1-c ms@10 Acquired: 7/26/2017 14:22:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02167	.03330	.02128	.08969	^ *****
Stddev	.00200	.00558	.00336	.00040	-----
%RSD	9.2209	16.751	15.808	.45094	-----
#1	.02308	.02936	.02366	.08998	^ -----
#2	.02026	.03725	.01890	.08941	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01977	667.73	.01992	-.0445	.01970
Stddev	.00005	.28	.00005	.0384	.00004
%RSD	.27652	.04262	.23001	86.38	.22251
#1	.01973	667.53	.01995	-.0173	.01973
#2	.01980	667.93	.01989	-.0716	.01967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02027	.01598	2.0353	8.0050	4.7413
Stddev	.00008	.00061	.0126	.0750	.0012
%RSD	.38667	3.8114	.61926	.93738	.02622
#1	.02022	.01641	2.0264	7.9519	4.7422
#2	.02033	.01555	2.0442	8.0580	4.7404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-c ms@10 Acquired: 7/26/2017 14:22:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.829**	**.40150**	**.02033**	**1250.4**	**.02052**
Stddev	.061	.00081	.00002	2.5	.00025
%RSD	.14539	.20143	.11629	.20308	1.2280
#1	41.872	.40208	.02031	1248.6	.02070
#2	41.786	.40093	.02034	1252.2	.02034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01997**	**.00147**	**.02143**	**.01634**	**.06644**
Stddev	.00013	.00074	.00013	.00448	.01119
%RSD	.63491	50.691	.62055	27.406	16.839
#1	.01988	.00094	.02134	.01317	.07435
#2	.02006	.00199	.02153	.01951	.05853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**^ *****	**-.00115**	**.01816**	**.01931**
Stddev	.00005	-----	.00065	.00097	.00030
%RSD	7.8002	-----	56.715	5.3217	1.5296
#1	.00067	^ -----	-.00069	.01748	.01952
#2	.00060	^ -----	-.00161	.01884	.01910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-c ms@10 Acquired: 7/26/2017 14:22:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02613
Stddev	.00028
%RSD	1.0691
#1	.02632
#2	.02593
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2390.4	1915.8	14027.	2916.1
Stddev	2.6	.9	19.	20.6
%RSD	.10925	.04643	.13796	.70732
#1	2392.3	1916.5	14013.	2930.7
#2	2388.6	1915.2	14041.	2901.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.107%	79.491%	81.407%	91.560%
Range				

Sample Name: 121362-f-1-d msd@10 Acquired: 7/26/2017 14:25:59 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01556**	**.03134**	**.02133**	**.08945**	^ *****
Stddev	.00044	.01667	.00233	.00039	-----
%RSD	2.8376	53.187	10.909	.43545	-----
#1	.01525	.04312	.01968	.08918	^ -----
#2	.01588	.01955	.02297	.08973	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01973**	**656.13**	**.01439**	**.0212**	**.01939**
Stddev	.00010	9.41	.00021	.0224	.00008
%RSD	.49639	1.4346	1.4296	105.5	.42187
#1	.01980	662.79	.01454	.0054	.01945
#2	.01966	649.48	.01425	.0371	.01933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01979**	**.01466**	**2.0084**	**7.8744**	**4.7059**
Stddev	.00121	.00127	.0232	.0621	.0041
%RSD	6.1141	8.6333	1.1543	.78892	.08641
#1	.01894	.01555	2.0248	7.9184	4.7087
#2	.02065	.01376	1.9920	7.8305	4.7030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-d msd@10 Acquired: 7/26/2017 14:25:59 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.552**	**.35354**	**.02013**	**1129.9**	**.02057**
Stddev	.119	.00075	.00031	3.9	.00010
%RSD	.28619	.21175	1.5534	.34562	.50581
#1	41.468	.35301	.02035	1132.6	.02050
#2	41.636	.35407	.01990	1127.1	.02064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01297**	**-.00441**	**.01919**	**.01829**	**.08651**
Stddev	.00152	.00173	.00114	.00041	.00496
%RSD	11.720	39.227	5.9643	2.2287	5.7365
#1	.01405	-.00563	.01838	.01800	.08300
#2	.01190	-.00318	.02000	.01858	.09002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**^ *******	**-.00036**	**.01627**	**.01988**
Stddev	.00012	-----	.00023	.00165	.00023
%RSD	16.428	-----	62.978	10.165	1.1656
#1	.00064	^ -----	-.00052	.01510	.01972
#2	.00081	^ -----	-.00020	.01744	.02005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121362-f-1-d msd@10 Acquired: 7/26/2017 14:25:59 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02415**
Stddev	.00060
%RSD	2.4809
#1	.02457
#2	.02372
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2416.0**	**1925.9**	**14118.**	**2946.8**
Stddev	2.2	4.0	61.	32.8
%RSD	.09006	.20655	.43110	1.1122
#1	2417.5	1928.8	14161.	2923.7
#2	2414.4	1923.1	14075.	2970.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	64.792%	79.911%	81.936%	92.524%
Range				

Sample Name: BLANK Acquired: 7/26/2017 14:29:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00598**	**-.00250**	**.00219**	**.00238**
Stddev	.00050	.02571	.00071	.00009	.00025
%RSD	273.76	430.16	28.281	3.9020	10.391
#1	.00054	.02415	-.00200	.00212	.00256
#2	-.00017	-.01220	-.00300	.00225	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00816**	**.00073**	**-.0267**	**-.00066**
Stddev	.00001	.01199	.00006	.0112	.00003
%RSD	39.995	146.95	8.7568	41.89	4.0110
#1	.00001	.01664	.00078	-.0188	-.00065
#2	.00002	-.00032	.00069	-.0346	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00012**	**.00199**	**.03387**	**-.00097**
Stddev	.00025	.00116	.00044	.02330	.00112
%RSD	31.109	1003.8	22.158	68.786	116.10
#1	.00062	.00094	.00168	.01740	-.00017
#2	.00097	-.00070	.00231	.05034	-.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 14:29:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**-.00001**	**.00046**	**.31321**	**-.00111**
Stddev	.00623	.00001	.00003	.02542	.00011
%RSD	143.00	82.251	6.4066	8.1163	10.141
#1	.00876	-.00001	.00048	.33118	-.00119
#2	-.00005	-.00000	.00044	.29523	-.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**-.00941**	**.00391**	**.00746**	**.02738**
Stddev	.00069	.00088	.00026	.00118	.00960
%RSD	61.025	9.3716	6.5881	15.825	35.068
#1	.00162	-.00879	.00409	.00663	.02059
#2	.00064	-.01004	.00373	.00829	.03417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**.00369**	**-.00005**	**-.00395**	**.00023**
Stddev	.00001	.00348	.00024	.00043	.00023
%RSD	.33821	94.291	500.45	10.776	98.124
#1	.00159	.00616	-.00021	-.00425	.00039
#2	.00160	.00123	.00012	-.00365	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 14:29:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00075**
Stddev	.00039
%RSD	51.871
#1	.00048
#2	.00103
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3459.7**	**2083.9**	**15850.**	**3067.7**
Stddev	.1	3.5	22.	5.4
%RSD	.00247	.16902	.13594	.17539
#1	3459.8	2081.4	15834.	3063.9
#2	3459.7	2086.4	15865.	3071.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.784%	86.463%	91.985%	96.318%
Range				

Sample Name: 480-121365-b-1-b Acquired: 7/26/2017 14:33:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.03159**	**1.0522**	**.35720**	**.04881**
Stddev	.00077	.00313	.0001	.00012	.00040
%RSD	89.842	9.8990	.01445	.03245	.82541
#1	-.00140	.02938	1.0523	.35712	.04910
#2	-.00031	.03380	1.0521	.35728	.04853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**5.5019**	**-.00050**	**-.0212**	**.00012**
Stddev	.00001	.0110	.00009	.0421	.00004
%RSD	29.394	.20055	17.443	198.3	32.842
#1	-.00005	5.5097	-.00044	-.0510	.00009
#2	-.00004	5.4941	-.00056	.0085	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00140**	**2.4981**	**112.84**	**.01643**
Stddev	.00018	.00036	.0069	.75	.00009
%RSD	32.056	25.798	.27655	.66818	.55688
#1	.00043	.00166	2.5029	113.38	.01650
#2	.00068	.00115	2.4932	112.31	.01637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-b-1-b Acquired: 7/26/2017 14:33:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.58070**	**.20032**	**.01185**	**25.681**	**.03902**
Stddev	.00863	.00109	.00003	.144	.00014
%RSD	1.4858	.54595	.26301	.56222	.34732
#1	.58680	.20109	.01182	25.783	.03912
#2	.57460	.19955	.01187	25.579	.03893
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**14.696**	**.00116**	**.00522**	**.57964**
Stddev	.00047	.012	.00010	.00092	.00751
%RSD	49.921	.08039	8.9646	17.664	1.2955
#1	.00061	14.688	.00123	.00456	.57433
#2	.00127	14.705	.00108	.00587	.58495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.07036**	**.00045**	**.00035**	**-.00003**
Stddev	.00028	.00102	.00015	.00010	.00006
%RSD	210.17	1.4542	32.672	29.601	185.70
#1	-.00033	.07108	.00056	.00042	-.00007
#2	.00006	.06963	.00035	.00028	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121365-b-1-b Acquired: 7/26/2017 14:33:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00992
Stddev	.00013
%RSD	1.3568
#1	.01001
#2	.00982
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3488.7	2390.0	17099.	3255.9
Stddev	7.6	5.1	40.	17.2
%RSD	.21643	.21163	.23168	.52907
#1	3494.0	2393.6	17127.	3243.7
#2	3483.4	2386.5	17071.	3268.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.561%	99.167%	99.233%	102.23%
Range				

Sample Name: 480-121376-e-1-b@100 Acquired: 7/26/2017 14:36:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.02111**	**-.00213**	**.01021**	F **22.460**
Stddev	.00036	.02401	.00008	.00009	.142
%RSD	65.335	113.71	3.9630	.86033	.63223
#1	-.00080	.00414	-.00219	.01015	22.560
#2	-.00029	.03809	-.00207	.01027	22.360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**40.801**	**-.00016**	**-.0214**	**-.00016**
Stddev	.00001	.001	.00006	.0145	.00010
%RSD	13.156	.00166	36.833	67.77	60.676
#1	-.00006	40.802	-.00012	-.0111	-.00022
#2	-.00007	40.801	-.00020	-.0316	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00024**	**.21264**	**.51142**	**.38702**
Stddev	.00007	.00043	.00036	.00666	.00100
%RSD	35.096	175.48	.17092	1.3013	.25886
#1	.00025	-.00055	.21238	.50672	.38773
#2	.00015	.00006	.21289	.51613	.38631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121376-e-1-b@100 Acquired: 7/26/2017 14:36:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3776**	**.02317**	**-.00001**	**88.380**	**-.00011**
Stddev	.0188	.00015	.00020	.273	.00016
%RSD	.78914	.66885	1777.3	.30902	152.10
#1	2.3644	.02306	-.00015	88.573	-.00022
#2	2.3909	.02328	.00013	88.187	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00529**	**-.00006**	**.00317**	**.01056**
Stddev	.00143	.00023	.00016	.00083	.00346
%RSD	254.35	4.2749	281.01	26.036	32.720
#1	.00157	.00545	-.00017	.00259	.01301
#2	-.00045	.00513	.00006	.00376	.00812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	F **15.496**	**-.00033**	**-.00052**	**-.00005**
Stddev	.00027	.111	.00065	.00072	.00045
%RSD	954.71	.71877	197.96	139.13	829.47
#1	-.00022	15.417	.00013	-.00103	.00026
#2	.00016	15.575	-.00079	-.00001	-.00037
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121376-e-1-b@100 Acquired: 7/26/2017 14:36:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00121
Stddev	.00018
%RSD	14.823
#1	.00133
#2	.00108
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3302.7	2300.3	16280.	3104.2
Stddev	7.8	4.8	8.	3.2
%RSD	.23550	.20983	.04747	.10274
#1	3297.2	2296.8	16286.	3102.0
#2	3308.2	2303.7	16275.	3106.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.572%	95.442%	94.483%	97.466%
Range				

Sample Name: BLANK Acquired: 7/26/2017 14:40:14 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.02792**	**-.00085**	**.00254**	**.00051**
Stddev	.00019	.00166	.00087	.00033	.00005
%RSD	42.624	5.9565	102.06	13.187	8.9293
#1	-.00059	.02674	-.00024	.00230	.00048
#2	-.00032	.02909	-.00147	.00278	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00125**	**.00087**	**-.0317**	**-.00044**
Stddev	.00007	.00242	.00014	.0032	.00005
%RSD	150.63	193.60	15.629	9.938	10.871
#1	.00010	.00296	.00077	-.0339	-.00047
#2	-.00000	-.00046	.00096	-.0295	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.00040**	**.00086**	**.06734**	**-.00051**
Stddev	.00039	.00112	.00106	.02751	.00246
%RSD	18.943	275.91	122.48	40.847	485.19
#1	.00236	-.00039	.00161	.08679	-.00225
#2	.00180	.00119	.00012	.04789	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 14:40:14 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00389**	**-.00010**	**.00054**	**.11820**	**-.00094**
Stddev	.00393	.00007	.00005	.00954	.00012
%RSD	101.03	68.779	10.064	8.0727	13.190
#1	.00111	-.00014	.00058	.12495	-.00085
#2	.00667	-.00005	.00050	.11145	-.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**-.00765**	**.00414**	**.00288**	**.02227**
Stddev	.00074	.00104	.00128	.00101	.00604
%RSD	44.560	13.560	30.879	35.081	27.103
#1	.00218	-.00691	.00504	.00217	.02654
#2	.00113	-.00838	.00323	.00359	.01800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**.00003**	**.00041**	**-.00422**	**.00030**
Stddev	.00009	.00001	.00026	.00024	.00039
%RSD	5.2979	39.373	64.734	5.6421	131.26
#1	.00169	.00002	.00060	-.00438	.00002
#2	.00182	.00003	.00022	-.00405	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 14:40:14 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00037**
Stddev	.00028
%RSD	76.077
#1	-.00017
#2	-.00057
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3468.5**	**2091.7**	**15844.**	**3060.6**
Stddev	4.0	4.6	42.	7.6
%RSD	.11540	.22148	.26396	.24973
#1	3465.7	2088.4	15815.	3066.0
#2	3471.3	2095.0	15874.	3055.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.020%	86.788%	91.953%	96.095%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:43:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49867**	**25.503**	**.49649**	**.50849**	**.51182**
Stddev	.00199	.035	.00096	.00074	.00016
%RSD	.39997	.13847	.19431	.14550	.03112
#1	.49726	25.478	.49718	.50796	.51171
#2	.50008	25.528	.49581	.50901	.51194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51844**	**25.426**	**.50867**	**-.0275**	**.49950**
Stddev	.00134	.021	.00046	.0266	.00011
%RSD	.25835	.08356	.08987	96.63	.02205
#1	.51749	25.411	.50899	-.0087	.49942
#2	.51939	25.441	.50834	-.0463	.49958
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51350**	**.52127**	**24.903**	**25.980**	**.51235**
Stddev	.00388	.00074	.044	.039	.00111
%RSD	.75624	.14109	.17834	.14844	.21665
#1	.51076	.52179	24.872	25.953	.51157
#2	.51625	.52075	24.934	26.007	.51314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:43:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.642**	**.52774**	**.50413**	**25.539**	**.50737**
Stddev	.107	.00145	.00055	.095	.00007
%RSD	.41766	.27564	.10994	.37085	.01407
#1	25.567	.52671	.50374	25.472	.50742
#2	25.718	.52877	.50452	25.606	.50732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50173**	**24.986**	**.50559**	**.49990**	**24.621**
Stddev	.00195	.025	.00000	.00076	.072
%RSD	.38854	.10089	.00006	.15175	.29362
#1	.50035	24.968	.50559	.49936	24.570
#2	.50311	25.003	.50559	.50043	24.672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51182**	**.50480**	**.50575**	**.50126**	**.51082**
Stddev	.00158	.00122	.00076	.00087	.00272
%RSD	.30824	.24161	.14972	.17275	.53325
#1	.51070	.50394	.50521	.50188	.50889
#2	.51293	.50567	.50628	.50065	.51274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 14:43:43 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51451
Stddev	.00035
%RSD	.06814
#1	.51426
#2	.51475
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3414.4	2386.8	16811.	3149.2
Stddev	11.6	9.5	39.	4.9
%RSD	.33873	.39821	.23326	.15576
#1	3422.6	2393.5	16839.	3152.7
#2	3406.3	2380.1	16783.	3145.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:46:55 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00143**	**.00009**	**.00079**	F **.00303**
Stddev	.00036	.02416	.00094	.00014	.00010
%RSD	414.18	1695.2	1081.0	17.008	3.4560
#1	.00017	.01851	.00075	.00089	.00310
#2	-.00034	-.01566	-.00058	.00070	.00296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					.00200
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.01038**	**.00014**	**-.0141**	**-.00011**
Stddev	.00008	.00248	.00010	.0484	.00003
%RSD	393.79	23.875	73.972	343.9	27.915
#1	-.00008	.00863	.00022	-.0483	-.00009
#2	.00004	.01213	.00007	.0202	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00027**	**.00049**	**.03741**	**-.00153**
Stddev	.00006	.00037	.00101	.01205	.00008
%RSD	212.32	138.56	208.27	32.214	5.2825
#1	-.00001	.00053	.00120	.04594	-.00147
#2	.00006	.00001	-.00023	.02889	-.00159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:46:55 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00304**	**.00005**	**.00002**	**.07803**	**-.00015**
Stddev	.00170	.00001	.00032	.00254	.00007
%RSD	55.954	14.296	1302.2	3.2535	49.991
#1	.00424	.00005	.00025	.07623	-.00010
#2	.00184	.00004	-.00020	.07982	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**-.00048**	**.00038**	**.00397**	**.01554**
Stddev	.00009	.00289	.00294	.00053	.00355
%RSD	6.6910	600.78	778.76	13.276	22.861
#1	.00140	.00156	.00246	.00434	.01806
#2	.00127	-.00253	-.00170	.00360	.01303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00293**	**.00048**	**-.00007**	**.00031**
Stddev	.00033	.00012	.00023	.00095	.00009
%RSD	284.89	4.1228	48.136	1269.3	29.707
#1	.00012	.00301	.00031	.00060	.00024
#2	-.00035	.00284	.00064	-.00075	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 14:46:55 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00063
Stddev	.00037
%RSD	58.028
#1	.00037
#2	.00089
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3717.2	2395.6	17060.	3158.9
Stddev	8.2	7.5	31.	16.5
%RSD	.22113	.31192	.17982	.52116
#1	3723.0	2400.8	17039.	3147.2
#2	3711.4	2390.3	17082.	3170.5

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:50:24 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00529**	**.21943**	**.01508**	**.02068**	F **.00373**
Stddev	.00015	.00153	.00269	.00025	.00007
%RSD	2.8916	.69785	17.869	1.2014	1.9961
#1	.00518	.21835	.01317	.02085	.00379
#2	.00540	.22051	.01699	.02050	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.00200
Range					50.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00216**	**.50916**	**.00216**	**-.0184**	**.00381**
Stddev	.00002	.00101	.00007	.0049	.00002
%RSD	1.1268	.19776	3.4482	26.76	.42871
#1	.00218	.50987	.00222	-.0149	.00380
#2	.00215	.50845	.00211	-.0219	.00382
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00439**	**.01046**	**.05085**	**.53542**	**.02926**
Stddev	.00040	.00017	.00007	.04176	.00094
%RSD	9.1306	1.6125	.14536	7.7997	3.2123
#1	.00468	.01034	.05080	.56495	.02992
#2	.00411	.01058	.05090	.50589	.02859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:50:24 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21360**	**.00313**	**.01006**	**1.0807**	**.00977**
Stddev	.00075	.00003	.00010	.0230	.00008
%RSD	.34990	1.0419	1.0338	2.1246	.81717
#1	.21307	.00315	.01013	1.0970	.00971
#2	.21412	.00310	.00998	1.0645	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00924**	**.19632**	**.02005**	**.02558**	**.52311**
Stddev	.00129	.00104	.00145	.00069	.02124
%RSD	13.918	.53065	7.2379	2.7036	4.0603
#1	.01015	.19705	.01903	.02606	.50809
#2	.00833	.19558	.02108	.02509	.53813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00898**	W **.00652**	**.00527**	**.02002**	**.00501**
Stddev	.00025	.00003	.00019	.00016	.00013
%RSD	2.7868	.45785	3.6404	.81678	2.5055
#1	.00915	.00654	.00514	.01990	.00510
#2	.00880	.00650	.00541	.02013	.00492
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.00500			
Range		30.000%			

Sample Name: CCVL-4147888 Acquired: 7/26/2017 14:50:24 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01033**
Stddev	.00021
%RSD	2.0750
#1	.01048
#2	.01018
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3726.8**	**2413.1**	**17080.**	**3114.6**
Stddev	8.1	3.2	17.	21.2
%RSD	.21690	.13174	.10207	.68089
#1	3732.5	2415.3	17067.	3129.6
#2	3721.1	2410.8	17092.	3099.6

Sample Name: 480-121376-e-1-b@10 Acquired: 7/26/2017 14:53:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.02923**	**.00238**	**.08887**	^ *****
Stddev	.00080	.01661	.00208	.00082	-----
%RSD	145.27	56.844	87.435	.92793	-----
#1	.00001	.04098	.00385	.08946	^ -----
#2	-.00111	.01748	.00091	.08829	^ -----
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**394.89**	F **-.00233**	**-.0100**	**-.00100**
Stddev	.00004	2.91	.00033	.0232	.00029
%RSD	33.371	.73643	14.054	231.8	28.703
#1	-.00015	392.83	-.00257	-.0264	-.00120
#2	-.00009	396.95	-.00210	.0064	-.00080
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			4.5000		
Low Limit			-.00200		

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00330**	**2.0661**	**4.8719**	**4.0122**
Stddev	.00034	.00189	.0124	.0364	.0027
%RSD	498.52	57.231	.59816	.74690	.06697
#1	-.00017	-.00196	2.0573	4.8462	4.0103
#2	.00031	-.00463	2.0748	4.8976	4.0141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121376-e-1-b@10 Acquired: 7/26/2017 14:53:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.758**	**.22445**	**.00016**	**904.71**	**-.00115**
Stddev	.028	.00002	.00018	1.59	.00005
%RSD	.12107	.00671	114.13	.17594	4.3445
#1	22.739	.22444	.00003	903.58	-.00118
#2	22.778	.22446	.00029	905.83	-.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.06638**	**.00082**	**-.00561**	**.10345**
Stddev	.00024	.00090	.00029	.00071	.00437
%RSD	25.317	1.3513	35.090	12.631	4.2287
#1	-.00111	.06701	.00062	-.00611	.10655
#2	-.00077	.06574	.00102	-.00511	.10036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**^ *******	**-.00102**	**-.00058**	**-.00051**
Stddev	.00034	-----	.00066	.00010	.00073
%RSD	96.834	-----	64.879	16.318	144.07
#1	-.00011	^ -----	-.00149	-.00065	.00001
#2	-.00059	^ -----	-.00055	-.00052	-.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121376-e-1-b@10 Acquired: 7/26/2017 14:53:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00321
Stddev	.00062
%RSD	19.473
#1	.00365
#2	.00277
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2557.8	1990.0	14436.	2962.6
Stddev	7.0	4.3	72.	10.5
%RSD	.27415	.21638	.50158	.35462
#1	2562.7	1993.0	14384.	2970.0
#2	2552.8	1986.9	14487.	2955.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.595%	82.568%	83.779%	93.017%
Range				

Sample Name: 480-121380-c-1-b@10 Acquired: 7/26/2017 14:57:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.02743**	**.00289**	**.01533**	F **67.324**
Stddev	.00014	.03441	.00317	.00004	.388
%RSD	119.57	125.42	109.92	.27206	.57688
#1	-.00002	.00310	.00064	.01536	67.050
#2	-.00021	.05176	.00513	.01530	67.599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**90.652**	**-.00088**	**-.0441**	**-.00036**
Stddev	.00012	.177	.00015	.0222	.00026
%RSD	288.77	.19572	17.185	50.38	71.410
#1	-.00013	90.778	-.00099	-.0598	-.00054
#2	.00004	90.527	-.00078	-.0284	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**-.00104**	**2.2429**	**.92714**	**.74795**
Stddev	.00010	.00070	.0046	.05062	.00086
%RSD	19.222	67.378	.20622	5.4594	.11450
#1	.00045	-.00054	2.2462	.96294	.74855
#2	.00059	-.00153	2.2396	.89135	.74734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121380-c-1-b@10 Acquired: 7/26/2017 14:57:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6762**	**.12223**	**-.00027**	**210.93**	**-.00022**
Stddev	.0248	.00045	.00014	.14	.00019
%RSD	.43707	.36660	52.635	.06685	85.961
#1	5.6938	.12255	-.00037	210.83	-.00036
#2	5.6587	.12191	-.00017	211.03	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00622**	**-.00032**	**.00187**	**.02166**
Stddev	.00022	.00247	.00041	.00083	.01099
%RSD	133.91	39.763	127.65	44.505	50.722
#1	.00001	.00797	-.00061	.00246	.01389
#2	.00032	.00447	-.00003	.00128	.02943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	F **25.496**	**-.00036**	**-.00038**	**-.00029**
Stddev	.00033	.123	.00064	.00020	.00025
%RSD	86.700	.48099	178.43	53.927	87.030
#1	-.00061	25.410	.00009	-.00052	-.00047
#2	-.00015	25.583	-.00081	-.00023	-.00011
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121380-c-1-b@10 Acquired: 7/26/2017 14:57:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00172
Stddev	.00046
%RSD	26.553
#1	.00205
#2	.00140
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3068.6	2209.0	15831.	3088.2
Stddev	4.4	4.2	6.	3.1
%RSD	.14358	.19145	.03826	.09976
#1	3071.7	2212.0	15826.	3090.4
#2	3065.4	2206.0	15835.	3086.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.294%	91.655%	91.875%	96.962%
Range				

Sample Name: 480-121380-c-1-b@100 Acquired: 7/26/2017 15:01:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.01384**	**.00154**	**.00366**	**7.0674**
Stddev	.00059	.00983	.00108	.00002	.0277
%RSD	94.355	71.007	70.182	.60410	.39248
#1	-.00104	.02080	.00230	.00365	7.0478
#2	-.00021	.00689	.00077	.00368	7.0870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**9.0468**	**-.00000**	**-.0333**	**-.00007**
Stddev	.00002	.0471	.00000	.0010	.00004
%RSD	41.468	.52062	2106.0	3.074	54.088
#1	-.00005	9.0134	-.00000	-.0340	-.00010
#2	-.00003	9.0801	.00000	-.0326	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00088**	**.22733**	**.09527**	**.07284**
Stddev	.00009	.00026	.00679	.02735	.00028
%RSD	404.16	29.160	2.9859	28.705	.38897
#1	.00008	-.00106	.23213	.11461	.07304
#2	-.00004	-.00070	.22253	.07593	.07264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121380-c-1-b@100 Acquired: 7/26/2017 15:01:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.57492**	**.01241**	**-.00007**	**20.637**	**-.00023**
Stddev	.00008	.00009	.00024	.072	.00033
%RSD	.01379	.70119	317.79	.35105	145.10
#1	.57486	.01247	-.00024	20.586	.00001
#2	.57497	.01235	.00009	20.688	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00373**	**.00046**	**.00072**	**.00631**
Stddev	.00077	.00206	.00035	.00316	.00835
%RSD	1408.7	55.330	75.615	439.67	132.22
#1	.00060	-.00518	.00071	-.00152	.00041
#2	-.00049	-.00227	.00022	.00296	.01221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**2.6504**	**-.00025**	**.00044**	**.00018**
Stddev	.00032	.0023	.00021	.00079	.00019
%RSD	423.30	.08608	84.465	177.78	105.52
#1	-.00015	2.6488	-.00039	-.00011	.00032
#2	.00030	2.6520	-.00010	.00100	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121380-c-1-b@100 Acquired: 7/26/2017 15:01:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00009
Stddev	.00039
%RSD	421.55
#1	.00037
#2	-.00019
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3535.6	2346.1	16662.	3161.4
Stddev	.3	3.1	9.	16.6
%RSD	.00809	.13224	.05680	.52571
#1	3535.8	2343.9	16655.	3173.1
#2	3535.4	2348.3	16669.	3149.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.821%	97.342%	96.699%	99.260%
Range				

Sample Name: BLANK Acquired: 7/26/2017 15:04:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00618**	**.00151**	**.00265**	**.00053**
Stddev	.00015	.00887	.00109	.00005	.00005
%RSD	624.96	143.50	72.037	1.7564	9.8993
#1	.00008	.01245	.00229	.00262	.00049
#2	-.00013	-.00009	.00074	.00268	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00203**	**.00079**	**-.0084**	**-.00056**
Stddev	.00006	.00347	.00002	.0059	.00001
%RSD	863.99	171.08	2.2829	70.67	1.6402
#1	.00004	.00042	.00081	-.0125	-.00056
#2	-.00005	-.00448	.00078	-.0042	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**-.00070**	**.00081**	**.05912**	**-.00221**
Stddev	.00044	.00109	.00110	.04779	.00123
%RSD	33.542	155.84	136.41	80.840	55.603
#1	.00164	.00007	.00159	.02532	-.00308
#2	.00101	-.00147	.00003	.09291	-.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:04:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.00001**	**.00038**	**.11736**	**-.00077**
Stddev	.00181	.00000	.00006	.00596	.00000
%RSD	471.86	29.975	15.335	5.0762	.31689
#1	-.00167	-.00001	.00042	.11315	-.00077
#2	.00090	-.00001	.00034	.12157	-.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**-.01178**	**.00395**	**.00188**	**.01377**
Stddev	.00017	.00110	.00194	.00248	.00061
%RSD	11.857	9.3557	49.001	131.85	4.4133
#1	.00152	-.01256	.00258	.00363	.01420
#2	.00128	-.01100	.00532	.00013	.01334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**.00007**	**-.00041**	**-.00473**	**-.00010**
Stddev	.00039	.00001	.00012	.00025	.00047
%RSD	25.335	19.030	30.201	5.3301	494.97
#1	.00181	.00008	-.00032	-.00455	-.00043
#2	.00126	.00006	-.00049	-.00491	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:04:51 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00006**
Stddev	.00024
%RSD	412.38
#1	.00011
#2	-.00023
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3460.0**	**2080.8**	**15845.**	**3071.0**
Stddev	8.8	2.0	23.	12.2
%RSD	.25450	.09628	.14582	.39697
#1	3466.2	2082.2	15828.	3062.4
#2	3453.7	2079.3	15861.	3079.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.791%	86.334%	91.957%	96.423%
Range				

Sample Name: 480-121453-c-1-b Acquired: 7/26/2017 15:08:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.00213**	k **.19789**	k **.01047**	**1.1016**	**.03939**
Stddev	.00173	.00445	.00017	.0023	.00009
%RSD	81.459	2.2491	1.5896	.20600	.24036
#1	k .00090	k .20104	k .01036	1.1000	.03945
#2	k .00336	k .19475	k .01059	1.1032	.03932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00007**	**196.30**	k **.00094**	F **-.5213**	k **-.00062**
Stddev	.00001	.31	.00026	.0156	.00019
%RSD	13.926	.15855	27.537	2.985	29.910
#1	k -.00007	196.08	k .00076	-.5323	k -.00075
#2	k -.00008	196.52	k .00112	-.5103	k -.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				3.000	
Low Limit				-.5000	

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.01658**	k **.00460**	**.00770**	**15.687**	**-.00151**
Stddev	.00037	.00089	.00134	.009	.00149
%RSD	2.2162	19.426	17.448	.05902	98.407
#1	k .01632	k .00397	.00675	15.694	-.00046
#2	k .01684	k .00524	.00865	15.681	-.00256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-c-1-b Acquired: 7/26/2017 15:08:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **31.865**	F **97.942**	**-.00649**	**208.46**	**.00346**
Stddev	.119	.334	.00009	.28	.00014
%RSD	.37394	.34104	1.4622	.13650	4.0268
#1	k 31.781	98.178	-.00656	208.26	.00356
#2	k 31.949	97.706	-.00642	208.66	.00336
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.01609**	**57.362**	k **-.00741**	k **.06414**	**9.1997**
Stddev	.00190	.105	.00097	.00128	.0198
%RSD	11.781	.18248	13.108	1.9991	.21486
#1	k .01475	57.288	k -.00672	k .06323	9.1857
#2	k .01743	57.436	k -.00809	k .06505	9.2136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.41013**	k **.00002**	k **.09519**	k **.00937**
Stddev	.00001	.00040	.00015	.00170	.00012
%RSD	.83026	.09652	829.19	1.7903	1.2541
#1	-.00119	.40985	k -.00009	k .09640	k .00929
#2	-.00121	.41041	k .00012	k .09399	k .00945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-c-1-b Acquired: 7/26/2017 15:08:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	k .00183
Stddev	.00020
%RSD	11.144
#1	k .00197
#2	k .00169
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3074.5	2285.2	15975.	3122.6
Stddev	1.7	3.8	20.	14.4
%RSD	.05476	.16733	.12327	.46244
#1	3075.7	2287.9	15989.	3132.8
#2	3073.3	2282.5	15961.	3112.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.453%	94.815%	92.711%	98.042%
Range				

Sample Name: 480-121453-d-2-b Acquired: 7/26/2017 15:11:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.02040**	k **.82656**	k **.05834**	**9.0947**	**.08811**
Stddev	.00117	.01158	.00058	.0046	.00010
%RSD	5.7380	1.4004	1.0004	.05025	.11185
#1	k .02122	k .81838	k .05793	9.0979	.08818
#2	k .01957	k .83475	k .05876	9.0914	.08804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00006**	**54.597**	k **.00390**	F **-3.213**	k **.00422**
Stddev	.00001	.048	.00004	.003	.00013
%RSD	10.171	.08843	.91624	.0924	3.0732
#1	k -.00007	54.631	k .00393	-3.211	k .00431
#2	k -.00006	54.563	k .00388	-3.215	k .00413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				3.000	
Low Limit				-.5000	

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.37392**	k **.02999**	**.02292**	**71.970**	**.00721**
Stddev	.00019	.00067	.00821	.120	.00040
%RSD	.05144	2.2421	35.824	.16698	5.5692
#1	k .37406	k .03047	.01711	72.055	.00749
#2	k .37379	k .02952	.02872	71.885	.00692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-d-2-b Acquired: 7/26/2017 15:11:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **48.339**	F **155.66**	F **-.03405**	**1325.1**	**.01225**
Stddev	.076	1.08	.00008	.6	.00013
%RSD	.15654	.69492	.22237	.04366	1.0255
#1	k 48.393	156.42	-.03410	1325.5	.01216
#2	k 48.286	154.89	-.03400	1324.7	.01234
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		45.000	4.5000		
Low Limit		-.00300	-.01000		

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **.09101**	F **153.25**	kF **-.04359**	k **.36563**	**10.431**
Stddev	.00075	.16	.00035	.00127	.121
%RSD	.82053	.10737	.79448	.34739	1.1617
#1	k .09154	153.37	k -.04384	k .36653	10.517
#2	k .09048	153.13	k -.04335	k .36473	10.346
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit		90.000	9.0000		
Low Limit		-.20000	-.02000		

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00194**	**.33859**	k **.00181**	k **.57185**	k **.04928**
Stddev	.00036	.00010	.00043	.00260	.00068
%RSD	18.710	.03089	23.892	.45523	1.3869
#1	-.00168	.33867	k .00150	k .57001	k .04880
#2	-.00220	.33852	k .00211	k .57369	k .04977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121453-d-2-b Acquired: 7/26/2017 15:11:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	k .00900
Stddev	.00126
%RSD	14.028
#1	k .00990
#2	k .00811
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2710.2	2229.2	14663.	2934.9
Stddev	5.6	3.1	9.	10.2
%RSD	.20581	.13901	.06362	.34759
#1	2714.2	2231.4	14656.	2927.7
#2	2706.3	2227.0	14670.	2942.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.684%	92.492%	85.098%	92.149%
Range				

Sample Name: lcsd 480-368367/13-a Acquired: 7/26/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93013**	**.02008**	**.92001**	**.01776**	**.96821**
Stddev	.00596	.00994	.00342	.00058	.00358
%RSD	.64055	49.482	.37205	3.2495	.36944
#1	.93434	.01305	.92243	.01817	.96568
#2	.92592	.02710	.91759	.01735	.97074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97527**	**.05479**	**.97602**	**-.0244**	**.89266**
Stddev	.00383	.00480	.00060	.0238	.00174
%RSD	.39292	8.7674	.06120	97.92	.19536
#1	.97256	.05139	.97644	-.0412	.89389
#2	.97798	.05819	.97560	-.0075	.89143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95185**	**1.0058**	**.00330**	**.03149**	**-.00072**
Stddev	.00201	.0030	.00149	.00845	.00055
%RSD	.21084	.30028	44.986	26.841	75.530
#1	.95327	1.0079	.00435	.02551	-.00111
#2	.95043	1.0036	.00225	.03747	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368367/13-a Acquired: 7/26/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00099**	**1.0112**	**.94240**	**.48594**	**.91649**
Stddev	.00168	.0040	.00228	.00380	.00040
%RSD	170.28	.39190	.24147	.78116	.04318
#1	-.00020	1.0140	.94401	.48863	.91621
#2	.00217	1.0084	.94080	.48326	.91677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93793**	**.01612**	**.95288**	**.92600**	**.08244**
Stddev	.00057	.00151	.00337	.00404	.00420
%RSD	.06100	9.3627	.35371	.43586	5.0888
#1	.93833	.01719	.95526	.92886	.07947
#2	.93752	.01505	.95050	.92315	.08541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.96903**	**.00005**	**.94884**	**.93148**
Stddev	.00020	.00208	.00014	.00135	.00619
%RSD	2152.7	.21479	281.21	.14214	.66487
#1	-.00015	.96755	-.00005	.94979	.93586
#2	.00014	.97050	.00015	.94788	.92710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368367/13-a Acquired: 7/26/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.95435
Stddev	.00377
%RSD	.39523
#1	.95701
#2	.95168
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3719.0	2407.3	17235.	3166.7
Stddev	2.9	2.7	45.	21.5
%RSD	.07681	.11122	.26034	.68047
#1	3721.0	2409.2	17204.	3182.0
#2	3716.9	2405.4	17267.	3151.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.737%	99.883%	100.03%	99.428%
Range				

Sample Name: BLANK Acquired: 7/26/2017 15:18:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00334**	**.00040**	**.00739**	**.00083**
Stddev	.00046	.01278	.00152	.00012	.00001
%RSD	180.07	382.39	381.39	1.6135	1.4734
#1	-.00058	.01238	.00147	.00748	.00082
#2	.00007	-.00570	-.00068	.00731	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00069**	**.00019**	**.0011**	**-.00014**
Stddev	.00005	.00102	.00008	.0017	.00001
%RSD	1858.5	146.89	41.153	155.3	9.0211
#1	-.00003	.00142	.00024	.0023	-.00013
#2	.00004	-.00003	.00013	-.0001	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00121**	**-.00050**	**.05443**	**-.00052**
Stddev	.00023	.00023	.00273	.01937	.00053
%RSD	473.38	19.154	543.31	35.580	102.60
#1	.00021	.00138	.00143	.06813	-.00090
#2	-.00011	.00105	-.00244	.04074	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:18:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	**.01212**	**.00015**	**.07793**	**-.00006**
Stddev	.00062	.00029	.00006	.00135	.00010
%RSD	50.304	2.3535	38.249	1.7370	163.36
#1	.00167	.01192	.00019	.07697	-.00013
#2	.00079	.01232	.00011	.07888	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.00445**	**.00145**	**.00197**	**.02152**
Stddev	.00031	.00235	.00148	.00139	.01516
%RSD	42.098	52.952	101.81	70.577	70.463
#1	-.00095	.00611	.00041	.00099	.01080
#2	-.00051	.00278	.00250	.00296	.03224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00052**	**.00051**	**.00167**	**.00036**
Stddev	.00019	.00001	.00002	.00018	.00020
%RSD	84.827	1.5395	3.9980	10.802	55.717
#1	-.00009	.00052	.00049	.00155	.00051
#2	-.00035	.00051	.00052	.00180	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:18:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00022**
Stddev	.00017
%RSD	77.109
#1	-.00034
#2	-.00010
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3702.1**	**2381.2**	**16909.**	**3117.5**
Stddev	7.5	6.2	57.	7.3
%RSD	.20125	.26094	.33549	.23296
#1	3696.9	2376.8	16869.	3122.6
#2	3707.4	2385.6	16949.	3112.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.286%	98.800%	98.133%	97.881%
Range				

Sample Name: BLANK Acquired: 7/26/2017 15:22:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.02090**	**.00052**	**.00546**	**.00058**
Stddev	.00072	.00569	.00178	.00032	.00004
%RSD	95.101	27.223	342.19	5.8714	6.6830
#1	-.00127	.01687	.00178	.00568	.00061
#2	-.00025	.02492	-.00074	.00523	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00506**	**.00011**	**-.0304**	**-.00004**
Stddev	.00008	.00103	.00006	.0084	.00014
%RSD	1822.3	20.445	52.317	27.66	378.85
#1	-.00005	.00433	.00007	-.0245	-.00013
#2	.00006	.00579	.00015	-.0364	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.00012**	**-.00070**	**-.01566**	**-.00092**
Stddev	.00050	.00040	.00028	.00668	.00082
%RSD	55.806	341.25	39.853	42.639	88.921
#1	.00054	-.00017	-.00050	-.01094	-.00150
#2	.00124	.00040	-.00089	-.02038	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:22:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00503**	**.00827**	**-.00005**	**.06403**	**-.00017**
Stddev	.00045	.00035	.00008	.00526	.00019
%RSD	9.0151	4.2416	143.94	8.2224	111.03
#1	.00471	.00852	.00000	.06775	-.00031
#2	.00535	.00802	-.00011	.06031	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00155**	**.00073**	**.00534**	**.01173**
Stddev	.00076	.00092	.00051	.00169	.00299
%RSD	273.15	59.819	70.079	31.590	25.454
#1	.00082	.00089	.00109	.00653	.00962
#2	-.00026	.00220	.00037	.00415	.01384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.00041**	**-.00014**	**.00133**	**.00041**
Stddev	.00017	.00004	.00003	.00056	.00051
%RSD	44.157	8.8617	22.183	42.021	125.44
#1	-.00050	.00038	-.00016	.00173	.00077
#2	-.00026	.00044	-.00012	.00094	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 15:22:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00021
Stddev	.00013
%RSD	63.762
#1	.00030
#2	.00011
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3695.7	2376.2	16960.	3124.7
Stddev	6.4	2.8	57.	6.1
%RSD	.17299	.11927	.33769	.19621
#1	3700.2	2378.2	17001.	3129.1
#2	3691.2	2374.2	16920.	3120.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.114%	98.591%	98.430%	98.109%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 15:25:51 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49933**	**25.306**	**.49768**	**.51551**	**.50787**
Stddev	.00313	.030	.00555	.00094	.00096
%RSD	.62594	.11950	1.1144	.18234	.18832
#1	.50154	25.284	.49375	.51484	.50855
#2	.49712	25.327	.50160	.51617	.50720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51453**	**25.015**	**.50991**	**-.0165**	**.49827**
Stddev	.00218	.093	.00030	.0026	.00000
%RSD	.42301	.37365	.05892	16.00	.00093
#1	.51299	24.949	.50970	-.0184	.49827
#2	.51607	25.081	.51013	-.0146	.49827
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51135**	**.52386**	**24.559**	**25.757**	**.51076**
Stddev	.00204	.00087	.151	.166	.00214
%RSD	.39867	.16560	.61445	.64330	.41874
#1	.51279	.52447	24.452	25.640	.50925
#2	.50991	.52325	24.665	25.874	.51228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 15:25:51 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.542**	**.53225**	**.50430**	**25.355**	**.50598**
Stddev	.052	.00188	.00014	.082	.00071
%RSD	.20502	.35310	.02726	.32175	.14125
#1	25.579	.53358	.50420	25.297	.50548
#2	25.505	.53092	.50440	25.412	.50649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49916**	**25.156**	**.50813**	**.50098**	**24.351**
Stddev	.00200	.002	.00169	.00137	.088
%RSD	.40073	.00770	.33171	.27276	.36088
#1	.49775	25.157	.50694	.50195	24.289
#2	.50058	25.154	.50933	.50001	24.413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50929**	**.49900**	**.50593**	**.50110**	**.50903**
Stddev	.00046	.00110	.00256	.00174	.00090
%RSD	.08937	.21965	.50629	.34766	.17680
#1	.50961	.49823	.50774	.50233	.50966
#2	.50896	.49978	.50412	.49987	.50839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 15:25:51 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50661
Stddev	.00388
%RSD	.76633
#1	.50936
#2	.50386
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3374.2	2352.8	16577.	3155.7
Stddev	2.0	1.4	120.	3.0
%RSD	.06073	.06152	.72646	.09601
#1	3372.8	2353.8	16491.	3157.9
#2	3375.7	2351.7	16662.	3153.6

Sample Name: CCB-4130963 Acquired: 7/26/2017 15:29:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00924**	**.00130**	**.00381**	**.00117**
Stddev	.00039	.01009	.00180	.00021	.00001
%RSD	191.12	109.18	138.56	5.4692	1.0647
#1	.00007	-.01638	.00003	.00396	.00116
#2	-.00048	-.00211	.00258	.00366	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00333**	**.00018**	**-.0189**	**-.00009**
Stddev	.00002	.00274	.00024	.0249	.00003
%RSD	23.444	82.442	137.27	131.3	31.143
#1	-.00007	.00527	.00035	-.0365	-.00007
#2	-.00010	.00139	.00001	-.0014	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00010**	**-.00133**	**.04092**	**.00070**
Stddev	.00050	.00055	.00087	.00149	.00122
%RSD	259.36	526.26	65.306	3.6296	172.69
#1	.00054	-.00049	-.00071	.03987	.00157
#2	-.00016	.00028	-.00194	.04197	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 15:29:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	F **.00618**	**.00004**	**.06621**	**.00018**
Stddev	.00133	.00013	.00003	.00907	.00022
%RSD	165.33	2.1435	88.049	13.701	122.87
#1	.00014	.00609	.00006	.07263	.00002
#2	-.00175	.00628	.00001	.05980	.00033
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.00432**	**.00047**	**.00120**	**-.00053**
Stddev	.00000	.00120	.00232	.00082	.00804
%RSD	.60182	27.851	492.37	68.920	1507.7
#1	-.00046	.00517	.00211	.00178	.00515
#2	-.00046	.00347	-.00117	.00061	-.00622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00083**	**.00012**	**.00028**	**.00010**
Stddev	.00011	.00001	.00059	.00030	.00008
%RSD	81.876	1.6756	502.61	106.49	78.247
#1	.00020	.00082	.00053	.00049	.00005
#2	.00005	.00084	-.00030	.00007	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 15:29:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00030
Stddev	.00006
%RSD	21.280
#1	.00034
#2	.00025
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3699.6	2385.4	17007.	3126.8
Stddev	1.2	2.0	93.	29.9
%RSD	.03324	.08409	.54948	.95752
#1	3700.4	2386.8	17073.	3105.6
#2	3698.7	2384.0	16941.	3148.0

Sample Name: CCVL-4147888 Acquired: 7/26/2017 15:32:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00485**	**.21499**	**.01466**	**.02358**	F **.00358**
Stddev	.00064	.01376	.00168	.00017	.00007
%RSD	13.098	6.4024	11.471	.71306	2.0731
#1	.00440	.20525	.01347	.02370	.00363
#2	.00530	.22472	.01585	.02347	.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value					.00200
Range					50.000%

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00212**	**.50081**	**.00225**	**.0066**	**.00359**
Stddev	.00001	.00397	.00007	.0019	.00002
%RSD	.49175	.79271	2.9043	28.00	.55164
#1	.00213	.50362	.00229	.0079	.00360
#2	.00211	.49801	.00220	.0053	.00358
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00492**	**.01250**	**.04826**	**.50258**	**.02964**
Stddev	.00014	.00029	.00082	.00421	.00062
%RSD	2.8543	2.3233	1.7011	.83714	2.0946
#1	.00482	.01230	.04884	.50555	.02920
#2	.00502	.01271	.04768	.49960	.03008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 15:32:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20699**	F **.00910**	**.01000**	**1.0611**	**.00959**
Stddev	.00168	.00025	.00008	.0040	.00004
%RSD	.81157	2.6925	.81296	.37757	.43262
#1	.20818	.00928	.01005	1.0583	.00956
#2	.20580	.00893	.00994	1.0640	.00962
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		.00300			
Range		50.000%			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00999**	**.19465**	**.02115**	**.02182**	**.50100**
Stddev	.00069	.00226	.00262	.00139	.01420
%RSD	6.8770	1.1600	12.392	6.3759	2.8349
#1	.01048	.19305	.01930	.02280	.49096
#2	.00951	.19624	.02300	.02083	.51105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00905**	**.00609**	**.00518**	**.02013**	**.00476**
Stddev	.00025	.00001	.00026	.00050	.00011
%RSD	2.7616	.13049	5.1088	2.4793	2.3299
#1	.00887	.00609	.00500	.01977	.00484
#2	.00923	.00608	.00537	.02048	.00469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 15:32:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01083
Stddev	.00013
%RSD	1.2207
#1	.01073
#2	.01092
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3709.1	2402.8	17053.	3141.2
Stddev	1.2	1.3	43.	19.0
%RSD	.03364	.05313	.25132	.60539
#1	3708.2	2403.7	17023.	3154.6
#2	3710.0	2401.9	17084.	3127.7

Sample Name: mb 480-368425/1-a Acquired: 7/26/2017 15:36:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.01337**	**-.00063**	**.00359**	**.00114**
Stddev	.00030	.01059	.00103	.00040	.00003
%RSD	91.909	79.169	165.22	11.229	2.9886
#1	-.00054	.02086	.00011	.00387	.00117
#2	-.00011	.00589	-.00136	.00330	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.03841**	**.00025**	**.0149**	**-.00011**
Stddev	.00005	.00427	.00005	.0217	.00003
%RSD	111.22	11.104	19.322	145.2	28.126
#1	-.00001	.04143	.00021	.0302	-.00009
#2	-.00008	.03540	.00028	-.0004	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00085**	**.01148**	**.04284**	**-.00106**
Stddev	.00025	.00009	.00049	.01054	.00134
%RSD	28.964	10.755	4.3065	24.602	126.93
#1	.00102	.00092	.01113	.03539	-.00011
#2	.00067	.00079	.01183	.05029	-.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368425/1-a Acquired: 7/26/2017 15:36:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00400**	F **.00406**	**.00010**	**.08748**	**.00032**
Stddev	.00247	.00002	.00005	.00741	.00016
%RSD	61.774	.41655	52.733	8.4704	49.725
#1	.00575	.00405	.00006	.09272	.00044
#2	.00226	.00407	.00014	.08224	.00021
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.01598**	**.00072**	**.00111**	**.20504**
Stddev	.00028	.00041	.00097	.00084	.00946
%RSD	40.964	2.5517	134.99	75.643	4.6123
#1	.00049	.01569	.00141	.00052	.19835
#2	.00089	.01627	.00003	.00171	.21173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04806**	**.00084**	**.00045**	**.00005**	**-.00025**
Stddev	.00041	.00008	.00049	.00059	.00031
%RSD	.85550	9.3960	110.77	1207.5	124.02
#1	.04835	.00079	.00079	-.00037	-.00003
#2	.04777	.00090	.00010	.00047	-.00047
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368425/1-a Acquired: 7/26/2017 15:36:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00258
Stddev	.00005
%RSD	1.9503
#1	.00255
#2	.00262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3750.5	2389.0	17188.	3185.8
Stddev	.3	1.1	24.	40.3
%RSD	.00906	.04614	.13898	1.2648
#1	3750.7	2389.8	17205.	3157.4
#2	3750.2	2388.2	17171.	3214.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.58%	99.123%	99.754%	100.03%
Range				

Sample Name: lcssrm 480-368425/2- Acquired: 7/26/2017 15:39:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48296**	**91.275**	**1.8018**	**.66128**	**3.6867**
Stddev	.00278	.372	.0019	.00070	.0069
%RSD	.57580	.40796	.10327	.10647	.18729
#1	.48099	91.012	1.8032	.66178	3.6915
#2	.48493	91.538	1.8005	.66078	3.6818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97367**	**52.993**	**1.0514**	**1.477**	**1.9552**
Stddev	.00020	.036	.0009	.010	.0008
%RSD	.02055	.06872	.08660	.6870	.03956
#1	.97381	53.019	1.0521	1.484	1.9558
#2	.97353	52.968	1.0508	1.470	1.9547
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.63749**	**.76274**	**136.93**	**28.880**	**.07065**
Stddev	.00397	.00173	.21	.035	.00067
%RSD	.62222	.22695	.15238	.12119	.94165
#1	.63468	.76396	137.08	28.855	.07112
#2	.64029	.76151	136.78	28.905	.07018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: lcssrm 480-368425/2- Acquired: 7/26/2017 15:39:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.654**	**4.2767**	**.54020**	**5.8339**	**1.7929**
Stddev	.062	.0153	.00038	.0113	.0015
%RSD	.22332	.35772	.07066	.19436	.08466
#1	27.610	4.2659	.54047	5.8419	1.7918
#2	27.697	4.2875	.53993	5.8259	1.7939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.79566**	**1.3221**	**.68097**	**.90047**	**1.8123**
Stddev	.00032	.0013	.00375	.00761	.0278
%RSD	.04084	.09526	.55105	.84502	1.5320
#1	.79589	1.3212	.68362	.90585	1.8319
#2	.79543	1.3229	.67831	.89509	1.7927
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94037**	**1.3100**	**4.0995**	**1.4033**	**1.3325**
Stddev	.00005	.0016	.0175	.0045	.0079
%RSD	.00525	.11914	.42630	.32007	.59195
#1	.94041	1.3089	4.0871	1.4064	1.3269
#2	.94034	1.3111	4.1118	1.4001	1.3381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcssrm 480-368425/2- Acquired: 7/26/2017 15:39:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.7796**
Stddev	.0190
%RSD	.68366
#1	2.7661
#2	2.7930
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3208.9**	**2688.7**	**19041.**	**3661.9**
Stddev	1.3	1.5	158.	10.4
%RSD	.04073	.05423	.82951	.28518
#1	3209.8	2687.7	19153.	3654.5
#2	3208.0	2689.7	18930.	3669.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.058%	111.56%	110.51%	114.97%
Range				

Sample Name: 480-121411-c-1-b Acquired: 7/26/2017 15:42:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09799**	**114.77**	**.03158**	**.09846**	**1.2093**
Stddev	.00019	.28	.00148	.00009	.0002
%RSD	.19107	.24514	4.7016	.09408	.01908
#1	.09786	114.57	.03262	.09853	1.2095
#2	.09812	114.97	.03053	.09840	1.2091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00468**	**78.790**	**.03002**	**.3685**	**.06742**
Stddev	.00001	.123	.00011	.0058	.00009
%RSD	.18354	.15617	.37488	1.576	.12942
#1	.00468	78.703	.02994	.3726	.06736
#2	.00469	78.877	.03010	.3644	.06748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34897**	**1.6223**	**151.43**	**12.069**	**.08934**
Stddev	.00010	.0018	.24	.049	.00128
%RSD	.02770	.10887	.16001	.40946	1.4309
#1	.34891	1.6235	151.26	12.103	.09025
#2	.34904	1.6210	151.60	12.034	.08844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-1-b Acquired: 7/26/2017 15:42:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.812**	**2.7411**	**.04527**	**1.6790**	**.76737**
Stddev	.090	.0003	.00008	.0029	.00040
%RSD	.22058	.00909	.16890	.17129	.05202
#1	40.749	2.7409	.04532	1.6811	.76709
#2	40.876	2.7413	.04521	1.6770	.76765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5731**	**1.0068**	**.05255**	**.00213**	**3.1559**
Stddev	.0011	.0050	.00143	.00047	.0143
%RSD	.04401	.50043	2.7225	22.028	.45204
#1	2.5723	1.0032	.05356	.00247	3.1659
#2	2.5739	1.0103	.05154	.00180	3.1458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2708**	**.21910**	**1.6954**	**-.00217**	**.19554**
Stddev	.0001	.00061	.0047	.00115	.00030
%RSD	.00762	.27811	.27959	53.187	.15293
#1	1.2709	.21867	1.6920	-.00135	.19532
#2	1.2708	.21953	1.6987	-.00299	.19575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-1-b Acquired: 7/26/2017 15:42:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.6471**
Stddev	.0024
%RSD	.09186
#1	2.6454
#2	2.6489
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3180.0**	**2703.7**	**18976.**	**3710.5**
Stddev	5.2	4.6	23.	7.8
%RSD	.16416	.16846	.12270	.21081
#1	3183.7	2706.9	18960.	3716.0
#2	3176.3	2700.5	18993.	3704.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.283%	112.18%	110.13%	116.50%
Range				

Sample Name: 480-121411-c-2-b Acquired: 7/26/2017 15:46:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00136**	**39.826**	**.01536**	**.06425**	**1.1455**
Stddev	.00023	.169	.00042	.00023	.0028
%RSD	17.244	.42543	2.7316	.36085	.24795
#1	-.00153	39.706	.01506	.06441	1.1434
#2	-.00119	39.946	.01565	.06408	1.1475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00164**	**338.48**	**.00143**	**.3075**	**.02539**
Stddev	.00012	1.05	.00005	.0121	.00008
%RSD	7.3347	.31131	3.8193	3.942	.32594
#1	.00155	337.73	.00139	.3161	.02533
#2	.00172	339.22	.00147	.2989	.02545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06321**	**.05684**	**80.934**	**11.073**	**.05204**
Stddev	.00057	.00154	.369	.079	.00062
%RSD	.89422	2.7162	.45545	.71090	1.1896
#1	.06281	.05575	80.674	11.018	.05160
#2	.06361	.05794	81.195	11.129	.05248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-2-b Acquired: 7/26/2017 15:46:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**128.67**	**2.9632**	**.00169**	**1.3578**	**.06039**
Stddev	.23	.0016	.00005	.0083	.00055
%RSD	.17521	.05302	3.0245	.60787	.90993
#1	128.51	2.9621	.00173	1.3520	.06078
#2	128.83	2.9643	.00166	1.3636	.06000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04949**	**1.0293**	**-.00058**	**.00044**	**3.3272**
Stddev	.00180	.0063	.00035	.00111	.0255
%RSD	3.6431	.61112	59.513	252.17	.76526
#1	.05077	1.0249	-.00083	.00123	3.3092
#2	.04822	1.0338	-.00034	-.00034	3.3452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05686**	**.34181**	**2.2889**	**-.00281**	**.15383**
Stddev	.00003	.00138	.0045	.00030	.00044
%RSD	.05152	.40338	.19573	10.657	.28424
#1	.05688	.34083	2.2857	-.00302	.15352
#2	.05684	.34278	2.2920	-.00260	.15413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-2-b Acquired: 7/26/2017 15:46:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.29081
Stddev	.00172
%RSD	.59026
#1	.28960
#2	.29203
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2980.8	2407.4	16989.	3423.7
Stddev	1.0	1.6	40.	26.0
%RSD	.03489	.06453	.23360	.75896
#1	2980.0	2406.3	17017.	3442.0
#2	2981.5	2408.5	16961.	3405.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.940%	99.888%	98.598%	107.50%
Range				

Sample Name: 480-121411-c-3-d Acquired: 7/26/2017 15:49:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**76.149**	**.02768**	**.07135**	**.30684**
Stddev	.00024	.420	.00144	.00032	.00053
%RSD	22.761	.55093	5.1852	.44385	.17212
#1	-.00088	75.853	.02667	.07157	.30721
#2	-.00122	76.446	.02870	.07113	.30647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00297**	**331.60**	**.00107**	**.3492**	**.04033**
Stddev	.00005	1.53	.00001	.0065	.00012
%RSD	1.8201	.46085	.77882	1.858	.28611
#1	.00293	332.68	.00108	.3447	.04041
#2	.00301	330.52	.00107	.3538	.04025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09908**	**.09691**	**104.19**	**13.018**	**.08501**
Stddev	.00110	.00053	.23	.035	.00116
%RSD	1.1113	.54433	.22538	.27134	1.3696
#1	.09986	.09728	104.03	12.993	.08419
#2	.09830	.09653	104.36	13.043	.08583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-d Acquired: 7/26/2017 15:49:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**105.58**	**2.5667**	**.00269**	**1.2413**	**.10992**
Stddev	.75	.0151	.00017	.0065	.00018
%RSD	.70804	.58861	6.4071	.52036	.16174
#1	106.11	2.5773	.00281	1.2368	.11004
#2	105.05	2.5560	.00256	1.2459	.10979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10396**	**1.7953**	**.00201**	**.00008**	**2.5673**
Stddev	.00092	.0034	.00060	.00187	.0096
%RSD	.88823	.18705	30.068	2271.7	.37254
#1	.10331	1.7977	.00243	.00141	2.5605
#2	.10461	1.7930	.00158	-.00124	2.5740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05877**	**.44055**	**2.0874**	**-.00259**	**.18637**
Stddev	.00045	.00199	.0123	.00216	.00156
%RSD	.76440	.45197	.58732	83.626	.83966
#1	.05909	.43914	2.0961	-.00106	.18747
#2	.05845	.44196	2.0787	-.00412	.18526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-d Acquired: 7/26/2017 15:49:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.34079**
Stddev	.00431
%RSD	1.2651
#1	.34384
#2	.33774
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2980.5**	**2461.3**	**17443.**	**3442.3**
Stddev	5.8	2.5	109.	4.5
%RSD	.19430	.10108	.62383	.13064
#1	2984.6	2463.1	17366.	3445.4
#2	2976.4	2459.6	17520.	3439.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.934%	102.12%	101.23%	108.08%
Range				

Sample Name: 480-121411-c-3-dSD@5 Acquired: 7/26/2017 15:53:08 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**16.442**	**.00596**	**.01813**	**.06673**
Stddev	.00073	.019	.00278	.00008	.00002
%RSD	50.118	.11461	46.731	.46134	.02417
#1	-.00197	16.429	.00793	.01818	.06674
#2	-.00094	16.455	.00399	.01807	.06672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**73.286**	**.00030**	**.0408**	**.00764**
Stddev	.00007	.139	.00001	.0313	.00011
%RSD	11.024	.18940	3.6877	76.83	1.4080
#1	.00057	73.188	.00031	.0630	.00771
#2	.00066	73.385	.00029	.0186	.00756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02202**	**.01889**	**23.371**	**2.7991**	**.01784**
Stddev	.00013	.00067	.131	.0065	.00078
%RSD	.61147	3.5675	.55977	.23193	4.3966
#1	.02193	.01937	23.279	2.7945	.01728
#2	.02212	.01841	23.464	2.8037	.01839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-dSD@5 Acquired: 7/26/2017 15:53:08 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.081**	**.57196**	**.00024**	**.29782**	**.02141**
Stddev	.005	.00050	.00024	.00624	.00002
%RSD	.02382	.08804	100.86	2.0939	.09589
#1	23.077	.57232	.00041	.30223	.02139
#2	23.085	.57160	.00007	.29341	.02142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01943**	**.38301**	**-.00145**	**-.00243**	**.54516**
Stddev	.00098	.00146	.00087	.00222	.02738
%RSD	5.0455	.38141	60.342	91.265	5.0215
#1	.02012	.38404	-.00083	-.00400	.52581
#2	.01874	.38198	-.00206	-.00086	.56452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01152**	**.09678**	**.45844**	**-.00061**	**.04156**
Stddev	.00011	.00019	.00280	.00081	.00103
%RSD	.91903	.19128	.61134	132.44	2.4718
#1	.01160	.09665	.46042	-.00004	.04228
#2	.01145	.09691	.45646	-.00119	.04083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-dSD@5 Acquired: 7/26/2017 15:53:08 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07815
Stddev	.00028
%RSD	.36458
#1	.07835
#2	.07794
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3392.4	2386.6	16860.	3201.5
Stddev	.6	1.1	3.	.9
%RSD	.01875	.04658	.01634	.02679
#1	3392.8	2387.4	16858.	3200.9
#2	3391.9	2385.8	16862.	3202.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.979%	99.024%	97.849%	100.52%
Range				

Sample Name: 480-121411-c-3-d PDS Acquired: 7/26/2017 15:56:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08778**	**93.216**	**.37884**	**.42274**	**.67041**
Stddev	.00103	.063	.00350	.00049	.00053
%RSD	1.1750	.06739	.92478	.11677	.07891
#1	.08851	93.171	.37637	.42309	.67079
#2	.08705	93.260	.38132	.42239	.67004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36976**	**334.58**	**.37677**	**.3160**	**.43543**
Stddev	.00003	2.13	.00010	.0159	.00052
%RSD	.00875	.63645	.02598	5.023	.12049
#1	.36974	336.08	.37684	.3272	.43506
#2	.36978	333.07	.37670	.3048	.43581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44533**	**.49081**	**118.39**	**32.246**	**.46700**
Stddev	.00191	.00201	.18	.028	.00009
%RSD	.42823	.41025	.14807	.08754	.01913
#1	.44668	.48939	118.26	32.226	.46706
#2	.44398	.49223	118.51	32.266	.46693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-d PDS Acquired: 7/26/2017 15:56:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**121.54**	**2.8608**	**.35034**	**19.923**	**.50728**
Stddev	.23	.0069	.00185	.001	.00002
%RSD	.19104	.24202	.52947	.00370	.00489
#1	121.71	2.8657	.35165	19.923	.50726
#2	121.38	2.8559	.34903	19.922	.50729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50949**	**1.7651**	**.37293**	**.35739**	**7.2655**
Stddev	.00096	.0024	.00306	.00515	.0880
%RSD	.18798	.13483	.81959	1.4404	1.2110
#1	.50881	1.7634	.37077	.36103	7.3278
#2	.51017	1.7667	.37509	.35375	7.2033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05875**	**.79287**	**2.5103**	**.38298**	**.54502**
Stddev	.00097	.00048	.0136	.00081	.00274
%RSD	1.6477	.06051	.53996	.21136	.50329
#1	.05806	.79321	2.5199	.38241	.54696
#2	.05943	.79253	2.5007	.38355	.54308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-d PDS Acquired: 7/26/2017 15:56:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.67135
Stddev	.00014
%RSD	.02156
#1	.67145
#2	.67125
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2921.3	2437.9	17303.	3442.3
Stddev	3.7	6.1	27.	9.4
%RSD	.12648	.25117	.15449	.27264
#1	2918.7	2433.6	17322.	3435.7
#2	2924.0	2442.2	17284.	3448.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.346%	101.15%	100.42%	108.08%
Range				

Sample Name: 480-121411-c-3-e ms Acquired: 7/26/2017 15:59:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08320**	**114.52**	**.35372**	**.44657**	**.74942**
Stddev	.00072	.15	.00283	.00079	.00065
%RSD	.86228	.13224	.79977	.17680	.08665
#1	.08269	114.41	.35572	.44712	.74896
#2	.08371	114.62	.35172	.44601	.74988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34404**	**349.16**	**.35225**	**.3660**	**.41508**
Stddev	.00029	1.56	.00104	.0258	.00000
%RSD	.08328	.44748	.29499	7.056	.00079
#1	.34425	348.05	.35298	.3843	.41508
#2	.34384	350.26	.35151	.3478	.41509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44360**	**.48058**	**112.79**	**42.988**	**.44103**
Stddev	.00013	.00033	.22	.044	.00213
%RSD	.02872	.06791	.19229	.10303	.48305
#1	.44369	.48035	112.64	42.957	.43952
#2	.44351	.48081	112.94	43.019	.44253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-e ms Acquired: 7/26/2017 15:59:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**116.60**	**2.9807**	**.32472**	**19.667**	**.47510**
Stddev	.50	.0089	.00067	.003	.00061
%RSD	.43229	.29792	.20783	.01502	.12867
#1	116.96	2.9870	.32520	19.665	.47553
#2	116.25	2.9744	.32425	19.669	.47466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47489**	**25.174**	**.29924**	**.33828**	**4.9092**
Stddev	.00377	.062	.00019	.00020	.0016
%RSD	.79448	.24722	.06234	.05952	.03225
#1	.47222	25.218	.29937	.33843	4.9103
#2	.47755	25.130	.29911	.33814	4.9081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45061**	**.86817**	**3.6234**	**.36292**	**.56277**
Stddev	.00015	.00044	.0103	.00019	.00072
%RSD	.03240	.05095	.28437	.05109	.12844
#1	.45050	.86785	3.6307	.36279	.56328
#2	.45071	.86848	3.6162	.36305	.56226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-e ms Acquired: 7/26/2017 15:59:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.62000
Stddev	.00400
%RSD	.64498
#1	.62283
#2	.61717
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2900.4	2472.2	17387.	3489.6
Stddev	6.3	10.9	50.	5.9
%RSD	.21749	.43964	.28844	.16973
#1	2895.9	2464.5	17352.	3493.8
#2	2904.8	2479.9	17423.	3485.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.784%	102.58%	100.91%	109.57%
Range				

Sample Name: 480-121411-c-3-f msd Acquired: 7/26/2017 16:03:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08144**	**121.72**	**.34351**	**.45328**	**.77136**
Stddev	.00180	.40	.00248	.00068	.00311
%RSD	2.2162	.32681	.72261	.14903	.40336
#1	.08272	121.44	.34175	.45281	.76916
#2	.08017	122.00	.34526	.45376	.77356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33688**	**403.07**	**.34630**	**.3406**	**.40065**
Stddev	.00131	2.53	.00037	.0309	.00042
%RSD	.38945	.62738	.10685	9.066	.10550
#1	.33596	401.28	.34604	.3188	.40035
#2	.33781	404.86	.34656	.3624	.40095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43328**	**.46692**	**109.43**	**46.996**	**.43766**
Stddev	.00127	.00217	.73	.227	.00021
%RSD	.29403	.46572	.67161	.48380	.04760
#1	.43418	.46538	108.91	46.836	.43780
#2	.43238	.46845	109.95	47.157	.43751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-f msd Acquired: 7/26/2017 16:03:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**115.38**	**2.8494**	**.31521**	**19.194**	**.46386**
Stddev	.03	.0023	.00019	.059	.00007
%RSD	.02546	.08091	.06074	.30548	.01607
#1	115.40	2.8510	.31535	19.153	.46381
#2	115.36	2.8478	.31508	19.236	.46391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44251**	**18.577**	**.27594**	**.32668**	**3.8879**
Stddev	.00098	.030	.00052	.00280	.0343
%RSD	.22126	.16290	.18787	.85642	.88305
#1	.44320	18.598	.27557	.32866	3.8636
#2	.44182	18.556	.27631	.32470	3.9122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43902**	**.96964**	**2.8804**	**.35828**	**.54650**
Stddev	.00217	.00164	.0014	.00305	.00300
%RSD	.49517	.16889	.04868	.85113	.54904
#1	.44056	.96848	2.8813	.36043	.54862
#2	.43749	.97080	2.8794	.35612	.54438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-3-f msd Acquired: 7/26/2017 16:03:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.59988
Stddev	.00281
%RSD	.46872
#1	.60187
#2	.59790
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2879.9	2456.5	17269.	3456.5
Stddev	1.8	4.5	59.	8.8
%RSD	.06328	.18516	.34086	.25352
#1	2881.2	2459.7	17227.	3462.7
#2	2878.6	2453.2	17310.	3450.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.235%	101.92%	100.22%	108.53%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:06:47 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49003**	**25.224**	**.49120**	**.51444**	**.51350**
Stddev	.00017	.114	.00016	.00049	.00157
%RSD	.03474	.45266	.03266	.09514	.30654
#1	.49015	25.143	.49131	.51409	.51461
#2	.48991	25.305	.49108	.51479	.51239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51816**	**25.041**	**.51102**	**-.0249**	**.49901**
Stddev	.00134	.082	.00017	.0123	.00059
%RSD	.25904	.32750	.03361	49.27	.11902
#1	.51721	24.983	.51114	-.0335	.49859
#2	.51910	25.099	.51090	-.0162	.49943
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50256**	**.53450**	**24.538**	**26.244**	**.51529**
Stddev	.00193	.00280	.069	.078	.00089
%RSD	.38382	.52307	.28266	.29815	.17367
#1	.50120	.53647	24.489	26.188	.51465
#2	.50392	.53252	24.587	26.299	.51592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:06:47 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.618**	**.53006**	**.50110**	**25.710**	**.50763**
Stddev	.140	.00279	.00099	.046	.00035
%RSD	.54480	.52629	.19712	.18001	.06801
#1	25.717	.53204	.50040	25.677	.50788
#2	25.520	.52809	.50180	25.742	.50739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49825**	**25.102**	**.50830**	**.49333**	**24.208**
Stddev	.00289	.028	.00349	.00210	.012
%RSD	.57937	.11002	.68726	.42485	.05085
#1	.50029	25.082	.50583	.49481	24.199
#2	.49621	25.122	.51077	.49184	24.216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50867**	**.49883**	**.49999**	**.49573**	**.50218**
Stddev	.00040	.00137	.00056	.00147	.00094
%RSD	.07846	.27467	.11140	.29561	.18694
#1	.50895	.49786	.49959	.49677	.50151
#2	.50839	.49980	.50038	.49469	.50284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:06:47 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50509
Stddev	.00279
%RSD	.55192
#1	.50706
#2	.50311
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3372.8	2351.6	16540.	3118.2
Stddev	1.3	.0	21.	11.1
%RSD	.03805	.00112	.12896	.35505
#1	3373.7	2351.6	16555.	3126.1
#2	3371.9	2351.6	16525.	3110.4

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:09:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00491**	**.00063**	**.00197**	**.00053**
Stddev	.00047	.02583	.00107	.00018	.00002
%RSD	139.39	525.98	170.02	9.2933	4.0764
#1	-.00068	.02317	.00138	.00210	.00054
#2	-.00000	-.01335	-.00013	.00184	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.02638**	**.00009**	**-.0154**	**-.00002**
Stddev	.00005	.00045	.00002	.0081	.00017
%RSD	74.186	1.6940	18.712	52.26	930.39
#1	-.00010	.02669	.00010	-.0211	.00010
#2	-.00003	.02606	.00008	-.0097	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00123**	**.01233**	**.05727**	**-.00078**
Stddev	.00010	.00021	.00197	.01537	.00004
%RSD	12.564	17.035	15.972	26.838	5.6802
#1	.00070	.00138	.01373	.06813	-.00074
#2	.00084	.00108	.01094	.04640	-.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:09:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01066**	**.00100**	**.00001**	**.03528**	**-.00015**
Stddev	.00325	.00004	.00019	.01442	.00052
%RSD	30.457	4.4836	1370.6	40.878	351.97
#1	.01296	.00097	.00015	.02508	-.00051
#2	.00836	.00103	-.00012	.04548	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00242**	**-.00052**	**.00239**	**.00940**
Stddev	.00015	.00054	.00089	.00051	.00849
%RSD	25.719	22.480	171.27	21.518	90.348
#1	.00071	.00204	.00011	.00203	.00339
#2	.00049	.00281	-.00114	.00275	.01540
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00040**	**.00033**	**.00074**	**.00004**
Stddev	.00024	.00005	.00059	.00037	.00005
%RSD	101.96	12.635	182.67	50.358	124.83
#1	-.00007	.00036	-.00009	.00048	.00007
#2	-.00041	.00043	.00074	.00101	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:09:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00047
Stddev	.00023
%RSD	49.382
#1	.00030
#2	.00063
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3703.6	2380.6	16951.	3096.0
Stddev	3.9	1.3	87.	.9
%RSD	.10490	.05428	.51566	.02772
#1	3700.8	2379.7	16890.	3095.4
#2	3706.3	2381.5	17013.	3096.6

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:13:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00488**	**.21485**	**.01561**	**.02194**	**.00246**
Stddev	.00053	.00342	.00018	.00008	.00000
%RSD	10.842	1.5937	1.1531	.37832	.07028
#1	.00451	.21243	.01548	.02200	.00246
#2	.00526	.21727	.01573	.02188	.00246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	**.51752**	**.00215**	**-.0360**	**.00380**
Stddev	.00003	.00170	.00000	.0142	.00008
%RSD	1.4033	.32901	.10003	39.51	2.0295
#1	.00222	.51631	.00215	-.0259	.00375
#2	.00217	.51872	.00215	-.0460	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00446**	**.01156**	**.05600**	**.54180**	**.03030**
Stddev	.00031	.00024	.00066	.01598	.00028
%RSD	6.9994	2.0336	1.1752	2.9500	.92695
#1	.00468	.01139	.05553	.55310	.03010
#2	.00424	.01172	.05647	.53050	.03050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:13:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21252**	**.00371**	**.01004**	**1.0452**	**.00979**
Stddev	.00027	.00009	.00004	.0014	.00022
%RSD	.12633	2.3775	.41946	.12918	2.2898
#1	.21233	.00365	.01007	1.0443	.00964
#2	.21271	.00378	.01001	1.0462	.00995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00972**	**.19644**	**.02149**	**.02903**	**.49777**
Stddev	.00090	.00117	.00213	.00275	.00251
%RSD	9.2828	.59453	9.8966	9.4872	.50409
#1	.01035	.19562	.02300	.03098	.49600
#2	.00908	.19727	.01999	.02708	.49955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00912**	**.00513**	**.00501**	**.01991**	**.00507**
Stddev	.00015	.00001	.00012	.00005	.00014
%RSD	1.6311	.14495	2.4750	.24435	2.8248
#1	.00901	.00513	.00510	.01987	.00518
#2	.00922	.00512	.00492	.01994	.00497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:13:28 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01110
Stddev	.00046
%RSD	4.1147
#1	.01077
#2	.01142
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3721.7	2411.5	17072.	3123.0
Stddev	7.9	5.1	14.	10.9
%RSD	.21150	.21088	.08022	.34771
#1	3727.3	2415.1	17082.	3115.3
#2	3716.2	2407.9	17063.	3130.7

Sample Name: 480-121411-c-4-b Acquired: 7/26/2017 16:16:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06489**	**85.679**	**.05118**	**.12642**	**1.5492**
Stddev	.00125	.364	.00171	.00023	.0027
%RSD	1.9323	.42474	3.3437	.18381	.17290
#1	.06401	85.936	.05239	.12625	1.5473
#2	.06578	85.422	.04997	.12658	1.5511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00352**	**221.57**	**.05393**	**.2767**	**.05264**
Stddev	.00004	.58	.00017	.0528	.00012
%RSD	1.2112	.26244	.32375	19.10	.22224
#1	.00349	221.98	.05406	.3141	.05255
#2	.00355	221.16	.05381	.2393	.05272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28288**	**7.2547**	**184.45**	**8.4933**	**.05977**
Stddev	.00042	.0070	.13	.0857	.00221
%RSD	.14989	.09620	.07141	1.0086	3.7007
#1	.28258	7.2498	184.36	8.4327	.05821
#2	.28318	7.2596	184.55	8.5538	.06134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-4-b Acquired: 7/26/2017 16:16:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**93.811**	**3.8560**	**.05176**	**1.5990**	**.33349**
Stddev	.071	.0016	.00014	.0062	.00020
%RSD	.07587	.04162	.27873	.38635	.06101
#1	93.761	3.8548	.05166	1.6034	.33364
#2	93.861	3.8571	.05186	1.5946	.33335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4029**	**1.7798**	**.05481**	**.00565**	**7.2417**
Stddev	.0004	.0004	.00019	.00306	.0622
%RSD	.02474	.02430	.34419	54.166	.85880
#1	1.4031	1.7795	.05467	.00782	7.2856
#2	1.4026	1.7801	.05494	.00349	7.1977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17710**	**.36527**	**1.7226**	**.00059**	**.15518**
Stddev	.00085	.00059	.0040	.00030	.00138
%RSD	.48263	.16248	.23450	51.048	.88644
#1	.17650	.36569	1.7197	.00081	.15421
#2	.17771	.36485	1.7254	.00038	.15615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121411-c-4-b Acquired: 7/26/2017 16:16:57 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**3.1651**
Stddev	.0006
%RSD	.01980
#1	3.1655
#2	3.1646
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3017.4**	**2414.6**	**17166.**	**3367.9**
Stddev	3.3	1.5	43.	10.0
%RSD	.11010	.06029	.24884	.29656
#1	3015.0	2413.6	17136.	3360.9
#2	3019.7	2415.7	17196.	3375.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.922%	100.19%	99.626%	105.75%
Range				

Sample Name: 480-121458-c-2-a Acquired: 7/26/2017 16:20:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**107.88**	**.02477**	**.10331**	**.63556**
Stddev	.00040	.21	.00323	.00026	.00346
%RSD	27.736	.19260	13.025	.24779	.54473
#1	-.00174	107.73	.02705	.10312	.63801
#2	-.00117	108.03	.02249	.10349	.63312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00408**	**51.671**	**.00034**	**.4155**	**.03827**
Stddev	.00001	.165	.00002	.0319	.00038
%RSD	.14675	.32000	6.7997	7.679	1.0035
#1	.00408	51.554	.00032	.3930	.03854
#2	.00409	51.788	.00036	.4381	.03800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12394**	**.09354**	**117.92**	**19.282**	**.11356**
Stddev	.00101	.00084	.35	.060	.00010
%RSD	.81326	.89850	.29940	.31287	.08822
#1	.12466	.09413	117.68	19.240	.11349
#2	.12323	.09294	118.17	19.325	.11363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-c-2-a Acquired: 7/26/2017 16:20:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.019**	**2.1345**	**.00079**	**2.1322**	**.10471**
Stddev	.012	.0045	.00001	.0128	.00075
%RSD	.04599	.21125	.83642	.59942	.71913
#1	25.027	2.1313	.00079	2.1232	.10525
#2	25.011	2.1377	.00078	2.1412	.10418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11495**	**.53432**	**.00009**	**.00349**	**2.5182**
Stddev	.00026	.00247	.00041	.00072	.0433
%RSD	.22238	.46161	482.51	20.737	1.7207
#1	.11477	.53606	-.00021	.00298	2.5489
#2	.11513	.53257	.00038	.00400	2.4876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05843**	**.14769**	**1.7792**	**-.00273**	**.19504**
Stddev	.00083	.00063	.0020	.00084	.00052
%RSD	1.4120	.42690	.11240	30.691	.26714
#1	.05902	.14724	1.7806	-.00214	.19541
#2	.05785	.14813	1.7777	-.00333	.19467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-c-2-a Acquired: 7/26/2017 16:20:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.32512
Stddev	.00123
%RSD	.37798
#1	.32599
#2	.32425
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3242.0	2811.6	19744.	3779.7
Stddev	5.7	.1	37.	4.0
%RSD	.17469	.00309	.18798	.10583
#1	3246.0	2811.7	19770.	3782.5
#2	3238.0	2811.5	19718.	3776.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.946%	116.66%	114.59%	118.67%
Range				

Sample Name: 480-121458-a-4-a Acquired: 7/26/2017 16:23:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**9.7302**	**.02554**	**.06232**	**.06288**
Stddev	.00004	.0240	.00112	.00058	.00037
%RSD	7.8352	.24720	4.3760	.92693	.59285
#1	-.00046	9.7472	.02475	.06273	.06262
#2	-.00051	9.7132	.02633	.06192	.06315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**863.40**	**.01163**	**.0637**	**.00513**
Stddev	.00002	6.93	.00019	.0049	.00016
%RSD	4.6886	.80229	1.6252	7.740	3.0349
#1	.00052	868.29	.01177	.0672	.00502
#2	.00048	858.50	.01150	.0602	.00524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02429**	**.01701**	**31.907**	**5.2729**	**-.00878**
Stddev	.00029	.00015	.193	.0072	.00149
%RSD	1.2039	.89180	.60399	.13627	16.980
#1	.02450	.01712	32.043	5.2678	-.00984
#2	.02409	.01690	31.770	5.2780	-.00773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-a-4-a Acquired: 7/26/2017 16:23:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **559.45**	**1.4214**	**.00325**	**1.4476**	**.03873**
Stddev	2.04	.0004	.00032	.0100	.00089
%RSD	.36535	.02632	9.9087	.68786	2.3041
#1	560.90	1.4211	.00302	1.4546	.03810
#2	558.00	1.4217	.00347	1.4405	.03936
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	450.00				
Low Limit	-.20000				

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44876**	**35.997**	**.00096**	**-.00033**	**1.8894**
Stddev	.00055	.010	.00032	.00187	.0116
%RSD	.12155	.02896	32.819	561.72	.61282
#1	.44837	36.004	.00119	.00099	1.8976
#2	.44914	35.990	.00074	-.00166	1.8812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04245**	**.36542**	**.07661**	**.00123**	**.11132**
Stddev	.00028	.00178	.00052	.00309	.00055
%RSD	.66331	.48755	.68018	250.57	.49810
#1	.04265	.36668	.07624	-.00095	.11171
#2	.04225	.36416	.07698	.00342	.11093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-a-4-a Acquired: 7/26/2017 16:23:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.1841**
Stddev	.0010
%RSD	.04629
#1	2.1833
#2	2.1848
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2689.2**	**2105.7**	**15128.**	**3119.1**
Stddev	4.5	3.0	4.	1.2
%RSD	.16904	.14412	.02961	.03707
#1	2685.9	2103.5	15131.	3118.3
#2	2692.4	2107.8	15124.	3119.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.119%	87.368%	87.795%	97.932%
Range				

Sample Name: 480-121458-c-5-a Acquired: 7/26/2017 16:27:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00102**	**61.364**	**.03562**	**.08231**	**.61815**
Stddev	.00248	.110	.00162	.00031	.00049
%RSD	243.66	.17931	4.5388	.37381	.07884
#1	.00074	61.286	.03448	.08252	.61780
#2	-.00278	61.442	.03676	.08209	.61849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00270**	**265.83**	**.00979**	**.3472**	**.03991**
Stddev	.00008	2.83	.00017	.0157	.00024
%RSD	2.8789	1.0652	1.7630	4.517	.59957
#1	.00264	263.83	.00991	.3361	.04008
#2	.00275	267.83	.00967	.3583	.03974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08256**	**.21483**	**102.82**	**14.909**	**.05962**
Stddev	.00040	.00034	.65	.110	.00085
%RSD	.48847	.15873	.63032	.73518	1.4273
#1	.08285	.21507	102.36	14.831	.05902
#2	.08228	.21459	103.28	14.986	.06022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-c-5-a Acquired: 7/26/2017 16:27:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.233**	**5.1410**	**.00259**	**1.1282**	**.09604**
Stddev	.073	.0022	.00018	.0113	.00142
%RSD	.10750	.04324	6.7645	.99676	1.4811
#1	68.285	5.1394	.00272	1.1202	.09503
#2	68.181	5.1425	.00247	1.1362	.09704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6283**	**1.9737**	**.00261**	**.00175**	**3.1434**
Stddev	.0018	.0027	.00021	.00126	.0012
%RSD	.06809	.13403	8.1669	71.763	.03861
#1	2.6296	1.9718	.00276	.00086	3.1425
#2	2.6271	1.9756	.00246	.00264	3.1443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07816**	**.37809**	**1.2910**	**-.00111**	**.13513**
Stddev	.00044	.00182	.0042	.00096	.00103
%RSD	.56083	.48015	.32306	86.472	.76382
#1	.07847	.37681	1.2881	-.00043	.13440
#2	.07785	.37938	1.2940	-.00180	.13586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-c-5-a Acquired: 7/26/2017 16:27:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.3541
Stddev	.0025
%RSD	.18509
#1	1.3559
#2	1.3523
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3046.2	2503.6	17709.	3456.5
Stddev	1.8	2.1	38.	11.9
%RSD	.05946	.08422	.21293	.34381
#1	3044.9	2502.1	17736.	3464.9
#2	3047.5	2505.1	17682.	3448.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.694%	103.88%	102.78%	108.53%
Range				

Sample Name: 480-121458-d-6-a Acquired: 7/26/2017 16:30:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**69.445**	**.03490**	**.14191**	**.67420**
Stddev	.00009	.132	.00127	.00037	.00002
%RSD	27.765	.18947	3.6435	.26422	.00260
#1	-.00025	69.352	.03580	.14217	.67421
#2	-.00037	69.538	.03400	.14164	.67419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00285**	**388.75**	**.00322**	**.3658**	**.04058**
Stddev	.00007	4.21	.00024	.0107	.00003
%RSD	2.5297	1.0836	7.5153	2.929	.08529
#1	.00280	385.77	.00304	.3734	.04055
#2	.00290	391.73	.00339	.3583	.04060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08902**	**.19654**	**91.693**	**18.279**	**.07712**
Stddev	.00033	.00070	.777	.117	.00024
%RSD	.37457	.35660	.84741	.63879	.31540
#1	.08879	.19703	91.143	18.196	.07695
#2	.08926	.19604	92.242	18.362	.07729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-d-6-a Acquired: 7/26/2017 16:30:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**88.075**	**4.0539**	**.00139**	**2.8902**	**.09078**
Stddev	.030	.0008	.00037	.0196	.00089
%RSD	.03448	.01933	26.847	.67816	.98489
#1	88.053	4.0533	.00166	2.8763	.09015
#2	88.096	4.0544	.00113	2.9041	.09141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2820**	**5.0156**	**-.00046**	**.00222**	**3.8623**
Stddev	.0011	.0088	.00007	.00186	.0078
%RSD	.08921	.17523	16.307	83.748	.20177
#1	1.2812	5.0218	-.00051	.00091	3.8678
#2	1.2829	5.0093	-.00041	.00354	3.8567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07270**	**.76981**	**1.2296**	**-.00342**	**.14510**
Stddev	.00061	.00232	.0028	.00123	.00138
%RSD	.83847	.30114	.22663	35.919	.95078
#1	.07313	.76817	1.2276	-.00429	.14413
#2	.07227	.77145	1.2316	-.00256	.14608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-d-6-a Acquired: 7/26/2017 16:30:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0505
Stddev	.0029
%RSD	.27787
#1	1.0484
#2	1.0526
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2953.5	2451.4	17316.	3485.4
Stddev	.1	3.5	19.	30.8
%RSD	.00428	.14094	.11083	.88265
#1	2953.6	2448.9	17329.	3507.2
#2	2953.5	2453.8	17302.	3463.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.209%	101.71%	100.49%	109.43%
Range				

Sample Name: 480-121458-d-8-a Acquired: 7/26/2017 16:34:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00230**	**128.50**	**.04460**	**.07675**	**.73310**
Stddev	.00089	.49	.00388	.00024	.00044
%RSD	38.776	.38459	8.7056	.30700	.05989
#1	-.00293	128.15	.04735	.07658	.73341
#2	-.00167	128.85	.04186	.07691	.73279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00545**	**42.702**	**.00113**	**.4945**	**.08543**
Stddev	.00010	.127	.00016	.0168	.00050
%RSD	1.8087	.29682	14.071	3.401	.58502
#1	.00552	42.612	.00102	.5064	.08578
#2	.00538	42.791	.00125	.4826	.08508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14755**	**.15901**	**159.32**	**19.013**	**.15515**
Stddev	.00063	.00026	.01	.065	.00150
%RSD	.42498	.16325	.00627	.34351	.96643
#1	.14799	.15920	159.33	18.966	.15409
#2	.14710	.15883	159.31	19.059	.15621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-d-8-a Acquired: 7/26/2017 16:34:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.171**	**2.8779**	**.00218**	**1.2754**	**.18562**
Stddev	.104	.0013	.00019	.0060	.00003
%RSD	.30414	.04431	8.8938	.47043	.01390
#1	34.244	2.8788	.00232	1.2712	.18563
#2	34.097	2.8770	.00204	1.2797	.18560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82005**	**1.0332**	**-.00053**	**.00498**	**3.0456**
Stddev	.00356	.0026	.00045	.00088	.0223
%RSD	.43418	.24716	83.650	17.615	.73208
#1	.82257	1.0350	-.00085	.00560	3.0298
#2	.81753	1.0314	-.00022	.00436	3.0613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06478**	**.17062**	**1.4267**	**-.00253**	**.23029**
Stddev	.00051	.00092	.0025	.00064	.00133
%RSD	.78839	.53733	.17431	25.392	.57917
#1	.06514	.16997	1.4285	-.00299	.23124
#2	.06442	.17127	1.4250	-.00208	.22935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-d-8-a Acquired: 7/26/2017 16:34:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.66597
Stddev	.00190
%RSD	.28456
#1	.66731
#2	.66463
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3252.7	2711.1	18961.	3656.5
Stddev	.0	.3	43.	21.2
%RSD	.00045	.01016	.22425	.57913
#1	3252.7	2711.3	18991.	3671.5
#2	3252.7	2710.9	18930.	3641.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.233%	112.49%	110.04%	114.81%
Range				

Sample Name: 480-121458-b-13-a Acquired: 7/26/2017 16:37:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**85.127**	**.03483**	**.07100**	**.57268**
Stddev	.00054	.207	.00044	.00038	.00433
%RSD	97.166	.24346	1.2757	.52936	.75580
#1	.00017	84.980	.03514	.07073	.57574
#2	.00094	85.273	.03451	.07126	.56962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00292**	**178.50**	**.00506**	**.3364**	**.03885**
Stddev	.00000	.29	.00025	.0148	.00013
%RSD	.02079	.16099	5.0307	4.405	.33782
#1	.00292	178.30	.00488	.3469	.03894
#2	.00292	178.70	.00524	.3259	.03876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09972**	**.14848**	**94.712**	**12.179**	**.08811**
Stddev	.00036	.00053	.106	.004	.00163
%RSD	.36485	.36022	.11179	.03307	1.8550
#1	.09946	.14886	94.638	12.176	.08696
#2	.09997	.14810	94.787	12.182	.08927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-b-13-a Acquired: 7/26/2017 16:37:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**69.807**	**2.4280**	**.00297**	**1.0579**	**.08781**
Stddev	.000	.0008	.00016	.0001	.00061
%RSD	.00045	.03186	5.4148	.00962	.69613
#1	69.807	2.4274	.00308	1.0578	.08825
#2	69.807	2.4285	.00286	1.0580	.08738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9015**	**2.5560**	**.00110**	**.00558**	**3.8456**
Stddev	.0003	.0051	.00039	.00063	.0415
%RSD	.01778	.20055	35.230	11.249	1.0786
#1	1.9012	2.5524	.00082	.00602	3.8750
#2	1.9017	2.5596	.00137	.00514	3.8163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08082**	**.30650**	**1.7580**	**-.00242**	**.15933**
Stddev	.00025	.00003	.0054	.00086	.00037
%RSD	.30625	.01037	.30791	35.512	.23109
#1	.08064	.30648	1.7542	-.00303	.15907
#2	.08099	.30652	1.7619	-.00181	.15959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121458-b-13-a Acquired: 7/26/2017 16:37:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.2217
Stddev	.0023
%RSD	.19027
#1	1.2201
#2	1.2234
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3127.5	2467.9	17404.	3398.8
Stddev	2.3	3.1	9.	7.2
%RSD	.07314	.12695	.05353	.21139
#1	3129.1	2470.1	17398.	3393.7
#2	3125.8	2465.6	17411.	3403.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.874%	102.40%	101.01%	106.71%
Range				

Sample Name: BLANK Acquired: 7/26/2017 16:41:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.02735**	**.00006**	**.00081**	**.00059**
Stddev	.00064	.01417	.00231	.00012	.00002
%RSD	1220.2	51.794	4176.1	14.710	3.7934
#1	-.00051	.03737	-.00158	.00073	.00061
#2	.00040	.01734	.00169	.00089	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.03293**	**-.00015**	**-.0091**	**.00001**
Stddev	.00000	.00094	.00007	.0050	.00004
%RSD	55.543	2.8648	49.637	55.16	446.24
#1	.00001	.03226	-.00010	-.0055	-.00002
#2	.00000	.03360	-.00020	-.0126	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**-.00013**	**.01444**	**-.02990**	**-.00121**
Stddev	.00084	.00072	.00025	.02019	.00163
%RSD	140.22	542.37	1.7020	67.533	134.50
#1	.00119	-.00064	.01427	-.01562	-.00006
#2	.00001	.00038	.01461	-.04418	-.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 16:41:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01250**	**.00072**	**-.00015**	**.02001**	**.00006**
Stddev	.00301	.00000	.00002	.00763	.00026
%RSD	24.087	.51285	10.740	38.129	412.72
#1	.01463	.00072	-.00016	.01462	-.00012
#2	.01037	.00072	-.00014	.02541	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00150**	**.00031**	**.00063**	**.01253**
Stddev	.00036	.00086	.00020	.00020	.01282
%RSD	146.18	57.337	63.869	31.248	102.29
#1	-.00001	.00211	.00045	.00049	.02159
#2	.00050	.00089	.00017	.00077	.00347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00042**	**.00043**	**.00067**	**.00020**
Stddev	.00031	.00004	.00028	.00038	.00010
%RSD	640.12	8.7561	64.160	56.160	50.492
#1	-.00017	.00044	.00024	.00040	.00027
#2	.00027	.00039	.00063	.00094	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 16:41:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00032
Stddev	.00023
%RSD	71.135
#1	.00016
#2	.00048
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3713.7	2388.0	16944.	3104.4
Stddev	1.4	4.2	27.	.9
%RSD	.03674	.17685	.15751	.02992
#1	3712.8	2385.0	16962.	3105.0
#2	3714.7	2391.0	16925.	3103.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.596%	99.082%	98.334%	97.470%
Range				

Sample Name: mb 480-368588/1-a Acquired: 7/26/2017 16:44:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	F **.43063**	**-.00019**	**.00276**	F **.00218**
Stddev	.00042	.02159	.00043	.00022	.00003
%RSD	292.34	5.0126	232.42	7.9492	1.1789
#1	-.00044	.41537	-.00049	.00291	.00217
#2	.00015	.44590	.00012	.00260	.00220
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit		.20000			.00200
Low Limit		-.04000			-.00300

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.19887**	**.00011**	**-.0307**	**-.00013**
Stddev	.00002	.00191	.00012	.0201	.00016
%RSD	16.259	.95872	110.05	65.52	117.53
#1	-.00009	.19752	.00020	-.0450	-.00002
#2	-.00012	.20022	.00002	-.0165	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00442**	F **.15905**	F **.09214**	**.08783**	**-.00224**
Stddev	.00023	.00023	.00050	.00034	.00018
%RSD	5.1245	.14524	.54080	.39269	8.1825
#1	.00426	.15921	.09179	.08807	-.00211
#2	.00458	.15889	.09250	.08758	-.00237
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	.00400	.01000	.05000		
Low Limit	-.00300	-.00400	-.04000		

Sample Name: mb 480-368588/1-a Acquired: 7/26/2017 16:44:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03937**	**.00190**	**.00037**	**.07754**	**.00086**
Stddev	.00369	.00001	.00020	.00743	.00037
%RSD	9.3671	.69132	54.873	9.5873	43.197
#1	.04198	.00189	.00051	.07229	.00112
#2	.03676	.00191	.00023	.08280	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00322**	**.02813**	**.00183**	**.00089**	**.32078**
Stddev	.00044	.00087	.00215	.00423	.02902
%RSD	13.497	3.0852	117.32	474.47	9.0472
#1	.00292	.02874	.00031	.00388	.30026
#2	.00353	.02751	.00336	-.00210	.34130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.09036**	**.00041**	**.00103**	**.00014**	**.00053**
Stddev	.00057	.00000	.00012	.00116	.00015
%RSD	.63053	.47693	11.654	845.96	27.518
#1	.09076	.00041	.00094	-.00068	.00063
#2	.08996	.00042	.00111	.00095	.00043
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368588/1-a Acquired: 7/26/2017 16:44:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00351
Stddev	.00005
%RSD	1.3315
#1	.00354
#2	.00348
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3764.4	2403.7	17239.	3166.8
Stddev	2.0	.8	7.	5.8
%RSD	.05320	.03405	.04081	.18325
#1	3763.0	2403.2	17243.	3170.9
#2	3765.8	2404.3	17234.	3162.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.96%	99.735%	100.05%	99.430%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:47:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49027**	**25.169**	**.48866**	**.51139**	**.50893**
Stddev	.00226	.120	.00108	.00067	.00123
%RSD	.46099	.47819	.22077	.13070	.24147
#1	.49187	25.084	.48942	.51092	.50806
#2	.48867	25.254	.48790	.51187	.50980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51546**	**24.901**	**.50849**	**-.0392**	**.49670**
Stddev	.00256	.120	.00040	.0051	.00101
%RSD	.49731	.48081	.07835	12.94	.20322
#1	.51365	24.817	.50821	-.0428	.49599
#2	.51727	24.986	.50877	-.0356	.49742
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50120**	**.53141**	**24.402**	**26.095**	**.51274**
Stddev	.00298	.00170	.096	.215	.00040
%RSD	.59532	.31948	.39179	.82416	.07749
#1	.50331	.53021	24.335	25.943	.51302
#2	.49909	.53261	24.470	26.248	.51246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:47:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.396**	**.52555**	**.49907**	**25.627**	**.50603**
Stddev	.010	.00084	.00097	.129	.00119
%RSD	.03841	.16072	.19370	.50242	.23554
#1	25.389	.52615	.49838	25.536	.50519
#2	25.402	.52495	.49975	25.718	.50687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49633**	**25.016**	**.50805**	**.49643**	**24.211**
Stddev	.00099	.001	.00388	.00089	.125
%RSD	.19885	.00583	.76327	.17986	.51563
#1	.49563	25.017	.50531	.49706	24.123
#2	.49703	25.014	.51080	.49580	24.300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50814**	**.49770**	**.49863**	**.49469**	**.49926**
Stddev	.00076	.00246	.00206	.00022	.00327
%RSD	.14984	.49392	.41258	.04459	.65520
#1	.50868	.49596	.49718	.49485	.50157
#2	.50761	.49944	.50009	.49454	.49695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 16:47:58 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50145**
Stddev	.00328
%RSD	.65447
#1	.50378
#2	.49913
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3379.0**	**2353.9**	**16562.**	**3101.5**
Stddev	15.6	8.1	4.	11.3
%RSD	.46116	.34446	.02326	.36483
#1	3390.1	2359.6	16565.	3109.5
#2	3368.0	2348.1	16560.	3093.5

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:51:11 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00841**	**-.00028**	**.00086**	**.00015**
Stddev	.00022	.01780	.00128	.00014	.00004
%RSD	74.221	211.78	465.89	16.379	23.815
#1	.00046	.02099	.00063	.00076	.00012
#2	.00014	-.00418	-.00118	.00096	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00746**	**.00002**	**-.0291**	**-.00008**
Stddev	.00015	.00205	.00012	.0539	.00013
%RSD	292.12	27.421	589.54	185.1	154.52
#1	.00006	.00601	.00011	-.0673	-.00017
#2	-.00016	.00890	-.00006	.0090	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**-.00003**	**.00444**	**.04894**	**-.00090**
Stddev	.00007	.00017	.00072	.04227	.00001
%RSD	38.714	666.82	16.313	86.377	1.0706
#1	.00022	.00010	.00393	.01905	-.00091
#2	.00012	-.00015	.00495	.07883	-.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:51:11 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00703**	**.00022**	**.00010**	**.02023**	**-.00009**
Stddev	.00461	.00002	.00001	.00457	.00023
%RSD	65.506	6.8814	14.216	22.583	243.14
#1	.00378	.00023	.00011	.01700	-.00025
#2	.01029	.00021	.00009	.02346	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.00110**	**.00171**	**.00250**	**.00429**
Stddev	.00015	.00125	.00242	.00240	.00213
%RSD	61.965	112.87	141.97	96.252	49.722
#1	-.00014	-.00199	.00342	.00080	.00278
#2	-.00035	-.00022	-.00001	.00420	.00580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00011**	**.00021**	**.00103**	**.00019**
Stddev	.00003	.00003	.00011	.00067	.00001
%RSD	44.919	31.771	50.241	65.061	2.7559
#1	-.00004	.00008	.00029	.00055	.00019
#2	-.00008	.00013	.00014	.00150	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 16:51:11 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00053
Stddev	.00094
%RSD	179.16
#1	-.00014
#2	.00119
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3693.6	2377.8	16916.	3093.6
Stddev	6.7	3.4	38.	19.2
%RSD	.18077	.14193	.22184	.61985
#1	3698.4	2380.2	16890.	3080.0
#2	3688.9	2375.4	16943.	3107.1

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:54:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00596**	**.20794**	**.01617**	**.02102**	**.00227**
Stddev	.00059	.01946	.00026	.00051	.00001
%RSD	9.9543	9.3593	1.6237	2.4402	.29929
#1	.00554	.19417	.01635	.02066	.00228
#2	.00638	.22170	.01598	.02139	.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.51519**	**.00207**	**-.0495**	**.00382**
Stddev	.00014	.00240	.00004	.0067	.00001
%RSD	6.5795	.46607	1.9554	13.45	.28493
#1	.00223	.51350	.00204	-.0448	.00381
#2	.00203	.51689	.00210	-.0542	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.01070**	**.05406**	**.55469**	**.03025**
Stddev	.00037	.00017	.00060	.00243	.00158
%RSD	8.2504	1.6147	1.1017	.43838	5.2216
#1	.00422	.01082	.05364	.55641	.03136
#2	.00475	.01058	.05449	.55297	.02913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:54:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21468**	**.00342**	**.01006**	**1.0485**	**.00985**
Stddev	.00287	.00003	.00016	.0016	.00028
%RSD	1.3385	.99628	1.5775	.15587	2.8505
#1	.21671	.00344	.01018	1.0473	.00965
#2	.21264	.00339	.00995	1.0497	.01005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01002**	**.19728**	**.02079**	**.02626**	**.50440**
Stddev	.00024	.00157	.00049	.00053	.01198
%RSD	2.4029	.79358	2.3417	2.0082	2.3745
#1	.01019	.19839	.02044	.02663	.49593
#2	.00985	.19617	.02113	.02589	.51287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00947**	**.00506**	**.00498**	**.02101**	**.00499**
Stddev	.00024	.00002	.00000	.00019	.00008
%RSD	2.5799	.39524	.01215	.92479	1.5169
#1	.00930	.00507	.00498	.02087	.00505
#2	.00965	.00504	.00498	.02115	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 16:54:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01158
Stddev	.00053
%RSD	4.5465
#1	.01120
#2	.01195
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3720.8	2404.2	17126.	3128.9
Stddev	6.4	5.3	26.	13.8
%RSD	.17119	.21918	.15071	.44105
#1	3716.3	2400.5	17145.	3119.1
#2	3725.3	2407.9	17108.	3138.6

Sample Name: lcssrm 480-368588/2- Acquired: 7/26/2017 16:58:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48849**	**92.066**	**1.8129**	**.65591**	**3.6370**
Stddev	.00063	.148	.0111	.00028	.0248
%RSD	.12827	.16086	.61227	.04271	.68108
#1	.48805	92.170	1.8050	.65571	3.6545
#2	.48894	91.961	1.8207	.65611	3.6195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95686**	**52.218**	**1.0495**	**1.633**	**1.9813**
Stddev	.00368	.266	.0009	.029	.0011
%RSD	.38476	.50898	.08818	1.763	.05774
#1	.95946	52.406	1.0502	1.653	1.9805
#2	.95426	52.030	1.0489	1.612	1.9821
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.64783**	**.74525**	**135.91**	**28.880**	**.07225**
Stddev	.00179	.00401	1.07	.228	.00192
%RSD	.27684	.53805	.78841	.78816	2.6527
#1	.64656	.74241	136.67	29.041	.07360
#2	.64910	.74808	135.15	28.719	.07089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: lcssrm 480-368588/2- Acquired: 7/26/2017 16:58:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.972**	**3.8800**	**.53621**	**5.8650**	**1.8243**
Stddev	.072	.0156	.00041	.0206	.0021
%RSD	.25810	.40260	.07694	.35062	.11376
#1	27.921	3.8689	.53592	5.8796	1.8228
#2	28.023	3.8910	.53651	5.8505	1.8258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75993**	**1.2866**	**.64666**	**.89546**	**4.2661**
Stddev	.00253	.0035	.00333	.00130	.0269
%RSD	.33300	.26920	.51478	.14478	.63063
#1	.76172	1.2890	.64901	.89455	4.2471
#2	.75814	1.2841	.64430	.89638	4.2851
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95605**	**1.3332**	**4.2133**	**1.4714**	**1.3372**
Stddev	.00169	.0010	.0132	.0045	.0035
%RSD	.17631	.07128	.31352	.30768	.26267
#1	.95486	1.3339	4.2039	1.4682	1.3347
#2	.95725	1.3326	4.2226	1.4746	1.3397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcssrm 480-368588/2- Acquired: 7/26/2017 16:58:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.7745**
Stddev	.0086
%RSD	.30908
#1	2.7684
#2	2.7806
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3210.0**	**2734.3**	**19308.**	**3740.3**
Stddev	1.7	1.1	100.	22.8
%RSD	.05443	.03949	.51689	.61087
#1	3211.2	2735.0	19378.	3724.1
#2	3208.8	2733.5	19237.	3756.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.087%	113.45%	112.06%	117.44%
Range				

Sample Name: 480-121578-c-1-b Acquired: 7/26/2017 17:01:24 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**62.742**	**.01098**	**.14222**	**.33383**
Stddev	.00001	.381	.00369	.00054	.00046
%RSD	2.5971	.60678	33.581	.37816	.13685
#1	-.00052	63.011	.01359	.14260	.33416
#2	-.00054	62.473	.00837	.14184	.33351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00248**	**208.04**	**.00176**	**.1830**	**.02684**
Stddev	.00000	1.08	.00007	.0113	.00008
%RSD	.16699	.51779	4.2334	6.156	.28401
#1	.00248	208.80	.00171	.1910	.02689
#2	.00248	207.28	.00182	.1751	.02678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07909**	**.06561**	**77.938**	**19.241**	**.11638**
Stddev	.00021	.00032	.374	.036	.00114
%RSD	.27071	.48568	.48020	.18822	.98166
#1	.07924	.06583	78.203	19.215	.11719
#2	.07894	.06538	77.673	19.266	.11558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-1-b Acquired: 7/26/2017 17:01:24 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.902**	**1.3947**	**.00125**	**2.3566**	**.06185**
Stddev	.151	.0039	.00000	.0030	.00053
%RSD	.34437	.28268	.20204	.12792	.85815
#1	44.009	1.3975	.00125	2.3587	.06222
#2	43.795	1.3919	.00125	2.3545	.06147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08376**	**6.7201**	**.00136**	**.00246**	**4.6116**
Stddev	.00074	.0073	.00135	.00317	.0198
%RSD	.88328	.10817	99.047	128.70	.42910
#1	.08324	6.7150	.00041	.00471	4.5976
#2	.08429	6.7253	.00232	.00022	4.6256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05303**	**1.3429**	**.84044**	**-.00251**	**.10279**
Stddev	.00114	.0057	.00115	.00011	.00063
%RSD	2.1473	.42165	.13629	4.2439	.60850
#1	.05223	1.3469	.83963	-.00258	.10323
#2	.05384	1.3389	.84125	-.00243	.10234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-1-b Acquired: 7/26/2017 17:01:24 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.38839
Stddev	.00175
%RSD	.44989
#1	.38963
#2	.38716
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3152.4	2395.6	16792.	3302.6
Stddev	5.5	5.1	67.	11.9
%RSD	.17558	.21473	.40064	.35966
#1	3148.5	2392.0	16744.	3294.2
#2	3156.3	2399.3	16839.	3311.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.542%	99.400%	97.454%	103.70%
Range				

Sample Name: 480-121578-c-2-b Acquired: 7/26/2017 17:04:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00147**	**94.338**	**.01182**	**.20065**	**.52562**
Stddev	.00024	.448	.00061	.00044	.00089
%RSD	16.076	.47471	5.1403	.21891	.17001
#1	-.00164	94.022	.01225	.20034	.52499
#2	-.00130	94.655	.01139	.20096	.52625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00340**	**55.201**	**.00202**	**.2030**	**.03071**
Stddev	.00004	.274	.00011	.0178	.00007
%RSD	1.2773	.49689	5.6423	8.769	.23572
#1	.00337	55.007	.00210	.2156	.03076
#2	.00343	55.395	.00194	.1904	.03066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11171**	**.07268**	**97.501**	**32.138**	**.17625**
Stddev	.00093	.00009	.461	.123	.00089
%RSD	.82995	.12953	.47296	.38140	.50259
#1	.11106	.07262	97.175	32.051	.17563
#2	.11237	.07275	97.827	32.225	.17688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-2-b Acquired: 7/26/2017 17:04:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.152**	**1.5546**	**.00201**	**.91018**	**.08576**
Stddev	.080	.0007	.00018	.00195	.00025
%RSD	.20846	.04269	8.9756	.21375	.28735
#1	38.096	1.5551	.00213	.90881	.08593
#2	38.208	1.5542	.00188	.91156	.08558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08898**	**7.1467**	**.00165**	**.00385**	**6.7878**
Stddev	.00076	.0059	.00248	.00286	.0023
%RSD	.85357	.08301	150.66	74.359	.03379
#1	.08952	7.1509	.00340	.00183	6.7862
#2	.08844	7.1425	-.00011	.00587	6.7894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05679**	**.29701**	**1.0999**	**-.00183**	**.14180**
Stddev	.00010	.00100	.0005	.00003	.00007
%RSD	.18126	.33631	.04389	1.5258	.04910
#1	.05686	.29630	1.0996	-.00185	.14175
#2	.05671	.29771	1.1003	-.00181	.14185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-2-b Acquired: 7/26/2017 17:04:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0264
Stddev	.0027
%RSD	.25834
#1	1.0283
#2	1.0245
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3274.2	2467.6	17225.	3326.1
Stddev	5.9	4.6	16.	38.8
%RSD	.17933	.18501	.09390	1.1668
#1	3278.3	2470.8	17214.	3353.6
#2	3270.0	2464.3	17237.	3298.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.809%	102.38%	99.969%	104.43%
Range				

Sample Name: 480-121578-a-3-b Acquired: 7/26/2017 17:08:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00168**	**60.336**	**.00854**	**.13133**	**.30409**
Stddev	.00078	.291	.00114	.00036	.00022
%RSD	46.606	.48302	13.318	.27495	.07171
#1	-.00223	60.542	.00773	.13158	.30394
#2	-.00113	60.129	.00934	.13107	.30425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00252**	**390.23**	**.00123**	**.2515**	**.03031**
Stddev	.00004	1.97	.00004	.0126	.00000
%RSD	1.6994	.50445	3.6387	5.025	.00232
#1	.00255	391.62	.00126	.2426	.03031
#2	.00249	388.84	.00120	.2604	.03031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07508**	**.04936**	**71.390**	**18.960**	**.09883**
Stddev	.00006	.00026	.270	.042	.00058
%RSD	.07397	.52894	.37842	.21929	.59093
#1	.07504	.04955	71.581	18.931	.09925
#2	.07512	.04918	71.199	18.990	.09842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-b Acquired: 7/26/2017 17:08:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**158.63**	**1.4281**	**.00070**	**1.6182**	**.06851**
Stddev	.12	.0012	.00010	.0013	.00011
%RSD	.07708	.08673	14.324	.07856	.15857
#1	158.72	1.4272	.00077	1.6191	.06859
#2	158.54	1.4289	.00063	1.6173	.06843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07578**	**4.4038**	**.00129**	**-.00182**	**5.3023**
Stddev	.00084	.0027	.00310	.00138	.0759
%RSD	1.1098	.06007	240.80	75.953	1.4315
#1	.07518	4.4057	-.00090	-.00279	5.3560
#2	.07637	4.4019	.00348	-.00084	5.2487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05890**	**.60288**	**1.3556**	**.00004**	**.11042**
Stddev	.00058	.00325	.0063	.00064	.00124
%RSD	.97823	.53828	.46119	1790.1	1.1228
#1	.05930	.60517	1.3512	-.00041	.10954
#2	.05849	.60058	1.3600	.00049	.11129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-b Acquired: 7/26/2017 17:08:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.32155
Stddev	.00030
%RSD	.09459
#1	.32177
#2	.32134
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2942.7	2358.3	16751.	3335.2
Stddev	5.8	2.8	.	12.1
%RSD	.19841	.11746	.00147	.36331
#1	2946.9	2360.2	16751.	3326.7
#2	2938.6	2356.3	16751.	3343.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.920%	97.849%	97.215%	104.72%
Range				

Sample Name: 480-121578-a-3-bSD@5 Acquired: 7/26/2017 17:11:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**12.755**	**.00084**	**.03017**	**.06423**
Stddev	.00008	.061	.00094	.00061	.00020
%RSD	97.682	.47727	111.60	2.0188	.31075
#1	.00015	12.798	.00151	.03061	.06409
#2	.00003	12.712	.00018	.02974	.06437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**85.228**	**.00038**	**.0446**	**.00601**
Stddev	.00003	.504	.00007	.0349	.00010
%RSD	4.9832	.59125	18.979	78.28	1.6385
#1	.00059	85.584	.00043	.0199	.00608
#2	.00064	84.872	.00033	.0693	.00594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01658**	**.00912**	**15.612**	**3.9162**	**.02042**
Stddev	.00029	.00061	.140	.0483	.00010
%RSD	1.7577	6.6782	.89794	1.2338	.48356
#1	.01679	.00869	15.712	3.9504	.02035
#2	.01637	.00955	15.513	3.8820	.02049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-bSD@5 Acquired: 7/26/2017 17:11:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.438**	**.31264**	**-.00013**	**.34545**	**.01331**
Stddev	.187	.00013	.00003	.00199	.00045
%RSD	.55904	.04253	23.563	.57583	3.3480
#1	33.306	.31255	-.00011	.34405	.01299
#2	33.570	.31273	-.00015	.34686	.01362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01563**	**.91339**	**-.00068**	**.00137**	**1.1154**
Stddev	.00028	.00151	.00218	.00143	.0091
%RSD	1.8213	.16482	321.85	103.99	.81951
#1	.01583	.91445	.00087	.00238	1.1218
#2	.01543	.91232	-.00222	.00036	1.1089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01150**	**.12907**	**.29341**	**.00017**	**.02377**
Stddev	.00053	.00029	.00037	.00049	.00056
%RSD	4.5758	.22788	.12763	287.64	2.3468
#1	.01187	.12928	.29315	.00051	.02337
#2	.01112	.12886	.29368	-.00018	.02416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-bSD@5 Acquired: 7/26/2017 17:11:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07339
Stddev	.00104
%RSD	1.4140
#1	.07412
#2	.07265
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3367.0	2364.5	16708.	3180.7
Stddev	.8	.2	40.	24.2
%RSD	.02285	.01038	.23668	.75929
#1	3367.6	2364.7	16680.	3163.7
#2	3366.5	2364.3	16736.	3197.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.298%	98.108%	96.967%	99.868%
Range				

Sample Name: 480-121578-a-3-b PDS Acquired: 7/26/2017 17:14:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09263**	**77.688**	**.37866**	**.49350**	**.67457**
Stddev	.00080	.020	.00214	.00106	.00332
%RSD	.85855	.02528	.56444	.21490	.49218
#1	.09207	77.674	.38017	.49425	.67223
#2	.09319	77.702	.37715	.49275	.67692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38110**	**394.77**	**.39099**	**.2279**	**.42542**
Stddev	.00023	4.09	.00109	.0121	.00070
%RSD	.05935	1.0373	.27764	5.311	.16379
#1	.38094	391.87	.39176	.2365	.42591
#2	.38126	397.66	.39022	.2194	.42493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43838**	**.45397**	**87.310**	**38.088**	**.49332**
Stddev	.00083	.00343	.453	.065	.00352
%RSD	.18883	.75559	.51841	.17035	.71337
#1	.43780	.45154	86.990	38.042	.49084
#2	.43897	.45639	87.630	38.134	.49581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-b PDS Acquired: 7/26/2017 17:14:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**173.55**	**1.7706**	**.36074**	**20.969**	**.46669**
Stddev	.28	.0055	.00056	.052	.00027
%RSD	.16345	.30791	.15542	.24994	.05723
#1	173.35	1.7667	.36113	20.932	.46688
#2	173.75	1.7744	.36034	21.006	.46650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47894**	**4.2975**	**.38780**	**.37428**	**5.6824**
Stddev	.00040	.0120	.00033	.00684	.1407
%RSD	.08361	.28010	.08541	1.8267	2.4766
#1	.47866	4.3060	.38804	.37912	5.5829
#2	.47922	4.2890	.38757	.36945	5.7819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05797**	**.96533**	**1.6910**	**.38398**	**.48832**
Stddev	.00079	.00182	.0067	.00183	.00052
%RSD	1.3559	.18835	.39650	.47596	.10623
#1	.05853	.96405	1.6862	.38527	.48869
#2	.05742	.96662	1.6957	.38269	.48795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-3-b PDS Acquired: 7/26/2017 17:14:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.67426**
Stddev	.00172
%RSD	.25435
#1	.67305
#2	.67547
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2893.5**	**2345.5**	**16524.**	**3329.3**
Stddev	1.4	7.1	43.	11.2
%RSD	.04889	.30390	.26237	.33546
#1	2892.5	2340.4	16555.	3337.2
#2	2894.5	2350.5	16494.	3321.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.599%	97.318%	95.900%	104.53%
Range				

Sample Name: 480-121578-c-3-c ms Acquired: 7/26/2017 17:18:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08907	122.96	.37618	.64910	.79551
Stddev	.00239	.17	.00004	.00188	.00076
%RSD	2.6817	.13617	.01088	.28937	.09520
#1	.08738	123.08	.37621	.64777	.79497
#2	.09076	122.85	.37615	.65043	.79604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.36761	680.36	.38616	.2928	.43076
Stddev	.00029	.91	.00111	.0458	.00099
%RSD	.07806	.13357	.28623	15.63	.23015
#1	.36781	679.72	.38538	.3251	.43006
#2	.36740	681.00	.38694	.2604	.43146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47266	.44138	108.89	66.542	.65186
Stddev	.00201	.00015	.16	.131	.00195
%RSD	.42528	.03360	.14447	.19633	.29926
#1	.47124	.44148	108.78	66.450	.65324
#2	.47409	.44127	109.00	66.634	.65048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-3-c ms Acquired: 7/26/2017 17:18:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**324.60**	**2.4737**	**.34801**	**21.322**	**.48089**
Stddev	.17	.0017	.00149	.029	.00024
%RSD	.05244	.06967	.42681	.13720	.04982
#1	324.48	2.4725	.34696	21.302	.48105
#2	324.72	2.4749	.34906	21.343	.48072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51124**	**23.376**	**.32870**	**.36656**	**5.5672**
Stddev	.00100	.071	.00134	.00116	.0272
%RSD	.19634	.30187	.40829	.31749	.48849
#1	.51195	23.326	.32775	.36739	5.5480
#2	.51053	23.426	.32965	.36574	5.5864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47831**	**1.0926**	**2.1994**	**.37947**	**.54166**
Stddev	.00096	.0026	.0092	.00204	.00067
%RSD	.19983	.23362	.41846	.53860	.12299
#1	.47898	1.0944	2.1929	.37803	.54119
#2	.47763	1.0907	2.2059	.38092	.54213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-3-c ms Acquired: 7/26/2017 17:18:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.76922
Stddev	.00035
%RSD	.04614
#1	.76947
#2	.76897
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2673.7	2294.7	16234.	3369.0
Stddev	1.6	6.2	49.	20.9
%RSD	.06094	.27056	.30273	.62159
#1	2674.8	2299.1	16269.	3383.8
#2	2672.5	2290.3	16200.	3354.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.704%	95.209%	94.218%	105.78%
Range				

Sample Name: 480-121578-c-3-d msd Acquired: 7/26/2017 17:21:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09044	94.558	.37785	.59361	.69511
Stddev	.00115	.417	.00294	.00006	.00215
%RSD	1.2762	.44141	.77806	.00937	.30886
#1	.08962	94.853	.37993	.59365	.69360
#2	.09125	94.263	.37578	.59357	.69663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.37826	483.84	.39201	.2214	.40899
Stddev	.00253	1.45	.00049	.0154	.00092
%RSD	.66845	.29881	.12558	6.973	.22387
#1	.38005	484.86	.39236	.2105	.40964
#2	.37647	482.82	.39166	.2323	.40834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.43744	.43082	74.717	53.588	.49864
Stddev	.00209	.00214	.445	.429	.00369
%RSD	.47786	.49609	.59597	.80049	.74081
#1	.43596	.42931	75.031	53.892	.50126
#2	.43892	.43233	74.402	53.285	.49603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-3-d msd Acquired: 7/26/2017 17:21:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**219.39**	**1.7833**	**.35887**	**21.271**	**.43957**
Stddev	.39	.0024	.00169	.132	.00084
%RSD	.17871	.13696	.46998	.62154	.19069
#1	219.11	1.7815	.36007	21.365	.44017
#2	219.67	1.7850	.35768	21.178	.43898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45761**	**21.942**	**.33739**	**.37128**	**6.4259**
Stddev	.00135	.042	.00144	.00218	.0168
%RSD	.29445	.18988	.42812	.58610	.26083
#1	.45856	21.971	.33637	.37282	6.4377
#2	.45665	21.913	.33841	.36974	6.4140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46784**	**.88365**	**1.4529**	**.37661**	**.49718**
Stddev	.00074	.00566	.0040	.00048	.00210
%RSD	.15750	.63996	.27650	.12691	.42322
#1	.46732	.88765	1.4500	.37694	.49569
#2	.46837	.87966	1.4557	.37627	.49867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-3-d msd Acquired: 7/26/2017 17:21:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.60057**
Stddev	.00488
%RSD	.81283
#1	.59712
#2	.60402
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2838.9**	**2290.8**	**16220.**	**3264.8**
Stddev	4.6	2.3	84.	9.9
%RSD	.16113	.09886	.51881	.30425
#1	2835.7	2289.2	16279.	3257.8
#2	2842.2	2292.4	16160.	3271.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.136%	95.051%	94.134%	102.51%
Range				

Sample Name: 480-121578-c-4-b Acquired: 7/26/2017 17:25:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00193**	**75.918**	**.02163**	**.12986**	**.41906**
Stddev	.00018	.139	.00145	.00063	.00071
%RSD	9.1834	.18368	6.7219	.48170	.16925
#1	-.00205	75.820	.02265	.12941	.41956
#2	-.00180	76.017	.02060	.13030	.41855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00321**	**450.02**	**.00148**	**.2611**	**.03628**
Stddev	.00006	.01	.00012	.0208	.00007
%RSD	1.9790	.00241	8.3647	7.966	.18774
#1	.00317	450.01	.00157	.2758	.03633
#2	.00326	450.03	.00140	.2464	.03623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09507**	**.08225**	**90.667**	**19.172**	**.09140**
Stddev	.00017	.00055	.017	.014	.00032
%RSD	.18177	.67220	.01925	.07243	.35098
#1	.09495	.08264	90.655	19.182	.09162
#2	.09519	.08186	90.680	19.162	.09117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-4-b Acquired: 7/26/2017 17:25:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**89.963**	**2.4510**	**.00222**	**1.9794**	**.08432**
Stddev	.161	.0049	.00008	.0050	.00060
%RSD	.17877	.20099	3.7661	.25000	.71636
#1	90.077	2.4545	.00216	1.9829	.08475
#2	89.849	2.4476	.00227	1.9759	.08390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19286**	**4.6085**	**.00124**	**.00484**	**4.5846**
Stddev	.00100	.0027	.00028	.00240	.0784
%RSD	.51954	.05822	22.394	49.500	1.7108
#1	.19215	4.6066	.00143	.00315	4.6401
#2	.19357	4.6104	.00104	.00653	4.5292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05494**	**.56056**	**1.4908**	**-.00173**	**.14479**
Stddev	.00080	.00077	.0040	.00292	.00006
%RSD	1.4506	.13727	.26740	169.18	.03964
#1	.05437	.56111	1.4936	-.00379	.14483
#2	.05550	.56002	1.4880	.00034	.14475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-4-b Acquired: 7/26/2017 17:25:10 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.49472**
Stddev	.00002
%RSD	.00377
#1	.49473
#2	.49470
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2929.3**	**2422.0**	**16965.**	**3431.4**
Stddev	2.7	2.9	92.	5.5
%RSD	.09099	.12179	.54127	.16066
#1	2927.4	2424.1	16900.	3435.3
#2	2931.2	2419.9	17030.	3427.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.559%	100.49%	98.460%	107.74%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 17:28:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49399**	**25.092**	**.49289**	**.51278**	**.51020**
Stddev	.00108	.118	.00212	.00091	.00042
%RSD	.21839	.46971	.43082	.17799	.08158
#1	.49476	25.008	.49439	.51213	.51049
#2	.49323	25.175	.49139	.51342	.50990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51324**	**24.854**	**.50844**	**-.0292**	**.49631**
Stddev	.00089	.048	.00077	.0206	.00056
%RSD	.17398	.19368	.15242	70.44	.11355
#1	.51261	24.820	.50899	-.0437	.49671
#2	.51387	24.888	.50790	-.0147	.49591
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50714**	**.53045**	**24.380**	**26.208**	**.51426**
Stddev	.00064	.00310	.056	.097	.00018
%RSD	.12687	.58378	.23018	.37089	.03552
#1	.50759	.52826	24.341	26.139	.51439
#2	.50668	.53264	24.420	26.276	.51413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 17:28:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.447**	**.52626**	**.50056**	**25.579**	**.50496**
Stddev	.032	.00058	.00089	.046	.00009
%RSD	.12703	.10987	.17698	.18101	.01690
#1	25.424	.52586	.50119	25.547	.50502
#2	25.470	.52667	.49994	25.612	.50490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49604**	**25.151**	**.50642**	**.50167**	**24.097**
Stddev	.00144	.034	.00074	.00377	.034
%RSD	.29121	.13529	.14637	.75063	.14115
#1	.49707	25.175	.50694	.50433	24.073
#2	.49502	25.127	.50590	.49901	24.121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50640**	**.49660**	**.50047**	**.49669**	**.50430**
Stddev	.00008	.00022	.00014	.00297	.00050
%RSD	.01602	.04390	.02869	.59809	.09851
#1	.50634	.49676	.50036	.49879	.50395
#2	.50645	.49645	.50057	.49459	.50465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 17:28:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50609
Stddev	.00115
%RSD	.22650
#1	.50528
#2	.50690
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3382.8	2357.0	16453.	3114.1
Stddev	4.0	2.3	42.	20.9
%RSD	.11793	.09796	.25452	.66968
#1	3385.6	2358.6	16483.	3128.8
#2	3380.0	2355.4	16424.	3099.3

Sample Name: CCB-4130963 Acquired: 7/26/2017 17:31:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**-.00194**	**.00024**	**.00172**	**.00007**
Stddev	.00082	.04084	.00035	.00043	.00002
%RSD	87.146	2099.7	142.88	24.948	35.398
#1	-.00036	-.03082	.00049	.00202	.00005
#2	-.00153	.02693	-.00000	.00141	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.02196**	**-.00001**	**.0093**	**.00014**
Stddev	.00005	.00063	.00013	.0272	.00012
%RSD	1285.4	2.8730	1216.4	292.5	85.591
#1	.00003	.02151	.00008	.0285	.00006
#2	-.00004	.02240	-.00010	-.0099	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00062**	**.00735**	**.04523**	**.00032**
Stddev	.00005	.00051	.00372	.04087	.00050
%RSD	22.497	81.087	50.650	90.356	157.76
#1	.00026	.00027	.00998	.07413	.00068
#2	.00019	.00098	.00471	.01633	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 17:31:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00938**	**.00013**	**.00005**	**.01870**	**.00002**
Stddev	.00033	.00000	.00011	.00685	.00011
%RSD	3.5565	.23008	209.65	36.637	655.72
#1	.00915	.00013	-.00003	.02355	.00010
#2	.00962	.00013	.00014	.01386	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.00330**	**.00000**	**.00534**	**.01195**
Stddev	.00070	.00164	.00084	.00027	.01289
%RSD	84.746	49.662	91924.	4.9743	107.86
#1	-.00131	.00214	.00059	.00553	.02107
#2	-.00033	.00446	-.00059	.00515	.00284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**-.00000**	**-.00018**	**.00141**	**.00036**
Stddev	.00035	.00005	.00017	.00085	.00014
%RSD	65.157	2010.6	92.517	60.157	40.495
#1	-.00029	-.00003	-.00030	.00201	.00046
#2	-.00078	.00003	-.00006	.00081	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 17:31:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00065
Stddev	.00041
%RSD	63.149
#1	.00094
#2	.00036
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3701.9	2387.1	16955.	3124.6
Stddev	2.6	4.4	114.	3.2
%RSD	.06972	.18579	.67528	.10322
#1	3703.7	2390.2	17036.	3122.3
#2	3700.1	2383.9	16874.	3126.9

Sample Name: CCVL-4147888 Acquired: 7/26/2017 17:35:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00555**	**.20276**	**.01481**	**.02128**	**.00221**
Stddev	.00016	.01603	.00221	.00048	.00003
%RSD	2.8956	7.9060	14.905	2.2714	1.1335
#1	.00544	.19143	.01325	.02094	.00223
#2	.00566	.21410	.01637	.02163	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.51317**	**.00215**	**-.0026**	**.00383**
Stddev	.00009	.00305	.00007	.0020	.00004
%RSD	4.1746	.59381	3.1137	78.04	1.0862
#1	.00217	.51101	.00220	-.0012	.00386
#2	.00205	.51532	.00211	-.0040	.00380
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00496**	**.01099**	**.05521**	**.57973**	**.03126**
Stddev	.00037	.00022	.00053	.03089	.00061
%RSD	7.4509	2.0429	.95889	5.3288	1.9412
#1	.00522	.01083	.05484	.60158	.03169
#2	.00470	.01115	.05559	.55789	.03083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 17:35:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21594**	**.00327**	**.00998**	**1.0345**	**.00963**
Stddev	.00011	.00000	.00002	.0092	.00007
%RSD	.05263	.04523	.18124	.89126	.74703
#1	.21586	.00327	.00997	1.0280	.00958
#2	.21602	.00327	.01000	1.0410	.00968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00864**	**.19695**	**.02064**	**.02506**	**.49991**
Stddev	.00044	.00137	.00112	.00004	.00346
%RSD	5.1401	.69384	5.4437	.14780	.69142
#1	.00896	.19792	.02144	.02509	.50235
#2	.00833	.19599	.01985	.02504	.49747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00918**	**.00497**	**.00505**	**.02169**	**.00534**
Stddev	.00017	.00008	.00030	.00117	.00010
%RSD	1.9014	1.7104	6.0326	5.3720	1.9580
#1	.00930	.00503	.00483	.02251	.00541
#2	.00905	.00491	.00527	.02087	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 17:35:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01081
Stddev	.00011
%RSD	1.0040
#1	.01074
#2	.01089
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3725.8	2411.5	17092.	3132.5
Stddev	12.4	7.4	42.	13.9
%RSD	.33370	.30569	.24802	.44423
#1	3734.6	2416.7	17122.	3142.3
#2	3717.0	2406.2	17062.	3122.6

Sample Name: 480-121578-c-5-b Acquired: 7/26/2017 17:38:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**46.850**	**.02034**	**.14376**	**.29445**
Stddev	.00085	.012	.00036	.00029	.00069
%RSD	4782.0	.02506	1.7501	.20376	.23496
#1	-.00058	46.859	.02059	.14396	.29494
#2	.00062	46.842	.02009	.14355	.29396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**760.02**	**.00148**	**.2287**	**.02459**
Stddev	.00001	1.69	.00014	.0219	.00008
%RSD	.36454	.22206	9.6812	9.577	.30726
#1	.00207	758.83	.00158	.2442	.02453
#2	.00206	761.22	.00138	.2132	.02464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06611**	**.12230**	**64.917**	**17.847**	**.05392**
Stddev	.00044	.00123	.197	.043	.00032
%RSD	.67012	1.0095	.30391	.24292	.59360
#1	.06643	.12317	65.056	17.816	.05369
#2	.06580	.12142	64.777	17.878	.05414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-5-b Acquired: 7/26/2017 17:38:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**240.52**	**2.0791**	**.00245**	**1.3986**	**.06777**
Stddev	.47	.0041	.00012	.0013	.00031
%RSD	.19458	.19719	4.7908	.09404	.46330
#1	240.86	2.0820	.00253	1.3996	.06799
#2	240.19	2.0762	.00236	1.3977	.06755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11352**	**7.6838**	**.00124**	**.00075**	**3.5340**
Stddev	.00240	.0162	.00158	.00251	.0273
%RSD	2.1109	.21035	127.00	334.80	.77340
#1	.11521	7.6952	.00013	-.00103	3.5534
#2	.11182	7.6724	.00236	.00253	3.5147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05338**	**.67670**	**.71634**	**-.00152**	**.10065**
Stddev	.00016	.00076	.00131	.00123	.00147
%RSD	.30078	.11280	.18243	80.761	1.4626
#1	.05349	.67724	.71541	-.00239	.10169
#2	.05326	.67616	.71726	-.00065	.09961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-5-b Acquired: 7/26/2017 17:38:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.48594**
Stddev	.00123
%RSD	.25242
#1	.48681
#2	.48508
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2767.4**	**2299.0**	**16295.**	**3293.2**
Stddev	2.2	8.1	44.	9.4
%RSD	.07788	.35406	.27121	.28636
#1	2765.8	2293.2	16263.	3299.9
#2	2768.9	2304.7	16326.	3286.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.217%	95.389%	94.568%	103.40%
Range				

Sample Name: 480-121578-c-6-b Acquired: 7/26/2017 17:42:12 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**90.509**	**.01327**	**.23083**	**.25181**
Stddev	.00012	.643	.00072	.00009	.00029
%RSD	13.110	.71025	5.4312	.03947	.11318
#1	-.00083	90.054	.01378	.23076	.25161
#2	-.00100	90.963	.01276	.23089	.25201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00360**	**175.28**	**.00080**	**.2532**	**.05086**
Stddev	.00008	1.04	.00009	.0024	.00016
%RSD	2.1385	.59404	10.715	.9373	.32106
#1	.00355	174.55	.00086	.2549	.05097
#2	.00366	176.02	.00074	.2515	.05074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12386**	**.32541**	**107.79**	**39.372**	**.17922**
Stddev	.00009	.00209	.56	.005	.00090
%RSD	.06905	.64341	.52136	.01251	.50193
#1	.12380	.32689	107.39	39.375	.17858
#2	.12392	.32392	108.19	39.369	.17985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-6-b Acquired: 7/26/2017 17:42:12 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**104.68**	**1.0559**	**.00255**	**1.3652**	**.11260**
Stddev	.16	.0017	.00000	.0219	.00016
%RSD	.14928	.16304	.10809	1.6018	.14196
#1	104.79	1.0572	.00255	1.3498	.11249
#2	104.57	1.0547	.00255	1.3807	.11272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06337**	**5.4544**	**.00051**	**.00131**	**4.9584**
Stddev	.00099	.0105	.00233	.00427	.0537
%RSD	1.5668	.19246	454.08	326.35	1.0821
#1	.06267	5.4618	-.00114	-.00171	4.9205
#2	.06408	5.4470	.00216	.00433	4.9964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05900**	**1.1174**	**.95606**	**-.00190**	**.14617**
Stddev	.00041	.0050	.00091	.00018	.00071
%RSD	.69532	.45101	.09514	9.5513	.48345
#1	.05871	1.1138	.95671	-.00177	.14667
#2	.05929	1.1209	.95542	-.00203	.14567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-6-b Acquired: 7/26/2017 17:42:12 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.24318**
Stddev	.00130
%RSD	.53462
#1	.24410
#2	.24226
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3077.5**	**2398.5**	**16845.**	**3343.9**
Stddev	6.1	1.3	47.	17.5
%RSD	.19719	.05601	.27952	.52348
#1	3073.2	2397.6	16812.	3356.3
#2	3081.8	2399.5	16878.	3331.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.534%	99.519%	97.761%	104.99%
Range				

Sample Name: 480-121578-c-7-b Acquired: 7/26/2017 17:45:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**59.046**	**.01038**	**.15916**	**.26060**
Stddev	.00102	.137	.00142	.00049	.00015
%RSD	807.87	.23232	13.685	.30517	.05640
#1	-.00084	58.949	.01139	.15951	.26050
#2	.00059	59.143	.00938	.15882	.26070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00258**	**61.228**	**.00140**	**.1671**	**.01862**
Stddev	.00006	.217	.00006	.0032	.00016
%RSD	2.2374	.35490	4.4726	1.916	.85132
#1	.00262	61.074	.00144	.1649	.01874
#2	.00254	61.382	.00136	.1694	.01851
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07191**	**.07815**	**59.194**	**16.257**	**.10410**
Stddev	.00053	.00144	.189	.092	.00065
%RSD	.73583	1.8380	.31961	.56732	.62906
#1	.07154	.07916	59.060	16.191	.10457
#2	.07229	.07713	59.328	16.322	.10364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-7-b Acquired: 7/26/2017 17:45:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.630**	**.39683**	**.00153**	**.64709**	**.05730**
Stddev	.078	.00024	.00001	.00272	.00022
%RSD	.34376	.06093	.67587	.42107	.38901
#1	22.575	.39666	.00152	.64516	.05746
#2	22.685	.39700	.00154	.64901	.05715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10623**	**7.0791**	**-.00003**	**.00599**	**4.1750**
Stddev	.00134	.0075	.00131	.00494	.0869
%RSD	1.2654	.10599	4379.6	82.545	2.0806
#1	.10528	7.0738	-.00096	.00949	4.2364
#2	.10718	7.0844	.00090	.00249	4.1136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05545**	**1.2867**	**.67981**	**-.00085**	**.09918**
Stddev	.00008	.0041	.00031	.00078	.00060
%RSD	.13990	.31724	.04598	91.791	.60859
#1	.05551	1.2838	.68003	-.00030	.09876
#2	.05540	1.2896	.67959	-.00140	.09961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-c-7-b Acquired: 7/26/2017 17:45:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.33983
Stddev	.00386
%RSD	1.1370
#1	.33709
#2	.34256
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3346.5	2502.7	17528.	3396.2
Stddev	1.2	1.1	68.	20.3
%RSD	.03697	.04570	.38600	.59866
#1	3345.7	2501.9	17576.	3410.6
#2	3347.4	2503.5	17480.	3381.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.749%	103.84%	101.73%	106.63%
Range				

Sample Name: 480-121578-a-8-b Acquired: 7/26/2017 17:48:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**76.989**	**.01328**	**.16354**	**.37511**
Stddev	.00031	.314	.00058	.00086	.00007
%RSD	50.867	.40759	4.3866	.52652	.01841
#1	-.00084	76.768	.01287	.16415	.37506
#2	-.00040	77.211	.01369	.16293	.37516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00298**	**208.76**	**.00179**	**.2188**	**.03374**
Stddev	.00001	1.11	.00000	.0011	.00000
%RSD	.39176	.53063	.13378	.5046	.00095
#1	.00297	207.98	.00179	.2180	.03374
#2	.00299	209.55	.00178	.2195	.03374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09227**	**.08047**	**87.504**	**23.302**	**.15173**
Stddev	.00066	.00127	.401	.217	.00007
%RSD	.71571	1.5755	.45835	.92954	.04412
#1	.09274	.07957	87.220	23.149	.15168
#2	.09180	.08136	87.788	23.455	.15177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-8-b Acquired: 7/26/2017 17:48:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.569**	**1.7003**	**.00107**	**2.4390**	**.07885**
Stddev	.107	.0023	.00020	.0028	.00029
%RSD	.18938	.13348	18.525	.11459	.36749
#1	56.644	1.7019	.00093	2.4370	.07905
#2	56.493	1.6987	.00121	2.4410	.07864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10664**	**6.2349**	**-.00206**	**.00153**	**3.8299**
Stddev	.00145	.0022	.00249	.00447	.0466
%RSD	1.3640	.03473	120.71	291.91	1.2160
#1	.10561	6.2334	-.00382	-.00163	3.7969
#2	.10766	6.2364	-.00030	.00469	3.8628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05480**	**1.3244**	**.89759**	**-.00047**	**.12413**
Stddev	.00025	.0030	.00257	.00007	.00068
%RSD	.45898	.22718	.28655	15.766	.54868
#1	.05462	1.3223	.89577	-.00041	.12461
#2	.05498	1.3266	.89940	-.00052	.12365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121578-a-8-b Acquired: 7/26/2017 17:48:53 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.47897**
Stddev	.00023
%RSD	.04754
#1	.47913
#2	.47881
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3116.1**	**2417.0**	**16925.**	**3338.7**
Stddev	.0	1.8	29.	29.6
%RSD	.00137	.07265	.16964	.88736
#1	3116.0	2415.7	16905.	3359.6
#2	3116.1	2418.2	16946.	3317.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.568%	100.28%	98.229%	104.83%
Range				

Sample Name: 480-121494-a-1-a Acquired: 7/26/2017 17:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00404**	**36.556**	**.11613**	**12.788**	F **10.756**
Stddev	.00018	.005	.00047	.001	.009
%RSD	4.4349	.01283	.40365	.00559	.08350
#1	.00391	36.559	.11646	12.789	10.762
#2	.00416	36.553	.11580	12.788	10.749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**147.93**	**.06668**	**.0803**	**.04987**
Stddev	.00006	.18	.00025	.0055	.00054
%RSD	13.866	.11992	.36972	6.868	1.0917
#1	-.00037	147.81	.06685	.0764	.05025
#2	-.00044	148.06	.06650	.0842	.04948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.3927**	**10.292**	**341.88**	**2.3074**	**.04255**
Stddev	.0018	.027	.16	.0278	.00046
%RSD	.02811	.26315	.04661	1.2047	1.0906
#1	6.3940	10.273	341.77	2.3270	.04287
#2	6.3915	10.311	342.00	2.2877	.04222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121494-a-1-a Acquired: 7/26/2017 17:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**92.622**	**5.9305**	**.38996**	**12.117**	**2.2771**
Stddev	.126	.0122	.00028	.000	.0004
%RSD	.13558	.20638	.07104	.00314	.01819
#1	92.534	5.9219	.39015	12.117	2.2768
#2	92.711	5.9392	.38976	12.117	2.2774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34340**	**20.712**	**.19200**	**.01019**	**5.4463**
Stddev	.00224	.021	.00241	.00237	.0001
%RSD	.65153	.10134	1.2531	23.221	.00219
#1	.34498	20.727	.19370	.01186	5.4464
#2	.34182	20.697	.19030	.00851	5.4463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54682**	**1.0350**	**.57211**	**-.00238**	**.07493**
Stddev	.00054	.0004	.00276	.00098	.00055
%RSD	.09876	.04294	.48178	41.196	.72943
#1	.54720	1.0353	.57016	-.00168	.07454
#2	.54644	1.0346	.57406	-.00307	.07532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121494-a-1-a Acquired: 7/26/2017 17:52:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**12.572**
Stddev	.046
%RSD	.36225
#1	12.540
#2	12.604
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3137.3**	**2309.9**	**16614.**	**3298.4**
Stddev	.7	.5	39.	8.6
%RSD	.02355	.02125	.23241	.26126
#1	3137.8	2309.6	16641.	3304.5
#2	3136.8	2310.3	16586.	3292.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.138%	95.843%	96.419%	103.56%
Range				

Sample Name: BLANK Acquired: 7/26/2017 17:55:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00326**	**.00154**	**.01896**	**.00052**
Stddev	.00052	.01571	.00178	.00153	.00003
%RSD	92.865	481.74	114.91	8.0658	6.2959
#1	-.00092	.01437	.00029	.02005	.00055
#2	-.00019	-.00785	.00280	.01788	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02558**	**.00002**	**-.0396**	**-.00000**
Stddev	.00003	.00633	.00009	.0036	.00024
%RSD	395.23	24.743	404.74	9.125	27511.
#1	.00003	.02110	.00009	-.0370	-.00017
#2	-.00002	.03005	-.00004	-.0421	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00080**	**.01859**	**.02092**	**.00164**
Stddev	.00006	.00001	.00162	.02887	.00160
%RSD	13.649	1.1734	8.6995	137.99	97.634
#1	.00049	.00081	.01744	.04133	.00051
#2	.00040	.00080	.01973	.00051	.00277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 17:55:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01007**	**.00029**	**-.00003**	**.00935**	**.00017**
Stddev	.00196	.00002	.00023	.00565	.00009
%RSD	19.506	8.1315	788.18	60.434	55.940
#1	.01146	.00030	-.00019	.01335	.00023
#2	.00868	.00027	.00013	.00535	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00417**	**.00038**	**.00169**	**.00529**
Stddev	.00080	.00291	.00131	.00229	.00752
%RSD	144.25	69.837	341.52	135.75	142.14
#1	.00001	.00623	-.00054	.00007	-.00003
#2	-.00112	.00211	.00131	.00331	.01061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00012**	**.00084**	**.00008**	**.00044**
Stddev	.00034	.00004	.00061	.00008	.00074
%RSD	75.818	31.393	72.597	99.102	167.01
#1	-.00069	.00009	.00127	.00002	-.00008
#2	-.00021	.00014	.00041	.00014	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 17:55:46 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00080
Stddev	.00000
%RSD	.16452
#1	.00080
#2	.00080
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3718.7	2394.5	17017.	3127.4
Stddev	2.6	4.9	52.	10.9
%RSD	.07067	.20582	.30747	.34922
#1	3716.9	2391.0	16980.	3119.7
#2	3720.6	2398.0	17054.	3135.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.731%	99.352%	98.762%	98.194%
Range				

Sample Name: mb 480-368587/1-a Acquired: 7/26/2017 17:59:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00521**	**-.00059**	**.01260**	**.00035**
Stddev	.00022	.00085	.00032	.00043	.00004
%RSD	83.901	16.295	55.055	3.3774	11.425
#1	-.00042	.00461	-.00036	.01290	.00032
#2	-.00011	.00581	-.00081	.01230	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.05916**	**.00009**	**-.0509**	**-.00010**
Stddev	.00003	.00010	.00004	.0164	.00006
%RSD	59.905	.17284	51.767	32.22	58.382
#1	-.00008	.05923	.00005	-.0393	-.00006
#2	-.00003	.05909	.00012	-.0626	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**.00045**	**.01343**	**.09431**	**-.00053**
Stddev	.00000	.00005	.00119	.01155	.00043
%RSD	.04943	10.789	8.8897	12.248	80.161
#1	.00088	.00048	.01427	.10248	-.00023
#2	.00088	.00041	.01258	.08614	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368587/1-a Acquired: 7/26/2017 17:59:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00644**	**.00083**	**-.00001**	**.06660**	**.00025**
Stddev	.00326	.00004	.00023	.01524	.00004
%RSD	50.632	4.7459	1798.7	22.885	15.272
#1	.00413	.00080	.00015	.05582	.00028
#2	.00874	.00086	-.00018	.07737	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.03065**	**.00057**	**.00152**	**.32470**
Stddev	.00082	.00372	.00015	.00092	.00668
%RSD	1176.0	12.121	26.497	60.406	2.0565
#1	-.00051	.02802	.00046	.00217	.31998
#2	.00065	.03328	.00067	.00087	.32942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04709**	**.00025**	**.00043**	**-.00023**	**.00032**
Stddev	.00082	.00003	.00032	.00038	.00000
%RSD	1.7403	12.964	73.952	166.26	.99195
#1	.04651	.00022	.00066	-.00049	.00032
#2	.04767	.00027	.00021	.00004	.00031
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368587/1-a Acquired: 7/26/2017 17:59:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00157
Stddev	.00024
%RSD	15.281
#1	.00140
#2	.00174
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3760.1	2396.4	17174.	3171.7
Stddev	12.0	5.4	69.	1.8
%RSD	.32002	.22334	.40091	.05746
#1	3768.6	2400.2	17125.	3170.4
#2	3751.6	2392.7	17222.	3172.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.84%	99.432%	99.670%	99.583%
Range				

Sample Name: lcssrm 480-368587/2- Acquired: 7/26/2017 18:02:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50643**	**96.228**	**1.8633**	**.69703**	**3.7964**
Stddev	.00324	.096	.0021	.00013	.0158
%RSD	.63927	.10027	.11330	.01919	.41498
#1	.50414	96.160	1.8618	.69712	3.7853
#2	.50872	96.296	1.8648	.69693	3.8076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99181**	**53.264**	**1.1104**	**1.584**	**2.0793**
Stddev	.00170	.111	.0011	.011	.0002
%RSD	.17188	.20786	.09573	.6825	.00829
#1	.99061	53.185	1.1112	1.592	2.0791
#2	.99302	53.342	1.1097	1.576	2.0794
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.68003**	**.79073**	**145.81**	**30.749**	**.07722**
Stddev	.00494	.00218	.71	.092	.00022
%RSD	.72690	.27527	.48710	.29823	.29071
#1	.67653	.79227	145.31	30.684	.07738
#2	.68352	.78919	146.31	30.814	.07706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: lcssrm 480-368587/2- Acquired: 7/26/2017 18:02:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.379**	**4.1212**	**.57100**	**6.0225**	**1.9310**
Stddev	.076	.0098	.00038	.0126	.0049
%RSD	.25755	.23869	.06689	.20974	.25426
#1	29.325	4.1142	.57127	6.0136	1.9345
#2	29.432	4.1281	.57073	6.0314	1.9275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77472**	**1.3516**	**.72048**	**.93941**	**3.7522**
Stddev	.00287	.0037	.00250	.00270	.0356
%RSD	.37021	.27438	.34703	.28702	.94972
#1	.77269	1.3543	.72225	.94132	3.7270
#2	.77675	1.3490	.71872	.93750	3.7774
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99961**	**1.3746**	**4.6416**	**1.5246**	**1.4031**
Stddev	.00042	.0014	.0157	.0008	.0092
%RSD	.04227	.09789	.33711	.05284	.65654
#1	.99991	1.3755	4.6305	1.5240	1.3966
#2	.99931	1.3736	4.6527	1.5252	1.4096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcssrm 480-368587/2- Acquired: 7/26/2017 18:02:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.8752**
Stddev	.0072
%RSD	.25140
#1	2.8701
#2	2.8803
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3208.0**	**2718.2**	**19358.**	**3749.9**
Stddev	6.1	5.8	30.	6.9
%RSD	.19055	.21275	.15667	.18397
#1	3203.7	2714.1	19380.	3754.8
#2	3212.3	2722.3	19337.	3745.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.033%	112.78%	112.35%	117.74%
Range				

Sample Name: 480-121506-c-16-b Acquired: 7/26/2017 18:05:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**70.037**	**.02812**	**.16384**	**.40392**
Stddev	.00004	.144	.00052	.00046	.00036
%RSD	6.6236	.20552	1.8358	.27837	.08896
#1	-.00055	69.936	.02775	.16417	.40367
#2	-.00060	70.139	.02848	.16352	.40418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00253**	F **1020.8**	**.00226**	**.1895**	**.03596**
Stddev	.00001	9.4	.00008	.0267	.00032
%RSD	.36541	.91610	3.3307	14.11	.89993
#1	.00253	1014.2	.00231	.1706	.03619
#2	.00254	1027.4	.00220	.2084	.03573
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3013**	**1.1244**	**71.699**	**25.285**	**.24085**
Stddev	.0010	.0042	.370	.277	.00378
%RSD	.07887	.37255	.51545	1.0964	1.5710
#1	1.3006	1.1215	71.437	25.089	.23818
#2	1.3020	1.1274	71.960	25.481	.24353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-16-b Acquired: 7/26/2017 18:05:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**338.91**	**1.7811**	**.00471**	**2.5055**	**1.7555**
Stddev	.15	.0024	.00028	.0057	.0046
%RSD	.04435	.13424	5.9005	.22937	.26033
#1	339.02	1.7794	.00491	2.5014	1.7523
#2	338.80	1.7828	.00451	2.5095	1.7588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39144**	**3.9306**	**.00398**	**-.00128**	**3.8814**
Stddev	.00225	.0004	.00066	.00126	.0272
%RSD	.57386	.00970	16.628	98.202	.70000
#1	.38985	3.9309	.00351	-.00217	3.9006
#2	.39302	3.9304	.00445	-.00039	3.8622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17588**	**1.3414**	**.84448**	**-.00035**	**.12728**
Stddev	.00085	.0059	.01305	.00034	.00077
%RSD	.48601	.44143	1.5455	95.972	.60106
#1	.17528	1.3373	.83525	-.00059	.12674
#2	.17648	1.3456	.85371	-.00011	.12782
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-16-b Acquired: 7/26/2017 18:05:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.42694**
Stddev	.00152
%RSD	.35581
#1	.42802
#2	.42587
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2667.6**	**2235.7**	**15842.**	**3258.4**
Stddev	3.5	1.5	52.	27.7
%RSD	.13261	.06745	.32918	.85061
#1	2670.1	2236.7	15806.	3278.0
#2	2665.1	2234.6	15879.	3238.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.540%	92.761%	91.944%	102.31%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:09:22 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49162**	**25.001**	**.48926**	**.51730**	**.51209**
Stddev	.00026	.077	.00096	.00034	.00212
%RSD	.05250	.30943	.19586	.06501	.41443
#1	.49181	24.946	.48994	.51754	.51059
#2	.49144	25.056	.48859	.51706	.51359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51078**	**24.696**	**.50896**	**-.0563**	**.49655**
Stddev	.00162	.032	.00012	.0082	.00059
%RSD	.31628	.13034	.02325	14.59	.11911
#1	.50964	24.673	.50888	-.0505	.49697
#2	.51193	24.719	.50905	-.0621	.49613
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50120**	**.53272**	**24.099**	**26.007**	**.51317**
Stddev	.00094	.00062	.007	.108	.00023
%RSD	.18786	.11707	.02987	.41535	.04573
#1	.50053	.53228	24.104	25.930	.51300
#2	.50186	.53316	24.094	26.083	.51333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:09:22 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.458**	**.52584**	**.49986**	**25.416**	**.50547**
Stddev	.157	.00107	.00034	.047	.00021
%RSD	.61694	.20322	.06707	.18400	.04101
#1	25.347	.52508	.49962	25.383	.50561
#2	25.569	.52660	.50009	25.449	.50532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49714**	**25.169**	**.50682**	**.49917**	**24.031**
Stddev	.00041	.031	.00123	.00394	.048
%RSD	.08184	.12433	.24339	.78969	.19845
#1	.49685	25.147	.50769	.49638	23.997
#2	.49743	25.191	.50594	.50196	24.065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50635**	**.49443**	**.50042**	**.49765**	**.50244**
Stddev	.00121	.00029	.00209	.00002	.00079
%RSD	.23801	.05941	.41841	.00374	.15798
#1	.50720	.49422	.49894	.49763	.50300
#2	.50550	.49463	.50190	.49766	.50188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:09:22 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50129
Stddev	.00015
%RSD	.03074
#1	.50118
#2	.50140
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3384.5	2357.9	16566.	3130.6
Stddev	8.3	2.4	42.	9.8
%RSD	.24531	.10176	.25641	.31152
#1	3378.7	2356.2	16596.	3137.5
#2	3390.4	2359.6	16536.	3123.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:12:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.02411**	**.00103**	**.00510**	**.00015**
Stddev	.00029	.00124	.00113	.00017	.00001
%RSD	59.738	5.1256	109.04	3.3562	5.2573
#1	-.00028	.02324	.00024	.00522	.00014
#2	-.00069	.02499	.00183	.00498	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.02690**	**.00004**	**-.0248**	**-.00001**
Stddev	.00012	.00258	.00007	.0369	.00009
%RSD	436.18	9.6022	172.57	148.9	943.36
#1	-.00011	.02508	-.00001	.0013	.00006
#2	.00006	.02873	.00009	-.0509	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00045**	**.00844**	**.06712**	**-.00051**
Stddev	.00003	.00064	.00036	.03880	.00033
%RSD	10.013	142.99	4.2926	57.804	64.457
#1	.00026	.00090	.00869	.03969	-.00075
#2	.00030	-.00000	.00818	.09455	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:12:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01263**	**.00016**	**.00001**	**.01833**	**-.00005**
Stddev	.00134	.00003	.00019	.01805	.00025
%RSD	10.604	16.729	1846.8	98.482	475.80
#1	.01358	.00014	-.00012	.00556	.00012
#2	.01169	.00017	.00014	.03109	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.00276**	**.00139**	**.00392**	**.01716**
Stddev	.00038	.00238	.00118	.00326	.01147
%RSD	57.586	86.174	84.810	83.043	66.843
#1	-.00093	.00444	.00222	.00162	.00905
#2	-.00039	.00108	.00056	.00622	.02527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00011**	**.00065**	**-.00033**	**-.00057**
Stddev	.00002	.00008	.00071	.00069	.00009
%RSD	11.639	68.020	107.68	207.14	15.836
#1	.00016	.00017	.00016	-.00082	-.00051
#2	.00013	.00006	.00115	.00016	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:12:34 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00061
Stddev	.00002
%RSD	3.5595
#1	.00059
#2	.00062
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3700.7	2380.5	16862.	3137.8
Stddev	1.6	1.0	23.	23.2
%RSD	.04326	.04114	.13674	.73950
#1	3699.5	2381.2	16845.	3154.3
#2	3701.8	2379.8	16878.	3121.4

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:16:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**.21297**	**.01401**	**.02456**	**.00223**
Stddev	.00029	.00435	.00050	.00018	.00004
%RSD	6.0079	2.0408	3.5936	.73412	1.7416
#1	.00504	.21604	.01366	.02443	.00221
#2	.00463	.20990	.01437	.02469	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.52357**	**.00218**	**-.0248**	**.00379**
Stddev	.00005	.00125	.00003	.0110	.00015
%RSD	2.4834	.23964	1.3634	44.14	3.9909
#1	.00214	.52268	.00220	-.0171	.00390
#2	.00206	.52446	.00216	-.0326	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	**.01105**	**.05707**	**.59160**	**.03071**
Stddev	.00044	.00132	.00076	.00490	.00149
%RSD	9.0423	11.969	1.3293	.82828	4.8369
#1	.00455	.01199	.05653	.59506	.03176
#2	.00518	.01012	.05761	.58813	.02966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:16:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21478**	**.00327**	**.01001**	**1.0333**	**.00993**
Stddev	.00610	.00001	.00019	.0122	.00010
%RSD	2.8398	.29809	1.8942	1.1795	1.0090
#1	.21910	.00328	.00988	1.0419	.01000
#2	.21047	.00327	.01014	1.0247	.00986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01000**	**.19595**	**.02134**	**.02594**	**.50256**
Stddev	.00059	.00169	.00111	.00242	.00425
%RSD	5.8992	.86226	5.1997	9.3279	.84559
#1	.00959	.19714	.02213	.02765	.50556
#2	.01042	.19475	.02056	.02423	.49955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00955**	**.00501**	**.00532**	**.02127**	**.00488**
Stddev	.00042	.00007	.00019	.00113	.00040
%RSD	4.3638	1.4862	3.5991	5.3191	8.2772
#1	.00925	.00496	.00545	.02047	.00517
#2	.00984	.00506	.00518	.02207	.00460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:16:03 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01133
Stddev	.00031
%RSD	2.7511
#1	.01111
#2	.01155
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3711.1	2401.4	16985.	3128.9
Stddev	4.4	2.2	88.	20.8
%RSD	.11764	.09207	.51876	.66319
#1	3708.0	2399.9	17047.	3114.2
#2	3714.2	2403.0	16922.	3143.5

Sample Name: 480-121506-a-17-a Acquired: 7/26/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	**81.926**	**.03723**	**.17686**	**.60012**
Stddev	.00032	.354	.00248	.00025	.00521
%RSD	18.471	.43195	6.6696	.14121	.86820
#1	.00194	82.176	.03548	.17669	.59644
#2	.00149	81.676	.03899	.17704	.60381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00313**	F **1120.6**	**.03594**	**.2485**	**.04620**
Stddev	.00002	.1	.00021	.0089	.00005
%RSD	.56998	.01243	.57074	3.592	.10630
#1	.00315	1120.7	.03608	.2548	.04624
#2	.00312	1120.5	.03579	.2422	.04617
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.54086**	**.54463**	**91.791**	**28.814**	**.24745**
Stddev	.00074	.00056	.622	.105	.00056
%RSD	.13718	.10264	.67718	.36341	.22821
#1	.54139	.54424	92.231	28.888	.24705
#2	.54034	.54503	91.352	28.740	.24785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-a-17-a Acquired: 7/26/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**419.25**	**2.6762**	**.00754**	**1.5109**	**.54398**
Stddev	1.44	.0078	.00017	.0022	.00110
%RSD	.34461	.29283	2.2273	.14344	.20223
#1	418.23	2.6707	.00765	1.5094	.54320
#2	420.27	2.6818	.00742	1.5124	.54476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.31548**	**7.7562**	**.00151**	**-.00062**	**5.1685**
Stddev	.00056	.0053	.00015	.00482	.0909
%RSD	.17687	.06805	10.210	776.58	1.7579
#1	.31588	7.7524	.00140	-.00403	5.2327
#2	.31509	7.7599	.00162	.00279	5.1042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11592**	**8.9135**	**1.0027**	**.00028**	**.15863**
Stddev	.00139	.0557	.0056	.00003	.00083
%RSD	1.1960	.62466	.55556	10.055	.52341
#1	.11494	8.9528	.99876	.00026	.15804
#2	.11690	8.8741	1.0066	.00030	.15921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-a-17-a Acquired: 7/26/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.48755**
Stddev	.00243
%RSD	.49764
#1	.48584
#2	.48927
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2574.5**	**2230.2**	**15859.**	**3298.1**
Stddev	.2	2.1	83.	13.7
%RSD	.00835	.09353	.52385	.41621
#1	2574.6	2231.7	15917.	3288.4
#2	2574.3	2228.7	15800.	3307.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.043%	92.536%	92.037%	103.55%
Range				

Sample Name: 121506-a-18-a Acquired: 7/26/2017 18:23:04 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**99.192**	**.04153**	**.17846**	**.71528**
Stddev	.00026	.060	.00220	.00028	.00051
%RSD	10.221	.06055	5.2948	.15436	.07115
#1	.00233	99.235	.03998	.17827	.71564
#2	.00269	99.150	.04309	.17866	.71492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00395**	**614.53**	**.00747**	**.2942**	**.05916**
Stddev	.00014	4.87	.00003	.0051	.00057
%RSD	3.5028	.79198	.39831	1.729	.96061
#1	.00385	617.97	.00750	.2978	.05876
#2	.00405	611.08	.00745	.2906	.05956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28773**	**.45400**	**127.68**	**30.043**	**.28269**
Stddev	.00138	.00031	.14	.008	.00220
%RSD	.47953	.06878	.11315	.02754	.77923
#1	.28870	.45422	127.78	30.048	.28425
#2	.28675	.45378	127.57	30.037	.28113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-a Acquired: 7/26/2017 18:23:04 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**217.46**	**2.4634**	**.01058**	**1.3380**	**.51626**
Stddev	.06	.0024	.00001	.0075	.00021
%RSD	.02595	.09886	.08426	.56191	.04104
#1	217.42	2.4617	.01057	1.3434	.51611
#2	217.50	2.4651	.01058	1.3327	.51641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77425**	**3.8492**	**-.00044**	**-.00001**	**4.2244**
Stddev	.00223	.0027	.00132	.00217	.0841
%RSD	.28785	.07119	301.66	18718.	1.9897
#1	.77268	3.8512	-.00138	.00152	4.2838
#2	.77583	3.8473	.00050	-.00155	4.1650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09990**	**2.0770**	**1.2578**	**-.00373**	**.19615**
Stddev	.00140	.0049	.0034	.00072	.00082
%RSD	1.4006	.23453	.27340	19.276	.41993
#1	.10089	2.0805	1.2602	-.00322	.19557
#2	.09891	2.0736	1.2554	-.00424	.19674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-a Acquired: 7/26/2017 18:23:04 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0275**
Stddev	.0059
%RSD	.57545
#1	1.0234
#2	1.0317
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2778.6**	**2372.7**	**16801.**	**3410.6**
Stddev	3.1	1.7	21.	15.4
%RSD	.10991	.07212	.12785	.45029
#1	2780.7	2373.9	16816.	3399.8
#2	2776.4	2371.4	16786.	3421.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.517%	98.446%	97.508%	107.09%
Range				

Sample Name: 121506-a-18-aSD@5 Acquired: 7/26/2017 18:26:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**21.464**	**.00970**	**.04287**	**.16135**
Stddev	.00138	.033	.00083	.00035	.00010
%RSD	10408.	.15311	8.5958	.80689	.06047
#1	.00096	21.441	.01029	.04312	.16142
#2	-.00099	21.487	.00911	.04263	.16128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**141.31**	**.00170**	**.0333**	**.01149**
Stddev	.00000	.34	.00007	.0054	.00008
%RSD	.07713	.24075	3.9253	16.31	.72353
#1	.00083	141.07	.00175	.0371	.01155
#2	.00083	141.55	.00166	.0294	.01143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06462**	**.09521**	**28.968**	**6.4448**	**.06067**
Stddev	.00092	.00028	.072	.0401	.00076
%RSD	1.4231	.29584	.24948	.62217	1.2466
#1	.06527	.09541	28.917	6.4164	.06121
#2	.06397	.09501	29.019	6.4731	.06014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-aSD@5 Acquired: 7/26/2017 18:26:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.944**	**.55307**	**.00224**	**.29792**	**.10202**
Stddev	.046	.00040	.00004	.00187	.00007
%RSD	.09849	.07152	1.7828	.62923	.07157
#1	46.912	.55335	.00227	.29925	.10207
#2	46.977	.55279	.00221	.29660	.10197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15532**	**.81847**	**.00012**	**-.00147**	**.93445**
Stddev	.00181	.00343	.00062	.00204	.00126
%RSD	1.1685	.41920	501.84	138.99	.13479
#1	.15660	.82089	-.00032	-.00003	.93534
#2	.15403	.81604	.00057	-.00291	.93356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01946**	**.45230**	**.27884**	**.00096**	**.04305**
Stddev	.00024	.00027	.00237	.00044	.00041
%RSD	1.2275	.06071	.85019	45.278	.95877
#1	.01929	.45211	.28051	.00127	.04334
#2	.01963	.45250	.27716	.00065	.04276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-aSD@5 Acquired: 7/26/2017 18:26:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.24083**
Stddev	.00119
%RSD	.49251
#1	.24167
#2	.23999
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3247.3**	**2341.0**	**16546.**	**3196.6**
Stddev	.5	3.7	17.	16.2
%RSD	.01642	.15838	.10440	.50729
#1	3247.7	2343.7	16559.	3208.0
#2	3246.9	2338.4	16534.	3185.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.088%	97.134%	96.029%	100.37%
Range				

Sample Name: 121506-a-18-a PDS Acquired: 7/26/2017 18:29:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09848**	**116.16**	**.41032**	**.53555**	**1.0778**
Stddev	.00040	.52	.00106	.00109	.0001
%RSD	.40654	.44621	.25797	.20423	.01001
#1	.09820	116.53	.41107	.53478	1.0779
#2	.09876	115.80	.40957	.53633	1.0778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37197**	**624.34**	**.39625**	**.2970**	**.46391**
Stddev	.00069	.55	.00029	.0002	.00011
%RSD	.18534	.08762	.07382	.0706	.02376
#1	.37246	623.95	.39604	.2972	.46383
#2	.37148	624.72	.39646	.2969	.46398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.63831**	**.85212**	**142.52**	**49.150**	**.67201**
Stddev	.00241	.00222	.24	.025	.00173
%RSD	.37770	.26025	.17146	.04997	.25702
#1	.63660	.85369	142.70	49.133	.67323
#2	.64001	.85055	142.35	49.168	.67079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-a PDS Acquired: 7/26/2017 18:29:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**233.80**	**2.8019**	**.36228**	**20.411**	**.91598**
Stddev	.79	.0106	.00110	.055	.00063
%RSD	.33864	.37654	.30392	.26983	.06850
#1	233.24	2.7944	.36150	20.450	.91554
#2	234.36	2.8093	.36306	20.372	.91643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1816**	**3.8018**	**.38781**	**.37790**	**5.3095**
Stddev	.0020	.0083	.00332	.00298	.0859
%RSD	.16748	.21747	.85545	.78805	1.6176
#1	1.1802	3.7959	.38546	.37579	5.2488
#2	1.1830	3.8076	.39015	.38000	5.3702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09969**	**2.4092**	**1.6409**	**.38983**	**.56656**
Stddev	.00052	.0077	.0223	.00025	.00241
%RSD	.51963	.32042	1.3613	.06529	.42466
#1	.10006	2.4146	1.6251	.38965	.56486
#2	.09933	2.4037	1.6567	.39001	.56826
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-a PDS Acquired: 7/26/2017 18:29:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.3627
Stddev	.0090
%RSD	.65718
#1	1.3563
#2	1.3690
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2744.2	2360.9	16584.	3411.1
Stddev	2.8	3.4	61.	5.3
%RSD	.10122	.14500	.36581	.15603
#1	2746.2	2363.3	16627.	3407.3
#2	2742.2	2358.5	16541.	3414.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.595%	97.957%	96.246%	107.10%
Range				

Sample Name: 121506-a-18-b ms Acquired: 7/26/2017 18:33:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.06549	126.45	.28485	.46597	.99206
Stddev	.00005	.90	.00027	.00113	.00901
%RSD	.08202	.71311	.09519	.24204	.90865
#1	.06552	125.82	.28466	.46517	.98569
#2	.06545	127.09	.28505	.46677	.99844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.25873	416.53	.27197	.2445	.31817
Stddev	.00150	.27	.00054	.0068	.00097
%RSD	.57824	.06514	.20014	2.776	.30577
#1	.25767	416.72	.27159	.2493	.31886
#2	.25979	416.34	.27236	.2397	.31748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49537	.62529	107.59	54.169	.51688
Stddev	.00286	.00528	1.11	.502	.00560
%RSD	.57728	.84376	1.0283	.92764	1.0842
#1	.49335	.62903	106.81	53.814	.51292
#2	.49739	.62156	108.37	54.525	.52084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-b ms Acquired: 7/26/2017 18:33:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**175.11**	**2.0465**	**.24531**	**14.451**	**.66520**
Stddev	.57	.0057	.00008	.113	.00015
%RSD	.32765	.28068	.03245	.77989	.02234
#1	175.51	2.0506	.24537	14.371	.66509
#2	174.70	2.0425	.24526	14.530	.66530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.85047**	**15.882**	**.19284**	**.25561**	**3.3009**
Stddev	.00037	.007	.00060	.00340	.0243
%RSD	.04313	.04677	.30966	1.3287	.73471
#1	.85021	15.877	.19242	.25321	3.2837
#2	.85073	15.887	.19326	.25801	3.3180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35538**	**1.7703**	**1.7687**	**.26665**	**.46276**
Stddev	.00107	.0149	.0038	.00136	.00190
%RSD	.30068	.84288	.21423	.50987	.40958
#1	.35614	1.7598	1.7660	.26761	.46142
#2	.35463	1.7809	1.7714	.26569	.46410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-b ms Acquired: 7/26/2017 18:33:19 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0502
Stddev	.0039
%RSD	.36792
#1	1.0475
#2	1.0529
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2867.0	2377.7	16632.	3333.3
Stddev	3.0	4.7	22.	18.6
%RSD	.10342	.19682	.12995	.55825
#1	2869.1	2381.0	16647.	3346.4
#2	2864.9	2374.4	16617.	3320.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.888%	98.656%	96.526%	104.66%
Range				

Sample Name: 121506-a-18-c msd Acquired: 7/26/2017 18:36:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09097**	**158.68**	**.39113**	**.62015**	**1.2045**
Stddev	.00167	.17	.00201	.00006	.0007
%RSD	1.8330	.10610	.51466	.00917	.05635
#1	.09215	158.80	.38970	.62019	1.2040
#2	.08979	158.57	.39255	.62011	1.2050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34274**	F **965.02**	**.37257**	**.3510**	**.44953**
Stddev	.00174	13.02	.00039	.0030	.00026
%RSD	.50869	1.3493	.10430	.8419	.05775
#1	.34398	974.23	.37285	.3489	.44935
#2	.34151	955.81	.37230	.3531	.44971
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.62582**	**.79938**	**125.58**	**71.689**	**.70521**
Stddev	.00492	.00076	.91	.074	.00054
%RSD	.78573	.09568	.72199	.10361	.07665
#1	.62930	.79884	126.22	71.741	.70483
#2	.62235	.79992	124.94	71.636	.70559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-c msd Acquired: 7/26/2017 18:36:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**350.16**	**3.2030**	**.33179**	**19.995**	**.87354**
Stddev	.97	.0111	.00090	.037	.00117
%RSD	.27785	.34614	.27257	.18337	.13450
#1	350.85	3.2108	.33115	20.021	.87437
#2	349.47	3.1951	.33243	19.969	.87271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0703**	**22.556**	**.28832**	**.34422**	**5.1112**
Stddev	.0008	.004	.00168	.00692	.0323
%RSD	.07155	.01983	.58406	2.0091	.63263
#1	1.0698	22.560	.28951	.34911	5.1341
#2	1.0709	22.553	.28713	.33933	5.0883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49989**	**2.4382**	**2.1803**	**.36731**	**.61990**
Stddev	.00030	.0028	.0153	.00060	.00374
%RSD	.06022	.11374	.69968	.16201	.60331
#1	.50010	2.4402	2.1910	.36773	.62255
#2	.49968	2.4363	2.1695	.36689	.61726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121506-a-18-c msd Acquired: 7/26/2017 18:36:44 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.2170**
Stddev	.0084
%RSD	.69119
#1	1.2230
#2	1.2111
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2552.9**	**2316.2**	**16259.**	**3425.4**
Stddev	.8	2.3	68.	20.8
%RSD	.03289	.10041	.41926	.60682
#1	2553.4	2317.8	16211.	3410.7
#2	2552.3	2314.5	16307.	3440.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.464%	96.102%	94.361%	107.55%
Range				

Sample Name: 480-121506-a-19-a Acquired: 7/26/2017 18:40:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**76.389**	**.03421**	**.14275**	**1.7565**
Stddev	.00040	.138	.00372	.00040	.0046
%RSD	44.476	.18127	10.865	.28328	.26437
#1	-.00062	76.487	.03683	.14303	1.7532
#2	-.00120	76.291	.03158	.14246	1.7598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00297**	**762.79**	**.00216**	**.2377**	**.05103**
Stddev	.00001	2.16	.00010	.0253	.00020
%RSD	.24222	.28323	4.6984	10.66	.39772
#1	.00296	764.32	.00223	.2198	.05118
#2	.00297	761.26	.00209	.2557	.05089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49087**	**1.0188**	**95.664**	**24.634**	**.21167**
Stddev	.00258	.0037	.018	.079	.00025
%RSD	.52474	.35986	.01910	.32194	.11750
#1	.49269	1.0162	95.651	24.578	.21150
#2	.48905	1.0214	95.677	24.690	.21185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-a-19-a Acquired: 7/26/2017 18:40:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**232.09**	**2.7880**	**.00854**	**1.1379**	**1.1349**
Stddev	.17	.0008	.00013	.0113	.0004
%RSD	.07125	.02770	1.5125	.98920	.03388
#1	232.21	2.7875	.00864	1.1459	1.1351
#2	231.97	2.7886	.00845	1.1300	1.1346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.70774**	**10.851**	**.00224**	**-.00080**	**2.9572**
Stddev	.00018	.008	.00003	.00445	.0768
%RSD	.02604	.07415	1.2131	557.24	2.5959
#1	.70787	10.857	.00226	.00235	3.0115
#2	.70761	10.845	.00222	-.00395	2.9030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11115**	F **14.175**	**1.0001**	**.00069**	**.21315**
Stddev	.00074	.006	.0078	.00025	.00049
%RSD	.66937	.04400	.77980	36.986	.22963
#1	.11167	14.170	1.0056	.00051	.21349
#2	.11062	14.179	.99455	.00087	.21280
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121506-a-19-a Acquired: 7/26/2017 18:40:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.62267
Stddev	.00708
%RSD	1.1376
#1	.62768
#2	.61766
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2742.2	2314.1	16335.	3354.1
Stddev	9.6	9.2	24.	11.8
%RSD	.34994	.39649	.14542	.35253
#1	2749.0	2320.6	16318.	3362.5
#2	2735.4	2307.6	16352.	3345.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.541%	96.017%	94.804%	105.31%
Range				

Sample Name: 480-121506-c-20-b Acquired: 7/26/2017 18:43:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**40.871**	**.03997**	**.12128**	**1.3227**
Stddev	.00054	.227	.00184	.00075	.0057
%RSD	37.199	.55464	4.5974	.61695	.42766
#1	-.00107	41.032	.03867	.12075	1.3267
#2	-.00184	40.711	.04127	.12181	1.3187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	F **1584.6**	**.00354**	**.2387**	**.03854**
Stddev	.00004	9.1	.00000	.0306	.00003
%RSD	2.7273	.57391	.13869	12.81	.07441
#1	.00157	1591.1	.00354	.2171	.03852
#2	.00163	1578.2	.00354	.2604	.03856
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2648**	**2.2031**	**157.76**	**15.843**	**.10409**
Stddev	.0350	.0032	.37	.101	.00115
%RSD	.81958	.14726	.23218	.63716	1.1065
#1	4.2401	2.2008	158.02	15.914	.10491
#2	4.2895	2.2054	157.51	15.771	.10328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-20-b Acquired: 7/26/2017 18:43:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**285.70**	**2.5938**	**.00935**	**1.6608**	**4.2084**
Stddev	1.25	.0127	.00024	.0038	.0043
%RSD	.43593	.49146	2.6049	.22620	.10206
#1	284.82	2.5848	.00918	1.6635	4.2114
#2	286.58	2.6029	.00952	1.6582	4.2053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.75764**	**12.330**	**.00968**	**-.00233**	**3.9401**
Stddev	.00238	.003	.00239	.00840	.0334
%RSD	.31449	.02779	24.746	359.93	.84673
#1	.75596	12.327	.00798	-.00828	3.9637
#2	.75933	12.332	.01137	.00361	3.9165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22810**	F **22.584**	**.57175**	**-.00084**	**.13704**
Stddev	.00030	.125	.00393	.00027	.00061
%RSD	.13201	.55335	.68663	32.128	.44324
#1	.22789	22.495	.56898	-.00103	.13661
#2	.22831	22.672	.57453	-.00065	.13747
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121506-c-20-b Acquired: 7/26/2017 18:43:41 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0834
Stddev	.0148
%RSD	1.3631
#1	1.0730
#2	1.0938
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2491.7	2175.1	15474.	3232.5
Stddev	1.9	3.7	127.	7.3
%RSD	.07471	.17051	.81767	.22454
#1	2493.0	2177.7	15564.	3227.4
#2	2490.4	2172.5	15385.	3237.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	66.824%	90.248%	89.805%	101.49%
Range				

Sample Name: 480-121506-c-21-d Acquired: 7/26/2017 18:47:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00195**	**160.42**	**.04746**	**.24157**	**.87219**
Stddev	.00027	.23	.00042	.00004	.00453
%RSD	13.956	.14420	.88167	.01451	.51942
#1	-.00176	160.58	.04776	.24155	.87539
#2	-.00215	160.26	.04717	.24160	.86899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00620**	**193.90**	**.00341**	**.2910**	**.07037**
Stddev	.00004	.77	.00006	.0196	.00000
%RSD	.59007	.39508	1.6283	6.725	.00116
#1	.00623	194.44	.00345	.3049	.07037
#2	.00618	193.36	.00338	.2772	.07037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51016**	**.52019**	**176.82**	**45.540**	**.33860**
Stddev	.00165	.00325	1.04	.230	.00240
%RSD	.32353	.62424	.58921	.50514	.70988
#1	.51133	.51790	177.56	45.703	.34030
#2	.50900	.52249	176.09	45.378	.33690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-d Acquired: 7/26/2017 18:47:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**81.272**	**3.7674**	**.00724**	**1.9320**	**.64120**
Stddev	.010	.0090	.00014	.0075	.00047
%RSD	.01242	.23845	1.8656	.38871	.07347
#1	81.279	3.7738	.00734	1.9373	.64154
#2	81.265	3.7611	.00715	1.9267	.64087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3909**	**4.7419**	**.00035**	**.00628**	**6.1392**
Stddev	.0022	.0026	.00177	.00397	.0010
%RSD	.02989	.05376	502.84	63.291	.01670
#1	7.3925	4.7437	.00161	.00909	6.1399
#2	7.3894	4.7401	-.00090	.00347	6.1385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09555**	**.83856**	**.82472**	**.00080**	**.28851**
Stddev	.00092	.00014	.00153	.00033	.00030
%RSD	.96441	.01643	.18585	41.429	.10257
#1	.09620	.83865	.82580	.00103	.28830
#2	.09490	.83846	.82363	.00057	.28872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-d Acquired: 7/26/2017 18:47:15 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.76445**
Stddev	.00129
%RSD	.16875
#1	.76536
#2	.76354
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3023.3**	**2530.1**	**17680.**	**3541.1**
Stddev	4.8	4.3	85.	14.3
%RSD	.15932	.17175	.47965	.40331
#1	3019.9	2527.1	17740.	3531.0
#2	3026.7	2533.2	17620.	3551.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.080%	104.98%	102.61%	111.18%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:50:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49511**	**25.046**	**.49365**	**.51410**	**.51284**
Stddev	.00244	.029	.00115	.00183	.00008
%RSD	.49377	.11414	.23338	.35653	.01634
#1	.49338	25.026	.49283	.51539	.51290
#2	.49684	25.066	.49446	.51280	.51278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51329**	**24.812**	**.50895**	**-.0387**	**.49752**
Stddev	.00230	.100	.00205	.0118	.00028
%RSD	.44894	.40362	.40265	30.60	.05645
#1	.51492	24.883	.51040	-.0303	.49772
#2	.51166	24.741	.50750	-.0471	.49732
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50339**	**.53485**	**24.165**	**26.185**	**.51533**
Stddev	.00113	.00376	.067	.128	.00105
%RSD	.22386	.70369	.27793	.48909	.20425
#1	.50259	.53751	24.213	26.275	.51608
#2	.50418	.53219	24.118	26.094	.51459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:50:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.587**	**.52851**	**.50213**	**25.576**	**.50620**
Stddev	.012	.00005	.00028	.118	.00095
%RSD	.04753	.00984	.05599	.46149	.18722
#1	25.578	.52855	.50193	25.659	.50687
#2	25.595	.52847	.50233	25.493	.50553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49808**	**25.183**	**.50886**	**.50010**	**23.993**
Stddev	.00209	.045	.00094	.00659	.070
%RSD	.41891	.17963	.18486	1.3186	.29072
#1	.49956	25.215	.50952	.49543	24.042
#2	.49661	25.151	.50819	.50476	23.944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51034**	**.49748**	**.50171**	**.49979**	**.50397**
Stddev	.00021	.00179	.00029	.00085	.00115
%RSD	.04127	.35915	.05725	.16920	.22749
#1	.51019	.49875	.50151	.49919	.50316
#2	.51048	.49622	.50191	.50038	.50478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 18:50:37 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50599
Stddev	.00101
%RSD	.19965
#1	.50670
#2	.50527
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3377.1	2355.2	16454.	3125.4
Stddev	10.4	9.3	88.	16.8
%RSD	.30832	.39303	.53341	.53667
#1	3369.7	2348.6	16516.	3113.6
#2	3384.5	2361.7	16392.	3137.3

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:53:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00620**	**.00071**	**.00212**	**.00011**
Stddev	.00038	.00678	.00025	.00038	.00001
%RSD	1308.5	109.40	35.039	17.986	12.038
#1	-.00030	.01100	.00054	.00239	.00010
#2	.00024	.00140	.00089	.00185	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.04975**	**.00006**	**-.0235**	**-.00002**
Stddev	.00000	.00362	.00014	.0403	.00009
%RSD	.48387	7.2739	215.50	171.4	467.33
#1	-.00004	.04719	-.00003	.0050	.00005
#2	-.00004	.05230	.00016	-.0520	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**-.00006**	**.00963**	**.05830**	**.00050**
Stddev	.00031	.00074	.00117	.00128	.00005
%RSD	68.939	1159.0	12.161	2.2030	10.027
#1	.00023	-.00059	.01046	.05921	.00046
#2	.00067	.00046	.00881	.05739	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:53:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01580**	**.00023**	**.00011**	**.02191**	**.00022**
Stddev	.00101	.00015	.00006	.00436	.00020
%RSD	6.4078	65.322	55.096	19.884	89.498
#1	.01509	.00033	.00015	.01883	.00036
#2	.01652	.00012	.00007	.02499	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00165**	**.00132**	**.00582**	**.02208**
Stddev	.00060	.00101	.00026	.00164	.01013
%RSD	999.32	60.991	19.385	28.159	45.859
#1	-.00048	.00236	.00151	.00466	.01492
#2	.00036	.00094	.00114	.00697	.02924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00048**	**.00016**	**.00186**	**.00040**
Stddev	.00042	.00001	.00024	.00082	.00025
%RSD	127.60	2.2865	150.82	44.136	62.605
#1	.00003	.00047	-.00001	.00128	.00058
#2	.00063	.00049	.00033	.00244	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 18:53:49 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00022
Stddev	.00025
%RSD	112.63
#1	.00040
#2	.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3702.5	2382.3	16893.	3105.7
Stddev	10.2	6.5	29.	10.1
%RSD	.27641	.27201	.17318	.32387
#1	3695.2	2377.7	16914.	3098.6
#2	3709.7	2386.9	16873.	3112.9

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:57:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00560**	**.21938**	**.01360**	**.02207**	**.00222**
Stddev	.00018	.01596	.00118	.00024	.00001
%RSD	3.2791	7.2752	8.6781	1.1057	.28107
#1	.00547	.23067	.01277	.02224	.00221
#2	.00573	.20810	.01444	.02190	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.54920**	**.00201**	**-.0243**	**.00395**
Stddev	.00009	.00454	.00004	.0333	.00017
%RSD	4.5984	.82676	1.7719	137.2	4.1828
#1	.00193	.55241	.00199	-.0478	.00383
#2	.00206	.54599	.00204	-.0007	.00407
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00474**	**.01106**	**.05846**	**.51936**	**.03207**
Stddev	.00034	.00134	.00003	.05742	.00101
%RSD	7.2022	12.072	.04406	11.056	3.1452
#1	.00450	.01201	.05844	.55996	.03278
#2	.00498	.01012	.05848	.47876	.03135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:57:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22450**	**.00331**	**.00993**	**1.0379**	**.00986**
Stddev	.00762	.00004	.00007	.0095	.00011
%RSD	3.3939	1.1950	.65976	.91212	1.1118
#1	.21911	.00333	.00988	1.0312	.00993
#2	.22989	.00328	.00998	1.0446	.00978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01070**	**.19901**	**.01925**	**.02652**	**.50529**
Stddev	.00154	.00326	.00036	.00110	.00443
%RSD	14.363	1.6369	1.8717	4.1448	.87681
#1	.00961	.20132	.01951	.02730	.50215
#2	.01179	.19671	.01900	.02574	.50842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00916**	**.00543**	**.00510**	**.02076**	**.00539**
Stddev	.00038	.00004	.00023	.00090	.00017
%RSD	4.0940	.67412	4.5518	4.3409	3.2062
#1	.00943	.00540	.00527	.02140	.00551
#2	.00890	.00546	.00494	.02012	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 18:57:18 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01106
Stddev	.00012
%RSD	1.0670
#1	.01114
#2	.01097
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3711.3	2400.9	17107.	3121.4
Stddev	7.7	4.4	106.	10.1
%RSD	.20792	.18243	.62028	.32359
#1	3716.8	2404.0	17032.	3114.2
#2	3705.9	2397.8	17182.	3128.5

Sample Name: 480-121506-c-21-e ms Acquired: 7/26/2017 19:00:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08785**	**288.30**	**.40614**	**.81684**	**1.6608**
Stddev	.00186	.44	.00343	.00025	.0117
%RSD	2.1226	.15185	.84388	.03021	.70341
#1	.08917	288.61	.40856	.81666	1.6690
#2	.08653	288.00	.40372	.81701	1.6525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36056**	**404.88**	**.37286**	**.3913**	**.47915**
Stddev	.00113	2.88	.00004	.0125	.00051
%RSD	.31345	.71042	.01056	3.203	.10651
#1	.36136	406.91	.37283	.4002	.47951
#2	.35976	402.84	.37289	.3824	.47879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82498**	**.81967**	**213.15**	**115.38**	**.78287**
Stddev	.00406	.00292	.83	.76	.00277
%RSD	.49238	.35614	.38889	.66138	.35362
#1	.82785	.81761	213.74	115.92	.78483
#2	.82210	.82174	212.57	114.84	.78091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-e ms Acquired: 7/26/2017 19:00:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**130.64**	**4.0398**	**.33814**	**21.286**	**.96675**
Stddev	.34	.0088	.00001	.108	.00187
%RSD	.25723	.21863	.00170	.50886	.19392
#1	130.88	4.0460	.33814	21.363	.96542
#2	130.40	4.0335	.33813	21.209	.96807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76309**	**22.730**	**.22798**	**.35842**	**3.4580**
Stddev	.00332	.018	.00195	.00293	.0482
%RSD	.43454	.08094	.85352	.81839	1.3941
#1	.76544	22.743	.22661	.36049	3.4239
#2	.76075	22.717	.22936	.35634	3.4921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51030**	**1.3703**	**2.4859**	**.38755**	**.80237**
Stddev	.00126	.0059	.0040	.00166	.00540
%RSD	.24604	.43263	.15931	.42798	.67241
#1	.50941	1.3745	2.4887	.38638	.80618
#2	.51118	1.3661	2.4831	.38872	.79855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-e ms Acquired: 7/26/2017 19:00:45 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0700
Stddev	.0062
%RSD	.58079
#1	1.0744
#2	1.0656
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2792.6	2474.7	17088.	3513.8
Stddev	1.4	.5	97.	8.5
%RSD	.04995	.01864	.56714	.24214
#1	2791.6	2475.0	17019.	3507.7
#2	2793.6	2474.3	17156.	3519.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.894%	102.68%	99.171%	110.32%
Range				

Sample Name: 480-121506-c-21-f ms Acquired: 7/26/2017 19:04:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08909	185.35	.40521	.68675	1.1384
Stddev	.00177	1.38	.00267	.00003	.0051
%RSD	1.9879	.74205	.65775	.00463	.44630
#1	.09034	186.33	.40709	.68677	1.1420
#2	.08784	184.38	.40332	.68673	1.1348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.36847	F 965.68	.38916	.3653	.45011
Stddev	.00222	5.41	.00072	.0524	.00006
%RSD	.60381	.55972	.18618	14.34	.01225
#1	.37004	969.50	.38967	.3283	.45015
#2	.36690	961.86	.38864	.4024	.45007
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.68397	.63807	146.17	80.702	.68359
Stddev	.00146	.00397	.37	.405	.00805
%RSD	.21410	.62161	.25055	.50145	1.1780
#1	.68501	.64087	146.43	80.988	.68929
#2	.68294	.63526	145.91	80.416	.67790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-f ms Acquired: 7/26/2017 19:04:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**213.23**	**3.6687**	**.34663**	**21.913**	**.74807**
Stddev	.61	.0156	.00029	.160	.00120
%RSD	.28469	.42456	.08394	.73157	.15986
#1	213.66	3.6798	.34684	22.027	.74892
#2	212.80	3.6577	.34643	21.800	.74723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.57864**	**24.490**	**.29387**	**.37148**	**4.9361**
Stddev	.00490	.031	.00245	.00059	.0288
%RSD	.84688	.12577	.83538	.15835	.58280
#1	.58211	24.511	.29560	.37190	4.9564
#2	.57518	24.468	.29213	.37106	4.9157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50005**	**1.6279**	**1.7830**	**.38306**	**.66039**
Stddev	.00175	.0101	.0064	.00149	.00225
%RSD	.34899	.62230	.36140	.38807	.34096
#1	.50128	1.6351	1.7876	.38201	.66198
#2	.49881	1.6208	1.7784	.38411	.65879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-21-f ms Acquired: 7/26/2017 19:04:09 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.78093
Stddev	.00088
%RSD	.11322
#1	.78156
#2	.78031
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2611.2	2289.6	16054.	3351.5
Stddev	.7	.4	1.	9.6
%RSD	.02531	.01650	.00531	.28787
#1	2610.7	2289.4	16055.	3344.7
#2	2611.7	2289.9	16054.	3358.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.029%	95.000%	93.174%	105.23%
Range				

Sample Name: 480-121506-c-22-b Acquired: 7/26/2017 19:07:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00132**	**161.89**	**.05395**	**.23458**	**.85522**
Stddev	.00053	.48	.00122	.00007	.00103
%RSD	40.115	.29509	2.2600	.02876	.12066
#1	-.00170	162.23	.05308	.23453	.85595
#2	-.00095	161.56	.05481	.23463	.85450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00650**	**219.36**	**.00421**	**.2848**	**.08599**
Stddev	.00008	.30	.00003	.0197	.00002
%RSD	1.2457	.13749	.68661	6.917	.02134
#1	.00644	219.14	.00423	.2709	.08600
#2	.00655	219.57	.00419	.2988	.08598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77469**	**.69105**	**189.35**	**45.925**	**.37215**
Stddev	.00701	.00340	.18	.093	.00077
%RSD	.90523	.49177	.09515	.20227	.20730
#1	.77964	.69346	189.48	45.991	.37270
#2	.76973	.68865	189.22	45.860	.37161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-22-b Acquired: 7/26/2017 19:07:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.205**	**3.7773**	**.00830**	**.89379**	**1.0616**
Stddev	.494	.0201	.00004	.00538	.0014
%RSD	.58689	.53291	.45882	.60139	.13322
#1	84.555	3.7915	.00833	.89759	1.0606
#2	83.856	3.7630	.00827	.88999	1.0626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48833**	**6.0824**	**.00206**	**.00640**	**6.5573**
Stddev	.00356	.0116	.00241	.00269	.0007
%RSD	.72988	.19138	116.95	42.019	.01009
#1	.49085	6.0907	.00376	.00450	6.5569
#2	.48581	6.0742	.00036	.00830	6.5578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10339**	**.75760**	**.76494**	**-.00083**	**.27979**
Stddev	.00006	.00330	.00002	.00149	.00146
%RSD	.05891	.43548	.00278	179.01	.52311
#1	.10334	.75994	.76493	-.00189	.28083
#2	.10343	.75527	.76496	.00022	.27876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-22-b Acquired: 7/26/2017 19:07:32 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.99618
Stddev	.00877
%RSD	.88073
#1	1.0024
#2	.98998
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2983.7	2502.9	17442.	3480.7
Stddev	3.3	2.0	71.	9.1
%RSD	.11222	.08136	.40933	.26151
#1	2981.3	2501.4	17392.	3487.1
#2	2986.1	2504.3	17493.	3474.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.019%	103.85%	101.23%	109.29%
Range				

Sample Name: 480-121506-c-23-b Acquired: 7/26/2017 19:10:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**139.69**	**.03895**	**.16264**	**.92597**
Stddev	.00042	.82	.00036	.00034	.00819
%RSD	25.923	.58379	.92206	.20741	.88489
#1	-.00192	140.27	.03920	.16288	.93176
#2	-.00132	139.12	.03869	.16240	.92018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00515**	**88.179**	**.00200**	**.3307**	**.06132**
Stddev	.00009	.892	.00012	.0322	.00045
%RSD	1.6602	1.0119	5.8789	9.724	.72737
#1	.00521	88.810	.00192	.3079	.06163
#2	.00509	87.548	.00208	.3534	.06100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41149**	**.32356**	**150.12**	**32.104**	**.29188**
Stddev	.00025	.00188	2.12	.362	.00287
%RSD	.06091	.57988	1.4104	1.1289	.98379
#1	.41131	.32223	151.61	32.360	.29391
#2	.41166	.32489	148.62	31.848	.28985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-23-b Acquired: 7/26/2017 19:10:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.126**	**2.7076**	**.00560**	**.63715**	**.51335**
Stddev	.087	.0037	.00020	.01917	.00157
%RSD	.15150	.13782	3.5187	3.0084	.30513
#1	57.065	2.7049	.00546	.65070	.51446
#2	57.187	2.7102	.00574	.62359	.51224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16138**	**4.4781**	**-.00133**	**.00620**	**5.5565**
Stddev	.00025	.0037	.00148	.00203	.0546
%RSD	.15707	.08325	111.60	32.696	.98184
#1	.16156	4.4807	-.00237	.00477	5.5951
#2	.16120	4.4755	-.00028	.00764	5.5179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07910**	**.41156**	**.93720**	**.00035**	**.24463**
Stddev	.00025	.00182	.00797	.00004	.00128
%RSD	.32134	.44148	.85052	10.757	.52324
#1	.07892	.41285	.94283	.00038	.24372
#2	.07928	.41028	.93156	.00033	.24553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-23-b Acquired: 7/26/2017 19:10:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.50285**
Stddev	.00445
%RSD	.88397
#1	.49970
#2	.50599
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3142.2**	**2574.4**	**18020.**	**3553.0**
Stddev	1.4	.1	29.	44.5
%RSD	.04548	.00389	.16033	1.2531
#1	3141.2	2574.5	18041.	3521.5
#2	3143.2	2574.4	18000.	3584.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.269%	106.82%	104.58%	111.56%
Range				

Sample Name: 480-121506-a-26-a Acquired: 7/26/2017 19:14:16 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**94.409**	**.04391**	**.20034**	**.65975**
Stddev	.00030	.475	.00260	.00024	.00520
%RSD	84.506	.50354	5.9287	.11971	.78793
#1	.00057	94.073	.04207	.20051	.66342
#2	.00014	94.745	.04575	.20017	.65607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00357**	F **1179.6**	**.04584**	**.2926**	**.05457**
Stddev	.00001	3.1	.00020	.0268	.00020
%RSD	.32586	.26343	.43321	9.146	.37228
#1	.00356	1181.8	.04598	.3115	.05443
#2	.00358	1177.4	.04570	.2736	.05472
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76900**	**.70930**	**102.47**	**33.823**	**.32119**
Stddev	.00264	.00132	1.00	.067	.00126
%RSD	.34371	.18664	.97218	.19940	.39364
#1	.76713	.70837	101.77	33.776	.32030
#2	.77087	.71024	103.18	33.871	.32208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-a-26-a Acquired: 7/26/2017 19:14:16 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**428.25**	**2.3584**	**.00866**	**1.5596**	**.66437**
Stddev	1.09	.0049	.00009	.0174	.00060
%RSD	.25385	.20876	1.0107	1.1144	.09025
#1	427.48	2.3549	.00872	1.5473	.66395
#2	429.01	2.3619	.00860	1.5718	.66480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40002**	**5.2578**	**.00142**	**.00061**	**5.4044**
Stddev	.00124	.0015	.00029	.00431	.0103
%RSD	.30921	.02886	20.212	706.57	.19141
#1	.39915	5.2567	.00162	-.00244	5.3971
#2	.40090	5.2588	.00121	.00366	5.4117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14504**	**2.9371**	**1.0668**	**-.00306**	**.17577**
Stddev	.00137	.0097	.0112	.00221	.00036
%RSD	.94269	.32951	1.0474	72.172	.20327
#1	.14407	2.9302	1.0589	-.00150	.17552
#2	.14600	2.9439	1.0747	-.00463	.17602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-a-26-a Acquired: 7/26/2017 19:14:16 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.56908
Stddev	.00215
%RSD	.37814
#1	.56755
#2	.57060
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2553.1	2237.7	15910.	3308.7
Stddev	3.0	3.5	26.	22.0
%RSD	.11834	.15561	.16472	.66566
#1	2555.2	2240.2	15928.	3324.2
#2	2551.0	2235.3	15891.	3293.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.470%	92.847%	92.335%	103.88%
Range				

Sample Name: 480-121506-c-27-b Acquired: 7/26/2017 19:17:43 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**172.57**	**.06057**	**.25337**	**.82720**
Stddev	.00033	.40	.00090	.00065	.00153
%RSD	74.210	.22992	1.4804	.25662	.18479
#1	-.00067	172.29	.06120	.25291	.82828
#2	-.00021	172.85	.05993	.25383	.82611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00673**	**133.99**	**.00336**	**.2735**	**.08055**
Stddev	.00013	.03	.00007	.0125	.00020
%RSD	1.9532	.02002	2.1332	4.576	.25213
#1	.00682	133.97	.00341	.2647	.08040
#2	.00663	134.01	.00331	.2824	.08069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.60418**	**.57550**	**185.62**	**50.214**	**.38246**
Stddev	.00143	.00200	.02	.025	.00227
%RSD	.23743	.34687	.01323	.05062	.59318
#1	.60519	.57409	185.63	50.196	.38086
#2	.60316	.57691	185.60	50.232	.38407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-27-b Acquired: 7/26/2017 19:17:43 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.573**	**3.4479**	**.00696**	**.90796**	**.85077**
Stddev	.441	.0148	.00008	.00937	.00015
%RSD	.52166	.42857	1.1388	1.0316	.01750
#1	84.261	3.4374	.00701	.91458	.85066
#2	84.885	3.4583	.00690	.90134	.85087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40524**	**5.2155**	**-.00181**	**.00950**	**5.6414**
Stddev	.00072	.0034	.00152	.00085	.0317
%RSD	.17701	.06472	83.751	8.9487	.56120
#1	.40473	5.2131	-.00288	.00889	5.6191
#2	.40575	5.2179	-.00074	.01010	5.6638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09981**	**.60182**	**.71670**	**-.00071**	**.28905**
Stddev	.00163	.00192	.00147	.00039	.00098
%RSD	1.6291	.31986	.20503	54.754	.33880
#1	.09866	.60046	.71566	-.00044	.28836
#2	.10096	.60318	.71774	-.00099	.28975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-27-b Acquired: 7/26/2017 19:17:43 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.93605
Stddev	.00805
%RSD	.86002
#1	.93035
#2	.94174
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3046.9	2553.0	17875.	3535.7
Stddev	1.9	1.1	28.	1.5
%RSD	.06244	.04294	.15525	.04165
#1	3045.6	2553.7	17894.	3534.7
#2	3048.3	2552.2	17855.	3536.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.714%	105.93%	103.74%	111.01%
Range				

Sample Name: BLANK Acquired: 7/26/2017 19:21:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.03900**	**.00111**	**.00149**	**.00010**
Stddev	.00069	.00422	.00066	.00059	.00001
%RSD	151.01	10.811	59.980	39.556	7.5857
#1	.00003	.04198	.00064	.00107	.00009
#2	-.00094	.03602	.00158	.00191	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.05493**	**-.00002**	**-.0392**	**-.00018**
Stddev	.00005	.00171	.00002	.0334	.00004
%RSD	354.19	3.1155	74.212	85.24	20.565
#1	.00004	.05614	-.00004	-.0628	-.00015
#2	-.00002	.05372	-.00001	-.0156	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00054**	**.01854**	**.04991**	**.00241**
Stddev	.00044	.00039	.00040	.02695	.00110
%RSD	127.70	72.539	2.1636	53.990	45.723
#1	.00065	-.00082	.01882	.03086	.00163
#2	.00003	-.00026	.01825	.06896	.00319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 19:21:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01986**	**.00025**	**-.00013**	**.01066**	**-.00004**
Stddev	.00405	.00003	.00018	.00125	.00023
%RSD	20.391	12.192	140.20	11.729	516.18
#1	.01699	.00022	-.00000	.01154	-.00021
#2	.02272	.00027	-.00026	.00977	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00397**	**.00168**	**.00059**	**.00218**
Stddev	.00011	.00220	.00038	.00022	.01113
%RSD	38.704	55.315	22.456	37.070	510.26
#1	.00037	.00242	.00194	.00074	.01005
#2	.00021	.00552	.00141	.00043	-.00569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00015**	**.00012**	**.00119**	**-.00031**
Stddev	.00018	.00003	.00028	.00109	.00017
%RSD	129.71	22.064	227.39	91.602	54.277
#1	.00001	.00012	.00032	.00195	-.00044
#2	.00026	.00017	-.00008	.00042	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 19:21:05 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00010**
Stddev	.00028
%RSD	274.60
#1	.00030
#2	-.00010
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3706.1**	**2381.2**	**17076.**	**3101.9**
Stddev	3.2	3.8	21.	1.2
%RSD	.08634	.15786	.12016	.03943
#1	3708.3	2383.9	17061.	3102.8
#2	3703.8	2378.6	17090.	3101.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.392%	98.802%	99.102%	97.394%
Range				

Sample Name: mb 480-368566/1-a Acquired: 7/26/2017 19:24:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.03040**	**.00001**	**.00310**	**.00020**
Stddev	.00113	.00568	.00004	.00019	.00003
%RSD	81.506	18.688	398.87	6.2038	16.537
#1	-.00219	.03442	-.00002	.00297	.00022
#2	-.00059	.02639	.00004	.00324	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.06382**	**.00014**	**-.0230**	**-.00019**
Stddev	.00008	.00458	.00002	.0343	.00002
%RSD	170.02	7.1821	10.758	149.3	11.855
#1	-.00011	.06058	.00015	-.0473	-.00018
#2	.00001	.06706	.00013	.0013	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00025**	**.01748**	**.13110**	**-.00064**
Stddev	.00055	.00012	.00141	.00380	.00081
%RSD	73.636	48.421	8.0752	2.8978	125.99
#1	.00114	.00034	.01848	.13379	-.00122
#2	.00036	.00017	.01648	.12842	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368566/1-a Acquired: 7/26/2017 19:24:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01231**	**.00061**	**-.00003**	**.06452**	**.00053**
Stddev	.00238	.00002	.00015	.01416	.00012
%RSD	19.369	3.9119	532.65	21.943	22.069
#1	.01400	.00063	-.00014	.07454	.00061
#2	.01062	.00059	.00008	.05451	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.02771**	**.00027**	**-.00033**	**.25871**
Stddev	.00107	.00144	.00130	.00083	.01089
%RSD	287.22	5.1834	481.20	249.04	4.2090
#1	.00113	.02670	.00119	-.00091	.26641
#2	-.00038	.02873	-.00065	.00025	.25102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04835**	**.00026**	**.00086**	**.00013**	**.00024**
Stddev	.00017	.00009	.00006	.00022	.00064
%RSD	.35984	34.639	7.4631	171.26	270.83
#1	.04822	.00033	.00081	.00029	-.00022
#2	.04847	.00020	.00090	-.00003	.00069
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368566/1-a Acquired: 7/26/2017 19:24:33 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00127
Stddev	.00018
%RSD	14.158
#1	.00114
#2	.00140
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3766.5	2406.3	17327.	3178.0
Stddev	4.2	3.3	34.	8.9
%RSD	.11277	.13609	.19422	.28151
#1	3763.5	2404.0	17351.	3184.3
#2	3769.5	2408.6	17303.	3171.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.01%	99.841%	100.56%	99.782%
Range				

Sample Name: lcssrm 480-368566/2- Acquired: 7/26/2017 19:28:01 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51287**	**95.325**	**1.9212**	**.69283**	**3.8426**
Stddev	.00191	.962	.0030	.00005	.0408
%RSD	.37312	1.0092	.15502	.00707	1.0611
#1	.51152	96.005	1.9191	.69287	3.8714
#2	.51423	94.644	1.9233	.69280	3.8138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0058**	**54.174**	**1.0955**	**1.573**	**2.0807**
Stddev	.0110	.538	.0001	.055	.0004
%RSD	1.0882	.99402	.01361	3.520	.02155
#1	1.0135	54.555	1.0954	1.612	2.0810
#2	.99804	53.793	1.0956	1.534	2.0804
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.69429**	**.78797**	**150.04**	**30.434**	**.07758**
Stddev	.00087	.00152	1.67	.397	.00148
%RSD	.12592	.19267	1.1126	1.3054	1.9127
#1	.69367	.78904	151.22	30.715	.07863
#2	.69491	.78690	148.85	30.154	.07653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: lcssrm 480-368566/2- Acquired: 7/26/2017 19:28:01 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.319**	**4.3448**	**.56926**	**6.1479**	**1.9156**
Stddev	.030	.0004	.00003	.0676	.0006
%RSD	.10287	.00964	.00526	1.1002	.02920
#1	29.298	4.3445	.56928	6.1957	1.9160
#2	29.341	4.3451	.56924	6.1001	1.9152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.83815**	**1.3669**	**.70570**	**.95766**	**3.5677**
Stddev	.00402	.0006	.00168	.00308	.1158
%RSD	.47989	.04769	.23804	.32119	3.2462
#1	.84099	1.3665	.70689	.95549	3.6496
#2	.83530	1.3674	.70451	.95984	3.4858
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0054**	**1.3838**	**4.2442**	**1.5072**	**1.4081**
Stddev	.0014	.0127	.0132	.0014	.0047
%RSD	.14345	.91586	.31093	.09197	.33388
#1	1.0064	1.3928	4.2349	1.5062	1.4048
#2	1.0044	1.3749	4.2536	1.5082	1.4115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcssrm 480-368566/2- Acquired: 7/26/2017 19:28:01 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.9357**
Stddev	.0042
%RSD	.14407
#1	2.9327
#2	2.9387
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3199.7**	**2714.4**	**19120.**	**3658.5**
Stddev	.2	.1	38.	44.6
%RSD	.00612	.00476	.20033	1.2190
#1	3199.9	2714.4	19093.	3627.0
#2	3199.6	2714.3	19147.	3690.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.812%	112.62%	110.97%	114.87%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 19:31:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49614**	**25.042**	**.49318**	**.51312**	**.50906**
Stddev	.00247	.024	.00429	.00080	.00045
%RSD	.49796	.09604	.86947	.15675	.08812
#1	.49440	25.025	.49015	.51369	.50874
#2	.49789	25.059	.49621	.51255	.50938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50986**	**24.767**	**.50894**	**-.0383**	**.49715**
Stddev	.00012	.016	.00015	.0137	.00063
%RSD	.02361	.06305	.02921	35.91	.12706
#1	.50978	24.755	.50884	-.0286	.49671
#2	.50995	24.778	.50905	-.0480	.49760
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50679**	**.52871**	**24.145**	**26.090**	**.51529**
Stddev	.00073	.00110	.060	.053	.00041
%RSD	.14312	.20818	.24698	.20453	.07939
#1	.50730	.52948	24.103	26.127	.51558
#2	.50627	.52793	24.187	26.052	.51500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 19:31:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.473**	**.52483**	**.50187**	**25.483**	**.50613**
Stddev	.044	.00051	.00114	.024	.00033
%RSD	.17154	.09683	.22803	.09376	.06579
#1	25.442	.52447	.50106	25.500	.50589
#2	25.504	.52519	.50268	25.467	.50636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49765**	**25.120**	**.51005**	**.49774**	**24.026**
Stddev	.00016	.049	.00209	.00285	.013
%RSD	.03193	.19564	.40911	.57221	.05375
#1	.49776	25.085	.51152	.49573	24.035
#2	.49753	25.155	.50857	.49975	24.017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50840**	**.49604**	**.50239**	**.50203**	**.50536**
Stddev	.00112	.00002	.00221	.00295	.00004
%RSD	.21932	.00383	.43969	.58701	.00792
#1	.50761	.49602	.50083	.49994	.50538
#2	.50919	.49605	.50395	.50411	.50533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 19:31:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50619
Stddev	.00095
%RSD	.18780
#1	.50686
#2	.50552
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3368.0	2348.9	16510.	3125.5
Stddev	2.6	1.3	28.	10.1
%RSD	.07864	.05568	.16834	.32275
#1	3366.1	2348.0	16530.	3118.4
#2	3369.8	2349.8	16491.	3132.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 19:34:30 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.00968**	**.00043**	**.00193**	**.00015**
Stddev	.00138	.00251	.00084	.00008	.00000
%RSD	146.67	25.900	195.21	4.3781	2.5270
#1	.00004	.01146	.00102	.00199	.00015
#2	-.00192	.00791	-.00016	.00187	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.01355**	**-.00003**	**-.0021**	**-.00006**
Stddev	.00002	.00278	.00016	.0159	.00001
%RSD	626.68	20.492	499.25	749.5	23.249
#1	-.00002	.01552	-.00015	.0091	-.00007
#2	.00001	.01159	.00008	-.0134	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00015**	**.00767**	**.10176**	**.00016**
Stddev	.00029	.00065	.00222	.04696	.00040
%RSD	103.42	429.71	28.965	46.143	243.06
#1	.00008	-.00031	.00925	.13497	-.00012
#2	.00048	.00061	.00610	.06856	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 19:34:30 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.00017**	**.00011**	**.01066**	**-.00021**
Stddev	.00654	.00004	.00003	.00907	.00011
%RSD	114.68	23.435	29.297	85.107	53.598
#1	.01033	.00020	.00009	.00424	-.00028
#2	.00108	.00014	.00014	.01707	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**.00044**	**.00113**	**.00275**	**.00704**
Stddev	.00061	.00057	.00098	.00050	.00130
%RSD	56.495	131.44	86.593	18.355	18.496
#1	.00065	.00084	.00182	.00310	.00796
#2	.00152	.00003	.00044	.00239	.00612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00000**	**.00007**	**.00154**	**.00036**
Stddev	.00018	.00007	.00013	.00072	.00025
%RSD	132.16	2920.4	181.22	46.738	69.041
#1	-.00001	-.00005	.00017	.00205	.00053
#2	-.00026	.00005	-.00002	.00103	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 19:34:30 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00025
Stddev	.00041
%RSD	161.77
#1	.00054
#2	-.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3710.6	2387.6	16919.	3075.6
Stddev	2.2	4.4	40.	10.8
%RSD	.05943	.18271	.23575	.35265
#1	3709.1	2384.5	16890.	3068.0
#2	3712.2	2390.7	16947.	3083.3

Sample Name: CCVL-4147888 Acquired: 7/26/2017 19:37:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**.20331**	**.01497**	**.02180**	**.00225**
Stddev	.00000	.00980	.00037	.00001	.00001
%RSD	.05403	4.8185	2.4835	.05017	.32254
#1	.00588	.19638	.01470	.02181	.00225
#2	.00588	.21024	.01523	.02179	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.51188**	**.00203**	**-.0184**	**.00392**
Stddev	.00011	.00227	.00007	.0084	.00003
%RSD	5.2133	.44438	3.3909	45.76	.78693
#1	.00206	.51349	.00198	-.0124	.00394
#2	.00221	.51028	.00208	-.0243	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00441**	**.01056**	**.05739**	**.60579**	**.03212**
Stddev	.00030	.00114	.00137	.05816	.00026
%RSD	6.7310	10.816	2.3949	9.5998	.82113
#1	.00462	.01137	.05642	.56467	.03231
#2	.00420	.00976	.05836	.64692	.03193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 19:37:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21916**	**.00326**	**.01002**	**1.0361**	**.00974**
Stddev	.00154	.00005	.00022	.0140	.00067
%RSD	.70265	1.5686	2.2055	1.3465	6.8904
#1	.22025	.00329	.00986	1.0459	.01022
#2	.21807	.00322	.01018	1.0262	.00927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00990**	**.19678**	**.02188**	**.02682**	**.51830**
Stddev	.00124	.00182	.00090	.00296	.01395
%RSD	12.499	.92439	4.1100	11.027	2.6913
#1	.00903	.19549	.02125	.02891	.52816
#2	.01078	.19806	.02252	.02473	.50844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00864**	**.00506**	**.00530**	**.02087**	**.00507**
Stddev	.00004	.00004	.00028	.00048	.00034
%RSD	.51177	.84170	5.2250	2.2933	6.6198
#1	.00867	.00503	.00510	.02054	.00531
#2	.00861	.00509	.00549	.02121	.00483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 19:37:59 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01054
Stddev	.00040
%RSD	3.8205
#1	.01082
#2	.01025
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3712.3	2396.7	17042.	3119.8
Stddev	.4	2.0	59.	10.6
%RSD	.01193	.08141	.34684	.33823
#1	3712.0	2398.1	17084.	3112.3
#2	3712.6	2395.3	17001.	3127.3

Sample Name: 480-121501-c-1-a Acquired: 7/26/2017 19:41:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00226**	**52.600**	**.02776**	**.06432**	**.22414**
Stddev	.00100	.057	.00060	.00035	.00046
%RSD	44.165	.10802	2.1543	.54861	.20364
#1	-.00155	52.640	.02733	.06457	.22381
#2	-.00296	52.559	.02818	.06407	.22446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**394.15**	**.00087**	**.3130**	**.03043**
Stddev	.00010	3.39	.00020	.0167	.00034
%RSD	4.9472	.85912	22.390	5.337	1.1110
#1	.00202	396.54	.00074	.3012	.03066
#2	.00217	391.75	.00101	.3248	.03019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06712**	**.06936**	**84.590**	**11.544**	**.06614**
Stddev	.00001	.00038	.370	.040	.00157
%RSD	.02080	.55062	.43760	.34715	2.3808
#1	.06711	.06909	84.852	11.515	.06503
#2	.06713	.06963	84.329	11.572	.06726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-1-a Acquired: 7/26/2017 19:41:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**117.89**	**2.2066**	**.00227**	**1.4648**	**.07616**
Stddev	.50	.0089	.00008	.0041	.00028
%RSD	.42124	.40553	3.3962	.28098	.37153
#1	117.54	2.2002	.00233	1.4677	.07636
#2	118.24	2.2129	.00222	1.4618	.07596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04754**	**1.4552**	**-.00087**	**-.00101**	**5.2066**
Stddev	.00100	.0062	.00064	.00226	.0985
%RSD	2.1011	.42473	73.077	222.88	1.8912
#1	.04684	1.4508	-.00132	.00058	5.2763
#2	.04825	1.4596	-.00042	-.00261	5.1370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05584**	**.49971**	**1.6834**	**-.00388**	**.13288**
Stddev	.00072	.00025	.0000	.00098	.00084
%RSD	1.2926	.05065	.00003	25.340	.62976
#1	.05533	.49989	1.6834	-.00319	.13229
#2	.05635	.49953	1.6834	-.00458	.13347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-1-a Acquired: 7/26/2017 19:41:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.26279
Stddev	.00138
%RSD	.52574
#1	.26182
#2	.26377
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2940.5	2382.6	16933.	3364.5
Stddev	2.1	3.8	91.	36.8
%RSD	.07245	.16152	.53838	1.0948
#1	2942.0	2385.3	16997.	3338.4
#2	2939.0	2379.9	16868.	3390.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.860%	98.858%	98.272%	105.64%
Range				

Sample Name: 480-121501-c-2-a Acquired: 7/26/2017 19:44:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**79.650**	**.05685**	**.09305**	**.52105**
Stddev	.00003	.050	.00153	.00049	.00084
%RSD	40.066	.06324	2.6892	.52250	.16040
#1	-.00006	79.685	.05793	.09340	.52045
#2	-.00011	79.614	.05577	.09271	.52164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00349**	**215.47**	**.01217**	**.2918**	**.06227**
Stddev	.00012	.31	.00013	.0055	.00009
%RSD	3.3088	.14569	1.0520	1.889	.14062
#1	.00357	215.25	.01207	.2879	.06221
#2	.00341	215.69	.01226	.2957	.06233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.29645**	**.36884**	**329.25**	**20.798**	**.10302**
Stddev	.00012	.00210	.20	.032	.00125
%RSD	.03957	.57026	.06018	.15509	1.2175
#1	.29653	.37032	329.11	20.821	.10213
#2	.29637	.36735	329.39	20.776	.10391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-2-a Acquired: 7/26/2017 19:44:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.965**	**2.7471**	**.00842**	**1.4124**	**.23619**
Stddev	.068	.0058	.00002	.0018	.00005
%RSD	.08671	.21118	.27018	.12633	.02012
#1	78.916	2.7430	.00840	1.4111	.23616
#2	79.013	2.7512	.00843	1.4136	.23623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30485**	**2.4701**	**.00120**	**-.00173**	**6.4821**
Stddev	.00119	.0076	.00206	.00448	.0065
%RSD	.39068	.30671	172.48	259.22	.10092
#1	.30569	2.4754	.00266	-.00490	6.4774
#2	.30400	2.4647	-.00026	.00144	6.4867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15677**	**.35369**	**1.6361**	**-.00309**	**.17991**
Stddev	.00031	.00023	.0065	.00040	.00062
%RSD	.20029	.06410	.39771	13.012	.34255
#1	.15699	.35353	1.6315	-.00280	.18035
#2	.15655	.35385	1.6407	-.00337	.17948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-2-a Acquired: 7/26/2017 19:44:56 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.5000**
Stddev	.0025
%RSD	.16731
#1	1.4982
#2	1.5017
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2984.0**	**2393.1**	**17117.**	**3312.2**
Stddev	.3	.8	59.	8.2
%RSD	.01036	.03344	.34620	.24805
#1	2984.2	2393.7	17075.	3318.0
#2	2983.8	2392.5	17159.	3306.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.026%	99.294%	99.341%	103.99%
Range				

Sample Name: 480-121501-c-3-a Acquired: 7/26/2017 19:48:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00835**	**48.664**	**.02448**	**.06736**	**3.9972**
Stddev	.00044	.090	.00191	.00002	.0229
%RSD	5.2830	.18576	7.7942	.02712	.57328
#1	.00866	48.600	.02313	.06735	3.9810
#2	.00804	48.728	.02583	.06738	4.0134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**340.95**	**.00713**	**.2977**	**.03321**
Stddev	.00002	4.88	.00005	.0128	.00026
%RSD	.74129	1.4323	.67627	4.313	.78832
#1	.00207	337.49	.00716	.2886	.03340
#2	.00205	344.40	.00709	.3068	.03302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14919**	**.17189**	**89.900**	**10.490**	**.06169**
Stddev	.00025	.00085	.331	.071	.00109
%RSD	.16433	.49338	.36833	.67567	1.7707
#1	.14901	.17129	89.666	10.440	.06247
#2	.14936	.17249	90.134	10.540	.06092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-a Acquired: 7/26/2017 19:48:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**120.17**	**2.2925**	**.00954**	**1.1844**	**.17931**
Stddev	.18	.0068	.00009	.0138	.00083
%RSD	.15057	.29566	.96753	1.1671	.46186
#1	120.04	2.2877	.00947	1.1746	.17989
#2	120.29	2.2973	.00960	1.1942	.17872
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.66774**	**2.3954**	**.00612**	**.00248**	**4.0964**
Stddev	.00086	.0036	.00099	.00056	.0161
%RSD	.12847	.15194	16.153	22.694	.39371
#1	.66834	2.3980	.00542	.00208	4.0850
#2	.66713	2.3929	.00682	.00288	4.1078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10396**	**.50329**	**1.4872**	**-.00072**	**.12733**
Stddev	.00103	.00255	.0016	.00065	.00035
%RSD	.99360	.50624	.10869	90.604	.27786
#1	.10323	.50149	1.4861	-.00026	.12708
#2	.10469	.50509	1.4884	-.00118	.12758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-a Acquired: 7/26/2017 19:48:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.74992
Stddev	.00104
%RSD	.13843
#1	.74918
#2	.75065
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2968.8	2403.6	17018.	3374.5
Stddev	8.5	6.6	26.	34.2
%RSD	.28564	.27251	.15380	1.0132
#1	2962.8	2398.9	17036.	3398.7
#2	2974.8	2408.2	16999.	3350.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.619%	99.728%	98.764%	105.95%
Range				

Sample Name: 480-121501-c-3-aSD@5 Acquired: 7/26/2017 19:51:48 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**10.341**	**.00599**	**.01592**	**.84288**
Stddev	.00038	.046	.00050	.00010	.00243
%RSD	39.429	.44118	8.4038	.65826	.28880
#1	.00123	10.373	.00563	.01600	.84461
#2	.00069	10.309	.00634	.01585	.84116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**75.309**	**.00175**	**.0135**	**.00650**
Stddev	.00003	.495	.00002	.0052	.00013
%RSD	6.8549	.65787	1.1554	38.19	1.9606
#1	.00038	75.659	.00174	.0099	.00641
#2	.00042	74.958	.00177	.0172	.00659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03275**	**.03465**	**19.905**	**2.2307**	**.01466**
Stddev	.00024	.00023	.061	.0503	.00110
%RSD	.71785	.66486	.30876	2.2532	7.4821
#1	.03258	.03449	19.948	2.2662	.01543
#2	.03291	.03481	19.861	2.1951	.01388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-aSD@5 Acquired: 7/26/2017 19:51:48 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.780**	**.50661**	**.00169**	**.25462**	**.03490**
Stddev	.039	.00035	.00002	.00158	.00003
%RSD	.15136	.06926	.98606	.62195	.07856
#1	25.752	.50686	.00168	.25574	.03488
#2	25.807	.50637	.00170	.25350	.03492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13305**	**.50427**	**.00034**	**.00153**	**.84378**
Stddev	.00129	.00010	.00043	.00306	.01134
%RSD	.96905	.02039	127.68	200.62	1.3445
#1	.13214	.50434	.00064	.00369	.85180
#2	.13397	.50419	.00003	-.00064	.83576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02018**	**.10894**	**.31978**	**-.00063**	**.02742**
Stddev	.00014	.00072	.00013	.00104	.00021
%RSD	.71306	.66365	.03957	165.77	.77681
#1	.02029	.10945	.31987	.00011	.02757
#2	.02008	.10843	.31969	-.00136	.02727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-aSD@5 Acquired: 7/26/2017 19:51:48 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.17175
Stddev	.00180
%RSD	1.0509
#1	.17302
#2	.17047
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3396.3	2380.6	16883.	3177.2
Stddev	7.0	8.7	85.	21.8
%RSD	.20626	.36670	.50066	.68503
#1	3401.2	2386.8	16824.	3161.8
#2	3391.3	2374.5	16943.	3192.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.083%	98.777%	97.984%	99.756%
Range				

Sample Name: 480-121501-c-3-a PDS Acquired: 7/26/2017 19:55:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09992**	**68.968**	**.38027**	**.42852**	**4.4922**
Stddev	.00058	.226	.00073	.00100	.0388
%RSD	.58335	.32716	.19318	.23272	.86255
#1	.10034	69.128	.38079	.42922	4.5196
#2	.09951	68.809	.37975	.42781	4.4648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37410**	**366.47**	**.38962**	**.2810**	**.43129**
Stddev	.00186	4.63	.00056	.0002	.00036
%RSD	.49638	1.2620	.14457	.0594	.08357
#1	.37541	369.74	.39002	.2808	.43104
#2	.37279	363.20	.38922	.2811	.43155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50646**	**.58976**	**109.96**	**30.486**	**.45998**
Stddev	.00383	.00152	.96	.289	.00067
%RSD	.75620	.25691	.87597	.94901	.14670
#1	.50375	.58869	110.64	30.691	.46045
#2	.50917	.59083	109.28	30.282	.45950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-a PDS Acquired: 7/26/2017 19:55:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**143.70**	**2.7586**	**.36201**	**20.316**	**.59043**
Stddev	.92	.0163	.00004	.031	.00024
%RSD	.63807	.58900	.01056	.15300	.04008
#1	143.05	2.7471	.36199	20.338	.59026
#2	144.34	2.7701	.36204	20.294	.59059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1064**	**2.4998**	**.38848**	**.36209**	**4.7668**
Stddev	.0003	.0048	.00103	.00600	.0045
%RSD	.02887	.19366	.26462	1.6558	.09450
#1	1.1062	2.4964	.38775	.35785	4.7700
#2	1.1067	2.5032	.38920	.36633	4.7637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11016**	**.89229**	**1.9231**	**.38350**	**.49985**
Stddev	.00025	.00047	.0026	.00125	.00374
%RSD	.22933	.05318	.13603	.32652	.74897
#1	.10998	.89196	1.9212	.38438	.49720
#2	.11033	.89263	1.9249	.38261	.50250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-a PDS Acquired: 7/26/2017 19:55:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1244**
Stddev	.0068
%RSD	.60098
#1	1.1196
#2	1.1291
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2880.4**	**2378.8**	**16901.**	**3371.8**
Stddev	4.3	6.3	69.	34.8
%RSD	.14956	.26362	.40727	1.0321
#1	2877.4	2374.4	16950.	3347.2
#2	2883.5	2383.2	16853.	3396.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.249%	98.700%	98.089%	105.87%
Range				

Sample Name: 480-121501-c-3-b ms Acquired: 7/26/2017 19:58:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07926**	**85.505**	**.33529**	**.41375**	**2.4450**
Stddev	.00116	1.097	.00300	.00041	.0325
%RSD	1.4621	1.2834	.89622	.09935	1.3289
#1	.07844	86.281	.33741	.41404	2.4680
#2	.08008	84.729	.33316	.41346	2.4220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33158**	**284.25**	**.60898**	**.2369**	**.37402**
Stddev	.00404	1.49	.00171	.0215	.00108
%RSD	1.2185	.52540	.28142	9.075	.28972
#1	.33444	285.30	.61019	.2217	.37478
#2	.32872	283.19	.60777	.2521	.37325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46384**	**.68315**	**91.880**	**36.164**	**.40403**
Stddev	.00145	.00005	.936	.513	.00580
%RSD	.31301	.00712	1.0190	1.4185	1.4353
#1	.46281	.68319	92.542	36.527	.40813
#2	.46486	.68312	91.218	35.801	.39993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-b ms Acquired: 7/26/2017 19:58:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**109.66**	**2.3170**	**.31900**	**18.547**	**.47929**
Stddev	.52	.0058	.00087	.206	.00039
%RSD	.47781	.25095	.27359	1.1115	.08155
#1	109.29	2.3129	.31962	18.693	.47956
#2	110.03	2.3211	.31839	18.401	.47901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.61348**	**18.557**	**.30453**	**.32466**	**7.8883**
Stddev	.00137	.019	.00134	.00115	.0784
%RSD	.22287	.10050	.44081	.35547	.99327
#1	.61444	18.570	.30548	.32548	7.9437
#2	.61251	18.544	.30358	.32384	7.8329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.42687**	**.72655**	**2.5523**	**.34128**	**.47734**
Stddev	.00005	.00723	.0009	.00247	.00022
%RSD	.01226	.99448	.03633	.72232	.04685
#1	.42684	.73165	2.5517	.34302	.47718
#2	.42691	.72144	2.5530	.33953	.47750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-b ms Acquired: 7/26/2017 19:58:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.93410**
Stddev	.00691
%RSD	.73984
#1	.92922
#2	.93899
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2961.5**	**2412.5**	**16931.**	**3379.3**
Stddev	4.0	4.7	41.	38.9
%RSD	.13381	.19563	.24046	1.1502
#1	2958.7	2409.1	16960.	3351.8
#2	2964.3	2415.8	16902.	3406.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.422%	100.10%	98.262%	106.10%
Range				

Sample Name: 480-121501-c-3-c msd Acquired: 7/26/2017 20:02:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08915	111.84	.38452	.47983	4.3155
Stddev	.00096	.26	.00083	.00200	.0008
%RSD	1.0739	.23452	.21479	.41751	.01765
#1	.08982	112.03	.38394	.48125	4.3150
#2	.08847	111.66	.38511	.47842	4.3160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.37204	364.10	.38816	.3020	.43929
Stddev	.00049	1.48	.00111	.0089	.00201
%RSD	.13244	.40601	.28679	2.942	.45861
#1	.37239	363.06	.38895	.3083	.44072
#2	.37169	365.15	.38737	.2957	.43787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.54391	.60721	120.40	46.315	.47029
Stddev	.00093	.00113	.18	.014	.00096
%RSD	.17138	.18586	.14783	.03068	.20473
#1	.54325	.60801	120.27	46.304	.47097
#2	.54457	.60641	120.52	46.325	.46961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-c msd Acquired: 7/26/2017 20:02:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**138.67**	**3.0156**	**.35918**	**21.346**	**.63042**
Stddev	.21	.0043	.00194	.023	.00231
%RSD	.15279	.14242	.54021	.10913	.36619
#1	138.82	3.0186	.36056	21.329	.63205
#2	138.52	3.0126	.35781	21.362	.62879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.68786**	**21.499**	**.33021**	**.35983**	**6.5674**
Stddev	.00443	.077	.00205	.00212	.0054
%RSD	.64358	.35929	.62080	.58936	.08244
#1	.69099	21.554	.33166	.36133	6.5712
#2	.68473	21.444	.32876	.35833	6.5636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50301**	**.92624**	**3.0422**	**.38868**	**.56589**
Stddev	.00316	.00267	.0103	.00310	.00136
%RSD	.62794	.28794	.33684	.79656	.24048
#1	.50525	.92813	3.0495	.39087	.56685
#2	.50078	.92435	3.0350	.38650	.56493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-3-c msd Acquired: 7/26/2017 20:02:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.2369
Stddev	.0047
%RSD	.38221
#1	1.2403
#2	1.2336
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2877.2	2422.7	17137.	3411.1
Stddev	14.0	9.1	9.	5.3
%RSD	.48503	.37485	.05387	.15622
#1	2867.4	2416.3	17143.	3414.9
#2	2887.1	2429.2	17130.	3407.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.163%	100.52%	99.456%	107.10%
Range				

Sample Name: 480-121501-c-4-a Acquired: 7/26/2017 20:05:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00230**	**29.381**	**.02601**	**.05264**	**.11776**
Stddev	.00077	.099	.00013	.00016	.00060
%RSD	33.418	.33837	.51776	.31277	.51011
#1	-.00176	29.451	.02591	.05275	.11734
#2	-.00284	29.311	.02610	.05252	.11819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**358.43**	**.00134**	**.2523**	**.02723**
Stddev	.00005	.24	.00008	.0331	.00005
%RSD	3.7130	.06823	6.3109	13.11	.20051
#1	.00126	358.61	.00140	.2289	.02727
#2	.00133	358.26	.00128	.2756	.02719
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04832**	**.06380**	**65.422**	**8.4332**	**.03820**
Stddev	.00004	.00028	.297	.0567	.00067
%RSD	.07326	.44617	.45471	.67241	1.7485
#1	.04829	.06400	65.632	8.4733	.03867
#2	.04834	.06360	65.212	8.3931	.03773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-4-a Acquired: 7/26/2017 20:05:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**144.01**	**2.5794**	**.00212**	**1.2528**	**.05923**
Stddev	.56	.0098	.00013	.0080	.00054
%RSD	.38738	.37818	5.9992	.64284	.90974
#1	143.62	2.5725	.00203	1.2471	.05885
#2	144.41	2.5863	.00221	1.2585	.05961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04540**	**.80369**	**.00059**	**-.00253**	**3.2107**
Stddev	.00004	.00675	.00100	.00009	.0229
%RSD	.08984	.83949	169.80	3.5209	.71184
#1	.04537	.79892	.00130	-.00247	3.1946
#2	.04543	.80846	-.00012	-.00260	3.2269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05074**	**.36014**	**1.4751**	**-.00029**	**.10309**
Stddev	.00016	.00014	.0068	.00025	.00025
%RSD	.31141	.03809	.46254	86.059	.24714
#1	.05085	.36004	1.4703	-.00011	.10327
#2	.05063	.36024	1.4799	-.00047	.10291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-4-a Acquired: 7/26/2017 20:05:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.31955
Stddev	.00216
%RSD	.67547
#1	.31802
#2	.32108
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2981.7	2388.0	16868.	3315.9
Stddev	4.9	6.8	89.	14.0
%RSD	.16412	.28385	.52682	.42274
#1	2985.1	2392.7	16931.	3305.9
#2	2978.2	2383.2	16805.	3325.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.964%	99.080%	97.895%	104.11%
Range				

Sample Name: 480-121501-c-5-a Acquired: 7/26/2017 20:08:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00144**	**33.367**	**.03339**	**.05148**	**.17236**
Stddev	.00057	.073	.00024	.00015	.00025
%RSD	39.192	.21931	.72043	.29341	.14520
#1	-.00184	33.315	.03356	.05158	.17254
#2	-.00104	33.419	.03322	.05137	.17218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00147**	**334.90**	**.00148**	**.3136**	**.03024**
Stddev	.00011	1.57	.00020	.0144	.00010
%RSD	7.6445	.47021	13.593	4.599	.33004
#1	.00139	333.79	.00134	.3034	.03017
#2	.00155	336.02	.00163	.3238	.03031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05037**	**.05992**	**68.976**	**8.8707**	**.04032**
Stddev	.00007	.00096	.395	.0586	.00055
%RSD	.13167	1.6014	.57279	.66035	1.3543
#1	.05032	.05924	68.697	8.8293	.03994
#2	.05042	.06060	69.256	8.9122	.04071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-5-a Acquired: 7/26/2017 20:08:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**131.96**	**2.5555**	**.00280**	**1.2323**	**.06321**
Stddev	.07	.0028	.00020	.0039	.00025
%RSD	.05306	.11050	7.0962	.31997	.39474
#1	132.01	2.5575	.00294	1.2295	.06338
#2	131.92	2.5536	.00266	1.2351	.06303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04760**	**.66199**	**.00039**	**.00166**	**3.4558**
Stddev	.00215	.00217	.00010	.00050	.0251
%RSD	4.5082	.32742	26.200	30.391	.72526
#1	.04911	.66046	.00032	.00201	3.4735
#2	.04608	.66353	.00047	.00130	3.4380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05291**	**.35903**	**1.5640**	**-.00307**	**.10644**
Stddev	.00007	.00119	.0005	.00013	.00055
%RSD	.13134	.33117	.03313	4.3660	.51697
#1	.05286	.35818	1.5637	-.00317	.10606
#2	.05296	.35987	1.5644	-.00298	.10683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-5-a Acquired: 7/26/2017 20:08:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.32182
Stddev	.00009
%RSD	.02873
#1	.32176
#2	.32189
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2992.6	2421.4	17195.	3413.4
Stddev	8.2	3.3	44.	11.0
%RSD	.27314	.13833	.25657	.32234
#1	2986.8	2419.0	17226.	3421.2
#2	2998.4	2423.7	17163.	3405.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.256%	100.47%	99.790%	107.17%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:12:29 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49127**	**24.984**	**.49099**	**.51307**	**.51249**
Stddev	.00068	.004	.00135	.00020	.00074
%RSD	.13752	.01543	.27486	.03924	.14367
#1	.49079	24.981	.49004	.51292	.51197
#2	.49175	24.987	.49195	.51321	.51301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51392**	**24.826**	**.50950**	**-.0433**	**.49765**
Stddev	.00025	.031	.00136	.0390	.00018
%RSD	.04829	.12614	.26741	90.13	.03699
#1	.51409	24.848	.50853	-.0157	.49752
#2	.51374	24.803	.51046	-.0708	.49778
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49921**	**.53574**	**24.237**	**26.531**	**.52061**
Stddev	.00097	.00102	.099	.044	.00110
%RSD	.19379	.19025	.40730	.16545	.21212
#1	.49853	.53646	24.307	26.562	.52139
#2	.49990	.53502	24.168	26.500	.51983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:12:29 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.535**	**.52664**	**.49962**	**25.796**	**.50583**
Stddev	.019	.00078	.00082	.078	.00055
%RSD	.07567	.14749	.16328	.30425	.10805
#1	25.522	.52610	.49905	25.851	.50621
#2	25.549	.52719	.50020	25.740	.50544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49487**	**25.133**	**.50850**	**.49583**	**24.051**
Stddev	.00123	.049	.00428	.00397	.014
%RSD	.24771	.19557	.84191	.80004	.05751
#1	.49400	25.098	.50547	.49303	24.041
#2	.49574	25.167	.51152	.49864	24.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50832**	**.49671**	**.49748**	**.49589**	**.49998**
Stddev	.00050	.00075	.00198	.00003	.00024
%RSD	.09873	.15195	.39802	.00587	.04816
#1	.50867	.49617	.49608	.49587	.50015
#2	.50796	.49724	.49888	.49591	.49981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:12:29 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50232
Stddev	.00017
%RSD	.03455
#1	.50220
#2	.50245
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3386.1	2361.9	16608.	3122.1
Stddev	6.2	5.8	108.	3.0
%RSD	.18240	.24459	.65114	.09462
#1	3390.5	2366.0	16685.	3120.0
#2	3381.7	2357.8	16532.	3124.2

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:15:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.01091**	**-.00152**	**.00124**	**.00009**
Stddev	.00008	.01810	.00022	.00017	.00003
%RSD	9.8985	165.93	14.366	13.694	29.105
#1	-.00073	-.00189	-.00168	.00112	.00011
#2	-.00084	.02370	-.00137	.00136	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.01734**	**.00007**	**-.0249**	**-.00001**
Stddev	.00004	.00639	.00009	.0175	.00012
%RSD	80.908	36.850	138.82	70.13	1341.3
#1	-.00002	.01282	.00000	-.0126	-.00010
#2	-.00007	.02185	.00013	-.0373	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00061**	**.00601**	**.02699**	**-.00036**
Stddev	.00038	.00017	.00072	.00027	.00092
%RSD	210.01	27.754	11.928	.98263	257.97
#1	.00045	-.00049	.00651	.02680	-.00100
#2	-.00009	-.00073	.00550	.02717	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:15:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00721**	**.00001**	**.00005**	**.01178**	**-.00026**
Stddev	.00363	.00008	.00001	.01212	.00000
%RSD	50.316	715.27	17.562	102.82	1.8816
#1	.00464	.00007	.00004	.00322	-.00026
#2	.00977	-.00005	.00005	.02035	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00135**	**.00068**	**.00351**	**.01144**
Stddev	.00015	.00040	.00120	.00047	.00876
%RSD	58.315	29.401	177.73	13.272	76.537
#1	.00015	.00163	-.00017	.00384	.00525
#2	.00037	.00107	.00153	.00318	.01763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00003**	**-.00014**	**.00070**	**.00068**
Stddev	.00038	.00001	.00021	.00009	.00008
%RSD	262.35	44.758	149.77	13.422	11.180
#1	.00012	.00004	-.00029	.00063	.00063
#2	-.00042	.00002	.00001	.00077	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:15:41 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00007
Stddev	.00027
%RSD	403.10
#1	-.00012
#2	.00025
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3727.5	2400.4	17107.	3106.2
Stddev	3.0	3.5	28.	16.4
%RSD	.08152	.14754	.16177	.52669
#1	3729.7	2403.0	17088.	3117.7
#2	3725.4	2397.9	17127.	3094.6

Sample Name: CCVL-4147888 Acquired: 7/26/2017 20:19:10 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00488**	**.22419**	**.01516**	**.02107**	**.00221**
Stddev	.00068	.00252	.00051	.00003	.00002
%RSD	13.865	1.1239	3.3894	.12854	.88504
#1	.00440	.22241	.01552	.02105	.00222
#2	.00536	.22597	.01479	.02109	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.50728**	**.00222**	**-.0288**	**.00398**
Stddev	.00002	.00236	.00008	.0200	.00003
%RSD	.77508	.46494	3.7586	69.41	.70462
#1	.00208	.50895	.00216	-.0147	.00400
#2	.00210	.50561	.00227	-.0430	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.01127**	**.05374**	**.56327**	**.03267**
Stddev	.00009	.00004	.00128	.00505	.00036
%RSD	2.1065	.34277	2.3795	.89574	1.0948
#1	.00406	.01130	.05464	.56684	.03292
#2	.00419	.01124	.05283	.55970	.03242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 20:19:10 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21493**	**.00324**	**.00998**	**1.0298**	**.00998**
Stddev	.00679	.00001	.00001	.0067	.00004
%RSD	3.1573	.38407	.12825	.65320	.41834
#1	.21973	.00323	.00999	1.0345	.01001
#2	.21013	.00325	.00997	1.0250	.00995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01028**	**.19758**	**.01999**	**.02688**	**.51405**
Stddev	.00096	.00316	.00201	.00187	.00616
%RSD	9.3490	1.6010	10.059	6.9744	1.1975
#1	.01096	.19981	.02142	.02821	.50969
#2	.00960	.19534	.01857	.02555	.51840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00963**	**.00490**	**.00469**	**.02011**	**.00496**
Stddev	.00061	.00009	.00013	.00170	.00016
%RSD	6.3057	1.8984	2.6893	8.4781	3.3219
#1	.01006	.00483	.00478	.02131	.00507
#2	.00920	.00496	.00460	.01890	.00484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 20:19:10 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01094
Stddev	.00038
%RSD	3.4546
#1	.01121
#2	.01067
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3721.1	2404.5	17148.	3101.2
Stddev	4.1	7.6	24.	3.3
%RSD	.11030	.31472	.14185	.10623
#1	3724.0	2409.8	17165.	3098.9
#2	3718.2	2399.1	17131.	3103.5

Sample Name: 480-121501-c-6-a Acquired: 7/26/2017 20:22:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**40.907**	**.02924**	**.06604**	**.16250**
Stddev	.00125	.164	.00203	.00017	.00016
%RSD	77.123	.39995	6.9421	.25896	.09692
#1	-.00073	40.791	.02780	.06592	.16262
#2	-.00250	41.023	.03067	.06616	.16239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	**476.49**	**.00080**	**.2806**	**.02729**
Stddev	.00004	1.09	.00012	.0215	.00011
%RSD	2.1173	.22940	15.041	7.658	.38780
#1	.00176	475.71	.00072	.2958	.02721
#2	.00181	477.26	.00089	.2654	.02736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05860**	**.06742**	**77.993**	**11.115**	**.06396**
Stddev	.00015	.00147	.381	.058	.00121
%RSD	.24916	2.1846	.48906	.51739	1.8927
#1	.05850	.06846	78.263	11.156	.06310
#2	.05871	.06638	77.723	11.075	.06481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-6-a Acquired: 7/26/2017 20:22:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**173.56**	**2.7419**	**.00304**	**1.6094**	**.07102**
Stddev	.50	.0045	.00036	.0062	.00007
%RSD	.29072	.16235	11.896	.38633	.09561
#1	173.91	2.7451	.00278	1.6050	.07107
#2	173.20	2.7388	.00330	1.6138	.07097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04453**	**1.2334**	**-.00047**	**.00043**	**4.0118**
Stddev	.00061	.0014	.00000	.00232	.0195
%RSD	1.3623	.11411	.00352	545.76	.48599
#1	.04410	1.2344	-.00047	-.00122	4.0256
#2	.04496	1.2324	-.00047	.00207	3.9981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05253**	**.53537**	**1.4307**	**-.00095**	**.11323**
Stddev	.00002	.00124	.0011	.00090	.00007
%RSD	.03359	.23234	.07535	94.465	.06360
#1	.05252	.53449	1.4315	-.00032	.11328
#2	.05254	.53625	1.4300	-.00159	.11318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-6-a Acquired: 7/26/2017 20:22:38 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.25367
Stddev	.00114
%RSD	.44819
#1	.25448
#2	.25287
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2877.6	2365.6	16745.	3371.3
Stddev	.4	4.9	3.	.4
%RSD	.01327	.20535	.01623	.01087
#1	2877.9	2362.2	16747.	3371.1
#2	2877.3	2369.1	16744.	3371.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.173%	98.154%	97.184%	105.85%
Range				

Sample Name: 480-121550-c-1-a Acquired: 7/26/2017 20:26:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00190	68.774	.05311	.08214	.53992
Stddev	.00003	.142	.00054	.00007	.00100
%RSD	1.4241	.20695	1.0087	.09053	.18557
#1	.00188	68.673	.05273	.08219	.53921
#2	.00192	68.875	.05349	.08209	.54063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00343	372.00	.00309	.3494	.04074
Stddev	.00019	1.00	.00014	.0093	.00011
%RSD	5.6001	.26862	4.6869	2.651	.28166
#1	.00356	371.29	.00299	.3429	.04066
#2	.00329	372.71	.00320	.3560	.04082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09690	.18503	108.95	14.517	.07791
Stddev	.00104	.00168	.15	.058	.00043
%RSD	1.0742	.90867	.14054	.40178	.54792
#1	.09616	.18384	109.06	14.558	.07761
#2	.09763	.18622	108.84	14.475	.07821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-c-1-a Acquired: 7/26/2017 20:26:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**73.267**	**2.6023**	**.00348**	**1.6099**	**.10141**
Stddev	.085	.0038	.00019	.0043	.00002
%RSD	.11633	.14747	5.5590	.26714	.01506
#1	73.207	2.5996	.00361	1.6130	.10142
#2	73.327	2.6050	.00334	1.6069	.10140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1145**	**5.6453**	**.00306**	**.00335**	**3.9873**
Stddev	.0077	.0026	.00029	.00163	.0362
%RSD	.18775	.04516	9.5574	48.766	.90772
#1	4.1090	5.6435	.00327	.00219	3.9617
#2	4.1200	5.6471	.00285	.00450	4.0129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10120**	**.53034**	**1.4245**	**-.00211**	**.16420**
Stddev	.00004	.00050	.0040	.00111	.00068
%RSD	.03945	.09365	.28121	52.662	.41639
#1	.10122	.53069	1.4217	-.00290	.16372
#2	.10117	.52999	1.4274	-.00133	.16468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-c-1-a Acquired: 7/26/2017 20:26:07 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0472**
Stddev	.0032
%RSD	.31066
#1	1.0449
#2	1.0495
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2989.6**	**2455.6**	**17320.**	**3399.6**
Stddev	4.5	2.3	26.	12.9
%RSD	.15022	.09329	.14973	.38085
#1	2992.7	2457.2	17338.	3390.4
#2	2986.4	2454.0	17302.	3408.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.175%	101.89%	100.52%	106.74%
Range				

Sample Name: 480-121550-d-3-a Acquired: 7/26/2017 20:29:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00403**	**61.987**	**.05718**	**.09686**	**.89907**
Stddev	.00036	.004	.00273	.00021	.00242
%RSD	8.8461	.00665	4.7719	.21924	.26890
#1	.00378	61.984	.05525	.09701	.89736
#2	.00428	61.990	.05910	.09671	.90078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	**428.77**	**.02468**	**.3494**	**.04510**
Stddev	.00002	.01	.00005	.0266	.00010
%RSD	.68206	.00265	.22202	7.605	.21291
#1	.00354	428.78	.02464	.3306	.04517
#2	.00351	428.76	.02472	.3682	.04503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10291**	**.50851**	**101.05**	**14.655**	**.07495**
Stddev	.00054	.00377	.04	.032	.00010
%RSD	.52061	.74235	.04408	.21633	.13683
#1	.10329	.50584	101.02	14.633	.07487
#2	.10253	.51118	101.08	14.678	.07502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-d-3-a Acquired: 7/26/2017 20:29:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**141.27**	**2.7657**	**.00583**	**1.5729**	**.12671**
Stddev	.65	.0125	.00012	.0104	.00056
%RSD	.45984	.45277	2.1098	.65814	.43950
#1	140.81	2.7568	.00574	1.5656	.12631
#2	141.73	2.7745	.00592	1.5802	.12710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5070**	**5.8163**	**.00454**	**.00837**	**4.6995**
Stddev	.0029	.0038	.00030	.00185	.0931
%RSD	.11556	.06546	6.6739	22.045	1.9815
#1	2.5049	5.8190	.00433	.00707	4.7654
#2	2.5090	5.8136	.00476	.00967	4.6337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.29543**	**.63806**	**1.6541**	**-.00218**	**.15686**
Stddev	.00169	.00115	.0123	.00128	.00082
%RSD	.57301	.18044	.74212	58.469	.52428
#1	.29423	.63887	1.6454	-.00309	.15628
#2	.29662	.63724	1.6628	-.00128	.15744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-d-3-a Acquired: 7/26/2017 20:29:31 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.8234**
Stddev	.0119
%RSD	.65020
#1	1.8151
#2	1.8318
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2899.8**	**2408.8**	**17146.**	**3398.2**
Stddev	4.8	4.7	63.	14.0
%RSD	.16469	.19349	.36592	.41180
#1	2903.2	2412.1	17191.	3388.3
#2	2896.4	2405.5	17102.	3408.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.768%	99.943%	99.510%	106.70%
Range				

Sample Name: 480-121550-a-8-a Acquired: 7/26/2017 20:33:00 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**78.256**	**.04298**	**.11793**	**.85300**
Stddev	.00012	.194	.00023	.00059	.00172
%RSD	11.815	.24808	.53950	.49726	.20112
#1	.00090	78.119	.04314	.11751	.85179
#2	.00106	78.393	.04281	.11834	.85422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00294**	**217.35**	**.00245**	**.3727**	**.03600**
Stddev	.00010	.40	.00011	.0052	.00025
%RSD	3.4967	.18302	4.3628	1.397	.68869
#1	.00302	217.06	.00237	.3690	.03583
#2	.00287	217.63	.00252	.3764	.03618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10516**	**.15449**	**100.11**	**16.183**	**.06872**
Stddev	.00099	.00057	.45	.050	.00058
%RSD	.93698	.36670	.45020	.30810	.84132
#1	.10586	.15489	99.790	16.147	.06913
#2	.10446	.15409	100.43	16.218	.06831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-a-8-a Acquired: 7/26/2017 20:33:00 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**70.229**	**2.3715**	**.00183**	**1.8739**	**.08387**
Stddev	.135	.0018	.00019	.0050	.00044
%RSD	.19259	.07652	10.615	.26956	.52285
#1	70.133	2.3702	.00196	1.8703	.08418
#2	70.325	2.3728	.00169	1.8774	.08356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6518**	**2.3867**	**.00051**	**.00040**	**4.3467**
Stddev	.0026	.0017	.00203	.00363	.0186
%RSD	.15489	.07249	397.67	905.00	.42715
#1	1.6536	2.3855	-.00092	.00297	4.3336
#2	1.6500	2.3879	.00195	-.00217	4.3598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07595**	**.34529**	**1.9749**	**-.00408**	**.16636**
Stddev	.00044	.00031	.0004	.00092	.00113
%RSD	.57403	.08850	.02131	22.557	.67651
#1	.07626	.34551	1.9746	-.00473	.16716
#2	.07564	.34507	1.9752	-.00343	.16556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-a-8-a Acquired: 7/26/2017 20:33:00 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0853
Stddev	.0002
%RSD	.01498
#1	1.0855
#2	1.0852
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3098.2	2528.1	17795.	3464.1
Stddev	4.9	1.6	15.	10.7
%RSD	.15967	.06432	.08455	.31012
#1	3094.7	2527.0	17806.	3471.6
#2	3101.7	2529.3	17785.	3456.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.089%	104.90%	103.28%	108.76%
Range				

Sample Name: 480-121550-a-11-a Acquired: 7/26/2017 20:36:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00135**	**53.139**	**.02928**	**.10038**	**.57153**
Stddev	.00030	.001	.00206	.00054	.00272
%RSD	22.233	.00153	7.0436	.53507	.47508
#1	-.00156	53.139	.03074	.10076	.56961
#2	-.00113	53.140	.02783	.10000	.57345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**316.32**	**.00211**	**.2826**	**.03047**
Stddev	.00005	2.00	.00006	.0340	.00009
%RSD	2.3128	.63112	2.6367	12.02	.30974
#1	.00209	314.91	.00207	.3066	.03040
#2	.00202	317.73	.00215	.2586	.03053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07827**	**.20877**	**79.292**	**15.180**	**.06128**
Stddev	.00081	.00106	.172	.024	.00262
%RSD	1.0392	.50770	.21755	.15681	4.2774
#1	.07884	.20802	79.170	15.163	.06313
#2	.07769	.20952	79.414	15.196	.05943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-a-11-a Acquired: 7/26/2017 20:36:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**108.73**	**2.4684**	**.00249**	**1.5834**	**.07979**
Stddev	.13	.0002	.00011	.0012	.00058
%RSD	.11947	.00989	4.5488	.07681	.72354
#1	108.82	2.4686	.00257	1.5843	.07939
#2	108.63	2.4683	.00241	1.5825	.08020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77326**	**3.5059**	**.00143**	**.00017**	**4.9655**
Stddev	.00269	.0041	.00014	.00249	.0295
%RSD	.34765	.11610	9.5831	1454.1	.59430
#1	.77516	3.5030	.00153	.00194	4.9864
#2	.77136	3.5088	.00133	-.00159	4.9446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07214**	**.46724**	**1.3437**	**-.00066**	**.13094**
Stddev	.00056	.00027	.0003	.00061	.00008
%RSD	.77248	.05852	.02500	92.706	.06424
#1	.07254	.46743	1.3440	-.00023	.13088
#2	.07175	.46705	1.3435	-.00109	.13100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121550-a-11-a Acquired: 7/26/2017 20:36:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.66160**
Stddev	.00010
%RSD	.01550
#1	.66152
#2	.66167
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3035.3**	**2458.5**	**17407.**	**3392.7**
Stddev	2.3	.1	17.	27.3
%RSD	.07442	.00462	.09842	.80447
#1	3036.9	2458.6	17419.	3412.0
#2	3033.7	2458.4	17395.	3373.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.401%	102.01%	101.02%	106.52%
Range				

Sample Name: 480-121393-b-2-a Acquired: 7/26/2017 20:39:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**36.723**	**.36428**	**.08193**	**1.4365**
Stddev	.00008	.220	.00487	.00046	.0022
%RSD	8.8950	.59892	1.3376	.55896	.15145
#1	-.00092	36.567	.36084	.08225	1.4350
#2	-.00081	36.878	.36773	.08161	1.4380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00712**	**104.68**	**.00591**	**.2147**	**.05337**
Stddev	.00014	.38	.00014	.0056	.00026
%RSD	2.0277	.36051	2.3667	2.601	.48044
#1	.00702	104.41	.00581	.2186	.05319
#2	.00722	104.95	.00601	.2107	.05355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18390**	**.86323**	**230.32**	**5.2077**	**.04364**
Stddev	.00083	.00087	.63	.0443	.00010
%RSD	.45173	.10129	.27529	.85067	.23240
#1	.18449	.86384	229.88	5.1764	.04357
#2	.18331	.86261	230.77	5.2391	.04372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121393-b-2-a Acquired: 7/26/2017 20:39:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.093**	**3.2116**	**.01724**	**1.2348**	**.21072**
Stddev	.038	.0011	.00028	.0019	.00032
%RSD	.14000	.03447	1.6144	.15207	.15330
#1	27.119	3.2124	.01705	1.2362	.21095
#2	27.066	3.2108	.01744	1.2335	.21049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5298**	**8.6532**	**.03343**	**.01418**	**7.0007**
Stddev	.0014	.0115	.00133	.00148	.0424
%RSD	.09351	.13290	3.9817	10.405	.60599
#1	1.5308	8.6451	.03437	.01523	7.0307
#2	1.5287	8.6614	.03249	.01314	6.9707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15428**	**1.4204**	**1.7573**	**-.00074**	**.12295**
Stddev	.00011	.0069	.0010	.00255	.00112
%RSD	.07175	.48807	.05710	346.23	.91231
#1	.15420	1.4155	1.7565	-.00254	.12374
#2	.15436	1.4253	1.7580	.00107	.12216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121393-b-2-a Acquired: 7/26/2017 20:39:55 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.3527**
Stddev	.0021
%RSD	.15424
#1	1.3512
#2	1.3541
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3254.4**	**2498.6**	**17655.**	**3409.9**
Stddev	.6	2.8	18.	27.6
%RSD	.01845	.11259	.10088	.80860
#1	3254.8	2500.6	17643.	3429.4
#2	3254.0	2496.7	17668.	3390.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.279%	103.67%	102.47%	107.06%
Range				

Sample Name: 480-121389-c-2-a Acquired: 7/26/2017 20:43:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**77.904**	**.03047**	**.03279**	**.35030**
Stddev	.00006	.043	.00138	.00012	.00003
%RSD	7.2730	.05515	4.5153	.36143	.00814
#1	-.00081	77.874	.02950	.03270	.35032
#2	-.00073	77.935	.03145	.03287	.35028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00195**	**15.863**	**.00952**	**.1640**	**.01573**
Stddev	.00011	.021	.00010	.0005	.00011
%RSD	5.7427	.13450	1.0057	.3173	.67217
#1	.00187	15.878	.00945	.1637	.01565
#2	.00203	15.848	.00958	.1644	.01580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13816**	**.32844**	**52.411**	**4.3826**	**.06273**
Stddev	.00023	.00038	.217	.0462	.00020
%RSD	.16541	.11617	.41314	1.0554	.32252
#1	.13799	.32871	52.565	4.4153	.06259
#2	.13832	.32817	52.258	4.3499	.06287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-c-2-a Acquired: 7/26/2017 20:43:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.783**	**.24350**	**.01796**	**.60113**	**.07594**
Stddev	.002	.00036	.00015	.01626	.00010
%RSD	.01906	.14984	.83654	2.7050	.12788
#1	10.785	.24375	.01785	.61263	.07601
#2	10.782	.24324	.01807	.58963	.07587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44844**	**5.8967**	**.00552**	**.00506**	**4.3943**
Stddev	.00029	.0063	.00058	.00140	.0176
%RSD	.06517	.10619	10.548	27.702	.40061
#1	.44823	5.9012	.00511	.00407	4.4067
#2	.44864	5.8923	.00593	.00606	4.3818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07648**	**.05354**	**1.6589**	**.00036**	**.21944**
Stddev	.00095	.00013	.0054	.00160	.00134
%RSD	1.2455	.24871	.32666	449.15	.61233
#1	.07581	.05345	1.6627	.00149	.22039
#2	.07715	.05364	1.6551	-.00078	.21849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121389-c-2-a Acquired: 7/26/2017 20:43:18 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.7006
Stddev	.0064
%RSD	.37372
#1	1.7051
#2	1.6961
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3464.2	2470.7	17351.	3299.6
Stddev	1.1	2.2	16.	.5
%RSD	.03146	.08948	.09052	.01379
#1	3463.4	2469.1	17362.	3299.3
#2	3465.0	2472.2	17340.	3300.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.905%	102.51%	100.70%	103.60%
Range				

Sample Name: 480-121492-a-1-a Acquired: 7/26/2017 20:46:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01651**	**19.220**	**.04372**	**.06369**	F **46.888**
Stddev	.00019	.065	.00008	.00027	.340
%RSD	1.1568	.33784	.18290	.42089	.72541
#1	.01638	19.174	.04377	.06388	46.648
#2	.01665	19.266	.04366	.06350	47.129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					9.0000
Low Limit					-.00200

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	F **1992.6**	**.57644**	**.0078**	**.18513**
Stddev	.00002	3.9	.00003	.0264	.00053
%RSD	2.9241	.19560	.00577	339.2	.28540
#1	-.00075	1989.9	.57646	.0264	.18551
#2	-.00079	1995.4	.57642	-.0109	.18476
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.33375**	**.05013**	**7.4658**	**1.8103**	**-.02826**
Stddev	.00234	.00041	.0502	.0565	.00015
%RSD	.70147	.82778	.67235	3.1213	.52968
#1	.33210	.04984	7.4303	1.7703	-.02815
#2	.33541	.05043	7.5013	1.8502	-.02836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121492-a-1-a Acquired: 7/26/2017 20:46:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.204**	**.50663**	**.00193**	**1.2538**	**.02226**
Stddev	.066	.00069	.00025	.0135	.00003
%RSD	.20544	.13677	13.090	1.0796	.13972
#1	32.158	.50614	.00175	1.2443	.02228
#2	32.251	.50712	.00211	1.2634	.02224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **479.37**	**72.526**	**.02305**	**-.00486**	**3.2807**
Stddev	.22	.012	.00127	.00122	.0024
%RSD	.04609	.01603	5.5127	25.097	.07435
#1	479.52	72.534	.02394	-.00572	3.2789
#2	479.21	72.518	.02215	-.00400	3.2824
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	110.00				
Low Limit	-.01000				

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13811**	**1.1437**	**12.177**	**-.01008**	**.02968**
Stddev	.00019	.0014	.029	.00124	.00035
%RSD	.13575	.12639	.23694	12.261	1.1679
#1	.13824	1.1447	12.156	-.01095	.02944
#2	.13798	1.1427	12.197	-.00920	.02993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121492-a-1-a Acquired: 7/26/2017 20:46:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **204.00**
Stddev	.57
%RSD	.27911
#1	204.40
#2	203.60
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2555.3**	**2003.1**	**14752.**	**2954.6**
Stddev	1.8	3.3	8.	21.9
%RSD	.07114	.16233	.05302	.74061
#1	2556.6	2005.4	14758.	2970.0
#2	2554.0	2000.8	14747.	2939.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.529%	83.112%	85.618%	92.767%
Range				

Sample Name: 480-121492-a-1-a@10 Acquired: 7/26/2017 20:50:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**1.9942**	**.00434**	**.00824**	**4.8089**
Stddev	.00108	.0247	.00000	.00029	.0455
%RSD	885.83	1.2398	.05828	3.5039	.94697
#1	-.00064	1.9768	.00435	.00845	4.7767
#2	.00088	2.0117	.00434	.00804	4.8411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**220.13**	**.05505**	**-.0014**	**.01774**
Stddev	.00005	1.94	.00010	.0157	.00003
%RSD	66.028	.87997	.17754	1083.	.18306
#1	-.00011	218.76	.05498	-.0125	.01772
#2	-.00004	221.50	.05512	.0096	.01776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03672**	**-.00288**	**.77874**	**.20898**	**-.00704**
Stddev	.00052	.00105	.00154	.02372	.00231
%RSD	1.4192	36.449	.19784	11.352	32.738
#1	.03635	-.00214	.77765	.19220	-.00868
#2	.03709	-.00362	.77983	.22575	-.00541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121492-a-1-a@10 Acquired: 7/26/2017 20:50:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5679**	**.05453**	**.00040**	**.12275**	**.00202**
Stddev	.0076	.00011	.00024	.00135	.00006
%RSD	.21285	.19348	59.675	1.1009	3.2034
#1	3.5733	.05460	.00057	.12179	.00207
#2	3.5625	.05445	.00023	.12371	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.806**	**6.7533**	**.00322**	**-.00143**	**.54911**
Stddev	.066	.0107	.00035	.00079	.02890
%RSD	.13538	.15765	10.920	55.398	5.2637
#1	48.853	6.7608	.00297	-.00087	.52867
#2	48.759	6.7458	.00347	-.00199	.56955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01348**	**.11486**	**2.1290**	**-.00038**	**.00344**
Stddev	.00043	.00060	.0334	.00049	.00029
%RSD	3.1721	.51884	1.5700	127.38	8.4545
#1	.01318	.11444	2.1054	-.00073	.00323
#2	.01378	.11528	2.1527	-.00004	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121492-a-1-a@10 Acquired: 7/26/2017 20:50:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **32.888**
Stddev	.099
%RSD	.30131
#1	32.818
#2	32.958
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3266.4**	**2266.0**	**16176.**	**3071.3**
Stddev	.1	.6	19.	10.6
%RSD	.00234	.02691	.11557	.34618
#1	3266.4	2265.6	16163.	3078.9
#2	3266.3	2266.5	16190.	3063.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.600%	94.022%	93.881%	96.433%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:53:45 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48802**	**24.959**	**.49245**	**.51328**	**.51429**
Stddev	.00198	.106	.00114	.00031	.00131
%RSD	.40509	.42662	.23184	.06049	.25492
#1	.48942	25.034	.49164	.51306	.51521
#2	.48662	24.883	.49325	.51350	.51336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51342**	**24.816**	**.51046**	**-.0199**	**.49806**
Stddev	.00202	.191	.00029	.0098	.00008
%RSD	.39365	.76780	.05724	49.42	.01648
#1	.51485	24.951	.51025	-.0130	.49812
#2	.51199	24.681	.51066	-.0269	.49800
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49926**	**.53504**	**24.241**	**26.539**	**.52233**
Stddev	.00075	.00317	.185	.118	.00190
%RSD	.14962	.59328	.76136	.44279	.36403
#1	.49979	.53728	24.371	26.622	.52367
#2	.49874	.53279	24.110	26.456	.52098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:53:45 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.530**	**.52707**	**.50079**	**25.800**	**.50648**
Stddev	.029	.00116	.00176	.161	.00035
%RSD	.11463	.22069	.35109	.62285	.06907
#1	25.510	.52790	.49955	25.914	.50673
#2	25.551	.52625	.50204	25.687	.50624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50376**	**25.233**	**.50928**	**.50159**	**24.013**
Stddev	.00045	.045	.00157	.00205	.202
%RSD	.09003	.17887	.30883	.40871	.84197
#1	.50344	25.201	.51040	.50014	24.156
#2	.50408	25.265	.50817	.50304	23.870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50901**	**.49696**	**.49977**	**.49863**	**.50061**
Stddev	.00118	.00221	.00065	.00078	.00204
%RSD	.23219	.44409	.13070	.15579	.40799
#1	.50817	.49852	.50023	.49808	.50205
#2	.50984	.49540	.49930	.49918	.49916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 20:53:45 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50819**
Stddev	.00005
%RSD	.00921
#1	.50823
#2	.50816
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3390.0**	**2360.6**	**16635.**	**3103.5**
Stddev	7.8	3.7	7.	18.6
%RSD	.22944	.15704	.04198	.59985
#1	3384.5	2358.0	16630.	3090.4
#2	3395.5	2363.2	16640.	3116.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:56:57 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.01584**	**.00001**	**.00108**	**.00053**
Stddev	.00033	.00282	.00183	.00019	.00000
%RSD	419.94	17.796	12555.	17.431	.36671
#1	-.00031	.01783	-.00128	.00095	.00053
#2	.00015	.01384	.00131	.00121	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.03151**	**.00010**	**.0004**	**-.00011**
Stddev	.00008	.00341	.00006	.0080	.00003
%RSD	229.19	10.813	56.310	2049.	21.781
#1	.00009	.02910	.00014	-.0053	-.00013
#2	-.00002	.03392	.00006	.0061	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00030**	**.00799**	**-.00168**	**-.00215**
Stddev	.00001	.00118	.00220	.01159	.00032
%RSD	1.7386	391.59	27.503	688.02	14.799
#1	.00053	.00114	.00643	-.00988	-.00237
#2	.00052	-.00053	.00954	.00651	-.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:56:57 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00672**	**.00013**	**.00010**	**.00913**	**.00006**
Stddev	.00168	.00003	.00003	.00274	.00019
%RSD	24.939	22.382	27.391	30.059	326.10
#1	.00791	.00011	.00008	.01107	.00019
#2	.00554	.00015	.00012	.00719	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00318**	**.00447**	**.00019**	**.00281**	**.03098**
Stddev	.00036	.00062	.00022	.00069	.01036
%RSD	11.298	13.922	114.09	24.514	33.454
#1	.00293	.00491	.00035	.00232	.03831
#2	.00344	.00403	.00004	.00329	.02365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00013**	**.00062**	**.00097**	**.00023**
Stddev	.00045	.00002	.00022	.00077	.00023
%RSD	23589.	12.951	34.834	79.210	98.942
#1	-.00032	.00014	.00047	.00152	.00007
#2	.00032	.00011	.00078	.00043	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 20:56:57 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00362
Stddev	.00012
%RSD	3.4333
#1	.00354
#2	.00371
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3705.8	2386.2	17051.	3083.1
Stddev	5.5	1.8	116.	31.8
%RSD	.14880	.07491	.68127	1.0301
#1	3709.7	2387.5	16969.	3105.6
#2	3701.9	2385.0	17133.	3060.7

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:00:26 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00655**	W **.26962**	**.01448**	**.02120**	**.00252**
Stddev	.00135	.00064	.00053	.00005	.00006
%RSD	20.648	.23656	3.6652	.21896	2.2868
#1	.00750	.26917	.01410	.02116	.00256
#2	.00559	.27007	.01485	.02123	.00248
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.20000			
Range		30.000%			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.52528**	**.00218**	**-.0171**	**.00399**
Stddev	.00005	.00336	.00004	.0041	.00015
%RSD	2.3932	.64023	1.9230	23.96	3.6835
#1	.00204	.52290	.00221	-.0200	.00409
#2	.00211	.52765	.00215	-.0142	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00416**	**.01138**	**.05402**	**.53116**	**.02946**
Stddev	.00042	.00064	.00194	.01845	.00109
%RSD	10.143	5.6528	3.5840	3.4738	3.7124
#1	.00386	.01092	.05539	.51811	.02868
#2	.00446	.01183	.05265	.54420	.03023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:00:26 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21059**	**.00323**	**.00987**	**1.0401**	**.00969**
Stddev	.00017	.00008	.00013	.0078	.00030
%RSD	.07956	2.3776	1.3294	.74862	3.0982
#1	.21071	.00328	.00996	1.0346	.00948
#2	.21047	.00317	.00978	1.0456	.00991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	W **.01319**	**.20025**	**.02096**	**.02755**	**.50848**
Stddev	.00110	.00116	.00060	.00246	.00609
%RSD	8.3641	.58056	2.8385	8.9380	1.1969
#1	.01241	.20107	.02054	.02929	.50418
#2	.01397	.19943	.02138	.02581	.51279
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.01000				
Range	30.000%				

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00938**	**.00505**	**.00542**	**.02006**	**.00530**
Stddev	.00001	.00003	.00070	.00054	.00085
%RSD	.13388	.53843	12.979	2.6702	15.963
#1	.00939	.00507	.00492	.02044	.00589
#2	.00937	.00503	.00592	.01968	.00470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:00:26 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	W .01437
Stddev	.00003
%RSD	.23050
#1	.01439
#2	.01435
Check ?	Chk Warn
Value	.01000
Range	30.000%

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3728.7	2409.9	17166.	3103.4
Stddev	2.0	3.0	41.	6.0
%RSD	.05405	.12300	.23644	.19414
#1	3727.2	2407.8	17138.	3107.6
#2	3730.1	2412.0	17195.	3099.1

Sample Name: mb 480-368710/1-a Acquired: 7/26/2017 21:03:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.04849**	**.00150**	**.00484**	**.00040**
Stddev	.00079	.02809	.00063	.00021	.00001
%RSD	213.93	57.934	41.660	4.2399	1.3622
#1	-.00093	.02863	.00194	.00470	.00040
#2	.00019	.06835	.00106	.00499	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.08390**	**-.00006**	**-.0085**	**-.00004**
Stddev	.00005	.00137	.00002	.0014	.00010
%RSD	485.88	1.6339	32.833	16.61	248.97
#1	-.00002	.08487	-.00004	-.0075	-.00011
#2	.00004	.08293	-.00007	-.0095	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00108**	**.00933**	**.06055**	**.00012**
Stddev	.00048	.00086	.00081	.05857	.00042
%RSD	148.79	79.538	8.7299	96.731	364.51
#1	-.00002	.00169	.00875	.01913	.00041
#2	.00066	.00047	.00991	.10197	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368710/1-a Acquired: 7/26/2017 21:03:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00932**	**.00109**	**.00000**	**.03285**	**-.00010**
Stddev	.00305	.00003	.00023	.01065	.00011
%RSD	32.747	3.0390	8144.8	32.411	100.52
#1	.00716	.00107	.00017	.02532	-.00018
#2	.01148	.00111	-.00016	.04038	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00133**	**.02813**	**.00019**	**.00216**	**-.00012**
Stddev	.00090	.00115	.00050	.00004	.00578
%RSD	67.315	4.0988	269.37	1.8842	4907.8
#1	.00070	.02731	-.00017	.00219	.00397
#2	.00196	.02894	.00054	.00214	-.00420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.00028**	**-.00003**	**.00066**	**-.00017**
Stddev	.00007	.00001	.00054	.00037	.00041
%RSD	10.687	3.4039	1877.7	55.268	243.52
#1	-.00072	.00028	-.00041	.00040	-.00046
#2	-.00062	.00029	.00036	.00092	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368710/1-a Acquired: 7/26/2017 21:03:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00241
Stddev	.00059
%RSD	24.437
#1	.00199
#2	.00282
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3821.0	2451.8	17405.	3187.0
Stddev	6.7	6.7	72.	8.0
%RSD	.17528	.27170	.41565	.25127
#1	3825.7	2456.5	17456.	3192.6
#2	3816.3	2447.0	17354.	3181.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.47%	101.73%	101.01%	100.06%
Range				

Sample Name: lcs 480-368710/2-a Acquired: 7/26/2017 21:07:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04708**	**10.187**	**.19449**	**.20737**	**.20733**
Stddev	.00029	.009	.00105	.00016	.00018
%RSD	.61372	.08573	.54226	.07534	.08585
#1	.04688	10.193	.19523	.20748	.20745
#2	.04729	10.181	.19374	.20726	.20720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20204**	**9.8273**	**.20523**	**-.0350**	**.18929**
Stddev	.00034	.0297	.00074	.0145	.00034
%RSD	.16780	.30265	.35925	41.35	.18193
#1	.20228	9.8483	.20471	-.0248	.18953
#2	.20180	9.8062	.20576	-.0453	.18905
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19686**	**.21665**	**9.9703**	**10.351**	**.20615**
Stddev	.00007	.00024	.0099	.030	.00183
%RSD	.03727	.10855	.09932	.29234	.88532
#1	.19691	.21648	9.9773	10.372	.20486
#2	.19681	.21682	9.9633	10.329	.20744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368710/2-a Acquired: 7/26/2017 21:07:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.400**	**.21459**	**.19852**	**10.075**	**.19559**
Stddev	.006	.00037	.00049	.010	.00009
%RSD	.05692	.17452	.24847	.10203	.04382
#1	10.395	.21486	.19817	10.082	.19565
#2	10.404	.21433	.19887	10.067	.19553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20062**	**10.012**	**.20183**	**.19716**	**9.7582**
Stddev	.00017	.012	.00044	.00416	.0378
%RSD	.08502	.11884	.21966	2.1080	.38760
#1	.20074	10.003	.20152	.20009	9.7849
#2	.20050	10.020	.20215	.19422	9.7314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19796**	**.19627**	**.19495**	**.19670**	**.20072**
Stddev	.00027	.00025	.00080	.00035	.00027
%RSD	.13719	.12565	.41247	.17982	.13419
#1	.19816	.19645	.19552	.19645	.20092
#2	.19777	.19610	.19438	.19695	.20053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368710/2-a Acquired: 7/26/2017 21:07:21 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20403**
Stddev	.00116
%RSD	.56937
#1	.20485
#2	.20321
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3592.0**	**2417.6**	**17067.**	**3186.0**
Stddev	7.1	6.2	15.	7.2
%RSD	.19882	.25479	.09054	.22620
#1	3597.0	2421.9	17078.	3180.9
#2	3586.9	2413.2	17056.	3191.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.331%	100.31%	99.052%	100.03%
Range				

Sample Name: 480-121588-e-1-b Acquired: 7/26/2017 21:10:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.04494**	**.00080**	**.02512**	**.18454**
Stddev	.00090	.00695	.00270	.00019	.00051
%RSD	143.12	15.462	335.45	.76164	.27873
#1	-.00126	.04003	.00271	.02498	.18417
#2	.00001	.04986	-.00110	.02525	.18490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**49.685**	**.00012**	**-.0280**	**.00002**
Stddev	.00014	.222	.00003	.0068	.00019
%RSD	254.65	.44679	28.680	24.18	886.03
#1	-.00015	49.528	.00009	-.0232	.00015
#2	.00004	49.842	.00014	-.0328	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00067**	**.02539**	**1.4695**	**.01601**
Stddev	.00022	.00039	.00189	.0102	.00030
%RSD	125.98	58.044	7.4393	.69157	1.8436
#1	.00002	.00040	.02406	1.4767	.01580
#2	.00032	.00095	.02673	1.4623	.01621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-1-b Acquired: 7/26/2017 21:10:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.833**	**.28918**	**.00056**	**125.32**	**.00231**
Stddev	.016	.00049	.00010	.75	.00014
%RSD	.10105	.16848	18.731	.60065	5.9401
#1	15.844	.28884	.00049	124.78	.00221
#2	15.822	.28953	.00063	125.85	.00241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**6.1096**	**-.00024**	**-.00067**	**4.9750**
Stddev	.00046	.0117	.00077	.00136	.0582
%RSD	22.393	.19211	325.93	201.92	1.1693
#1	.00237	6.1179	-.00078	.00029	4.9339
#2	.00172	6.1013	.00031	-.00164	5.0162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.29373**	**.00003**	**.00033**	**.00031**
Stddev	.00023	.00033	.00005	.00075	.00041
%RSD	73.374	.11354	169.98	230.03	133.04
#1	-.00048	.29350	.00007	.00086	.00059
#2	-.00015	.29397	-.00001	-.00021	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-1-b Acquired: 7/26/2017 21:10:37 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00401
Stddev	.00053
%RSD	13.078
#1	.00439
#2	.00364
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3339.7	2335.5	16461.	3136.0
Stddev	8.5	4.2	30.	30.0
%RSD	.25466	.17851	.18209	.95645
#1	3345.7	2338.4	16439.	3157.2
#2	3333.6	2332.5	16482.	3114.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.565%	96.902%	95.531%	98.463%
Range				

Sample Name: 480-121588-e-2-b Acquired: 7/26/2017 21:14:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.05307**	**-.00020**	**.02560**	**.18980**
Stddev	.00026	.00714	.00206	.00021	.00052
%RSD	65.848	13.455	1011.4	.80145	.27328
#1	.00021	.04802	.00125	.02575	.19017
#2	.00059	.05812	-.00166	.02546	.18943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**50.617**	**.00025**	**-.0447**	**.00006**
Stddev	.00008	.186	.00007	.0375	.00011
%RSD	51.900	.36812	27.040	83.95	174.42
#1	-.00010	50.749	.00020	-.0181	-.00001
#2	-.00022	50.486	.00029	-.0712	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00003**	**.02503**	**1.5190**	**.01637**
Stddev	.00075	.00089	.00195	.0009	.00062
%RSD	160.03	2973.2	7.7956	.06055	3.7701
#1	.00100	-.00066	.02641	1.5183	.01680
#2	-.00006	.00060	.02365	1.5196	.01593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-2-b Acquired: 7/26/2017 21:14:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.192**	**.29435**	**.00042**	**129.21**	**.00184**
Stddev	.025	.00079	.00003	.69	.00045
%RSD	.15398	.26751	6.3607	.53731	24.241
#1	16.174	.29490	.00040	129.70	.00153
#2	16.209	.29379	.00044	128.72	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**6.2316**	**.00053**	**.00126**	**5.0606**
Stddev	.00154	.0153	.00077	.00066	.0323
%RSD	328.37	.24571	144.45	52.543	.63881
#1	-.00062	6.2425	-.00001	.00173	5.0834
#2	.00155	6.2208	.00107	.00079	5.0377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.29939**	**.00070**	**.00168**	**-.00032**
Stddev	.00022	.00050	.00030	.00098	.00027
%RSD	58.671	.16641	43.621	58.566	84.280
#1	-.00022	.29974	.00048	.00098	-.00013
#2	-.00053	.29904	.00091	.00237	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-2-b Acquired: 7/26/2017 21:14:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00554
Stddev	.00094
%RSD	17.046
#1	.00620
#2	.00487
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3325.2	2327.0	16418.	3143.7
Stddev	11.2	7.7	47.	24.7
%RSD	.33579	.33274	.28804	.78715
#1	3333.1	2332.5	16452.	3126.2
#2	3317.3	2321.5	16385.	3161.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.176%	96.552%	95.285%	98.704%
Range				

Sample Name: 480-121588-e-3-b Acquired: 7/26/2017 21:17:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	**.02337**	**-.00170**	**.01602**	**.15311**
Stddev	.00180	.00971	.00190	.00035	.00006
%RSD	204.26	41.550	111.64	2.2052	.04157
#1	-.00216	.01651	-.00304	.01627	.15307
#2	.00039	.03024	-.00036	.01577	.15316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**33.484**	**.00018**	**-.0005**	**-.00010**
Stddev	.00006	.061	.00008	.0130	.00005
%RSD	82.341	.18204	45.318	2696.	53.771
#1	-.00003	33.527	.00023	-.0097	-.00006
#2	-.00011	33.441	.00012	.0087	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00152**	**.01154**	**1.0422**	**.01487**
Stddev	.00058	.00043	.00056	.0306	.00238
%RSD	377.38	27.929	4.8523	2.9401	16.032
#1	.00056	.00122	.01194	1.0639	.01655
#2	-.00025	.00182	.01114	1.0205	.01318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-3-b Acquired: 7/26/2017 21:17:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.525**	**.16672**	**.00011**	**77.291**	**.00087**
Stddev	.030	.00031	.00003	.266	.00037
%RSD	.22046	.18379	26.145	.34418	43.065
#1	13.503	.16693	.00009	77.479	.00113
#2	13.546	.16650	.00014	77.103	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**6.3805**	**.00068**	**.00220**	**5.1970**
Stddev	.00103	.0174	.00022	.00253	.0033
%RSD	52.678	.27327	32.411	114.66	.06317
#1	.00268	6.3682	.00052	.00399	5.1947
#2	.00123	6.3929	.00083	.00042	5.1993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.18628**	**-.00014**	**.00181**	**-.00014**
Stddev	.00051	.00076	.00014	.00070	.00060
%RSD	96.220	.40801	102.46	38.353	431.36
#1	-.00088	.18682	-.00024	.00231	-.00057
#2	-.00017	.18574	-.00004	.00132	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-3-b Acquired: 7/26/2017 21:17:27 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00330**
Stddev	.00011
%RSD	3.3563
#1	.00337
#2	.00322
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3430.5**	**2352.1**	**16657.**	**3146.9**
Stddev	1.4	1.3	1.	8.3
%RSD	.03974	.05552	.00888	.26423
#1	3431.5	2353.0	16656.	3141.0
#2	3429.5	2351.2	16658.	3152.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.001%	97.592%	96.671%	98.806%
Range				

Sample Name: 480-121588-e-4-b Acquired: 7/26/2017 21:20:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00138**	**.04902**	**-.00008**	**.09005**	**.05596**
Stddev	.00042	.01181	.00200	.00042	.00005
%RSD	30.079	24.101	2635.7	.46785	.08078
#1	-.00167	.05738	-.00149	.09035	.05593
#2	-.00109	.04067	.00134	.08975	.05599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**16.312**	**.00004**	**-.0157**	**-.00004**
Stddev	.00004	.043	.00019	.0003	.00011
%RSD	71.164	.26207	517.44	2.136	280.09
#1	-.00003	16.343	-.00010	-.0160	.00004
#2	-.00009	16.282	.00017	-.0155	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00189**	**.02018**	**1.1076**	**.00002**
Stddev	.00012	.00124	.00285	.0022	.00060
%RSD	43.030	65.323	14.120	.19738	3117.8
#1	.00036	.00102	.01816	1.1060	.00044
#2	.00019	.00276	.02219	1.1091	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-4-b Acquired: 7/26/2017 21:20:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8137**	**.00536**	**-.00004**	**6.0992**	**.00044**
Stddev	.0083	.00005	.00012	.0133	.00002
%RSD	.29584	.97527	286.59	.21770	4.1133
#1	2.8078	.00533	-.00012	6.1086	.00045
#2	2.8196	.00540	.00004	6.0899	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**6.2585**	**.00007**	**.00027**	**4.0895**
Stddev	.00086	.0066	.00138	.00048	.0086
%RSD	128.55	.10511	2024.9	176.53	.21084
#1	.00006	6.2632	-.00091	.00062	4.0834
#2	.00128	6.2539	.00104	-.00007	4.0956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.07254**	**.00042**	**.00060**	**.00030**
Stddev	.00011	.00017	.00012	.00017	.00021
%RSD	26.628	.23425	28.271	27.830	69.616
#1	-.00035	.07266	.00033	.00071	.00015
#2	-.00051	.07242	.00050	.00048	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-4-b Acquired: 7/26/2017 21:20:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03184
Stddev	.00030
%RSD	.94205
#1	.03206
#2	.03163
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3690.3	2412.9	17240.	3169.5
Stddev	2.3	.4	58.	10.3
%RSD	.06252	.01653	.33929	.32553
#1	3688.7	2412.6	17281.	3176.8
#2	3691.9	2413.1	17199.	3162.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.968%	100.11%	100.05%	99.514%
Range				

Sample Name: 480-121588-e-5-d Acquired: 7/26/2017 21:24:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.05888**	**.00086**	**.02350**	**.12337**
Stddev	.00030	.01415	.00091	.00043	.00029
%RSD	931.83	24.027	105.33	1.8353	.23297
#1	-.00025	.06888	.00022	.02380	.12358
#2	.00018	.04888	.00150	.02319	.12317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**29.358**	**.00013**	**-.0312**	**.00012**
Stddev	.00013	.255	.00012	.0303	.00017
%RSD	1735.6	.87008	94.293	97.24	148.29
#1	.00010	29.539	.00022	-.0526	-.00001
#2	-.00009	29.177	.00004	-.0097	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00164**	**.05015**	**1.0614**	**.01336**
Stddev	.00028	.00111	.00033	.0279	.00371
%RSD	225.39	67.667	.66625	2.6308	27.752
#1	.00032	.00242	.05038	1.0811	.01598
#2	-.00007	.00085	.04991	1.0416	.01073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d Acquired: 7/26/2017 21:24:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.355**	**.15975**	**.00009**	**98.867**	**.00171**
Stddev	.017	.00010	.00002	1.258	.00018
%RSD	.15008	.06350	20.773	1.2726	10.516
#1	11.367	.15982	.00011	99.756	.00184
#2	11.343	.15968	.00008	97.977	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**6.2427**	**-.00006**	**-.00068**	**5.0358**
Stddev	.00117	.0123	.00109	.00027	.0197
%RSD	194.70	.19686	1815.7	40.378	.39139
#1	.00142	6.2514	.00071	-.00087	5.0497
#2	-.00023	6.2340	-.00083	-.00048	5.0219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.17926**	**.00088**	**.00157**	**-.00012**
Stddev	.00023	.00181	.00028	.00087	.00004
%RSD	143.71	1.0120	31.418	55.256	29.400
#1	-.00032	.18054	.00069	.00096	-.00009
#2	.00000	.17797	.00108	.00218	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d Acquired: 7/26/2017 21:24:17 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00230**
Stddev	.00022
%RSD	9.6370
#1	.00246
#2	.00214
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3400.3**	**2348.2**	**16585.**	**3160.2**
Stddev	6.9	3.1	35.	39.0
%RSD	.20402	.13297	.21248	1.2327
#1	3405.2	2350.4	16560.	3132.6
#2	3395.4	2346.0	16610.	3187.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.190%	97.432%	96.251%	99.223%
Range				

Sample Name: 480-121588-e-5-dPDS Acquired: 7/26/2017 21:27:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09716	9.9487	.39572	.22667	.32876
Stddev	.00039	.0568	.00390	.00042	.00065
%RSD	.40155	.57101	.98483	.18667	.19641
#1	.09743	9.9086	.39848	.22637	.32922
#2	.09688	9.9889	.39296	.22697	.32831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.41467	48.029	.41884	-.0462	.39338
Stddev	.00229	.291	.00035	.0188	.00012
%RSD	.55285	.60544	.08330	40.80	.03149
#1	.41305	47.823	.41860	-.0328	.39329
#2	.41629	48.234	.41909	-.0595	.39347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.39318	.43467	19.920	11.537	.21938
Stddev	.00041	.00077	.073	.005	.00035
%RSD	.10467	.17636	.36618	.04745	.16154
#1	.39347	.43413	19.869	11.541	.21963
#2	.39289	.43522	19.972	11.533	.21913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dPDS Acquired: 7/26/2017 21:27:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.678**	**.57149**	**.39146**	**106.15**	**.40290**
Stddev	.105	.00110	.00029	.34	.00044
%RSD	.33045	.19279	.07465	.31837	.10828
#1	31.753	.57227	.39125	105.91	.40259
#2	31.604	.57072	.39166	106.39	.40320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40761**	**16.096**	**.42211**	**.40649**	**5.0080**
Stddev	.00009	.011	.00205	.00298	.0350
%RSD	.02274	.06806	.48478	.73409	.69927
#1	.40767	16.088	.42066	.40860	4.9832
#2	.40754	16.103	.42356	.40438	5.0328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.37375**	**.39478**	**.39677**	**.40420**
Stddev	.00009	.00220	.00145	.00119	.00011
%RSD	13.323	.58746	.36787	.30004	.02755
#1	-.00076	.37220	.39581	.39762	.40412
#2	-.00063	.37530	.39376	.39593	.40428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dPDS Acquired: 7/26/2017 21:27:42 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.40706**
Stddev	.00325
%RSD	.79720
#1	.40935
#2	.40477
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3298.6**	**2338.3**	**16458.**	**3155.5**
Stddev	.5	3.0	33.	8.2
%RSD	.01611	.12932	.19882	.25836
#1	3298.3	2340.4	16435.	3161.3
#2	3299.0	2336.2	16481.	3149.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.465%	97.020%	95.515%	99.077%
Range				

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/26/2017 21:30:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.04779**	**-.00049**	**.00788**	**.02508**
Stddev	.00057	.01288	.00127	.00001	.00001
%RSD	361.59	26.949	260.93	.16321	.05950
#1	.00025	.05690	.00041	.00789	.02509
#2	-.00056	.03868	-.00139	.00787	.02507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**5.9994**	**.00003**	**-.0120**	**-.00009**
Stddev	.00001	.0586	.00005	.0254	.00007
%RSD	12.756	.97642	165.09	212.6	76.458
#1	-.00008	6.0409	.00007	-.0299	-.00014
#2	-.00007	5.9580	-.00001	.0060	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00017**	**.01144**	**.22008**	**.00196**
Stddev	.00006	.00043	.00250	.02802	.00274
%RSD	76.747	251.36	21.874	12.731	139.90
#1	.00004	-.00048	.00967	.23989	.00389
#2	.00012	.00013	.01321	.20027	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/26/2017 21:30:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2670**	**.03235**	**-.00002**	**19.561**	**-.00006**
Stddev	.0067	.00002	.00012	.194	.00039
%RSD	.29449	.06596	688.58	.99328	612.20
#1	2.2622	.03233	.00007	19.699	.00021
#2	2.2717	.03236	-.00010	19.424	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**1.1979**	**.00080**	**.00055**	**1.0397**
Stddev	.00091	.0017	.00051	.00140	.0189
%RSD	158.37	.13765	63.371	253.90	1.8182
#1	-.00007	1.1967	.00116	.00154	1.0263
#2	.00122	1.1990	.00044	-.00044	1.0531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.03621**	**.00059**	**.00068**	**.00023**
Stddev	.00005	.00058	.00028	.00156	.00065
%RSD	14.791	1.5951	46.796	227.93	281.34
#1	-.00027	.03662	.00039	.00179	-.00023
#2	-.00034	.03580	.00078	-.00042	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/26/2017 21:30:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00259
Stddev	.00017
%RSD	6.6031
#1	.00247
#2	.00271
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3590.2	2364.1	16809.	3076.9
Stddev	3.0	3.8	27.	18.8
%RSD	.08451	.16235	.16139	.61171
#1	3592.4	2366.8	16790.	3063.6
#2	3588.1	2361.4	16828.	3090.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.284%	98.089%	97.554%	96.607%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 21:34:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49883**	**25.606**	**.50236**	**.52912**	**.53253**
Stddev	.00386	.000	.00072	.00188	.00065
%RSD	.77394	.00149	.14292	.35488	.12231
#1	.49610	25.606	.50287	.53045	.53299
#2	.50156	25.605	.50186	.52779	.53207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53080**	**25.382**	**.52615**	**-.0404**	**.51315**
Stddev	.00091	.025	.00180	.0238	.00004
%RSD	.17100	.09776	.34274	59.02	.00848
#1	.53016	25.364	.52742	-.0235	.51318
#2	.53144	25.400	.52487	-.0572	.51311
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50597**	F **.55636**	**24.888**	F **27.725**	**.53926**
Stddev	.00257	.00004	.004	.003	.00437
%RSD	.50789	.00710	.01684	.01113	.81088
#1	.50416	.55638	24.891	27.727	.54236
#2	.50779	.55633	24.885	27.723	.53617
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value		.50000		25.000	
Range		10.000%		10.000%	

Sample Name: CCV-4147885 Acquired: 7/26/2017 21:34:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.229**	**.54336**	**.51283**	**26.786**	**.52257**
Stddev	.010	.00023	.00042	.003	.00047
%RSD	.03878	.04164	.08223	.01136	.09051
#1	26.236	.54352	.51312	26.783	.52291
#2	26.222	.54320	.51253	26.788	.52224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51170**	**25.944**	**.52551**	**.50997**	**24.603**
Stddev	.00338	.086	.00325	.00376	.057
%RSD	.66034	.33179	.61899	.73719	.23179
#1	.51409	26.005	.52781	.50732	24.563
#2	.50931	25.883	.52321	.51263	24.643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52435**	**.51212**	**.50833**	**.50973**	**.51024**
Stddev	.00030	.00097	.00184	.00003	.00142
%RSD	.05642	.18931	.36233	.00668	.27744
#1	.52414	.51280	.50703	.50976	.50924
#2	.52456	.51143	.50964	.50971	.51124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 21:34:25 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50776**
Stddev	.00020
%RSD	.03852
#1	.50763
#2	.50790
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3368.1**	**2349.7**	**16660.**	**3102.4**
Stddev	5.9	2.2	39.	10.5
%RSD	.17449	.09322	.23388	.33816
#1	3372.3	2351.2	16688.	3095.0
#2	3364.0	2348.1	16632.	3109.8

Sample Name: CCB-4130963 Acquired: 7/26/2017 21:37:38 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.03872**	**.00163**	**.00101**	**.00003**
Stddev	.00106	.00765	.00140	.00004	.00001
%RSD	1367.8	19.755	85.765	3.9060	34.409
#1	.00083	.03331	.00064	.00104	.00004
#2	-.00067	.04413	.00262	.00098	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00173**	**-.00016**	**-.0020**	**-.00009**
Stddev	.00001	.00371	.00008	.0094	.00010
%RSD	201.64	214.43	48.923	462.9	121.52
#1	-.00001	-.00089	-.00022	.0046	-.00016
#2	.00000	.00435	-.00011	-.0087	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00056**	**.00193**	**.05787**	**-.00183**
Stddev	.00014	.00063	.00080	.01894	.00026
%RSD	427.79	112.82	41.739	32.725	14.160
#1	.00013	.00100	.00250	.07126	-.00165
#2	-.00006	.00011	.00136	.04448	-.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 21:37:38 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00814**	**.00000**	**.00008**	**.00815**	**-.00001**
Stddev	.00214	.00002	.00003	.00597	.00020
%RSD	26.330	518.15	39.502	73.216	3401.9
#1	.00663	-.00001	.00010	.00393	.00014
#2	.00966	.00001	.00006	.01238	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00453**	**.00097**	**.00146**	**.03109**
Stddev	.00070	.00147	.00078	.00185	.00123
%RSD	210.70	32.510	80.534	126.94	3.9609
#1	.00082	.00349	.00153	.00015	.03196
#2	-.00016	.00557	.00042	.00276	.03022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00000**	**.00002**	**.00176**	**.00007**
Stddev	.00018	.00006	.00101	.00061	.00025
%RSD	45.918	1792.7	4887.7	34.439	331.78
#1	.00027	.00004	.00074	.00219	-.00010
#2	.00052	-.00005	-.00070	.00133	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 21:37:38 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00069
Stddev	.00018
%RSD	25.782
#1	.00057
#2	.00082
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3685.2	2374.0	16959.	3053.2
Stddev	.7	1.2	24.	7.7
%RSD	.01902	.04863	.14339	.25107
#1	3685.7	2373.2	16977.	3047.8
#2	3684.7	2374.8	16942.	3058.7

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:41:06 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00557**	**.23063**	**.01447**	**.02106**	**.00224**
Stddev	.00110	.00571	.00105	.00008	.00001
%RSD	19.674	2.4775	7.2640	.37280	.33705
#1	.00634	.23467	.01522	.02111	.00224
#2	.00479	.22659	.01373	.02100	.00225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.49631**	**.00225**	**-.0280**	**.00393**
Stddev	.00009	.00117	.00013	.0019	.00014
%RSD	4.1529	.23626	5.6124	6.955	3.5202
#1	.00213	.49714	.00234	-.0266	.00403
#2	.00201	.49548	.00216	-.0294	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**.01122**	**.04990**	**.56610**	**.02979**
Stddev	.00026	.00059	.00041	.01432	.00005
%RSD	6.5470	5.2240	.82580	2.5289	.15794
#1	.00379	.01163	.05019	.57622	.02982
#2	.00415	.01080	.04961	.55597	.02975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:41:06 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21333**	**.00317**	**.00976**	**1.0515**	**.00999**
Stddev	.00340	.00001	.00009	.0024	.00062
%RSD	1.5951	.16794	.91593	.22396	6.2198
#1	.21574	.00318	.00982	1.0499	.01043
#2	.21092	.00317	.00970	1.0532	.00956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01021**	**.19960**	**.01990**	**.02442**	**.49029**
Stddev	.00138	.00236	.00096	.00132	.01968
%RSD	13.541	1.1838	4.8082	5.3945	4.0144
#1	.01119	.19793	.02058	.02349	.50421
#2	.00923	.20127	.01923	.02535	.47637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00937**	**.00499**	**.00478**	**.02157**	**.00504**
Stddev	.00000	.00004	.00010	.00045	.00020
%RSD	.00022	.77909	2.0842	2.0869	3.8988
#1	.00937	.00502	.00470	.02125	.00518
#2	.00937	.00496	.00485	.02189	.00490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 21:41:06 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01106
Stddev	.00060
%RSD	5.4593
#1	.01148
#2	.01063
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3730.4	2413.7	17160.	3081.4
Stddev	4.8	2.4	12.	14.9
%RSD	.12755	.09795	.07082	.48408
#1	3733.7	2415.3	17169.	3070.9
#2	3727.0	2412.0	17152.	3092.0

Sample Name: 480-121588-e-5-e ms Acquired: 7/26/2017 21:44:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04461**	**10.403**	**.19260**	**.22536**	**.33317**
Stddev	.00022	.059	.00079	.00052	.00144
%RSD	.49688	.56597	.41035	.22955	.43304
#1	.04445	10.361	.19205	.22573	.33215
#2	.04476	10.445	.19316	.22500	.33419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20315**	**40.502**	**.20286**	**-.0139**	**.19151**
Stddev	.00155	.277	.00002	.0480	.00017
%RSD	.76459	.68420	.00995	345.4	.08712
#1	.20205	40.306	.20288	.0201	.19140
#2	.20425	40.698	.20285	-.0479	.19163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18586**	**.21705**	**10.164**	**11.754**	**.21703**
Stddev	.00089	.00032	.083	.092	.00110
%RSD	.47873	.14763	.81505	.78170	.50845
#1	.18649	.21682	10.106	11.689	.21625
#2	.18523	.21728	10.223	11.819	.21781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-e ms Acquired: 7/26/2017 21:44:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.124**	**.45387**	**.19216**	**110.68**	**.19998**
Stddev	.116	.00182	.00000	.24	.00047
%RSD	.52221	.40168	.00135	.21959	.23450
#1	22.042	.45258	.19216	110.51	.19965
#2	22.205	.45516	.19216	110.85	.20031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19981**	**16.306**	**.20012**	**.19682**	**15.385**
Stddev	.00082	.019	.00067	.00342	.137
%RSD	.41267	.11500	.33414	1.7380	.89034
#1	.19923	16.319	.19964	.19440	15.288
#2	.20039	16.293	.20059	.19924	15.482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20143**	**.37413**	**.19670**	**.19012**	**.19424**
Stddev	.00055	.00181	.00205	.00087	.00049
%RSD	.27202	.48378	1.0424	.45509	.25227
#1	.20104	.37285	.19525	.18951	.19389
#2	.20182	.37541	.19815	.19073	.19458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-e ms Acquired: 7/26/2017 21:44:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.19751
Stddev	.00120
%RSD	.60823
#1	.19666
#2	.19836
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3327.0	2356.9	16585.	3122.3
Stddev	2.1	1.1	19.	41.4
%RSD	.06360	.04768	.11729	1.3249
#1	3325.5	2356.1	16599.	3151.5
#2	3328.5	2357.7	16571.	3093.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.225%	97.791%	96.252%	98.032%
Range				

Sample Name: 480-121588-e-5-f msd Acquired: 7/26/2017 21:47:50 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04627**	**10.487**	**.19391**	**.22837**	**.33455**
Stddev	.00016	.045	.00017	.00051	.00057
%RSD	.35283	.43051	.08578	.22431	.17065
#1	.04616	10.455	.19402	.22801	.33495
#2	.04639	10.519	.19379	.22873	.33414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20352**	**40.489**	**.20496**	**-.0329**	**.19323**
Stddev	.00056	.076	.00003	.0309	.00019
%RSD	.27445	.18823	.01492	93.85	.09822
#1	.20391	40.542	.20498	-.0111	.19337
#2	.20312	40.435	.20493	-.0548	.19310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18964**	**.21611**	**10.189**	**11.733**	**.21881**
Stddev	.00136	.00037	.091	.077	.00121
%RSD	.71486	.16942	.89668	.65339	.55509
#1	.19059	.21637	10.254	11.788	.21967
#2	.18868	.21586	10.124	11.679	.21796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-f msd Acquired: 7/26/2017 21:47:50 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.230**	**.45428**	**.19505**	**110.00**	**.20106**
Stddev	.007	.00023	.00070	.80	.00071
%RSD	.03350	.05101	.35657	.72467	.35066
#1	22.235	.45412	.19554	110.57	.20156
#2	22.225	.45445	.19455	109.44	.20057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20266**	**16.471**	**.20204**	**.19798**	**15.351**
Stddev	.00077	.007	.00043	.00461	.067
%RSD	.37775	.04076	.21381	2.3267	.43564
#1	.20320	16.476	.20234	.20123	15.399
#2	.20212	16.466	.20173	.19472	15.304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20328**	**.37752**	**.19897**	**.19318**	**.19741**
Stddev	.00072	.00018	.00055	.00227	.00066
%RSD	.35555	.04655	.27440	1.1749	.33260
#1	.20380	.37764	.19936	.19478	.19787
#2	.20277	.37739	.19858	.19157	.19694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-f msd Acquired: 7/26/2017 21:47:50 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20043**
Stddev	.00068
%RSD	.33694
#1	.20091
#2	.19995
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3312.1**	**2344.4**	**16518.**	**3148.0**
Stddev	2.5	4.4	11.	4.2
%RSD	.07450	.18822	.06530	.13385
#1	3313.8	2347.5	16511.	3145.0
#2	3310.3	2341.2	16526.	3151.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.825%	97.271%	95.865%	98.839%
Range				

Sample Name: 480-121588-e-6-b Acquired: 7/26/2017 21:51:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.86768**	**.00263**	**.02963**	**.07447**
Stddev	.00037	.01905	.00036	.00081	.00019
%RSD	1015.9	2.1951	13.633	2.7381	.25154
#1	-.00022	.88115	.00237	.03020	.07434
#2	.00029	.85422	.00288	.02906	.07461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**20.443**	**.00020**	**-.0237**	**.00050**
Stddev	.00006	.066	.00008	.0392	.00010
%RSD	251.75	.32461	41.553	165.4	20.511
#1	.00002	20.396	.00025	-.0514	.00042
#2	-.00007	20.490	.00014	.0040	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00267**	**.01371**	**.83222**	**2.1689**	**.00867**
Stddev	.00043	.00020	.00279	.0472	.00079
%RSD	16.127	1.4930	.33480	2.1778	9.1450
#1	.00297	.01385	.83419	2.2023	.00923
#2	.00236	.01356	.83025	2.1355	.00811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-6-b Acquired: 7/26/2017 21:51:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4787**	**.36840**	**.00193**	**13.292**	**.00303**
Stddev	.0300	.00229	.00003	.018	.00018
%RSD	.40167	.62045	1.6009	.13748	5.9693
#1	7.4574	.36678	.00190	13.305	.00290
#2	7.4999	.37002	.00195	13.279	.00315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00349**	**7.4229**	**-.00020**	**.00271**	**7.9021**
Stddev	.00017	.0081	.00083	.00268	.0623
%RSD	4.8409	.10867	410.02	98.659	.78771
#1	.00361	7.4172	.00038	.00460	7.8581
#2	.00337	7.4287	-.00079	.00082	7.9461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.08738**	**.02220**	**.00129**	**.00184**
Stddev	.00016	.00021	.00100	.00097	.00037
%RSD	281.39	.24159	4.5057	75.214	19.852
#1	.00006	.08723	.02291	.00197	.00210
#2	-.00017	.08753	.02149	.00060	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-6-b Acquired: 7/26/2017 21:51:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01204**
Stddev	.00047
%RSD	3.9377
#1	.01170
#2	.01237
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3631.8**	**2420.1**	**17182.**	**3199.0**
Stddev	11.7	7.4	122.	1.8
%RSD	.32281	.30527	.70733	.05570
#1	3640.1	2425.4	17268.	3197.7
#2	3623.5	2414.9	17097.	3200.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.400%	100.42%	99.720%	100.44%
Range				

Sample Name: 480-121588-e-7-b Acquired: 7/26/2017 21:54:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.20149**	**.00121**	**.01938**	**.15744**
Stddev	.00022	.01312	.00060	.00033	.00042
%RSD	22.518	6.5125	49.357	1.7075	.26485
#1	-.00113	.21077	.00079	.01962	.15774
#2	-.00082	.19221	.00164	.01915	.15715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**29.259**	**.00007**	**-.0224**	**.00009**
Stddev	.00007	.109	.00004	.0187	.00013
%RSD	96.353	.37286	59.999	83.63	145.80
#1	-.00002	29.336	.00004	-.0092	-.00000
#2	-.00013	29.182	.00010	-.0357	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00027**	**.21235**	**1.0177**	**.00640**
Stddev	.00017	.00057	.00332	.0379	.00131
%RSD	63.072	211.77	1.5626	3.7213	20.402
#1	.00038	.00068	.21469	.99091	.00547
#2	.00015	-.00013	.21000	1.0445	.00732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-7-b Acquired: 7/26/2017 21:54:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.779**	**.14744**	**.00014**	**107.13**	**.00140**
Stddev	.045	.00018	.00024	.09	.00001
%RSD	.42161	.12065	171.70	.08254	.87092
#1	10.811	.14757	.00031	107.20	.00139
#2	10.747	.14732	-.00003	107.07	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**5.9161**	**-.00000**	**.00242**	**4.0423**
Stddev	.00182	.0217	.00051	.00039	.0243
%RSD	134.81	.36732	13919.	16.201	.60117
#1	.00263	5.9007	-.00037	.00269	4.0595
#2	.00006	5.9315	.00036	.00214	4.0251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.18844**	**.00318**	**.00074**	**-.00050**
Stddev	.00027	.00042	.00062	.00004	.00011
%RSD	152.96	.22240	19.374	4.7022	21.321
#1	-.00037	.18873	.00274	.00077	-.00058
#2	.00001	.18814	.00361	.00072	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-7-b Acquired: 7/26/2017 21:54:29 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01349**
Stddev	.00015
%RSD	1.1180
#1	.01338
#2	.01359
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3395.0**	**2351.4**	**16582.**	**3141.5**
Stddev	5.3	5.1	27.	4.2
%RSD	.15615	.21641	.16565	.13490
#1	3398.8	2355.0	16563.	3144.5
#2	3391.3	2347.8	16602.	3138.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.050%	97.563%	96.237%	98.636%
Range				

Sample Name: 480-121588-e-8-b Acquired: 7/26/2017 21:57:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.03676**	**.00107**	**.00542**	**.00021**
Stddev	.00007	.00285	.00044	.00017	.00003
%RSD	16.129	7.7425	41.573	3.1245	14.942
#1	-.00037	.03877	.00138	.00530	.00023
#2	-.00047	.03475	.00075	.00554	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.06798**	**.00004**	**-.0292**	**.00001**
Stddev	.00008	.00051	.00005	.0111	.00007
%RSD	189.72	.75048	151.49	38.10	690.06
#1	-.00009	.06834	-.00000	-.0213	.00006
#2	.00001	.06762	.00007	-.0371	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00034**	**.00270**	**.09716**	**.00072**
Stddev	.00030	.00034	.00170	.05432	.00004
%RSD	201.21	100.66	63.146	55.907	4.8533
#1	-.00006	.00059	.00390	.13557	.00070
#2	.00036	.00010	.00149	.05875	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-8-b Acquired: 7/26/2017 21:57:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00728**	**.00102**	**-.00008**	**.01577**	**-.00010**
Stddev	.00245	.00001	.00007	.00121	.00025
%RSD	33.614	.64890	79.929	7.6785	246.07
#1	.00901	.00101	-.00004	.01491	.00007
#2	.00555	.00102	-.00013	.01662	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.00917**	**-.00045**	**.00300**	**.00756**
Stddev	.00072	.00318	.00031	.00031	.01644
%RSD	75.878	34.667	67.911	10.439	217.40
#1	.00044	.00693	-.00067	.00278	-.00406
#2	.00145	.01142	-.00024	.00323	.01919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00024**	**.00013**	**.00090**	**.00032**
Stddev	.00007	.00006	.00064	.00038	.00044
%RSD	12.534	23.340	486.20	42.500	138.49
#1	-.00054	.00028	.00059	.00117	.00001
#2	-.00064	.00020	-.00032	.00063	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-8-b Acquired: 7/26/2017 21:57:54 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00130**
Stddev	.00014
%RSD	10.898
#1	.00140
#2	.00120
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3793.8**	**2436.5**	**17401.**	**3161.0**
Stddev	4.9	2.1	106.	9.2
%RSD	.13034	.08637	.61025	.29126
#1	3797.3	2438.0	17476.	3167.5
#2	3790.3	2435.0	17326.	3154.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.74%	101.09%	100.99%	99.249%
Range				

Sample Name: 480-121599-c-3-b Acquired: 7/26/2017 22:01:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**.09610**	**.00143**	**.01492**	**.15234**
Stddev	.00022	.00777	.00056	.00010	.00023
%RSD	35.829	8.0892	39.332	.70245	.15341
#1	-.00076	.09061	.00182	.01499	.15217
#2	-.00045	.10160	.00103	.01484	.15250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**24.830**	**-.00010**	**-.0158**	**-.00007**
Stddev	.00006	.087	.00007	.0381	.00003
%RSD	69.247	.34893	69.106	241.4	41.293
#1	.00012	24.891	-.00005	-.0428	-.00005
#2	.00004	24.769	-.00014	.0112	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.00539**	**.15845**	**3.2141**	**.00285**
Stddev	.00063	.00051	.00565	.0038	.00287
%RSD	30.266	9.4017	3.5648	.11697	100.66
#1	.00164	.00575	.16245	3.2168	.00082
#2	.00253	.00503	.15446	3.2115	.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121599-c-3-b Acquired: 7/26/2017 22:01:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2710**	**.00557**	**-.00012**	**3.6482**	**.00107**
Stddev	.0175	.00000	.00003	.0264	.00030
%RSD	.40915	.02179	27.355	.72449	27.664
#1	4.2586	.00557	-.00014	3.6669	.00086
#2	4.2833	.00557	-.00009	3.6295	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	**3.6400**	**.00033**	**.00211**	**5.7091**
Stddev	.00052	.0055	.00016	.00064	.0165
%RSD	21.873	.15076	48.842	30.149	.28922
#1	.00273	3.6438	.00021	.00256	5.7208
#2	.00200	3.6361	.00044	.00166	5.6974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.30385**	**.01292**	**.00026**	**.00093**
Stddev	.00033	.00089	.00035	.00092	.00032
%RSD	1414.9	.29174	2.7392	358.58	35.062
#1	-.00026	.30448	.01317	-.00039	.00116
#2	.00021	.30322	.01266	.00091	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121599-c-3-b Acquired: 7/26/2017 22:01:23 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01236
Stddev	.00070
%RSD	5.6240
#1	.01187
#2	.01285
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3659.7	2412.3	17068.	3167.8
Stddev	1.9	.6	72.	6.4
%RSD	.05198	.02690	.42029	.20129
#1	3661.0	2411.9	17118.	3163.2
#2	3658.3	2412.8	17017.	3172.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.147%	100.09%	99.054%	99.460%
Range				

Sample Name: 480-121622-b-1-a Acquired: 7/26/2017 22:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.04588**	**.00067**	**.83396**	**.16488**
Stddev	.00028	.02336	.00094	.00079	.00031
%RSD	77.044	50.915	139.48	.09495	.18589
#1	-.00055	.02936	.00001	.83452	.16509
#2	-.00016	.06239	.00134	.83340	.16466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**104.01**	**.00052**	**-.0270**	**.00265**
Stddev	.00004	.05	.00006	.0029	.00005
%RSD	80.280	.04796	11.980	10.61	2.0416
#1	-.00002	103.97	.00056	-.0250	.00261
#2	-.00008	104.04	.00047	-.0291	.00269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.00159**	**24.631**	**57.174**	**.06203**
Stddev	.00094	.00072	.004	.036	.00072
%RSD	45.633	45.467	.01718	.06356	1.1528
#1	.00271	.00108	24.634	57.148	.06153
#2	.00139	.00210	24.628	57.200	.06254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-1-a Acquired: 7/26/2017 22:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**71.729**	**.19916**	**-.00037**	**65.251**	**.01184**
Stddev	.225	.00094	.00004	.732	.00018
%RSD	.31371	.47412	9.6735	1.1212	1.5467
#1	71.888	.19982	-.00039	64.733	.01171
#2	71.570	.19849	-.00034	65.768	.01197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00437**	**1.3672**	**-.00114**	**.00064**	**8.0380**
Stddev	.00047	.0084	.00109	.00260	.0296
%RSD	10.667	.61125	95.213	407.39	.36868
#1	.00404	1.3613	-.00037	.00248	8.0170
#2	.00470	1.3731	-.00191	-.00120	8.0590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00246**	**.17199**	**.00127**	**.00094**	**.00092**
Stddev	.00106	.00046	.00028	.00017	.00001
%RSD	43.255	.26625	22.105	18.066	.76260
#1	.00321	.17167	.00108	.00082	.00093
#2	.00171	.17231	.00147	.00106	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-1-a Acquired: 7/26/2017 22:04:47 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00857
Stddev	.00037
%RSD	4.3696
#1	.00830
#2	.00883
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3239.9	2311.0	16393.	3119.7
Stddev	5.0	5.8	3.	1.7
%RSD	.15494	.25045	.01815	.05317
#1	3243.5	2315.1	16391.	3118.5
#2	3236.4	2306.9	16395.	3120.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.889%	95.888%	95.140%	97.951%
Range				

Sample Name: 480-121622-b-2-a Acquired: 7/26/2017 22:08:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00238**	**.06719**	**.00234**	**.55448**	**.45206**
Stddev	.00240	.00871	.00010	.00154	.00171
%RSD	100.57	12.959	4.4639	.27764	.37731
#1	.00408	.06103	.00226	.55339	.45086
#2	.00069	.07334	.00241	.55557	.45327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**160.04**	**.00024**	**-.0061**	**.00181**
Stddev	.00002	.16	.00002	.0423	.00013
%RSD	21.497	.09724	10.287	696.3	7.3176
#1	-.00010	160.15	.00025	.0238	.00172
#2	-.00008	159.93	.00022	-.0360	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00624**	**26.722**	**41.631**	**.00636**
Stddev	.00050	.00106	.024	.051	.00063
%RSD	40.592	16.927	.09098	.12333	9.8784
#1	.00159	.00699	26.705	41.667	.00681
#2	.00088	.00549	26.739	41.595	.00592
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-2-a Acquired: 7/26/2017 22:08:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**85.032**	**.12691**	**.00086**	**43.200**	**.00599**
Stddev	.348	.00084	.00006	.112	.00032
%RSD	.40916	.65977	6.5143	.25882	5.2789
#1	84.786	.12632	.00082	43.279	.00621
#2	85.278	.12751	.00090	43.121	.00576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00241**	**1.1728**	**-.00145**	**-.00302**	**10.742**
Stddev	.00070	.0034	.00098	.00293	.035
%RSD	29.244	.29186	67.215	96.950	.32268
#1	.00191	1.1704	-.00214	-.00095	10.766
#2	.00291	1.1752	-.00076	-.00509	10.717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00152**	**.45753**	**.00163**	**.00168**	**.00023**
Stddev	.00031	.00213	.00022	.00079	.00015
%RSD	20.382	.46500	13.441	47.197	64.184
#1	.00174	.45903	.00179	.00225	.00012
#2	.00130	.45603	.00148	.00112	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-2-a Acquired: 7/26/2017 22:08:11 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01954
Stddev	.00108
%RSD	5.5231
#1	.02030
#2	.01877
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3198.9	2288.7	16292.	3108.3
Stddev	6.5	6.8	63.	28.7
%RSD	.20192	.29763	.38442	.92252
#1	3203.5	2293.5	16337.	3128.6
#2	3194.3	2283.9	16248.	3088.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.790%	94.962%	94.554%	97.595%
Range				

Sample Name: 480-121622-b-3-a Acquired: 7/26/2017 22:11:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.05935**	**.00402**	**2.2941**	**.01727**
Stddev	.00090	.00662	.00099	.0001	.00002
%RSD	158.60	11.153	24.722	.00216	.12518
#1	.00007	.05467	.00332	2.2940	.01728
#2	-.00121	.06403	.00472	2.2941	.01725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**8.8004**	**.00030**	**-.0359**	**.00882**
Stddev	.00003	.0295	.00015	.0219	.00009
%RSD	32.132	.33512	49.619	60.89	1.0598
#1	-.00010	8.8213	.00040	-.0514	.00876
#2	-.00006	8.7796	.00019	-.0204	.00889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00250**	**.00348**	**12.123**	**174.59**	**.00822**
Stddev	.00079	.00004	.064	1.32	.00047
%RSD	31.394	1.2017	.52959	.75419	5.7555
#1	.00306	.00351	12.169	175.52	.00855
#2	.00195	.00345	12.078	173.66	.00788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-3-a Acquired: 7/26/2017 22:11:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**96.784**	**.06466**	**.00061**	**379.84**	**.02648**
Stddev	.280	.00038	.00013	1.86	.00055
%RSD	.28893	.58131	21.937	.49065	2.0585
#1	96.982	.06492	.00051	381.15	.02686
#2	96.586	.06439	.00070	378.52	.02609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**2.7321**	**.00259**	**.00365**	**1.2795**
Stddev	.00114	.0072	.00012	.00704	.0050
%RSD	95.374	.26513	4.4789	192.84	.39448
#1	.00200	2.7372	.00251	-.00133	1.2830
#2	.00039	2.7269	.00267	.00862	1.2759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00314**	**.09814**	**.00160**	**.00094**	**-.00046**
Stddev	.00024	.00032	.00005	.00026	.00030
%RSD	7.7851	.32758	3.0553	27.700	65.652
#1	.00297	.09837	.00164	.00075	-.00025
#2	.00331	.09791	.00157	.00112	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-3-a Acquired: 7/26/2017 22:11:34 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01545**
Stddev	.00067
%RSD	4.3480
#1	.01593
#2	.01498
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3057.7**	**2257.9**	**15835.**	**3139.2**
Stddev	2.2	2.9	48.	6.2
%RSD	.07127	.12891	.30524	.19742
#1	3059.3	2259.9	15801.	3143.6
#2	3056.2	2255.8	15869.	3134.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.004%	93.683%	91.900%	98.563%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:15:04 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50072**	**25.586**	**.49642**	**.53343**	**.53320**
Stddev	.00468	.107	.00530	.00055	.00190
%RSD	.93525	.41865	1.0669	.10218	.35594
#1	.49741	25.510	.49268	.53304	.53186
#2	.50403	25.662	.50017	.53381	.53454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53048**	**25.337**	**.52593**	**-.0184**	**.51285**
Stddev	.00203	.048	.00132	.0055	.00101
%RSD	.38199	.18973	.25119	30.06	.19750
#1	.52905	25.303	.52500	-.0223	.51213
#2	.53192	25.371	.52686	-.0145	.51357
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50850**	F **.56047**	**24.660**	F **27.607**	**.54101**
Stddev	.00122	.00125	.093	.141	.00235
%RSD	.23928	.22256	.37525	.51200	.43430
#1	.50764	.56135	24.594	27.508	.53935
#2	.50936	.55959	24.725	27.707	.54267
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value		.50000		25.000	
Range		10.000%		10.000%	

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:15:04 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.261**	**.54596**	**.51009**	**26.720**	**.52237**
Stddev	.102	.00202	.00054	.118	.00101
%RSD	.39020	.36960	.10660	.44146	.19283
#1	26.189	.54453	.50971	26.637	.52166
#2	26.334	.54739	.51048	26.804	.52308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50908**	**25.962**	**.52877**	**.51082**	**24.521**
Stddev	.00111	.060	.00089	.00275	.076
%RSD	.21761	.22961	.16820	.53761	.31081
#1	.50986	25.920	.52814	.51276	24.468
#2	.50830	26.004	.52940	.50888	24.575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52193**	**.51145**	**.50878**	**.50488**	**.51221**
Stddev	.00013	.00165	.00050	.00051	.00171
%RSD	.02415	.32165	.09872	.10173	.33338
#1	.52184	.51029	.50843	.50524	.51101
#2	.52202	.51262	.50914	.50452	.51342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:15:04 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51122
Stddev	.00343
%RSD	.67035
#1	.50880
#2	.51365
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3358.9	2342.2	16461.	3094.0
Stddev	1.8	.1	123.	17.2
%RSD	.05350	.00399	.74787	.55640
#1	3357.6	2342.3	16548.	3106.2
#2	3360.1	2342.2	16374.	3081.8

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:18:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01332**	**-.00044**	**.00305**	**.00004**
Stddev	.00079	.00418	.00037	.00024	.00002
%RSD	1138.2	31.348	85.025	7.9598	42.026
#1	.00049	.01628	-.00070	.00322	.00005
#2	-.00063	.01037	-.00018	.00288	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00081**	**.00003**	**-.0184**	**-.00009**
Stddev	.00001	.00348	.00015	.0286	.00005
%RSD	56.810	431.83	490.71	155.4	52.358
#1	-.00003	-.00327	.00013	.0018	-.00006
#2	-.00001	.00166	-.00007	-.0386	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00005**	**.00303**	**.11721**	**.00153**
Stddev	.00028	.00008	.00050	.01290	.00169
%RSD	335.18	158.39	16.540	11.008	110.70
#1	-.00028	-.00010	.00338	.12633	.00273
#2	.00012	.00001	.00267	.10809	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:18:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00429**	**-.00000**	**.00009**	**.01943**	**.00012**
Stddev	.00196	.00001	.00022	.00605	.00002
%RSD	45.664	326.16	237.46	31.145	19.804
#1	.00568	.00000	.00025	.02371	.00014
#2	.00291	-.00001	-.00006	.01515	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00342**	**-.00015**	**.00035**	**.02436**
Stddev	.00111	.00081	.00053	.00059	.01200
%RSD	18588.	23.672	366.17	166.84	49.248
#1	-.00079	.00399	-.00052	-.00006	.01588
#2	.00078	.00285	.00023	.00077	.03284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.00007**	**-.00027**	**.00101**	**-.00009**
Stddev	.00033	.00005	.00006	.00068	.00025
%RSD	101.10	75.676	21.713	67.573	280.39
#1	-.00009	-.00011	-.00023	.00149	.00009
#2	-.00057	-.00003	-.00032	.00053	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:18:17 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00112
Stddev	.00035
%RSD	30.840
#1	.00088
#2	.00137
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3677.6	2369.2	16827.	3066.1
Stddev	7.6	6.5	119.	24.9
%RSD	.20690	.27460	.70512	.81279
#1	3672.2	2364.6	16743.	3048.5
#2	3683.0	2373.8	16911.	3083.7

Sample Name: CCVL-4147888 Acquired: 7/26/2017 22:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00604**	**.21382**	**.01336**	**.02201**	**.00223**
Stddev	.00004	.00700	.00088	.00024	.00002
%RSD	.64652	3.2729	6.5590	1.1056	.69656
#1	.00606	.20887	.01274	.02183	.00225
#2	.00601	.21877	.01398	.02218	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49213**	**.00214**	**-.0398**	**.00384**
Stddev	.00010	.00334	.00009	.0433	.00003
%RSD	5.2747	.67866	4.3893	108.8	.70399
#1	.00200	.49449	.00208	-.0092	.00382
#2	.00186	.48976	.00221	-.0704	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.01089**	**.05093**	**.59665**	**.03234**
Stddev	.00004	.00017	.00457	.03568	.00041
%RSD	.87412	1.6029	8.9775	5.9805	1.2528
#1	.00451	.01077	.04770	.57142	.03205
#2	.00445	.01102	.05417	.62188	.03263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 22:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21030**	**.00311**	**.00995**	**1.0377**	**.01014**
Stddev	.00078	.00009	.00013	.0052	.00064
%RSD	.36899	2.7714	1.3393	.49938	6.3053
#1	.21084	.00305	.01005	1.0414	.01059
#2	.20975	.00317	.00986	1.0340	.00969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01011**	**.19711**	**.02139**	**.02532**	**.50443**
Stddev	.00010	.00125	.00169	.00158	.00810
%RSD	.97741	.63513	7.9096	6.2255	1.6052
#1	.01018	.19623	.02020	.02421	.49870
#2	.01004	.19800	.02259	.02644	.51016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00896**	**.00497**	**.00485**	**.02034**	**.00451**
Stddev	.00003	.00004	.00005	.00117	.00035
%RSD	.34365	.85697	1.0992	5.7303	7.8033
#1	.00894	.00494	.00481	.02117	.00475
#2	.00898	.00500	.00489	.01952	.00426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 22:21:46 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01093
Stddev	.00050
%RSD	4.5909
#1	.01057
#2	.01128
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3712.7	2399.2	17121.	3094.7
Stddev	3.2	2.4	14.	4.9
%RSD	.08739	.09817	.08078	.15766
#1	3715.0	2400.9	17131.	3098.2
#2	3710.4	2397.6	17111.	3091.3

Sample Name: 480-121622-b-4-a Acquired: 7/26/2017 22:25:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.06811**	**.00118**	**.84595**	**.07376**
Stddev	.00202	.02310	.00087	.00017	.00016
%RSD	824.86	33.919	73.865	.02065	.21702
#1	-.00167	.08444	.00056	.84582	.07364
#2	.00118	.05177	.00179	.84607	.07387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**90.824**	**.00025**	**-.0226**	**.00235**
Stddev	.00003	.130	.00002	.0507	.00010
%RSD	21.592	.14335	8.1592	224.2	4.3157
#1	-.00012	90.916	.00027	.0132	.00242
#2	-.00016	90.732	.00024	-.0584	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**.00735**	**30.518**	**42.907**	**.20693**
Stddev	.00008	.00045	.090	.156	.00041
%RSD	3.1631	6.1018	.29609	.36291	.19779
#1	.00256	.00703	30.582	43.017	.20665
#2	.00245	.00767	30.454	42.797	.20722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-4-a Acquired: 7/26/2017 22:25:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.189**	**.14724**	**.00048**	**47.172**	**.01051**
Stddev	.140	.00018	.00017	.026	.00015
%RSD	.20569	.11888	35.296	.05528	1.3866
#1	68.090	.14712	.00036	47.190	.01041
#2	68.288	.14736	.00060	47.153	.01062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00463**	**1.2634**	**.00067**	**.00298**	**7.5790**
Stddev	.00089	.0042	.00103	.00125	.0224
%RSD	19.323	.32890	152.07	41.906	.29580
#1	.00526	1.2664	-.00005	.00387	7.5949
#2	.00399	1.2605	.00140	.00210	7.5632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00231**	**.12970**	**.00201**	**.00112**	**.00074**
Stddev	.00015	.00021	.00003	.00122	.00052
%RSD	6.3837	.16528	1.3051	108.39	70.833
#1	.00221	.12985	.00202	.00026	.00037
#2	.00242	.12955	.00199	.00198	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-4-a Acquired: 7/26/2017 22:25:13 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.07452**
Stddev	.00077
%RSD	1.0379
#1	.07398
#2	.07507
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3273.3**	**2318.4**	**16452.**	**3137.7**
Stddev	3.0	.2	54.	11.6
%RSD	.09048	.00896	.32904	.37060
#1	3275.4	2318.5	16490.	3129.5
#2	3271.2	2318.2	16414.	3146.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.785%	96.194%	95.480%	98.518%
Range				

Sample Name: 480-121624-a-1-a Acquired: 7/26/2017 22:28:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.07603**	**.00304**	**.11035**	**.03012**
Stddev	.00041	.01360	.00252	.00028	.00017
%RSD	149.84	17.884	83.149	.25767	.57572
#1	-.00056	.08564	.00482	.11055	.03024
#2	.00002	.06641	.00125	.11015	.03000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**534.31**	**.00050**	**.0018**	**.00080**
Stddev	.00001	1.34	.00011	.0232	.00006
%RSD	3.0716	.25128	22.514	1285.	7.2623
#1	-.00018	533.36	.00042	.0182	.00075
#2	-.00018	535.26	.00058	-.0146	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00413**	**3.1758**	**11.723**	**.07212**
Stddev	.00096	.00123	.0220	.025	.00075
%RSD	59.859	29.815	.69264	.21306	1.0371
#1	.00092	.00326	3.1602	11.705	.07265
#2	.00227	.00500	3.1913	11.741	.07159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121624-a-1-a Acquired: 7/26/2017 22:28:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**165.89**	**1.4964**	**.00215**	**85.164**	**.00523**
Stddev	.71	.0043	.00029	.080	.00058
%RSD	.43081	.28691	13.584	.09404	11.051
#1	166.39	1.4994	.00236	85.107	.00563
#2	165.38	1.4934	.00194	85.220	.00482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	F **546.99**	**-.00134**	**-.00161**	**10.091**
Stddev	.00111	1.00	.00062	.00279	.029
%RSD	212.78	.18291	46.170	173.66	.29151
#1	.00130	546.28	-.00178	.00037	10.071
#2	-.00026	547.70	-.00090	-.00358	10.112
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**1.0101**	**.00089**	**.00198**	**-.00099**
Stddev	.00056	.0021	.00021	.00131	.00010
%RSD	115.83	.20406	23.780	66.256	10.388
#1	-.00088	1.0086	.00104	.00291	-.00107
#2	-.00009	1.0115	.00074	.00105	-.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121624-a-1-a Acquired: 7/26/2017 22:28:36 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02208**
Stddev	.00086
%RSD	3.8869
#1	.02269
#2	.02148
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2944.0**	**2143.7**	**15463.**	**3037.2**
Stddev	1.5	3.4	23.	1.9
%RSD	.04942	.15769	.14981	.06403
#1	2945.0	2146.0	15479.	3038.5
#2	2943.0	2141.3	15446.	3035.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.953%	88.944%	89.739%	95.360%
Range				

Sample Name: 480-121634-d-1-a Acquired: 7/26/2017 22:32:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**1.5463**	**.00184**	**.02947**	**.08916**
Stddev	.00094	.0250	.00057	.00019	.00024
%RSD	371.63	1.6153	30.766	.64396	.27080
#1	.00041	1.5640	.00144	.02960	.08933
#2	-.00092	1.5286	.00224	.02933	.08899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**230.06**	**.00032**	**-.0341**	**.00194**
Stddev	.00005	.28	.00002	.0063	.00003
%RSD	30.703	.11995	7.2464	18.35	1.5353
#1	.00012	230.25	.00031	-.0297	.00192
#2	.00018	229.86	.00034	-.0385	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00581**	**.01876**	**8.3053**	**13.825**	**-.00045**
Stddev	.00030	.00147	.0160	.044	.00167
%RSD	5.2293	7.8609	.19316	.31841	372.97
#1	.00603	.01980	8.3167	13.793	-.00163
#2	.00560	.01772	8.2940	13.856	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121634-d-1-a Acquired: 7/26/2017 22:32:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.639**	**.78337**	**.00150**	**99.179**	**.00918**
Stddev	.043	.00047	.00008	.426	.00005
%RSD	.34004	.05986	5.2759	.42967	.51619
#1	12.669	.78370	.00155	99.480	.00915
#2	12.608	.78304	.00144	98.877	.00921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01446**	**4.4778**	**.00086**	**.00195**	**5.0240**
Stddev	.00042	.0021	.00256	.00210	.0072
%RSD	2.8977	.04716	299.30	107.77	.14307
#1	.01476	4.4763	-.00096	.00343	5.0290
#2	.01417	4.4793	.00267	.00046	5.0189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.29525**	**.02192**	**.00073**	**.00513**
Stddev	.00015	.00002	.00080	.00091	.00053
%RSD	18.763	.00746	3.6341	124.28	10.292
#1	.00071	.29524	.02249	.00137	.00551
#2	.00093	.29527	.02136	.00009	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121634-d-1-a Acquired: 7/26/2017 22:32:06 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.39870**
Stddev	.00115
%RSD	.28852
#1	.39789
#2	.39952
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3196.5**	**2300.1**	**16408.**	**3183.1**
Stddev	1.4	1.0	25.	7.7
%RSD	.04516	.04488	.15492	.24099
#1	3195.5	2299.3	16426.	3188.5
#2	3197.5	2300.8	16390.	3177.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.725%	95.433%	95.225%	99.941%
Range				

Sample Name: 480-121613-d-1-a Acquired: 7/26/2017 22:35:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**.09123**	**.09515**	**11.312**	**.26322**
Stddev	.00062	.02687	.00088	.007	.00045
%RSD	68.280	29.455	.92940	.06139	.17127
#1	-.00047	.07223	.09577	11.317	.26354
#2	-.00136	.11024	.09452	11.307	.26290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**102.68**	**.00029**	**-.0384**	**.02872**
Stddev	.00009	.57	.00016	.0046	.00009
%RSD	150.52	.55421	54.076	11.97	.32769
#1	-.00000	102.27	.00018	-.0416	.02866
#2	.00012	103.08	.00041	-.0351	.02879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08982**	**.00127**	**6.1369**	**515.47**	**.05910**
Stddev	.00008	.00107	.0295	.47	.00104
%RSD	.08433	84.336	.48073	.09063	1.7576
#1	.08977	.00203	6.1160	515.14	.05836
#2	.08987	.00051	6.1577	515.80	.05983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-1-a Acquired: 7/26/2017 22:35:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.929**	**.27851**	**.00495**	**1438.8**	**.20203**
Stddev	.336	.00086	.00011	3.8	.00013
%RSD	.39558	.30926	2.3219	.26753	.06638
#1	85.167	.27912	.00487	1436.1	.20193
#2	84.691	.27790	.00503	1441.5	.20212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00242**	**17.426**	**.00932**	**.00478**	**10.833**
Stddev	.00087	.036	.00113	.00308	.092
%RSD	35.825	.20762	12.118	64.438	.84817
#1	.00303	17.451	.01012	.00696	10.768
#2	.00181	17.400	.00852	.00260	10.898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01396**	**.85426**	**.05147**	**-.00058**	**.07321**
Stddev	.00011	.00157	.00008	.00011	.00010
%RSD	.76183	.18360	.15534	18.952	.14114
#1	.01389	.85315	.05153	-.00065	.07314
#2	.01404	.85537	.05142	-.00050	.07328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-1-a Acquired: 7/26/2017 22:35:30 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04486
Stddev	.00022
%RSD	.49647
#1	.04470
#2	.04502
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2683.4	2107.7	14748.	3095.4
Stddev	2.8	.0	14.	13.5
%RSD	.10263	.00187	.09724	.43659
#1	2685.3	2107.7	14738.	3104.9
#2	2681.4	2107.7	14758.	3085.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.965%	87.452%	85.591%	97.187%
Range				

Sample Name: 480-121613-d-2-a Acquired: 7/26/2017 22:38:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.17381**	**.08910**	**12.269**	**.39889**
Stddev	.00094	.02325	.00006	.009	.00044
%RSD	120.72	13.375	.06994	.07100	.11003
#1	-.00011	.19024	.08914	12.263	.39858
#2	-.00144	.15737	.08905	12.275	.39920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**114.16**	**.00022**	**-.0341**	**.03118**
Stddev	.00002	.40	.00001	.0181	.00034
%RSD	44.325	.35411	6.5500	53.23	1.0985
#1	-.00007	113.88	.00023	-.0469	.03094
#2	-.00003	114.45	.00021	-.0213	.03142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10460**	**.00348**	**9.7910**	F **545.33**	**.06511**
Stddev	.00088	.00052	.0208	.05	.00107
%RSD	.84023	15.052	.21273	.00968	1.6499
#1	.10522	.00385	9.7763	545.37	.06435
#2	.10398	.00311	9.8057	545.29	.06586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-121613-d-2-a Acquired: 7/26/2017 22:38:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**91.968**	**.29589**	**.00562**	**1562.7**	**.21872**
Stddev	.076	.00028	.00006	2.5	.00015
%RSD	.08251	.09583	1.0225	.16179	.06720
#1	91.914	.29569	.00566	1560.9	.21862
#2	92.022	.29609	.00558	1564.5	.21883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00517**	**19.361**	**.01106**	**.00674**	**11.857**
Stddev	.00085	.028	.00046	.00531	.038
%RSD	16.379	.14505	4.1178	78.717	.31896
#1	.00457	19.381	.01074	.00299	11.830
#2	.00577	19.341	.01139	.01049	11.883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01985**	**.98407**	**.08599**	**-.00165**	**.07457**
Stddev	.00057	.00207	.00033	.00139	.00093
%RSD	2.8858	.21018	.37871	84.524	1.2492
#1	.02026	.98261	.08576	-.00066	.07523
#2	.01945	.98553	.08622	-.00263	.07391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-2-a Acquired: 7/26/2017 22:38:58 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.06387
Stddev	.00085
%RSD	1.3353
#1	.06448
#2	.06327
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2637.0	2079.7	14483.	3036.7
Stddev	2.5	1.3	29.	6.0
%RSD	.09386	.06145	.19785	.19819
#1	2638.7	2080.6	14503.	3032.4
#2	2635.2	2078.8	14463.	3041.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.720%	86.289%	84.054%	95.345%
Range				

Sample Name: 480-121613-d-3-a Acquired: 7/26/2017 22:42:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00110**	**1.2778**	**.39221**	**10.029**	**2.3392**
Stddev	.00052	.0006	.00061	.002	.0128
%RSD	47.741	.05099	.15546	.02221	.54887
#1	-.00147	1.2773	.39178	10.030	2.3301
#2	-.00073	1.2782	.39265	10.027	2.3483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**302.76**	**-.00028**	**.0201**	**.03107**
Stddev	.00004	1.65	.00009	.0088	.00004
%RSD	8.1014	.54419	33.227	43.91	.13524
#1	.00057	303.93	-.00035	.0264	.03104
#2	.00051	301.60	-.00022	.0139	.03110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25981**	**.01862**	**103.27**	**470.72**	**.04731**
Stddev	.00069	.00017	.28	1.26	.00030
%RSD	.26552	.89653	.27573	.26815	.62477
#1	.25932	.01850	103.07	469.83	.04710
#2	.26030	.01874	103.47	471.62	.04752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a Acquired: 7/26/2017 22:42:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**102.33**	**1.1108**	**.00616**	**1309.6**	**.19560**
Stddev	.02	.0006	.00025	2.8	.00054
%RSD	.02175	.05760	4.0344	.21113	.27456
#1	102.31	1.1112	.00633	1307.7	.19522
#2	102.34	1.1103	.00598	1311.6	.19598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02685**	**25.805**	**.01139**	**.00564**	**15.157**
Stddev	.00088	.051	.00032	.00055	.056
%RSD	3.2875	.19690	2.7775	9.8160	.36721
#1	.02623	25.841	.01116	.00604	15.118
#2	.02747	25.769	.01161	.00525	15.197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09684**	**2.4498**	**.59894**	**-.00247**	**.23336**
Stddev	.00074	.0055	.00302	.00277	.00094
%RSD	.76700	.22578	.50350	111.90	.40147
#1	.09736	2.4459	.60107	-.00052	.23270
#2	.09631	2.4537	.59681	-.00443	.23402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a Acquired: 7/26/2017 22:42:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.14826**
Stddev	.00141
%RSD	.94782
#1	.14727
#2	.14926
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2618.8**	**2102.1**	**14781.**	**3067.7**
Stddev	4.9	3.4	18.	10.4
%RSD	.18747	.15971	.12415	.33884
#1	2622.3	2104.5	14794.	3060.4
#2	2615.4	2099.7	14768.	3075.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.233%	87.220%	85.785%	96.320%
Range				

Sample Name: 480-121613-d-3-a@5 Acquired: 7/26/2017 22:46:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.26754**	**.07460**	**2.0319**	**.45772**
Stddev	.00104	.00160	.00375	.0019	.00042
%RSD	141.19	.59807	5.0253	.09399	.09232
#1	-.00147	.26641	.07725	2.0305	.45742
#2	-.00000	.26867	.07195	2.0332	.45802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**60.243**	**-.00011**	**-.0145**	**.00576**
Stddev	.00007	.344	.00003	.0310	.00011
%RSD	102.84	.57051	26.697	214.0	1.9937
#1	.00013	60.000	-.00013	-.0364	.00568
#2	.00002	60.486	-.00009	.0074	.00585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05250**	**.00271**	**20.614**	**90.586**	**.01084**
Stddev	.00024	.00053	.141	.274	.00101
%RSD	.46180	19.444	.68537	.30277	9.2942
#1	.05267	.00309	20.514	90.392	.01012
#2	.05233	.00234	20.714	90.780	.01155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a@5 Acquired: 7/26/2017 22:46:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.246**	**.22266**	**.00080**	**250.06**	**.03678**
Stddev	.002	.00018	.00003	1.08	.00014
%RSD	.00911	.08147	3.3379	.43183	.38057
#1	20.247	.22253	.00078	249.30	.03688
#2	20.244	.22279	.00081	250.82	.03669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00517**	**4.7854**	**.00294**	**.00235**	**3.0004**
Stddev	.00057	.0130	.00081	.00029	.0172
%RSD	10.945	.27094	27.577	12.434	.57295
#1	.00477	4.7762	.00351	.00215	2.9883
#2	.00557	4.7946	.00236	.00256	3.0126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01793**	**.47752**	**.11783**	**.00128**	**.04611**
Stddev	.00097	.00035	.00030	.00147	.00039
%RSD	5.4193	.07369	.25477	114.63	.84322
#1	.01725	.47727	.11804	.00024	.04639
#2	.01862	.47777	.11762	.00232	.04584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a@5 Acquired: 7/26/2017 22:46:02 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03039
Stddev	.00066
%RSD	2.1745
#1	.03086
#2	.02992
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3094.5	2248.2	15817.	3094.3
Stddev	2.3	.7	35.	.9
%RSD	.07363	.03067	.22326	.02756
#1	3096.1	2248.6	15842.	3094.9
#2	3092.9	2247.7	15792.	3093.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.990%	93.280%	91.797%	97.155%
Range				

Sample Name: 480-121470-o-1-b Acquired: 7/26/2017 22:49:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00138**	**.13741**	**.06626**	**13.225**	**.57825**
Stddev	.00012	.00019	.00032	.028	.00103
%RSD	8.8604	.13867	.48990	.21145	.17879
#1	-.00130	.13728	.06649	13.205	.57898
#2	-.00147	.13755	.06603	13.245	.57752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**213.59**	**.00041**	**-.0083**	**.03992**
Stddev	.00002	.37	.00013	.0040	.00001
%RSD	34.924	.17472	31.544	48.79	.02453
#1	-.00005	213.33	.00032	-.0111	.03991
#2	-.00009	213.86	.00050	-.0054	.03992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10562**	**.03291**	**15.039**	**320.15**	**.05199**
Stddev	.00110	.00021	.044	.80	.00023
%RSD	1.0382	.65143	.28994	.24980	.44425
#1	.10639	.03276	15.009	319.59	.05215
#2	.10484	.03307	15.070	320.72	.05182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121470-o-1-b Acquired: 7/26/2017 22:49:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**102.94**	**2.7903**	**.00707**	**1270.7**	**.22684**
Stddev	.03	.0028	.00010	2.5	.00017
%RSD	.02643	.10092	1.3860	.19392	.07386
#1	102.92	2.7883	.00714	1269.0	.22696
#2	102.96	2.7923	.00700	1272.4	.22672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00820**	**51.928**	**.01178**	**.00409**	**25.091**
Stddev	.00160	.067	.00010	.00126	.062
%RSD	19.567	.12992	.81054	30.841	.24673
#1	.00707	51.880	.01185	.00498	25.047
#2	.00933	51.975	.01171	.00320	25.134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01230**	**1.5999**	**.22004**	**-.00217**	**.09470**
Stddev	.00099	.0041	.00010	.00177	.00038
%RSD	8.0711	.25808	.04334	81.249	.39989
#1	.01300	1.5970	.22010	-.00342	.09444
#2	.01160	1.6028	.21997	-.00092	.09497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121470-o-1-b Acquired: 7/26/2017 22:49:25 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.14184**
Stddev	.00145
%RSD	1.0254
#1	.14287
#2	.14082
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2673.7**	**2086.9**	**14685.**	**3077.9**
Stddev	5.5	3.0	15.	2.7
%RSD	.20669	.14604	.10479	.08907
#1	2677.6	2089.0	14696.	3079.8
#2	2669.8	2084.7	14674.	3075.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.706%	86.587%	85.224%	96.639%
Range				

Sample Name: BLANK Acquired: 7/26/2017 22:52:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.01647**	**.00108**	**.03009**	**.00005**
Stddev	.00006	.02124	.00335	.00208	.00002
%RSD	7.9463	128.95	311.61	6.9078	39.943
#1	-.00074	.03149	-.00130	.03156	.00006
#2	-.00066	.00145	.00345	.02862	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01470**	**-.00014**	**-.0272**	**-.00005**
Stddev	.00004	.00386	.00018	.0460	.00005
%RSD	57.598	26.228	128.06	168.9	107.09
#1	-.00004	.01197	-.00027	.0053	-.00001
#2	-.00010	.01742	-.00001	-.0598	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00058**	**.00143**	**.37502**	**-.00004**
Stddev	.00020	.00026	.00071	.02816	.00007
%RSD	131.35	44.710	49.601	7.5077	161.50
#1	-.00001	.00076	.00093	.39493	.00001
#2	-.00030	.00040	.00193	.35511	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 22:52:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00841**	**.00004**	**-.00002**	**.15066**	**.00007**
Stddev	.00250	.00003	.00003	.01766	.00010
%RSD	29.752	83.602	168.84	11.724	139.02
#1	.00664	.00006	.00000	.13817	.00000
#2	.01018	.00002	-.00004	.16315	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.01285**	**.00144**	**.00021**	**.09361**
Stddev	.00016	.00095	.00065	.00020	.01009
%RSD	102.48	7.3792	45.300	95.415	10.783
#1	-.00026	.01218	.00190	.00007	.08648
#2	-.00004	.01352	.00098	.00036	.10075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00002**	**-.00000**	**.00064**	**-.00022**
Stddev	.00033	.00005	.00037	.00134	.00023
%RSD	82.530	326.54	10807.	208.69	103.48
#1	-.00017	-.00002	.00026	.00159	-.00038
#2	-.00063	.00006	-.00026	-.00031	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/26/2017 22:52:52 Type: Unk
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00041
Stddev	.00028
%RSD	69.786
#1	.00021
#2	.00061
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3691.7	2373.7	16902.	3057.1
Stddev	3.2	.9	32.	.8
%RSD	.08646	.03986	.18892	.02697
#1	3689.4	2373.0	16925.	3056.5
#2	3693.9	2374.4	16880.	3057.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.005%	98.489%	98.094%	95.985%
Range				

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:56:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49470**	**25.540**	**.49558**	**.54998**	**.53437**
Stddev	.00014	.075	.00245	.00146	.00086
%RSD	.02873	.29244	.49497	.26534	.16087
#1	.49480	25.488	.49385	.55101	.53498
#2	.49460	25.593	.49732	.54895	.53376
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.53086**	**25.395**	**.52583**	**-.0558**	**.51274**
Stddev	.00193	.111	.00044	.0119	.00006
%RSD	.36328	.43738	.08303	21.34	.01111
#1	.52949	25.316	.52614	-.0474	.51278
#2	.53222	25.473	.52552	-.0642	.51270
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50040**	F **.56210**	**24.732**	F **27.925**	**.54280**
Stddev	.00154	.00060	.102	.000	.00146
%RSD	.30772	.10647	.41383	.00061	.26975
#1	.49931	.56253	24.659	27.925	.54177
#2	.50149	.56168	24.804	27.925	.54384
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value		.50000		25.000	
Range		10.000%		10.000%	

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:56:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.206**	**.54580**	**.50888**	**26.813**	**.52292**
Stddev	.125	.00078	.00073	.117	.00072
%RSD	.47540	.14247	.14366	.43731	.13710
#1	26.294	.54635	.50940	26.730	.52342
#2	26.118	.54525	.50837	26.896	.52241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50918**	**25.932**	**.52314**	**.50673**	**24.801**
Stddev	.00139	.035	.00112	.00268	.094
%RSD	.27380	.13688	.21326	.52899	.37800
#1	.51017	25.957	.52393	.50862	24.735
#2	.50820	25.907	.52235	.50483	24.867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52341**	**.51047**	**.50564**	**.50333**	**.50747**
Stddev	.00037	.00231	.00031	.00086	.00137
%RSD	.06975	.45266	.06127	.17063	.26910
#1	.52315	.50883	.50542	.50273	.50651
#2	.52367	.51210	.50586	.50394	.50844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 22:56:21 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50619
Stddev	.00095
%RSD	.18713
#1	.50686
#2	.50552
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3346.6	2335.2	16531.	3063.9
Stddev	7.0	3.6	75.	4.2
%RSD	.20962	.15511	.45122	.13598
#1	3351.6	2337.8	16478.	3066.8
#2	3341.7	2332.6	16584.	3060.9

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:59:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.00653**	**.00101**	**.01775**	**.00005**
Stddev	.00022	.01473	.00010	.00072	.00001
%RSD	41.601	225.67	9.8539	4.0756	20.161
#1	-.00037	.01694	.00094	.01827	.00006
#2	-.00068	-.00389	.00108	.01724	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.00071**	**.00005**	**-.0259**	**.00001**
Stddev	.00011	.00209	.00005	.0143	.00001
%RSD	272.01	294.02	89.459	55.36	55.423
#1	-.00012	-.00219	.00002	-.0360	.00001
#2	.00004	.00077	.00009	-.0158	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00017**	**.00084**	**.19879**	**.00103**
Stddev	.00038	.00097	.00158	.04412	.00027
%RSD	227.45	558.51	188.49	22.194	26.184
#1	-.00044	-.00086	-.00028	.22999	.00084
#2	.00010	.00051	.00196	.16759	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:59:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00613**	**-.00005**	**.00018**	**.06733**	**.00006**
Stddev	.00353	.00002	.00001	.00175	.00002
%RSD	57.561	32.431	5.7485	2.6053	30.623
#1	.00863	-.00004	.00019	.06857	.00007
#2	.00364	-.00006	.00017	.06608	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00914**	**.00068**	**.00067**	**.04186**
Stddev	.00024	.00159	.00130	.00040	.01589
%RSD	705.26	17.439	192.41	59.488	37.971
#1	.00014	.00801	.00159	.00096	.05309
#2	-.00020	.01027	-.00024	.00039	.03062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00001**	**-.00024**	**.00182**	**-.00012**
Stddev	.00026	.00010	.00054	.00135	.00005
%RSD	597.47	1466.0	225.95	74.350	41.032
#1	-.00014	-.00008	.00014	.00277	-.00008
#2	.00022	.00006	-.00062	.00086	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 22:59:33 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00057
Stddev	.00011
%RSD	18.441
#1	.00050
#2	.00065
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3684.7	2370.9	16927.	3073.0
Stddev	7.4	3.5	67.	4.9
%RSD	.20081	.14814	.39693	.15956
#1	3689.9	2373.3	16880.	3069.5
#2	3679.4	2368.4	16975.	3076.4

Sample Name: CCVL-4147888 Acquired: 7/26/2017 23:03:02 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00518**	**.19495**	**.01463**	F **.03407**	**.00220**
Stddev	.00044	.02160	.00127	.00006	.00003
%RSD	8.4009	11.078	8.6672	.19037	1.2658
#1	.00487	.21023	.01553	.03411	.00222
#2	.00549	.17968	.01373	.03402	.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.50079**	**.00221**	**-.0396**	**.00387**
Stddev	.00008	.00250	.00023	.0016	.00001
%RSD	3.9925	.49860	10.575	3.953	.38538
#1	.00203	.49902	.00237	-.0407	.00388
#2	.00214	.50255	.00204	-.0385	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00385**	**.01124**	**.05009**	W **.72938**	**.03402**
Stddev	.00014	.00077	.00274	.01689	.00027
%RSD	3.7197	6.8909	5.4761	2.3161	.80080
#1	.00375	.01069	.04815	.74132	.03421
#2	.00395	.01179	.05203	.71743	.03383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.50000	
Range				30.000%	

Sample Name: CCVL-4147888 Acquired: 7/26/2017 23:03:02 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21147**	**.00315**	**.00986**	**1.1092**	**.01008**
Stddev	.00351	.00000	.00019	.0036	.00002
%RSD	1.6619	.00743	1.8822	.32310	.17809
#1	.20899	.00315	.00973	1.1117	.01006
#2	.21396	.00315	.00999	1.1066	.01009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01028**	**.20168**	**.02230**	**.02718**	**.48856**
Stddev	.00037	.00181	.00148	.00017	.00962
%RSD	3.6115	.89682	6.6251	.60850	1.9691
#1	.01054	.20296	.02125	.02730	.49536
#2	.01002	.20040	.02334	.02706	.48175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00937**	**.00508**	**.00508**	**.02102**	**.00511**
Stddev	.00018	.00014	.00003	.00033	.00030
%RSD	1.9117	2.8176	.67813	1.5487	5.7949
#1	.00950	.00498	.00506	.02125	.00490
#2	.00925	.00518	.00511	.02079	.00532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/26/2017 23:03:02 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01064
Stddev	.00030
%RSD	2.8552
#1	.01043
#2	.01086
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3706.8	2391.8	17020.	3054.4
Stddev	.3	1.2	8.	19.2
%RSD	.00760	.04929	.04786	.62948
#1	3707.0	2391.0	17026.	3068.0
#2	3706.6	2392.7	17014.	3040.8

Sample Name: icsa-4090634 Acquired: 7/26/2017 23:06:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00159**	**498.76**	**.00363**	**.00918**	**.00098**
Stddev	.00121	2.01	.00080	.00058	.00004
%RSD	76.091	.40203	22.097	6.2715	4.1858
#1	-.00073	500.18	.00307	.00878	.00101
#2	-.00244	497.34	.00420	.00959	.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**463.33**	**-.00045**	**.0086**	**-.00088**
Stddev	.00001	6.18	.00004	.0262	.00023
%RSD	4.6109	1.3344	9.7324	305.6	26.156
#1	-.00022	467.70	-.00042	.0271	-.00104
#2	-.00020	458.96	-.00049	-.0099	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.00467**	**182.23**	**.18075**	**-.01728**
Stddev	.00040	.00098	1.05	.04485	.00203
%RSD	92.866	20.967	.57811	24.814	11.766
#1	-.00015	-.00536	182.97	.14903	-.01872
#2	-.00071	-.00398	181.48	.21246	-.01584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: icsa-4090634 Acquired: 7/26/2017 23:06:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**526.15**	**.00146**	**-.00135**	**.15195**	**-.00129**
Stddev	.10	.00003	.00002	.01173	.00051
%RSD	.01850	1.9694	1.1567	7.7197	39.095
#1	526.22	.00144	-.00134	.14365	-.00165
#2	526.08	.00148	-.00136	.16024	-.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00106**	**.06884**	**.00442**	**.00797**	**.03319**
Stddev	.00183	.00025	.00104	.00471	.00079
%RSD	172.16	.36766	23.538	59.046	2.3762
#1	.00023	.06866	.00369	.01130	.03264
#2	-.00236	.06902	.00516	.00464	.03375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00181**	**.03132**	**-.00036**	**-.00089**	**.00222**
Stddev	.00000	.00016	.00047	.00375	.00012
%RSD	.17034	.50978	130.82	422.50	5.1854
#1	.00181	.03143	-.00069	-.00354	.00214
#2	.00181	.03121	-.00003	.00176	.00230
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: icsa-4090634 Acquired: 7/26/2017 23:06:32 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	W .01127
Stddev	.00008
%RSD	.70908
#1	.01133
#2	.01121
Check ?	Chk Warn
High Limit	.01000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2703.2	2143.1	14789.	2981.9
Stddev	10.1	5.6	14.	17.8
%RSD	.37468	.25932	.09717	.59539
#1	2710.4	2147.1	14779.	2969.4
#2	2696.1	2139.2	14799.	2994.5

Sample Name: icsab-4093406 Acquired: 7/26/2017 23:10:01 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21401**	**520.63**	**.10433**	**.01124**	**.51370**
Stddev	.00046	1.84	.00138	.00072	.00162
%RSD	.21447	.35371	1.3248	6.3660	.31475
#1	.21368	519.33	.10530	.01175	.51255
#2	.21433	521.93	.10335	.01074	.51484
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51296**	**463.37**	**1.0177**	**-.0324**	**.49122**
Stddev	.00224	.25	.0009	.0257	.00066
%RSD	.43580	.05338	.08807	79.30	.13470
#1	.51138	463.19	1.0171	-.0142	.49075
#2	.51454	463.54	1.0183	-.0506	.49169
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.46375**	**.56259**	**92.926**	**.17808**	**.52267**
Stddev	.00162	.00376	.054	.04683	.00409
%RSD	.34886	.66791	.05835	26.297	.78258
#1	.46261	.55994	92.888	.14497	.51978
#2	.46490	.56525	92.964	.21120	.52556
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: icsab-4093406 Acquired: 7/26/2017 23:10:01 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**546.40**	**.51357**	**-.00066**	**.24815**	**.97714**
Stddev	.91	.00081	.00011	.00018	.00179
%RSD	.16717	.15824	16.815	.07203	.18325
#1	545.75	.51299	-.00058	.24803	.97840
#2	547.04	.51414	-.00074	.24828	.97587
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04940**	**1.0534**	**.60482**	**.05504**	**.95500**
Stddev	.00215	.0040	.00027	.00519	.00514
%RSD	4.3542	.37882	.04514	9.4260	.53817
#1	.05092	1.0506	.60462	.05871	.95137
#2	.04788	1.0562	.60501	.05137	.95863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.48215**	**.00061**	**.09618**	**.49538**
Stddev	.00007	.00181	.00057	.00181	.00068
%RSD	3.5656	.37622	92.614	1.8801	.13640
#1	.00215	.48087	.00021	.09746	.49586
#2	.00205	.48343	.00102	.09490	.49490
Check ?	None	None	None	Chk Pass	Chk Pass
Value					
Range					

Sample Name: icsab-4093406 Acquired: 7/26/2017 23:10:01 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.91298
Stddev	.00234
%RSD	.25672
#1	.91463
#2	.91132
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2712.8	2149.4	14745.	3006.9
Stddev	9.6	5.9	39.	22.1
%RSD	.35449	.27248	.26290	.73362
#1	2719.6	2153.6	14772.	3022.5
#2	2706.0	2145.3	14717.	2991.3

Sample Name: CCV-4147885 Acquired: 7/26/2017 23:13:23 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50285**	**25.565**	**.49921**	**.53823**	**.53424**
Stddev	.00462	.027	.00196	.00005	.00062
%RSD	.91836	.10464	.39263	.00837	.11634
#1	.49958	25.546	.49782	.53826	.53380
#2	.50611	25.584	.50060	.53820	.53468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52751**	**25.225**	**.52635**	**-.0485**	**.51170**
Stddev	.00058	.011	.00074	.0316	.00048
%RSD	.11024	.04314	.13990	65.10	.09420
#1	.52710	25.233	.52687	-.0262	.51136
#2	.52792	25.217	.52583	-.0709	.51204
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51120**	F **.56034**	**24.498**	F **27.597**	**.54278**
Stddev	.00263	.00070	.005	.023	.00130
%RSD	.51530	.12408	.02096	.08498	.23894
#1	.50934	.56083	24.501	27.614	.54186
#2	.51306	.55985	24.494	27.581	.54370
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass
Value		.50000		25.000	
Range		10.000%		10.000%	

Sample Name: CCV-4147885 Acquired: 7/26/2017 23:13:23 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.295**	**.54627**	**.51064**	**26.726**	**.52314**
Stddev	.088	.00132	.00048	.002	.00099
%RSD	.33355	.24183	.09354	.00740	.18872
#1	26.233	.54534	.51098	26.728	.52244
#2	26.357	.54720	.51030	26.725	.52384
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51005**	**25.962**	**.52729**	**.50773**	**24.417**
Stddev	.00107	.033	.00082	.00600	.025
%RSD	.20892	.12691	.15561	1.1815	.10223
#1	.51081	25.985	.52787	.51197	24.399
#2	.50930	25.939	.52671	.50349	24.435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52190**	**.51091**	**.50976**	**.50596**	**.51336**
Stddev	.00086	.00032	.00174	.00105	.00316
%RSD	.16445	.06171	.34121	.20690	.61586
#1	.52129	.51113	.50853	.50670	.51113
#2	.52251	.51069	.51099	.50522	.51560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/26/2017 23:13:23 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51028**
Stddev	.00531
%RSD	1.0412
#1	.50652
#2	.51403
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3352.9**	**2337.3**	**16422.**	**3087.7**
Stddev	.4	2.2	44.	16.9
%RSD	.01287	.09288	.26716	.54819
#1	3353.2	2335.7	16453.	3099.6
#2	3352.5	2338.8	16391.	3075.7

Sample Name: CCB-4130963 Acquired: 7/26/2017 23:16:35 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.01776**	**.00097**	**.00809**	**.00005**
Stddev	.00035	.01074	.00073	.00051	.00003
%RSD	248.61	60.494	75.394	6.2580	56.033
#1	.00011	.02536	.00045	.00845	.00007
#2	-.00039	.01016	.00148	.00773	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00660**	**-.00001**	**-.0299**	**-.00004**
Stddev	.00002	.00046	.00002	.0031	.00002
%RSD	35.363	7.0028	241.84	10.39	50.279
#1	-.00008	.00627	.00001	-.0321	-.00002
#2	-.00005	.00692	-.00002	-.0277	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00063**	**.00182**	**.11264**	**.00027**
Stddev	.00033	.00046	.00037	.02463	.00067
%RSD	10413.	73.451	20.373	21.865	251.26
#1	.00024	.00096	.00156	.13006	.00074
#2	-.00023	.00030	.00208	.09523	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 23:16:35 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00802**	**-.00003**	**.00004**	**.03794**	**.00002**
Stddev	.00449	.00004	.00020	.00950	.00013
%RSD	56.063	146.62	534.91	25.042	566.99
#1	.00484	.00000	-.00010	.04466	.00012
#2	.01119	-.00006	.00018	.03123	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00135**	**.00480**	**.00032**	**.00185**	**.01146**
Stddev	.00064	.00060	.00017	.00013	.00239
%RSD	46.990	12.521	54.206	6.8280	20.897
#1	-.00180	.00522	.00020	.00194	.01315
#2	-.00090	.00437	.00044	.00176	.00977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00007**	**.00004**	**.00115**	**-.00002**
Stddev	.00016	.00002	.00030	.00166	.00016
%RSD	130.06	35.655	681.15	145.07	763.36
#1	-.00001	-.00005	-.00017	.00232	.00009
#2	-.00024	-.00008	.00026	-.00003	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/26/2017 23:16:35 Type: QC
Method: ICAP2 June 2017(v60) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00053
Stddev	.00032
%RSD	61.514
#1	.00076
#2	.00030
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3686.0	2367.9	16873.	3060.5
Stddev	9.1	5.4	30.	27.0
%RSD	.24694	.22872	.17600	.88091
#1	3679.6	2364.1	16852.	3079.6
#2	3692.5	2371.8	16894.	3041.4

Run File: i2072717a Instrument: ICAP2

Analyst: jrk JRK 7/28/17 Data Review: 7/28/17

Spikes Ids: 4027863(W1), 3903387(W2), 4076679(Sn), 4076667(Ag), 3900427(Si), 3885452(TCLP)

Pipette IDs: 06/16/17-(1-9, 11)
Internal Standard: 4147891

Seq#	Run File ID	Sample ID	Date / Time	Type
1	i2072717a	ICIS-4130963	07/27/17 07:46 AM	Standard
2	i2072717a	IC-4130962	07/27/17 07:49 AM	Standard
3	i2072717a	IC-4121446	07/27/17 07:53 AM	Standard
4	i2072717a	IC-4121445	07/27/17 07:56 AM	Standard
5	i2072717a	ICV-4147886	07/27/17 07:59 AM	QC
6	i2072717a	ICB-4130963	07/27/17 08:02 AM	QC
7	i2072717a	ICVL-4147888	07/27/17 08:06 AM	QC
8	i2072717a	ICSA-4090634	07/27/17 08:09 AM	QC
9	i2072717a	ICSAB-4093406	07/27/17 08:12 AM	QC
10	i2072717a	ICEX1	07/27/17 08:16 AM	Unknown
11	i2072717a	ICEX2	07/27/17 08:19 AM	Unknown
12	i2072717a	ICEX3	07/27/17 08:22 AM	Unknown
13	i2072717a	ICEX4	07/27/17 08:28 AM	Unknown
14	i2072717a	ICEX5	07/27/17 08:32 AM	Unknown
15	i2072717a	CCV-4147885	07/27/17 08:35 AM	QC
16	i2072717a	CCB-4130963	07/27/17 08:38 AM	QC
17	i2072717a	CCVL-4147888	07/27/17 08:42 AM	QC
18	i2072717a	CCVL-4147888	07/27/17 08:57 AM	QC
19	i2072717a	mb 480-368365/1-b	07/27/17 09:00 AM	Unknown
20	i2072717a	lcs 480-368365/2-b	07/27/17 09:04 AM	Unknown
21	i2072717a	lcsd 480-368365/3-b	07/27/17 09:07 AM	Unknown
22	i2072717a	480-120452-m-1-b	07/27/17 09:10 AM	Unknown
23	i2072717a	480-120452-m-1-bSD@5	07/27/17 09:13 AM	Unknown
24	i2072717a	480-120452-m-1-b PDS	07/27/17 09:17 AM	Unknown
25	i2072717a	480-120452-m-2-b	07/27/17 09:20 AM	Unknown
26	i2072717a	480-120452-m-3-b	07/27/17 09:23 AM	Unknown
27	i2072717a	480-120452-m-4-b	07/27/17 09:27 AM	Unknown
28	i2072717a	CCV-4147885	07/27/17 09:30 AM	QC
29	i2072717a	CCB-4130963	07/27/17 09:33 AM	QC
30	i2072717a	CCVL-4147888	07/27/17 09:37 AM	QC
31	i2072717a	480-120452-m-5-b	07/27/17 09:40 AM	Unknown
32	i2072717a	480-120452-m-7-b	07/27/17 09:43 AM	Unknown
33	i2072717a	480-120452-m-10-b	07/27/17 09:47 AM	Unknown
34	i2072717a	480-120452-m-11-b	07/27/17 09:50 AM	Unknown
35	i2072717a	480-120452-m-12-b	07/27/17 09:53 AM	Unknown
36	i2072717a	mb 480-368836/1-a	07/27/17 09:57 AM	Unknown
37	i2072717a	lcs 480-368836/2-a	07/27/17 10:00 AM	Unknown
38	i2072717a	lcsd 480-368836/3-a	07/27/17 10:03 AM	Unknown
39	i2072717a	480-121597-a-1-a	07/27/17 10:07 AM	Unknown
40	i2072717a	CCV-4147885	07/27/17 10:10 AM	QC
41	i2072717a	CCB-4130963	07/27/17 10:13 AM	QC
42	i2072717a	CCVL-4147888	07/27/17 10:16 AM	QC

43	i2072717a	480-121597-a-1-aSD@5	07/27/17 10:20 AM Unknown
44	i2072717a	480-121597-a-1-a PDS	07/27/17 10:23 AM Unknown
45	i2072717a	480-121597-a-1-b ms	07/27/17 10:26 AM Unknown
46	i2072717a	480-121597-a-1-c msd	07/27/17 10:30 AM Unknown
47	i2072717a	BLANK	07/27/17 10:33 AM Unknown
48	i2072717a	mb 480-368425/1-a	07/27/17 10:36 AM Unknown
49	i2072717a	mb 480-368588/1-a	07/27/17 10:40 AM Unknown
50	i2072717a	480-121501-c-6-a	07/27/17 10:43 AM Unknown
51	i2072717a	BLANK	07/27/17 10:46 AM Unknown
52	i2072717a	CCV-4147885	07/27/17 10:50 AM QC
53	i2072717a	CCB-4130963	07/27/17 10:53 AM QC
54	i2072717a	CCVL-4147888	07/27/17 10:56 AM QC
55	i2072717a	480-121506-c-16-b@5	07/27/17 11:00 AM Unknown
56	i2072717a	480-121506-c-20-b@5	07/27/17 11:03 AM Unknown
57	i2072717a	mb 480-368710/1-a	07/27/17 11:07 AM Unknown
58	i2072717a	lcs 480-368710/2-a	07/27/17 11:10 AM Unknown
59	i2072717a	480-121588-e-1-b	07/27/17 11:13 AM Unknown
60	i2072717a	480-121588-e-2-b	07/27/17 11:17 AM Unknown
61	i2072717a	480-121588-e-3-b	07/27/17 11:20 AM Unknown
62	i2072717a	480-121588-e-4-b	07/27/17 11:23 AM Unknown
63	i2072717a	480-121588-e-5-d	07/27/17 11:27 AM Unknown
64	i2072717a	CCV-4147885	07/27/17 11:30 AM QC
65	i2072717a	CCB-4130963	07/27/17 11:33 AM QC
66	i2072717a	CCVL-4147888	07/27/17 11:37 AM QC
67	i2072717a	480-121588-e-5-dpds	07/27/17 11:40 AM Unknown
68	i2072717a	480-121588-e-5-dpds	07/27/17 11:40 AM Unknown
69	i2072717a	480-121588-e-5-dsd@5	07/27/17 11:43 AM Unknown
70	i2072717a	480-121588-e-5-dsd@5	07/27/17 11:43 AM Unknown
71	i2072717a	480-121588-e-5-e ms	07/27/17 11:47 AM Unknown
72	i2072717a	480-121588-e-5-f msd	07/27/17 11:50 AM Unknown
73	i2072717a	480-121588-e-6-b	07/27/17 11:53 AM Unknown
74	i2072717a	480-121588-e-7-b	07/27/17 11:56 AM Unknown
75	i2072717a	480-121588-e-8-b	07/27/17 12:00 PM Unknown
76	i2072717a	480-121599-c-3-b	07/27/17 12:03 PM Unknown
77	i2072717a	480-121622-b-1-a	07/27/17 12:07 PM Unknown
78	i2072717a	CCV-4147885	07/27/17 12:10 PM QC
79	i2072717a	CCB-4130963	07/27/17 12:13 PM QC
80	i2072717a	CCVL-4147888	07/27/17 12:16 PM QC
81	i2072717a	480-121622-b-2-a	07/27/17 12:20 PM Unknown
82	i2072717a	480-121622-b-3-a	07/27/17 12:23 PM Unknown
83	i2072717a	480-121622-b-4-a	07/27/17 12:27 PM Unknown
84	i2072717a	480-121624-a-1-a	07/27/17 12:30 PM Unknown
85	i2072717a	480-121634-d-1-a	07/27/17 12:33 PM Unknown
86	i2072717a	480-121613-d-1-a	07/27/17 12:37 PM Unknown
87	i2072717a	480-121613-d-2-a	07/27/17 12:40 PM Unknown
88	i2072717a	480-121613-d-3-a	07/27/17 12:44 PM Unknown
89	i2072717a	480-121470-o-1-b	07/27/17 12:47 PM Unknown
90	i2072717a	CCV-4147885	07/27/17 12:50 PM QC
91	i2072717a	CCB-4130963	07/27/17 12:54 PM QC
92	i2072717a	CCVL-4147888	07/27/17 12:57 PM QC
93	i2072717a	mb 480-368647/1-a	07/27/17 01:00 PM Unknown
94	i2072717a	lcs 480-368647/2-a	07/27/17 01:04 PM Unknown

95	i2072717a	480-121312-a-4-b	07/27/17 01:07 PM Unknown
96	i2072717a	480-121312-a-5-b	07/27/17 01:10 PM Unknown
97	i2072717a	480-121312-a-6-b	07/27/17 01:14 PM Unknown
98	i2072717a	480-121312-a-7-b	07/27/17 01:17 PM Unknown
99	i2072717a	480-121241-d-1-c	07/27/17 01:21 PM Unknown
100	i2072717a	480-121241-d-2-c	07/27/17 01:24 PM Unknown
101	i2072717a	480-121241-d-3-c	07/27/17 01:28 PM Unknown
102	i2072717a	CCV-4147885	07/27/17 01:31 PM QC
103	i2072717a	CCB-4130963	07/27/17 01:34 PM QC
104	i2072717a	CCVL-4147888	07/27/17 01:38 PM QC
105	i2072717a	480-121241-d-4-g	07/27/17 01:41 PM Unknown
106	i2072717a	480-121241-d-4-gSD@5	07/27/17 01:45 PM Unknown
107	i2072717a	480-121241-d-4-g PDS	07/27/17 01:48 PM Unknown
108	i2072717a	480-121241-d-4-h ms	07/27/17 01:51 PM Unknown
109	i2072717a	480-121241-d-4-i msd	07/27/17 01:55 PM Unknown
110	i2072717a	480-121241-d-5-c	07/27/17 01:58 PM Unknown
111	i2072717a	480-121241-d-6-c	07/27/17 02:02 PM Unknown
112	i2072717a	480-121241-d-7-c	07/27/17 02:05 PM Unknown
113	i2072717a	480-121297-b-1-c	07/27/17 02:09 PM Unknown
114	i2072717a	CCV-4147885	07/27/17 02:12 PM QC
115	i2072717a	CCB-4130963	07/27/17 02:15 PM QC
116	i2072717a	CCVL-4147888	07/27/17 02:19 PM QC
117	i2072717a	480-121297-o-7-c	07/27/17 02:22 PM Unknown
118	i2072717a	480-121277-d-1-c	07/27/17 02:26 PM Unknown
119	i2072717a	480-121277-d-2-c	07/27/17 02:29 PM Unknown
120	i2072717a	480-121277-d-3-e	07/27/17 02:32 PM Unknown
121	i2072717a	480-121289-c-11-d	07/27/17 02:36 PM Unknown
122	i2072717a	480-121309-c-1-c	07/27/17 02:39 PM Unknown
123	i2072717a	480-121298-c-2-c	07/27/17 02:42 PM Unknown
124	i2072717a	480-121298-c-1-c	07/27/17 02:46 PM Unknown
125	i2072717a	480-121298-c-1-c@5	07/27/17 02:49 PM Unknown
126	i2072717a	CCV-4147885	07/27/17 02:53 PM QC
127	i2072717a	CCB-4130963	07/27/17 02:56 PM QC
128	i2072717a	CCVL-4147888	07/27/17 02:59 PM QC
129	i2072717a	lb2 480-368394/1-b	07/27/17 03:03 PM Unknown
130	i2072717a	mb 480-368571/2-a	07/27/17 03:06 PM Unknown
131	i2072717a	lcs 480-368571/3-a	07/27/17 03:10 PM Unknown
132	i2072717a	480-121504-b-1-d	07/27/17 03:13 PM Unknown
133	i2072717a	480-121504-b-1-dSD@5	07/27/17 03:17 PM Unknown
134	i2072717a	480-121504-b-1-d PDS	07/27/17 03:20 PM Unknown
135	i2072717a	480-121504-b-1-e ms	07/27/17 03:26 PM Unknown
136	i2072717a	480-121504-b-1-f msd	07/27/17 04:08 PM Unknown
137	i2072717a	lcsd 480-368571/7-a	07/27/17 04:19 PM Unknown
138	i2072717a	CCV-4147885	07/27/17 04:22 PM QC
139	i2072717a	CCB-4130963	07/27/17 04:25 PM QC
140	i2072717a	CCVL-4147888	07/27/17 04:29 PM QC
141	i2072717a	mb 480-368849/1-a	07/27/17 04:32 PM Unknown
142	i2072717a	lcssrm 480-368849/2-	07/27/17 04:36 PM Unknown
143	i2072717a	480-121538-a-1-b	07/27/17 04:39 PM Unknown
144	i2072717a	480-121538-a-2-b	07/27/17 04:42 PM Unknown
145	i2072717a	480-121538-a-3-b	07/27/17 04:46 PM Unknown
146	i2072717a	480-121538-a-4-b	07/27/17 04:49 PM Unknown

147	i2072717a	480-121538-a-5-b	07/27/17 04:53 PM Unknown
148	i2072717a	480-121538-a-6-b	07/27/17 04:56 PM Unknown
149	i2072717a	480-121538-a-7-b	07/27/17 04:59 PM Unknown
150	i2072717a	CCV-4147885	07/27/17 05:03 PM QC
151	i2072717a	CCB-4130963	07/27/17 05:06 PM QC
152	i2072717a	CCVL-4147888	07/27/17 05:09 PM QC
153	i2072717a	480-121538-a-8-b	07/27/17 05:13 PM Unknown
154	i2072717a	480-121538-a-9-b	07/27/17 05:16 PM Unknown
155	i2072717a	480-121538-a-10-b	07/27/17 05:19 PM Unknown
156	i2072717a	480-121538-a-11-b	07/27/17 05:22 PM Unknown
157	i2072717a	480-121538-a-13-b	07/27/17 05:26 PM Unknown
158	i2072717a	480-121538-a-14-b	07/27/17 05:29 PM Unknown
159	i2072717a	480-121538-a-15-b	07/27/17 05:33 PM Unknown
160	i2072717a	480-121538-a-16-d	07/27/17 05:36 PM Unknown
161	i2072717a	121538-a-16-dSD@5	07/27/17 05:39 PM Unknown
162	i2072717a	CCV-4147885	07/27/17 05:43 PM QC
163	i2072717a	CCB-4130963	07/27/17 05:46 PM QC
164	i2072717a	CCVL-4147888	07/27/17 05:49 PM QC
165	i2072717a	480-121538-a-16-dPDS	07/27/17 05:53 PM Unknown
166	i2072717a	480-121538-a-16-e ms	07/27/17 05:56 PM Unknown
167	i2072717a	121538-a-16-f msd	07/27/17 05:59 PM Unknown
168	i2072717a	BLANK	07/27/17 06:02 PM Unknown
169	i2072717a	MB 480-368850/1-A	07/27/17 06:06 PM Unknown
170	i2072717a	LCSSRM 480-368850/2-	07/27/17 06:09 PM Unknown
171	i2072717a	480-121619-A-1-A	07/27/17 06:12 PM Unknown
172	i2072717a	480-121619-A-8-A	07/27/17 06:16 PM Unknown
173	i2072717a	480-121619-A-11-A	07/27/17 06:19 PM Unknown
174	i2072717a	CCV-4147885	07/27/17 06:23 PM QC
175	i2072717a	CCB-4130963	07/27/17 06:26 PM QC
176	i2072717a	CCVL-4147888	07/27/17 06:29 PM QC
177	i2072717a	480-121651-A-1-A	07/27/17 06:33 PM Unknown
178	i2072717a	480-121651-A-2-A	07/27/17 06:36 PM Unknown
179	i2072717a	480-121651-A-3-A	07/27/17 06:39 PM Unknown
180	i2072717a	480-121651-A-3-Asd@5	07/27/17 06:42 PM Unknown
181	i2072717a	480-121651-A-3-A pds	07/27/17 06:46 PM Unknown
182	i2072717a	480-121651-A-3-B MS	07/27/17 06:49 PM Unknown
183	i2072717a	480-121651-A-3-C MSD	07/27/17 06:52 PM Unknown
184	i2072717a	480-121651-A-4-A	07/27/17 06:56 PM Unknown
185	i2072717a	480-121651-A-5-A	07/27/17 06:59 PM Unknown
186	i2072717a	CCV-4147885	07/27/17 07:02 PM QC
187	i2072717a	CCB-4130963	07/27/17 07:05 PM QC
188	i2072717a	CCVL-4147888	07/27/17 07:09 PM QC
189	i2072717a	480-121667-A-1-B	07/27/17 07:12 PM Unknown

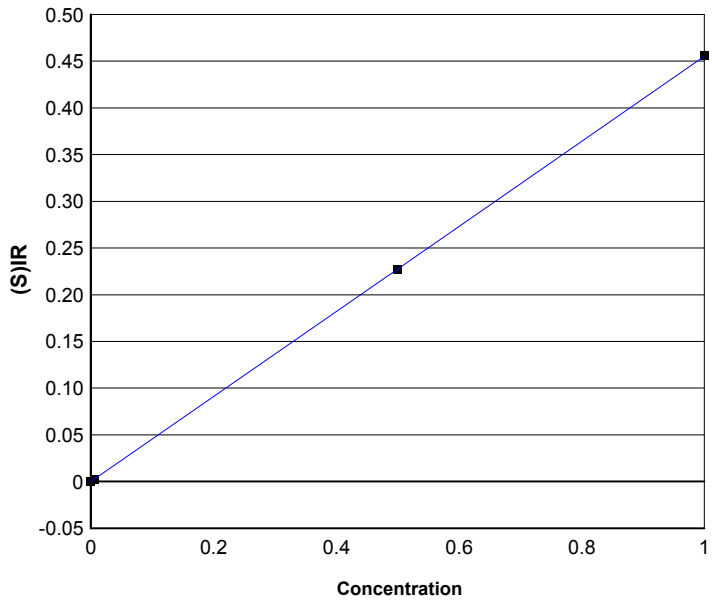
i2072717a

Author: jrk

Published: 7/28/2017 7:09:47AM

Instrument Name: iCAP2 Serial Number: 20094602

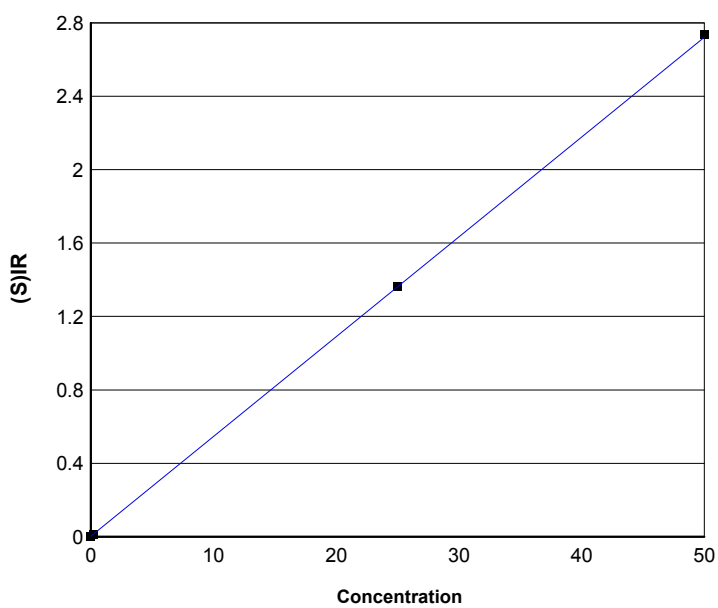
Method Name: ICAP2 June 2017 (62)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.000027998
A1 (Gain):	0.45525
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

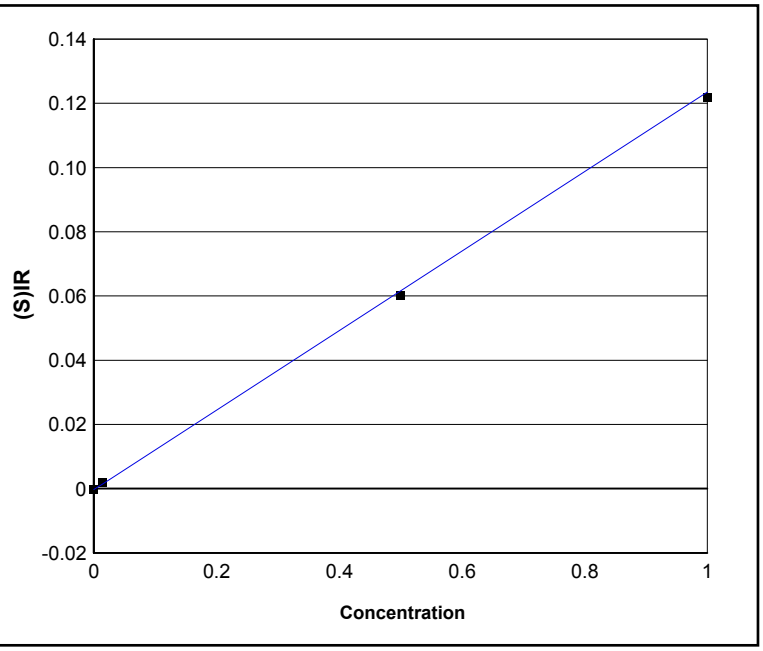
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000008117	0.0000008117	0.00000	-0.000027628	0.000022610	1
IC-4130962	0.0060000	0.0051875	-0.00081254	-13.542	0.0023337	0.00075376	1
IC-4121446	0.50000	0.49933	-0.00067442	-0.13488	0.22731	0.00016951	1
IC-4121445	1.0000	1.0015	0.0014869	0.14869	0.45593	0.0012851	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0023234
A1 (Gain):	0.054392
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

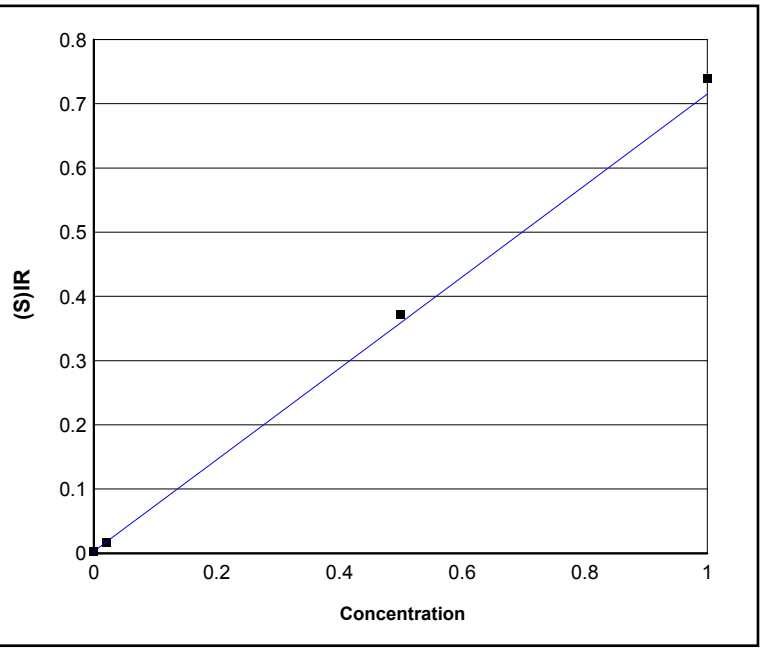
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000015119	-0.000015119	0.00000	0.0023226	0.00013587	1
IC-4130962	0.20000	0.21538	0.015384	7.6922	0.014098	0.00067184	1
IC-4121446	25.000	24.949	-0.051059	-0.20424	1.3653	0.0035509	1
IC-4121445	50.000	50.036	0.035658	0.071316	2.7358	0.0049837	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00027860
A1 (Gain):	0.12374
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

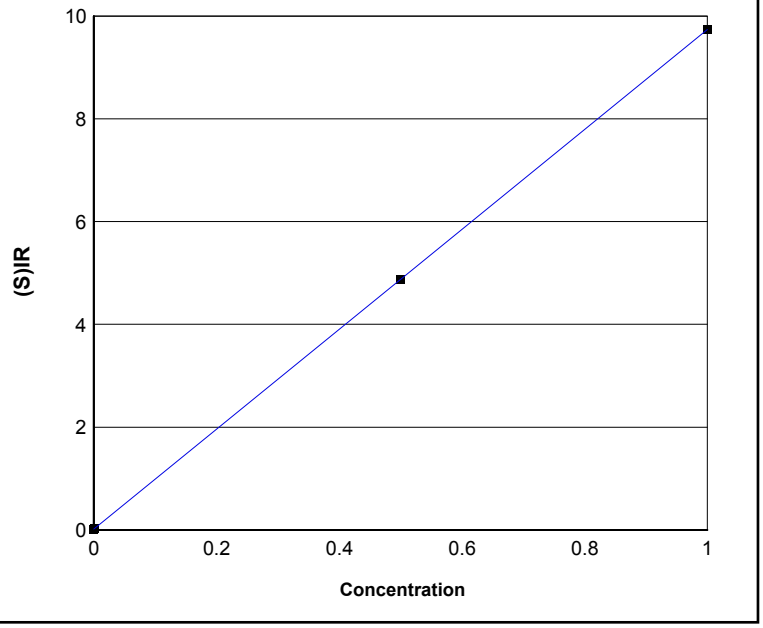
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000017931	-0.0000017931	0.00000	-0.00027882	0.0000050185	1
IC-4130962	0.015000	0.016872	0.0018715	12.477	0.0018017	0.00021136	1
IC-4121446	0.50000	0.49666	-0.0033383	-0.66767	0.060252	0.00011522	1
IC-4121445	1.0000	1.0014	0.0014459	0.14459	0.12179	0.00010746	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0028530
A1 (Gain):	0.71195
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

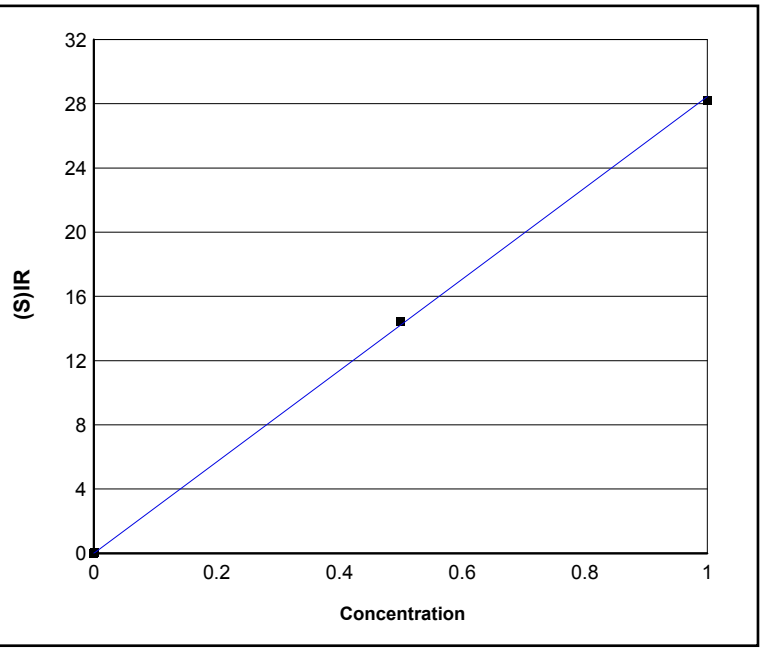
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001383	-0.0000001383	0.00000	0.0028529	0.000085545	1
IC-4130962	0.020000	0.020121	0.00012147	0.60733	0.017425	0.00032785	1
IC-4121446	0.50000	0.50096	0.00095900	0.19180	0.37182	0.000052860	1
IC-4121445	1.0000	0.99892	-0.0010784	-0.10784	0.73865	0.00011591	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.015771
A1 (Gain):	9.7205
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

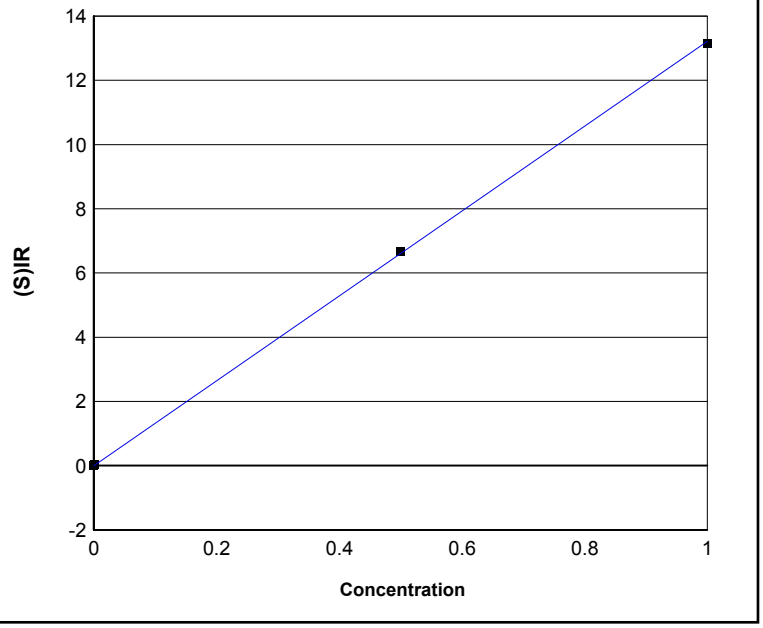
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002125	0.0000002125	0.00000	0.015774	0.0010804	1
IC-4130962	0.0020000	0.0017863	-0.00021366	-10.683	0.033136	0.0019783	1
IC-4121446	0.50000	0.50036	0.00035635	0.071270	4.8795	0.00093085	1
IC-4121445	1.0000	0.99986	-0.00014269	-0.014269	9.7349	0.014445	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.0076324
A1 (Gain):	28.435
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

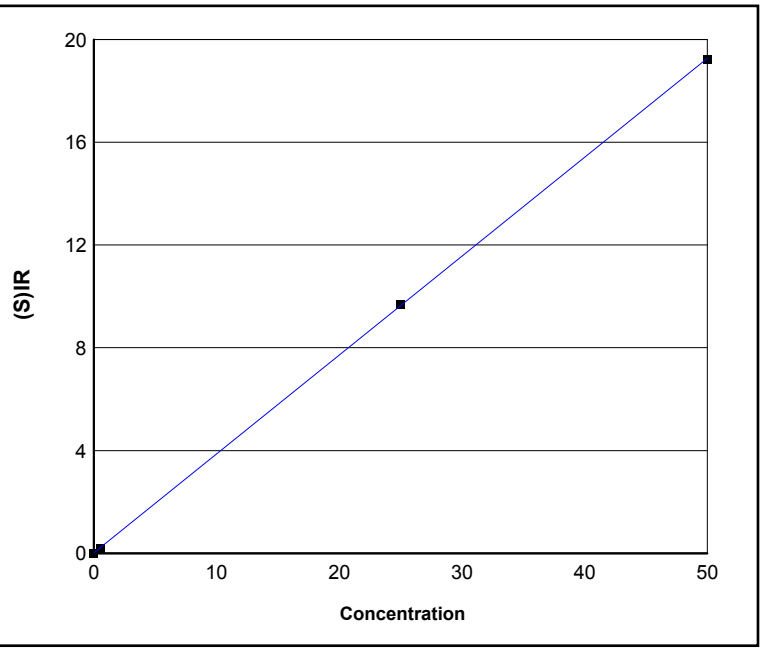
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001191	-0.0000001191	0.00000	0.0076290	0.00022012	1
IC-4130962	0.0020000	0.0021018	0.00010183	5.0915	0.067397	0.00041412	1
IC-4121446	0.50000	0.50873	0.0087342	1.7468	14.473	0.030891	1
IC-4121445	1.0000	0.99116	-0.0088360	-0.88360	28.191	0.32118	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00062169
A1 (Gain):	13.214
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

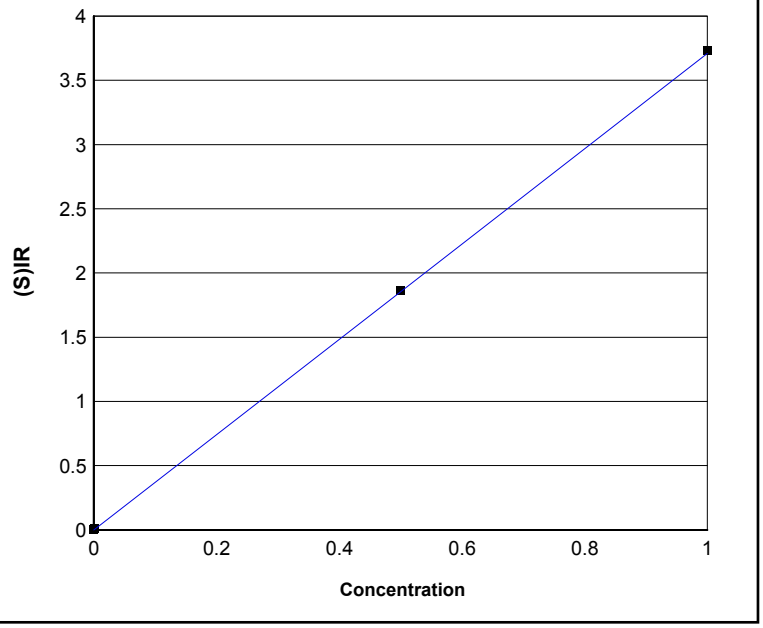
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001264	-0.0000001264	0.00000	-0.00062336	0.0012685	1
IC-4130962	0.0020000	0.0021170	0.00011703	5.8513	0.027311	0.00012327	1
IC-4121446	0.50000	0.50483	0.0048272	0.96545	6.6662	0.015321	1
IC-4121445	1.0000	0.99506	-0.0049441	-0.49441	13.140	0.050275	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.010150
A1 (Gain):	0.38518
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

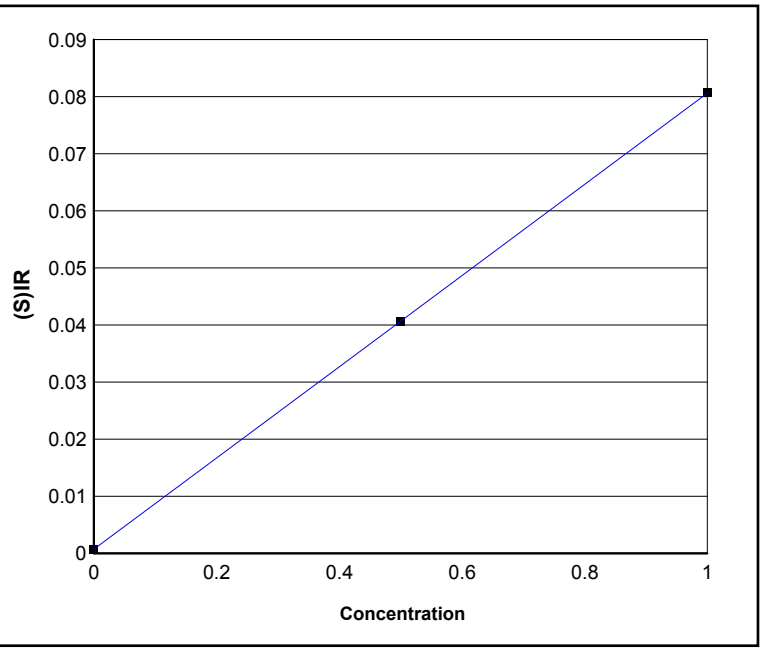
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000096350	-0.0000096350	0.00000	0.010146	0.00028327	1
IC-4130962	0.50000	0.50866	0.0086560	1.7312	0.20607	0.0024478	1
IC-4121446	25.000	25.107	0.10655	0.42621	9.6806	0.0046921	1
IC-4121445	50.000	49.885	-0.11521	-0.23042	19.225	0.048168	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0000035730
A1 (Gain):	3.7096
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

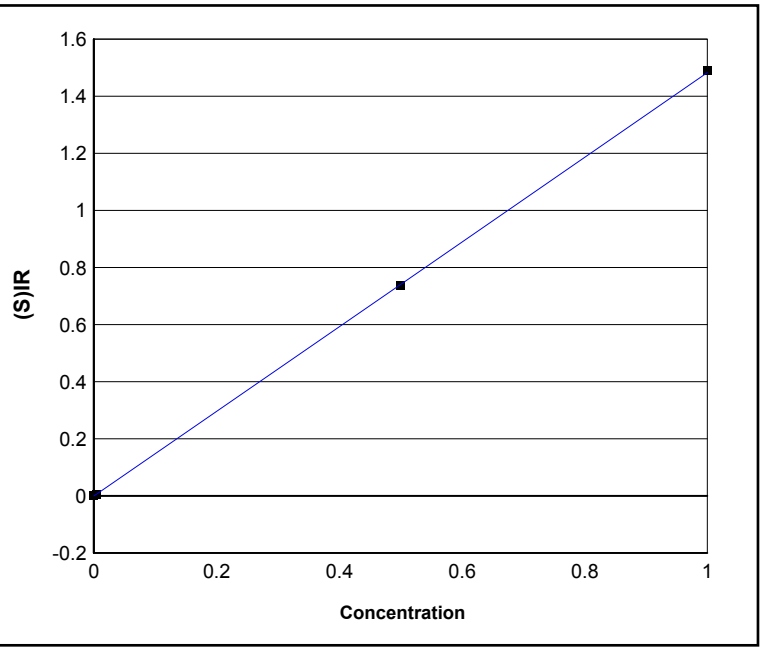
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001998	-0.0000001998	0.00000	0.0000028318	0.00040099	1
IC-4130962	0.0020000	0.0022010	0.00020097	10.048	0.0085576	0.00010949	1
IC-4121446	0.50000	0.49963	-0.00036736	-0.073472	1.8663	0.0044907	1
IC-4121445	1.0000	1.0002	0.00015731	0.015731	3.7359	0.0024593	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.0007218
A1 (Gain):	0.07986
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

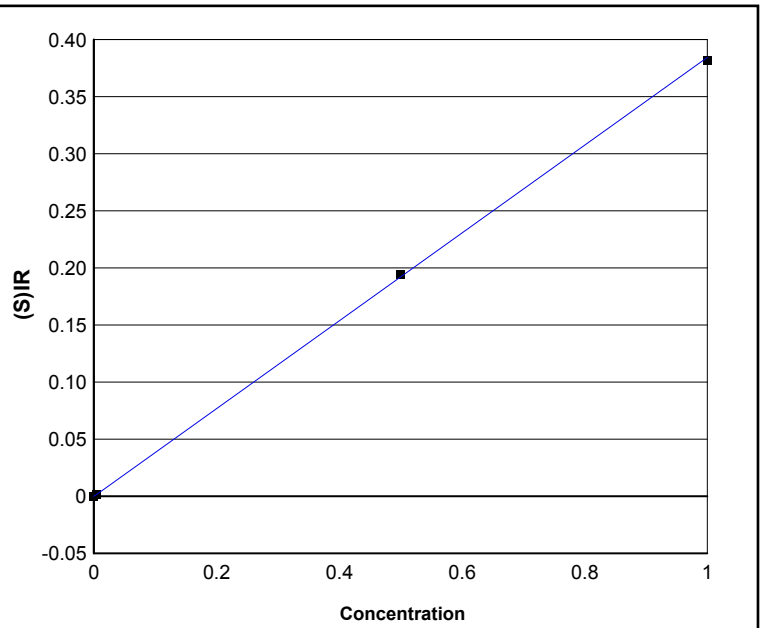
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000	0.0000002607	0.0000002607	0.0000	0.0007219	0.001295	1
IC-4121446	0.5000	0.4995	-0.0005214	-0.1043	0.04061	0.001020	1
IC-4121445	1.000	1.001	0.0005214	0.05214	0.08063	0.0004280	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00020680
A1 (Gain):	1.4825
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

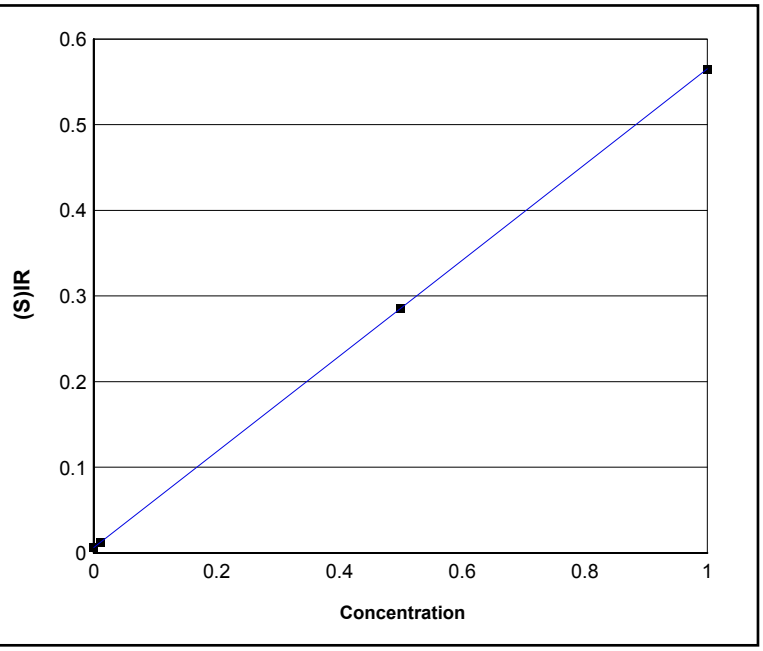
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000315	0.0000000315	0.00000	-0.00020675	0.00013045	1
IC-4130962	0.0040000	0.0039853	-0.000014687	-0.36718	0.0056990	0.000096560	1
IC-4121446	0.50000	0.49578	-0.0042204	-0.84407	0.73541	0.0016282	1
IC-4121445	1.0000	1.0042	0.0042350	0.42350	1.4898	0.0017225	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.000099400
A1 (Gain):	0.38438
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

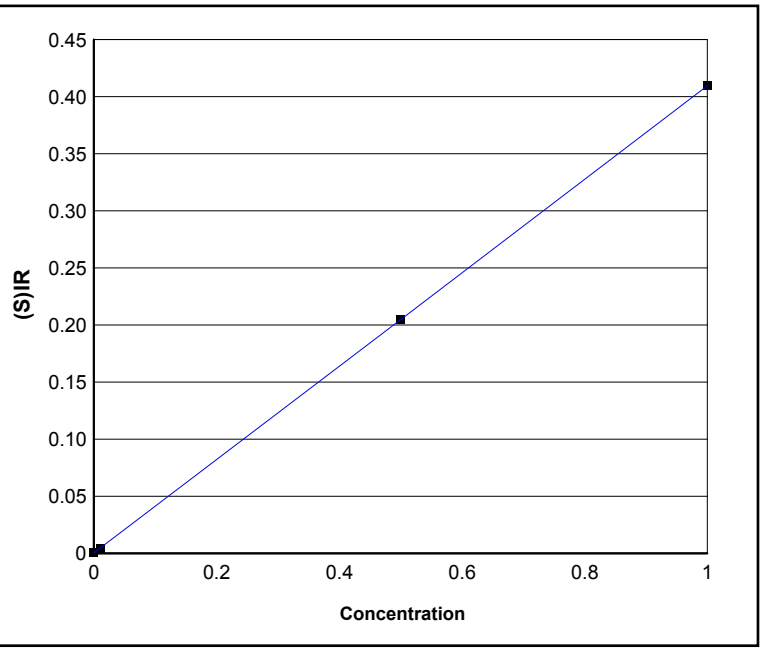
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001755	-0.0000001755	0.00000	-0.000099468	0.00012833	1
IC-4130962	0.0040000	0.0041510	0.00015097	3.7742	0.0014962	0.000029484	1
IC-4121446	0.50000	0.50630	0.0062953	1.2591	0.19449	0.00090178	1
IC-4121445	1.0000	0.99355	-0.0064463	-0.64463	0.38176	0.0010420	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0062255
A1 (Gain):	0.55896
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

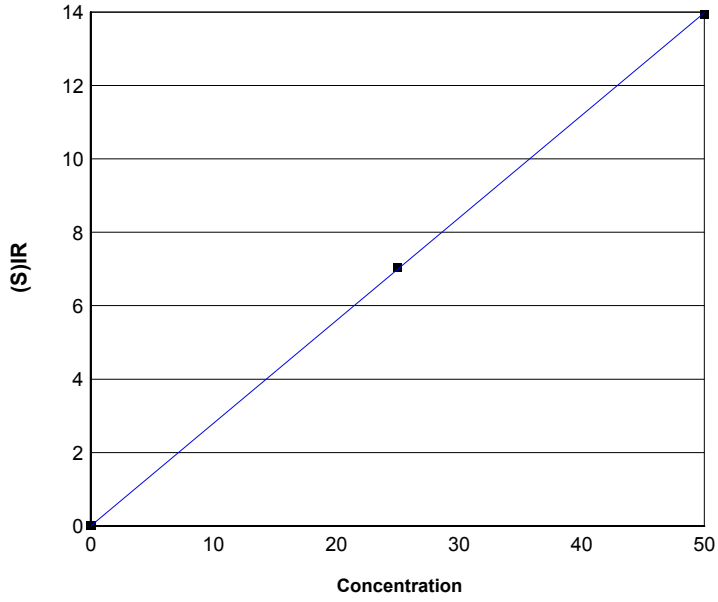
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000009267	-0.0000009267	0.00000	0.0062250	0.000049945	1
IC-4130962	0.010000	0.010940	0.00094020	9.4020	0.012341	0.000074482	1
IC-4121446	0.50000	0.49959	-0.00041375	-0.082749	0.28547	0.00068214	1
IC-4121445	1.0000	0.99947	-0.00052645	-0.052645	0.56489	0.000014487	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00031211
A1 (Gain):	0.40907
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

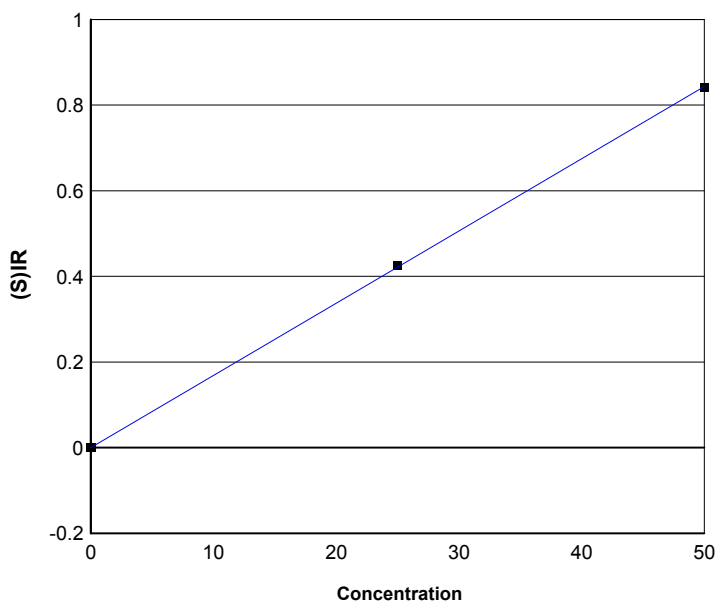
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002335	0.0000002335	0.00000	0.00031221	0.00038842	1
IC-4130962	0.010000	0.0097635	-0.00023649	-2.3649	0.0043112	0.00011331	1
IC-4121446	0.50000	0.50007	0.000065997	0.013199	0.20508	0.00049921	1
IC-4121445	1.0000	1.0002	0.00017055	0.017055	0.40986	0.00069200	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0013371
A1 (Gain):	0.27964
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

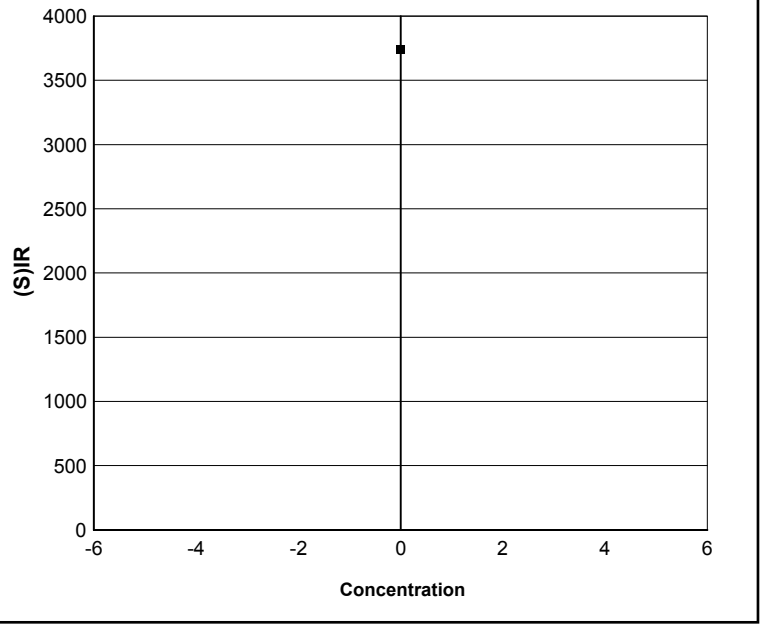
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000014639	-0.0000014639	0.00000	0.0013367	0.00017345	1
IC-4130962	0.050000	0.051317	0.0013173	2.6345	0.015687	0.00076313	1
IC-4121446	25.000	25.148	0.14791	0.59163	7.0336	0.0068281	1
IC-4121445	50.000	49.851	-0.14922	-0.29845	13.942	0.037134	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	-0.00011207
A1 (Gain):	0.016868
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

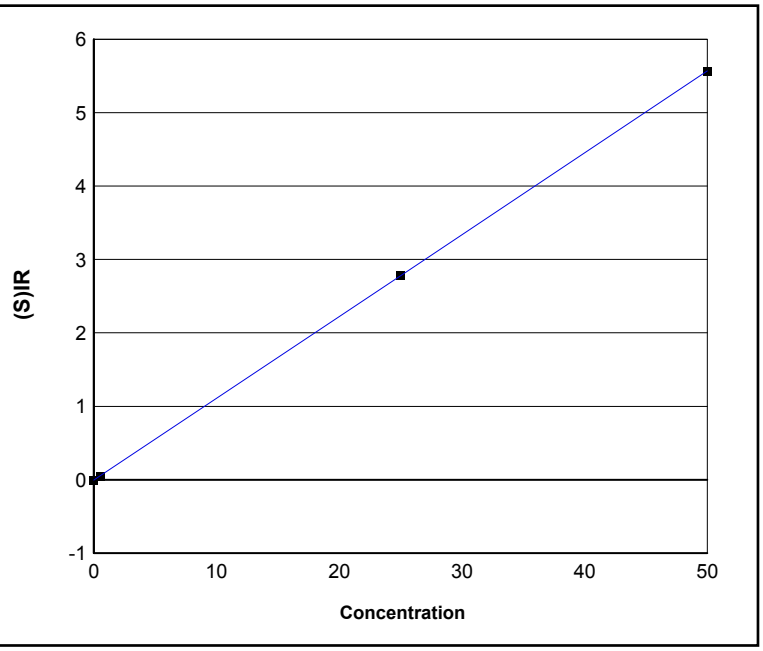
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.000024811	0.000024811	0.00000	-0.00011165	0.00059128	1
IC-4130962	0.050000	0.024948	-0.025052	-50.104	0.00030875	0.000081014	1
IC-4121446	25.000	25.216	0.21615	0.86462	0.42523	0.0022894	1
IC-4121445	50.000	49.809	-0.19110	-0.38220	0.84005	0.00049949	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:49:31AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

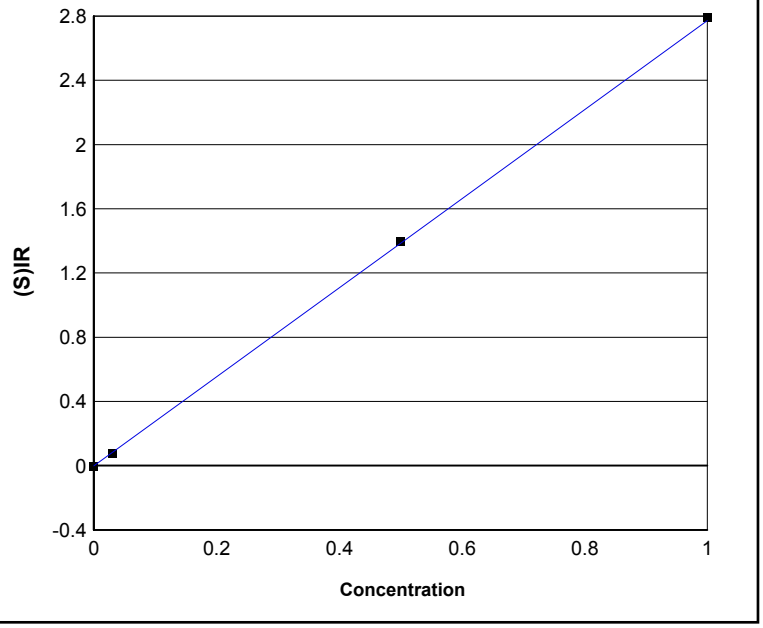
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	3,738	3.746	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0066076
A1 (Gain):	0.11149
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

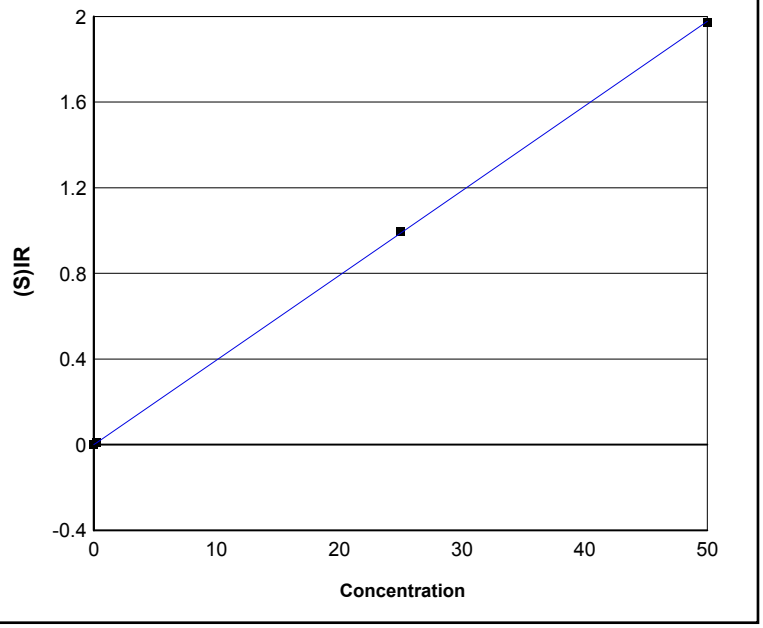
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000011678	-0.000011678	0.00000	-0.0066089	0.000025548	1
IC-4130962	0.50000	0.51120	0.011197	2.2394	0.050384	0.00075729	1
IC-4121446	25.000	25.059	0.059280	0.23712	2.7871	0.0020354	1
IC-4121445	50.000	49.930	-0.070477	-0.14095	5.5598	0.012902	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.0016939
A1 (Gain):	2.7744
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

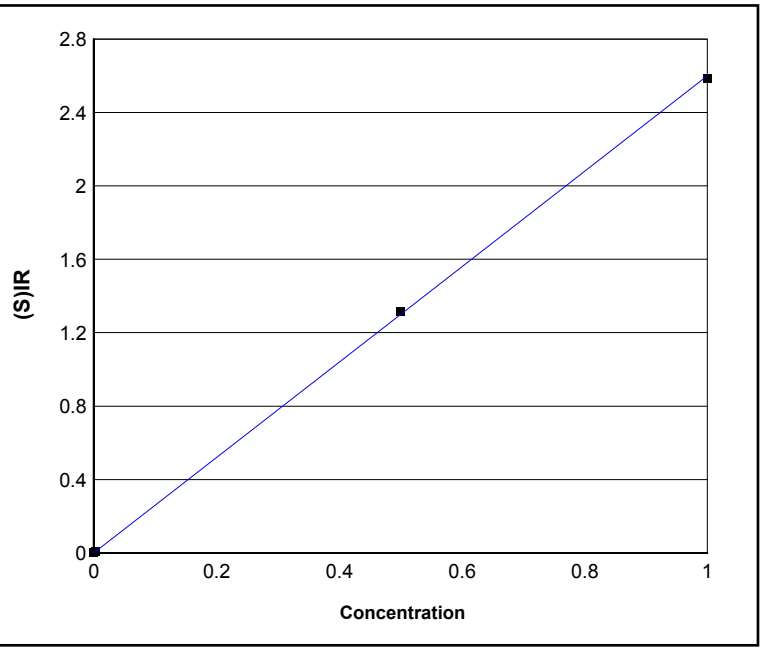
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000018389	0.0000018389	0.00000	-0.0016888	0.0017733	1
IC-4130962	0.030000	0.028084	-0.0019161	-6.3869	0.076361	0.0017351	1
IC-4121446	0.50000	0.50066	0.00066373	0.13275	1.3943	0.0075185	1
IC-4121445	1.0000	1.0012	0.0012460	0.12460	2.7900	0.0063204	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000062948
A1 (Gain):	0.039542
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

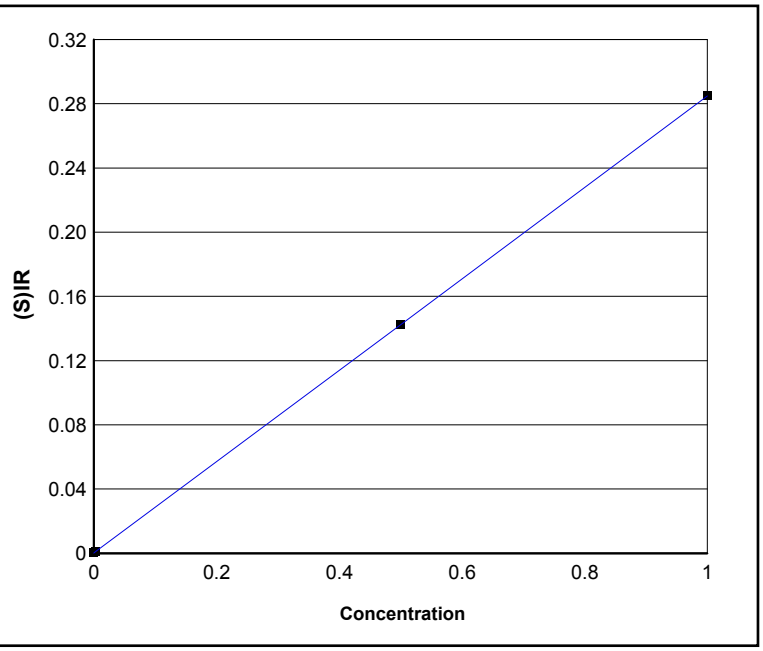
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000035646	-0.0000035646	0.00000	-0.000063089	0.000068287	1
IC-4130962	0.20000	0.20294	0.0029408	1.4704	0.0079614	0.0000054318	1
IC-4121446	25.000	25.159	0.15888	0.63552	0.99472	0.0058977	1
IC-4121445	50.000	49.838	-0.16182	-0.32364	1.9705	0.0051348	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00073638
A1 (Gain):	2.5996
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

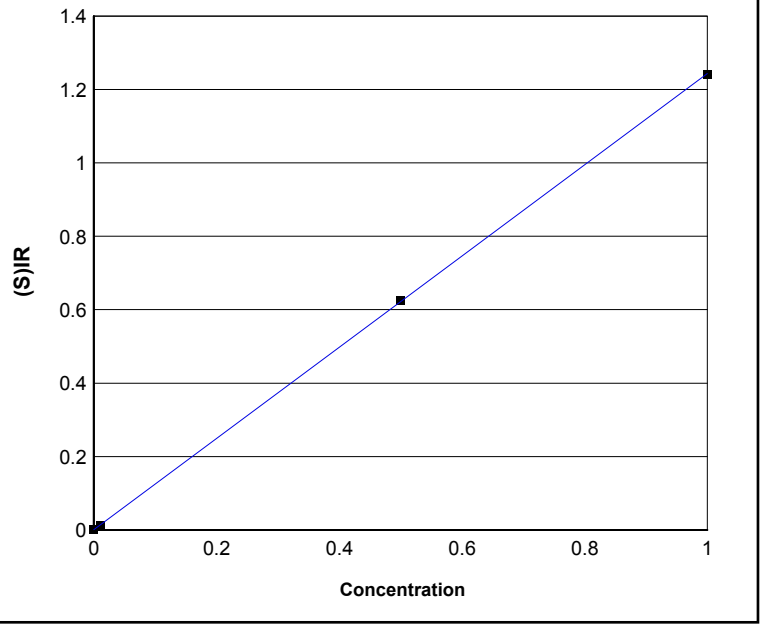
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000001756	-0.0000001756	0.00000	0.00073592	0.00010243	1
IC-4130962	0.0030000	0.0031587	0.00015867	5.2890	0.0089508	0.000013388	1
IC-4121446	0.50000	0.50580	0.0057984	1.1597	1.3168	0.0029819	1
IC-4121445	1.0000	0.99404	-0.0059570	-0.59570	2.5872	0.0089697	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00021320
A1 (Gain):	0.28454
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

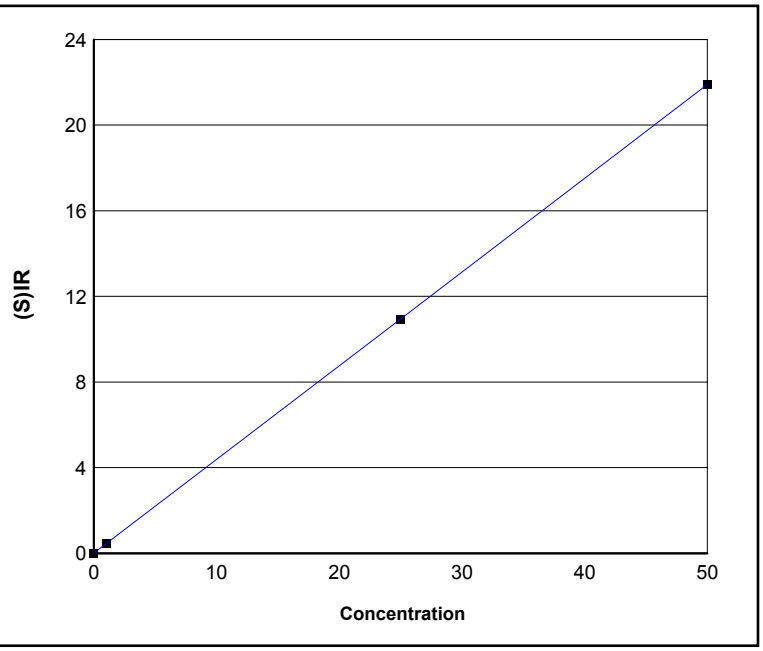
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000005145	0.0000005145	0.00000	0.00021334	0.000087365	1
IC-4130962	0.0030000	0.0024854	-0.00051463	-17.154	0.00092071	0.000084227	1
IC-4121446	0.50000	0.49954	-0.00046221	-0.092442	0.14247	0.00054644	1
IC-4121445	1.0000	1.0010	0.00097659	0.097659	0.28528	0.0016578	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00059130
A1 (Gain):	1.2425
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

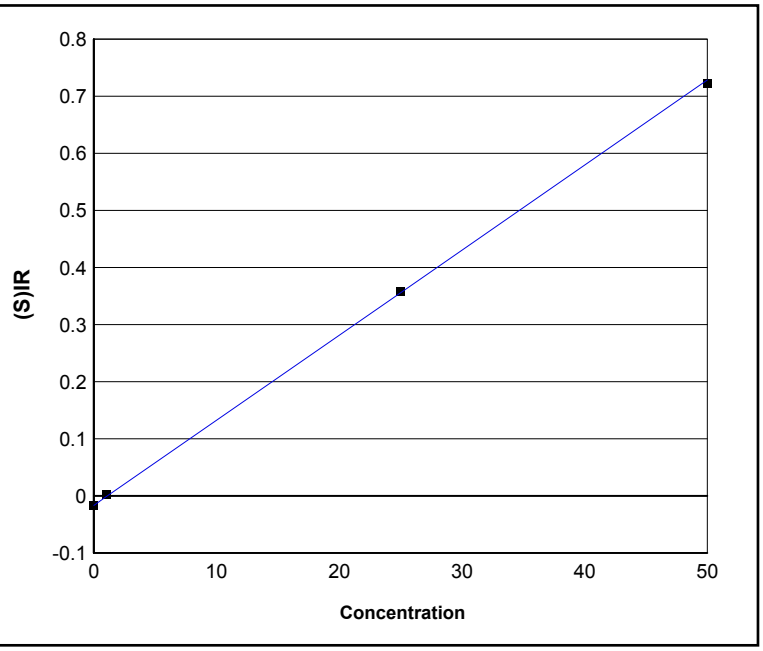
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000425	-0.0000000425	0.00000	0.00059125	0.000016109	1
IC-4130962	0.010000	0.010022	0.000022042	0.22042	0.013044	0.00018166	1
IC-4121446	0.50000	0.50207	0.0020661	0.41323	0.62441	0.0022960	1
IC-4121445	1.0000	0.99791	-0.0020882	-0.20882	1.2405	0.00040056	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0077138
A1 (Gain):	0.43782
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

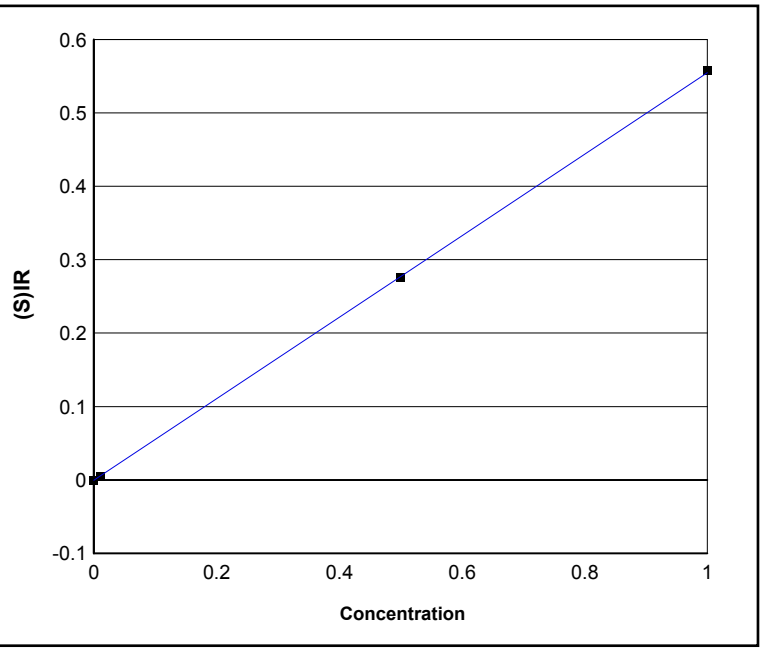
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.000022430	-0.000022430	0.00000	0.0077039	0.0092604	1
IC-4130962	1.0000	1.0239	0.023937	2.3937	0.45602	0.0012104	1
IC-4121446	25.000	24.949	-0.051390	-0.20556	10.931	0.018896	1
IC-4121445	50.000	50.027	0.027453	0.054906	21.911	0.034376	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99961
A0 (Offset):	-0.016752
A1 (Gain):	0.014903
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

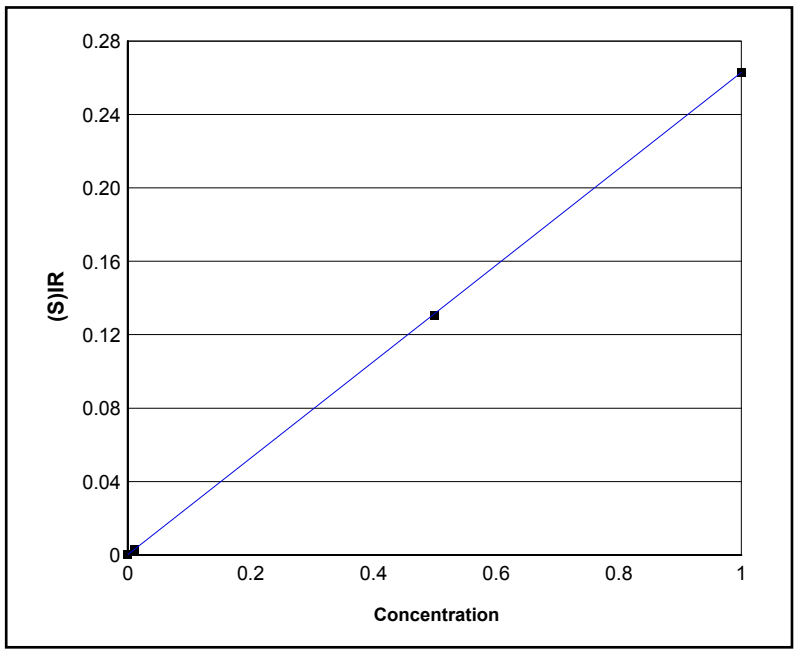
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	-0.00023374	-0.00023374	0.00000	-0.016755	0.0033203	1
IC-4130962	1.0000	1.2351	0.23514	23.514	0.0016557	0.0027160	1
IC-4121446	25.000	25.165	0.16483	0.65930	0.35828	0.00079115	1
IC-4121445	50.000	49.600	-0.39997	-0.79994	0.72244	0.0065576	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00067630
A1 (Gain):	0.55543
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

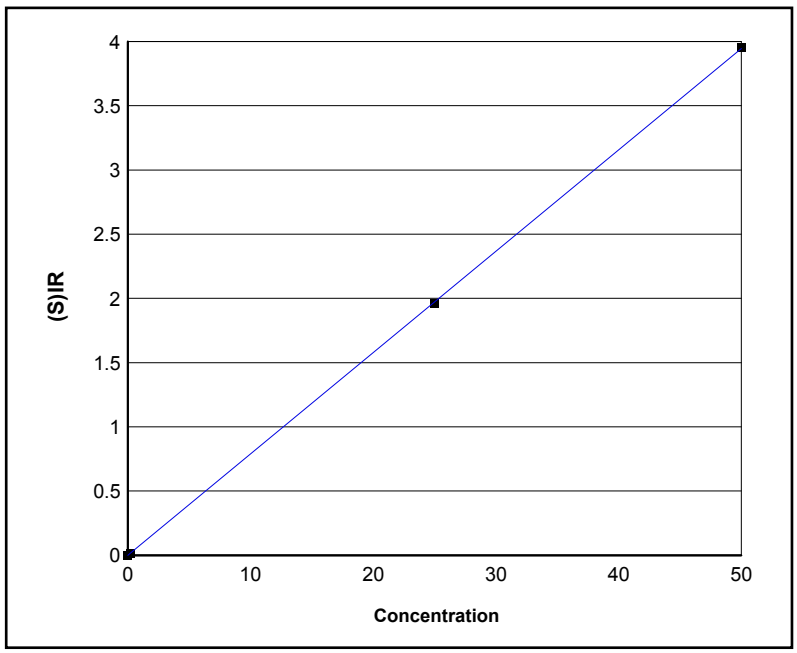
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003039	0.0000003039	0.00000	-0.00067613	0.0000089058	1
IC-4130962	0.010000	0.0097331	-0.00026689	-2.6689	0.0047303	0.000057307	1
IC-4121446	0.50000	0.49603	-0.0039699	-0.79398	0.27513	0.0012070	1
IC-4121445	1.0000	1.0042	0.0042365	0.42365	0.55770	0.00046785	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00010077
A1 (Gain):	0.26288
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

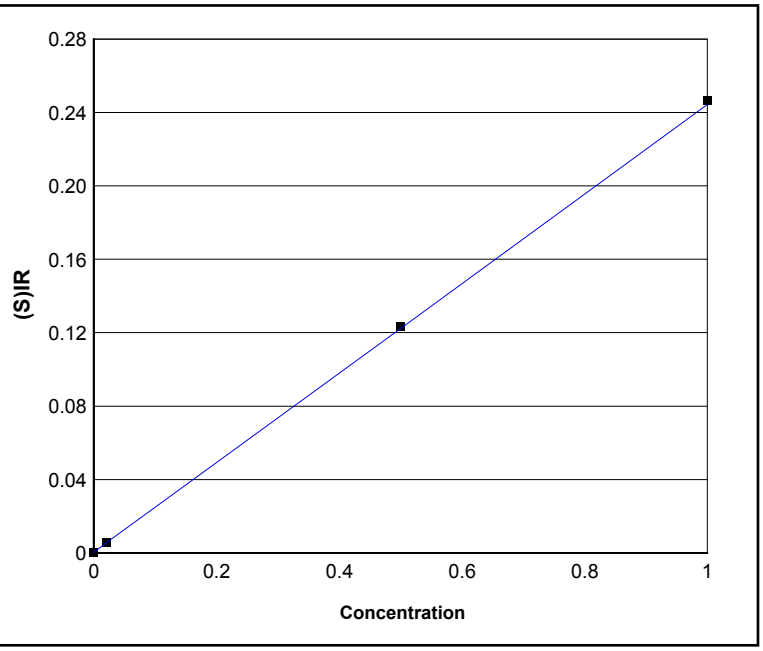
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000006692	-0.0000006692	0.00000	0.00010059	0.00013924	1
IC-4130962	0.010000	0.010699	0.00069941	6.9941	0.0029079	0.000031346	1
IC-4121446	0.50000	0.49768	-0.0023190	-0.46379	0.13066	0.00027533	1
IC-4121445	1.0000	1.0016	0.0016196	0.16196	0.26286	0.00016476	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00018609
A1 (Gain):	0.078889
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

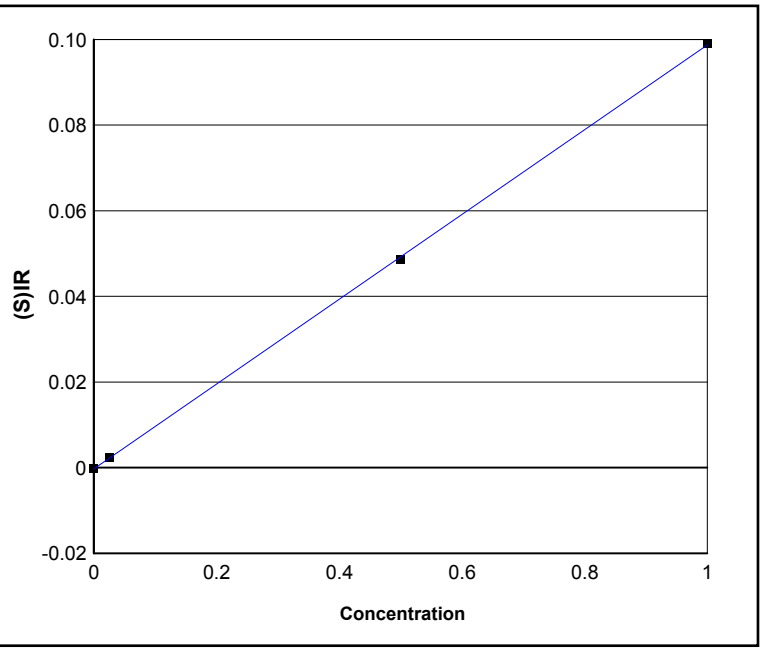
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000035131	0.0000035131	0.00000	0.00018637	0.00013043	1
IC-4130962	0.20000	0.19710	-0.0028977	-1.4488	0.015735	0.000025900	1
IC-4121446	25.000	24.843	-0.15676	-0.62704	1.9600	0.0030169	1
IC-4121445	50.000	50.160	0.15966	0.31931	3.9572	0.0019933	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00040561
A1 (Gain):	0.24388
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

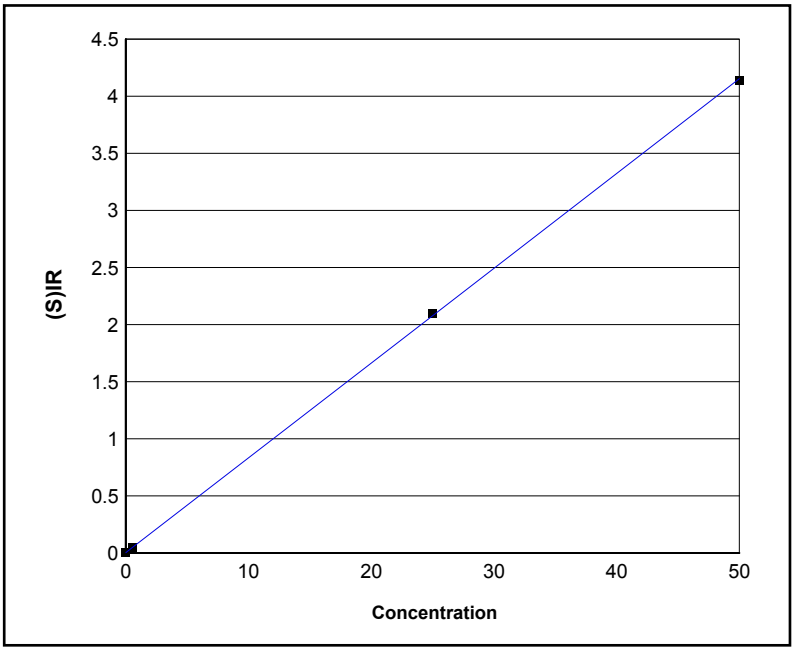
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000006914	-0.0000006914	0.00000	0.00040544	0.00038501	1
IC-4130962	0.020000	0.020718	0.00071820	3.5910	0.0054696	0.000087633	1
IC-4121446	0.50000	0.49937	-0.00062604	-0.12521	0.12322	0.00060250	1
IC-4121445	1.0000	0.99991	-0.000087784	-0.0087784	0.24633	0.00058765	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00026366
A1 (Gain):	0.099018
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

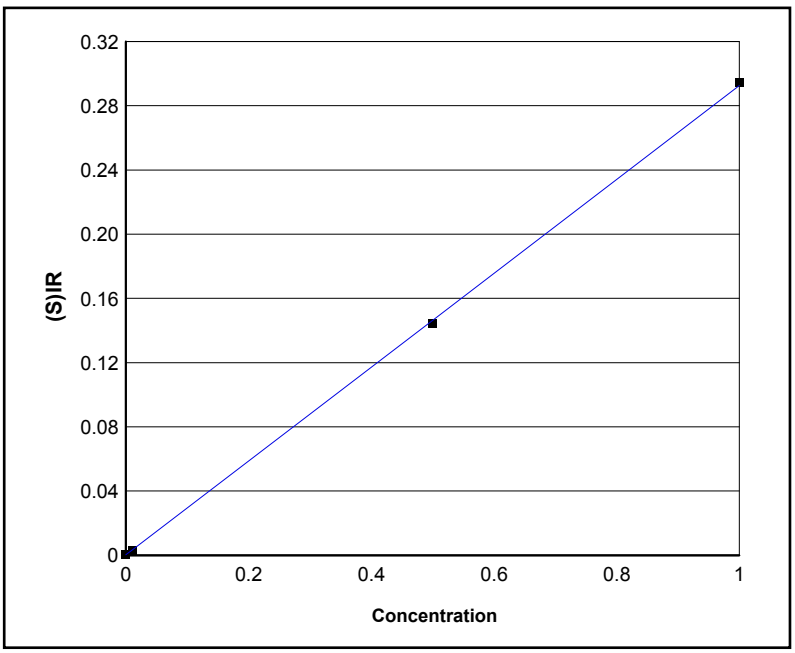
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000007351	-0.0000007351	0.00000	-0.00026373	0.00017565	1
IC-4130962	0.025000	0.025881	0.00088052	3.5221	0.0022982	0.00054576	1
IC-4121446	0.50000	0.49507	-0.0049346	-0.98692	0.048666	0.000065579	1
IC-4121445	1.0000	1.0041	0.0040528	0.40528	0.098974	0.00068050	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0033571
A1 (Gain):	0.083000
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

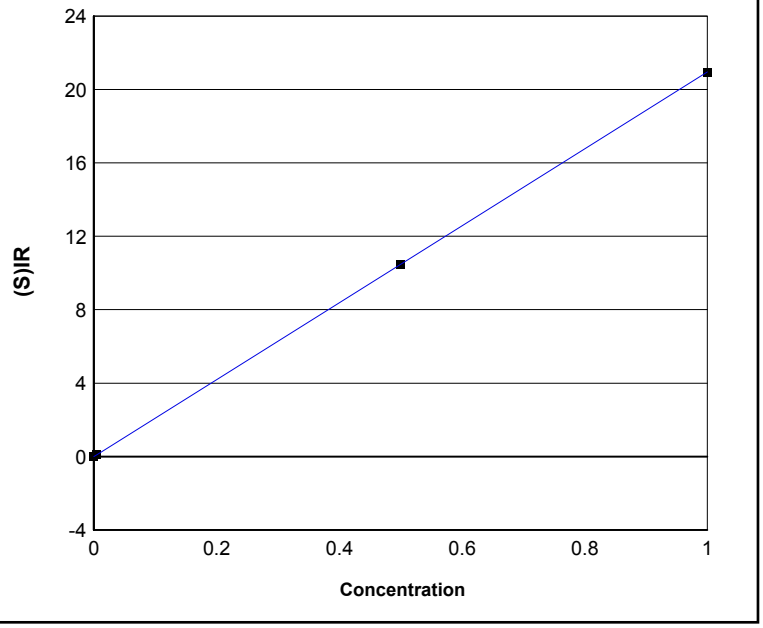
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000082609	-0.0000082609	0.00000	0.0033564	0.00030170	1
IC-4130962	0.50000	0.50655	0.0065513	1.3103	0.045401	0.00083641	1
IC-4121446	25.000	25.178	0.17751	0.71005	2.0931	0.0031741	1
IC-4121445	50.000	49.816	-0.18406	-0.36813	4.1381	0.00079807	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.00027142
A1 (Gain):	0.29234
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

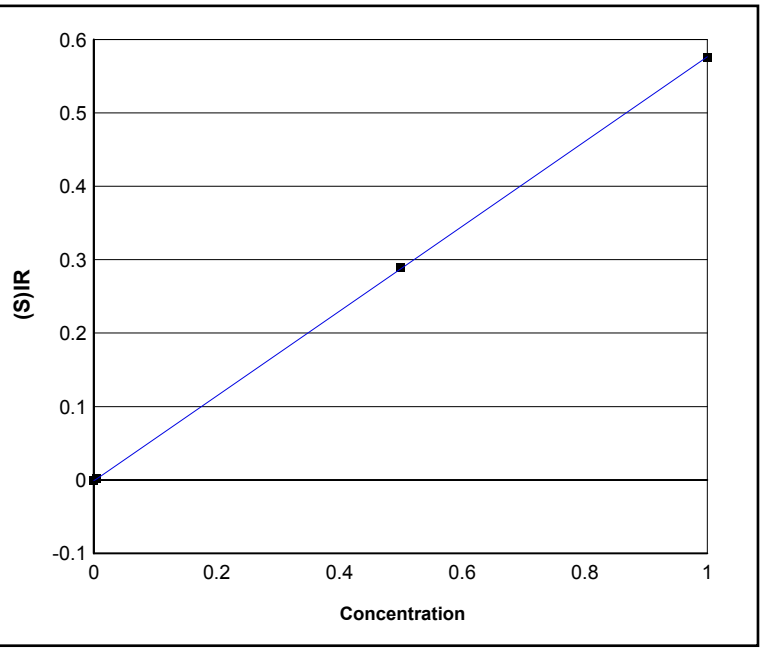
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000005805	0.0000005805	0.00000	0.00027159	0.00010048	1
IC-4130962	0.010000	0.0094822	-0.00051785	-5.1785	0.0030434	0.000043710	1
IC-4121446	0.50000	0.49322	-0.0067810	-1.3562	0.14446	0.00028115	1
IC-4121445	1.0000	1.0073	0.0072989	0.72989	0.29474	0.00019844	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0046066
A1 (Gain):	20.953
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

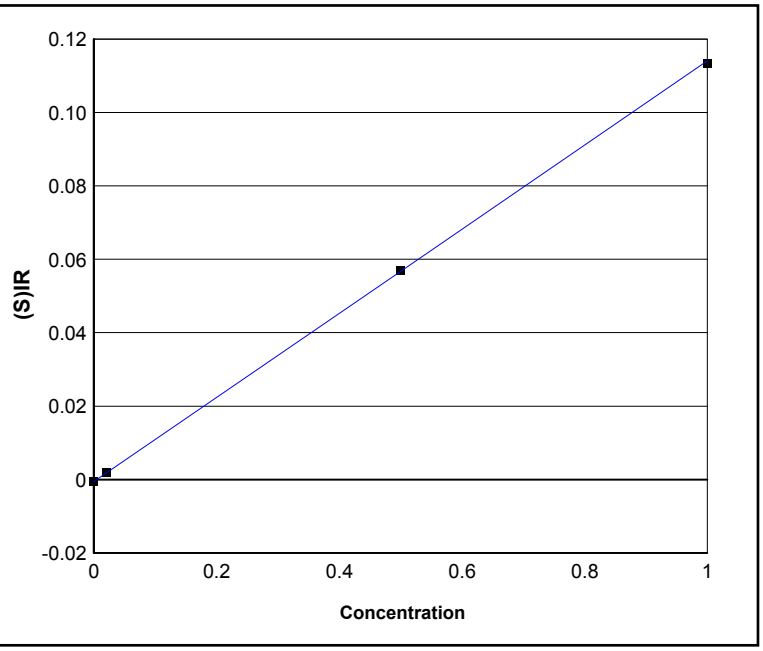
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000000654	-0.0000000654	0.00000	-0.0046079	0.0012559	1
IC-4130962	0.0050000	0.0050630	0.000063025	1.2605	0.10148	0.0027795	1
IC-4121446	0.50000	0.50053	0.00052866	0.10573	10.483	0.010564	1
IC-4121445	1.0000	0.99941	-0.00059169	-0.059169	20.936	0.034244	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0011299
A1 (Gain):	0.57761
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

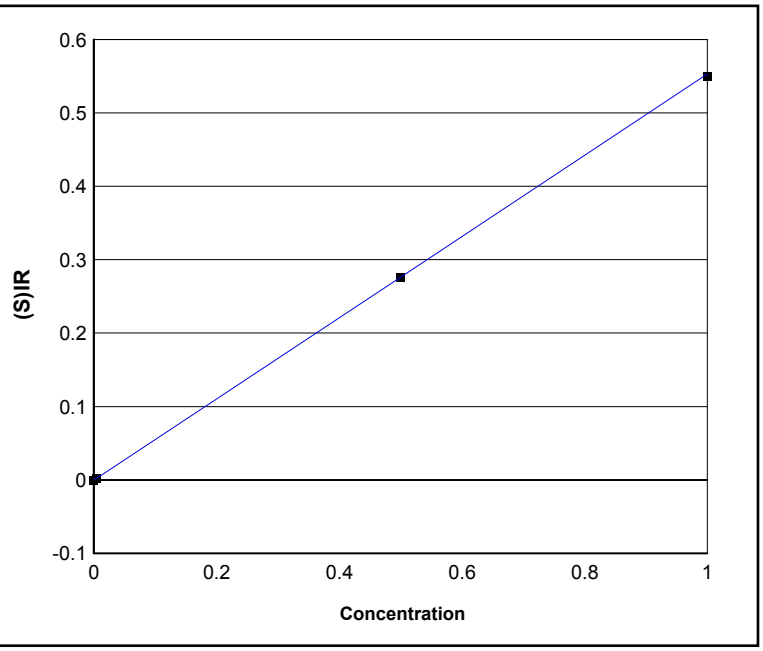
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000003875	-0.0000003875	0.00000	-0.0011301	0.000035609	1
IC-4130962	0.0050000	0.0053720	0.00037198	7.4397	0.0019802	0.00012911	1
IC-4121446	0.50000	0.50347	0.0034693	0.69386	0.29008	0.0017799	1
IC-4121445	1.0000	0.99616	-0.0038417	-0.38417	0.57507	0.0018187	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00058637
A1 (Gain):	0.11464
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

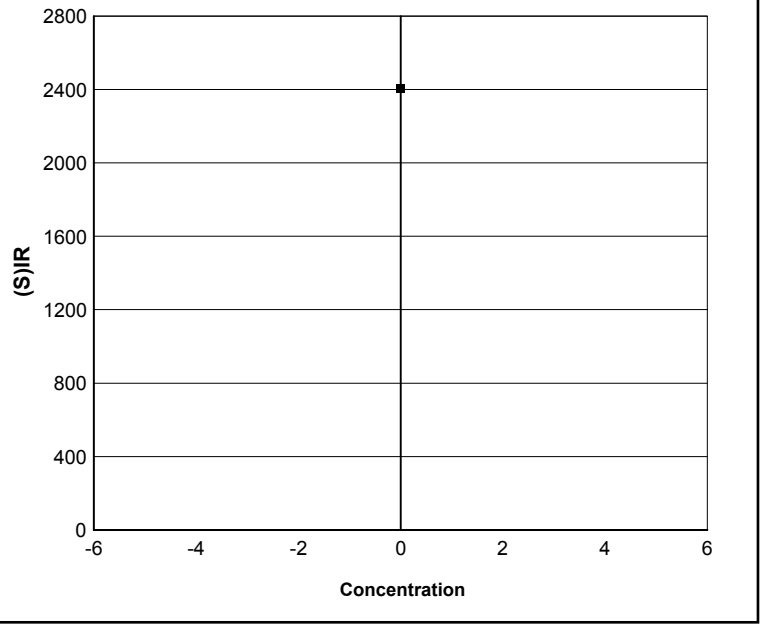
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000013844	-0.0000013844	0.00000	-0.00058652	0.000073520	1
IC-4130962	0.020000	0.021340	0.0013402	6.7009	0.0018585	0.00011664	1
IC-4121446	0.50000	0.50355	0.0035546	0.71092	0.057011	0.00022690	1
IC-4121445	1.0000	0.99510	-0.0048969	-0.48969	0.11323	0.00010427	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00020232
A1 (Gain):	0.55316
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

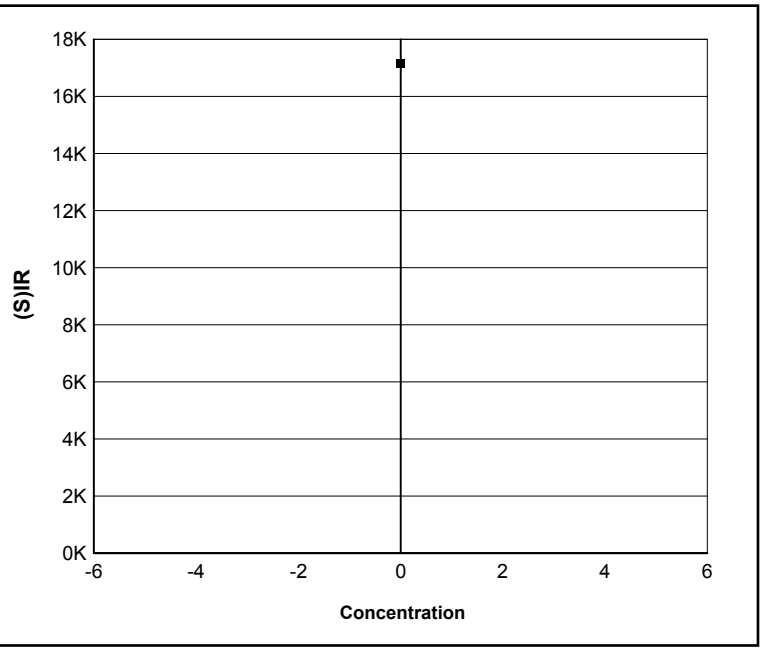
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000002452	0.0000002452	0.00000	-0.00020218	0.000059765	1
IC-4130962	0.0050000	0.0047466	-0.00025341	-5.0682	0.0023951	0.00028238	1
IC-4121446	0.50000	0.50140	0.0013953	0.27906	0.27600	0.00052984	1
IC-4121445	1.0000	0.99886	-0.0011434	-0.11434	0.55002	0.0024569	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:49:31AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

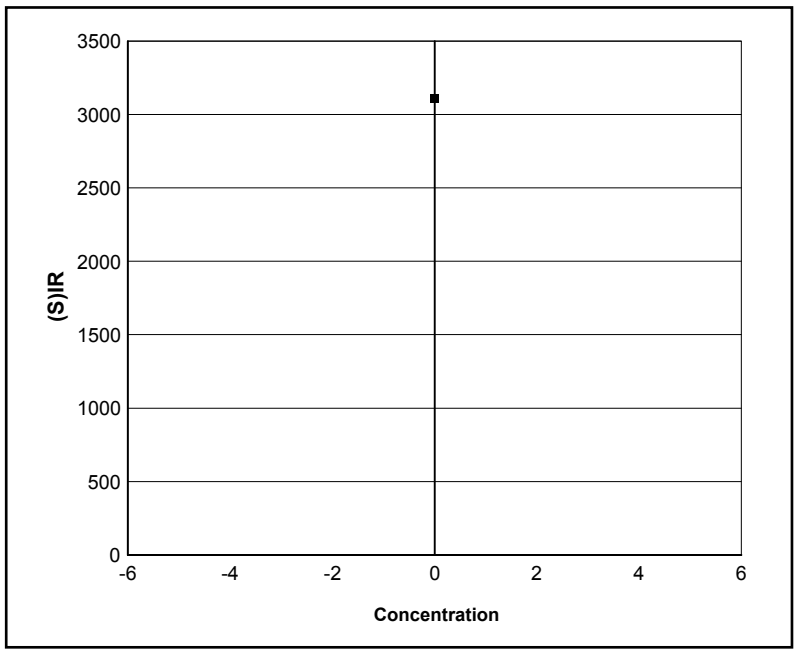
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	2,404	4.385	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:49:31AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

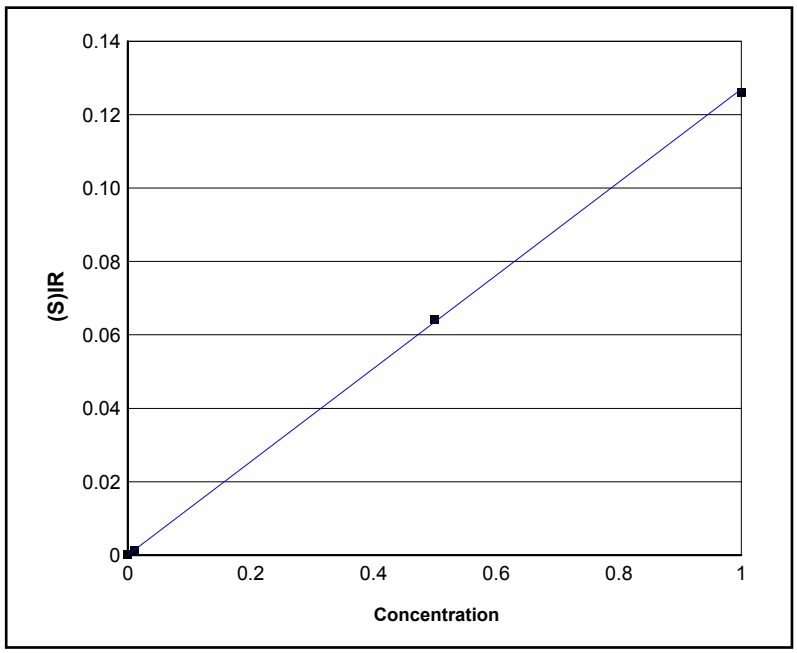
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	17,150	7.202	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:49:31AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.0000			0.0000	3,107	10.36	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	7/27/2017 7:59:27AM
Date of Fit:	7/27/2017 8:52:46AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.000043760
A1 (Gain):	0.12689
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4130963	0.00000	0.0000005640	-0.0000005640	0.00000	0.000043688	0.000081719	1
IC-4130962	0.010000	0.010515	0.00051483	5.1483	0.0013771	0.000083254	1
IC-4121446	0.50000	0.50543	0.0054280	1.0856	0.064065	0.00030374	1
IC-4121445	1.0000	0.99406	-0.0059433	-0.59433	0.12595	0.00027404	1

Sample Name: ICIS-4130963 Acquired: 7/27/2017 7:46:05 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00003**	**.00232**	**-.00028**	**.00285**	**.01577**
Stddev	.00002	.00014	.00001	.00009	.00108
%RSD	81.838	5.8500	1.7999	2.9985	6.8494
#1	-.00004	.00242	-.00028	.00291	.01654
#2	-.00001	.00223	-.00028	.00279	.01501

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00763**	**-.00062**	**.01015**	**.00000**	**.0007**
Stddev	.00022	.00127	.00028	.00040	.0013
%RSD	2.8853	203.49	2.7919	14160.	179.4
#1	.00747	-.00152	.00995	.00029	.0016
#2	.00778	.00027	.01035	-.00028	-.0002

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00021**	**-.00010**	**.00031**	**.00134**	**-.00011**
Stddev	.00013	.00013	.00039	.00017	.00059
%RSD	63.095	129.02	124.41	12.976	529.58
#1	-.00011	-.00001	.00004	.00121	.00031
#2	-.00030	-.00019	.00059	.00146	-.00053

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00661**	**-.00169**	**-.00006**	**.00074**	**.00021**
Stddev	.00003	.00177	.00007	.00010	.00009
%RSD	.38657	105.00	108.24	13.918	40.951
#1	-.00659	-.00294	-.00001	.00081	.00028
#2	-.00663	-.00043	-.00011	.00066	.00015

Sample Name: ICIS-4130963 Acquired: 7/27/2017 7:46:05 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00059**	**.00770**	**-.01676**	**-.00068**	**.00010**
Stddev	.00002	.00926	.00332	.00001	.00014
%RSD	2.7246	120.20	19.816	1.3172	138.41
#1	.00058	.01425	-.01441	-.00067	.00000
#2	.00060	.00116	-.01910	-.00068	.00020

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00019**	**.00041**	**-.00026**	**.00336**	**.00027**
Stddev	.00013	.00039	.00018	.00030	.00010
%RSD	69.982	94.961	66.603	8.9888	36.997
#1	.00009	.00013	-.00039	.00314	.00020
#2	.00028	.00068	-.00014	.00357	.00034

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00461**	**-.00113**	**-.00059**	**-.00020**	**.00004**
Stddev	.00126	.00004	.00007	.00006	.00008
%RSD	27.254	3.1509	12.535	29.559	187.05
#1	-.00372	-.00110	-.00064	-.00016	-.00001
#2	-.00550	-.00116	-.00053	-.00024	.00010

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3738.2**	**2404.2**	**17149.**	**3107.4**
Stddev	3.7	4.4	7.	10.4
%RSD	.10021	.18237	.04200	.33337
#1	3735.6	2401.1	17144.	3100.0
#2	3740.9	2407.3	17154.	3114.7

Sample Name: IC-4130962 Acquired: 7/27/2017 7:49:35 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00233**	**.01410**	**.00180**	**.01742**	**.03314**
Stddev	.00075	.00067	.00021	.00033	.00198
%RSD	32.299	4.7654	11.731	1.8815	5.9704
#1	.00180	.01362	.00165	.01719	.03174
#2	.00287	.01457	.00195	.01766	.03453

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06740**	**.02731**	**.20607**	**.00856**	**.00570**
Stddev	.00041	.00012	.00245	.00011	.00010
%RSD	.61444	.45134	1.1878	1.2795	1.6943
#1	.06710	.02740	.20780	.00848	.00577
#2	.06769	.02722	.20434	.00863	.00563

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00150**	**.00431**	**.01569**	**.00031**	**.05038**
Stddev	.00003	.00011	.00076	.00008	.00076
%RSD	1.9705	2.6283	4.8646	26.239	1.5031
#1	.00148	.00439	.01515	.00025	.04985
#2	.00152	.00423	.01623	.00037	.05092

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.07636**	**.00796**	**.00895**	**.00092**	**.01304**
Stddev	.00174	.00001	.00001	.00008	.00018
%RSD	2.2723	.06823	.14957	9.1481	1.3927
#1	.07759	.00797	.00896	.00086	.01317
#2	.07513	.00796	.00894	.00098	.01292

Sample Name: IC-4130962 Acquired: 7/27/2017 7:49:35 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.45602**	**.00166**	**.00473**	**.00291**	**.01574**
Stddev	.00121	.00272	.00006	.00003	.00003
%RSD	.26543	164.04	1.2115	1.0780	.16460
#1	.45516	.00358	.00469	.00293	.01575
#2	.45687	-.00026	.00477	.00289	.01572

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00547**	**.00230**	**.04540**	**.00304**	**.10148**
Stddev	.00009	.00055	.00084	.00004	.00278
%RSD	1.6022	23.748	1.8423	1.4362	2.7389
#1	.00541	.00191	.04599	.00307	.09951
#2	.00553	.00268	.04481	.00301	.10345

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00198**	**.00186**	**.00240**	**.00138**
Stddev	.00013	.00012	.00028	.00008
%RSD	6.5200	6.2761	11.790	6.0456
#1	.00207	.00194	.00220	.00132
#2	.00189	.00178	.00259	.00144

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3756.4**	**2425.7**	**17280.**	**3161.6**
Stddev	8.1	6.4	32.	28.0
%RSD	.21533	.26241	.18498	.88562
#1	3762.1	2430.2	17302.	3181.4
#2	3750.7	2421.2	17257.	3141.8

Sample Name: IC-4121446 Acquired: 7/27/2017 7:53:03 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.22731**	**1.3653**	**.06025**	**.37182**	**4.8795**
Stddev	.00017	.0036	.00012	.00005	.0009
%RSD	.07458	.26007	.19123	.01422	.01908
#1	.22743	1.3628	.06033	.37178	4.8788
#2	.22719	1.3678	.06017	.37186	4.8802

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.473**	**6.6662**	**9.6806**	**1.8663**	**.0406**
Stddev	.031	.0153	.0047	.0045	.0010
%RSD	.21344	.22983	.04847	.24062	2.513
#1	14.451	6.6553	9.6840	1.8695	.0413
#2	14.495	6.6770	9.6773	1.8631	.0399

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.73541**	**.19449**	**.20508**	**7.0336**	**.42523**
Stddev	.00163	.00090	.00050	.0068	.00229
%RSD	.22140	.46367	.24343	.09708	.53839
#1	.73656	.19385	.20543	7.0288	.42685
#2	.73426	.19513	.20472	7.0385	.42361

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.7871**	**1.3943**	**.99472**	**1.3168**	**.14247**
Stddev	.0020	.0075	.00590	.0030	.00055
%RSD	.07303	.53924	.59290	.22646	.38354
#1	2.7886	1.3996	.99055	1.3147	.14209
#2	2.7857	1.3890	.99889	1.3189	.14286

Sample Name: IC-4121446 Acquired: 7/27/2017 7:53:03 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.62441**	**10.931**	**.35828**	**.27513**	**.13066**
Stddev	.00230	.019	.00079	.00121	.00028
%RSD	.36770	.17287	.22082	.43870	.21072
#1	.62603	10.917	.35772	.27598	.13047
#2	.62278	10.944	.35884	.27427	.13085

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.9600**	**.12322**	**.04867**	**2.0931**	**.14446**
Stddev	.0030	.00060	.00007	.0032	.00028
%RSD	.15392	.48894	.13475	.15165	.19463
#1	1.9622	.12365	.04862	2.0908	.14466
#2	1.9579	.12280	.04871	2.0953	.14426

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.483**	**.29008**	**.05701**	**.27600**	**.06406**
Stddev	.011	.00178	.00023	.00053	.00030
%RSD	.10077	.61359	.39799	.19197	.47412
#1	10.491	.28882	.05717	.27562	.06385
#2	10.476	.29134	.05685	.27637	.06428

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3394.0**	**2362.4**	**16642.**	**3124.7**
Stddev	3.2	1.1	67.	5.8
%RSD	.09433	.04830	.40089	.18644
#1	3396.3	2363.2	16690.	3128.8
#2	3391.7	2361.6	16595.	3120.5

Sample Name: IC-4121445 Acquired: 7/27/2017 7:56:16 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.45593**	**2.7358**	**.12179**	**.73865**	**9.7349**
Stddev	.00129	.0050	.00011	.00012	.0144
%RSD	.28187	.18216	.08824	.01569	.14839
#1	.45502	2.7394	.12186	.73857	9.7451
#2	.45684	2.7323	.12171	.73873	9.7247

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**28.191**	**13.140**	**19.225**	**3.7359**	**.0806**
Stddev	.321	.050	.048	.0025	.0004
%RSD	1.1393	.38261	.25056	.06583	.5308
#1	27.964	13.176	19.259	3.7377	.0809
#2	28.418	13.104	19.191	3.7342	.0803

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.4898**	**.38176**	**.40986**	**13.942**	**.84005**
Stddev	.0017	.00104	.00069	.037	.00050
%RSD	.11562	.27296	.16884	.26635	.05946
#1	1.4886	.38102	.40937	13.968	.83970
#2	1.4910	.38250	.41035	13.915	.84041

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.5598**	**2.7900**	**1.9705**	**2.5872**	**.28528**
Stddev	.0129	.0063	.0051	.0090	.00166
%RSD	.23207	.22654	.26058	.34670	.58112
#1	5.5690	2.7945	1.9669	2.5808	.28410
#2	5.5507	2.7856	1.9742	2.5935	.28645

Sample Name: IC-4121445 Acquired: 7/27/2017 7:56:16 Type: Cal
Method: ICAP2 June 2017(v62) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.2405**	**21.911**	**.72244**	**.55770**	**.26286**
Stddev	.0004	.034	.00656	.00047	.00016
%RSD	.03229	.15689	.90770	.08389	.06268
#1	1.2402	21.935	.72708	.55803	.26275
#2	1.2408	21.887	.71781	.55736	.26298

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.9572**	**.24633**	**.09897**	**4.1381**	**.29474**
Stddev	.0020	.00059	.00068	.0008	.00020
%RSD	.05037	.23856	.68755	.01929	.06733
#1	3.9586	.24591	.09946	4.1386	.29460
#2	3.9558	.24674	.09849	4.1375	.29488

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**20.936**	**.57507**	**.11323**	**.55002**	**.12595**
Stddev	.034	.00182	.00010	.00246	.00027
%RSD	.16356	.31626	.09208	.44669	.21757
#1	20.960	.57378	.11330	.54828	.12576
#2	20.912	.57635	.11316	.55175	.12615

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3223.1**	**2320.1**	**16438.**	**3125.8**
Stddev	6.2	3.3	111.	11.7
%RSD	.19179	.14180	.67307	.37414
#1	3227.4	2322.4	16517.	3117.5
#2	3218.7	2317.7	16360.	3134.1

Sample Name: ICV-4147886 Acquired: 7/27/2017 7:59:28 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36796**	**18.851**	**.37715**	**.38024**	**.37736**
Stddev	.00273	.072	.00017	.00097	.00039
%RSD	.74069	.38443	.04468	.25443	.10222
#1	.36604	18.902	.37727	.37956	.37763
#2	.36989	18.800	.37703	.38092	.37708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38242**	**18.819**	**.37773**	**-.0068**	**.37048**
Stddev	.00073	.088	.00017	.0241	.00063
%RSD	.19217	.46954	.04581	354.7	.17004
#1	.38294	18.882	.37785	.0103	.37003
#2	.38190	18.757	.37761	-.0239	.37092
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38599**	**.38398**	**18.538**	**18.832**	**.37554**
Stddev	.00103	.00061	.139	.113	.00178
%RSD	.26571	.15904	.75090	.60016	.47304
#1	.38672	.38441	18.636	18.911	.37680
#2	.38527	.38355	18.440	18.752	.37429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4147886 Acquired: 7/27/2017 7:59:28 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.870**	**.38859**	**.37787**	**18.744**	**.37522**
Stddev	.057	.00085	.00006	.052	.00007
%RSD	.30432	.21775	.01548	.27824	.01959
#1	18.910	.38919	.37782	18.781	.37516
#2	18.829	.38800	.37791	18.707	.37527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37361**	**18.523**	**.37389**	**.37272**	**18.376**
Stddev	.00080	.003	.00019	.00041	.047
%RSD	.21524	.01387	.05011	.11128	.25371
#1	.37304	18.521	.37376	.37242	18.409
#2	.37418	18.525	.37402	.37301	18.343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37738**	**.37228**	**.38007**	**.38207**	**.37525**
Stddev	.00085	.00245	.00145	.00229	.00126
%RSD	.22498	.65770	.38236	.60045	.33636
#1	.37678	.37401	.38110	.38045	.37436
#2	.37798	.37055	.37905	.38369	.37614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4147886 Acquired: 7/27/2017 7:59:28 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.38761
Stddev	.00050
%RSD	.12905
#1	.38725
#2	.38796
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3464.7	2383.3	16895.	3157.8
Stddev	.1	.9	10.	15.7
%RSD	.00257	.03901	.05972	.49632
#1	3464.8	2382.7	16902.	3146.7
#2	3464.7	2384.0	16888.	3168.9

Sample Name: ICB-4130963 Acquired: 7/27/2017 8:02:38 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00133**	**.02691**	**.00164**	**.00027**	**.00002**
Stddev	.00082	.02331	.00098	.00026	.00002
%RSD	61.610	86.625	59.544	94.356	92.419
#1	-.00190	.04340	.00233	.00045	.00001
#2	-.00075	.01043	.00095	.00009	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00047**	**-.00002**	**.0041**	**.00005**
Stddev	.00002	.00054	.00001	.0076	.00000
%RSD	41.606	113.11	57.132	186.3	8.1120
#1	-.00004	.00085	-.00003	.0094	.00005
#2	-.00007	.00009	-.00001	-.0013	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00024**	**.00123**	**-.00323**	**-.00182**
Stddev	.00039	.00041	.00063	.03676	.00193
%RSD	63.502	171.69	50.813	1137.6	106.16
#1	.00089	-.00053	.00079	-.02922	-.00318
#2	.00034	.00005	.00168	.02276	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4130963 Acquired: 7/27/2017 8:02:38 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.00001**	**.00003**	**-.00646**	**.00016**
Stddev	.00268	.00008	.00026	.00972	.00025
%RSD	460.33	949.43	751.05	150.56	160.21
#1	.00131	-.00005	.00022	-.01333	-.00002
#2	-.00247	.00007	-.00015	.00042	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**.00781**	**.00107**	**-.00251**	**.01362**
Stddev	.00037	.00257	.00033	.00306	.00696
%RSD	47.695	32.929	30.678	121.85	51.105
#1	.00052	.00963	.00084	-.00035	.01854
#2	.00104	.00599	.00131	-.00468	.00870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00013**	**.00023**	**.00215**	**-.00001**
Stddev	.00017	.00014	.00042	.00025	.00017
%RSD	43.101	104.74	177.20	11.760	3210.7
#1	-.00028	.00003	.00053	.00233	-.00012
#2	-.00052	.00023	-.00006	.00197	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4130963 Acquired: 7/27/2017 8:02:38 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00198**
Stddev	.00029
%RSD	14.729
#1	.00178
#2	.00219
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3743.4**	**2402.0**	**17150.**	**3157.6**
Stddev	1.9	3.0	64.	10.2
%RSD	.05186	.12616	.37150	.32323
#1	3742.0	2399.9	17105.	3164.8
#2	3744.8	2404.1	17195.	3150.4

Sample Name: ICVL-4147888 Acquired: 7/27/2017 8:06:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.20513**	**.01861**	**.01974**	**.00212**
Stddev	.00065	.01029	.00258	.00008	.00002
%RSD	11.051	5.0161	13.863	.39802	.96282
#1	.00635	.19785	.01678	.01969	.00213
#2	.00543	.21241	.02043	.01980	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00212**	**.50356**	**.00210**	**.0107**	**.00408**
Stddev	.00007	.00363	.00006	.0313	.00010
%RSD	3.2626	.72099	2.6180	291.7	2.4495
#1	.00217	.50100	.00214	.0328	.00401
#2	.00207	.50613	.00207	-.0114	.00415
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**.00986**	**.04883**	**.52721**	**.02943**
Stddev	.00004	.00070	.00209	.02423	.00005
%RSD	.86809	7.1229	4.2824	4.5950	.17014
#1	.00437	.01036	.04735	.54434	.02939
#2	.00432	.00936	.05031	.51008	.02946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4147888 Acquired: 7/27/2017 8:06:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20003**	**.00310**	**.00999**	**.99721**	**.00995**
Stddev	.00262	.00001	.00023	.00839	.00014
%RSD	1.3092	.38256	2.3467	.84136	1.3667
#1	.20188	.00310	.01015	.99128	.00986
#2	.19818	.00309	.00982	1.0031	.01005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01060**	**.19467**	**.02022**	**.02572**	**.50874**
Stddev	.00035	.00179	.00001	.00275	.00425
%RSD	3.3086	.91967	.05040	10.712	.83527
#1	.01035	.19594	.02023	.02766	.50573
#2	.01085	.19341	.02021	.02377	.51174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00954**	**.00502**	**.00509**	**.02245**	**.00485**
Stddev	.00054	.00002	.00026	.00103	.00010
%RSD	5.6456	.35795	5.1889	4.5952	2.0254
#1	.00992	.00501	.00527	.02318	.00492
#2	.00916	.00504	.00490	.02172	.00478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4147888 Acquired: 7/27/2017 8:06:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01063
Stddev	.00072
%RSD	6.8168
#1	.01114
#2	.01011
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3737.5	2409.8	17309.	3158.0
Stddev	6.6	2.7	31.	11.1
%RSD	.17573	.11194	.18099	.35007
#1	3742.1	2411.7	17331.	3165.8
#2	3732.8	2407.9	17286.	3150.1

Sample Name: ICSA-4090634 Acquired: 7/27/2017 8:09:27 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**503.63**	**-.00115**	**-.00171**	**.00081**
Stddev	.00062	.59	.00457	.00041	.00002
%RSD	59.993	.11742	398.95	24.145	2.6051
#1	-.00146	504.05	-.00438	-.00200	.00080
#2	-.00059	503.21	.00209	-.00142	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**469.06**	**-.00021**	**.0781**	**-.00059**
Stddev	.00012	1.18	.00016	.0088	.00024
%RSD	131.79	.25163	75.096	11.26	41.226
#1	-.00001	468.23	-.00010	.0844	-.00042
#2	-.00018	469.90	-.00032	.0719	-.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00642**	**187.64**	**.06106**	**-.02208**
Stddev	.00015	.00017	.40	.00663	.00077
%RSD	37.782	2.6669	.21308	10.857	3.4840
#1	.00051	-.00629	187.92	.05637	-.02262
#2	.00030	-.00654	187.35	.06575	-.02154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 7/27/2017 8:09:27 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**516.79**	**.00029**	**-.00134**	**.04229**	**-.00169**
Stddev	1.05	.00003	.00023	.00198	.00027
%RSD	.20331	11.863	17.019	4.6783	16.052
#1	516.05	.00031	-.00118	.04089	-.00150
#2	517.54	.00026	-.00150	.04369	-.00189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.04539**	**.00138**	**.00251**	**.05116**
Stddev	.00174	.00157	.00014	.00317	.00297
%RSD	172.87	3.4554	10.241	126.48	5.8120
#1	-.00022	.04650	.00128	.00027	.05327
#2	.00223	.04428	.00148	.00475	.04906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.03131**	**.00118**	**.00027**	**.00180**
Stddev	.00024	.00008	.00028	.00003	.00145
%RSD	39.586	.26922	23.491	9.9850	80.233
#1	.00078	.03125	.00098	.00029	.00282
#2	.00044	.03137	.00138	.00025	.00078
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 7/27/2017 8:09:27 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00617
Stddev	.00023
%RSD	3.8074
#1	.00600
#2	.00633
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2717.6	2153.7	14940.	3050.7
Stddev	1.4	1.9	9.	2.4
%RSD	.05039	.08740	.05704	.07993
#1	2718.6	2152.4	14946.	3049.0
#2	2716.6	2155.0	14934.	3052.4

Sample Name: ICSAB-4093406 Acquired: 7/27/2017 8:12:52 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22211**	**531.56**	**.10872**	**.00111**	**.49517**
Stddev	.00170	2.00	.00064	.00015	.00068
%RSD	.76574	.37614	.59171	13.901	.13665
#1	.22091	532.97	.10918	.00100	.49469
#2	.22331	530.14	.10827	.00122	.49565
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50300**	**471.25**	**1.0029**	**.0209**	**.49138**
Stddev	.00057	2.75	.0010	.0022	.00018
%RSD	.11311	.58412	.10021	10.45	.03656
#1	.50340	469.30	1.0022	.0224	.49125
#2	.50259	473.20	1.0036	.0194	.49151
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48503**	**.51909**	**95.730**	**.01114**	**.48882**
Stddev	.00096	.00183	.073	.01407	.00167
%RSD	.19781	.35262	.07605	126.29	.34090
#1	.48571	.51779	95.782	.02109	.49000
#2	.48435	.52038	95.679	.00119	.48764
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-4093406 Acquired: 7/27/2017 8:12:52 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**539.58**	**.50204**	**-.00044**	**.16540**	**.97035**
Stddev	.38	.00072	.00020	.00425	.00143
%RSD	.07040	.14410	45.814	2.5696	.14767
#1	539.31	.50255	-.00030	.16239	.96933
#2	539.85	.50153	-.00059	.16840	.97136
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04984**	**1.0122**	**.59224**	**.05392**	**1.0041**
Stddev	.00067	.0002	.00010	.00682	.0111
%RSD	1.3464	.02222	.01611	12.641	1.1082
#1	.05031	1.0120	.59230	.04910	1.0120
#2	.04936	1.0123	.59217	.05874	.99628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00137**	**.47868**	**.00324**	**.09569**	**.51253**
Stddev	.00057	.00031	.00050	.00120	.00022
%RSD	41.756	.06527	15.459	1.2592	.04207
#1	.00177	.47846	.00289	.09654	.51238
#2	.00096	.47890	.00360	.09484	.51269
Check ?	None	None	None	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICSAB-4093406 Acquired: 7/27/2017 8:12:52 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.94047**
Stddev	.00068
%RSD	.07185
#1	.94095
#2	.93999
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2734.5**	**2164.7**	**14884.**	**3114.7**
Stddev	2.7	1.8	17.	8.2
%RSD	.09971	.08242	.11439	.26203
#1	2736.4	2165.9	14896.	3109.0
#2	2732.6	2163.4	14872.	3120.5

Sample Name: ICEX1 Acquired: 7/27/2017 8:16:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.13009**	**4.9366**	**-.00099**	**.00007**
Stddev	.00072	.02816	.0003	.00030	.00002
%RSD	139.04	21.650	.00499	30.842	24.929
#1	-.00001	.15000	4.9368	-.00077	.00008
#2	-.00103	.11017	4.9365	-.00120	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.05381**	**.00129**	**.0058**	**.00020**
Stddev	.00004	.00364	.00003	.0275	.00008
%RSD	7.0634	6.7661	2.5531	476.1	37.224
#1	.00055	.05639	.00131	.0252	.00026
#2	.00050	.05124	.00127	-.0137	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**25.739**	**.00467**	**.03127**	**-.00015**
Stddev	.00007	.006	.00031	.03193	.00101
%RSD	34.509	.02341	6.6078	102.11	687.89
#1	-.00026	25.744	.00446	.00869	-.00086
#2	-.00016	25.735	.00489	.05385	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 7/27/2017 8:16:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00837**	**.00030**	**-.00013**	**.02285**	**.00000**
Stddev	.00330	.00007	.00018	.01558	.00001
%RSD	39.420	22.169	137.04	68.162	418.61
#1	.00604	.00034	-.00000	.03387	.00001
#2	.01070	.00025	-.00026	.01184	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00271**	**.00876**	**.00083**	**-.00258**	**.05096**
Stddev	.00077	.00071	.00027	.00028	.00820
%RSD	28.423	8.1537	32.942	10.981	16.094
#1	-.00325	.00927	.00064	-.00279	.04516
#2	-.00216	.00826	.00102	-.00238	.05676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00003**	**.00073**	**.00150**	**5.0479**
Stddev	.00019	.00001	.00077	.00006	.0039
%RSD	221.11	43.455	106.60	3.7960	.07639
#1	-.00005	.00004	.00127	.00154	5.0506
#2	.00023	.00002	.00018	.00146	5.0451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 7/27/2017 8:16:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00351
Stddev	.00026
%RSD	7.3140
#1	.00333
#2	.00369
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3728.2	2405.5	17193.	3172.5
Stddev	5.4	.5	36.	11.9
%RSD	.14457	.02056	.20723	.37400
#1	3724.4	2405.2	17168.	3164.1
#2	3732.0	2405.9	17218.	3180.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.732%	100.06%	100.26%	102.10%
Range				

Sample Name: ICEX2 Acquired: 7/27/2017 8:19:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00286**	**.07126**	**-.00002**	**.00979**	**.00002**
Stddev	.00104	.00407	.00028	.00000	.00000
%RSD	36.168	5.7095	1374.1	.04932	11.322
#1	-.00360	.07413	-.00022	.00979	.00001
#2	-.00213	.06838	.00018	.00979	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.02678**	**.00058**	**-.0095**	**.00145**
Stddev	.00007	.00133	.00005	.0328	.00013
%RSD	487.42	4.9782	8.3980	344.2	9.1771
#1	.00006	.02773	.00061	.0137	.00136
#2	-.00004	.02584	.00054	-.0327	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**-.00584**	**-.00246**	**.01857**	**-.00067**
Stddev	.00033	.00023	.00098	.03204	.00009
%RSD	30.232	3.9774	39.883	172.55	13.752
#1	.00132	-.00567	-.00315	.04122	-.00060
#2	.00085	-.00600	-.00176	-.00409	-.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 7/27/2017 8:19:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02753**	**.00202**	**-.00007**	**.02009**	**.00470**
Stddev	.00057	.00009	.00003	.00198	.00029
%RSD	2.0651	4.3811	41.160	9.8646	6.1800
#1	.02713	.00196	-.00009	.02149	.00449
#2	.02793	.00208	-.00005	.01869	.00490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**.00850**	**.00566**	**-.00132**	**.41303**
Stddev	.00019	.00099	.00162	.00160	.03343
%RSD	12.360	11.599	28.548	121.16	8.0931
#1	.00166	.00780	.00681	-.00019	.38939
#2	.00140	.00920	.00452	-.00245	.43667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00009**	**19.351**	**19.779**	**-.00173**
Stddev	.00016	.00001	.027	.002	.00011
%RSD	24.538	6.5690	.14017	.00790	6.4097
#1	-.00054	.00010	19.370	19.778	-.00181
#2	-.00077	.00009	19.332	19.780	-.00165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 7/27/2017 8:19:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00200
Stddev	.00001
%RSD	.72797
#1	.00199
#2	.00201
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3702.7	2404.8	17228.	3163.4
Stddev	.6	.9	12.	8.8
%RSD	.01722	.03825	.07211	.27804
#1	3702.2	2404.1	17219.	3169.6
#2	3703.1	2405.4	17236.	3157.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.049%	100.02%	100.46%	101.80%
Range				

Sample Name: ICEX3 Acquired: 7/27/2017 8:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00395**	**.05346**	**.00483**	**-.00114**	**.00010**
Stddev	.00079	.00768	.00040	.00027	.00001
%RSD	20.121	14.369	8.3304	23.315	14.735
#1	-.00339	.04802	.00455	-.00133	.00009
#2	-.00451	.05889	.00512	-.00095	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.03948**	**.00030**	**-.1448**	**.00011**
Stddev	.00006	.00289	.00010	.0024	.00001
%RSD	320.93	7.3151	32.294	1.682	13.174
#1	.00006	.04152	.00023	-.1431	.00010
#2	-.00002	.03743	.00036	-.1465	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00188**	**.00010**	**.01444**	**-.00136**
Stddev	.00001	.00005	.00176	.04978	.00004
%RSD	2.3138	2.6672	1774.8	344.65	2.9818
#1	.00060	.00192	.00135	.04964	-.00133
#2	.00062	.00185	-.00115	-.02076	-.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 7/27/2017 8:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04724**	**51.515**	**-.00228**	**-.00852**	**.00060**
Stddev	.00224	.149	.00009	.00164	.00028
%RSD	4.7325	.28841	3.7298	19.295	46.124
#1	-.04566	51.620	-.00222	-.00736	.00041
#2	-.04883	51.410	-.00234	-.00968	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00394**	**97.101**	**-.00128**	**-.01051**	**.00175**
Stddev	.00098	.042	.00012	.00011	.02541
%RSD	24.863	.04346	9.3241	1.0448	1451.6
#1	.00325	97.131	-.00120	-.01059	-.01622
#2	.00464	97.071	-.00137	-.01043	.01972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00007**	**.00280**	**-.01398**	**.00022**
Stddev	.00037	.00013	.00037	.00177	.00028
%RSD	67.788	183.26	13.099	12.630	124.72
#1	-.00029	.00016	.00254	-.01523	.00042
#2	-.00081	-.00002	.00306	-.01273	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 7/27/2017 8:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00734**
Stddev	.00010
%RSD	1.3135
#1	.00741
#2	.00727
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3707.4**	**2415.9**	**17093.**	**3160.6**
Stddev	11.2	4.8	14.	17.4
%RSD	.30142	.20042	.08252	.55205
#1	3715.3	2419.3	17083.	3173.0
#2	3699.5	2412.4	17103.	3148.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.175%	100.48%	99.670%	101.71%
Range				

Sample Name: ICEX4 Acquired: 7/27/2017 8:28:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.06940**	**-.00224**	**-.00342**	**.00003**
Stddev	.00090	.01615	.00051	.00037	.00001
%RSD	122.59	23.271	22.710	10.863	48.336
#1	-.00010	-.05798	-.00188	-.00368	.00002
#2	-.00136	-.08082	-.00260	-.00316	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00706**	**.00049**	**.0243**	**19.506**
Stddev	.00009	.00127	.00008	.0076	.002
%RSD	4849.4	18.025	17.206	31.17	.00965
#1	.00006	.00616	.00055	.0297	19.507
#2	-.00007	.00796	.00043	.0189	19.504
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.418**	**.00686**	**.00040**	**.02829**	**-.00189**
Stddev	.040	.00031	.00002	.01958	.00053
%RSD	.38290	4.5081	4.9174	69.204	28.023
#1	10.390	.00664	.00038	.04214	-.00226
#2	10.446	.00708	.00041	.01445	-.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 7/27/2017 8:28:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**.00064**	**.00009**	**.00151**	**-.00418**
Stddev	.00060	.00000	.00020	.00758	.00004
%RSD	14.187	.46803	218.72	503.61	1.0146
#1	.00381	.00064	-.00005	.00687	-.00415
#2	.00466	.00064	.00024	-.00385	-.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00185**	**.01570**	**-.00182**	**-.00084**	**-.02574**
Stddev	.00018	.00257	.00046	.00146	.01585
%RSD	9.9044	16.380	25.545	173.71	61.599
#1	-.00198	.01752	-.00215	-.00187	-.01453
#2	-.00172	.01388	-.00149	.00019	-.03695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00017**	**.00039**	**.01031**	**-.00016**
Stddev	.00025	.00004	.00032	.00118	.00034
%RSD	80.608	24.663	82.060	11.413	216.30
#1	-.00048	.00014	.00016	.01115	.00008
#2	-.00013	.00020	.00062	.00948	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 7/27/2017 8:28:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00027**
Stddev	.00031
%RSD	112.79
#1	.00006
#2	.00049
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3755.7**	**2405.6**	**17238.**	**3191.6**
Stddev	4.8	.1	24.	9.8
%RSD	.12736	.00563	.13734	.30605
#1	3752.3	2405.6	17255.	3198.5
#2	3759.1	2405.7	17221.	3184.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.47%	100.06%	100.52%	102.71%
Range				

Sample Name: ICEX5 Acquired: 7/27/2017 8:32:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.07612**	**.00852**	**-.00635**	**-.00001**
Stddev	.00042	.00325	.00148	.00071	.00002
%RSD	264.28	4.2692	17.423	11.250	188.87
#1	-.00046	.07382	.00747	-.00585	.00000
#2	.00014	.07842	.00957	-.00686	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.02639**	**.00007**	**.0042**	**.00090**
Stddev	.00000	.00107	.00016	.0013	.00017
%RSD	2.6598	4.0719	232.57	31.36	18.732
#1	-.00010	.02563	.00018	.0033	.00102
#2	-.00010	.02715	-.00004	.0052	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.00247**	**.00012**	**.01869**	**-.00065**
Stddev	.00051	.00003	.00105	.00749	.00099
%RSD	134.71	1.0394	862.91	40.096	152.24
#1	.00002	-.00249	-.00062	.01339	.00005
#2	.00074	-.00245	.00087	.02399	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 7/27/2017 8:32:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03416**	**.00105**	**5.1632**	**.02076**	**.00030**
Stddev	.00324	.00005	.0009	.00316	.00000
%RSD	9.4713	4.4833	.01679	15.213	1.3271
#1	-.03645	.00101	5.1626	.02299	.00029
#2	-.03187	.00108	5.1638	.01852	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**-.00950**	**.00260**	**-.00332**	**-.01484**
Stddev	.00062	.00057	.00120	.00178	.01895
%RSD	142.17	6.0193	46.366	53.803	127.75
#1	.00000	-.00910	.00175	-.00458	-.02824
#2	-.00087	-.00991	.00345	-.00205	-.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00015**	**-.00320**	**.00146**	**.00065**
Stddev	.00037	.00003	.00016	.00022	.00027
%RSD	100.15	20.286	5.1153	14.883	41.669
#1	-.00062	.00017	-.00309	.00130	.00046
#2	-.00011	.00013	-.00332	.00161	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 7/27/2017 8:32:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00153
Stddev	.00000
%RSD	.01830
#1	.00153
#2	.00153
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3746.2	2419.3	17191.	3194.9
Stddev	.6	1.7	16.	25.2
%RSD	.01717	.06953	.09283	.78923
#1	3745.8	2418.2	17202.	3212.7
#2	3746.7	2420.5	17180.	3177.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.21%	100.63%	100.24%	102.82%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 8:35:35 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51159**	**25.086**	**.50228**	**.50122**	**.49407**
Stddev	.00120	.180	.00226	.00036	.00046
%RSD	.23505	.71734	.45001	.07210	.09230
#1	.51244	24.959	.50068	.50097	.49375
#2	.51074	25.213	.50388	.50148	.49439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50033**	**24.901**	**.50054**	**.0091**	**.49485**
Stddev	.00384	.144	.00014	.0085	.00072
%RSD	.76655	.57917	.02889	93.74	.14523
#1	.49761	24.799	.50064	.0031	.49434
#2	.50304	25.003	.50044	.0151	.49536
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51215**	**.49670**	**24.413**	**24.308**	**.49379**
Stddev	.00034	.00046	.103	.188	.00176
%RSD	.06636	.09349	.42058	.77161	.35621
#1	.51191	.49638	24.341	24.176	.49255
#2	.51239	.49703	24.486	24.441	.49503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 8:35:35 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.022**	**.51126**	**.51150**	**24.613**	**.49959**
Stddev	.006	.00056	.00027	.166	.00006
%RSD	.02446	.10990	.05239	.67537	.01117
#1	25.018	.51087	.51131	24.496	.49963
#2	25.027	.51166	.51169	24.731	.49955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50138**	**24.794**	**.49947**	**.50952**	**24.163**
Stddev	.00015	.009	.00043	.00200	.236
%RSD	.02949	.03617	.08572	.39207	.97581
#1	.50127	24.788	.49977	.50810	23.997
#2	.50148	24.800	.49916	.51093	24.330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50611**	**.48787**	**.49613**	**.49502**	**.51500**
Stddev	.00087	.00281	.00132	.00136	.00062
%RSD	.17217	.57565	.26571	.27443	.12017
#1	.50549	.48588	.49520	.49598	.51456
#2	.50673	.48986	.49707	.49406	.51544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 8:35:35 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51028**
Stddev	.00113
%RSD	.22095
#1	.50948
#2	.51107
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3411.2**	**2373.9**	**16713.**	**3190.9**
Stddev	8.4	5.4	7.	13.3
%RSD	.24663	.22812	.04479	.41626
#1	3417.2	2377.7	16718.	3200.3
#2	3405.3	2370.1	16708.	3181.5

Sample Name: CCB-4130963 Acquired: 7/27/2017 8:38:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.01513**	**.00047**	**-.00050**	**.00001**
Stddev	.00004	.01946	.00149	.00008	.00000
%RSD	6.0173	128.66	318.67	15.739	18.445
#1	-.00070	-.00136	.00152	-.00056	.00002
#2	-.00076	-.02889	-.00059	-.00045	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00238**	**.00007**	**.0070**	**.00005**
Stddev	.00008	.00012	.00008	.0059	.00003
%RSD	365.75	5.1183	117.18	85.03	47.311
#1	.00004	.00247	.00012	.0112	.00004
#2	-.00008	.00229	.00001	.0028	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.00109**	**-.00124**	**.02578**	**-.00072**
Stddev	.00009	.00055	.00049	.00635	.00108
%RSD	20.367	50.807	39.274	24.630	149.14
#1	.00037	-.00148	-.00090	.03027	-.00149
#2	.00050	-.00070	-.00159	.02129	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 8:38:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00553**	**.00011**	**.00031**	**.00306**	**.00015**
Stddev	.00025	.00001	.00012	.00903	.00009
%RSD	4.4668	7.0085	37.151	295.64	64.292
#1	-.00570	.00012	.00023	.00944	.00008
#2	-.00535	.00011	.00039	-.00333	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00550**	**.00132**	**-.00116**	**.01614**
Stddev	.00051	.00043	.00225	.00325	.00411
%RSD	56.871	7.8833	170.83	279.69	25.454
#1	.00054	.00520	.00291	-.00346	.01905
#2	.00126	.00581	-.00027	.00114	.01324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00008**	**.00086**	**.00260**	**-.00009**
Stddev	.00035	.00001	.00034	.00035	.00016
%RSD	350.98	14.574	39.454	13.593	167.17
#1	.00015	.00009	.00111	.00235	.00002
#2	-.00035	.00007	.00062	.00285	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 8:38:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	-.00001
Stddev	.00012
%RSD	1177.8
#1	.00007
#2	-.00009
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3747.7	2404.6	17088.	3156.1
Stddev	8.0	3.0	3.	6.1
%RSD	.21332	.12455	.01743	.19232
#1	3742.0	2402.5	17085.	3160.3
#2	3753.3	2406.8	17090.	3151.8

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:42:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00514**	**.19441**	**.01665**	**.01867**	**.00207**
Stddev	.00024	.01195	.00138	.00024	.00000
%RSD	4.6278	6.1462	8.2667	1.2968	.07135
#1	.00531	.20286	.01568	.01850	.00207
#2	.00497	.18596	.01762	.01885	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.50073**	**.00222**	**-.0009**	**.00404**
Stddev	.00008	.00748	.00005	.0071	.00021
%RSD	3.8062	1.4944	2.0879	751.6	5.1488
#1	.00212	.50602	.00219	-.0060	.00389
#2	.00201	.49544	.00225	.0041	.00418
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.00922**	**.04789**	**.50279**	**.02909**
Stddev	.00015	.00016	.00059	.01407	.00092
%RSD	3.3524	1.7665	1.2421	2.7993	3.1637
#1	.00437	.00934	.04747	.51274	.02974
#2	.00458	.00911	.04831	.49284	.02844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:42:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20417**	**.00321**	**.01018**	**.97956**	**.00981**
Stddev	.00495	.00007	.00027	.00289	.00007
%RSD	2.4250	2.2276	2.6674	.29459	.75759
#1	.20767	.00316	.00998	.97752	.00976
#2	.20067	.00326	.01037	.98160	.00986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01054**	**.19302**	**.02018**	**.02490**	**.49621**
Stddev	.00082	.00083	.00065	.00128	.01998
%RSD	7.7550	.42980	3.2040	5.1315	4.0267
#1	.00996	.19361	.02064	.02400	.51034
#2	.01112	.19244	.01973	.02580	.48208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00897**	**.00504**	**.00503**	**.02053**	**.00466**
Stddev	.00019	.00002	.00016	.00060	.00021
%RSD	2.1260	.31977	3.1054	2.9368	4.4832
#1	.00910	.00503	.00492	.02011	.00481
#2	.00883	.00505	.00514	.02096	.00451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:42:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01111
Stddev	.00036
%RSD	3.2593
#1	.01085
#2	.01136
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3754.5	2423.2	17186.	3184.4
Stddev	2.2	.3	111.	21.4
%RSD	.05825	.01198	.64637	.67283
#1	3753.0	2423.4	17265.	3169.2
#2	3756.1	2423.0	17107.	3199.5

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:57:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00516**	**.19017**	**.01681**	**.01843**	**.00203**
Stddev	.00065	.00450	.00147	.00011	.00002
%RSD	12.520	2.3670	8.7676	.61171	.78860
#1	.00561	.19335	.01577	.01835	.00205
#2	.00470	.18698	.01785	.01851	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.49723**	**.00214**	**.0207**	**.00407**
Stddev	.00000	.00404	.00006	.0006	.00000
%RSD	.14868	.81185	2.8018	2.747	.06311
#1	.00203	.49438	.00218	.0203	.00407
#2	.00203	.50009	.00210	.0211	.00408
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00443**	**.00972**	**.04818**	**.47478**	**.02883**
Stddev	.00026	.00094	.00052	.00465	.00073
%RSD	5.8802	9.6478	1.0822	.97972	2.5460
#1	.00461	.01038	.04855	.47807	.02935
#2	.00424	.00906	.04781	.47149	.02831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:57:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20176**	**.00310**	**.01028**	**.97629**	**.00977**
Stddev	.00008	.00001	.00015	.00034	.00007
%RSD	.03957	.21970	1.4604	.03470	.69012
#1	.20170	.00310	.01038	.97605	.00982
#2	.20181	.00311	.01017	.97652	.00972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01029**	**.19230**	**.01905**	**.02456**	**.50987**
Stddev	.00015	.00051	.00206	.00217	.00664
%RSD	1.4462	.26456	10.794	8.8212	1.3027
#1	.01039	.19194	.01760	.02609	.51456
#2	.01018	.19266	.02050	.02302	.50517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00950**	**.00491**	**.00547**	**.02192**	**.00513**
Stddev	.00012	.00010	.00083	.00029	.00054
%RSD	1.2857	1.9814	15.177	1.3037	10.477
#1	.00958	.00484	.00606	.02213	.00551
#2	.00941	.00498	.00489	.02172	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 8:57:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01092
Stddev	.00029
%RSD	2.6604
#1	.01112
#2	.01071
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3761.1	2425.2	17159.	3193.9
Stddev	13.8	8.8	42.	5.7
%RSD	.36592	.36273	.24689	.17747
#1	3751.4	2419.0	17129.	3197.9
#2	3770.9	2431.4	17188.	3189.9

Sample Name: mb 480-368365/1-b Acquired: 7/27/2017 9:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.01757**	**.00159**	**.00330**	**.00027**
Stddev	.00066	.01244	.00259	.00004	.00002
%RSD	153.24	70.796	163.01	1.2320	5.9860
#1	.00004	.00877	.00342	.00327	.00028
#2	-.00090	.02636	-.00024	.00333	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.06688**	**.00012**	**-.0120**	**.00012**
Stddev	.00000	.00249	.00007	.0190	.00008
%RSD	24.298	3.7240	54.493	158.1	65.298
#1	.00002	.06512	.00008	-.0255	.00017
#2	.00001	.06864	.00017	.0014	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00044**	**.00024**	**-.00248**	**-.00043**
Stddev	.00038	.00001	.00084	.02501	.00162
%RSD	261.67	2.4293	344.27	1007.2	378.26
#1	.00042	-.00045	.00084	.01520	-.00157
#2	-.00012	-.00043	-.00035	-.02017	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368365/1-b Acquired: 7/27/2017 9:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00144**	**.00078**	**-.00002**	**.00664**	**.00004**
Stddev	.00092	.00001	.00010	.00731	.00001
%RSD	63.528	1.7671	655.62	110.16	39.807
#1	.00079	.00077	-.00009	.00147	.00005
#2	.00209	.00079	.00006	.01181	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**.00575**	**.00016**	**-.00079**	**.00745**
Stddev	.00066	.00072	.00142	.00155	.00742
%RSD	74.766	12.539	882.87	195.41	99.595
#1	.00041	.00524	-.00084	-.00189	.00220
#2	.00134	.00626	.00117	.00030	.01270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00086**	**.00051**	**.00073**	**.00255**	**-.00015**
Stddev	.00019	.00003	.00005	.00065	.00006
%RSD	22.494	5.6298	7.3036	25.506	41.349
#1	-.00100	.00053	.00077	.00301	-.00010
#2	-.00073	.00049	.00069	.00209	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368365/1-b Acquired: 7/27/2017 9:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00253
Stddev	.00013
%RSD	5.0046
#1	.00244
#2	.00262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3815.5	2446.5	17372.	3243.6
Stddev	6.1	1.6	61.	6.9
%RSD	.15978	.06387	.35055	.21419
#1	3811.2	2447.6	17329.	3248.5
#2	3819.9	2445.4	17415.	3238.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.07%	101.76%	101.30%	104.38%
Range				

Sample Name: lcs 480-368365/2-b Acquired: 7/27/2017 9:04:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04858**	**10.334**	**.19808**	**.20425**	**.20097**
Stddev	.00089	.024	.00336	.00036	.00027
%RSD	1.8326	.22915	1.6988	.17483	.13507
#1	.04921	10.317	.20046	.20450	.20077
#2	.04795	10.351	.19570	.20400	.20116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19877**	**10.026**	**.20151**	**.0135**	**.18910**
Stddev	.00081	.005	.00030	.0037	.00009
%RSD	.40785	.05233	.14931	27.40	.04891
#1	.19820	10.030	.20173	.0109	.18904
#2	.19935	10.023	.20130	.0161	.18917
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20069**	**.19923**	**10.292**	**9.6516**	**.19615**
Stddev	.00060	.00012	.041	.0312	.00119
%RSD	.29900	.06208	.40078	.32335	.60485
#1	.20027	.19932	10.322	9.6737	.19699
#2	.20111	.19914	10.263	9.6295	.19531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368365/2-b Acquired: 7/27/2017 9:04:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.131**	**.20807**	**.20458**	**9.6985**	**.19362**
Stddev	.026	.00046	.00035	.0080	.00001
%RSD	.25273	.21896	.16922	.08225	.00357
#1	10.113	.20775	.20482	9.7041	.19362
#2	10.149	.20839	.20433	9.6929	.19361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20180**	**9.7070**	**.19994**	**.19755**	**10.050**
Stddev	.00006	.0039	.00031	.00038	.026
%RSD	.02827	.04017	.15495	.19471	.25752
#1	.20184	9.7043	.20016	.19728	10.032
#2	.20176	9.7098	.19972	.19782	10.068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19531**	**.19445**	**.19534**	**.19639**	**.20806**
Stddev	.00018	.00001	.00044	.00115	.00062
%RSD	.09005	.00754	.22286	.58730	.29854
#1	.19518	.19444	.19504	.19557	.20850
#2	.19543	.19446	.19565	.19720	.20762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368365/2-b Acquired: 7/27/2017 9:04:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21352
Stddev	.00066
%RSD	.30679
#1	.21305
#2	.21398
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3594.8	2411.1	17075.	3238.9
Stddev	2.0	3.4	100.	.8
%RSD	.05700	.14043	.58475	.02598
#1	3593.4	2408.7	17146.	3238.3
#2	3596.3	2413.5	17005.	3239.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.163%	100.29%	99.569%	104.23%
Range				

Sample Name: lcsd 480-368365/3-b Acquired: 7/27/2017 9:07:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04998**	**10.387**	**.20167**	**.20510**	**.20355**
Stddev	.00058	.018	.00060	.00069	.00049
%RSD	1.1524	.17223	.29853	.33593	.24200
#1	.04957	10.399	.20210	.20461	.20320
#2	.05038	10.374	.20124	.20559	.20390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20207**	**10.037**	**.20298**	**.0109**	**.19150**
Stddev	.00083	.010	.00019	.0262	.00020
%RSD	.41193	.09511	.09212	241.2	.10686
#1	.20266	10.043	.20285	-.0077	.19165
#2	.20149	10.030	.20311	.0294	.19136
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20384**	**.20087**	**10.297**	**9.7314**	**.19926**
Stddev	.00015	.00173	.037	.0352	.00239
%RSD	.07300	.86190	.36173	.36211	1.1978
#1	.20395	.19964	10.323	9.7563	.20095
#2	.20374	.20209	10.270	9.7064	.19758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368365/3-b Acquired: 7/27/2017 9:07:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.300**	**.21048**	**.20738**	**9.8185**	**.19572**
Stddev	.051	.00125	.00012	.0481	.00034
%RSD	.49503	.59543	.06001	.49006	.17587
#1	10.264	.20959	.20729	9.8525	.19597
#2	10.336	.21136	.20747	9.7845	.19548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20437**	**9.8157**	**.19990**	**.19728**	**10.076**
Stddev	.00015	.0043	.00223	.00222	.064
%RSD	.07108	.04351	1.1157	1.1273	.63886
#1	.20447	9.8127	.20148	.19571	10.122
#2	.20426	9.8187	.19832	.19885	10.031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19766**	**.19683**	**.19927**	**.19979**	**.21084**
Stddev	.00112	.00085	.00077	.00166	.00020
%RSD	.56675	.43171	.38643	.83312	.09618
#1	.19845	.19743	.19872	.20096	.21070
#2	.19686	.19623	.19981	.19861	.21099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368365/3-b Acquired: 7/27/2017 9:07:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21080**
Stddev	.00167
%RSD	.79445
#1	.20961
#2	.21198
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3593.8**	**2416.5**	**17064.**	**3259.9**
Stddev	6.0	1.2	117.	.7
%RSD	.16571	.05155	.68614	.02076
#1	3589.5	2417.3	17147.	3259.4
#2	3598.0	2415.6	16981.	3260.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.135%	100.51%	99.501%	104.91%
Range				

Sample Name: 480-120452-m-1-b Acquired: 7/27/2017 9:10:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.02907**	**.00280**	**.04995**	**.04373**
Stddev	.00000	.00556	.00085	.00024	.00002
%RSD	.45683	19.135	30.521	.48535	.04284
#1	-.00083	.02514	.00219	.04978	.04372
#2	-.00083	.03301	.00340	.05012	.04374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**44.342**	**.00024**	**.0070**	**-.00014**
Stddev	.00000	.131	.00008	.0092	.00006
%RSD	6.5937	.29585	34.495	131.9	41.515
#1	.00005	44.249	.00018	.0005	-.00010
#2	.00005	44.435	.00030	.0135	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00442**	**.00800**	**1.4429**	**.00713**
Stddev	.00010	.00030	.00100	.0026	.00066
%RSD	95.974	6.6771	12.520	.17809	9.1938
#1	-.00017	.00421	.00871	1.4411	.00759
#2	-.00003	.00463	.00729	1.4447	.00666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-b Acquired: 7/27/2017 9:10:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.155**	**.00091**	**.00187**	**23.783**	**.00233**
Stddev	.046	.00005	.00007	.103	.00005
%RSD	.32574	5.1946	3.8904	.43376	1.9772
#1	14.188	.00088	.00192	23.710	.00236
#2	14.123	.00095	.00182	23.856	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00306**	**10.266**	**.00039**	**.00322**	**10.091**
Stddev	.00100	.003	.00180	.00468	.022
%RSD	32.586	.02444	467.36	145.36	.22300
#1	.00376	10.268	.00166	.00653	10.075
#2	.00235	10.265	-.00089	-.00009	10.107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01381**	**.17804**	**.00113**	**.00210**	**.00330**
Stddev	.00023	.00092	.00001	.00071	.00009
%RSD	1.6654	.51703	.81905	33.696	2.8247
#1	.01397	.17739	.00112	.00160	.00324
#2	.01365	.17869	.00113	.00260	.00337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-b Acquired: 7/27/2017 9:10:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01681
Stddev	.00044
%RSD	2.6458
#1	.01649
#2	.01712
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3519.8	2377.2	16796.	3220.8
Stddev	7.6	1.5	69.	6.9
%RSD	.21555	.06239	.41173	.21537
#1	3525.2	2378.3	16747.	3225.7
#2	3514.4	2376.2	16845.	3215.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.157%	98.877%	97.941%	103.65%
Range				

Sample Name: 480-120452-m-1-bSD@5 Acquired: 7/27/2017 9:13:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.06140**	**.00252**	**.01855**	**.00928**
Stddev	.00025	.01765	.00045	.00008	.00000
%RSD	456.42	28.752	17.892	.41676	.01945
#1	-.00023	.07389	.00220	.01860	.00928
#2	.00012	.04892	.00283	.01849	.00929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**9.0690**	**.00007**	**.0318**	**.00010**
Stddev	.00005	.0059	.00006	.0039	.00021
%RSD	329.60	.06549	80.060	12.18	203.04
#1	-.00002	9.0732	.00011	.0346	.00025
#2	.00005	9.0648	.00003	.0291	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00085**	**.00240**	**.25087**	**.00094**
Stddev	.00084	.00076	.00123	.00037	.00011
%RSD	4917.4	89.741	51.408	.14640	11.797
#1	.00058	.00139	.00153	.25113	.00102
#2	-.00061	.00031	.00327	.25061	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-bSD@5 Acquired: 7/27/2017 9:13:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8329**	**.00029**	**.00026**	**4.7698**	**.00082**
Stddev	.0024	.00000	.00000	.0095	.00005
%RSD	.08417	.20156	1.3904	.19825	5.8523
#1	2.8313	.00029	.00027	4.7632	.00086
#2	2.8346	.00029	.00026	4.7765	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**2.0111**	**.00056**	**.00045**	**2.0039**
Stddev	.00031	.0015	.00039	.00265	.0061
%RSD	38.731	.07460	69.977	586.59	.30440
#1	.00058	2.0101	.00028	-.00142	2.0082
#2	.00102	2.0122	.00084	.00233	1.9996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**.03660**	**.00041**	**.00138**	**.00079**
Stddev	.00049	.00014	.00053	.00002	.00018
%RSD	19.155	.37931	127.69	1.5078	22.665
#1	.00220	.03670	.00004	.00140	.00091
#2	.00288	.03651	.00078	.00137	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-bSD@5 Acquired: 7/27/2017 9:13:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00392
Stddev	.00032
%RSD	8.2420
#1	.00369
#2	.00415
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3677.0	2401.6	17011.	3185.5
Stddev	2.1	2.8	64.	5.0
%RSD	.05643	.11850	.37428	.15785
#1	3678.5	2399.6	17056.	3189.1
#2	3675.5	2403.6	16966.	3182.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.362%	99.892%	99.194%	102.52%
Range				

Sample Name: 480-120452-m-1-b PDS Acquired: 7/27/2017 9:17:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04941**	**9.8934**	**.20404**	**.24830**	**.24345**
Stddev	.00091	.0337	.00298	.00002	.00106
%RSD	1.8456	.34108	1.4628	.00940	.43507
#1	.04876	9.9173	.20616	.24832	.24420
#2	.05005	9.8696	.20193	.24828	.24270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19997**	**53.081**	**.20275**	**.0232**	**.19190**
Stddev	.00058	.110	.00051	.0035	.00050
%RSD	.28993	.20748	.24973	15.18	.26152
#1	.20038	53.158	.20239	.0256	.19155
#2	.19956	53.003	.20311	.0207	.19226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20135**	**.20208**	**10.128**	**10.951**	**.20271**
Stddev	.00035	.00017	.022	.013	.00090
%RSD	.17630	.08444	.22036	.11466	.44198
#1	.20110	.20220	10.144	10.960	.20334
#2	.20160	.20196	10.112	10.942	.20208
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-b PDS Acquired: 7/27/2017 9:17:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.016**	**.20404**	**.20215**	**32.699**	**.19561**
Stddev	.061	.00082	.00054	.051	.00068
%RSD	.25437	.39997	.26626	.15680	.34760
#1	24.059	.20462	.20176	32.735	.19513
#2	23.973	.20347	.20253	32.662	.19609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20582**	**19.415**	**.20468**	**.20661**	**19.576**
Stddev	.00132	.008	.00175	.00052	.004
%RSD	.64312	.04160	.85325	.25394	.02285
#1	.20489	19.409	.20344	.20698	19.573
#2	.20676	19.420	.20591	.20624	19.579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21255**	**.36570**	**.19721**	**.19951**	**.21295**
Stddev	.00010	.00135	.00022	.00062	.00013
%RSD	.04704	.36923	.10982	.30982	.06308
#1	.21248	.36665	.19737	.19994	.21304
#2	.21262	.36474	.19706	.19907	.21285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-1-b PDS Acquired: 7/27/2017 9:17:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.22293
Stddev	.00042
%RSD	.18777
#1	.22263
#2	.22323
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3401.9	2356.9	16704.	3223.8
Stddev	3.9	1.3	27.	22.5
%RSD	.11354	.05338	.15983	.69791
#1	3399.1	2356.0	16685.	3207.9
#2	3404.6	2357.8	16723.	3239.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.002%	98.031%	97.402%	103.75%
Range				

Sample Name: 480-120452-m-2-b Acquired: 7/27/2017 9:20:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.03692**	**.00721**	**.12296**	**.32084**
Stddev	.00086	.00189	.00118	.00025	.00014
%RSD	69.331	5.1198	16.342	.20537	.04323
#1	-.00184	.03558	.00805	.12279	.32074
#2	-.00063	.03825	.00638	.12314	.32094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**171.32**	**.00062**	**-.0115**	**.00386**
Stddev	.00004	.18	.00002	.0098	.00012
%RSD	69.224	.10622	3.2447	85.40	3.2293
#1	.00008	171.45	.00061	-.0184	.00394
#2	.00003	171.20	.00063	-.0045	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00100**	**.00200**	**6.9799**	**.01974**
Stddev	.00027	.00131	.00027	.0163	.00002
%RSD	578.26	130.44	13.638	.23367	.12054
#1	.00014	-.00193	.00219	6.9914	.01972
#2	-.00024	-.00008	.00181	6.9684	.01975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-2-b Acquired: 7/27/2017 9:20:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.089**	**7.4645**	**.00682**	**43.411**	**.00541**
Stddev	.069	.0207	.00015	.008	.00015
%RSD	.15027	.27679	2.2241	.01916	2.8491
#1	46.138	7.4791	.00671	43.405	.00530
#2	46.040	7.4499	.00693	43.417	.00552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00381**	**49.320**	**-.00171**	**-.00477**	**15.598**
Stddev	.00049	.038	.00097	.00410	.071
%RSD	12.951	.07743	56.789	85.980	.45640
#1	.00415	49.293	-.00102	-.00767	15.648
#2	.00346	49.347	-.00239	-.00187	15.547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.71119**	**.00086**	**-.00002**	**.00001**
Stddev	.00036	.00095	.00006	.00219	.00034
%RSD	5568.5	.13364	6.4410	14065.	2808.1
#1	-.00025	.71052	.00090	-.00156	-.00023
#2	.00026	.71186	.00082	.00153	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-2-b Acquired: 7/27/2017 9:20:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02795
Stddev	.00059
%RSD	2.1235
#1	.02837
#2	.02753
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3250.3	2275.7	15973.	3151.9
Stddev	12.5	10.9	61.	5.2
%RSD	.38506	.48107	.38232	.16487
#1	3241.4	2268.0	15930.	3155.6
#2	3259.1	2283.5	16016.	3148.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.947%	94.656%	93.140%	101.43%
Range				

Sample Name: 480-120452-m-3-b Acquired: 7/27/2017 9:23:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.02678**	**.00221**	**.07759**	**.20826**
Stddev	.00018	.00356	.00158	.00049	.00110
%RSD	15.185	13.279	71.226	.62601	.52841
#1	-.00107	.02929	.00110	.07793	.20749
#2	-.00133	.02427	.00333	.07725	.20904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**71.679**	**.00145**	**-.0015**	**-.00015**
Stddev	.00008	.234	.00012	.0274	.00006
%RSD	488.16	.32676	8.3084	1870.	37.673
#1	.00004	71.845	.00154	-.0208	-.00019
#2	-.00007	71.514	.00137	.0179	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00319**	**.00119**	**.82675**	**.01678**
Stddev	.00013	.00024	.00113	.03430	.00011
%RSD	44.178	7.6615	94.884	4.1482	.65384
#1	.00019	.00336	.00199	.80250	.01670
#2	.00037	.00302	.00039	.85100	.01686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-3-b Acquired: 7/27/2017 9:23:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.271**	**.39604**	**.00032**	**34.915**	**.01269**
Stddev	.118	.00230	.00012	.054	.00009
%RSD	.58387	.58131	36.267	.15544	.71915
#1	20.187	.39441	.00024	34.954	.01275
#2	20.355	.39767	.00041	34.877	.01262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**18.315**	**.00107**	**-.00151**	**14.029**
Stddev	.00064	.016	.00249	.00263	.061
%RSD	16.430	.08630	233.56	174.29	.43240
#1	.00342	18.304	-.00069	-.00337	14.072
#2	.00432	18.326	.00283	.00035	13.986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.23373**	**.00076**	**.00341**	**.00111**
Stddev	.00006	.00133	.00013	.00027	.00043
%RSD	24.908	.56853	16.798	7.7819	38.583
#1	.00029	.23467	.00085	.00359	.00141
#2	.00021	.23279	.00067	.00322	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-3-b Acquired: 7/27/2017 9:23:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.05288
Stddev	.00011
%RSD	.20318
#1	.05280
#2	.05295
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3410.5	2329.5	16512.	3184.3
Stddev	4.1	.3	145.	6.2
%RSD	.12021	.01473	.87555	.19399
#1	3407.6	2329.3	16615.	3179.9
#2	3413.4	2329.8	16410.	3188.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.232%	96.893%	96.286%	102.48%
Range				

Sample Name: 480-120452-m-4-b Acquired: 7/27/2017 9:27:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.02774**	**.00773**	**.15228**	**.05026**
Stddev	.00092	.02117	.00143	.00019	.00013
%RSD	109.53	76.313	18.474	.12258	.26549
#1	-.00019	.04271	.00874	.15215	.05016
#2	-.00148	.01277	.00672	.15241	.05035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**241.78**	**.00042**	**.0222**	**.00152**
Stddev	.00006	.90	.00008	.0063	.00013
%RSD	854.65	.37149	19.655	28.48	8.5999
#1	.00005	242.42	.00036	.0177	.00161
#2	-.00004	241.15	.00048	.0266	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00115**	**.00540**	**6.8573**	**.02114**
Stddev	.00012	.00111	.00150	.0266	.00119
%RSD	330.69	96.772	27.730	.38834	5.6456
#1	.00005	.00036	.00434	6.8384	.02030
#2	-.00013	.00194	.00646	6.8761	.02199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-4-b Acquired: 7/27/2017 9:27:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.382**	**6.5748**	**.00529**	**67.760**	**.00202**
Stddev	.163	.0122	.00007	.032	.00004
%RSD	.25004	.18606	1.3281	.04695	2.1197
#1	65.266	6.5661	.00524	67.782	.00199
#2	65.497	6.5834	.00534	67.737	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00611**	F **101.55**	**-.00083**	**-.00605**	**17.028**
Stddev	.00082	.10	.00038	.00035	.074
%RSD	13.421	.09505	46.036	5.7729	.43386
#1	.00669	101.48	-.00056	-.00580	17.080
#2	.00553	101.61	-.00109	-.00630	16.975
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.74575**	**.00098**	**-.00025**	**-.00058**
Stddev	.00116	.00091	.00016	.00059	.00036
%RSD	216.75	.12224	15.878	234.80	61.782
#1	.00029	.74639	.00087	.00017	-.00083
#2	-.00136	.74510	.00109	-.00067	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-4-b Acquired: 7/27/2017 9:27:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00992
Stddev	.00065
%RSD	6.5076
#1	.00947
#2	.01038
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3149.3	2224.0	15883.	3133.6
Stddev	3.3	4.1	30.	21.2
%RSD	.10626	.18293	.18955	.67716
#1	3147.0	2221.2	15904.	3118.6
#2	3151.7	2226.9	15861.	3148.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.247%	92.506%	92.615%	100.84%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 9:30:26 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51451**	**25.084**	**.49898**	**.49886**	**.49058**
Stddev	.00344	.108	.00045	.00006	.00254
%RSD	.66780	.43182	.09015	.01278	.51844
#1	.51208	25.160	.49866	.49882	.49238
#2	.51694	25.007	.49930	.49891	.48878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49851**	**24.872**	**.49894**	**.0049**	**.49344**
Stddev	.00287	.078	.00025	.0171	.00066
%RSD	.57581	.31542	.04991	350.9	.13310
#1	.50053	24.928	.49911	-.0072	.49391
#2	.49648	24.817	.49876	.0170	.49298
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51240**	**.49310**	**24.303**	**24.167**	**.49038**
Stddev	.00280	.00148	.157	.183	.00331
%RSD	.54600	.29916	.64409	.75927	.67398
#1	.51042	.49206	24.414	24.297	.49271
#2	.51438	.49415	24.192	24.037	.48804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 9:30:26 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.970**	**.51128**	**.51031**	**24.447**	**.49832**
Stddev	.086	.00106	.00035	.127	.00032
%RSD	.34253	.20670	.06824	.51980	.06422
#1	25.030	.51203	.51056	24.537	.49809
#2	24.909	.51054	.51007	24.357	.49854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49927**	**24.702**	**.49472**	**.50618**	**24.176**
Stddev	.00237	.025	.00089	.00323	.088
%RSD	.47545	.10002	.18056	.63858	.36284
#1	.50095	24.719	.49409	.50389	24.238
#2	.49759	24.685	.49535	.50846	24.114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50355**	**.48356**	**.49440**	**.49163**	**.51918**
Stddev	.00008	.00327	.00317	.00125	.00054
%RSD	.01573	.67679	.64185	.25444	.10368
#1	.50349	.48587	.49664	.49075	.51880
#2	.50360	.48125	.49215	.49252	.51956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 9:30:26 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51880**
Stddev	.00044
%RSD	.08405
#1	.51911
#2	.51849
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3389.5**	**2358.9**	**16541.**	**3180.8**
Stddev	3.9	.7	61.	45.0
%RSD	.11570	.03053	.36846	1.4133
#1	3386.7	2358.4	16497.	3149.1
#2	3392.3	2359.4	16584.	3212.6

Sample Name: CCB-4130963 Acquired: 7/27/2017 9:33:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.00001**	**.00161**	**-.00086**	**.00002**
Stddev	.00037	.00794	.00323	.00019	.00003
%RSD	67.275	112780.	201.08	22.079	143.92
#1	-.00082	-.00562	.00389	-.00100	-.00000
#2	-.00029	.00561	-.00068	-.00073	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00481**	**.00004**	**.0316**	**.00007**
Stddev	.00001	.00027	.00010	.0212	.00010
%RSD	135.81	5.6932	293.74	67.01	145.80
#1	.00002	.00500	.00011	.0166	-.00000
#2	.00000	.00461	-.00004	.0466	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.00030**	**-.00128**	**.01554**	**.00036**
Stddev	.00041	.00072	.00087	.00849	.00003
%RSD	89.115	241.21	68.545	54.647	8.4397
#1	.00017	.00021	-.00189	.00954	.00038
#2	.00075	-.00080	-.00066	.02155	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 9:33:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00007**	**-.00025**	**.00346**	**.00053**
Stddev	.00134	.00008	.00008	.00748	.00008
%RSD	405.08	111.39	33.507	216.45	15.483
#1	.00128	.00001	-.00030	.00875	.00059
#2	-.00062	.00012	-.00019	-.00183	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00537**	**.00088**	**-.00227**	**.02489**
Stddev	.00014	.00141	.00270	.00132	.02187
%RSD	17.843	26.282	307.30	58.255	87.860
#1	.00089	.00637	.00279	-.00321	.04036
#2	.00069	.00437	-.00103	-.00134	.00943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00002**	**.00021**	**.00272**	**-.00057**
Stddev	.00055	.00009	.00044	.00004	.00067
%RSD	320.25	462.32	215.92	1.4610	118.90
#1	.00022	-.00005	-.00011	.00275	-.00009
#2	-.00056	.00009	.00052	.00269	-.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 9:33:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00011**
Stddev	.00055
%RSD	507.20
#1	.00028
#2	-.00050
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3746.5**	**2404.2**	**17105.**	**3196.3**
Stddev	3.2	3.2	.	10.7
%RSD	.08608	.13266	.00276	.33606
#1	3748.8	2406.4	17105.	3203.9
#2	3744.3	2401.9	17104.	3188.7

Sample Name: CCVL-4147888 Acquired: 7/27/2017 9:37:00 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00573**	**.19174**	**.01737**	**.01877**	**.00204**
Stddev	.00105	.01699	.00111	.00024	.00004
%RSD	18.305	8.8606	6.3845	1.3020	1.7365
#1	.00499	.20376	.01815	.01894	.00202
#2	.00647	.17973	.01659	.01859	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.50061**	**.00217**	**.0320**	**.00402**
Stddev	.00013	.00562	.00016	.0004	.00012
%RSD	6.3381	1.1230	7.3110	1.405	3.0897
#1	.00215	.49663	.00205	.0323	.00411
#2	.00196	.50458	.00228	.0317	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00380**	**.00943**	**.04688**	**.50375**	**.02939**
Stddev	.00024	.00012	.00258	.02326	.00097
%RSD	6.2659	1.2819	5.4975	4.6173	3.3007
#1	.00363	.00951	.04506	.48730	.02870
#2	.00397	.00934	.04871	.52020	.03007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 9:37:00 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20351**	**.00346**	**.01015**	**.97822**	**.00978**
Stddev	.00894	.00047	.00003	.00946	.00002
%RSD	4.3944	13.741	.29261	.96743	.16353
#1	.19718	.00312	.01017	.97153	.00976
#2	.20983	.00379	.01012	.98491	.00979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01073**	**.19842**	**.01868**	**.02327**	**.50138**
Stddev	.00009	.00331	.00174	.00401	.01417
%RSD	.80545	1.6669	9.3267	17.228	2.8272
#1	.01079	.20076	.01991	.02044	.51140
#2	.01067	.19608	.01745	.02611	.49135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00892**	**.00488**	**.00539**	**.02146**	**.00501**
Stddev	.00016	.00005	.00073	.00099	.00011
%RSD	1.7610	1.0668	13.553	4.6205	2.2426
#1	.00903	.00484	.00591	.02076	.00493
#2	.00881	.00491	.00487	.02216	.00509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 9:37:00 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01087
Stddev	.00010
%RSD	.90920
#1	.01094
#2	.01080
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3771.0	2432.8	17125.	3187.0
Stddev	8.5	2.1	47.	5.3
%RSD	.22530	.08469	.27400	.16525
#1	3765.0	2431.3	17092.	3190.7
#2	3777.0	2434.2	17158.	3183.2

Sample Name: 480-120452-m-5-b Acquired: 7/27/2017 9:40:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**.02483**	**.00418**	**.17113**	**.36363**
Stddev	.00043	.02341	.00085	.00045	.00134
%RSD	34.167	94.303	20.454	.26136	.36935
#1	-.00095	.00827	.00478	.17082	.36269
#2	-.00155	.04139	.00357	.17145	.36458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**158.10**	**.00096**	**.0156**	**.00364**
Stddev	.00001	.79	.00003	.0121	.00012
%RSD	63.046	.49907	2.6653	77.50	3.2284
#1	.00003	157.54	.00098	.0242	.00372
#2	.00001	158.66	.00094	.0071	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00064**	**.00357**	**3.7756**	**.00966**
Stddev	.00033	.00093	.00188	.0722	.00067
%RSD	96.840	145.26	52.568	1.9135	6.9435
#1	.00057	.00002	.00490	3.7246	.01013
#2	.00011	-.00129	.00224	3.8267	.00918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-5-b Acquired: 7/27/2017 9:40:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.422**	**5.4808**	**.00860**	**40.663**	**.01967**
Stddev	.249	.0187	.00005	.182	.00047
%RSD	.47464	.34071	.58685	.44801	2.4068
#1	52.246	5.4676	.00863	40.534	.02001
#2	52.598	5.4940	.00856	40.792	.01934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00446**	**24.064**	**.00126**	**.00026**	**15.441**
Stddev	.00236	.026	.00214	.00106	.059
%RSD	52.824	.10647	170.38	401.04	.37955
#1	.00280	24.046	-.00026	.00101	15.399
#2	.00613	24.082	.00277	-.00048	15.482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.57207**	**.00113**	**.00016**	**.00028**
Stddev	.00086	.00448	.00047	.00013	.00012
%RSD	991.84	.78357	41.522	81.680	43.255
#1	-.00069	.56890	.00146	.00007	.00020
#2	.00052	.57524	.00080	.00025	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-5-b Acquired: 7/27/2017 9:40:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02458**
Stddev	.00033
%RSD	1.3510
#1	.02482
#2	.02435
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3271.8**	**2298.5**	**16266.**	**3189.3**
Stddev	1.9	2.5	100.	15.3
%RSD	.05806	.10922	.61681	.48080
#1	3270.4	2296.7	16337.	3200.1
#2	3273.1	2300.3	16195.	3178.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.521%	95.602%	94.850%	102.64%
Range				

Sample Name: 480-120452-m-7-b Acquired: 7/27/2017 9:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00155**	**.03195**	**.00289**	**.11267**	**.06347**
Stddev	.00011	.01609	.00180	.00035	.00010
%RSD	6.9693	50.376	62.381	.30700	.15735
#1	-.00163	.04333	.00416	.11291	.06354
#2	-.00147	.02057	.00161	.11243	.06340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**290.77**	**.00116**	**.0195**	**.00692**
Stddev	.00004	.64	.00015	.0458	.00003
%RSD	68.072	.21850	13.091	234.8	.47843
#1	-.00003	290.33	.00105	-.0129	.00694
#2	-.00009	291.22	.00127	.0519	.00690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.06294**	**.00143**	**7.8185**	**.02005**
Stddev	.00050	.00046	.00320	.0069	.00116
%RSD	3901.4	.72291	224.26	.08861	5.8029
#1	.00034	.06262	-.00084	7.8136	.02088
#2	-.00037	.06326	.00369	7.8234	.01923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-7-b Acquired: 7/27/2017 9:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**104.08**	**5.9184**	**.00427**	**135.27**	**.00925**
Stddev	.18	.0034	.00013	.05	.00030
%RSD	.17427	.05744	2.9676	.03671	3.2952
#1	103.95	5.9160	.00436	135.31	.00946
#2	104.21	5.9208	.00418	135.24	.00903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	F **168.33**	**-.00079**	**-.00633**	**15.818**
Stddev	.00125	.28	.00144	.00204	.061
%RSD	25.065	.16589	181.88	32.241	.38515
#1	.00588	168.14	-.00181	-.00489	15.775
#2	.00411	168.53	.00023	-.00777	15.861
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.53814**	**.00118**	**.00046**	**.00029**
Stddev	.00034	.00091	.00021	.00048	.00063
%RSD	38.018	.16946	17.736	102.23	217.07
#1	-.00114	.53750	.00103	.00013	.00073
#2	-.00066	.53879	.00133	.00080	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-7-b Acquired: 7/27/2017 9:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.13823
Stddev	.00027
%RSD	.19628
#1	.13842
#2	.13804
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3043.5	2187.2	15595.	3133.4
Stddev	3.0	5.4	10.	7.6
%RSD	.09728	.24735	.06187	.24208
#1	3045.6	2191.0	15602.	3138.7
#2	3041.4	2183.4	15589.	3128.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.416%	90.973%	90.939%	100.84%
Range				

Sample Name: 480-120452-m-10-b Acquired: 7/27/2017 9:47:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00210**	**.01976**	**.02301**	**.15695**	**.33174**
Stddev	.00020	.03095	.00337	.00020	.00066
%RSD	9.6260	156.69	14.661	.12945	.19874
#1	-.00196	.04164	.02063	.15681	.33128
#2	-.00225	-.00213	.02540	.15710	.33221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**184.39**	**.00060**	**.0312**	**.00287**
Stddev	.00002	.24	.00005	.0136	.00010
%RSD	61.132	.12813	9.0768	43.54	3.3169
#1	-.00005	184.56	.00057	.0216	.00280
#2	-.00002	184.23	.00064	.0408	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00096**	**.00498**	**7.9910**	**.03470**
Stddev	.00018	.00115	.00176	.0163	.00038
%RSD	27.162	119.38	35.273	.20422	1.0894
#1	.00053	-.00015	.00623	8.0025	.03497
#2	.00078	-.00177	.00374	7.9795	.03443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-10-b Acquired: 7/27/2017 9:47:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.812**	**5.3173**	**.00572**	**63.183**	**.00322**
Stddev	.096	.0122	.00018	.269	.00028
%RSD	.18800	.22873	3.0868	.42566	8.5969
#1	50.745	5.3087	.00559	62.993	.00302
#2	50.880	5.3259	.00584	63.373	.00341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00471**	**35.973**	**.00000**	**-.00109**	**18.569**
Stddev	.00150	.010	.00030	.00092	.020
%RSD	31.957	.02698	8254.8	84.862	.10578
#1	.00577	35.966	-.00021	-.00174	18.582
#2	.00364	35.980	.00022	-.00043	18.555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.89826**	**.00076**	**-.00021**	**-.00051**
Stddev	.00034	.00127	.00024	.00065	.00023
%RSD	115.30	.14131	31.541	303.74	44.580
#1	-.00005	.89736	.00059	.00025	-.00035
#2	-.00054	.89915	.00093	-.00067	-.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-10-b Acquired: 7/27/2017 9:47:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02368
Stddev	.00061
%RSD	2.5593
#1	.02325
#2	.02411
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3209.0	2265.9	16051.	3176.1
Stddev	6.7	1.1	22.	21.7
%RSD	.20943	.04694	.13647	.68269
#1	3213.8	2266.7	16066.	3160.8
#2	3204.3	2265.2	16035.	3191.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.843%	94.248%	93.596%	102.21%
Range				

Sample Name: 480-120452-m-11-b Acquired: 7/27/2017 9:50:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.02414**	**.00341**	**.07838**	**.07588**
Stddev	.00047	.02503	.00027	.00005	.00013
%RSD	194.61	103.66	7.8853	.06940	.16791
#1	-.00009	.04184	.00322	.07842	.07579
#2	.00057	.00645	.00360	.07834	.07597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**95.976**	**.00057**	**.0176**	**.00099**
Stddev	.00013	.283	.00006	.0194	.00003
%RSD	517.80	.29448	10.962	110.2	3.5154
#1	.00011	95.776	.00052	.0312	.00096
#2	-.00006	96.176	.00061	.0039	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00104**	**.00245**	**3.3660**	**.01708**
Stddev	.00032	.00053	.00156	.0785	.00030
%RSD	145.80	50.611	63.752	2.3305	1.7481
#1	-.00001	-.00067	.00135	3.3105	.01687
#2	.00044	-.00142	.00355	3.4215	.01729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-11-b Acquired: 7/27/2017 9:50:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.323**	**2.7424**	**.00398**	**84.500**	**.00351**
Stddev	.009	.0020	.00035	.048	.00010
%RSD	.02635	.07326	8.7504	.05630	2.8655
#1	34.317	2.7410	.00374	84.467	.00358
#2	34.330	2.7438	.00423	84.534	.00343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**75.580**	**.00217**	**-.00177**	**15.884**
Stddev	.00017	.157	.00198	.00030	.008
%RSD	3.9653	.20773	91.477	16.885	.04829
#1	.00430	75.691	.00076	-.00198	15.889
#2	.00407	75.469	.00357	-.00156	15.878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.20488**	**.00091**	**.00133**	**.00148**
Stddev	.00074	.00023	.00018	.00054	.00018
%RSD	166.02	.11122	19.417	40.421	12.256
#1	.00008	.20472	.00104	.00095	.00136
#2	-.00097	.20504	.00079	.00171	.00161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-11-b Acquired: 7/27/2017 9:50:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01301
Stddev	.00065
%RSD	4.9828
#1	.01255
#2	.01347
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3299.1	2289.2	16341.	3196.6
Stddev	15.9	8.2	24.	2.0
%RSD	.48100	.35856	.14678	.06179
#1	3310.3	2295.0	16358.	3198.0
#2	3287.8	2283.4	16324.	3195.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.252%	95.215%	95.286%	102.87%
Range				

Sample Name: 480-120452-m-12-b Acquired: 7/27/2017 9:53:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.01032**	**.00372**	**.07037**	**.14983**
Stddev	.00020	.01612	.00015	.00020	.00073
%RSD	36.915	156.17	3.9195	.28359	.48739
#1	-.00069	.00108	.00382	.07052	.14932
#2	-.00040	-.02172	.00361	.07023	.15035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**120.43**	**.00146**	**.0251**	**.00004**
Stddev	.00006	.10	.00013	.0333	.00002
%RSD	84.238	.08593	9.0295	132.6	33.970
#1	-.00003	120.36	.00137	.0486	.00006
#2	-.00011	120.50	.00156	.0016	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00126**	**-.00225**	**1.0565**	**.01954**
Stddev	.00007	.00121	.00201	.0395	.00101
%RSD	155.79	96.561	89.204	3.7391	5.1785
#1	.00009	-.00040	-.00083	1.0844	.02026
#2	-.00000	-.00212	-.00367	1.0286	.01883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-12-b Acquired: 7/27/2017 9:53:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.452**	**.99219**	**.00054**	**37.133**	**.00686**
Stddev	.202	.00510	.00000	.069	.00024
%RSD	.53936	.51425	.64706	.18712	3.4560
#1	37.310	.98858	.00054	37.084	.00669
#2	37.595	.99580	.00054	37.182	.00702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00396**	**43.341**	**-.00023**	**-.00089**	**14.475**
Stddev	.00024	.011	.00040	.00060	.041
%RSD	5.9562	.02631	177.34	68.075	.28578
#1	.00379	43.333	-.00051	-.00046	14.446
#2	.00413	43.349	.00006	-.00132	14.505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.31953**	**.00083**	**.00241**	**-.00034**
Stddev	.00023	.00082	.00073	.00110	.00024
%RSD	59.420	.25579	88.388	45.720	70.541
#1	.00023	.31895	.00031	.00163	-.00052
#2	.00056	.32010	.00134	.00318	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-120452-m-12-b Acquired: 7/27/2017 9:53:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02203
Stddev	.00023
%RSD	1.0520
#1	.02219
#2	.02187
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3500.4	2425.4	17109.	3259.7
Stddev	15.5	9.8	44.	4.1
%RSD	.44223	.40522	.25718	.12482
#1	3511.3	2432.4	17141.	3256.8
#2	3489.4	2418.5	17078.	3262.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.637%	100.88%	99.768%	104.90%
Range				

Sample Name: mb 480-368836/1-a Acquired: 7/27/2017 9:57:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.02944**	**.00245**	**.00227**	**.00007**
Stddev	.00003	.03367	.00014	.00014	.00002
%RSD	8.8482	114.38	5.6302	6.1334	23.995
#1	-.00032	.05324	.00255	.00237	.00006
#2	-.00028	.00563	.00236	.00218	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.03376**	**.00005**	**.0110**	**-.00002**
Stddev	.00002	.00110	.00003	.0125	.00003
%RSD	104.21	3.2451	60.964	114.3	134.34
#1	-.00000	.03298	.00007	.0021	-.00004
#2	-.00003	.03453	.00003	.0198	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**-.00037**	**-.00201**	**-.02605**	**-.00347**
Stddev	.00045	.00060	.00011	.00218	.00039
%RSD	55.573	161.30	5.3990	8.3847	11.259
#1	.00114	.00005	-.00208	-.02450	-.00374
#2	.00050	-.00080	-.00193	-.02759	-.00319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368836/1-a Acquired: 7/27/2017 9:57:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00105**	**-.00014**	**.00282**	**.00017**
Stddev	.00366	.00004	.00007	.00646	.00038
%RSD	7243.7	3.6833	48.988	228.60	228.66
#1	.00264	.00107	-.00019	-.00174	.00044
#2	-.00254	.00102	-.00009	.00739	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.01100**	**.00052**	**.00205**	**.00917**
Stddev	.00062	.00163	.00106	.00112	.00143
%RSD	68.909	14.793	206.38	54.837	15.644
#1	.00133	.01215	-.00024	.00126	.00816
#2	.00046	.00985	.00127	.00284	.01019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.00024**	**.00080**	**.00284**	**-.00029**
Stddev	.00017	.00007	.00036	.00021	.00046
%RSD	35.714	31.105	44.812	7.3395	162.08
#1	-.00060	.00019	.00105	.00269	-.00061
#2	-.00036	.00029	.00054	.00298	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368836/1-a Acquired: 7/27/2017 9:57:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00017
Stddev	.00004
%RSD	24.337
#1	.00014
#2	.00020
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3803.2	2433.8	17328.	3253.0
Stddev	7.4	1.1	1.	2.9
%RSD	.19343	.04344	.00505	.08764
#1	3808.4	2434.6	17329.	3255.0
#2	3798.0	2433.1	17327.	3251.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.74%	101.23%	101.04%	104.69%
Range				

Sample Name: lcs 480-368836/2-a Acquired: 7/27/2017 10:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04928**	**10.425**	**.20287**	**.20353**	**.20040**
Stddev	.00061	.016	.00005	.00016	.00034
%RSD	1.2470	.14886	.02395	.08080	.16947
#1	.04971	10.436	.20291	.20341	.20064
#2	.04884	10.414	.20284	.20364	.20016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20126**	**10.037**	**.20325**	**.0261**	**.19108**
Stddev	.00089	.041	.00031	.0045	.00042
%RSD	.44199	.40702	.15443	17.06	.22027
#1	.20189	10.066	.20302	.0292	.19138
#2	.20063	10.008	.20347	.0229	.19078
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20055**	**.19964**	**10.300**	**9.6206**	**.19733**
Stddev	.00088	.00066	.035	.0443	.00203
%RSD	.44117	.32959	.34088	.46045	1.0272
#1	.20118	.19917	10.325	9.6519	.19590
#2	.19993	.20010	10.275	9.5893	.19877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368836/2-a Acquired: 7/27/2017 10:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.272**	**.20954**	**.20666**	**9.7565**	**.19585**
Stddev	.009	.00063	.00003	.0482	.00023
%RSD	.08998	.30075	.01482	.49400	.11972
#1	10.279	.20998	.20668	9.7906	.19569
#2	10.266	.20909	.20664	9.7225	.19602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20492**	**9.7981**	**.20084**	**.20310**	**10.144**
Stddev	.00003	.0338	.00076	.00116	.010
%RSD	.01320	.34493	.37771	.57260	.10143
#1	.20494	9.7742	.20138	.20228	10.151
#2	.20490	9.8220	.20030	.20393	10.136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19784**	**.19537**	**.19579**	**.19848**	**.21050**
Stddev	.00020	.00059	.00076	.00011	.00123
%RSD	.10106	.30178	.38789	.05659	.58621
#1	.19770	.19578	.19632	.19840	.21137
#2	.19798	.19495	.19525	.19856	.20962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368836/2-a Acquired: 7/27/2017 10:00:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20871
Stddev	.00146
%RSD	.70051
#1	.20974
#2	.20768
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3601.2	2417.4	17172.	3254.3
Stddev	8.3	2.2	10.	25.7
%RSD	.23057	.09006	.05770	.78847
#1	3595.3	2415.8	17165.	3236.2
#2	3607.1	2418.9	17179.	3272.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.334%	100.55%	100.13%	104.73%
Range				

Sample Name: lcsd 480-368836/3-a Acquired: 7/27/2017 10:03:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04893**	**10.291**	**.20077**	**.20289**	**.19875**
Stddev	.00056	.045	.00138	.00007	.00077
%RSD	1.1355	.43690	.68612	.03370	.38705
#1	.04854	10.323	.19980	.20294	.19930
#2	.04933	10.259	.20175	.20284	.19821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19845**	**9.9270**	**.20060**	**.0270**	**.18896**
Stddev	.00070	.0153	.00001	.0046	.00009
%RSD	.35491	.15440	.00714	16.98	.04643
#1	.19894	9.9379	.20061	.0238	.18890
#2	.19795	9.9162	.20059	.0303	.18902
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19960**	**.19547**	**10.202**	**9.4892**	**.19556**
Stddev	.00070	.00039	.027	.0565	.00187
%RSD	.34944	.19907	.26020	.59574	.95503
#1	.19910	.19519	10.220	9.5292	.19424
#2	.20009	.19574	10.183	9.4493	.19689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368836/3-a Acquired: 7/27/2017 10:03:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.137**	**.20739**	**.20501**	**9.6473**	**.19301**
Stddev	.011	.00017	.00008	.0083	.00050
%RSD	.10867	.08159	.04095	.08589	.25950
#1	10.129	.20751	.20507	9.6532	.19265
#2	10.145	.20728	.20495	9.6415	.19336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20350**	**9.7012**	**.19667**	**.20186**	**10.090**
Stddev	.00124	.0024	.00176	.00315	.025
%RSD	.60740	.02420	.89688	1.5605	.25223
#1	.20262	9.6996	.19791	.20409	10.072
#2	.20437	9.7029	.19542	.19963	10.108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19570**	**.19319**	**.19265**	**.19617**	**.20918**
Stddev	.00023	.00113	.00028	.00172	.00153
%RSD	.11807	.58263	.14327	.87590	.73273
#1	.19586	.19398	.19285	.19738	.20810
#2	.19553	.19239	.19246	.19495	.21026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368836/3-a Acquired: 7/27/2017 10:03:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20778**
Stddev	.00044
%RSD	.21393
#1	.20810
#2	.20747
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3608.6**	**2421.7**	**17138.**	**3240.1**
Stddev	10.6	8.0	31.	14.7
%RSD	.29307	.32958	.18280	.45240
#1	3616.1	2427.4	17160.	3229.8
#2	3601.2	2416.1	17116.	3250.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.533%	100.73%	99.934%	104.27%
Range				

Sample Name: 480-121597-a-1-a Acquired: 7/27/2017 10:07:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.04079**	**.00277**	**.55304**	**.02373**
Stddev	.00043	.02948	.00029	.00044	.00004
%RSD	62.509	72.260	10.317	.07898	.16382
#1	-.00098	.01995	.00257	.55273	.02376
#2	-.00038	.06164	.00297	.55334	.02371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**71.288**	**.00030**	**.0158**	**.00264**
Stddev	.00005	.422	.00008	.0264	.00004
%RSD	677.76	.59263	27.653	167.2	1.5419
#1	-.00003	71.586	.00024	.0344	.00261
#2	.00004	70.989	.00036	-.0029	.00267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**.00486**	**.04506**	**4.0111**	**.04434**
Stddev	.00018	.00005	.00252	.0507	.00009
%RSD	9.3548	1.0033	5.5912	1.2637	.20410
#1	.00209	.00482	.04684	4.0469	.04441
#2	.00183	.00489	.04328	3.9753	.04428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-a Acquired: 7/27/2017 10:07:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.909**	**.02160**	**.00116**	**198.84**	**.01896**
Stddev	.218	.00002	.00006	1.59	.00000
%RSD	.48607	.08396	5.5514	.79911	.01875
#1	45.063	.02161	.00121	199.96	.01896
#2	44.754	.02159	.00111	197.71	.01896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00422**	**54.408**	**.00018**	**.00050**	**11.459**
Stddev	.00024	.017	.00116	.00125	.015
%RSD	5.6816	.03122	629.56	248.67	.13235
#1	.00439	54.420	.00101	-.00038	11.470
#2	.00405	54.396	-.00064	.00139	11.448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00257**	**2.1393**	**.00121**	**.00145**	**-.00018**
Stddev	.00016	.0131	.00078	.00083	.00041
%RSD	6.3783	.61392	64.666	57.491	230.40
#1	.00245	2.1486	.00176	.00203	.00011
#2	.00268	2.1300	.00066	.00086	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-a Acquired: 7/27/2017 10:07:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00277
Stddev	.00012
%RSD	4.3928
#1	.00285
#2	.00268
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3197.3	2275.6	16134.	3169.3
Stddev	1.4	1.9	70.	16.3
%RSD	.04334	.08406	.43327	.51388
#1	3198.3	2277.0	16084.	3157.8
#2	3196.4	2274.3	16183.	3180.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.531%	94.650%	94.079%	101.99%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51530**	**25.000**	**.50138**	**.50010**	**.49011**
Stddev	.00494	.223	.00112	.00108	.00070
%RSD	.95829	.89180	.22307	.21496	.14257
#1	.51181	24.842	.50059	.49934	.48962
#2	.51880	25.157	.50217	.50086	.49061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50024**	**24.787**	**.49881**	**.0078**	**.49294**
Stddev	.00423	.206	.00007	.0107	.00027
%RSD	.84587	.83119	.01406	137.1	.05395
#1	.49725	24.642	.49876	.0002	.49275
#2	.50323	24.933	.49886	.0154	.49313
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51440**	**.49225**	**24.226**	**24.170**	**.49198**
Stddev	.00278	.00137	.241	.184	.00168
%RSD	.54072	.27737	.99583	.75993	.34108
#1	.51243	.49129	24.055	24.040	.49079
#2	.51637	.49322	24.396	24.300	.49317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.936**	**.51142**	**.51068**	**24.590**	**.49811**
Stddev	.069	.00313	.00038	.164	.00025
%RSD	.27805	.61176	.07356	.66501	.05048
#1	24.887	.50920	.51042	24.474	.49793
#2	24.985	.51363	.51095	24.706	.49829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49836**	**24.735**	**.49838**	**.50871**	**24.138**
Stddev	.00172	.026	.00161	.00283	.153
%RSD	.34551	.10429	.32388	.55721	.63329
#1	.49714	24.717	.49952	.50671	24.030
#2	.49958	24.753	.49724	.51072	24.246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50349**	**.48592**	**.49358**	**.49113**	**.52093**
Stddev	.00081	.00394	.00120	.00101	.00315
%RSD	.16058	.81144	.24372	.20585	.60405
#1	.50406	.48313	.49273	.49185	.51871
#2	.50291	.48870	.49443	.49042	.52316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51790
Stddev	.00218
%RSD	.42087
#1	.51635
#2	.51944
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3414.6	2376.2	16565.	3193.3
Stddev	5.0	3.5	26.	27.3
%RSD	.14704	.14547	.15446	.85482
#1	3411.0	2373.8	16583.	3212.6
#2	3418.1	2378.7	16547.	3174.0

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:13:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**-.00002**	**.00051**	**-.00040**	**-.00002**
Stddev	.00021	.00597	.00058	.00049	.00000
%RSD	35.965	31175.	114.45	123.67	16.185
#1	-.00073	.00420	.00092	-.00005	-.00003
#2	-.00044	-.00424	.00010	-.00074	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00303**	**.00024**	**.0121**	**-.00002**
Stddev	.00004	.00111	.00001	.0154	.00011
%RSD	310.34	36.595	4.8817	126.7	617.01
#1	-.00002	.00381	.00025	.0230	.00006
#2	.00005	.00224	.00024	.0013	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**-.00038**	**-.00059**	**-.03626**	**-.00125**
Stddev	.00054	.00015	.00122	.02130	.00114
%RSD	96.812	40.969	206.62	58.749	90.759
#1	.00018	-.00049	.00027	-.02120	-.00045
#2	.00094	-.00027	-.00145	-.05133	-.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:13:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00512**	**.00007**	**-.00003**	**.01467**	**.00028**
Stddev	.00099	.00003	.00008	.00886	.00017
%RSD	19.303	35.682	269.92	60.435	59.419
#1	-.00442	.00009	-.00008	.02093	.00040
#2	-.00582	.00006	.00003	.00840	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00677**	**.00122**	**-.00435**	**.01409**
Stddev	.00128	.00049	.00201	.00068	.01970
%RSD	4755.5	7.1992	164.84	15.703	139.86
#1	-.00088	.00711	.00264	-.00386	.00016
#2	.00093	.00642	-.00020	-.00483	.02802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00005**	**.00026**	**.00162**	**-.00001**
Stddev	.00052	.00008	.00082	.00024	.00056
%RSD	553.75	140.56	319.03	14.546	6138.9
#1	-.00046	.00000	.00084	.00145	.00039
#2	.00027	.00011	-.00032	.00179	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:13:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00005**
Stddev	.00030
%RSD	574.60
#1	.00026
#2	-.00016
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3740.9**	**2405.2**	**17080.**	**3193.2**
Stddev	5.7	1.7	84.	7.3
%RSD	.15183	.06884	.49031	.22929
#1	3744.9	2406.4	17140.	3188.0
#2	3736.9	2404.0	17021.	3198.4

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00518**	**.21015**	**.01682**	**.01893**	**.00204**
Stddev	.00031	.00763	.00271	.00038	.00002
%RSD	6.0349	3.6286	16.111	2.0213	.98241
#1	.00496	.20476	.01491	.01866	.00206
#2	.00540	.21554	.01874	.01920	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.50446**	**.00210**	**.0247**	**.00400**
Stddev	.00002	.00554	.00001	.0238	.00008
%RSD	1.1209	1.0983	.60942	96.51	2.0730
#1	.00201	.50054	.00211	.0078	.00406
#2	.00204	.50838	.00209	.0415	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	**.00906**	**.04676**	**.45347**	**.02720**
Stddev	.00005	.00101	.00086	.05348	.00124
%RSD	1.3057	11.098	1.8421	11.794	4.5649
#1	.00415	.00977	.04615	.41565	.02807
#2	.00407	.00835	.04737	.49129	.02632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20570**	**.00309**	**.01004**	**.98154**	**.00954**
Stddev	.00364	.00005	.00019	.00827	.00011
%RSD	1.7676	1.6047	1.8753	.84279	1.1159
#1	.20827	.00313	.01017	.98739	.00946
#2	.20313	.00306	.00990	.97569	.00961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01056**	**.19866**	**.01919**	**.02283**	**.51221**
Stddev	.00020	.00330	.00094	.00113	.00317
%RSD	1.8890	1.6636	4.8995	4.9469	.61863
#1	.01041	.19632	.01985	.02363	.51445
#2	.01070	.20100	.01852	.02203	.50997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00887**	**.00491**	**.00542**	**.02151**	**.00471**
Stddev	.00093	.00000	.00079	.00074	.00036
%RSD	10.523	.09635	14.557	3.4268	7.6517
#1	.00821	.00491	.00598	.02099	.00445
#2	.00953	.00491	.00486	.02203	.00496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01191
Stddev	.00020
%RSD	1.6409
#1	.01205
#2	.01177
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3765.2	2428.7	17276.	3186.6
Stddev	13.1	9.7	27.	9.8
%RSD	.34718	.39785	.15688	.30648
#1	3756.0	2421.9	17295.	3193.5
#2	3774.5	2435.6	17257.	3179.7

Sample Name: 480-121597-a-1-aSD@5 Acquired: 7/27/2017 10:20:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.03693**	**.00044**	**.11166**	**.00498**
Stddev	.00100	.03194	.00001	.00013	.00001
%RSD	199.21	86.469	1.6110	.11947	.29197
#1	.00021	.05952	.00044	.11176	.00497
#2	-.00121	.01435	.00043	.11157	.00499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**14.034**	**.00022**	**.0360**	**.00062**
Stddev	.00001	.107	.00013	.0371	.00012
%RSD	1064.4	.76502	56.710	102.9	20.251
#1	.00001	14.110	.00031	.0098	.00071
#2	-.00001	13.958	.00013	.0622	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00081**	**.00764**	**.76171**	**.00930**
Stddev	.00064	.00016	.00051	.00289	.00083
%RSD	253.13	20.083	6.6401	.37907	8.9715
#1	-.00020	.00069	.00728	.75967	.00871
#2	.00070	.00092	.00800	.76375	.00989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-aSD@5 Acquired: 7/27/2017 10:20:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7439**	**.00423**	**-.00003**	**39.122**	**.00377**
Stddev	.0399	.00004	.00004	.236	.00019
%RSD	.45641	.90036	144.26	.60376	5.1623
#1	8.7721	.00420	.00000	39.289	.00363
#2	8.7157	.00426	-.00006	38.955	.00391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**10.042**	**.00085**	**-.00070**	**2.2248**
Stddev	.00044	.011	.00022	.00451	.0079
%RSD	61.131	.10885	25.808	646.25	.35558
#1	.00104	10.035	.00069	-.00389	2.2304
#2	.00041	10.050	.00100	.00249	2.2192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.41035**	**.00030**	**.00252**	**-.00025**
Stddev	.00040	.00258	.00052	.00111	.00023
%RSD	75.467	.62858	171.76	44.225	93.630
#1	.00024	.41217	-.00006	.00331	-.00008
#2	.00080	.40853	.00067	.00173	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-aSD@5 Acquired: 7/27/2017 10:20:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00062
Stddev	.00008
%RSD	13.189
#1	.00068
#2	.00057
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3523.1	2363.6	16732.	3172.3
Stddev	8.0	3.7	6.	18.5
%RSD	.22830	.15653	.03611	.58219
#1	3517.4	2361.0	16728.	3159.3
#2	3528.8	2366.2	16736.	3185.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.245%	98.312%	97.567%	102.09%
Range				

Sample Name: 480-121597-a-1-a PDS Acquired: 7/27/2017 10:23:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10397**	**9.7817**	**.41746**	**.72229**	**.21215**
Stddev	.00089	.0521	.00166	.00079	.00086
%RSD	.85637	.53277	.39803	.10919	.40678
#1	.10334	9.7449	.41629	.72173	.21276
#2	.10460	9.8186	.41864	.72284	.21154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40316**	**88.750**	**.41538**	**.0451**	**.39892**
Stddev	.00041	.029	.00056	.0308	.00022
%RSD	.10112	.03290	.13420	68.30	.05442
#1	.40344	88.729	.41499	.0233	.39908
#2	.40287	88.771	.41578	.0669	.39877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40168**	**.39601**	**20.221**	**13.188**	**.23466**
Stddev	.00243	.00063	.056	.039	.00039
%RSD	.60419	.15842	.27907	.29768	.16813
#1	.40340	.39646	20.261	13.215	.23494
#2	.39996	.39557	20.181	13.160	.23438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-a PDS Acquired: 7/27/2017 10:23:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**63.876**	**.42218**	**.40735**	**198.92**	**.41737**
Stddev	.372	.00220	.00031	.57	.00013
%RSD	.58215	.52136	.07514	.28784	.03190
#1	64.139	.42373	.40757	199.32	.41746
#2	63.613	.42062	.40714	198.51	.41727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41813**	**62.439**	**.41608**	**.42599**	**11.258**
Stddev	.00079	.011	.00018	.00114	.030
%RSD	.18879	.01752	.04207	.26785	.26663
#1	.41757	62.431	.41596	.42519	11.279
#2	.41869	62.447	.41621	.42680	11.237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00264**	**2.2437**	**.39068**	**.39010**	**.42469**
Stddev	.00034	.0085	.00091	.00195	.00361
%RSD	12.891	.37835	.23320	.50049	.84906
#1	.00240	2.2497	.39132	.39148	.42724
#2	.00288	2.2377	.39003	.38872	.42214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-a PDS Acquired: 7/27/2017 10:23:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.42179**
Stddev	.00081
%RSD	.19166
#1	.42236
#2	.42121
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3143.1**	**2279.9**	**16129.**	**3207.0**
Stddev	.4	.8	46.	.5
%RSD	.01136	.03503	.28430	.01532
#1	3143.3	2280.5	16097.	3206.6
#2	3142.8	2279.3	16162.	3207.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.080%	94.829%	94.052%	103.21%
Range				

Sample Name: 480-121597-a-1-b ms Acquired: 7/27/2017 10:26:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05208	10.628	.21533	.77066	.22191
Stddev	.00113	.090	.00108	.00007	.00059
%RSD	2.1623	.84466	.50375	.00869	.26436
#1	.05129	10.564	.21610	.77062	.22150
#2	.05288	10.691	.21457	.77071	.22233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20487	83.634	.21086	.0354	.20462
Stddev	.00099	.439	.00035	.0069	.00000
%RSD	.48214	.52477	.16385	19.43	.00161
#1	.20418	83.324	.21111	.0305	.20462
#2	.20557	83.944	.21062	.0402	.20463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20233	.20557	10.390	13.966	.24740
Stddev	.00029	.00146	.078	.072	.00171
%RSD	.14497	.71078	.74902	.51595	.69299
#1	.20254	.20660	10.335	13.915	.24619
#2	.20213	.20453	10.445	14.017	.24862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-b ms Acquired: 7/27/2017 10:26:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.071**	**.22822**	**.21218**	**212.56**	**.22396**
Stddev	.150	.00053	.00079	2.54	.00042
%RSD	.26810	.23272	.37097	1.1939	.18626
#1	55.965	.22784	.21274	210.77	.22426
#2	56.177	.22860	.21163	214.36	.22367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21437**	**66.179**	**.20840**	**.21375**	**22.292**
Stddev	.00163	.002	.00135	.00372	.147
%RSD	.76160	.00281	.64646	1.7408	.65909
#1	.21552	66.177	.20935	.21638	22.188
#2	.21321	66.180	.20745	.21112	22.396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21468**	**2.3983**	**.19767**	**.19786**	**.21486**
Stddev	.00079	.0192	.00032	.00023	.00062
%RSD	.36817	.80019	.15958	.11572	.28853
#1	.21524	2.3848	.19789	.19770	.21442
#2	.21412	2.4119	.19744	.19802	.21529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-b ms Acquired: 7/27/2017 10:26:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21298**
Stddev	.00150
%RSD	.70431
#1	.21192
#2	.21404
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3145.4**	**2276.6**	**16194.**	**3172.7**
Stddev	3.5	1.3	41.	16.8
%RSD	.11046	.05856	.25498	.52928
#1	3147.8	2275.7	16165.	3184.5
#2	3142.9	2277.6	16223.	3160.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.140%	94.692%	94.429%	102.10%
Range				

Sample Name: 480-121597-a-1-c msd Acquired: 7/27/2017 10:30:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05134**	**10.419**	**.21026**	**.77149**	**.21885**
Stddev	.00134	.113	.00161	.00039	.00080
%RSD	2.6098	1.0884	.76522	.05028	.36652
#1	.05229	10.338	.21140	.77176	.21828
#2	.05039	10.499	.20913	.77121	.21942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20108**	**84.002**	**.20685**	**.0279**	**.20084**
Stddev	.00174	.694	.00013	.0697	.00027
%RSD	.86618	.82651	.06506	249.6	.13389
#1	.19985	83.511	.20695	.0772	.20103
#2	.20231	84.492	.20676	-.0213	.20065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19988**	**.20207**	**10.197**	**13.839**	**.24600**
Stddev	.00024	.00110	.088	.082	.00162
%RSD	.12023	.54207	.86709	.58912	.65675
#1	.19971	.20285	10.135	13.781	.24486
#2	.20005	.20130	10.260	13.897	.24714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-c msd Acquired: 7/27/2017 10:30:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.820**	**.22618**	**.20753**	**214.95**	**.21997**
Stddev	.357	.00138	.00023	1.41	.00016
%RSD	.62808	.61067	.10970	.65462	.07347
#1	56.567	.22521	.20737	213.96	.22008
#2	57.072	.22716	.20769	215.95	.21985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21256**	**66.577**	**.20442**	**.20546**	**22.180**
Stddev	.00143	.066	.00065	.00031	.274
%RSD	.67390	.09987	.31838	.14937	1.2349
#1	.21357	66.624	.20396	.20524	21.987
#2	.21154	66.530	.20488	.20568	22.374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21108**	**2.4242**	**.19588**	**.19196**	**.21304**
Stddev	.00027	.0113	.00102	.00220	.00198
%RSD	.12813	.46683	.52224	1.1459	.93153
#1	.21127	2.4162	.19516	.19352	.21163
#2	.21089	2.4322	.19661	.19041	.21444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121597-a-1-c msd Acquired: 7/27/2017 10:30:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20973**
Stddev	.00005
%RSD	.02186
#1	.20976
#2	.20970
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3147.4**	**2281.8**	**16126.**	**3200.0**
Stddev	3.1	2.9	93.	34.9
%RSD	.09839	.12889	.57778	1.0903
#1	3145.2	2279.7	16192.	3224.6
#2	3149.6	2283.9	16061.	3175.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.194%	94.908%	94.036%	102.98%
Range				

Sample Name: BLANK Acquired: 7/27/2017 10:33:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.00281**	**.00181**	**.00020**	**.00012**
Stddev	.00052	.02002	.00118	.00001	.00000
%RSD	82.940	711.38	65.076	2.9527	3.9147
#1	-.00099	-.01134	.00097	.00021	.00012
#2	-.00026	.01697	.00264	.00020	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00130**	**.00004**	**.0051**	**.00020**
Stddev	.00001	.00112	.00003	.0100	.00009
%RSD	24.273	86.816	63.578	195.9	44.469
#1	-.00003	.00050	.00002	-.0020	.00026
#2	-.00002	.00209	.00006	.0122	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**-.00035**	**-.00334**	**.00491**	**-.00164**
Stddev	.00019	.00076	.00215	.02286	.00080
%RSD	36.647	217.16	64.312	465.14	48.950
#1	.00038	-.00089	-.00486	.02108	-.00108
#2	.00065	.00019	-.00182	-.01125	-.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 10:33:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.00004**	**-.00018**	**.01920**	**-.00002**
Stddev	.00478	.00001	.00009	.01440	.00002
%RSD	242.03	30.415	49.753	75.009	112.70
#1	-.00140	.00005	-.00012	.02938	-.00000
#2	.00535	.00003	-.00025	.00902	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.01143**	**.00095**	**-.00133**	**.01422**
Stddev	.00007	.00070	.00042	.00353	.00341
%RSD	5.7621	6.1558	44.403	265.45	23.981
#1	.00116	.01192	.00065	.00117	.01663
#2	.00126	.01093	.00125	-.00383	.01181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00024**	**.00070**	**.00204**	**-.00056**
Stddev	.00019	.00003	.00040	.00042	.00033
%RSD	78.987	12.115	57.120	20.567	58.855
#1	-.00038	.00026	.00041	.00234	-.00080
#2	-.00011	.00022	.00098	.00174	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 10:33:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00214
Stddev	.00025
%RSD	11.650
#1	.00232
#2	.00197
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3750.8	2405.2	17185.	3182.3
Stddev	6.4	4.7	27.	5.0
%RSD	.16940	.19337	.15426	.15791
#1	3746.3	2401.9	17167.	3185.9
#2	3755.3	2408.5	17204.	3178.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.34%	100.04%	100.21%	102.41%
Range				

Sample Name: mb 480-368425/1-a Acquired: 7/27/2017 10:36:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.04044**	**.00196**	**.00078**	**.00046**
Stddev	.00042	.00296	.00052	.00011	.00003
%RSD	63.127	7.3259	26.384	13.774	6.2928
#1	-.00097	.04253	.00159	.00070	.00044
#2	-.00037	.03834	.00232	.00085	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.08865**	**.00040**	**.0061**	**.00005**
Stddev	.00005	.00118	.00001	.0100	.00007
%RSD	198.13	1.3343	1.3001	164.0	141.70
#1	-.00001	.08781	.00040	-.0010	-.00000
#2	.00006	.08949	.00039	.0131	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00124**	**.00097**	**.02613**	**.07423**	**-.00292**
Stddev	.00003	.00058	.00190	.02100	.00079
%RSD	2.2839	59.657	7.2656	28.295	26.971
#1	.00126	.00138	.02479	.05938	-.00348
#2	.00122	.00056	.02748	.08909	-.00236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368425/1-a Acquired: 7/27/2017 10:36:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00738**	**.00085**	**.00001**	**.08277**	**.00079**
Stddev	.00192	.00008	.00022	.01133	.00004
%RSD	25.939	9.8324	1471.2	13.690	5.1045
#1	.00874	.00079	.00017	.09078	.00082
#2	.00603	.00091	-.00014	.07475	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**.02987**	**.00184**	**-.00161**	**.20798**
Stddev	.00012	.00093	.00111	.00012	.00061
%RSD	11.144	3.1032	60.131	7.1630	.29442
#1	.00121	.03053	.00262	-.00153	.20842
#2	.00103	.02922	.00106	-.00169	.20755
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04810**	**.00036**	**.00110**	**.00026**	**.00016**
Stddev	.00027	.00005	.00056	.00001	.00028
%RSD	.56725	14.029	50.623	3.8217	171.40
#1	.04791	.00032	.00071	.00026	.00036
#2	.04830	.00039	.00150	.00027	-.00003
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368425/1-a Acquired: 7/27/2017 10:36:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F .01097
Stddev	.00038
%RSD	3.4671
#1	.01124
#2	.01070
Check ?	Chk Fail
High Limit	.01000
Low Limit	-.00300

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3805.1	2416.6	17442.	3256.4
Stddev	3.4	1.9	30.	14.5
%RSD	.08910	.07959	.16968	.44460
#1	3802.7	2415.3	17421.	3266.7
#2	3807.5	2418.0	17463.	3246.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.79%	100.52%	101.71%	104.80%
Range				

Sample Name: mb 480-368588/1-a Acquired: 7/27/2017 10:40:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	F **.39146**	**.00190**	**.00080**	**.00186**
Stddev	.00076	.00174	.00057	.00007	.00003
%RSD	146.17	.44444	29.845	8.2163	1.3620
#1	-.00105	.39269	.00230	.00085	.00188
#2	.00002	.39023	.00150	.00075	.00184
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.20000			
Low Limit		-.04000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.11871**	**.00012**	**.0154**	**.00005**
Stddev	.00001	.00352	.00001	.0009	.00007
%RSD	25.603	2.9672	6.7649	5.821	129.18
#1	.00003	.11622	.00012	.0147	.00000
#2	.00004	.12120	.00013	.0160	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.00466**	F **.14789**	F **.07607**	**.04544**	**-.00158**
Stddev	.00033	.00096	.00188	.02864	.00117
%RSD	7.0594	.64655	2.4657	63.040	73.836
#1	.00489	.14722	.07475	.02518	-.00076
#2	.00443	.14857	.07740	.06569	-.00241
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	.00400	.01000	.05000		
Low Limit	-.00300	-.00400	-.04000		

Sample Name: mb 480-368588/1-a Acquired: 7/27/2017 10:40:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00107**	**.00024**	**.05424**	**.00106**
Stddev	.00022	.00005	.00013	.00329	.00005
%RSD	47.672	4.7910	53.301	6.0622	5.1358
#1	-.00031	.00104	.00032	.05656	.00110
#2	-.00063	.00111	.00015	.05191	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00346**	**.03130**	**.00309**	**-.00022**	**.28592**
Stddev	.00151	.00330	.00055	.00339	.00541
%RSD	43.742	10.534	17.634	1563.2	1.8918
#1	.00453	.03363	.00348	-.00261	.28975
#2	.00239	.02896	.00271	.00218	.28210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.08941**	**.00030**	**.00191**	**.00081**	**.00018**
Stddev	.00068	.00009	.00025	.00138	.00011
%RSD	.75677	30.773	13.078	169.99	58.499
#1	.08893	.00023	.00173	.00179	.00011
#2	.08988	.00037	.00208	-.00016	.00026
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368588/1-a Acquired: 7/27/2017 10:40:11 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00296
Stddev	.00025
%RSD	8.6064
#1	.00314
#2	.00278
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3795.7	2412.1	17395.	3235.8
Stddev	1.2	3.6	19.	6.4
%RSD	.03183	.15127	.10915	.19801
#1	3794.8	2409.6	17382.	3240.4
#2	3796.5	2414.7	17409.	3231.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.54%	100.33%	101.43%	104.13%
Range				

Sample Name: 480-121501-c-6-a Acquired: 7/27/2017 10:43:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00218**	**41.463**	**.02952**	**.06351**	**.15550**
Stddev	.00002	.024	.00102	.00057	.00016
%RSD	1.0416	.05736	3.4654	.89511	.10463
#1	-.00217	41.479	.03025	.06311	.15538
#2	-.00220	41.446	.02880	.06391	.15561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**484.87**	**.00108**	**.3042**	**.02739**
Stddev	.00004	.20	.00001	.0128	.00015
%RSD	2.4427	.04066	.67613	4.196	.53767
#1	.00186	484.74	.00108	.2951	.02729
#2	.00180	485.01	.00109	.3132	.02749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06119**	**.06137**	**79.265**	**10.192**	**.05558**
Stddev	.00053	.00038	.210	.043	.00139
%RSD	.86599	.61890	.26467	.41841	2.4958
#1	.06082	.06164	79.413	10.162	.05657
#2	.06157	.06110	79.116	10.222	.05460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-6-a Acquired: 7/27/2017 10:43:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**171.50**	**2.6754**	**.00291**	**1.5299**	**.07045**
Stddev	.08	.0001	.00007	.0053	.00018
%RSD	.04419	.00414	2.4148	.34467	.25326
#1	171.55	2.6753	.00296	1.5337	.07032
#2	171.45	2.6755	.00286	1.5262	.07058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04483**	**1.2013**	**-.00014**	**-.00070**	**3.5806**
Stddev	.00033	.0014	.00025	.00371	.0832
%RSD	.72759	.11590	184.38	533.61	2.3221
#1	.04506	1.2023	.00004	-.00332	3.6394
#2	.04460	1.2003	-.00031	.00193	3.5219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05221**	**.52702**	**1.4087**	**-.00274**	**.11784**
Stddev	.00084	.00006	.0005	.00073	.00053
%RSD	1.5994	.01135	.03790	26.583	.45106
#1	.05280	.52706	1.4083	-.00325	.11822
#2	.05162	.52698	1.4091	-.00222	.11747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121501-c-6-a Acquired: 7/27/2017 10:43:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.26433**
Stddev	.00025
%RSD	.09328
#1	.26415
#2	.26450
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2905.3**	**2379.9**	**16834.**	**3439.7**
Stddev	4.7	1.4	36.	8.1
%RSD	.16285	.06024	.21260	.23636
#1	2902.0	2378.9	16860.	3445.4
#2	2908.7	2380.9	16809.	3433.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.719%	98.988%	98.163%	110.70%
Range				

Sample Name: BLANK Acquired: 7/27/2017 10:46:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**-.00158**	**.00223**	**-.00130**	**-.00000**
Stddev	.00014	.01729	.00209	.00018	.00001
%RSD	21.986	1095.1	93.480	13.763	1386.3
#1	-.00052	-.01380	.00371	-.00143	-.00001
#2	-.00071	.01065	.00076	-.00117	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.02787**	**.00002**	**.0256**	**.00010**
Stddev	.00000	.00229	.00008	.0323	.00019
%RSD	4.4993	8.2206	402.28	126.3	182.21
#1	.00005	.02949	.00007	.0027	.00024
#2	.00006	.02625	-.00004	.0485	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.00033**	**.00314**	**.01176**	**-.00067**
Stddev	.00011	.00059	.00341	.04431	.00064
%RSD	156.37	180.45	108.71	376.90	95.577
#1	.00015	.00009	.00555	-.01957	-.00113
#2	-.00001	-.00074	.00073	.04309	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 10:46:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00684**	**.00010**	**-.00012**	**.00201**	**.00017**
Stddev	.00532	.00004	.00001	.00391	.00022
%RSD	77.705	38.112	9.2056	193.96	125.36
#1	.01061	.00013	-.00013	-.00075	.00002
#2	.00308	.00008	-.00011	.00478	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00080**	**-.00041**	**-.00220**	**.00388**
Stddev	.00139	.00068	.00003	.00143	.00163
%RSD	292.64	84.617	8.1441	65.033	42.061
#1	.00146	.00032	-.00044	-.00322	.00503
#2	-.00051	.00128	-.00039	-.00119	.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00017**	**.00070**	**.00153**	**-.00052**
Stddev	.00022	.00011	.00055	.00105	.00040
%RSD	70.927	63.959	78.815	68.794	77.313
#1	-.00015	.00009	.00031	.00227	-.00080
#2	-.00046	.00024	.00108	.00079	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 10:46:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00005
Stddev	.00025
%RSD	496.05
#1	.00023
#2	-.00013
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3764.7	2419.2	17156.	3201.7
Stddev	.9	.9	40.	23.9
%RSD	.02428	.03885	.23383	.74518
#1	3764.1	2418.5	17127.	3218.6
#2	3765.3	2419.9	17184.	3184.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.71%	100.62%	100.04%	103.04%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:50:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51310**	**24.964**	**.49871**	**.49889**	**.48991**
Stddev	.00436	.018	.00031	.00068	.00289
%RSD	.85071	.07205	.06302	.13554	.59078
#1	.51618	24.951	.49894	.49841	.49196
#2	.51001	24.976	.49849	.49936	.48787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49440**	**24.741**	**.49789**	**.0138**	**.49277**
Stddev	.00072	.001	.00044	.0134	.00076
%RSD	.14464	.00342	.08809	97.28	.15411
#1	.49390	24.741	.49758	.0232	.49331
#2	.49491	24.742	.49820	.0043	.49224
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50932**	**.49015**	**24.055**	**23.934**	**.48922**
Stddev	.00131	.00009	.064	.077	.00081
%RSD	.25782	.01823	.26433	.32091	.16487
#1	.51024	.49021	24.010	23.988	.48865
#2	.50839	.49009	24.100	23.879	.48979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:50:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.945**	**.51039**	**.50963**	**24.267**	**.49728**
Stddev	.121	.00228	.00153	.013	.00143
%RSD	.48610	.44597	.29944	.05275	.28696
#1	25.031	.51200	.51071	24.276	.49829
#2	24.859	.50878	.50855	24.258	.49627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49824**	**24.677**	**.49595**	**.50434**	**24.151**
Stddev	.00201	.001	.00069	.00571	.079
%RSD	.40249	.00280	.13840	1.1313	.32588
#1	.49965	24.676	.49643	.50030	24.096
#2	.49682	24.677	.49546	.50837	24.207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50475**	**.47856**	**.49257**	**.49229**	**.51715**
Stddev	.00085	.00027	.00111	.00141	.00434
%RSD	.16799	.05562	.22564	.28645	.83992
#1	.50535	.47837	.49336	.49130	.52023
#2	.50415	.47874	.49179	.49329	.51408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 10:50:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51503
Stddev	.00126
%RSD	.24432
#1	.51592
#2	.51414
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3415.9	2378.2	16631.	3213.8
Stddev	.7	4.0	5.	.6
%RSD	.02000	.16899	.03031	.01751
#1	3416.4	2381.0	16635.	3213.4
#2	3415.4	2375.4	16628.	3214.2

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:53:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00617**	**.00284**	**-.00056**	**-.00002**
Stddev	.00037	.00075	.00081	.00006	.00004
%RSD	114.25	12.243	28.556	10.301	231.71
#1	.00006	-.00670	.00227	-.00052	.00001
#2	.00058	-.00563	.00341	-.00060	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00511**	**.00008**	**.0001**	**.00009**
Stddev	.00006	.00058	.00003	.0036	.00001
%RSD	249.70	11.336	42.305	2968.	6.6672
#1	.00007	.00552	.00010	.0026	.00009
#2	-.00002	.00470	.00006	-.0024	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00079**	**-.00170**	**.04999**	**.00027**
Stddev	.00001	.00012	.00094	.00024	.00005
%RSD	2.1379	15.677	55.165	.48767	18.788
#1	.00046	-.00070	-.00103	.04982	.00031
#2	.00048	-.00088	-.00236	.05016	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:53:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00170**	**.00012**	**.00004**	**.01216**	**.00012**
Stddev	.00132	.00003	.00015	.00513	.00024
%RSD	77.896	25.502	361.39	42.202	198.84
#1	-.00076	.00010	-.00006	.01579	-.00005
#2	-.00263	.00014	.00015	.00853	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00445**	**.00071**	**.00060**	**.01236**
Stddev	.00093	.00230	.00107	.00030	.00512
%RSD	1282.6	51.789	151.18	49.412	41.459
#1	.00059	.00608	-.00005	.00039	.00874
#2	-.00073	.00282	.00146	.00081	.01598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00009**	**.00072**	**.00222**	**.00025**
Stddev	.00051	.00006	.00054	.00080	.00028
%RSD	161.26	71.940	74.528	35.892	110.72
#1	-.00067	.00013	.00110	.00279	.00005
#2	.00004	.00004	.00034	.00166	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 10:53:33 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00005
Stddev	.00007
%RSD	126.27
#1	.00001
#2	.00010
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3768.9	2420.8	17170.	3219.7
Stddev	7.4	2.4	47.	19.4
%RSD	.19518	.10052	.27627	.60110
#1	3763.7	2419.1	17137.	3206.0
#2	3774.1	2422.6	17204.	3233.4

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:56:58 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00533**	**.19031**	**.01641**	**.01836**	**.00204**
Stddev	.00001	.00946	.00076	.00021	.00002
%RSD	.24168	4.9721	4.6290	1.1518	.99525
#1	.00532	.18362	.01588	.01851	.00205
#2	.00534	.19700	.01695	.01821	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.49799**	**.00217**	**.0077**	**.00406**
Stddev	.00001	.00554	.00004	.0048	.00007
%RSD	.55728	1.1121	1.9255	62.37	1.6558
#1	.00212	.49407	.00220	.0112	.00401
#2	.00214	.50190	.00214	.0043	.00411
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00415**	**.00885**	**.04854**	**.46661**	**.02653**
Stddev	.00024	.00007	.00077	.00173	.00060
%RSD	5.7005	.82901	1.5921	.37017	2.2682
#1	.00432	.00890	.04799	.46783	.02611
#2	.00398	.00880	.04908	.46539	.02696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:56:58 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20049**	**.00311**	**.00995**	**.96853**	**.00946**
Stddev	.00033	.00002	.00010	.00738	.00013
%RSD	.16398	.77857	.96092	.76209	1.3518
#1	.20072	.00309	.00988	.96331	.00937
#2	.20026	.00312	.01002	.97375	.00955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01048**	**.19347**	**.02079**	**.02632**	**.51447**
Stddev	.00033	.00263	.00007	.00367	.00308
%RSD	3.1653	1.3581	.31951	13.931	.59871
#1	.01025	.19161	.02084	.02373	.51229
#2	.01072	.19533	.02074	.02892	.51665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00964**	**.00495**	**.00475**	**.02177**	**.00487**
Stddev	.00026	.00017	.00036	.00071	.00006
%RSD	2.6760	3.5175	7.5558	3.2811	1.2980
#1	.00946	.00483	.00500	.02227	.00482
#2	.00982	.00508	.00449	.02126	.00491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 10:56:58 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01136
Stddev	.00053
%RSD	4.7072
#1	.01174
#2	.01098
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3778.5	2438.9	17318.	3223.0
Stddev	14.6	10.4	11.	22.8
%RSD	.38716	.42642	.06082	.70690
#1	3788.9	2446.3	17325.	3239.1
#2	3768.2	2431.6	17310.	3206.9

Sample Name: 480-121506-c-16-b@5 Acquired: 7/27/2017 11:00:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**14.563**	**.00676**	**.06115**	**.08301**
Stddev	.00104	.003	.00127	.00019	.00023
%RSD	163.30	.02093	18.733	.31223	.27820
#1	-.00137	14.566	.00586	.06129	.08318
#2	.00010	14.561	.00765	.06102	.08285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**231.35**	**.00083**	**.0578**	**.00708**
Stddev	.00001	.56	.00005	.0025	.00002
%RSD	1.4000	.24061	5.5069	4.363	.31130
#1	.00070	231.75	.00080	.0595	.00709
#2	.00069	230.96	.00087	.0560	.00706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28553**	**.21404**	**15.885**	**4.7828**	**.04266**
Stddev	.00064	.00138	.022	.0006	.00062
%RSD	.22312	.64448	.13843	.01153	1.4622
#1	.28598	.21502	15.900	4.7832	.04222
#2	.28508	.21307	15.869	4.7824	.04310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-16-b@5 Acquired: 7/27/2017 11:00:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.703**	**.37446**	**.00065**	**.51397**	**.33956**
Stddev	.294	.00092	.00002	.00122	.00004
%RSD	.42786	.24621	2.7857	.23751	.01244
#1	68.911	.37511	.00066	.51483	.33959
#2	68.495	.37381	.00063	.51311	.33953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07887**	**.76850**	**-.00089**	**-.00023**	**.57106**
Stddev	.00120	.00258	.00296	.00202	.01080
%RSD	1.5224	.33523	333.69	876.20	1.8907
#1	.07972	.76668	.00121	-.00166	.56343
#2	.07802	.77032	-.00298	.00120	.57870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03399**	**.27960**	**.16998**	**.00110**	**.02681**
Stddev	.00003	.00051	.00124	.00034	.00025
%RSD	.09977	.18207	.72952	31.144	.93947
#1	.03397	.27996	.17086	.00134	.02699
#2	.03402	.27924	.16910	.00085	.02664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-16-b@5 Acquired: 7/27/2017 11:00:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.09743**
Stddev	.00111
%RSD	1.1410
#1	.09822
#2	.09664
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3200.0**	**2317.1**	**16420.**	**3192.0**
Stddev	6.0	5.6	48.	2.8
%RSD	.18663	.23992	.29460	.08623
#1	3204.3	2321.1	16386.	3190.0
#2	3195.8	2313.2	16454.	3193.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.603%	96.377%	95.748%	102.72%
Range				

Sample Name: 480-121506-c-20-b@5 Acquired: 7/27/2017 11:03:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**8.6042**	**.01090**	**.04600**	**.27523**
Stddev	.00068	.0766	.00115	.00025	.00097
%RSD	87.445	.89071	10.583	.53535	.35111
#1	-.00030	8.5500	.01009	.04582	.27592
#2	-.00125	8.6584	.01172	.04617	.27455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**368.13**	**.00098**	**.0537**	**.00748**
Stddev	.00003	3.76	.00004	.0114	.00017
%RSD	7.0807	1.0220	3.6585	21.29	2.2246
#1	.00040	365.47	.00096	.0618	.00736
#2	.00036	370.79	.00101	.0456	.00760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95409**	**.42166**	**35.150**	**2.9648**	**.01282**
Stddev	.00332	.00050	.437	.0511	.00089
%RSD	.34812	.11835	1.2440	1.7225	6.9271
#1	.95643	.42202	34.841	2.9287	.01345
#2	.95174	.42131	35.460	3.0009	.01220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-20-b@5 Acquired: 7/27/2017 11:03:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.336**	**.55440**	**.00156**	**.33141**	**.81200**
Stddev	.281	.00211	.00006	.00492	.00149
%RSD	.47295	.38012	4.0872	1.4860	.18291
#1	59.534	.55589	.00160	.33489	.81095
#2	59.137	.55291	.00151	.32793	.81305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14841**	**2.4305**	**.00093**	**-.00294**	**.57079**
Stddev	.00151	.0010	.00058	.00169	.00076
%RSD	1.0176	.03918	62.632	57.468	.13258
#1	.14734	2.4299	.00052	-.00175	.57025
#2	.14948	2.4312	.00134	-.00414	.57132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04308**	**4.8697**	**.11639**	**.00162**	**.02894**
Stddev	.00035	.0420	.00214	.00018	.00034
%RSD	.81986	.86231	1.8384	11.113	1.1850
#1	.04284	4.8401	.11790	.00149	.02918
#2	.04333	4.8994	.11488	.00175	.02870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121506-c-20-b@5 Acquired: 7/27/2017 11:03:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.25404**
Stddev	.00270
%RSD	1.0611
#1	.25595
#2	.25214
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3102.9**	**2290.2**	**16115.**	**3181.8**
Stddev	4.0	.6	16.	20.1
%RSD	.12753	.02512	.09860	.63025
#1	3105.7	2290.6	16104.	3195.9
#2	3100.1	2289.8	16126.	3167.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.004%	95.257%	93.970%	102.39%
Range				

Sample Name: mb 480-368710/1-a Acquired: 7/27/2017 11:07:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.04638**	**.00109**	**.00285**	**.00009**
Stddev	.00038	.00000	.00033	.00001	.00002
%RSD	88.181	.00930	30.628	.21761	16.753
#1	-.00016	.04637	.00133	.00284	.00008
#2	-.00070	.04638	.00085	.00285	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.08705**	**-.00000**	**.0343**	**.00012**
Stddev	.00004	.00165	.00003	.0184	.00003
%RSD	52.368	1.8970	5190.1	53.68	23.346
#1	-.00009	.08588	-.00002	.0473	.00010
#2	-.00004	.08822	.00002	.0213	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00027**	**.00415**	**-.03058**	**-.00116**
Stddev	.00040	.00078	.00054	.00085	.00036
%RSD	187.06	292.53	12.924	2.7894	31.237
#1	-.00007	.00028	.00377	-.02998	-.00090
#2	.00049	-.00082	.00453	-.03118	-.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368710/1-a Acquired: 7/27/2017 11:07:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00761**	**.00103**	**-.00025**	**.02579**	**.00015**
Stddev	.00261	.00007	.00010	.00404	.00021
%RSD	34.291	6.9012	38.762	15.658	137.90
#1	.00945	.00098	-.00018	.02294	.00030
#2	.00576	.00108	-.00032	.02865	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.02659**	**-.00031**	**-.00173**	**.01249**
Stddev	.00002	.00076	.00049	.00012	.00941
%RSD	2.5830	2.8748	161.69	6.9094	75.353
#1	.00063	.02713	-.00065	-.00165	.01915
#2	.00066	.02605	.00004	-.00182	.00584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.00054**	**.00062**	**.00156**	**.00010**
Stddev	.00002	.00003	.00006	.00076	.00010
%RSD	2.9366	5.0993	10.136	48.588	97.616
#1	-.00072	.00056	.00066	.00102	.00003
#2	-.00075	.00052	.00057	.00210	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368710/1-a Acquired: 7/27/2017 11:07:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00071
Stddev	.00005
%RSD	7.1530
#1	.00068
#2	.00075
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3852.7	2471.2	17616.	3269.5
Stddev	5.6	3.4	37.	6.0
%RSD	.14504	.13676	.20737	.18388
#1	3856.7	2473.6	17590.	3273.8
#2	3848.8	2468.8	17642.	3265.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.06%	102.79%	102.72%	105.22%
Range				

Sample Name: lcs 480-368710/2-a Acquired: 7/27/2017 11:10:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04955**	**10.335**	**.20139**	**.20250**	**.20029**
Stddev	.00018	.049	.00069	.00042	.00073
%RSD	.35341	.47254	.34077	.20795	.36337
#1	.04943	10.300	.20187	.20280	.20080
#2	.04968	10.369	.20090	.20220	.19978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19879**	**9.9608**	**.20186**	**.0071**	**.18943**
Stddev	.00025	.0059	.00001	.0421	.00011
%RSD	.12627	.05924	.00517	595.5	.05714
#1	.19861	9.9567	.20186	-.0227	.18951
#2	.19896	9.9650	.20187	.0368	.18935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19925**	**.19972**	**10.175**	**9.6089**	**.19645**
Stddev	.00068	.00043	.003	.0448	.00126
%RSD	.34245	.21692	.02978	.46638	.63975
#1	.19973	.20002	10.177	9.5772	.19556
#2	.19876	.19941	10.173	9.6406	.19734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368710/2-a Acquired: 7/27/2017 11:10:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.223**	**.20890**	**.20373**	**9.6934**	**.19452**
Stddev	.063	.00067	.00020	.0013	.00015
%RSD	.61231	.31900	.09844	.01376	.07642
#1	10.267	.20937	.20387	9.6925	.19462
#2	10.179	.20843	.20359	9.6944	.19441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20323**	**9.8694**	**.19933**	**.19833**	**9.9308**
Stddev	.00073	.0109	.00155	.00112	.0147
%RSD	.35852	.11067	.77845	.56570	.14827
#1	.20271	9.8771	.20042	.19913	9.9413
#2	.20374	9.8617	.19823	.19754	9.9204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19859**	**.19361**	**.19433**	**.19960**	**.20490**
Stddev	.00049	.00105	.00105	.00039	.00017
%RSD	.24563	.54338	.54177	.19524	.08136
#1	.19825	.19287	.19507	.19933	.20478
#2	.19894	.19435	.19358	.19988	.20502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368710/2-a Acquired: 7/27/2017 11:10:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20805
Stddev	.00128
%RSD	.61334
#1	.20895
#2	.20714
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3634.3	2442.4	17303.	3268.5
Stddev	10.1	5.6	7.	15.4
%RSD	.27823	.22763	.04309	.47248
#1	3641.4	2446.3	17298.	3279.4
#2	3627.1	2438.5	17309.	3257.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.219%	101.59%	100.90%	105.18%
Range				

Sample Name: 480-121588-e-1-b Acquired: 7/27/2017 11:13:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00727**	**.00233**	**.02334**	**.17703**
Stddev	.00098	.01144	.00065	.00010	.00031
%RSD	449.82	157.39	27.863	.41876	.17502
#1	-.00091	-.00082	.00279	.02327	.17725
#2	.00047	.01535	.00187	.02341	.17681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**50.212**	**.00018**	**.0283**	**.00017**
Stddev	.00001	.038	.00019	.0127	.00020
%RSD	36.432	.07487	105.94	44.96	119.14
#1	-.00004	50.238	.00032	.0373	.00003
#2	-.00002	50.185	.00005	.0193	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00049**	**.02171**	**1.2994**	**.01215**
Stddev	.00036	.00023	.00189	.0154	.00021
%RSD	58.128	46.220	8.6921	1.1877	1.7176
#1	.00037	-.00065	.02037	1.2885	.01201
#2	.00088	-.00033	.02304	1.3104	.01230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-1-b Acquired: 7/27/2017 11:13:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.507**	**.28181**	**.00004**	**116.51**	**.00255**
Stddev	.000	.00087	.00019	.00	.00018
%RSD	.00039	.31000	482.39	.00321	7.0991
#1	15.507	.28243	.00017	116.51	.00268
#2	15.507	.28120	-.00009	116.52	.00243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**6.0152**	**.00028**	**-.00085**	**5.0587**
Stddev	.00038	.0134	.00199	.00152	.0108
%RSD	29.587	.22246	699.89	178.40	.21357
#1	.00103	6.0246	-.00112	-.00192	5.0664
#2	.00157	6.0057	.00169	.00022	5.0511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.28845**	**.00105**	**.00267**	**.00003**
Stddev	.00007	.00024	.00020	.00075	.00079
%RSD	27.574	.08159	18.718	27.881	2837.3
#1	-.00022	.28862	.00118	.00320	.00058
#2	-.00032	.28828	.00091	.00215	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-1-b Acquired: 7/27/2017 11:13:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00425**
Stddev	.00008
%RSD	1.8159
#1	.00420
#2	.00431
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3361.1**	**2349.8**	**16603.**	**3232.5**
Stddev	1.3	1.1	71.	1.1
%RSD	.03768	.04821	.42879	.03532
#1	3362.0	2350.6	16553.	3231.7
#2	3360.2	2349.0	16654.	3233.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.912%	97.736%	96.817%	104.03%
Range				

Sample Name: 480-121588-e-2-b Acquired: 7/27/2017 11:17:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.02601**	**.00270**	**.02344**	**.18135**
Stddev	.00015	.00875	.00093	.00005	.00025
%RSD	124.59	33.627	34.277	.22005	.14031
#1	-.00001	.03219	.00336	.02341	.18153
#2	-.00022	.01983	.00205	.02348	.18117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**51.348**	**.00017**	**.0021**	**-.00002**
Stddev	.00007	.239	.00004	.0149	.00024
%RSD	89.944	.46547	26.449	722.0	1109.1
#1	.00003	51.517	.00014	.0126	.00015
#2	.00013	51.179	.00020	-.0085	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.00023**	**.02262**	**1.3559**	**.01421**
Stddev	.00056	.00020	.00295	.0115	.00033
%RSD	68.022	84.952	13.058	.84915	2.3420
#1	.00123	.00009	.02053	1.3478	.01397
#2	.00043	.00037	.02471	1.3641	.01444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-2-b Acquired: 7/27/2017 11:17:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.870**	**.28546**	**.00012**	**119.82**	**.00223**
Stddev	.004	.00039	.00002	.55	.00004
%RSD	.02279	.13723	16.462	.46274	1.6547
#1	15.868	.28518	.00010	120.21	.00226
#2	15.873	.28574	.00013	119.43	.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**6.1278**	**.00011**	**-.00247**	**5.1558**
Stddev	.00079	.0029	.00232	.00028	.0322
%RSD	45.802	.04714	2131.4	11.517	.62499
#1	.00117	6.1298	-.00153	-.00227	5.1786
#2	.00229	6.1258	.00175	-.00267	5.1330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.29691**	**.00093**	**.00214**	**-.00019**
Stddev	.00033	.00034	.00073	.00025	.00072
%RSD	64.725	.11338	78.614	11.518	376.04
#1	-.00074	.29715	.00145	.00231	-.00070
#2	-.00028	.29668	.00041	.00197	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-2-b Acquired: 7/27/2017 11:17:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00438
Stddev	.00068
%RSD	15.545
#1	.00486
#2	.00390
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3365.1	2353.5	16646.	3207.1
Stddev	12.3	8.3	32.	25.1
%RSD	.36508	.35429	.19153	.78255
#1	3373.7	2359.4	16668.	3189.3
#2	3356.4	2347.6	16623.	3224.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.017%	97.891%	97.064%	103.21%
Range				

Sample Name: 480-121588-e-3-b Acquired: 7/27/2017 11:20:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00157**	**.01941**	**.00026**	**.01393**	**.14699**
Stddev	.00007	.02248	.00372	.00015	.00092
%RSD	4.5731	115.83	1449.2	1.0483	.62325
#1	-.00152	.03531	.00289	.01383	.14634
#2	-.00162	.00351	-.00237	.01404	.14763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**34.100**	**.00026**	**.0381**	**.00007**
Stddev	.00010	.277	.00006	.0192	.00003
%RSD	329.28	.81265	22.973	50.30	42.439
#1	.00010	33.904	.00022	.0517	.00005
#2	-.00004	34.296	.00030	.0246	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00017**	**.00930**	**.87824**	**.01372**
Stddev	.00002	.00035	.00382	.05646	.00049
%RSD	62.886	212.10	41.097	6.4293	3.5473
#1	.00002	.00042	.01201	.83831	.01406
#2	.00004	-.00008	.00660	.91816	.01338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-3-b Acquired: 7/27/2017 11:20:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.310**	**.16167**	**.00040**	**71.954**	**.00122**
Stddev	.122	.00124	.00004	.486	.00031
%RSD	.91551	.76669	9.2207	.67555	25.836
#1	13.224	.16079	.00042	71.611	.00100
#2	13.396	.16255	.00037	72.298	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00251**	**6.2731**	**-.00071**	**-.00133**	**5.3452**
Stddev	.00043	.0034	.00124	.00317	.0472
%RSD	17.185	.05344	175.52	237.78	.88236
#1	.00220	6.2708	.00017	-.00357	5.3118
#2	.00281	6.2755	-.00159	.00091	5.3785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.18401**	**.00123**	**.00321**	**-.00037**
Stddev	.00050	.00164	.00033	.00029	.00012
%RSD	75.798	.89185	27.193	9.1666	32.205
#1	-.00101	.18284	.00099	.00342	-.00029
#2	-.00030	.18517	.00146	.00300	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-3-b Acquired: 7/27/2017 11:20:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00245**
Stddev	.00007
%RSD	2.8066
#1	.00240
#2	.00250
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3467.8**	**2379.8**	**16778.**	**3240.1**
Stddev	4.4	.7	137.	23.4
%RSD	.12548	.02800	.81519	.72190
#1	3470.8	2379.4	16875.	3256.7
#2	3464.7	2380.3	16682.	3223.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.765%	98.986%	97.837%	104.27%
Range				

Sample Name: 480-121588-e-4-b Acquired: 7/27/2017 11:23:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.03149**	**.00280**	**.08680**	**.05337**
Stddev	.00068	.00092	.00075	.00053	.00025
%RSD	102.72	2.9327	26.632	.60720	.47115
#1	-.00114	.03084	.00333	.08717	.05354
#2	-.00018	.03214	.00227	.08642	.05319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**16.536**	**.00010**	**.0198**	**.00008**
Stddev	.00009	.022	.00012	.0135	.00002
%RSD	14295.	.13488	127.24	68.40	27.497
#1	.00007	16.551	.00001	.0294	.00006
#2	-.00006	16.520	.00019	.0102	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.00075**	**.01631**	**.95333**	**.00029**
Stddev	.00054	.00104	.00074	.06427	.00218
%RSD	73.095	138.42	4.5616	6.7419	750.06
#1	.00113	.00149	.01578	.90788	-.00125
#2	.00036	.00002	.01683	.99877	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-4-b Acquired: 7/27/2017 11:23:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7822**	**.00519**	**-.00008**	**5.7829**	**.00077**
Stddev	.0013	.00000	.00004	.0014	.00008
%RSD	.04527	.07125	52.190	.02334	10.711
#1	2.7813	.00519	-.00011	5.7819	.00072
#2	2.7831	.00519	-.00005	5.7838	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**6.1683**	**.00020**	**-.00235**	**4.1590**
Stddev	.00059	.0088	.00010	.00282	.0039
%RSD	56.177	.14279	47.416	119.93	.09448
#1	.00063	6.1620	.00027	-.00036	4.1618
#2	.00147	6.1745	.00013	-.00435	4.1562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.07158**	**.00095**	**.00171**	**-.00013**
Stddev	.00016	.00018	.00015	.00033	.00011
%RSD	52.088	.25094	15.673	19.222	85.802
#1	-.00043	.07171	.00084	.00148	-.00005
#2	-.00020	.07146	.00105	.00195	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-4-b Acquired: 7/27/2017 11:23:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03353
Stddev	.00038
%RSD	1.1342
#1	.03380
#2	.03326
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3719.9	2432.2	17242.	3251.1
Stddev	.0	3.0	2.	.5
%RSD	.00051	.12424	.01160	.01686
#1	3719.9	2434.3	17243.	3251.5
#2	3719.9	2430.1	17241.	3250.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.510%	101.16%	100.54%	104.63%
Range				

Sample Name: 480-121588-e-5-d Acquired: 7/27/2017 11:27:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**.05636**	**-.00023**	**.02158**	**.11824**
Stddev	.00093	.00542	.00128	.00056	.00003
%RSD	81.290	9.6180	555.77	2.6103	.02805
#1	-.00181	.05253	.00067	.02118	.11827
#2	-.00049	.06019	-.00113	.02197	.11822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**29.936**	**.00009**	**.0360**	**.00008**
Stddev	.00004	.046	.00004	.0272	.00005
%RSD	106.77	.15405	45.974	75.50	61.585
#1	.00007	29.904	.00006	.0168	.00005
#2	.00001	29.969	.00013	.0552	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00033**	**.05141**	**.92482**	**.00999**
Stddev	.00102	.00003	.00127	.01251	.00096
%RSD	242.58	7.8832	2.4614	1.3522	9.6364
#1	-.00030	.00031	.05230	.91597	.00931
#2	.00114	.00035	.05051	.93366	.01067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d Acquired: 7/27/2017 11:27:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.145**	**.15558**	**-.00003**	**92.043**	**.00184**
Stddev	.026	.00000	.00022	.210	.00033
%RSD	.23526	.00020	784.66	.22768	17.966
#1	11.127	.15558	.00012	91.895	.00160
#2	11.164	.15558	-.00018	92.192	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**6.1374**	**.00095**	**-.00152**	**5.1894**
Stddev	.00089	.0092	.00111	.00122	.0234
%RSD	73.143	.15074	116.72	80.115	.45153
#1	.00059	6.1309	.00017	-.00239	5.1728
#2	.00186	6.1440	.00174	-.00066	5.2060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.17648**	**.00161**	**.00296**	**-.00025**
Stddev	.00038	.00011	.00092	.00062	.00003
%RSD	248.42	.06275	57.469	21.058	10.809
#1	-.00042	.17640	.00226	.00252	-.00027
#2	.00011	.17655	.00095	.00341	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d Acquired: 7/27/2017 11:27:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00213
Stddev	.00033
%RSD	15.570
#1	.00190
#2	.00237
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3434.5	2368.0	16678.	3205.4
Stddev	4.0	1.9	28.	20.5
%RSD	.11564	.08069	.16578	.63961
#1	3431.7	2366.6	16658.	3219.9
#2	3437.3	2369.3	16697.	3190.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.875%	98.493%	97.252%	103.16%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 11:30:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51750**	**24.909**	**.50033**	**.49863**	**.48997**
Stddev	.00159	.140	.00683	.00104	.00044
%RSD	.30803	.56378	1.3647	.20804	.09034
#1	.51862	25.008	.50516	.49937	.48965
#2	.51637	24.810	.49550	.49790	.49028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49795**	**24.753**	**.49748**	**.0137**	**.49208**
Stddev	.00266	.069	.00115	.0094	.00070
%RSD	.53338	.27704	.23096	68.55	.14220
#1	.49983	24.801	.49829	.0070	.49257
#2	.49607	24.704	.49667	.0203	.49158
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50996**	**.49143**	**24.174**	**24.193**	**.48896**
Stddev	.00066	.00076	.108	.110	.00298
%RSD	.12998	.15421	.44691	.45329	.60962
#1	.51043	.49196	24.250	24.270	.49106
#2	.50950	.49089	24.098	24.115	.48685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 11:30:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.926**	**.50968**	**.50875**	**24.488**	**.49711**
Stddev	.025	.00002	.00029	.039	.00163
%RSD	.10039	.00394	.05662	.16060	.32779
#1	24.943	.50969	.50854	24.516	.49826
#2	24.908	.50966	.50895	24.460	.49595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49630**	**24.700**	**.49655**	**.50284**	**24.084**
Stddev	.00063	.010	.00091	.00330	.075
%RSD	.12678	.03888	.18292	.65643	.31156
#1	.49674	24.707	.49719	.50050	24.137
#2	.49585	24.694	.49591	.50517	24.031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50367**	**.48393**	**.49200**	**.49348**	**.52122**
Stddev	.00033	.00178	.00073	.00136	.00254
%RSD	.06544	.36856	.14846	.27626	.48728
#1	.50391	.48519	.49251	.49445	.52301
#2	.50344	.48266	.49148	.49252	.51942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 11:30:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51840**
Stddev	.00005
%RSD	.00947
#1	.51843
#2	.51837
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3419.1**	**2379.4**	**16524.**	**3179.1**
Stddev	3.6	2.6	12.	6.7
%RSD	.10461	.10766	.07534	.21166
#1	3416.6	2377.6	16515.	3174.4
#2	3421.6	2381.2	16533.	3183.9

Sample Name: CCB-4130963 Acquired: 7/27/2017 11:33:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.00773**	**.00256**	**-.00069**	**.00003**
Stddev	.00035	.01693	.00198	.00012	.00002
%RSD	44.976	219.03	77.385	16.825	59.966
#1	-.00053	.00424	.00397	-.00061	.00002
#2	-.00102	-.01970	.00116	-.00078	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00066**	**-.00001**	**.0194**	**.00024**
Stddev	.00008	.00458	.00015	.0067	.00005
%RSD	212.40	692.45	1262.3	34.66	19.256
#1	-.00002	-.00390	.00009	.0242	.00028
#2	.00010	.00258	-.00012	.0147	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**-.00010**	**-.00111**	**.00572**	**.00150**
Stddev	.00064	.00023	.00265	.05062	.00008
%RSD	66.431	225.89	239.50	884.80	5.2620
#1	.00141	-.00027	.00077	.04151	.00145
#2	.00051	.00006	-.00298	-.03007	.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 11:33:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00478**	**-.00001**	**-.00010**	**.00112**	**.00008**
Stddev	.00304	.00002	.00006	.00098	.00008
%RSD	63.600	128.40	60.833	87.744	98.219
#1	.00263	-.00000	-.00014	.00181	.00002
#2	.00693	-.00002	-.00006	.00042	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.00229**	**.00027**	**-.00266**	**.01988**
Stddev	.00006	.00099	.00002	.00424	.00200
%RSD	8.0174	43.086	7.2811	159.50	10.058
#1	.00085	.00298	.00025	.00034	.02130
#2	.00076	.00159	.00028	-.00566	.01847
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00006**	**.00013**	**.00172**	**-.00007**
Stddev	.00026	.00006	.00024	.00121	.00042
%RSD	531.73	94.559	185.16	70.476	610.34
#1	.00014	.00010	-.00004	.00257	-.00037
#2	-.00023	.00002	.00029	.00086	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 11:33:44 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00026**
Stddev	.00030
%RSD	117.37
#1	-.00047
#2	-.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3753.1**	**2414.3**	**17165.**	**3201.0**
Stddev	2.8	2.3	5.	6.4
%RSD	.07335	.09406	.02644	.19926
#1	3751.2	2415.9	17162.	3196.5
#2	3755.1	2412.7	17168.	3205.5

Sample Name: CCVL-4147888 Acquired: 7/27/2017 11:37:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00593**	**.19293**	**.01657**	**.01833**	**.00204**
Stddev	.00060	.00628	.00200	.00027	.00000
%RSD	10.126	3.2528	12.103	1.4787	.10729
#1	.00636	.19737	.01798	.01852	.00204
#2	.00551	.18849	.01515	.01814	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**.49502**	**.00213**	**.0093**	**.00392**
Stddev	.00000	.00485	.00011	.0230	.00003
%RSD	.04992	.97931	4.9867	248.4	.72941
#1	.00207	.49159	.00205	-.0070	.00394
#2	.00207	.49845	.00220	.0256	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**.01013**	**.04682**	**.46911**	**.03034**
Stddev	.00007	.00042	.00025	.00392	.00075
%RSD	1.8452	4.1200	.52662	.83587	2.4600
#1	.00382	.01042	.04665	.46634	.03086
#2	.00392	.00983	.04699	.47188	.02981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 11:37:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20035**	**.00302**	**.01014**	**.97667**	**.00979**
Stddev	.00604	.00002	.00006	.00452	.00037
%RSD	3.0135	.73838	.58430	.46266	3.7665
#1	.20462	.00304	.01010	.97348	.01005
#2	.19608	.00300	.01018	.97987	.00952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00927**	**.19132**	**.02145**	**.02488**	**.49889**
Stddev	.00038	.00097	.00057	.00008	.00170
%RSD	4.0802	.50492	2.6407	.32515	.34139
#1	.00953	.19200	.02185	.02494	.50009
#2	.00900	.19064	.02105	.02483	.49768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00889**	**.00485**	**.00514**	**.02102**	**.00486**
Stddev	.00002	.00001	.00023	.00052	.00026
%RSD	.17277	.15042	4.4495	2.4956	5.2471
#1	.00887	.00484	.00530	.02139	.00468
#2	.00890	.00485	.00498	.02065	.00504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 11:37:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01111
Stddev	.00052
%RSD	4.6679
#1	.01148
#2	.01074
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3764.9	2428.6	17294.	3209.4
Stddev	10.0	6.5	18.	6.6
%RSD	.26456	.26834	.10204	.20715
#1	3757.8	2424.0	17307.	3214.1
#2	3771.9	2433.2	17282.	3204.7

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/27/2017 11:40:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10196**	**10.041**	**.40981**	**.21935**	**.31390**
Stddev	.00058	.012	.00068	.00033	.00117
%RSD	.56430	.11579	.16685	.15105	.37342
#1	.10236	10.049	.40932	.21912	.31307
#2	.10155	10.033	.41029	.21959	.31473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40424**	**48.728**	**.41029**	**.0085**	**.39150**
Stddev	.00156	.140	.00003	.0084	.00017
%RSD	.38554	.28686	.00825	98.68	.04224
#1	.40314	48.629	.41031	.0145	.39139
#2	.40534	48.827	.41026	.0026	.39162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40896**	**.39567**	**20.228**	**10.514**	**.20812**
Stddev	.00018	.00041	.119	.063	.00113
%RSD	.04415	.10372	.58616	.60142	.54099
#1	.40909	.39538	20.144	10.469	.20891
#2	.40883	.39596	20.312	10.559	.20732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/27/2017 11:40:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.251**	**.55789**	**.40077**	**97.905**	**.39709**
Stddev	.035	.00136	.00069	.607	.00131
%RSD	.11177	.24304	.17131	.62011	.33013
#1	31.226	.55693	.40126	97.475	.39802
#2	31.276	.55885	.40029	98.334	.39617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41111**	**15.812**	**.41174**	**.41650**	**5.0850**
Stddev	.00050	.010	.00243	.00158	.0299
%RSD	.12081	.06022	.59109	.37818	.58702
#1	.41146	15.806	.41002	.41761	5.0639
#2	.41075	15.819	.41346	.41538	5.1061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.36289**	**.39468**	**.39856**	**.42007**
Stddev	.00003	.00226	.00151	.00019	.00075
%RSD	35.194	.62212	.38285	.04821	.17942
#1	-.00006	.36129	.39361	.39869	.41954
#2	-.00010	.36448	.39574	.39842	.42060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-dSD@5 Acquired: 7/27/2017 11:40:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.42496**
Stddev	.00014
%RSD	.03406
#1	.42506
#2	.42486
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3342.5**	**2369.3**	**16634.**	**3239.7**
Stddev	.7	.2	41.	.0
%RSD	.01969	.00912	.24489	.00085
#1	3343.0	2369.5	16605.	3239.7
#2	3342.0	2369.2	16662.	3239.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.414%	98.548%	96.994%	104.26%
Range				

Sample Name: 480-121588-e-5-d PDS Acquired: 7/27/2017 11:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**.05936**	**.00027**	**.00642**	**.02386**
Stddev	.00081	.01543	.00289	.00023	.00001
%RSD	68.850	25.996	1067.7	3.5124	.02671
#1	-.00061	.07027	-.00177	.00658	.02387
#2	-.00176	.04845	.00232	.00626	.02386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**6.0045**	**.00009**	**.0333**	**.00023**
Stddev	.00001	.0248	.00008	.0043	.00011
%RSD	28.957	.41238	90.747	12.93	49.373
#1	.00005	5.9870	.00003	.0302	.00015
#2	.00003	6.0220	.00015	.0363	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00075**	**.00998**	**.19407**	**.00181**
Stddev	.00080	.00062	.00056	.01084	.00070
%RSD	920.46	81.930	5.6275	5.5857	38.791
#1	.00065	-.00032	.01038	.20173	.00132
#2	-.00048	-.00119	.00958	.18640	.00231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d PDS Acquired: 7/27/2017 11:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2166**	**.03128**	**-.00010**	**18.441**	**.00054**
Stddev	.0215	.00001	.00009	.067	.00007
%RSD	.96862	.01807	91.418	.36070	13.778
#1	2.2318	.03128	-.00016	18.394	.00059
#2	2.2014	.03129	-.00003	18.488	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**1.1751**	**.00076**	**.00212**	**1.0291**
Stddev	.00055	.0025	.00017	.00145	.0015
%RSD	45.619	.21128	22.522	68.462	.15036
#1	.00159	1.1768	.00064	.00110	1.0302
#2	.00081	1.1733	.00088	.00315	1.0280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.03554**	**.00035**	**.00172**	**-.00065**
Stddev	.00008	.00012	.00000	.00077	.00019
%RSD	27.565	.33137	1.0879	45.003	29.881
#1	-.00022	.03545	.00035	.00226	-.00051
#2	-.00033	.03562	.00035	.00117	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-d PDS Acquired: 7/27/2017 11:43:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00250**
Stddev	.00069
%RSD	27.533
#1	.00202
#2	.00299
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3638.9**	**2395.5**	**16995.**	**3193.5**
Stddev	6.6	2.6	116.	23.5
%RSD	.18234	.10997	.67961	.73603
#1	3643.6	2397.3	16914.	3210.2
#2	3634.2	2393.6	17077.	3176.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.342%	99.636%	99.102%	102.77%
Range				

Sample Name: 480-121588-e-5-e ms Acquired: 7/27/2017 11:47:08 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04863	10.432	.20081	.21858	.31547
Stddev	.00030	.019	.00196	.00039	.00002
%RSD	.61618	.18150	.97539	.18069	.00544
#1	.04842	10.446	.19943	.21886	.31548
#2	.04884	10.419	.20220	.21830	.31546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19661	40.841	.19864	.0017	.19127
Stddev	.00090	.071	.00029	.0103	.00005
%RSD	.45922	.17419	.14546	598.8	.02856
#1	.19725	40.892	.19885	.0090	.19123
#2	.19597	40.791	.19844	-.0056	.19131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19617	.19467	10.244	10.566	.20393
Stddev	.00077	.00008	.072	.061	.00163
%RSD	.39280	.03896	.70490	.57625	.79861
#1	.19563	.19462	10.295	10.609	.20508
#2	.19672	.19472	10.193	10.522	.20278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-e ms Acquired: 7/27/2017 11:47:08 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.657**	**.43857**	**.19889**	**101.14**	**.19727**
Stddev	.045	.00057	.00011	.93	.00051
%RSD	.20988	.13051	.05622	.92360	.26099
#1	21.625	.43817	.19897	101.80	.19691
#2	21.689	.43898	.19881	100.48	.19763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20203**	**16.095**	**.19150**	**.19706**	**15.597**
Stddev	.00111	.002	.00125	.00266	.063
%RSD	.55001	.01463	.65254	1.3521	.40520
#1	.20282	16.093	.19238	.19517	15.641
#2	.20124	16.096	.19062	.19894	15.552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20138**	**.36713**	**.19964**	**.19326**	**.20162**
Stddev	.00017	.00204	.00094	.00025	.00008
%RSD	.08650	.55497	.47013	.12903	.03777
#1	.20150	.36858	.20030	.19309	.20168
#2	.20126	.36569	.19898	.19344	.20157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-e ms Acquired: 7/27/2017 11:47:08 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20645
Stddev	.00096
%RSD	.46611
#1	.20577
#2	.20713
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3358.0	2377.4	16720.	3254.1
Stddev	13.5	9.9	33.	6.2
%RSD	.40134	.41695	.20011	.18917
#1	3367.5	2384.4	16743.	3249.7
#2	3348.4	2370.4	16696.	3258.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.827%	98.884%	97.496%	104.72%
Range				

Sample Name: 480-121588-e-5-f msd Acquired: 7/27/2017 11:50:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04931**	**10.551**	**.20338**	**.22186**	**.31915**
Stddev	.00020	.041	.00075	.00057	.00009
%RSD	.40147	.38951	.36688	.25591	.02940
#1	.04917	10.521	.20390	.22146	.31922
#2	.04945	10.580	.20285	.22227	.31909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19790**	**40.917**	**.20089**	**.0124**	**.19296**
Stddev	.00153	.202	.00021	.0042	.00035
%RSD	.77475	.49400	.10298	33.65	.18023
#1	.19682	40.774	.20075	.0094	.19321
#2	.19899	41.060	.20104	.0153	.19272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19865**	**.19618**	**10.300**	**10.640**	**.20667**
Stddev	.00013	.00183	.048	.011	.00109
%RSD	.06649	.93248	.46733	.10723	.52920
#1	.19874	.19488	10.266	10.632	.20589
#2	.19855	.19747	10.334	10.648	.20744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-f msd Acquired: 7/27/2017 11:50:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.810**	**.43982**	**.19999**	**101.44**	**.19983**
Stddev	.042	.00039	.00027	.12	.00037
%RSD	.19236	.08830	.13282	.11659	.18389
#1	21.840	.43955	.19981	101.35	.20009
#2	21.781	.44010	.20018	101.52	.19957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20600**	**16.240**	**.19631**	**.19865**	**15.618**
Stddev	.00012	.009	.00111	.00041	.059
%RSD	.05655	.05419	.56508	.20769	.37857
#1	.20592	16.246	.19553	.19836	15.576
#2	.20608	16.234	.19710	.19894	15.659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20278**	**.36760**	**.20239**	**.19656**	**.20532**
Stddev	.00042	.00123	.00023	.00015	.00175
%RSD	.20862	.33484	.11461	.07553	.85002
#1	.20248	.36673	.20222	.19646	.20655
#2	.20308	.36847	.20255	.19667	.20408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-5-f msd Acquired: 7/27/2017 11:50:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20833
Stddev	.00180
%RSD	.86594
#1	.20705
#2	.20960
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3352.5	2371.3	16635.	3240.9
Stddev	7.4	.5	43.	25.6
%RSD	.22013	.02137	.25884	.79015
#1	3347.3	2371.0	16604.	3259.0
#2	3357.7	2371.7	16665.	3222.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.681%	98.633%	97.000%	104.30%
Range				

Sample Name: 480-121588-e-6-b Acquired: 7/27/2017 11:53:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.82319**	**.00318**	**.02759**	**.07085**
Stddev	.00011	.01326	.00200	.00028	.00031
%RSD	45.979	1.6112	62.893	1.0117	.43252
#1	-.00032	.81381	.00459	.02779	.07107
#2	-.00016	.83257	.00176	.02739	.07063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**20.737**	**.00038**	**.0297**	**.00072**
Stddev	.00001	.114	.00009	.0066	.00012
%RSD	43.571	.55143	24.288	22.17	16.112
#1	.00004	20.656	.00031	.0343	.00081
#2	.00002	20.818	.00044	.0250	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**.01113**	**.84082**	**1.8733**	**.00567**
Stddev	.00036	.00029	.00651	.0326	.00172
%RSD	15.609	2.5869	.77455	1.7399	30.406
#1	.00258	.01133	.83621	1.8503	.00689
#2	.00206	.01092	.84542	1.8964	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-6-b Acquired: 7/27/2017 11:53:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3296**	**.35721**	**.00189**	**12.668**	**.00327**
Stddev	.0458	.00037	.00004	.101	.00026
%RSD	.62458	.10389	1.9941	.79917	7.9631
#1	7.3620	.35747	.00191	12.596	.00308
#2	7.2972	.35694	.00186	12.740	.00345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00453**	**7.3209**	**.00009**	**-.00114**	**7.9145**
Stddev	.00071	.0061	.00067	.00315	.0372
%RSD	15.710	.08353	737.72	274.91	.47019
#1	.00403	7.3166	.00057	-.00337	7.8882
#2	.00504	7.3253	-.00038	.00108	7.9408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.08565**	**.01788**	**.00334**	**.00097**
Stddev	.00004	.00065	.00078	.00151	.00002
%RSD	7.8633	.76194	4.3669	45.275	1.5456
#1	-.00047	.08519	.01732	.00441	.00096
#2	-.00042	.08612	.01843	.00227	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-6-b Acquired: 7/27/2017 11:53:33 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01225
Stddev	.00003
%RSD	.28230
#1	.01223
#2	.01228
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3672.3	2447.6	17328.	3292.6
Stddev	5.5	5.4	47.	17.1
%RSD	.15054	.21968	.27035	.52030
#1	3668.4	2443.8	17361.	3304.7
#2	3676.2	2451.4	17295.	3280.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.236%	101.81%	101.04%	105.96%
Range				

Sample Name: 480-121588-e-7-b Acquired: 7/27/2017 11:56:54 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**.19661**	**.00112**	**.01727**	**.15027**
Stddev	.00098	.00009	.00239	.00041	.00073
%RSD	60.563	.04342	213.98	2.3701	.48414
#1	-.00231	.19667	-.00057	.01698	.15078
#2	-.00093	.19655	.00281	.01756	.14975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**29.696**	**.00023**	**.0063**	**.00024**
Stddev	.00008	.076	.00007	.0007	.00011
%RSD	278.37	.25694	29.787	11.22	45.058
#1	.00003	29.750	.00028	.0058	.00032
#2	-.00009	29.642	.00018	.0068	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**-.00006**	**.21210**	**.92546**	**.00480**
Stddev	.00002	.00023	.00221	.04050	.00091
%RSD	4.7456	411.88	1.0432	4.3761	18.867
#1	.00037	.00011	.21366	.95410	.00544
#2	.00040	-.00022	.21053	.89682	.00416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-7-b Acquired: 7/27/2017 11:56:54 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.610**	**.14311**	**-.00010**	**99.483**	**.00208**
Stddev	.037	.00095	.00009	.378	.00025
%RSD	.34778	.66261	95.073	.37995	11.765
#1	10.636	.14378	-.00003	99.215	.00226
#2	10.584	.14244	-.00016	99.750	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00152**	**5.8144**	**.00068**	**.00063**	**4.1191**
Stddev	.00052	.0054	.00165	.00127	.0249
%RSD	33.923	.09343	241.74	200.38	.60418
#1	.00116	5.8183	-.00048	-.00026	4.1015
#2	.00189	5.8106	.00185	.00153	4.1367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.18494**	**.00389**	**.00244**	**-.00007**
Stddev	.00006	.00069	.00022	.00023	.00022
%RSD	17.114	.37258	5.7721	9.3525	303.48
#1	-.00031	.18445	.00405	.00228	-.00023
#2	-.00039	.18543	.00373	.00260	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-7-b Acquired: 7/27/2017 11:56:54 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01397
Stddev	.00002
%RSD	.14407
#1	.01398
#2	.01396
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3439.6	2386.7	16744.	3219.4
Stddev	.5	3.6	22.	18.3
%RSD	.01321	.15183	.13010	.56830
#1	3439.9	2389.2	16729.	3206.4
#2	3439.3	2384.1	16759.	3232.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.011%	99.269%	97.637%	103.61%
Range				

Sample Name: 480-121588-e-8-b Acquired: 7/27/2017 12:00:15 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.03270**	**.00264**	**.00333**	**.00018**
Stddev	.00041	.01892	.00242	.00003	.00002
%RSD	70.565	57.864	91.755	.86973	10.964
#1	-.00029	.04607	.00093	.00335	.00019
#2	-.00086	.01932	.00436	.00331	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.07921**	**-.00001**	**.0086**	**.00007**
Stddev	.00001	.00746	.00013	.0142	.00002
%RSD	46.121	9.4204	2546.2	165.4	25.821
#1	.00001	.07393	.00009	.0187	.00006
#2	.00003	.08449	-.00010	-.0015	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00063**	**.00304**	**-.00054**	**-.00185**
Stddev	.00084	.00067	.00042	.04097	.00207
%RSD	247.98	105.92	13.738	7558.0	112.19
#1	.00094	-.00016	.00274	.02842	-.00038
#2	-.00026	-.00110	.00333	-.02951	-.00331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-8-b Acquired: 7/27/2017 12:00:15 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00445**	**.00108**	**-.00025**	**.02196**	**.00044**
Stddev	.00322	.00006	.00012	.00388	.00018
%RSD	72.427	5.8187	48.604	17.662	39.884
#1	.00217	.00112	-.00016	.01922	.00057
#2	.00673	.00104	-.00034	.02470	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**.01410**	**.00045**	**.00158**	**.02359**
Stddev	.00035	.00054	.00178	.00012	.01084
%RSD	34.017	3.8648	391.31	7.8053	45.962
#1	.00077	.01371	-.00080	.00149	.03126
#2	.00126	.01448	.00171	.00167	.01593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00051**	**.00043**	**.00224**	**.00015**
Stddev	.00005	.00004	.00005	.00016	.00030
%RSD	6.9951	7.9781	10.603	6.9347	195.17
#1	-.00067	.00048	.00040	.00213	.00036
#2	-.00074	.00054	.00046	.00234	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121588-e-8-b Acquired: 7/27/2017 12:00:15 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00526**
Stddev	.00022
%RSD	4.1122
#1	.00542
#2	.00511
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3851.0**	**2475.9**	**17558.**	**3246.1**
Stddev	12.5	7.3	4.	24.9
%RSD	.32399	.29299	.02538	.76577
#1	3859.8	2481.0	17561.	3263.7
#2	3842.2	2470.7	17555.	3228.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.02%	102.98%	102.38%	104.47%
Range				

Sample Name: 480-121599-c-3-b Acquired: 7/27/2017 12:03:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00112**	**.09280**	**.00301**	**.01286**	**.14486**
Stddev	.00043	.01240	.00014	.00016	.00034
%RSD	38.506	13.367	4.5503	1.2329	.23745
#1	-.00143	.08403	.00311	.01275	.14510
#2	-.00082	.10157	.00292	.01297	.14462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**25.201**	**.00018**	**.0138**	**.00004**
Stddev	.00004	.063	.00005	.0241	.00011
%RSD	752.83	.25053	29.586	174.4	279.10
#1	.00003	25.246	.00014	-.0032	.00012
#2	-.00002	25.156	.00022	.0309	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.00475**	**.15835**	**2.8570**	**-.00248**
Stddev	.00043	.00066	.00234	.0366	.00027
%RSD	24.630	13.806	1.4765	1.2806	10.938
#1	.00143	.00521	.15669	2.8828	-.00268
#2	.00203	.00429	.16000	2.8311	-.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121599-c-3-b Acquired: 7/27/2017 12:03:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.1595**	**.00546**	**-.00013**	**3.4812**	**.00135**
Stddev	.0235	.00003	.00008	.0104	.00062
%RSD	.56510	.51819	60.513	.29856	45.546
#1	4.1761	.00548	-.00007	3.4885	.00179
#2	4.1428	.00544	-.00019	3.4738	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00296**	**3.6066**	**-.00065**	**.00017**	**5.8158**
Stddev	.00022	.0079	.00001	.00388	.0329
%RSD	7.3822	.21875	2.2772	2306.5	.56493
#1	.00281	3.6011	-.00064	-.00258	5.8390
#2	.00312	3.6122	-.00066	.00291	5.7926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.29832**	**.01375**	**.00256**	**.00096**
Stddev	.00002	.00048	.00026	.00110	.00007
%RSD	4.0802	.15988	1.8610	42.884	6.8758
#1	-.00051	.29866	.01394	.00178	.00101
#2	-.00054	.29799	.01357	.00334	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121599-c-3-b Acquired: 7/27/2017 12:03:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01233**
Stddev	.00041
%RSD	3.3592
#1	.01203
#2	.01262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3713.0**	**2444.1**	**17151.**	**3251.7**
Stddev	4.5	.3	29.	20.5
%RSD	.12007	.01075	.17106	.63017
#1	3709.9	2443.9	17172.	3237.2
#2	3716.2	2444.2	17130.	3266.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.326%	101.66%	100.01%	104.65%
Range				

Sample Name: 480-121622-b-1-a Acquired: 7/27/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.04863**	**.00242**	**.81606**	**.15602**
Stddev	.00038	.00905	.00015	.00226	.00046
%RSD	55.267	18.611	6.2204	.27650	.29429
#1	-.00042	.05503	.00253	.81446	.15570
#2	-.00096	.04223	.00231	.81765	.15635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**104.93**	**.00031**	**.0300**	**.00274**
Stddev	.00005	.61	.00002	.0116	.00010
%RSD	933.48	.57669	4.9154	38.69	3.6132
#1	-.00003	104.50	.00030	.0382	.00267
#2	.00004	105.36	.00032	.0218	.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.00121**	**24.711**	**51.214**	**.05542**
Stddev	.00036	.00050	.179	.241	.00085
%RSD	17.599	41.278	.72270	.47117	1.5416
#1	.00180	.00085	24.585	51.043	.05602
#2	.00231	.00156	24.838	51.384	.05481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-1-a Acquired: 7/27/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**70.458**	**.19252**	**-.00035**	**59.123**	**.01176**
Stddev	.178	.00077	.00005	.570	.00064
%RSD	.25240	.39842	13.257	.96343	5.4058
#1	70.332	.19198	-.00039	58.721	.01221
#2	70.584	.19306	-.00032	59.526	.01131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00481**	**1.3448**	**-.00001**	**-.00237**	**8.2181**
Stddev	.00023	.0049	.00049	.00238	.0098
%RSD	4.7312	.36509	4676.9	100.38	.11867
#1	.00465	1.3413	.00034	-.00069	8.2112
#2	.00497	1.3483	-.00036	-.00405	8.2250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.16839**	**.00216**	**.00287**	**.00039**
Stddev	.00038	.00137	.00011	.00125	.00031
%RSD	19.322	.81094	4.9857	43.546	79.869
#1	.00225	.16743	.00208	.00199	.00017
#2	.00171	.16936	.00224	.00376	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-1-a Acquired: 7/27/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00815
Stddev	.00011
%RSD	1.3516
#1	.00808
#2	.00823
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3279.3	2340.2	16526.	3270.7
Stddev	2.5	4.5	78.	33.0
%RSD	.07570	.19057	.47298	1.0085
#1	3281.0	2343.3	16581.	3294.1
#2	3277.5	2337.0	16470.	3247.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.722%	97.335%	96.364%	105.26%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51409**	**24.964**	**.49772**	**.49816**	**.48978**
Stddev	.00008	.019	.00156	.00117	.00154
%RSD	.01502	.07688	.31318	.23572	.31393
#1	.51415	24.950	.49882	.49899	.49087
#2	.51404	24.977	.49662	.49733	.48869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49827**	**24.652**	**.49681**	**.0075**	**.49192**
Stddev	.00064	.079	.00063	.0161	.00012
%RSD	.12935	.32147	.12661	214.6	.02465
#1	.49781	24.596	.49636	.0189	.49184
#2	.49872	24.708	.49725	-.0039	.49201
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51290**	**.49351**	**23.949**	**24.056**	**.48869**
Stddev	.00102	.00269	.006	.039	.00049
%RSD	.19961	.54572	.02442	.16132	.10012
#1	.51363	.49541	23.945	24.083	.48834
#2	.51218	.49160	23.953	24.028	.48903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.851**	**.51027**	**.50732**	**24.461**	**.49704**
Stddev	.069	.00042	.00105	.063	.00023
%RSD	.27713	.08151	.20602	.25707	.04602
#1	24.802	.50998	.50806	24.417	.49720
#2	24.899	.51057	.50658	24.505	.49688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49822**	**24.679**	**.49385**	**.49791**	**23.941**
Stddev	.00073	.005	.00023	.00230	.155
%RSD	.14730	.02081	.04725	.46233	.64767
#1	.49874	24.682	.49369	.49628	23.831
#2	.49770	24.675	.49402	.49954	24.050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50352**	**.48123**	**.49501**	**.49324**	**.51820**
Stddev	.00028	.00046	.00138	.00326	.00041
%RSD	.05639	.09466	.27946	.66104	.07935
#1	.50372	.48091	.49598	.49094	.51790
#2	.50332	.48155	.49403	.49555	.51849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:10:23 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51439**
Stddev	.00359
%RSD	.69868
#1	.51185
#2	.51693
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3412.2**	**2379.0**	**16659.**	**3198.3**
Stddev	1.3	1.4	32.	23.7
%RSD	.03944	.05685	.19045	.74197
#1	3411.3	2378.0	16636.	3181.5
#2	3413.2	2379.9	16681.	3215.0

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:13:32 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00092**	**-.00170**	**.00043**	**-.00087**	**.00003**
Stddev	.00048	.00179	.00287	.00028	.00001
%RSD	52.289	104.79	666.72	31.743	45.567
#1	-.00058	-.00044	.00246	-.00106	.00003
#2	-.00126	-.00297	-.00160	-.00067	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00314**	**.00012**	**.0062**	**.00021**
Stddev	.00007	.00070	.00002	.0073	.00004
%RSD	390.90	22.315	18.553	116.5	20.092
#1	.00003	.00265	.00011	.0011	.00018
#2	-.00007	.00364	.00014	.0114	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00035**	**-.00098**	**.00426**	**-.00052**
Stddev	.00018	.00030	.00065	.02926	.00048
%RSD	38.234	84.886	66.130	687.42	92.409
#1	.00061	.00056	-.00052	.02495	-.00087
#2	.00035	.00014	-.00143	-.01644	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:13:32 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00250**	**.00003**	**-.00008**	**.00191**	**.00012**
Stddev	.00152	.00002	.00008	.00191	.00030
%RSD	60.902	65.105	95.289	100.17	262.82
#1	.00142	.00001	-.00014	.00326	.00033
#2	.00358	.00004	-.00003	.00056	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.00282**	**.00049**	**-.00008**	**.00903**
Stddev	.00073	.00141	.00013	.00058	.00047
%RSD	87.173	50.055	26.459	727.82	5.1700
#1	.00136	.00382	.00040	.00033	.00870
#2	.00032	.00182	.00059	-.00049	.00936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00007**	**.00062**	**.00208**	**-.00008**
Stddev	.00026	.00008	.00004	.00001	.00010
%RSD	119.64	109.32	6.9513	.50176	119.90
#1	-.00003	.00013	.00059	.00209	-.00015
#2	-.00041	.00002	.00066	.00207	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:13:32 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00007**
Stddev	.00015
%RSD	231.51
#1	-.00018
#2	.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3742.6**	**2407.8**	**17159.**	**3172.0**
Stddev	1.7	1.7	24.	23.5
%RSD	.04612	.07151	.13974	.73968
#1	3741.4	2406.6	17142.	3188.6
#2	3743.8	2409.0	17176.	3155.5

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00645**	**.20561**	**.01610**	**.01872**	**.00205**
Stddev	.00041	.00367	.00104	.00005	.00000
%RSD	6.3947	1.7868	6.4860	.25763	.15966
#1	.00616	.20301	.01684	.01869	.00205
#2	.00675	.20820	.01536	.01875	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.49765**	**.00224**	**.0180**	**.00417**
Stddev	.00002	.01026	.00014	.0125	.00006
%RSD	.88857	2.0616	6.1059	69.50	1.4197
#1	.00200	.49040	.00214	.0268	.00412
#2	.00197	.50491	.00234	.0092	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**.01000**	**.04897**	**.48463**	**.02877**
Stddev	.00032	.00094	.00288	.01436	.00127
%RSD	7.1930	9.3882	5.8888	2.9622	4.4005
#1	.00465	.00934	.04693	.47448	.02967
#2	.00420	.01067	.05101	.49478	.02788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20008**	**.00312**	**.00996**	**.97314**	**.00997**
Stddev	.00262	.00013	.00005	.00642	.00032
%RSD	1.3114	4.2245	.49080	.65991	3.1619
#1	.19822	.00321	.00992	.96860	.01019
#2	.20193	.00302	.00999	.97768	.00974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00995**	**.19242**	**.02001**	**.02235**	**.48974**
Stddev	.00088	.00088	.00010	.00246	.01850
%RSD	8.8197	.45670	.51808	10.985	3.7775
#1	.00933	.19180	.01994	.02062	.47666
#2	.01057	.19304	.02009	.02409	.50282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00917**	**.00483**	**.00470**	**.02054**	**.00432**
Stddev	.00044	.00013	.00020	.00006	.00004
%RSD	4.7834	2.6444	4.3384	.27648	.87950
#1	.00886	.00474	.00455	.02058	.00430
#2	.00948	.00492	.00484	.02050	.00435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:16:57 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01065
Stddev	.00003
%RSD	.25517
#1	.01067
#2	.01063
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3763.2	2432.6	17287.	3167.6
Stddev	2.1	.7	20.	33.3
%RSD	.05486	.02960	.11722	1.0512
#1	3761.8	2432.1	17302.	3191.2
#2	3764.7	2433.1	17273.	3144.1

Sample Name: 480-121622-b-2-a Acquired: 7/27/2017 12:20:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.07199**	**.00322**	**.54337**	**.43222**
Stddev	.00032	.00869	.00009	.00002	.00109
%RSD	24.866	12.070	2.7474	.00411	.25161
#1	.00151	.06584	.00328	.54336	.43299
#2	.00106	.07813	.00315	.54339	.43145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**162.08**	**.00036**	**.0148**	**.00193**
Stddev	.00003	1.59	.00001	.0106	.00011
%RSD	61.128	.97795	3.7459	71.68	5.5445
#1	-.00003	163.20	.00035	.0073	.00186
#2	-.00008	160.96	.00036	.0223	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00165**	**.00407**	**26.947**	**37.879**	**.00126**
Stddev	.00011	.00086	.303	.260	.00188
%RSD	6.4087	20.993	1.1253	.68539	149.08
#1	.00157	.00347	27.162	38.062	.00259
#2	.00172	.00468	26.733	37.695	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-2-a Acquired: 7/27/2017 12:20:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.888**	**.12342**	**.00085**	**41.102**	**.00545**
Stddev	.253	.00033	.00004	.285	.00012
%RSD	.30177	.27143	4.4255	.69397	2.1649
#1	84.067	.12365	.00082	41.304	.00537
#2	83.709	.12318	.00088	40.900	.00553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**1.1572**	**-.00074**	**-.00085**	**10.974**
Stddev	.00014	.0049	.00159	.00313	.130
%RSD	5.5976	.42264	215.72	368.99	1.1889
#1	.00264	1.1606	.00039	.00136	11.066
#2	.00244	1.1537	-.00186	-.00306	10.882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.45082**	**.00324**	**.00245**	**-.00019**
Stddev	.00016	.00423	.00059	.00130	.00020
%RSD	108.25	.93826	18.163	52.951	105.20
#1	.00003	.45381	.00283	.00153	-.00034
#2	.00025	.44782	.00366	.00337	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-2-a Acquired: 7/27/2017 12:20:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02108
Stddev	.00074
%RSD	3.5329
#1	.02160
#2	.02055
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3235.9	2315.2	16458.	3217.2
Stddev	11.1	5.6	49.	23.0
%RSD	.34274	.24178	.29956	.71418
#1	3243.7	2319.2	16423.	3201.0
#2	3228.0	2311.2	16493.	3233.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.562%	96.297%	95.971%	103.54%
Range				

Sample Name: 480-121622-b-3-a Acquired: 7/27/2017 12:23:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.05793**	**.00560**	**2.2421**	**.01634**
Stddev	.00075	.00446	.00055	.0004	.00002
%RSD	91.830	7.6931	9.9165	.02028	.10899
#1	-.00029	.05478	.00599	2.2418	.01635
#2	-.00134	.06109	.00520	2.2424	.01633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**8.8461**	**.00039**	**.0027**	**.00911**
Stddev	.00003	.0157	.00006	.0122	.00012
%RSD	528.70	.17748	16.390	460.8	1.2979
#1	-.00003	8.8572	.00044	.0113	.00920
#2	.00001	8.8350	.00035	-.0060	.00903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00255**	**.00247**	**12.155**	**157.42**	**.00578**
Stddev	.00037	.00070	.035	.80	.00099
%RSD	14.572	28.315	.28451	.50846	17.138
#1	.00282	.00296	12.179	157.98	.00649
#2	.00229	.00197	12.130	156.85	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-3-a Acquired: 7/27/2017 12:23:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**94.843**	**.06290**	**.00045**	**345.98**	**.02688**
Stddev	.249	.00004	.00019	1.87	.00003
%RSD	.26214	.05743	41.267	.53990	.10033
#1	95.018	.06287	.00058	347.30	.02689
#2	94.667	.06293	.00032	344.66	.02686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00167**	**2.6895**	**.00067**	**-.00213**	**1.2811**
Stddev	.00021	.0030	.00125	.00017	.0057
%RSD	12.758	.11224	186.00	7.9217	.44482
#1	.00152	2.6916	.00156	-.00225	1.2851
#2	.00182	2.6873	-.00021	-.00201	1.2770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00262**	**.09560**	**.00170**	**.00187**	**-.00066**
Stddev	.00029	.00049	.00025	.00067	.00022
%RSD	10.942	.50974	14.603	35.925	33.382
#1	.00241	.09595	.00152	.00139	-.00082
#2	.00282	.09526	.00187	.00234	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-3-a Acquired: 7/27/2017 12:23:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01513**
Stddev	.00008
%RSD	.53039
#1	.01519
#2	.01507
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3092.3**	**2282.8**	**15992.**	**3250.2**
Stddev	5.2	2.3	14.	13.2
%RSD	.16909	.10273	.09054	.40510
#1	3096.0	2284.5	16002.	3240.9
#2	3088.6	2281.1	15982.	3259.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.720%	94.950%	93.251%	104.60%
Range				

Sample Name: 480-121622-b-4-a Acquired: 7/27/2017 12:27:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00150**	**.06522**	**.00121**	**.82825**	**.07041**
Stddev	.00021	.00486	.00096	.00124	.00037
%RSD	13.706	7.4467	79.746	.14912	.52119
#1	-.00165	.06178	.00053	.82912	.07067
#2	-.00136	.06865	.00189	.82737	.07016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**91.691**	**.00044**	**.0160**	**.00267**
Stddev	.00002	.533	.00019	.0032	.00002
%RSD	35.396	.58108	42.594	19.68	.73928
#1	-.00006	92.068	.00057	.0183	.00268
#2	-.00004	91.314	.00031	.0138	.00265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**.00731**	**30.796**	**39.170**	**.19521**
Stddev	.00005	.00099	.150	.165	.00070
%RSD	1.6648	13.558	.48823	.42108	.35667
#1	.00282	.00801	30.902	39.287	.19570
#2	.00275	.00661	30.689	39.053	.19471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-4-a Acquired: 7/27/2017 12:27:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**67.126**	**.14351**	**.00011**	**44.665**	**.01086**
Stddev	.440	.00082	.00007	.251	.00070
%RSD	.65605	.57138	62.133	.56166	6.4711
#1	67.437	.14409	.00016	44.843	.01136
#2	66.815	.14293	.00006	44.488	.01036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00585**	**1.2368**	**-.00082**	**-.00210**	**7.6904**
Stddev	.00075	.0001	.00120	.00160	.0614
%RSD	12.795	.00716	146.33	76.243	.79787
#1	.00637	1.2368	-.00167	-.00323	7.7338
#2	.00532	1.2369	.00003	-.00097	7.6470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00162**	**.12680**	**.00275**	**.00207**	**.00044**
Stddev	.00011	.00061	.00064	.00207	.00052
%RSD	6.8878	.47970	23.383	100.33	117.93
#1	.00170	.12723	.00229	.00060	.00007
#2	.00154	.12637	.00320	.00353	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121622-b-4-a Acquired: 7/27/2017 12:27:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.07710**
Stddev	.00006
%RSD	.07707
#1	.07706
#2	.07714
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3297.1**	**2339.6**	**16533.**	**3225.5**
Stddev	.0	.2	23.	10.1
%RSD	.00009	.00694	.14121	.31372
#1	3297.1	2339.7	16550.	3218.3
#2	3297.1	2339.5	16517.	3232.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.200%	97.313%	96.408%	103.80%
Range				

Sample Name: 480-121624-a-1-a Acquired: 7/27/2017 12:30:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.05988**	**.00201**	**.10657**	**.02844**
Stddev	.00107	.01792	.00130	.00019	.00014
%RSD	148.85	29.926	64.549	.18173	.47852
#1	-.00148	.04721	.00292	.10671	.02854
#2	.00004	.07256	.00109	.10643	.02834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**539.79**	**.00058**	**.0652**	**.00105**
Stddev	.00007	3.27	.00000	.0176	.00018
%RSD	88.575	.60505	.19702	26.99	17.129
#1	-.00013	542.10	.00059	.0776	.00118
#2	-.00003	537.48	.00058	.0527	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00174**	**.00072**	**3.2053**	**10.545**	**.06219**
Stddev	.00017	.00056	.0022	.021	.00114
%RSD	9.5144	77.715	.06710	.19992	1.8274
#1	.00185	.00033	3.2037	10.530	.06138
#2	.00162	.00112	3.2068	10.560	.06299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121624-a-1-a Acquired: 7/27/2017 12:30:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**162.73**	**1.4495**	**.00216**	**77.930**	**.00572**
Stddev	.38	.0012	.00013	.315	.00021
%RSD	.23498	.07960	6.0596	.40455	3.7196
#1	163.00	1.4503	.00207	77.707	.00587
#2	162.46	1.4487	.00225	78.153	.00557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00261**	F **537.47**	**-.00057**	**-.00794**	**10.241**
Stddev	.00066	.58	.00027	.00633	.083
%RSD	25.405	.10811	47.653	79.705	.81415
#1	.00307	537.88	-.00076	-.00347	10.182
#2	.00214	537.06	-.00038	-.01242	10.300
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**.98526**	**.00224**	**.00182**	**-.00132**
Stddev	.00035	.00186	.00033	.00123	.00038
%RSD	32.785	.18832	14.592	67.616	28.624
#1	-.00082	.98395	.00201	.00095	-.00159
#2	-.00132	.98658	.00248	.00269	-.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121624-a-1-a Acquired: 7/27/2017 12:30:27 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02324**
Stddev	.00014
%RSD	.60093
#1	.02333
#2	.02314
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2972.8**	**2167.9**	**15460.**	**3123.9**
Stddev	5.8	4.5	33.	12.0
%RSD	.19577	.20818	.21500	.38416
#1	2976.9	2171.1	15483.	3132.4
#2	2968.7	2164.7	15436.	3115.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.525%	90.171%	90.147%	100.53%
Range				

Sample Name: 480-121634-d-1-a Acquired: 7/27/2017 12:33:53 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**1.5693**	**.00338**	**.02848**	**.08481**
Stddev	.00089	.0316	.00018	.00037	.00005
%RSD	83.526	2.0151	5.3512	1.2820	.05392
#1	-.00170	1.5470	.00351	.02874	.08478
#2	-.00044	1.5917	.00325	.02822	.08485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**233.00**	**.00032**	**.0142**	**.00222**
Stddev	.00003	1.06	.00003	.0362	.00003
%RSD	14.047	.45326	7.8377	254.0	1.3548
#1	.00027	233.74	.00034	-.0113	.00224
#2	.00022	232.25	.00031	.0398	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00575**	**.01533**	**8.4218**	**12.499**	**-.00595**
Stddev	.00031	.00080	.0479	.083	.00086
%RSD	5.4623	5.2294	.56856	.66076	14.436
#1	.00597	.01476	8.4557	12.557	-.00656
#2	.00553	.01590	8.3880	12.441	-.00535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121634-d-1-a Acquired: 7/27/2017 12:33:53 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.421**	**.75883**	**.00142**	**91.442**	**.00871**
Stddev	.018	.00012	.00019	.478	.00015
%RSD	.14419	.01640	13.186	.52233	1.6993
#1	12.409	.75874	.00129	91.780	.00861
#2	12.434	.75891	.00155	91.105	.00882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01451**	**4.4073**	**.00269**	**-.00094**	**5.0422**
Stddev	.00043	.0049	.00136	.00016	.0597
%RSD	2.9663	.11196	50.561	16.992	1.1845
#1	.01481	4.4108	.00366	-.00105	5.0844
#2	.01421	4.4038	.00173	-.00082	5.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.29087**	**.02279**	**.00192**	**.00433**
Stddev	.00046	.00142	.00055	.00022	.00020
%RSD	63.116	.48948	2.3935	11.276	4.5639
#1	.00107	.29188	.02240	.00207	.00447
#2	.00041	.28987	.02317	.00177	.00419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121634-d-1-a Acquired: 7/27/2017 12:33:53 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.41880**
Stddev	.00019
%RSD	.04651
#1	.41866
#2	.41894
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3238.9**	**2328.1**	**16526.**	**3277.8**
Stddev	7.1	1.6	56.	7.0
%RSD	.21815	.06695	.33967	.21267
#1	3243.9	2329.2	16565.	3272.9
#2	3233.9	2327.0	16486.	3282.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.643%	96.835%	96.363%	105.49%
Range				

Sample Name: 480-121613-d-1-a Acquired: 7/27/2017 12:37:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.10660**	**.10161**	**11.066**	**.24910**
Stddev	.00081	.03099	.00120	.018	.00034
%RSD	131.81	29.069	1.1810	.15974	.13710
#1	-.00119	.12852	.10246	11.053	.24886
#2	-.00004	.08469	.10076	11.078	.24934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**104.56**	**.00048**	**.0123**	**.02867**
Stddev	.00000	.04	.00011	.0023	.00010
%RSD	4.1086	.03856	23.821	18.50	.36276
#1	-.00003	104.53	.00056	.0139	.02874
#2	-.00003	104.59	.00040	.0107	.02859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09493**	**-.00042**	**6.2138**	**465.17**	**.05313**
Stddev	.00004	.00022	.0249	.53	.00178
%RSD	.04071	52.469	.40008	.11488	3.3434
#1	.09490	-.00026	6.1962	464.79	.05187
#2	.09496	-.00057	6.2313	465.55	.05439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-1-a Acquired: 7/27/2017 12:37:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.545**	**.26982**	**.00524**	**1320.0**	**.19925**
Stddev	.043	.00002	.00013	4.7	.00050
%RSD	.05158	.00584	2.5680	.35768	.25148
#1	83.514	.26980	.00534	1316.7	.19960
#2	83.575	.26983	.00515	1323.3	.19889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**17.162**	**.00909**	**.00173**	**11.048**
Stddev	.00128	.018	.00025	.00008	.054
%RSD	30.185	.10323	2.7227	4.7252	.48827
#1	.00514	17.150	.00892	.00179	11.009
#2	.00333	17.175	.00927	.00167	11.086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01402**	**.84029**	**.05291**	**.00123**	**.07674**
Stddev	.00044	.00356	.00017	.00246	.00035
%RSD	3.1186	.42384	.32761	199.47	.45775
#1	.01371	.83777	.05304	.00297	.07699
#2	.01433	.84280	.05279	-.00051	.07650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-1-a Acquired: 7/27/2017 12:37:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04626**
Stddev	.00059
%RSD	1.2749
#1	.04584
#2	.04667
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2711.2**	**2130.6**	**14738.**	**3190.3**
Stddev	3.4	.9	48.	1.2
%RSD	.12463	.04219	.32796	.03737
#1	2708.8	2130.0	14772.	3189.4
#2	2713.6	2131.3	14703.	3191.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.527%	88.620%	85.937%	102.67%
Range				

Sample Name: 480-121613-d-2-a Acquired: 7/27/2017 12:40:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.15872**	**.09774**	**11.996**	**.38159**
Stddev	.00120	.01157	.00476	.028	.00104
%RSD	174.02	7.2917	4.8660	.23158	.27153
#1	.00016	.16690	.09438	11.976	.38232
#2	-.00154	.15053	.10110	12.016	.38085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**115.89**	**.00037**	**.0179**	**.03127**
Stddev	.00006	.52	.00028	.0235	.00004
%RSD	135.55	.44793	76.504	131.2	.12203
#1	.00000	116.25	.00057	.0013	.03125
#2	.00009	115.52	.00017	.0345	.03130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11143**	**.00197**	**9.9389**	**497.13**	**.05730**
Stddev	.00061	.00025	.0556	3.35	.00077
%RSD	.54972	12.736	.55970	.67400	1.3430
#1	.11187	.00179	9.9782	499.50	.05675
#2	.11100	.00215	9.8996	494.76	.05784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-2-a Acquired: 7/27/2017 12:40:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**90.691**	**.28661**	**.00584**	**1445.2**	**.21658**
Stddev	.462	.00134	.00048	9.1	.00002
%RSD	.50974	.46891	8.2954	.63254	.00749
#1	91.018	.28757	.00618	1451.7	.21657
#2	90.364	.28566	.00550	1438.8	.21660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**19.061**	**.01145**	**.00413**	**12.067**
Stddev	.00041	.049	.00095	.00022	.013
%RSD	7.5508	.25684	8.3197	5.2636	.11102
#1	.00570	19.027	.01213	.00397	12.076
#2	.00512	19.096	.01078	.00428	12.058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01931**	**.97682**	**.08772**	**.00039**	**.07789**
Stddev	.00054	.00630	.00068	.00133	.00046
%RSD	2.8122	.64462	.77779	340.09	.58709
#1	.01969	.98128	.08724	-.00055	.07821
#2	.01893	.97237	.08821	.00133	.07756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-2-a Acquired: 7/27/2017 12:40:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.06653
Stddev	.00098
%RSD	1.4672
#1	.06722
#2	.06584
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2666.9	2102.7	14593.	3132.9
Stddev	6.3	1.4	107.	10.3
%RSD	.23528	.06709	.73496	.33034
#1	2662.5	2101.7	14517.	3125.6
#2	2671.4	2103.7	14669.	3140.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.342%	87.459%	85.094%	100.82%
Range				

Sample Name: 480-121613-d-3-a Acquired: 7/27/2017 12:44:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**1.2635**	**.40701**	**9.8127**	**2.2291**
Stddev	.00025	.0240	.00214	.0090	.0072
%RSD	20.576	1.9038	.52642	.09189	.32289
#1	-.00103	1.2465	.40549	9.8191	2.2342
#2	-.00138	1.2805	.40852	9.8064	2.2240
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**309.29**	**.00020**	**.0625**	**.03011**
Stddev	.00001	3.00	.00010	.0228	.00014
%RSD	1.8781	.97014	49.759	36.42	.44864
#1	.00062	311.41	.00027	.0464	.03001
#2	.00060	307.16	.00013	.0786	.03020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.27390**	**.01636**	**105.38**	**426.59**	**.03853**
Stddev	.00040	.00006	.02	1.20	.00065
%RSD	.14687	.38304	.01567	.28066	1.6764
#1	.27361	.01641	105.37	427.43	.03898
#2	.27418	.01632	105.39	425.74	.03807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a Acquired: 7/27/2017 12:44:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**101.19**	**1.0800**	**.00584**	**1205.2**	**.19274**
Stddev	.24	.0010	.00021	2.8	.00030
%RSD	.23780	.09004	3.5335	.23067	.15776
#1	101.36	1.0806	.00598	1207.1	.19253
#2	101.02	1.0793	.00569	1203.2	.19296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02999**	**25.400**	**.01254**	**.00518**	**15.466**
Stddev	.00116	.025	.00218	.00540	.066
%RSD	3.8566	.09954	17.397	104.13	.42766
#1	.02917	25.418	.01099	.00137	15.513
#2	.03081	25.382	.01408	.00900	15.419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09436**	**2.4122**	**.60602**	**-.00186**	**.24789**
Stddev	.00062	.0068	.00035	.00083	.00040
%RSD	.65882	.28375	.05709	44.699	.16084
#1	.09480	2.4170	.60577	-.00127	.24818
#2	.09392	2.4073	.60626	-.00245	.24761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121613-d-3-a Acquired: 7/27/2017 12:44:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.15675**
Stddev	.00058
%RSD	.37107
#1	.15717
#2	.15634
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2641.6**	**2118.2**	**14809.**	**3146.4**
Stddev	3.2	3.0	51.	14.2
%RSD	.12163	.14052	.34363	.45080
#1	2643.8	2120.3	14773.	3136.3
#2	2639.3	2116.1	14845.	3156.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.664%	88.103%	86.354%	101.26%
Range				

Sample Name: 480-121470-o-1-b Acquired: 7/27/2017 12:47:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00242**	**.13582**	**.07106**	**12.964**	**.55034**
Stddev	.00024	.00286	.00110	.014	.00052
%RSD	10.016	2.1021	1.5529	.10644	.09441
#1	-.00225	.13380	.07184	12.955	.55071
#2	-.00259	.13784	.07028	12.974	.54997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**216.37**	**.00068**	**.0371**	**.03967**
Stddev	.00002	.31	.00001	.0141	.00002
%RSD	93.928	.14446	1.5865	38.12	.05470
#1	.00001	216.15	.00069	.0271	.03965
#2	.00004	216.59	.00068	.0471	.03968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10932**	**.02793**	**15.313**	**290.37**	**.04604**
Stddev	.00126	.00004	.012	.32	.00119
%RSD	1.1507	.14738	.07988	.10867	2.5828
#1	.11020	.02796	15.321	290.59	.04688
#2	.10843	.02790	15.304	290.15	.04520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121470-o-1-b Acquired: 7/27/2017 12:47:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**100.94**	**2.6926**	**.00706**	**1167.6**	**.22329**
Stddev	.37	.0104	.00005	.2	.00046
%RSD	.36570	.38755	.74286	.01437	.20651
#1	101.20	2.7000	.00702	1167.7	.22362
#2	100.68	2.6853	.00710	1167.5	.22296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00928**	**51.151**	**.01114**	**.00427**	**25.648**
Stddev	.00100	.060	.00085	.00083	.005
%RSD	10.806	.11779	7.6211	19.553	.02055
#1	.00999	51.109	.01054	.00486	25.644
#2	.00857	51.194	.01174	.00368	25.652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01255**	**1.5564**	**.22147**	**.00073**	**.09803**
Stddev	.00063	.0025	.00019	.00250	.00101
%RSD	5.0160	.16064	.08527	340.55	1.0333
#1	.01299	1.5582	.22134	-.00103	.09875
#2	.01210	1.5547	.22160	.00250	.09731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121470-o-1-b Acquired: 7/27/2017 12:47:36 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.14774**
Stddev	.00246
%RSD	1.6636
#1	.14948
#2	.14601
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2704.9**	**2108.3**	**14812.**	**3154.6**
Stddev	5.4	6.5	74.	21.7
%RSD	.19912	.30879	.50230	.68816
#1	2708.7	2112.9	14760.	3170.0
#2	2701.1	2103.7	14865.	3139.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.357%	87.691%	86.372%	101.52%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:50:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51000**	**24.947**	**.49983**	**.53119**	**.49039**
Stddev	.00367	.094	.00084	.00122	.00077
%RSD	.71900	.37707	.16892	.22876	.15794
#1	.50740	24.880	.49923	.53205	.48985
#2	.51259	25.013	.50043	.53033	.49094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49899**	**24.805**	**.49730**	**.0258**	**.49207**
Stddev	.00156	.084	.00019	.0299	.00033
%RSD	.31288	.33741	.03777	115.9	.06765
#1	.49789	24.746	.49743	.0047	.49230
#2	.50009	24.864	.49717	.0469	.49183
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50839**	**.49028**	**24.263**	**24.543**	**.49346**
Stddev	.00353	.00403	.065	.034	.00193
%RSD	.69514	.82192	.26857	.13654	.39212
#1	.50589	.48743	24.217	24.519	.49209
#2	.51089	.49313	24.309	24.567	.49483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:50:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.815**	**.50875**	**.50766**	**24.560**	**.49749**
Stddev	.108	.00103	.00093	.055	.00096
%RSD	.43651	.20294	.18332	.22440	.19305
#1	24.738	.50802	.50832	24.521	.49681
#2	24.891	.50948	.50700	24.599	.49817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49636**	**24.704**	**.49438**	**.50591**	**24.781**
Stddev	.00136	.020	.00125	.00424	.078
%RSD	.27317	.08040	.25299	.83854	.31307
#1	.49732	24.718	.49527	.50891	24.836
#2	.49540	24.690	.49350	.50291	24.726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50267**	**.48691**	**.49247**	**.49485**	**.51340**
Stddev	.00105	.00067	.00259	.00066	.00520
%RSD	.20965	.13779	.52500	.13261	1.0127
#1	.50341	.48644	.49064	.49531	.50972
#2	.50192	.48739	.49430	.49438	.51707
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 12:50:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50956**
Stddev	.00216
%RSD	.42464
#1	.50803
#2	.51109
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3415.3**	**2376.0**	**16725.**	**3161.5**
Stddev	1.1	1.2	51.	25.4
%RSD	.03347	.04956	.30639	.80342
#1	3414.5	2375.1	16761.	3179.4
#2	3416.2	2376.8	16689.	3143.5

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:54:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.01859**	**.00252**	F **.02126**	**.00002**
Stddev	.00044	.01357	.00014	.00071	.00000
%RSD	1976.2	73.002	5.6110	3.3245	19.952
#1	-.00029	.00899	.00242	.02176	.00002
#2	.00033	.02819	.00262	.02076	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00763**	**-.00009**	**-.0058**	**.00010**
Stddev	.00002	.00395	.00006	.0267	.00004
%RSD	17.418	51.769	67.837	460.7	45.780
#1	.00009	.01042	-.00014	-.0246	.00006
#2	.00011	.00484	-.00005	.0131	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00079**	**-.00190**	**.19238**	**-.00125**
Stddev	.00028	.00040	.00108	.02521	.00020
%RSD	90.558	49.822	56.874	13.104	15.571
#1	.00051	-.00051	-.00113	.17455	-.00139
#2	.00011	-.00107	-.00266	.21021	-.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:54:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00483**	**.00001**	**-.00003**	**.08814**	**.00031**
Stddev	.00658	.00007	.00005	.00361	.00002
%RSD	136.31	621.82	196.74	4.0965	7.4553
#1	-.00017	.00006	-.00006	.09070	.00032
#2	-.00948	-.00004	.00001	.08559	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00844**	**.00242**	**.00199**	**.04518**
Stddev	.00069	.00138	.00094	.00349	.01219
%RSD	177.66	16.389	38.923	175.32	26.971
#1	.00087	.00746	.00175	-.00048	.05380
#2	-.00010	.00942	.00309	.00446	.03656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00010**	**.00107**	**.00264**	**.00004**
Stddev	.00016	.00000	.00036	.00005	.00009
%RSD	52.729	.00156	33.520	1.7203	221.66
#1	.00019	.00010	.00132	.00261	-.00002
#2	.00042	.00010	.00081	.00267	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 12:54:09 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00015
Stddev	.00005
%RSD	33.187
#1	.00019
#2	.00012
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3750.4	2414.0	17160.	3201.1
Stddev	11.0	4.9	136.	5.2
%RSD	.29421	.20199	.79324	.16371
#1	3758.2	2417.4	17257.	3204.8
#2	3742.6	2410.5	17064.	3197.4

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:57:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00568**	**.18117**	**.01556**	F **.03509**	**.00204**
Stddev	.00039	.01553	.00022	.00016	.00002
%RSD	6.8346	8.5717	1.4349	.46260	.81932
#1	.00541	.19216	.01540	.03498	.00205
#2	.00596	.17019	.01572	.03521	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00199**	**.49660**	**.00219**	**.0206**	**.00403**
Stddev	.00009	.00151	.00010	.0054	.00000
%RSD	4.4911	.30360	4.5188	26.34	.04275
#1	.00205	.49767	.00226	.0168	.00403
#2	.00193	.49554	.00212	.0245	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00402**	**.00971**	**.04561**	**.56823**	**.02885**
Stddev	.00013	.00051	.00132	.03038	.00165
%RSD	3.1737	5.2158	2.8926	5.3467	5.7048
#1	.00393	.01007	.04467	.54675	.02768
#2	.00411	.00935	.04654	.58971	.03001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:57:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19521**	**.00307**	**.00995**	**1.0292**	**.00964**
Stddev	.00132	.00008	.00009	.0030	.00011
%RSD	.67847	2.4753	.94357	.28782	1.1723
#1	.19427	.00302	.01001	1.0271	.00956
#2	.19614	.00313	.00988	1.0313	.00972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01046**	**.19731**	**.02076**	**.02249**	**.51403**
Stddev	.00028	.00091	.00154	.00236	.00251
%RSD	2.7071	.45915	7.4156	10.507	.48898
#1	.01066	.19795	.02185	.02081	.51226
#2	.01026	.19667	.01967	.02416	.51581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00893**	**.00487**	**.00552**	**.02149**	**.00489**
Stddev	.00040	.00002	.00025	.00018	.00012
%RSD	4.4317	.31236	4.4437	.81926	2.5075
#1	.00921	.00488	.00534	.02162	.00498
#2	.00865	.00486	.00569	.02137	.00481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 12:57:34 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01108
Stddev	.00045
%RSD	4.0959
#1	.01076
#2	.01140
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3765.1	2428.8	17208.	3187.6
Stddev	5.5	4.5	70.	31.4
%RSD	.14534	.18690	.40508	.98653
#1	3761.2	2425.6	17258.	3209.9
#2	3768.9	2432.0	17159.	3165.4

Sample Name: mb 480-368647/1-a Acquired: 7/27/2017 13:00:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00789**	**.00172**	**.01462**	**.00011**
Stddev	.00015	.00156	.00177	.00020	.00001
%RSD	148.51	19.714	102.77	1.3546	8.2722
#1	.00001	.00899	.00047	.01476	.00011
#2	-.00021	.00679	.00297	.01448	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.05336**	**.00002**	**.0214**	**.00013**
Stddev	.00002	.00387	.00002	.0202	.00005
%RSD	46.379	7.2438	125.43	94.53	36.082
#1	.00003	.05062	.00000	.0357	.00016
#2	.00006	.05609	.00003	.0071	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00006**	**.00382**	**.09232**	**-.00135**
Stddev	.00005	.00061	.00009	.00589	.00059
%RSD	22.241	946.93	2.3750	6.3818	43.353
#1	.00021	.00050	.00389	.09649	-.00094
#2	.00029	-.00037	.00376	.08815	-.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368647/1-a Acquired: 7/27/2017 13:00:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00224**	**.00042**	**-.00023**	**.07668**	**.00008**
Stddev	.00758	.00000	.00020	.00448	.00004
%RSD	338.13	.99027	86.403	5.8428	45.119
#1	.00760	.00042	-.00037	.07984	.00011
#2	-.00312	.00042	-.00009	.07351	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.02521**	**.00091**	**-.00343**	**.02075**
Stddev	.00022	.00068	.00029	.00078	.01024
%RSD	40.449	2.7159	32.313	22.633	49.335
#1	.00039	.02570	.00070	-.00398	.02799
#2	.00070	.02473	.00111	-.00288	.01351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00027**	**.00071**	**.00197**	**-.00013**
Stddev	.00012	.00003	.00026	.00098	.00001
%RSD	26.206	10.805	36.295	49.450	11.529
#1	-.00053	.00029	.00052	.00128	-.00012
#2	-.00037	.00025	.00089	.00266	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368647/1-a Acquired: 7/27/2017 13:00:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00097
Stddev	.00018
%RSD	18.056
#1	.00085
#2	.00110
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3828.8	2457.6	17473.	3225.8
Stddev	9.2	5.8	14.	20.7
%RSD	.24107	.23520	.08201	.64286
#1	3835.3	2461.7	17484.	3240.5
#2	3822.2	2453.5	17463.	3211.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.42%	102.22%	101.89%	103.81%
Range				

Sample Name: lcs 480-368647/2-a Acquired: 7/27/2017 13:04:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04826**	**10.175**	**.19592**	**.21090**	**.19743**
Stddev	.00056	.038	.00184	.00059	.00064
%RSD	1.1517	.37111	.93966	.27914	.32366
#1	.04786	10.202	.19461	.21132	.19788
#2	.04865	10.149	.19722	.21048	.19697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19655**	**9.7752**	**.19927**	**.0239**	**.18758**
Stddev	.00141	.0567	.00017	.0207	.00023
%RSD	.71688	.58038	.08770	86.66	.12498
#1	.19755	9.8153	.19939	.0386	.18775
#2	.19556	9.7351	.19914	.0093	.18742
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20040**	**.19646**	**10.028**	**9.6008**	**.19507**
Stddev	.00237	.00001	.054	.0640	.00035
%RSD	1.1839	.00707	.53579	.66687	.17719
#1	.20207	.19647	10.066	9.6460	.19531
#2	.19872	.19645	9.9901	9.5555	.19482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368647/2-a Acquired: 7/27/2017 13:04:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.109**	**.20644**	**.20100**	**9.5881**	**.19191**
Stddev	.043	.00076	.00064	.0505	.00097
%RSD	.42808	.36577	.31969	.52628	.50343
#1	10.139	.20698	.20146	9.6238	.19123
#2	10.078	.20591	.20055	9.5525	.19259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20115**	**9.7431**	**.19598**	**.19783**	**9.8783**
Stddev	.00137	.0158	.00070	.00298	.0321
%RSD	.67994	.16198	.35560	1.5049	.32510
#1	.20018	9.7542	.19548	.19993	9.9010
#2	.20211	9.7319	.19647	.19572	9.8556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19408**	**.19039**	**.19408**	**.19670**	**.20749**
Stddev	.00104	.00107	.00013	.00196	.00057
%RSD	.53587	.56205	.06606	.99615	.27621
#1	.19335	.19114	.19417	.19532	.20789
#2	.19482	.18963	.19399	.19809	.20708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368647/2-a Acquired: 7/27/2017 13:04:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20648**
Stddev	.00094
%RSD	.45421
#1	.20714
#2	.20581
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3621.3**	**2432.6**	**17126.**	**3232.3**
Stddev	9.8	2.6	96.	3.9
%RSD	.27023	.10657	.56100	.12018
#1	3628.2	2434.4	17058.	3229.5
#2	3614.4	2430.7	17193.	3235.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.873%	101.18%	99.862%	104.02%
Range				

Sample Name: 480-121312-a-4-b Acquired: 7/27/2017 13:07:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00792**	**.00436**	**.07405**	**.01142**
Stddev	.00044	.02419	.00088	.00021	.00001
%RSD	100.34	305.66	20.237	.28539	.07057
#1	-.00075	.02502	.00373	.07420	.01142
#2	-.00013	-.00919	.00498	.07390	.01143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**52.059**	**.00060**	**.0143**	**.00027**
Stddev	.00003	.274	.00014	.0016	.00014
%RSD	69.205	.52601	23.578	11.31	52.160
#1	-.00002	52.253	.00071	.0131	.00017
#2	-.00006	51.866	.00050	.0154	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00034**	**.01041**	**13.007**	**.00121**
Stddev	.00065	.00073	.00134	.005	.00034
%RSD	120.68	212.44	12.828	.03576	27.911
#1	.00008	-.00017	.01136	13.010	.00145
#2	.00100	.00086	.00947	13.004	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-4-b Acquired: 7/27/2017 13:07:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**145.43**	**.00121**	**.00326**	**12.027**	**-.00003**
Stddev	.31	.00006	.00010	.034	.00025
%RSD	.21077	5.3621	3.1615	.28584	786.43
#1	145.22	.00116	.00333	12.051	.00014
#2	145.65	.00125	.00319	12.003	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	F **112.12**	**.00112**	**.11479**	**2.1096**
Stddev	.00063	.04	.00147	.00046	.0221
%RSD	86.709	.03196	131.73	.39763	1.0474
#1	.00117	112.14	.00008	.11511	2.1253
#2	.00028	112.09	.00216	.11446	2.0940
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.22897**	**.00141**	**.00272**	**.00074**
Stddev	.00042	.00171	.00043	.00027	.00005
%RSD	90.620	.74666	30.599	9.8979	6.4285
#1	-.00017	.23018	.00111	.00253	.00071
#2	-.00075	.22776	.00172	.00291	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-4-b Acquired: 7/27/2017 13:07:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00722**
Stddev	.00004
%RSD	.58627
#1	.00719
#2	.00725
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3315.6**	**2300.8**	**16349.**	**3158.4**
Stddev	3.1	2.3	83.	6.5
%RSD	.09500	.10172	.50508	.20603
#1	3313.4	2299.1	16407.	3153.8
#2	3317.8	2302.4	16290.	3163.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.694%	95.697%	95.332%	101.64%
Range				

Sample Name: 480-121312-a-5-b Acquired: 7/27/2017 13:10:57 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.02011**	**.00247**	**.03017**	**.01350**
Stddev	.00101	.00150	.00082	.00023	.00007
%RSD	312.69	7.4586	33.222	.76876	.52466
#1	.00039	.02117	.00189	.03033	.01345
#2	-.00103	.01905	.00306	.03000	.01355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**21.861**	**.00026**	**.0285**	**.00022**
Stddev	.00002	.008	.00018	.0134	.00019
%RSD	28.395	.03556	67.396	46.89	84.708
#1	.00005	21.867	.00038	.0191	.00009
#2	.00008	21.856	.00014	.0380	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00029**	**.18638**	**2.4174**	**.00047**
Stddev	.00031	.00049	.00326	.0885	.00062
%RSD	116.45	171.23	1.7517	3.6617	132.94
#1	.00005	-.00063	.18407	2.4799	.00091
#2	.00048	.00006	.18869	2.3548	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-5-b Acquired: 7/27/2017 13:10:57 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.443**	**.04032**	**.00016**	**3.4726**	**-.00028**
Stddev	.129	.00026	.00002	.0055	.00002
%RSD	.62895	.65688	13.995	.15960	8.2513
#1	20.352	.04014	.00017	3.4765	-.00030
#2	20.534	.04051	.00014	3.4687	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	**20.908**	**-.00058**	**.00497**	**3.1908**
Stddev	.00102	.006	.00074	.00469	.0183
%RSD	90.467	.02792	127.31	94.560	.57378
#1	.00041	20.904	-.00110	.00828	3.2037
#2	.00186	20.912	-.00006	.00165	3.1778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.07778**	**.00167**	**.00218**	**-.00033**
Stddev	.00040	.00010	.00001	.00034	.00011
%RSD	54.329	.12689	.31286	15.675	31.834
#1	-.00045	.07785	.00168	.00242	-.00041
#2	-.00101	.07771	.00167	.00194	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-5-b Acquired: 7/27/2017 13:10:57 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00714
Stddev	.00073
%RSD	10.170
#1	.00766
#2	.00663
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3624.1	2402.4	17103.	3254.3
Stddev	3.7	2.0	144.	7.5
%RSD	.10127	.08286	.83914	.23198
#1	3621.5	2400.9	17204.	3249.0
#2	3626.7	2403.8	17001.	3259.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.946%	99.922%	99.730%	104.73%
Range				

Sample Name: 480-121312-a-6-b Acquired: 7/27/2017 13:14:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.03235**	**.00282**	**.05095**	**.01853**
Stddev	.00013	.01048	.00131	.00076	.00014
%RSD	32.103	32.413	46.390	1.4918	.74586
#1	-.00032	.03976	.00375	.05149	.01863
#2	-.00050	.02493	.00190	.05041	.01844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**58.124**	**.00047**	**.0419**	**.00032**
Stddev	.00003	.177	.00005	.0098	.00002
%RSD	101.65	.30377	9.9048	23.34	6.5093
#1	.00001	58.249	.00043	.0488	.00031
#2	.00005	57.999	.00050	.0350	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00044**	**.10076**	**7.9274**	**-.00011**
Stddev	.00030	.00056	.00460	.0153	.00005
%RSD	141.70	127.39	4.5613	.19356	44.432
#1	.00042	-.00084	.10400	7.9383	-.00015
#2	-.00000	-.00004	.09751	7.9166	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-6-b Acquired: 7/27/2017 13:14:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**114.56**	**.03724**	**.00096**	**14.568**	**.00049**
Stddev	.91	.00025	.00023	.059	.00009
%RSD	.79015	.68095	23.648	.40764	17.687
#1	115.20	.03742	.00080	14.610	.00043
#2	113.92	.03706	.00112	14.526	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	F **115.59**	**.00134**	**.00993**	**2.9170**
Stddev	.00030	.11	.00031	.00132	.0060
%RSD	56.014	.09811	23.207	13.264	.20520
#1	.00075	115.67	.00112	.01086	2.9213
#2	.00033	115.51	.00156	.00899	2.9128
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00118**	**.20194**	**.00226**	**.00161**	**-.00139**
Stddev	.00001	.00106	.00042	.00019	.00025
%RSD	.81363	.52378	18.457	11.800	17.893
#1	-.00118	.20269	.00256	.00174	-.00121
#2	-.00117	.20120	.00197	.00147	-.00156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-6-b Acquired: 7/27/2017 13:14:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00737
Stddev	.00100
%RSD	13.635
#1	.00666
#2	.00808
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3353.3	2310.6	16435.	3182.1
Stddev	3.4	2.8	143.	.9
%RSD	.10040	.12107	.87059	.02779
#1	3350.9	2308.6	16334.	3181.5
#2	3355.6	2312.5	16536.	3182.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.702%	96.104%	95.834%	102.40%
Range				

Sample Name: 480-121312-a-7-b Acquired: 7/27/2017 13:17:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.02902**	**.00441**	**.07919**	**.02901**
Stddev	.00018	.02190	.00084	.00025	.00023
%RSD	19.096	75.447	19.146	.31809	.77891
#1	-.00082	.01354	.00381	.07901	.02917
#2	-.00108	.04451	.00501	.07937	.02885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**113.15**	**.00054**	**.0281**	**.00045**
Stddev	.00013	1.05	.00008	.0037	.00006
%RSD	1989.4	.92448	14.018	13.25	14.020
#1	-.00009	113.89	.00059	.0307	.00050
#2	.00010	112.41	.00049	.0254	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.00100**	**.07534**	**21.567**	**.00282**
Stddev	.00044	.00026	.00121	.213	.00143
%RSD	33.954	26.025	1.5999	.98737	50.742
#1	.00159	.00082	.07619	21.718	.00383
#2	.00098	.00119	.07449	21.417	.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-7-b Acquired: 7/27/2017 13:17:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**297.62**	**.01331**	**.00372**	**31.904**	**.00066**
Stddev	.41	.00013	.00011	.243	.00018
%RSD	.13858	.98566	2.9581	.76013	26.874
#1	297.91	.01322	.00364	32.075	.00053
#2	297.33	.01341	.00380	31.732	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	F **311.18**	**.00017**	**.33491**	**3.5926**
Stddev	.00067	.23	.00060	.00212	.0363
%RSD	172.83	.07480	344.39	.63319	1.0107
#1	-.00009	311.34	-.00025	.33341	3.6183
#2	.00086	311.01	.00059	.33641	3.5669
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.45921**	**.00227**	**.00173**	**-.00153**
Stddev	.00005	.00351	.00017	.00072	.00001
%RSD	29.116	.76467	7.3818	41.843	.50586
#1	.00012	.46170	.00216	.00224	-.00153
#2	.00019	.45673	.00239	.00122	-.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121312-a-7-b Acquired: 7/27/2017 13:17:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00886
Stddev	.00033
%RSD	3.7379
#1	.00862
#2	.00909
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3136.8	2228.9	15958.	3132.2
Stddev	3.5	4.0	15.	30.7
%RSD	.11032	.17800	.09447	.97988
#1	3134.4	2226.1	15968.	3110.5
#2	3139.3	2231.7	15947.	3153.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.911%	92.707%	93.052%	100.80%
Range				

Sample Name: 480-121241-d-1-c Acquired: 7/27/2017 13:21:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00167**	**.01041**	**.00255**	**.23541**	**.03015**
Stddev	.00091	.00926	.00293	.00084	.00002
%RSD	54.417	88.927	114.88	.35670	.05316
#1	-.00232	.01696	.00048	.23600	.03013
#2	-.00103	.00386	.00463	.23482	.03016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**574.28**	**.00025**	**.0391**	**-.00008**
Stddev	.00004	2.23	.00004	.0015	.00004
%RSD	29.619	.38858	15.089	3.734	54.006
#1	-.00010	575.86	.00028	.0380	-.00005
#2	-.00015	572.70	.00023	.0401	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**-.00560**	**.43197**	**3.6416**	**-.01101**
Stddev	.00021	.00012	.00443	.0497	.00023
%RSD	62.302	2.2297	1.0258	1.3633	2.0455
#1	.00048	-.00569	.43511	3.6065	-.01117
#2	.00019	-.00552	.42884	3.6767	-.01085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-1-c Acquired: 7/27/2017 13:21:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.213**	**.01072**	**.00009**	**53.562**	**.00079**
Stddev	.029	.00001	.00012	.546	.00006
%RSD	.06340	.05165	136.99	1.0201	7.2098
#1	46.234	.01071	.00000	53.175	.00075
#2	46.192	.01072	.00018	53.948	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	F **436.61**	**-.00141**	**-.00411**	**6.8835**
Stddev	.00233	.08	.00131	.00498	.0366
%RSD	597.61	.01734	92.846	121.25	.53145
#1	.00126	436.67	-.00048	-.00059	6.8577
#2	-.00204	436.56	-.00233	-.00763	6.9094
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	F **12.877**	**.00179**	**.00333**	**-.00077**
Stddev	.00043	.113	.00014	.00021	.00004
%RSD	109.58	.87665	7.9708	6.1611	4.5474
#1	-.00070	12.957	.00189	.00319	-.00075
#2	-.00009	12.797	.00169	.00348	-.00080
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-1-c Acquired: 7/27/2017 13:21:03 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00116**
Stddev	.00017
%RSD	14.731
#1	.00104
#2	.00128
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3003.6**	**2168.3**	**15676.**	**3104.6**
Stddev	1.4	2.3	7.	10.2
%RSD	.04744	.10709	.04656	.32952
#1	3002.6	2166.7	15671.	3097.4
#2	3004.6	2169.9	15681.	3111.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.348%	90.187%	91.407%	99.913%
Range				

Sample Name: 480-121241-d-2-c Acquired: 7/27/2017 13:24:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.02464**	**.00508**	**.26616**	**.02314**
Stddev	.00008	.01923	.00078	.00000	.00005
%RSD	10.811	78.052	15.412	.00146	.23740
#1	-.00071	.03823	.00453	.26616	.02318
#2	-.00082	.01104	.00564	.26616	.02310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**489.51**	**.00036**	**.0285**	**.00011**
Stddev	.00006	.69	.00003	.0090	.00007
%RSD	486.45	.14170	8.3304	31.71	68.418
#1	-.00006	489.02	.00034	.0221	.00006
#2	.00003	490.00	.00038	.0349	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00439**	**.61812**	**3.4490**	**-.00631**
Stddev	.00025	.00008	.00507	.0024	.00004
%RSD	193.21	1.9194	.82046	.07034	.67768
#1	.00030	-.00445	.62171	3.4507	-.00634
#2	-.00005	-.00433	.61454	3.4473	-.00628
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-2-c Acquired: 7/27/2017 13:24:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.198**	**.03640**	**.00017**	**45.692**	**.00131**
Stddev	.139	.00017	.00017	.123	.00028
%RSD	.32938	.45896	100.92	.26876	21.232
#1	42.296	.03652	.00029	45.779	.00112
#2	42.099	.03628	.00005	45.605	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	F **363.16**	**-.00105**	**-.00204**	**7.4674**
Stddev	.00095	.06	.00049	.00025	.0121
%RSD	55.052	.01599	46.410	12.410	.16137
#1	.00239	363.12	-.00071	-.00186	7.4759
#2	.00105	363.20	-.00140	-.00222	7.4588
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	F **11.893**	**.00132**	**.00252**	**-.00063**
Stddev	.00076	.050	.00027	.00038	.00046
%RSD	86.284	.42340	20.579	15.176	73.211
#1	-.00141	11.929	.00151	.00225	-.00031
#2	-.00034	11.857	.00113	.00280	-.00096
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-2-c Acquired: 7/27/2017 13:24:35 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00031
Stddev	.00015
%RSD	47.612
#1	.00020
#2	.00041
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3063.8	2195.4	15772.	3130.9
Stddev	5.9	2.4	14.	5.8
%RSD	.19161	.11068	.08798	.18374
#1	3068.0	2197.2	15762.	3126.8
#2	3059.7	2193.7	15782.	3134.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.959%	91.316%	91.969%	100.76%
Range				

Sample Name: 480-121241-d-3-c Acquired: 7/27/2017 13:28:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**.01060**	**.00543**	**10.221**	**.00300**
Stddev	.00041	.01708	.00195	.005	.00002
%RSD	36.592	161.14	35.933	.04613	.70090
#1	-.00084	.02268	.00405	10.217	.00298
#2	-.00142	-.00148	.00681	10.224	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**487.12**	**.00047**	**.0487**	**.00008**
Stddev	.00012	2.42	.00019	.0008	.00007
%RSD	1284.4	.49749	40.216	1.673	94.925
#1	-.00009	485.40	.00034	.0493	.00013
#2	.00007	488.83	.00060	.0481	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**-.00439**	**.16592**	**31.604**	**.26086**
Stddev	.00042	.00085	.00289	.013	.00108
%RSD	64.404	19.430	1.7443	.03960	.41302
#1	.00096	-.00379	.16797	31.613	.26010
#2	.00036	-.00500	.16387	31.596	.26162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-3-c Acquired: 7/27/2017 13:28:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**168.83**	**.13281**	**.00034**	**213.16**	**.00014**
Stddev	.98	.00071	.00015	.12	.00028
%RSD	.58030	.53171	44.849	.05560	196.21
#1	168.14	.13231	.00023	213.07	-.00006
#2	169.53	.13331	.00044	213.24	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	F **727.61**	**-.00025**	**-.00155**	**5.1073**
Stddev	.00266	.05	.00083	.00290	.0099
%RSD	140.35	.00743	326.38	186.83	.19393
#1	.00378	727.58	.00033	-.00360	5.1143
#2	.00001	727.65	-.00084	.00050	5.1003
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	F **9.5851**	**.00149**	**.00350**	**-.00158**
Stddev	.00024	.0863	.00071	.00043	.00048
%RSD	70.170	.89995	47.514	12.390	30.563
#1	-.00051	9.5241	.00199	.00381	-.00124
#2	-.00017	9.6461	.00099	.00319	-.00192
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-3-c Acquired: 7/27/2017 13:28:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00138
Stddev	.00022
%RSD	15.921
#1	.00154
#2	.00123
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2902.1	2142.5	15309.	3087.7
Stddev	2.4	3.0	38.	.9
%RSD	.08366	.14190	.24669	.02870
#1	2903.8	2144.6	15336.	3088.3
#2	2900.4	2140.3	15282.	3087.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.632%	89.113%	89.270%	99.368%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 13:31:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51199**	**24.819**	**.49741**	**.51377**	**.49201**
Stddev	.00375	.144	.00429	.00052	.00122
%RSD	.73171	.58005	.86188	.10152	.24866
#1	.51464	24.920	.49438	.51414	.49288
#2	.50934	24.717	.50044	.51340	.49115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49645**	**24.558**	**.49676**	**.0171**	**.49110**
Stddev	.00079	.048	.00055	.0260	.00040
%RSD	.15867	.19566	.11037	152.1	.08068
#1	.49700	24.592	.49638	-.0013	.49138
#2	.49589	24.524	.49715	.0355	.49082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51193**	**.49668**	**23.856**	**24.243**	**.49456**
Stddev	.00259	.00059	.027	.033	.00385
%RSD	.50662	.11857	.11220	.13499	.77886
#1	.51376	.49710	23.875	24.266	.49728
#2	.51010	.49626	23.837	24.219	.49183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 13:31:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.909**	**.51065**	**.50562**	**24.487**	**.49659**
Stddev	.117	.00200	.00025	.054	.00037
%RSD	.47070	.39145	.04912	.22243	.07401
#1	24.992	.51206	.50544	24.525	.49685
#2	24.826	.50924	.50580	24.448	.49633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49587**	**24.713**	**.49499**	**.50131**	**23.880**
Stddev	.00297	.029	.00166	.00061	.074
%RSD	.59865	.11765	.33463	.12228	.31071
#1	.49797	24.692	.49382	.50088	23.933
#2	.49377	24.734	.49616	.50175	23.828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50185**	**.48213**	**.49568**	**.49301**	**.51461**
Stddev	.00083	.00068	.00192	.00122	.00282
%RSD	.16485	.14039	.38766	.24650	.54868
#1	.50244	.48261	.49704	.49387	.51661
#2	.50127	.48165	.49432	.49215	.51262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 13:31:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51229
Stddev	.00246
%RSD	.48110
#1	.51403
#2	.51055
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3404.4	2367.9	16574.	3196.5
Stddev	1.0	2.8	42.	7.0
%RSD	.02968	.11705	.25591	.21930
#1	3403.7	2369.8	16544.	3201.5
#2	3405.1	2365.9	16604.	3191.6

Sample Name: CCB-4130963 Acquired: 7/27/2017 13:34:49 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	**.00801**	**.00150**	**.00903**	**-.00001**
Stddev	.00077	.01681	.00158	.00063	.00004
%RSD	60.340	209.93	105.57	6.9425	458.73
#1	-.00181	-.00388	.00261	.00948	.00002
#2	-.00073	.01990	.00038	.00859	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.01721**	**.00007**	**.0285**	**.00019**
Stddev	.00005	.00053	.00004	.0392	.00011
%RSD	140.12	3.0940	50.771	137.6	56.783
#1	.00000	.01759	.00005	.0562	.00011
#2	.00008	.01683	.00010	.0008	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00023**	**-.00122**	**.07331**	**-.00030**
Stddev	.00023	.00033	.00051	.02882	.00046
%RSD	130.56	142.19	42.254	39.319	154.12
#1	.00034	-.00046	-.00085	.05293	.00003
#2	.00001	.00000	-.00158	.09369	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 13:34:49 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	**.00001**	**-.00002**	**.03424**	**.00043**
Stddev	.00324	.00009	.00009	.00495	.00023
%RSD	232.34	988.20	402.40	14.454	53.746
#1	.00090	.00007	.00004	.03074	.00027
#2	-.00368	-.00005	-.00009	.03774	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.04692**	**-.00006**	**-.00107**	**.01665**
Stddev	.00060	.00025	.00229	.00044	.01161
%RSD	98.797	.52282	3561.3	41.286	69.738
#1	.00018	.04710	-.00168	-.00076	.00844
#2	.00103	.04675	.00155	-.00138	.02486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00032**	**.00017**	**.00232**	**-.00088**
Stddev	.00040	.00007	.00020	.00113	.00037
%RSD	121.99	22.284	121.51	48.859	42.524
#1	-.00004	.00027	.00002	.00312	-.00115
#2	-.00061	.00037	.00031	.00152	-.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 13:34:49 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00013**
Stddev	.00015
%RSD	116.23
#1	-.00002
#2	-.00023
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3760.5**	**2412.8**	**17151.**	**3179.3**
Stddev	8.8	5.2	67.	21.7
%RSD	.23306	.21592	.38856	.68239
#1	3754.3	2409.1	17104.	3194.6
#2	3766.7	2416.4	17198.	3164.0

Sample Name: CCVL-4147888 Acquired: 7/27/2017 13:38:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00586**	**.17719**	**.01623**	**.02594**	**.00204**
Stddev	.00013	.01916	.00116	.00057	.00002
%RSD	2.2549	10.812	7.1747	2.1950	.75763
#1	.00577	.19074	.01706	.02635	.00205
#2	.00595	.16365	.01541	.02554	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00216**	**.50221**	**.00208**	**.0063**	**.00401**
Stddev	.00002	.00593	.00004	.0047	.00007
%RSD	1.0287	1.1801	1.6892	74.34	1.8684
#1	.00214	.49802	.00211	.0096	.00407
#2	.00217	.50640	.00206	.0030	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00418**	**.00952**	**.04783**	**.52610**	**.02912**
Stddev	.00084	.00065	.00194	.01048	.00127
%RSD	20.031	6.8157	4.0489	1.9911	4.3557
#1	.00477	.00997	.04920	.51869	.02822
#2	.00359	.00906	.04646	.53351	.03002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 13:38:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19850**	**.00297**	**.00998**	**.99936**	**.00983**
Stddev	.00245	.00001	.00001	.01176	.00008
%RSD	1.2328	.23755	.06699	1.1772	.83377
#1	.20023	.00296	.00999	.99104	.00989
#2	.19677	.00297	.00998	1.0077	.00977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00973**	**.22354**	**.01953**	**.02135**	**.50391**
Stddev	.00039	.00045	.00148	.00051	.02269
%RSD	4.0419	.20260	7.5675	2.3962	4.5030
#1	.00945	.22386	.01849	.02099	.48787
#2	.01001	.22322	.02058	.02171	.51996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00876**	**.00499**	**.00517**	**.02196**	**.00520**
Stddev	.00017	.00005	.00046	.00077	.00019
%RSD	1.9263	1.0525	8.9262	3.5289	3.7292
#1	.00888	.00502	.00485	.02251	.00506
#2	.00864	.00495	.00550	.02141	.00533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 13:38:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01100
Stddev	.00035
%RSD	3.1813
#1	.01075
#2	.01125
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3756.2	2424.5	17159.	3158.6
Stddev	2.5	3.4	32.	13.5
%RSD	.06693	.14115	.18569	.42758
#1	3754.5	2422.1	17136.	3168.2
#2	3758.0	2427.0	17181.	3149.1

Sample Name: 480-121241-d-4-g Acquired: 7/27/2017 13:41:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.02346**	**.00366**	**3.3891**	**.00391**
Stddev	.00001	.00192	.00473	.0016	.00003
%RSD	2.0694	8.1962	129.05	.04797	.88441
#1	-.00045	.02482	.00032	3.3902	.00388
#2	-.00043	.02210	.00701	3.3879	.00393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**554.40**	**.00025**	**.0497**	**-.00007**
Stddev	.00004	.83	.00005	.0056	.00005
%RSD	63.556	.14975	21.600	11.23	71.393
#1	-.00010	554.99	.00021	.0536	-.00010
#2	-.00004	553.81	.00029	.0457	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**-.00496**	**.51883**	**24.388**	**.04416**
Stddev	.00031	.00126	.00070	.083	.00067
%RSD	45.526	25.402	.13435	.34192	1.5128
#1	.00089	-.00585	.51932	24.447	.04464
#2	.00046	-.00407	.51834	24.329	.04369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-g Acquired: 7/27/2017 13:41:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.592**	**.02594**	**-.00011**	**35.669**	**.00039**
Stddev	.206	.00013	.00017	.094	.00021
%RSD	.31923	.50429	152.84	.26490	54.401
#1	64.447	.02585	-.00023	35.736	.00054
#2	64.738	.02603	.00001	35.602	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00113**	F **500.09**	**.00057**	**-.00472**	**7.2529**
Stddev	.00005	.04	.00191	.00589	.0257
%RSD	4.6137	.00737	336.23	124.82	.35435
#1	.00110	500.11	-.00078	-.00055	7.2710
#2	.00117	500.06	.00192	-.00888	7.2347
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	F **10.926**	**.00115**	**.00241**	**-.00114**
Stddev	.00041	.001	.00031	.00044	.00071
%RSD	32.718	.01338	26.723	18.255	62.280
#1	-.00097	10.927	.00136	.00272	-.00164
#2	-.00155	10.925	.00093	.00210	-.00064
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-4-g Acquired: 7/27/2017 13:41:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00095
Stddev	.00013
%RSD	14.021
#1	.00105
#2	.00086
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3015.3	2176.8	15590.	3154.6
Stddev	12.2	7.7	46.	14.9
%RSD	.40604	.35436	.29374	.47099
#1	3024.0	2182.3	15623.	3144.1
#2	3006.6	2171.3	15558.	3165.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.661%	90.541%	90.909%	101.52%
Range				

Sample Name: 480-121241-d-4-gSD@5 Acquired: 7/27/2017 13:45:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.01690**	**.00138**	**.59708**	**.00095**
Stddev	.00001	.01703	.00047	.00446	.00004
%RSD	1.8394	100.74	34.342	.74677	3.7233
#1	-.00068	.02895	.00104	.60023	.00093
#2	-.00069	.00486	.00171	.59393	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**102.81**	**.00011**	**.0368**	**.00007**
Stddev	.00000	.88	.00015	.0008	.00015
%RSD	6.1956	.85809	138.14	2.125	201.74
#1	-.00005	103.43	.00000	.0362	.00018
#2	-.00005	102.19	.00021	.0373	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**-.00086**	**.09388**	**4.4419**	**.00542**
Stddev	.00030	.00102	.00043	.0856	.00010
%RSD	86.974	118.07	.45533	1.9268	1.9109
#1	.00056	-.00158	.09418	4.5024	.00535
#2	.00013	-.00014	.09357	4.3814	.00550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-gSD@5 Acquired: 7/27/2017 13:45:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.585**	**.00476**	**-.00017**	**6.3376**	**.00060**
Stddev	.015	.00003	.00002	.0546	.00072
%RSD	.12858	.72991	11.855	.86076	118.44
#1	11.574	.00473	-.00016	6.3762	.00111
#2	11.595	.00478	-.00018	6.2990	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**83.377**	**.00016**	**.00118**	**1.2871**
Stddev	.00101	.636	.00029	.00136	.0032
%RSD	295.28	.76253	181.69	114.94	.25227
#1	-.00037	83.827	-.00005	.00214	1.2894
#2	.00106	82.928	.00037	.00022	1.2848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**2.0153**	**-.00049**	**.00302**	**-.00009**
Stddev	.00062	.0184	.00056	.00077	.00059
%RSD	1155.4	.91120	115.50	25.522	637.42
#1	-.00049	2.0283	-.00088	.00247	.00033
#2	.00039	2.0023	-.00009	.00356	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-gSD@5 Acquired: 7/27/2017 13:45:10 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00046
Stddev	.00061
%RSD	133.42
#1	.00003
#2	.00089
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3438.1	2319.5	16456.	3145.8
Stddev	.9	2.7	65.	7.8
%RSD	.02570	.11610	.39762	.24679
#1	3437.5	2321.4	16503.	3140.4
#2	3438.7	2317.6	16410.	3151.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.972%	96.478%	95.959%	101.24%
Range				

Sample Name: 480-121241-d-4-g PDS Acquired: 7/27/2017 13:48:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05055	9.9663	.20835	3.5782	.19904
Stddev	.00074	.1014	.00126	.0020	.00137
%RSD	1.4570	1.0176	.60642	.05593	.68809
#1	.05108	10.038	.20746	3.5796	.20001
#2	.05003	9.8946	.20924	3.5768	.19807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19461	566.65	.20820	.0372	.19235
Stddev	.00014	.55	.00013	.0124	.00033
%RSD	.07350	.09654	.06228	33.42	.17140
#1	.19471	567.04	.20830	.0284	.19259
#2	.19451	566.26	.20811	.0459	.19212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19607	.19525	10.229	34.794	.24996
Stddev	.00006	.00262	.015	.046	.00059
%RSD	.03132	1.3419	.14305	.13107	.23584
#1	.19611	.19710	10.239	34.761	.24954
#2	.19602	.19340	10.219	34.826	.25037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-g PDS Acquired: 7/27/2017 13:48:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**74.393**	**.22156**	**.19611**	**46.204**	**.19438**
Stddev	.474	.00200	.00044	.032	.00022
%RSD	.63724	.90299	.22682	.06903	.11515
#1	74.728	.22297	.19580	46.226	.19423
#2	74.058	.22014	.19643	46.181	.19454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20504**	F **505.73**	**.21040**	**.21719**	**17.125**
Stddev	.00023	.03	.00032	.00050	.004
%RSD	.11010	.00505	.14984	.23220	.02319
#1	.20488	505.75	.21018	.21755	17.128
#2	.20520	505.71	.21062	.21683	17.122
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20208**	F **11.195**	**.19446**	**.19163**	**.20411**
Stddev	.00052	.076	.00049	.00022	.00201
%RSD	.25750	.67957	.25397	.11411	.98672
#1	.20245	11.249	.19481	.19148	.20553
#2	.20172	11.141	.19411	.19178	.20268
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-4-g PDS Acquired: 7/27/2017 13:48:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.19487
Stddev	.00207
%RSD	1.0602
#1	.19633
#2	.19341
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2982.9	2181.9	15615.	3107.7
Stddev	3.0	.9	91.	17.7
%RSD	.10001	.04023	.58365	.56907
#1	2985.0	2182.5	15551.	3095.2
#2	2980.8	2181.3	15679.	3120.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.795%	90.752%	91.053%	100.01%
Range				

Sample Name: 480-121241-d-4-h ms Acquired: 7/27/2017 13:51:56 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05003**	**10.261**	**.21045**	**3.7590**	**.19574**
Stddev	.00004	.001	.00125	.0018	.00050
%RSD	.07570	.00499	.59353	.04812	.25699
#1	.05000	10.260	.20957	3.7577	.19538
#2	.05006	10.261	.21134	3.7602	.19609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19255**	**591.13**	**.20729**	**.0405**	**.19202**
Stddev	.00054	.82	.00017	.0252	.00002
%RSD	.27885	.13838	.08018	62.11	.00921
#1	.19217	591.71	.20741	.0583	.19203
#2	.19293	590.56	.20718	.0227	.19200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19217**	**.19271**	**10.136**	**35.668**	**.24942**
Stddev	.00033	.00013	.001	.064	.00084
%RSD	.16961	.06837	.01374	.17825	.33703
#1	.19194	.19262	10.137	35.713	.24882
#2	.19240	.19280	10.135	35.623	.25001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-h ms Acquired: 7/27/2017 13:51:56 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**77.357**	**.22294**	**.19976**	**47.646**	**.19584**
Stddev	.119	.00059	.00055	.005	.00106
%RSD	.15340	.26404	.27603	.00996	.54197
#1	77.273	.22252	.20015	47.643	.19509
#2	77.441	.22335	.19937	47.650	.19659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20282**	F **528.35**	**.20256**	**.20897**	**17.609**
Stddev	.00002	.76	.00116	.00205	.018
%RSD	.01220	.14420	.57476	.98232	.10476
#1	.20283	528.89	.20339	.21042	17.622
#2	.20280	527.82	.20174	.20752	17.596
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20232**	F **11.679**	**.19220**	**.18939**	**.20539**
Stddev	.00046	.138	.00014	.00152	.00084
%RSD	.22926	1.1842	.07471	.80443	.40903
#1	.20199	11.777	.19210	.18831	.20598
#2	.20264	11.582	.19230	.19047	.20480
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-4-h ms Acquired: 7/27/2017 13:51:56 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.19308
Stddev	.00014
%RSD	.07068
#1	.19317
#2	.19298
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2960.0	2167.6	15631.	3106.8
Stddev	2.7	2.0	104.	10.4
%RSD	.09010	.09066	.66385	.33625
#1	2961.9	2169.0	15705.	3099.4
#2	2958.1	2166.2	15558.	3114.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.181%	90.159%	91.148%	99.981%
Range				

Sample Name: 480-121241-d-4-i msd Acquired: 7/27/2017 13:55:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04981**	**10.046**	**.20834**	**3.7936**	**.19278**
Stddev	.00054	.018	.00109	.0027	.00064
%RSD	1.0751	.17766	.52411	.07131	.33335
#1	.04943	10.058	.20911	3.7955	.19233
#2	.05019	10.033	.20756	3.7917	.19324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19034**	**564.96**	**.20441**	**.0427**	**.18927**
Stddev	.00131	2.25	.00003	.0155	.00033
%RSD	.68649	.39867	.01415	36.22	.17216
#1	.18942	563.36	.20443	.0318	.18950
#2	.19126	566.55	.20439	.0536	.18904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19019**	**.19057**	**9.9988**	**35.390**	**.24700**
Stddev	.00003	.00187	.0804	.280	.00037
%RSD	.01321	.98301	.80407	.79251	.14986
#1	.19017	.18924	9.9419	35.191	.24674
#2	.19020	.19189	10.056	35.588	.24726
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-4-i msd Acquired: 7/27/2017 13:55:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**75.530**	**.21863**	**.19753**	**47.356**	**.19216**
Stddev	.219	.00036	.00027	.187	.00018
%RSD	.28988	.16588	.13641	.39566	.09587
#1	75.375	.21837	.19734	47.224	.19229
#2	75.685	.21888	.19772	47.489	.19203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20092**	F **510.21**	**.19893**	**.20998**	**17.086**
Stddev	.00107	.19	.00090	.00012	.001
%RSD	.53170	.03654	.45083	.05725	.00698
#1	.20017	510.34	.19956	.21006	17.087
#2	.20168	510.08	.19829	.20989	17.085
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19967**	F **11.170**	**.19036**	**.18764**	**.20138**
Stddev	.00123	.035	.00125	.00230	.00095
%RSD	.61572	.31566	.65552	1.2241	.46980
#1	.20054	11.145	.18948	.18927	.20205
#2	.19880	11.195	.19124	.18602	.20071
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-4-i msd Acquired: 7/27/2017 13:55:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.18974**
Stddev	.00157
%RSD	.82907
#1	.18862
#2	.19085
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2967.6**	**2168.4**	**15635.**	**3118.2**
Stddev	4.1	3.9	9.	13.3
%RSD	.13745	.18199	.05707	.42602
#1	2964.7	2165.6	15629.	3127.6
#2	2970.5	2171.2	15641.	3108.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.385%	90.191%	91.170%	100.35%
Range				

Sample Name: 480-121241-d-5-c Acquired: 7/27/2017 13:58:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.02729**	**.00326**	**.20522**	**.04038**
Stddev	.00013	.00385	.00041	.00030	.00002
%RSD	19.965	14.091	12.495	.14376	.04382
#1	-.00056	.02457	.00355	.20543	.04040
#2	-.00074	.03001	.00298	.20501	.04037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**346.75**	**.00050**	**.0310**	**.00002**
Stddev	.00006	1.41	.00017	.0461	.00024
%RSD	283.96	.40791	33.178	148.7	1144.9
#1	-.00002	347.75	.00062	.0636	.00019
#2	.00007	345.75	.00038	-.0016	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00099**	**-.00363**	**1.1243**	**3.0490**	**-.00144**
Stddev	.00012	.00103	.0082	.0311	.00005
%RSD	11.734	28.238	.72810	1.0213	3.6042
#1	.00091	-.00291	1.1185	3.0710	-.00148
#2	.00107	-.00436	1.1300	3.0270	-.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-5-c Acquired: 7/27/2017 13:58:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.299**	**.00897**	**.00018**	**29.257**	**.00108**
Stddev	.039	.00001	.00006	.040	.00053
%RSD	.09745	.11784	34.691	.13580	49.566
#1	40.327	.00896	.00023	29.285	.00070
#2	40.272	.00898	.00014	29.229	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00253**	F **226.49**	**-.00030**	**-.00154**	**7.5057**
Stddev	.00031	.23	.00170	.00070	.0094
%RSD	12.312	.10347	574.25	45.488	.12571
#1	.00231	226.66	.00090	-.00104	7.5124
#2	.00275	226.32	-.00150	-.00203	7.4991
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	F **15.303**	**.00130**	**.00200**	**-.00055**
Stddev	.00042	.147	.00004	.00007	.00080
%RSD	486.99	.95837	2.9383	3.2610	145.42
#1	-.00038	15.200	.00133	.00204	.00002
#2	.00021	15.407	.00128	.00195	-.00112
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-5-c Acquired: 7/27/2017 13:58:45 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00097
Stddev	.00134
%RSD	137.41
#1	.00192
#2	.00003
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3145.1	2224.0	15933.	3151.3
Stddev	2.1	2.3	45.	.5
%RSD	.06836	.10215	.28236	.01742
#1	3146.6	2225.6	15965.	3151.7
#2	3143.6	2222.3	15901.	3150.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.134%	92.502%	92.908%	101.41%
Range				

Sample Name: 480-121241-d-6-c Acquired: 7/27/2017 14:02:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**.06610**	**.00490**	**1.1058**	**.01938**
Stddev	.00085	.00445	.00216	.0010	.00009
%RSD	79.410	6.7308	44.111	.08742	.48049
#1	-.00168	.06925	.00643	1.1051	.01931
#2	-.00047	.06295	.00337	1.1064	.01944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**534.61**	**.00029**	**.0533**	**.00004**
Stddev	.00005	.63	.00015	.0015	.00001
%RSD	59.506	.11730	52.490	2.841	22.556
#1	-.00005	535.05	.00039	.0523	.00003
#2	-.00013	534.16	.00018	.0544	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00142**	**-.00510**	**5.3494**	**6.7220**	**.02903**
Stddev	.00020	.00070	.0066	.0129	.00128
%RSD	14.078	13.725	.12430	.19217	4.3942
#1	.00128	-.00559	5.3447	6.7129	.02813
#2	.00156	-.00460	5.3541	6.7312	.02993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-6-c Acquired: 7/27/2017 14:02:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.825**	**.13761**	**-.00002**	**39.835**	**.00044**
Stddev	.274	.00053	.00007	.045	.00013
%RSD	.39808	.38598	303.48	.11273	29.066
#1	68.631	.13723	-.00007	39.803	.00053
#2	69.019	.13798	.00003	39.867	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00220**	F **494.51**	**-.00101**	**-.00115**	**6.0067**
Stddev	.00022	.28	.00048	.00077	.0096
%RSD	10.061	.05730	47.523	67.244	.15929
#1	-.00204	494.71	-.00067	-.00060	6.0135
#2	-.00236	494.31	-.00135	-.00169	5.9999
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**8.1678**	**.00156**	**.00211**	**-.00083**
Stddev	.00030	.0641	.00026	.00096	.00010
%RSD	85.112	.78443	16.836	45.456	12.186
#1	-.00014	8.1225	.00138	.00143	-.00076
#2	-.00057	8.2131	.00175	.00279	-.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-6-c Acquired: 7/27/2017 14:02:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00215
Stddev	.00089
%RSD	41.603
#1	.00152
#2	.00278
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3024.0	2176.8	15608.	3130.8
Stddev	6.2	1.7	50.	16.1
%RSD	.20651	.07905	.32282	.51525
#1	3019.6	2175.6	15643.	3142.2
#2	3028.4	2178.0	15572.	3119.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.893%	90.542%	91.012%	100.76%
Range				

Sample Name: 480-121241-d-7-c Acquired: 7/27/2017 14:05:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.02430**	**.00602**	**.29679**	**.02338**
Stddev	.00060	.03167	.00207	.00008	.00007
%RSD	84.449	130.31	34.461	.02731	.28348
#1	-.00028	.04670	.00455	.29673	.02333
#2	-.00113	.00191	.00749	.29685	.02343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**359.55**	**.00022**	**.0406**	**.00002**
Stddev	.00010	2.59	.00008	.0237	.00018
%RSD	250.38	.71906	34.567	58.35	977.33
#1	.00003	357.72	.00028	.0238	.00014
#2	-.00011	361.38	.00017	.0573	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**-.00354**	**2.2083**	**3.3736**	**.00174**
Stddev	.00007	.00004	.0208	.0184	.00064
%RSD	9.2419	1.1639	.94264	.54497	36.567
#1	.00071	-.00357	2.2230	3.3866	.00220
#2	.00081	-.00351	2.1936	3.3606	.00129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121241-d-7-c Acquired: 7/27/2017 14:05:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.576**	**.02599**	**.00259**	**15.242**	**.00010**
Stddev	.043	.00003	.00008	.011	.00056
%RSD	.11356	.12483	3.2606	.07321	542.90
#1	37.606	.02601	.00265	15.234	-.00029
#2	37.546	.02596	.00253	15.250	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	F **280.31**	**.00033**	**-.00047**	**7.6250**
Stddev	.00049	.46	.00051	.00125	.0433
%RSD	23.024	.16536	156.71	269.03	.56826
#1	.00249	279.98	.00069	.00042	7.6557
#2	.00179	280.63	-.00004	-.00135	7.5944
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	F **17.810**	**.00192**	**.00281**	**-.00011**
Stddev	.00026	.046	.00040	.00163	.00004
%RSD	106.06	.25719	20.977	57.948	34.260
#1	-.00043	17.842	.00220	.00396	-.00009
#2	-.00006	17.777	.00163	.00166	-.00014
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-121241-d-7-c Acquired: 7/27/2017 14:05:49 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00230**
Stddev	.00054
%RSD	23.439
#1	.00192
#2	.00268
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3156.2**	**2226.7**	**15945.**	**3166.3**
Stddev	1.6	3.9	24.	7.1
%RSD	.05166	.17733	.15270	.22579
#1	3157.3	2229.5	15928.	3171.3
#2	3155.0	2223.9	15962.	3161.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.430%	92.615%	92.979%	101.90%
Range				

Sample Name: 480-121297-b-1-c Acquired: 7/27/2017 14:09:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.05433**	**.02784**	**.08430**	**.08138**
Stddev	.00064	.01249	.00029	.00080	.00003
%RSD	941.16	22.986	1.0309	.94960	.04278
#1	.00038	.04550	.02764	.08487	.08135
#2	-.00052	.06316	.02804	.08374	.08140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**134.48**	**.00036**	**.0448**	**.00059**
Stddev	.00006	.06	.00021	.0103	.00020
%RSD	491.91	.04129	57.673	22.96	33.743
#1	.00003	134.44	.00051	.0375	.00073
#2	-.00006	134.52	.00022	.0521	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**-.00071**	**3.4793**	**2.2290**	**.01893**
Stddev	.00044	.00025	.0133	.0076	.00201
%RSD	85.718	35.733	.38192	.34049	10.637
#1	.00083	-.00089	3.4699	2.2237	.01750
#2	.00020	-.00053	3.4887	2.2344	.02035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121297-b-1-c Acquired: 7/27/2017 14:09:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.619**	**.06145**	**.00326**	**15.704**	**.00122**
Stddev	.139	.00020	.00003	.018	.00029
%RSD	.21536	.32987	.94016	.11299	23.607
#1	64.521	.06131	.00328	15.717	.00143
#2	64.718	.06160	.00324	15.692	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00236**	**21.399**	**.00023**	**-.00466**	**11.127**
Stddev	.00001	.065	.00049	.00250	.011
%RSD	.29908	.30545	210.46	53.742	.09974
#1	.00236	21.445	-.00011	-.00289	11.119
#2	.00237	21.353	.00058	-.00643	11.135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.50824**	**.00166**	**.00343**	**-.00065**
Stddev	.00010	.00136	.00019	.00000	.00047
%RSD	28.338	.26668	11.213	.11116	72.446
#1	-.00029	.50920	.00153	.00343	-.00032
#2	-.00044	.50729	.00180	.00343	-.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121297-b-1-c Acquired: 7/27/2017 14:09:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00400**
Stddev	.00056
%RSD	14.073
#1	.00360
#2	.00440
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3317.2**	**2304.2**	**16439.**	**3207.4**
Stddev	10.5	4.3	32.	9.3
%RSD	.31603	.18603	.19165	.28922
#1	3324.6	2307.3	16461.	3200.8
#2	3309.8	2301.2	16417.	3214.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.737%	95.841%	95.859%	103.22%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:12:41 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50480**	**24.832**	**.49901**	**.50557**	**.49219**
Stddev	.00610	.007	.00079	.00055	.00147
%RSD	1.2087	.02723	.15798	.10933	.29958
#1	.50911	24.837	.49957	.50596	.49323
#2	.50048	24.827	.49846	.50518	.49115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49628**	**24.565**	**.49746**	**.0101**	**.49224**
Stddev	.00031	.011	.00036	.0202	.00007
%RSD	.06170	.04322	.07153	199.1	.01517
#1	.49606	24.557	.49771	-.0041	.49218
#2	.49650	24.572	.49721	.0244	.49229
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50956**	**.49543**	**23.840**	**24.347**	**.49589**
Stddev	.00448	.00171	.029	.015	.00124
%RSD	.87923	.34460	.12032	.06123	.25070
#1	.51273	.49664	23.861	24.337	.49501
#2	.50639	.49422	23.820	24.358	.49677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:12:41 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.880**	**.51033**	**.50547**	**24.607**	**.49800**
Stddev	.142	.00274	.00013	.003	.00008
%RSD	.57206	.53631	.02612	.01184	.01665
#1	24.981	.51227	.50556	24.605	.49794
#2	24.779	.50840	.50538	24.609	.49806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49577**	**24.691**	**.49483**	**.49989**	**23.880**
Stddev	.00214	.009	.00003	.00420	.003
%RSD	.43074	.03532	.00620	.84101	.01385
#1	.49728	24.697	.49485	.50287	23.878
#2	.49426	24.685	.49481	.49692	23.883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50328**	**.48315**	**.49777**	**.49646**	**.51056**
Stddev	.00062	.00119	.00325	.00383	.00324
%RSD	.12333	.24665	.65299	.77154	.63378
#1	.50372	.48230	.50007	.49375	.51285
#2	.50284	.48399	.49547	.49917	.50827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:12:41 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51005**
Stddev	.00487
%RSD	.95448
#1	.51349
#2	.50661
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3400.9**	**2367.9**	**16687.**	**3188.2**
Stddev	9.3	7.7	68.	6.6
%RSD	.27235	.32452	.40648	.20808
#1	3394.3	2362.5	16640.	3183.5
#2	3407.4	2373.3	16735.	3192.9

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:15:51 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.00822**	**.00187**	**.00406**	**.00005**
Stddev	.00057	.03527	.00064	.00014	.00001
%RSD	170.41	429.25	34.158	3.3977	18.130
#1	-.00073	.01673	.00232	.00416	.00004
#2	.00007	-.03316	.00142	.00396	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.01391**	**.00010**	**.0157**	**.00012**
Stddev	.00012	.00278	.00005	.0003	.00002
%RSD	170.32	19.976	54.771	1.666	15.053
#1	.00016	.01195	.00006	.0159	.00013
#2	-.00001	.01588	.00013	.0155	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00049**	**.00070**	**.06814**	**-.00154**
Stddev	.00028	.00130	.00157	.01582	.00159
%RSD	131.91	263.79	223.50	23.210	103.34
#1	.00041	.00043	-.00041	.07933	-.00267
#2	.00001	-.00141	.00181	.05696	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:15:51 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00359**	**.00011**	**.00003**	**.02853**	**.00017**
Stddev	.00026	.00000	.00007	.00202	.00008
%RSD	7.2650	.72416	201.93	7.0980	46.125
#1	.00378	.00011	.00008	.02996	.00012
#2	.00341	.00011	-.00001	.02709	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	**.04770**	**.00076**	**-.00155**	**.01854**
Stddev	.00021	.00872	.00186	.00039	.01215
%RSD	25.314	18.284	245.05	25.288	65.529
#1	.00099	.04153	-.00056	-.00183	.02713
#2	.00069	.05387	.00207	-.00127	.00995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00040**	**.00021**	**.00220**	**-.00029**
Stddev	.00007	.00006	.00002	.00057	.00055
%RSD	84.888	16.155	8.7632	26.130	187.82
#1	-.00014	.00044	.00020	.00260	.00010
#2	-.00003	.00035	.00022	.00179	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:15:51 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00024**
Stddev	.00009
%RSD	35.948
#1	-.00018
#2	-.00030
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3737.0**	**2401.7**	**16941.**	**3153.0**
Stddev	1.1	.4	87.	12.2
%RSD	.02977	.01873	.51442	.38651
#1	3737.8	2401.4	17003.	3144.3
#2	3736.2	2402.0	16880.	3161.6

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:19:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00541**	**.21768**	**.01616**	**.02316**	**.00205**
Stddev	.00100	.01203	.00092	.00026	.00002
%RSD	18.547	5.5279	5.6833	1.1143	.89935
#1	.00470	.22619	.01681	.02335	.00203
#2	.00612	.20917	.01551	.02298	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.50861**	**.00212**	**.0137**	**.00397**
Stddev	.00009	.00288	.00001	.0129	.00000
%RSD	4.1013	.56656	.46512	93.92	.08095
#1	.00217	.50657	.00212	.0046	.00397
#2	.00204	.51065	.00213	.0229	.00398
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00471**	**.00937**	**.04758**	**.46475**	**.02906**
Stddev	.00030	.00009	.00073	.00612	.00085
%RSD	6.3134	.98346	1.5295	1.3166	2.9155
#1	.00450	.00931	.04707	.46042	.02966
#2	.00492	.00944	.04810	.46907	.02846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:19:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19565**	**.00310**	**.01001**	**.98951**	**.00998**
Stddev	.00288	.00005	.00014	.00453	.00025
%RSD	1.4709	1.4756	1.4120	.45763	2.4875
#1	.19361	.00307	.01011	.99271	.00980
#2	.19768	.00313	.00991	.98631	.01015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01054**	**.22068**	**.01926**	**.02420**	**.50743**
Stddev	.00003	.00225	.00017	.00238	.02380
%RSD	.31712	1.0199	.88421	9.8343	4.6912
#1	.01052	.22227	.01938	.02589	.49059
#2	.01056	.21909	.01914	.02252	.52426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00910**	**.00500**	**.00512**	**.02208**	**.00490**
Stddev	.00035	.00014	.00022	.00164	.00011
%RSD	3.8383	2.8737	4.3527	7.4455	2.1831
#1	.00885	.00490	.00496	.02324	.00498
#2	.00934	.00510	.00528	.02091	.00483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:19:15 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01085
Stddev	.00047
%RSD	4.2976
#1	.01118
#2	.01052
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3760.5	2425.4	17112.	3185.8
Stddev	2.9	5.1	18.	10.0
%RSD	.07604	.21064	.10435	.31502
#1	3758.4	2421.8	17099.	3192.9
#2	3762.5	2429.0	17124.	3178.7

Sample Name: 480-121297-o-7-c Acquired: 7/27/2017 14:22:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.03074**	**.00701**	**.04626**	**.15478**
Stddev	.00008	.00448	.00070	.00004	.00009
%RSD	13.561	14.564	9.9396	.07749	.05665
#1	-.00054	.02758	.00651	.04629	.15485
#2	-.00065	.03391	.00750	.04624	.15472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**170.64**	**.00049**	**.0323**	**.00035**
Stddev	.00002	2.29	.00004	.0082	.00002
%RSD	89.645	1.3408	8.8905	25.35	5.2070
#1	-.00004	172.26	.00052	.0381	.00036
#2	-.00001	169.02	.00046	.0265	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**-.00171**	**2.3237**	**3.1748**	**.02759**
Stddev	.00109	.00108	.0339	.0050	.00035
%RSD	100.95	63.001	1.4590	.15718	1.2775
#1	.00185	-.00247	2.3476	3.1712	.02784
#2	.00031	-.00095	2.2997	3.1783	.02734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121297-o-7-c Acquired: 7/27/2017 14:22:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**77.865**	**.06234**	**.00103**	**52.076**	**.00194**
Stddev	.069	.00007	.00008	.612	.00012
%RSD	.08888	.10660	7.9027	1.1745	6.4035
#1	77.816	.06230	.00097	52.508	.00203
#2	77.914	.06239	.00108	51.644	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**18.480**	**.00015**	**.00012**	**9.0732**
Stddev	.00084	.023	.00212	.00240	.1093
%RSD	650.64	.12669	1450.3	1919.3	1.2044
#1	-.00046	18.464	-.00135	.00182	9.1504
#2	.00072	18.497	.00164	-.00157	8.9959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.55648**	**.00133**	**.00189**	**-.00129**
Stddev	.00014	.00612	.00046	.00076	.00040
%RSD	106.93	1.0991	34.910	40.295	30.851
#1	.00003	.56081	.00165	.00135	-.00158
#2	.00024	.55216	.00100	.00243	-.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121297-o-7-c Acquired: 7/27/2017 14:22:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00191
Stddev	.00008
%RSD	3.9620
#1	.00196
#2	.00185
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3209.9	2270.2	16238.	3175.2
Stddev	4.8	3.2	21.	46.5
%RSD	.14844	.14016	.13006	1.4643
#1	3206.5	2267.9	16223.	3142.3
#2	3213.2	2272.4	16253.	3208.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.866%	94.424%	94.687%	102.18%
Range				

Sample Name: 480-121277-d-1-c Acquired: 7/27/2017 14:26:00 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.03463**	**.00360**	**.02926**	**.15225**
Stddev	.00060	.00117	.00019	.00035	.00049
%RSD	270.24	3.3867	5.2959	1.1868	.32220
#1	-.00064	.03381	.00374	.02902	.15190
#2	.00020	.03546	.00347	.02951	.15260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**94.160**	**.00041**	**.0460**	**-.00012**
Stddev	.00000	.091	.00002	.0213	.00008
%RSD	5.7182	.09709	4.4689	46.42	71.862
#1	-.00001	94.096	.00042	.0611	-.00017
#2	-.00001	94.225	.00040	.0309	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00310**	**.03159**	**1.3844**	**-.00069**
Stddev	.00013	.00004	.00040	.0354	.00094
%RSD	16.673	1.1652	1.2716	2.5588	136.87
#1	.00084	.00308	.03188	1.3594	-.00002
#2	.00066	.00313	.03131	1.4095	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-1-c Acquired: 7/27/2017 14:26:00 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.149**	**.00047**	**.00012**	**47.563**	**.00050**
Stddev	.034	.00001	.00007	.028	.00017
%RSD	.10337	2.5285	57.128	.05906	33.566
#1	33.125	.00047	.00017	47.583	.00061
#2	33.173	.00046	.00007	47.543	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**12.457**	**-.00021**	**-.00532**	**5.5215**
Stddev	.00042	.022	.00091	.00236	.0132
%RSD	37.939	.17319	430.89	44.450	.23936
#1	.00140	12.441	.00043	-.00699	5.5308
#2	.00081	12.472	-.00085	-.00365	5.5121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**.17752**	**.00101**	**.00302**	**-.00038**
Stddev	.00019	.00034	.00018	.00190	.00027
%RSD	27.959	.19148	17.351	62.980	69.600
#1	-.00054	.17728	.00114	.00436	-.00019
#2	-.00081	.17776	.00089	.00167	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-1-c Acquired: 7/27/2017 14:26:00 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07599
Stddev	.00014
%RSD	.18255
#1	.07609
#2	.07589
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3355.5	2323.7	16403.	3210.0
Stddev	2.3	1.2	34.	9.7
%RSD	.06953	.05216	.20424	.30271
#1	3357.1	2324.5	16427.	3216.8
#2	3353.8	2322.8	16380.	3203.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.761%	96.649%	95.651%	103.30%
Range				

Sample Name: 480-121277-d-2-c Acquired: 7/27/2017 14:29:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.02127**	**.00171**	**.02994**	**.12584**
Stddev	.00067	.00697	.00147	.00034	.00021
%RSD	2593.4	32.760	85.956	1.1411	.16469
#1	.00050	.01634	.00275	.03019	.12599
#2	-.00045	.02619	.00067	.02970	.12570
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**86.492**	**.00040**	**.0135**	**.00012**
Stddev	.00002	.345	.00028	.0038	.00005
%RSD	48.106	.39893	71.279	28.04	44.282
#1	-.00006	86.248	.00020	.0108	.00015
#2	-.00003	86.736	.00060	.0161	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00673**	**.00595**	**1.5612**	**-.00096**
Stddev	.00102	.00010	.00081	.0269	.00003
%RSD	2060.5	1.4126	13.677	1.7214	3.4022
#1	.00077	.00666	.00538	1.5422	-.00099
#2	-.00067	.00679	.00653	1.5802	-.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-2-c Acquired: 7/27/2017 14:29:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.054**	**.00145**	**.00007**	**57.167**	**.00043**
Stddev	.108	.00006	.00013	.334	.00027
%RSD	.33587	3.8252	182.15	.58458	63.344
#1	32.130	.00141	.00016	56.931	.00024
#2	31.978	.00149	-.00002	57.403	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00221**	**10.712**	**-.00088**	**-.00234**	**5.4823**
Stddev	.00075	.012	.00007	.00157	.0212
%RSD	33.917	.11241	7.4436	66.853	.38672
#1	.00168	10.720	-.00093	-.00123	5.4673
#2	.00274	10.703	-.00083	-.00345	5.4972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.17525**	**.00124**	**.00189**	**-.00017**
Stddev	.00040	.00125	.00004	.00094	.00041
%RSD	115.78	.71566	3.0230	49.885	234.24
#1	-.00064	.17436	.00127	.00122	.00011
#2	-.00006	.17614	.00122	.00256	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-2-c Acquired: 7/27/2017 14:29:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.19798
Stddev	.00046
%RSD	.23132
#1	.19765
#2	.19830
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3358.0	2324.7	16524.	3200.4
Stddev	11.4	9.1	40.	14.0
%RSD	.34062	.39191	.24151	.43875
#1	3366.0	2331.2	16496.	3210.3
#2	3349.9	2318.3	16552.	3190.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.827%	96.693%	96.353%	102.99%
Range				

Sample Name: 480-121277-d-3-e Acquired: 7/27/2017 14:32:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**.02238**	**.00142**	**.03210**	**.11761**
Stddev	.00090	.00412	.00030	.00002	.00026
%RSD	109.71	18.396	21.299	.07657	.22107
#1	-.00018	.02529	.00163	.03212	.11742
#2	-.00146	.01947	.00120	.03209	.11779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**89.890**	**.00028**	**.0193**	**.00014**
Stddev	.00012	.164	.00007	.0149	.00005
%RSD	360.13	.18240	23.922	77.01	36.866
#1	-.00005	90.006	.00023	.0088	.00011
#2	.00012	89.774	.00033	.0299	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00355**	**.00784**	**1.5373**	**-.00086**
Stddev	.00032	.00013	.00185	.0511	.00097
%RSD	51.428	3.6956	23.644	3.3212	112.21
#1	.00084	.00346	.00916	1.5734	-.00018
#2	.00039	.00364	.00653	1.5012	-.00154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-3-e Acquired: 7/27/2017 14:32:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.181**	**.00411**	**.00013**	**63.349**	**.00064**
Stddev	.123	.00011	.00010	.837	.00009
%RSD	.38081	2.5835	82.636	1.3207	13.767
#1	32.094	.00403	.00005	63.941	.00070
#2	32.268	.00418	.00020	62.757	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**9.7234**	**.00009**	**-.00318**	**5.6950**
Stddev	.00037	.0138	.00049	.00072	.0069
%RSD	38.037	.14193	576.47	22.757	.12147
#1	.00125	9.7332	.00044	-.00267	5.6999
#2	.00072	9.7137	-.00026	-.00370	5.6901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.20819**	**.00070**	**.00163**	**-.00093**
Stddev	.00003	.00101	.00097	.00007	.00066
%RSD	3.2154	.48691	139.04	4.5140	70.261
#1	-.00104	.20891	.00139	.00168	-.00140
#2	-.00099	.20748	.00001	.00158	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121277-d-3-e Acquired: 7/27/2017 14:32:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04128**
Stddev	.00041
%RSD	.98630
#1	.04099
#2	.04157
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3335.9**	**2315.1**	**16445.**	**3198.6**
Stddev	.9	3.2	46.	3.7
%RSD	.02847	.13722	.27982	.11424
#1	3336.6	2317.3	16477.	3201.2
#2	3335.3	2312.8	16412.	3196.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.238%	96.293%	95.891%	102.94%
Range				

Sample Name: 480-121289-c-11-d Acquired: 7/27/2017 14:36:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**34.519**	**.00375**	**.35070**	**.08867**
Stddev	.00106	.129	.00009	.00138	.00007
%RSD	165.53	.37234	2.4851	.39244	.08033
#1	-.00011	34.610	.00368	.34972	.08872
#2	.00139	34.429	.00381	.35167	.08862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00266**	**8.6671**	**.00035**	**.0928**	**.00775**
Stddev	.00009	.0216	.00006	.0005	.00017
%RSD	3.3160	.24874	17.124	.4863	2.1651
#1	.00260	8.6823	.00040	.0925	.00786
#2	.00272	8.6518	.00031	.0932	.00763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03025**	**.02030**	**15.627**	**2.6567**	**.02160**
Stddev	.00017	.00045	.053	.0189	.00003
%RSD	.55459	2.2068	.34014	.71013	.11736
#1	.03013	.02062	15.665	2.6701	.02158
#2	.03037	.01998	15.590	2.6434	.02162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121289-c-11-d Acquired: 7/27/2017 14:36:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4349**	**.24916**	**.00512**	**270.94**	**.02844**
Stddev	.0244	.00057	.00019	.30	.00060
%RSD	.32853	.22954	3.7408	.11097	2.0993
#1	7.4176	.24876	.00525	271.15	.02801
#2	7.4522	.24957	.00498	270.73	.02886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03892**	**18.878**	**-.00007**	**-.00039**	F **55.920**
Stddev	.00022	.009	.00176	.00084	.206
%RSD	.55939	.04718	2378.1	216.00	.36771
#1	.03908	18.885	.00117	.00020	56.065
#2	.03877	18.872	-.00132	-.00098	55.775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					50.000
Low Limit					-.50000

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00314**	**.28110**	**.13779**	**.00049**	**.01171**
Stddev	.00024	.00084	.00021	.00113	.00033
%RSD	7.6431	.29962	.15490	233.21	2.8532
#1	.00297	.28169	.13794	.00129	.01147
#2	.00331	.28050	.13764	-.00032	.01195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121289-c-11-d Acquired: 7/27/2017 14:36:06 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.06546
Stddev	.00026
%RSD	.39984
#1	.06565
#2	.06528
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3226.0	2396.5	16636.	3285.0
Stddev	5.4	3.6	39.	27.6
%RSD	.16760	.15093	.23671	.84062
#1	3229.8	2399.1	16663.	3265.5
#2	3222.2	2394.0	16608.	3304.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.297%	99.680%	97.004%	105.72%
Range				

Sample Name: 480-121309-c-1-c Acquired: 7/27/2017 14:39:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.03834**	**.01930**	**6.6849**	**.07904**
Stddev	.00025	.00092	.00141	.0079	.00003
%RSD	39.898	2.3962	7.3200	.11860	.03725
#1	-.00045	.03769	.02030	6.6905	.07906
#2	-.00080	.03898	.01830	6.6793	.07902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**248.48**	**.00067**	**.0593**	**.00510**
Stddev	.00009	.60	.00019	.0093	.00004
%RSD	197.93	.23961	28.523	15.70	.71169
#1	.00011	248.06	.00053	.0527	.00513
#2	-.00002	248.90	.00080	.0659	.00507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01560**	**.00374**	**.28407**	**77.563**	**.13198**
Stddev	.00033	.00060	.00223	.193	.00180
%RSD	2.0995	15.970	.78635	.24819	1.3630
#1	.01537	.00416	.28249	77.427	.13071
#2	.01583	.00331	.28565	77.699	.13325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121309-c-1-c Acquired: 7/27/2017 14:39:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.615**	**1.8531**	**.18741**	**2373.4**	**.01737**
Stddev	.055	.0026	.00065	6.3	.00081
%RSD	.10602	.13979	.34543	.26536	4.6491
#1	51.654	1.8549	.18787	2369.0	.01680
#2	51.576	1.8513	.18696	2377.9	.01794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00436**	F **1530.2**	**.00168**	**.14288**	**13.448**
Stddev	.00017	2.8	.00133	.00321	.051
%RSD	3.9932	.18405	79.141	2.2486	.37739
#1	.00423	1532.2	.00074	.14061	13.412
#2	.00448	1528.2	.00262	.14515	13.484
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**2.4527**	**.02043**	**.00221**	**.02215**
Stddev	.00027	.0105	.00087	.00198	.00081
%RSD	27.822	.42654	4.2664	89.646	3.6444
#1	.00077	2.4453	.02105	.00081	.02273
#2	.00114	2.4601	.01981	.00362	.02158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121309-c-1-c Acquired: 7/27/2017 14:39:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01048**
Stddev	.00009
%RSD	.88758
#1	.01055
#2	.01042
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2538.3**	**2056.7**	**14234.**	**3062.5**
Stddev	3.1	1.2	41.	21.2
%RSD	.12058	.06018	.28929	.69281
#1	2540.5	2057.5	14205.	3077.5
#2	2536.2	2055.8	14263.	3047.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.902%	85.544%	82.999%	98.556%
Range				

Sample Name: 480-121298-c-2-c Acquired: 7/27/2017 14:42:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.04960**	**.18751**	**15.765**	**.67269**
Stddev	.00005	.00707	.00084	.020	.00366
%RSD	13.447	14.244	.44756	.12452	.54422
#1	-.00031	.04461	.18810	15.779	.67528
#2	-.00037	.05460	.18691	15.751	.67010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**95.536**	**.00044**	**.0026**	**.02377**
Stddev	.00002	.208	.00001	.0102	.00010
%RSD	36.969	.21732	3.3376	384.6	.42876
#1	-.00007	95.683	.00043	.0098	.02384
#2	-.00004	95.389	.00045	-.0045	.02370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06579**	**-.00004**	**7.4458**	**388.50**	**.50491**
Stddev	.00025	.00028	.0020	.68	.00019
%RSD	.38686	786.08	.02718	.17606	.03699
#1	.06561	-.00023	7.4473	388.99	.50504
#2	.06597	.00016	7.4444	388.02	.50478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121298-c-2-c Acquired: 7/27/2017 14:42:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.499**	**.12008**	**.01206**	**1431.4**	**.18675**
Stddev	.086	.00017	.00002	.7	.00072
%RSD	.09846	.13878	.18749	.05039	.38635
#1	87.560	.11996	.01207	1431.9	.18726
#2	87.438	.12020	.01204	1430.8	.18624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00625**	**27.746**	**.00307**	**.00148**	**21.820**
Stddev	.00149	.055	.00023	.00012	.037
%RSD	23.888	.19807	7.4412	8.2341	.16962
#1	.00519	27.785	.00323	.00156	21.793
#2	.00731	27.707	.00291	.00139	21.846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.98502**	**.08266**	**.00259**	**.04320**
Stddev	.00135	.00171	.00067	.00111	.00062
%RSD	18.742	.17330	.80817	42.739	1.4433
#1	.00815	.98623	.08219	.00338	.04276
#2	.00624	.98381	.08313	.00181	.04364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121298-c-2-c Acquired: 7/27/2017 14:42:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01252**
Stddev	.00014
%RSD	1.1006
#1	.01262
#2	.01243
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2681.4**	**2095.5**	**14675.**	**3127.3**
Stddev	.2	1.6	47.	.5
%RSD	.00717	.07593	.31961	.01748
#1	2681.2	2094.3	14642.	3126.9
#2	2681.5	2096.6	14708.	3127.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.728%	87.158%	85.573%	100.64%
Range				

Sample Name: 480-121298-c-1-c Acquired: 7/27/2017 14:46:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**.30791**	**.27610**	F **27.779**	**.46697**
Stddev	.00184	.01870	.00015	.001	.00003
%RSD	160.38	6.0740	.05528	.00334	.00724
#1	-.00245	.29468	.27621	27.779	.46700
#2	.00015	.32113	.27599	27.780	.46695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**28.822**	**.00054**	**-.0074**	**.06188**
Stddev	.00002	.012	.00004	.0274	.00044
%RSD	27.697	.03989	7.7356	368.9	.70396
#1	.00006	28.830	.00057	-.0268	.06157
#2	.00008	28.814	.00051	.0119	.06219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44795**	**.01186**	**3.8158**	F **1103.2**	**3.8282**
Stddev	.00269	.00035	.0176	8.1	.0112
%RSD	.60090	2.9443	.46216	.73820	.29367
#1	.44985	.01211	3.8034	1109.0	3.8362
#2	.44604	.01161	3.8283	1097.5	3.8203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-121298-c-1-c Acquired: 7/27/2017 14:46:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.789**	**.03815**	**.03102**	**2618.9**	**.78198**
Stddev	.011	.00007	.00003	.5	.00119
%RSD	.01287	.17442	.09613	.01743	.15162
#1	84.797	.03820	.03104	2619.2	.78114
#2	84.781	.03810	.03100	2618.5	.78282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02480**	**35.102**	**.01014**	**.01036**	**18.541**
Stddev	.00032	.022	.00021	.00404	.039
%RSD	1.3083	.06231	2.0563	38.993	.20949
#1	.02503	35.117	.01029	.01322	18.514
#2	.02457	35.086	.00999	.00750	18.569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17573**	**.63013**	**.58769**	**-.00078**	**.14870**
Stddev	.00092	.00027	.00176	.00049	.00051
%RSD	.52223	.04221	.29913	62.275	.34034
#1	.17638	.63032	.58894	-.00044	.14834
#2	.17509	.62995	.58645	-.00112	.14906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121298-c-1-c Acquired: 7/27/2017 14:46:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.11019**
Stddev	.00081
%RSD	.73959
#1	.11077
#2	.10962
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2471.5**	**2014.6**	**13750.**	**2975.7**
Stddev	3.4	.2	46.	11.4
%RSD	.13671	.00805	.33222	.38434
#1	2473.9	2014.5	13717.	2983.8
#2	2469.1	2014.7	13782.	2967.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	66.114%	83.793%	80.177%	95.764%
Range				

Sample Name: 480-121298-c-1-c@5 Acquired: 7/27/2017 14:49:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.08200**	**.04982**	**5.4312**	**.09094**
Stddev	.00019	.00436	.00173	.0022	.00022
%RSD	45.900	5.3204	3.4821	.03977	.23645
#1	-.00056	.08509	.04859	5.4297	.09109
#2	-.00029	.07892	.05104	5.4327	.09079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**5.4732**	**.00024**	**.0161**	**.01128**
Stddev	.00013	.0170	.00015	.0095	.00012
%RSD	823.10	.31059	62.092	59.06	1.0215
#1	.00011	5.4852	.00013	.0228	.01119
#2	-.00007	5.4612	.00034	.0094	.01136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08385**	**.00133**	**.72265**	**221.15**	**.71978**
Stddev	.00014	.00091	.00156	.00	.00214
%RSD	.16995	68.372	.21583	.00175	.29711
#1	.08395	.00069	.72154	221.14	.71826
#2	.08375	.00197	.72375	221.15	.72129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121298-c-1-c@5 Acquired: 7/27/2017 14:49:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.047**	**.00725**	**.00593**	**481.06**	**.14248**
Stddev	.024	.00002	.00020	.69	.00001
%RSD	.14926	.26950	3.3531	.14240	.00493
#1	16.030	.00723	.00607	480.57	.14247
#2	16.064	.00726	.00579	481.54	.14248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00599**	**6.2699**	**.00189**	**-.00160**	**3.5555**
Stddev	.00186	.0064	.00085	.00143	.0054
%RSD	30.976	.10252	44.821	89.879	.15063
#1	.00731	6.2744	.00249	-.00058	3.5593
#2	.00468	6.2654	.00129	-.00261	3.5517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03072**	**.11979**	**.11105**	**.00068**	**.02704**
Stddev	.00016	.00013	.00006	.00032	.00008
%RSD	.50603	.10853	.05301	46.785	.29137
#1	.03083	.11969	.11109	.00045	.02710
#2	.03061	.11988	.11100	.00090	.02699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121298-c-1-c@5 Acquired: 7/27/2017 14:49:55 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02088
Stddev	.00073
%RSD	3.5177
#1	.02036
#2	.02140
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2989.2	2218.0	15535.	3150.5
Stddev	8.6	4.5	24.	6.7
%RSD	.28723	.20350	.15488	.21191
#1	2983.1	2214.8	15552.	3155.2
#2	2995.2	2221.2	15518.	3145.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.962%	92.253%	90.588%	101.39%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:53:21 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51666**	**24.852**	**.49882**	**.53806**	**.49225**
Stddev	.00395	.024	.00200	.00140	.00134
%RSD	.76394	.09728	.39998	.26098	.27217
#1	.51387	24.870	.50023	.53905	.49319
#2	.51945	24.835	.49741	.53707	.49130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49584**	**24.537**	**.49836**	**-.0122**	**.49085**
Stddev	.00066	.040	.00069	.0178	.00066
%RSD	.13333	.16193	.13903	145.7	.13511
#1	.49631	24.566	.49885	-.0248	.49132
#2	.49537	24.509	.49787	.0004	.49038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51649**	**.49551**	**23.831**	**24.548**	**.49410**
Stddev	.00010	.00294	.140	.204	.00185
%RSD	.01847	.59315	.58537	.83012	.37391
#1	.51656	.49759	23.930	24.692	.49540
#2	.51642	.49343	23.732	24.404	.49279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:53:21 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.871**	**.51129**	**.50811**	**24.640**	**.49639**
Stddev	.054	.00086	.00019	.086	.00087
%RSD	.21669	.16855	.03652	.34989	.17476
#1	24.909	.51190	.50824	24.701	.49701
#2	24.833	.51068	.50798	24.579	.49578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49400**	**24.697**	**.49559**	**.50635**	**24.259**
Stddev	.00048	.023	.00073	.00274	.128
%RSD	.09709	.09368	.14692	.54164	.52593
#1	.49366	24.681	.49507	.50441	24.349
#2	.49434	24.714	.49610	.50829	24.168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50242**	**.48145**	**.49571**	**.49148**	**.51962**
Stddev	.00035	.00265	.00186	.00222	.00133
%RSD	.06950	.55025	.37438	.45127	.25537
#1	.50266	.48333	.49702	.48991	.51868
#2	.50217	.47958	.49440	.49305	.52055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 14:53:21 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51548**
Stddev	.00008
%RSD	.01610
#1	.51553
#2	.51542
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3407.9**	**2367.0**	**16518.**	**3148.8**
Stddev	6.5	4.1	33.	.3
%RSD	.19024	.17229	.19899	.00894
#1	3403.3	2364.1	16495.	3149.0
#2	3412.5	2369.9	16541.	3148.6

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:56:31 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00134**	**.00173**	F **.02681**	**.00018**
Stddev	.00083	.00837	.00120	.00086	.00023
%RSD	376.55	624.71	69.285	3.1934	126.58
#1	-.00081	-.00458	.00257	.02741	.00002
#2	.00037	.00726	.00088	.02620	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				.02000	
Low Limit				-.02000	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00674**	**-.00001**	**.0299**	**.00023**
Stddev	.00002	.00379	.00008	.0148	.00007
%RSD	42.004	56.248	769.34	49.40	29.594
#1	.00004	.00942	.00005	.0403	.00027
#2	.00008	.00406	-.00007	.0195	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00020**	**-.00041**	**.24108**	**.00027**
Stddev	.00046	.00022	.00214	.02431	.00012
%RSD	69.782	107.94	519.76	10.085	45.865
#1	.00098	.00005	.00110	.25827	.00035
#2	.00033	.00035	-.00193	.22388	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:56:31 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01683**	**.00029**	**-.00002**	**.13649**	**-.00024**
Stddev	.01782	.00038	.00040	.01339	.00004
%RSD	105.87	130.50	1864.3	9.8071	14.841
#1	.00423	.00002	-.00031	.14595	-.00026
#2	.02943	.00055	.00026	.12702	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.04006**	**.00101**	**-.00073**	**.03218**
Stddev	.00055	.00005	.00057	.00253	.00099
%RSD	88.623	.12754	56.304	347.83	3.0753
#1	.00023	.04009	.00061	-.00252	.03288
#2	.00102	.04002	.00141	.00106	.03148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00020**	**.00056**	**.00197**	**-.00023**
Stddev	.00021	.00008	.00061	.00044	.00016
%RSD	453.12	40.794	109.47	22.436	69.407
#1	-.00019	.00014	.00013	.00166	-.00034
#2	.00010	.00026	.00099	.00229	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 14:56:31 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00006**
Stddev	.00014
%RSD	245.90
#1	.00016
#2	-.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3734.7**	**2394.7**	**17101.**	**3159.5**
Stddev	3.4	1.2	42.	1.7
%RSD	.09226	.05157	.24734	.05269
#1	3732.3	2393.8	17071.	3160.7
#2	3737.1	2395.6	17130.	3158.4

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:59:56 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00587**	**.18773**	**.01734**	F **.03959**	**.00204**
Stddev	.00039	.02259	.00324	.00077	.00006
%RSD	6.5877	12.033	18.706	1.9497	3.0568
#1	.00560	.17176	.01504	.04013	.00200
#2	.00614	.20370	.01963	.03904	.00209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				.02000	
Range				50.000%	

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**.49724**	**.00206**	**.0138**	**.00394**
Stddev	.00004	.00812	.00005	.0063	.00008
%RSD	1.8911	1.6326	2.5889	45.71	1.9985
#1	.00209	.49150	.00202	.0183	.00388
#2	.00204	.50298	.00209	.0093	.00399
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00418**	**.00979**	**.04722**	W **.69682**	**.02683**
Stddev	.00008	.00104	.00275	.02202	.00034
%RSD	1.9384	10.639	5.8234	3.1597	1.2812
#1	.00424	.00905	.04916	.68125	.02708
#2	.00412	.01053	.04527	.71239	.02659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value				.50000	
Range				30.000%	

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:59:56 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19776**	**.00307**	**.01068**	**1.0867**	**.00959**
Stddev	.00208	.00002	.00005	.0078	.00003
%RSD	1.0512	.56576	.47031	.71763	.26571
#1	.19923	.00306	.01072	1.0812	.00957
#2	.19629	.00309	.01065	1.0922	.00960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01091**	**.22196**	**.01951**	**.02451**	**.51623**
Stddev	.00044	.00013	.00097	.00206	.00143
%RSD	3.9980	.06075	4.9827	8.3971	.27798
#1	.01060	.22186	.01882	.02305	.51724
#2	.01122	.22205	.02020	.02596	.51521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00905**	**.00497**	**.00500**	**.02119**	**.00451**
Stddev	.00019	.00003	.00034	.00001	.00034
%RSD	2.0587	.51296	6.8290	.02910	7.5506
#1	.00892	.00495	.00476	.02119	.00475
#2	.00918	.00499	.00524	.02119	.00427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 14:59:56 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01143**
Stddev	.00076
%RSD	6.6647
#1	.01089
#2	.01197
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3746.0**	**2413.1**	**17112.**	**3145.5**
Stddev	2.9	4.8	42.	22.2
%RSD	.07685	.19687	.24352	.70618
#1	3748.1	2416.4	17082.	3161.2
#2	3744.0	2409.7	17141.	3129.8

Sample Name: Ib2 480-368394/1-b Acquired: 7/27/2017 15:03:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.03568**	**.00265**	**.04179**	**.00786**
Stddev	.00012	.01727	.00310	.00040	.00006
%RSD	24.028	48.409	116.93	.95207	.71280
#1	-.00040	.04790	.00046	.04208	.00783
#2	-.00057	.02347	.00484	.04151	.00790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.32001**	**.00018**	**-.0013**	**.00030**
Stddev	.00007	.00053	.00007	.0099	.00003
%RSD	374.16	.16418	39.888	788.0	10.778
#1	-.00007	.32038	.00023	-.0082	.00028
#2	.00003	.31964	.00013	.0057	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00163**	**.03341**	**.18464**	**-.00116**
Stddev	.00014	.00055	.00061	.01198	.00105
%RSD	54.023	34.061	1.8337	6.4886	90.095
#1	.00016	.00124	.03384	.17616	-.00042
#2	.00036	.00202	.03298	.19311	-.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lb2 480-368394/1-b Acquired: 7/27/2017 15:03:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04657**	**.00417**	**-.00016**	**.60901**	**.00077**
Stddev	.00457	.00014	.00013	.00031	.00026
%RSD	9.8125	3.3485	82.083	.05133	33.708
#1	.04334	.00408	-.00025	.60923	.00058
#2	.04980	.00427	-.00007	.60879	.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00453**	**.04117**	**.00075**	**-.00057**	**.07740**
Stddev	.00040	.00027	.00059	.00187	.01236
%RSD	8.9479	.65119	78.913	331.55	15.969
#1	.00481	.04136	.00033	-.00189	.08615
#2	.00424	.04098	.00117	.00076	.06866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00237**	**.00067**	**.00048**	**-.00013**
Stddev	.00011	.00001	.00040	.00209	.00009
%RSD	43.044	.23875	59.733	431.91	70.423
#1	-.00034	.00238	.00095	-.00099	-.00007
#2	-.00018	.00237	.00038	.00196	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lb2 480-368394/1-b Acquired: 7/27/2017 15:03:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00765
Stddev	.00037
%RSD	4.8712
#1	.00738
#2	.00791
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3831.2	2445.7	17491.	3238.3
Stddev	6.1	4.5	24.	1.7
%RSD	.15929	.18463	.13636	.05206
#1	3835.5	2448.9	17508.	3237.1
#2	3826.9	2442.5	17474.	3239.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.49%	101.73%	101.99%	104.21%
Range				

Sample Name: mb 480-368571/2-a Acquired: 7/27/2017 15:06:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**-.00081**	**.00071**	**.01644**	**.00005**
Stddev	.00065	.00668	.00035	.00045	.00001
%RSD	103.44	826.52	49.211	2.7566	28.691
#1	.00109	.00392	.00096	.01676	.00006
#2	.00017	-.00554	.00047	.01612	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01022**	**.00003**	**.0285**	**.00013**
Stddev	.00001	.00131	.00001	.0116	.00013
%RSD	64.650	12.870	28.843	40.50	101.03
#1	-.00001	.01115	.00004	.0367	.00004
#2	-.00002	.00929	.00003	.0204	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**-.00047**	**.00126**	**.14949**	**-.00095**
Stddev	.00064	.00016	.00203	.00175	.00019
%RSD	101.70	33.170	161.81	1.1693	20.003
#1	.00108	-.00059	-.00018	.14826	-.00109
#2	.00018	-.00036	.00269	.15073	-.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368571/2-a Acquired: 7/27/2017 15:06:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00020**	**-.00006**	**.07212**	**.00037**
Stddev	.00197	.00001	.00014	.00406	.00006
%RSD	5980.6	3.9369	236.97	5.6352	16.998
#1	-.00143	.00019	-.00016	.06925	.00041
#2	.00136	.00020	.00004	.07500	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.02116**	**.00035**	**-.00128**	**.03574**
Stddev	.00126	.00441	.00349	.00006	.00147
%RSD	1171.4	20.827	1005.5	5.0370	4.1247
#1	.00100	.02428	.00281	-.00123	.03469
#2	-.00078	.01804	-.00212	-.00132	.03678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00011**	**.00056**	**.00234**	**.00002**
Stddev	.00006	.00007	.00029	.00060	.00013
%RSD	20.226	65.052	52.434	25.460	871.11
#1	-.00028	.00006	.00035	.00276	.00011
#2	-.00037	.00017	.00076	.00192	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368571/2-a Acquired: 7/27/2017 15:06:44 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00117
Stddev	.00043
%RSD	36.842
#1	.00087
#2	.00148
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3784.7	2423.0	17292.	3230.2
Stddev	6.7	3.5	34.	3.8
%RSD	.17603	.14537	.19784	.11731
#1	3789.4	2425.5	17316.	3232.9
#2	3780.0	2420.5	17268.	3227.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.24%	100.78%	100.83%	103.95%
Range				

Sample Name: lcs 480-368571/3-a Acquired: 7/27/2017 15:10:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94808**	**.05644**	**.93148**	**.03619**	**.92904**
Stddev	.00289	.00721	.00463	.00001	.00186
%RSD	.30445	12.766	.49660	.02458	.19983
#1	.94604	.05135	.92821	.03619	.93036
#2	.95012	.06154	.93475	.03620	.92773
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94642**	**.32873**	**.95472**	**.0126**	**.88139**
Stddev	.00362	.00209	.00120	.0139	.00103
%RSD	.38275	.63676	.12541	109.9	.11724
#1	.94899	.32725	.95387	.0225	.88066
#2	.94386	.33021	.95556	.0028	.88212
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97617**	**.93401**	**.03792**	**.13410**	**-.00093**
Stddev	.00020	.00293	.00351	.02463	.00106
%RSD	.02048	.31413	9.2493	18.367	114.22
#1	.97631	.93609	.04040	.15152	-.00018
#2	.97602	.93194	.03544	.11668	-.00167
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: lcs 480-368571/3-a Acquired: 7/27/2017 15:10:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04812**	**.96806**	**.96175**	**.59546**	**.89118**
Stddev	.00034	.00020	.00097	.00841	.00047
%RSD	.69908	.02092	.10099	1.4118	.05310
#1	.04835	.96791	.96106	.60141	.89084
#2	.04788	.96820	.96244	.58952	.89151
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92962**	**.03724**	**.90954**	**.94579**	**.08657**
Stddev	.00164	.00041	.00307	.00451	.00056
%RSD	.17615	1.1105	.33728	.47729	.64480
#1	.93077	.03695	.90737	.94259	.08697
#2	.92846	.03754	.91170	.94898	.08618
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.91102**	**.00033**	**.91776**	**.97292**
Stddev	.00007	.00374	.00025	.00072	.00034
%RSD	129.09	.41051	76.648	.07835	.03480
#1	-.00000	.91366	.00051	.91725	.97316
#2	-.00010	.90837	.00015	.91827	.97268
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-368571/3-a Acquired: 7/27/2017 15:10:09 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.97421
Stddev	.00024
%RSD	.02508
#1	.97439
#2	.97404
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3789.2	2433.4	17346.	3240.3
Stddev	1.6	3.4	35.	2.6
%RSD	.04308	.13847	.20387	.08137
#1	3790.4	2435.8	17371.	3242.2
#2	3788.1	2431.0	17321.	3238.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.36%	101.21%	101.15%	104.28%
Range				

Sample Name: 480-121504-b-1-d Acquired: 7/27/2017 15:13:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00152**	**.15519**	**.00432**	**.03458**	**.00944**
Stddev	.00054	.01141	.00025	.00032	.00002
%RSD	35.343	7.3524	5.8215	.91891	.21846
#1	-.00114	.14713	.00415	.03480	.00942
#2	-.00190	.16326	.00450	.03435	.00945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**1.0798**	**.00016**	**.0178**	**.00014**
Stddev	.00005	.0042	.00013	.0155	.00024
%RSD	29.589	.39059	79.207	86.67	170.52
#1	.00013	1.0768	.00026	.0288	.00032
#2	.00020	1.0828	.00007	.0069	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00067**	**.31778**	**.05071**	**3.0171**	**.00213**
Stddev	.00028	.00075	.00029	.2929	.00036
%RSD	41.946	.23472	.57974	9.7093	16.966
#1	.00047	.31725	.05050	2.8100	.00188
#2	.00087	.31831	.05092	3.2242	.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-d Acquired: 7/27/2017 15:13:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28873**	**.00284**	**.00132**	F **8737.5**	**.00356**
Stddev	.00628	.00009	.00001	155.1	.00003
%RSD	2.1758	3.2877	1.1221	1.7749	.73227
#1	.29317	.00277	.00131	8627.8	.00355
#2	.28428	.00290	.00134	8847.1	.00358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				4500.0	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01807**	**1.4900**	**.00079**	**.00185**	**1.0197**
Stddev	.00047	.0045	.00060	.00295	.0029
%RSD	2.6160	.30095	75.972	159.40	.28548
#1	.01841	1.4868	.00036	-.00024	1.0218
#2	.01774	1.4931	.00121	.00394	1.0177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04234**	**.01847**	**.02188**	**-.00274**	**.00086**
Stddev	.00020	.00025	.00022	.00125	.00043
%RSD	.48166	1.3405	1.0119	45.830	50.228
#1	.04248	.01829	.02172	-.00362	.00056
#2	.04219	.01864	.02204	-.00185	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-d Acquired: 7/27/2017 15:13:26 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.22725
Stddev	.00144
%RSD	.63514
#1	.22827
#2	.22623
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2207.1	1849.5	12399.	2949.8
Stddev	2.1	.1	38.	33.2
%RSD	.09601	.00681	.30529	1.1267
#1	2205.6	1849.6	12426.	2973.3
#2	2208.5	1849.4	12373.	2926.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	59.040%	76.926%	72.302%	94.930%
Range				

Sample Name: 480-121504-b-1-dSD@5 Acquired: 7/27/2017 15:17:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.03439**	**.00342**	**.01347**	**.00203**
Stddev	.00004	.01682	.00012	.00001	.00001
%RSD	10.687	48.897	3.5126	.09238	.45436
#1	-.00045	.02250	.00333	.01348	.00203
#2	-.00038	.04628	.00350	.01346	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.24346**	**.00019**	**.0298**	**-.00011**
Stddev	.00004	.00015	.00028	.0398	.00017
%RSD	27.241	.06191	144.97	133.3	160.64
#1	.00017	.24335	-.00000	.0017	-.00023
#2	.00011	.24357	.00039	.0580	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.05902**	**.00784**	**.86792**	**-.00069**
Stddev	.00064	.00049	.00017	.00254	.00003
%RSD	66.009	.82952	2.1151	.29260	4.8235
#1	.00051	.05868	.00796	.86613	-.00067
#2	.00142	.05937	.00773	.86972	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-dSD@5 Acquired: 7/27/2017 15:17:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05804**	**.00053**	**.00017**	**1751.0**	**.00068**
Stddev	.00436	.00006	.00021	.4	.00003
%RSD	7.5072	11.582	120.02	.02048	3.7034
#1	.05496	.00049	.00032	1750.7	.00066
#2	.06112	.00058	.00003	1751.2	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00482**	**.30451**	**-.00007**	**-.00302**	**.20826**
Stddev	.00059	.00188	.00128	.00360	.01111
%RSD	12.267	.61876	1798.0	119.21	5.3349
#1	.00440	.30584	-.00098	-.00047	.20040
#2	.00524	.30318	.00084	-.00556	.21612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00739**	**.00398**	**.00474**	**.00111**	**.00057**
Stddev	.00030	.00000	.00025	.00040	.00005
%RSD	4.1259	.09269	5.2287	36.028	8.9361
#1	.00717	.00398	.00457	.00139	.00053
#2	.00760	.00398	.00492	.00082	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-dSD@5 Acquired: 7/27/2017 15:17:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04418
Stddev	.00121
%RSD	2.7450
#1	.04504
#2	.04333
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2735.2	2107.9	14491.	3054.2
Stddev	4.8	3.5	62.	9.2
%RSD	.17717	.16544	.43043	.30105
#1	2738.6	2110.4	14447.	3060.7
#2	2731.7	2105.5	14535.	3047.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.167%	87.676%	84.500%	98.288%
Range				

Sample Name: 480-121504-b-1-d PDS Acquired: 7/27/2017 15:20:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4646**	**.16076**	**1.3610**	**.03518**	**1.0405**
Stddev	.0018	.03130	.0025	.00041	.0019
%RSD	.12208	19.472	.18396	1.1686	.18660
#1	1.4633	.18290	1.3592	.03547	1.0392
#2	1.4659	.13863	1.3628	.03489	1.0419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99594**	**1.1752**	**1.4009**	**-.0007**	**1.1304**
Stddev	.00129	.0087	.0016	.0124	.0008
%RSD	.12937	.74368	.11461	1649.	.06776
#1	.99503	1.1690	1.3998	.0080	1.1309
#2	.99685	1.1814	1.4021	-.0095	1.1298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0608**	**1.5661**	**.05213**	**13.402**	**.06065**
Stddev	.0018	.0046	.00264	.549	.00053
%RSD	.16469	.29036	5.0704	4.0930	.87327
#1	1.0620	1.5628	.05026	13.014	.06102
#2	1.0596	1.5693	.05400	13.789	.06027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-d PDS Acquired: 7/27/2017 15:20:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30182**	**1.0552**	**.99239**	F **17812.**	**1.1477**
Stddev	.00863	.0036	.00216	129.	.0004
%RSD	2.8589	.34031	.21791	.72360	.03886
#1	.29572	1.0527	.99086	17721.	1.1474
#2	.30792	1.0578	.99392	17903.	1.1481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				4500.0	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1794**	**1.7093**	**1.2405**	**1.3199**	**1.1424**
Stddev	.0024	.0092	.0018	.0022	.0232
%RSD	.20693	.53656	.14777	.16867	2.0317
#1	1.1811	1.7158	1.2418	1.3183	1.1260
#2	1.1776	1.7028	1.2392	1.3214	1.1588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10428**	**.07213**	**.02405**	**1.0118**	**1.0871**
Stddev	.00005	.00005	.00059	.0009	.0040
%RSD	.04483	.06774	2.4348	.09215	.36415
#1	.10425	.07216	.02364	1.0125	1.0899
#2	.10432	.07209	.02447	1.0112	1.0843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-d PDS Acquired: 7/27/2017 15:20:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.4986**
Stddev	.0047
%RSD	.31444
#1	1.4952
#2	1.5019
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1887.2**	**1657.8**	**11076.**	**2735.4**
Stddev	.8	2.0	6.	2.9
%RSD	.04497	.11842	.05659	.10638
#1	1887.8	1659.1	11081.	2733.4
#2	1886.6	1656.4	11072.	2737.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	50.483%	68.952%	64.587%	88.031%
Range				

Sample Name: 480-121504-b-1-e ms Acquired: 7/27/2017 15:26:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0493**	**.12495**	**.96564**	**.02568**	**.79540**
Stddev	.0101	.03139	.00277	.00019	.00080
%RSD	.96562	25.122	.28673	.73502	.10028
#1	1.0422	.10275	.96760	.02554	.79484
#2	1.0565	.14714	.96369	.02581	.79597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.78919**	**.90407**	**.96952**	**.0082**	**.86668**
Stddev	.00065	.00412	.00133	.0008	.00042
%RSD	.08283	.45594	.13705	9.365	.04790
#1	.78873	.90115	.97046	.0077	.86697
#2	.78965	.90698	.96858	.0088	.86638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.84327**	**.83810**	**.03522**	**2.6651**	**-.00000**
Stddev	.00383	.00394	.00113	.1543	.00078
%RSD	.45367	.47000	3.1995	5.7882	26057.
#1	.84057	.83532	.03443	2.5560	.00055
#2	.84598	.84089	.03602	2.7742	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-e ms Acquired: 7/27/2017 15:26:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24370**	**.82617**	**.78893**	F **6334.5**	**.87340**
Stddev	.00538	.00154	.00133	8.8	.00070
%RSD	2.2077	.18654	.16795	.13859	.08013
#1	.24750	.82508	.78987	6328.3	.87390
#2	.23989	.82726	.78800	6340.7	.87291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				4500.0	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.88619**	**1.3155**	**.86471**	**.95311**	**.85463**
Stddev	.00211	.0077	.00454	.00212	.00008
%RSD	.23800	.58493	.52483	.22209	.00979
#1	.88470	1.3209	.86792	.95461	.85469
#2	.88768	1.3100	.86150	.95161	.85457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03124**	**.78876**	**.01807**	**.78877**	**.85773**
Stddev	.00013	.00109	.00016	.00065	.00719
%RSD	.41590	.13790	.89452	.08239	.83773
#1	.03134	.78953	.01818	.78923	.85265
#2	.03115	.78799	.01796	.78831	.86282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-e ms Acquired: 7/27/2017 15:26:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.93902
Stddev	.00737
%RSD	.78481
#1	.93381
#2	.94423
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2338.5	1935.9	13086.	2965.3
Stddev	.4	1.1	91.	22.3
%RSD	.01607	.05529	.69459	.75088
#1	2338.8	1936.7	13150.	2981.1
#2	2338.2	1935.1	13022.	2949.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	62.556%	80.521%	76.307%	95.429%
Range				

Sample Name: 480-121504-b-1-f msd Acquired: 7/27/2017 16:08:16 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1824**	**.15614**	**1.1040**	**.02395**	**.89952**
Stddev	.0008	.00971	.0001	.00029	.00751
%RSD	.07123	6.2206	.01003	1.2230	.83446
#1	1.1829	.14927	1.1041	.02416	.89421
#2	1.1818	.16301	1.1039	.02375	.90482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.89535**	**1.0020**	**1.1147**	**.0060**	**.99025**
Stddev	.00824	.0105	.0003	.0091	.00045
%RSD	.92077	1.0504	.03072	151.6	.04495
#1	.88952	.99456	1.1145	.0124	.98994
#2	.90117	1.0094	1.1149	-.0004	.99057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96154**	**.96642**	**.04423**	**1.2290**	**.00316**
Stddev	.00192	.00559	.00337	.0869	.00133
%RSD	.19920	.57826	7.6094	7.0719	42.051
#1	.96289	.97037	.04185	1.1676	.00409
#2	.96019	.96247	.04661	1.2905	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-f msd Acquired: 7/27/2017 16:08:16 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.26928**	**.94175**	**.89159**	F **7396.4**	**.99477**
Stddev	.00347	.00115	.00137	94.1	.00043
%RSD	1.2902	.12245	.15361	1.2717	.04301
#1	.27174	.94256	.89062	7329.8	.99447
#2	.26682	.94093	.89256	7462.9	.99507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				4500.0	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0011**	**1.2051**	**.99082**	**1.0861**	**.94836**
Stddev	.0051	.0032	.00575	.0073	.01619
%RSD	.50765	.26761	.57991	.67197	1.7068
#1	1.0047	1.2074	.99489	1.0810	.93692
#2	.99752	1.2028	.98676	1.0913	.95981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03486**	**.89214**	**.02033**	**.87946**	**.97130**
Stddev	.00133	.01007	.00055	.00054	.00095
%RSD	3.8106	1.1285	2.7289	.06155	.09745
#1	.03392	.88503	.02072	.87984	.97197
#2	.03580	.89926	.01994	.87907	.97063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121504-b-1-f msd Acquired: 7/27/2017 16:08:16 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0689
Stddev	.0028
%RSD	.26492
#1	1.0669
#2	1.0709
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2273.8	1894.8	12736.	2900.8
Stddev	1.2	3.5	34.	46.2
%RSD	.05115	.18233	.26762	1.5921
#1	2274.6	1897.3	12712.	2933.4
#2	2273.0	1892.4	12760.	2868.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	60.826%	78.812%	74.266%	93.352%
Range				

Sample Name: lcsd 480-368571/7-a Acquired: 7/27/2017 16:19:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.89777**	**.04207**	**.89766**	**.02273**	**.90743**
Stddev	.00338	.02040	.00099	.00012	.00416
%RSD	.37616	48.479	.11063	.53035	.45855
#1	.89538	.05649	.89836	.02282	.90448
#2	.90016	.02765	.89696	.02265	.91037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91329**	**.30915**	**.92304**	**.0012**	**.85139**
Stddev	.00275	.00044	.00157	.0124	.00005
%RSD	.30088	.14233	.17025	1040.	.00632
#1	.91134	.30883	.92192	-.0076	.85136
#2	.91523	.30946	.92415	.0099	.85143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.93526**	**.90468**	**.03401**	**.07305**	**-.00137**
Stddev	.00218	.00144	.00070	.01444	.00025
%RSD	.23263	.15935	2.0649	19.765	18.203
#1	.93373	.90570	.03450	.08326	-.00154
#2	.93680	.90366	.03351	.06284	-.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368571/7-a Acquired: 7/27/2017 16:19:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04498**	**.93224**	**.92645**	**.78639**	**.86058**
Stddev	.00279	.00363	.00016	.00494	.00174
%RSD	6.2048	.38899	.01771	.62796	.20252
#1	.04301	.92967	.92657	.78988	.85934
#2	.04695	.93480	.92633	.78289	.86181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.89440**	**.02330**	**.87854**	**.91374**	**.07077**
Stddev	.00470	.00116	.00002	.00093	.01547
%RSD	.52503	4.9800	.00228	.10163	21.863
#1	.89108	.02248	.87853	.91309	.08172
#2	.89772	.02412	.87856	.91440	.05983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.88692**	**.00018**	**.89152**	**.92251**
Stddev	.00055	.00390	.00013	.00015	.00403
%RSD	2717.4	.43925	73.584	.01671	.43678
#1	-.00037	.88417	.00027	.89162	.91966
#2	.00041	.88968	.00008	.89141	.92536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-368571/7-a Acquired: 7/27/2017 16:19:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.93063
Stddev	.00553
%RSD	.59407
#1	.92672
#2	.93454
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3775.7	2420.8	17386.	3179.0
Stddev	9.4	6.2	61.	.9
%RSD	.24793	.25622	.35185	.02843
#1	3769.1	2416.4	17429.	3179.6
#2	3782.3	2425.2	17343.	3178.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.00%	100.69%	101.38%	102.31%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 16:22:50 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51037**	**24.886**	**.50055**	**.50126**	**.49217**
Stddev	.00209	.086	.00192	.00039	.00320
%RSD	.40904	.34439	.38341	.07792	.65117
#1	.51184	24.946	.50190	.50154	.48991
#2	.50889	24.825	.49919	.50099	.49444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49886**	**24.682**	**.49966**	**.0169**	**.49371**
Stddev	.00250	.068	.00058	.0080	.00066
%RSD	.50106	.27412	.11651	47.27	.13382
#1	.50063	24.730	.50007	.0226	.49418
#2	.49710	24.634	.49925	.0113	.49325
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51034**	**.49385**	**23.877**	**24.765**	**.50136**
Stddev	.00275	.00245	.066	.035	.00157
%RSD	.53923	.49563	.27563	.14108	.31382
#1	.50839	.49212	23.923	24.790	.50247
#2	.51229	.49558	23.830	24.740	.50025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 16:22:50 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.902**	**.51009**	**.51038**	**24.867**	**.49888**
Stddev	.180	.00321	.00110	.092	.00012
%RSD	.72217	.62973	.21550	.37162	.02365
#1	24.775	.50782	.51116	24.932	.49896
#2	25.029	.51236	.50961	24.801	.49880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49918**	**24.782**	**.49862**	**.50411**	**23.871**
Stddev	.00264	.015	.00101	.00592	.103
%RSD	.52922	.06101	.20264	1.1734	.43253
#1	.49731	24.793	.49933	.50829	23.944
#2	.50105	24.771	.49791	.49993	23.798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50503**	**.48863**	**.49534**	**.49499**	**.51840**
Stddev	.00014	.00157	.00202	.00215	.00223
%RSD	.02789	.32163	.40781	.43495	.42957
#1	.50513	.48974	.49391	.49651	.51682
#2	.50493	.48752	.49677	.49347	.51997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 16:22:50 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51239
Stddev	.00341
%RSD	.66541
#1	.50998
#2	.51480
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3402.4	2366.6	16687.	3118.2
Stddev	2.2	2.2	129.	8.9
%RSD	.06517	.09143	.77189	.28596
#1	3400.8	2365.1	16778.	3111.9
#2	3403.9	2368.2	16596.	3124.5

Sample Name: CCB-4130963 Acquired: 7/27/2017 16:25:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00130**	**-.00795**	**.00011**	**.00013**	**.00002**
Stddev	.00028	.03410	.00200	.00040	.00000
%RSD	21.725	428.99	1747.5	308.81	13.057
#1	-.00110	-.03206	.00153	.00041	.00003
#2	-.00150	.01616	-.00130	-.00015	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00433**	**.00014**	**.0273**	**.00020**
Stddev	.00008	.00024	.00009	.0098	.00002
%RSD	253.08	5.4546	63.484	35.87	11.319
#1	-.00002	.00416	.00008	.0342	.00022
#2	.00008	.00449	.00021	.0204	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00038**	**-.00214**	**-.01307**	**-.00171**
Stddev	.00071	.00013	.00018	.01139	.00128
%RSD	363.92	32.738	8.5312	87.158	74.732
#1	-.00031	-.00029	-.00201	-.00502	-.00261
#2	.00070	-.00047	-.00227	-.02113	-.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 16:25:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**.00007**	**.00012**	**.17914**	**.00035**
Stddev	.00109	.00001	.00015	.00549	.00030
%RSD	96.269	12.269	122.89	3.0643	84.403
#1	-.00036	.00007	.00002	.18302	.00057
#2	-.00190	.00008	.00023	.17525	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00696**	**.00091**	**-.00024**	**.01106**
Stddev	.00076	.00019	.00056	.00018	.00107
%RSD	126.98	2.7877	61.451	77.895	9.7029
#1	.00113	.00710	.00131	-.00037	.01181
#2	.00006	.00682	.00052	-.00011	.01030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00003**	**.00040**	**.00115**	**-.00002**
Stddev	.00032	.00002	.00015	.00037	.00022
%RSD	2117.2	55.756	38.098	32.337	1199.5
#1	.00021	.00002	.00029	.00141	-.00017
#2	-.00024	.00004	.00051	.00089	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 16:25:59 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00022
Stddev	.00017
%RSD	74.990
#1	.00034
#2	.00011
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3722.8	2389.2	17050.	3110.6
Stddev	.1	2.8	74.	5.9
%RSD	.00402	.11802	.43290	.18831
#1	3722.7	2387.2	16998.	3106.5
#2	3722.9	2391.2	17102.	3114.8

Sample Name: CCVL-4147888 Acquired: 7/27/2017 16:29:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00557**	**.19766**	**.01480**	**.01944**	**.00203**
Stddev	.00001	.00285	.00073	.00002	.00004
%RSD	.25299	1.4437	4.9506	.10451	1.9659
#1	.00558	.19564	.01532	.01946	.00200
#2	.00556	.19968	.01429	.01943	.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.48777**	**.00207**	**.0144**	**.00400**
Stddev	.00010	.00262	.00002	.0047	.00007
%RSD	5.0543	.53697	1.1658	32.59	1.7130
#1	.00196	.48592	.00208	.0111	.00405
#2	.00211	.48962	.00205	.0177	.00396
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00452**	**.00826**	**.04811**	**.52627**	**.02875**
Stddev	.00074	.00068	.00413	.01583	.00037
%RSD	16.406	8.1730	8.5860	3.0072	1.2794
#1	.00399	.00874	.04519	.51508	.02901
#2	.00504	.00778	.05103	.53746	.02849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 16:29:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20086**	**.00309**	**.01002**	**1.1258**	**.00950**
Stddev	.00124	.00007	.00004	.0071	.00057
%RSD	.61853	2.1666	.37951	.63380	5.9481
#1	.19998	.00304	.00999	1.1208	.00990
#2	.20174	.00313	.01005	1.1309	.00910
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00969**	**.19678**	**.02036**	**.02413**	**.49674**
Stddev	.00114	.00412	.00019	.00127	.00399
%RSD	11.739	2.0950	.92838	5.2454	.80243
#1	.00889	.19386	.02023	.02502	.49393
#2	.01050	.19969	.02049	.02323	.49956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00937**	**.00487**	**.00497**	**.02153**	**.00470**
Stddev	.00030	.00010	.00032	.00170	.00033
%RSD	3.2501	2.0836	6.3393	7.8905	7.0774
#1	.00958	.00480	.00475	.02273	.00447
#2	.00915	.00495	.00519	.02033	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 16:29:24 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01089
Stddev	.00105
%RSD	9.6459
#1	.01164
#2	.01015
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3747.0	2415.7	17170.	3112.1
Stddev	5.3	1.5	99.	17.2
%RSD	.14134	.06320	.57649	.55410
#1	3750.8	2416.8	17240.	3124.2
#2	3743.3	2414.6	17100.	3099.9

Sample Name: mb 480-368849/1-a Acquired: 7/27/2017 16:32:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.00266**	**.00312**	**.00072**	**.00028**
Stddev	.00035	.00711	.00127	.00017	.00000
%RSD	59.346	266.88	40.721	24.163	.34880
#1	-.00084	-.00769	.00402	.00084	.00028
#2	-.00035	.00236	.00222	.00060	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.04152**	**.00023**	**.0062**	**.00006**
Stddev	.00002	.00023	.00005	.0089	.00002
%RSD	51.086	.54501	21.381	143.6	32.496
#1	.00003	.04168	.00027	.0126	.00008
#2	.00006	.04136	.00020	-.0001	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**-.00029**	**.01334**	**.01345**	**-.00151**
Stddev	.00022	.00042	.00265	.03322	.00032
%RSD	28.303	144.47	19.884	246.92	21.138
#1	.00061	-.00059	.01147	-.01004	-.00128
#2	.00092	.00001	.01522	.03694	-.00173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-368849/1-a Acquired: 7/27/2017 16:32:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**.00116**	**.00002**	**.16743**	**.00075**
Stddev	.00245	.00012	.00015	.00166	.00023
%RSD	181.13	10.466	780.53	.99176	31.116
#1	.00309	.00108	.00013	.16626	.00059
#2	-.00038	.00125	-.00009	.16861	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.01667**	**.00134**	**.00044**	**.29402**
Stddev	.00035	.00078	.00007	.00288	.01247
%RSD	173.72	4.6567	5.3629	649.14	4.2406
#1	.00045	.01722	.00139	-.00159	.30284
#2	-.00005	.01612	.00129	.00248	.28521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04704**	**.00020**	**.00106**	**.00098**	**-.00041**
Stddev	.00070	.00001	.00044	.00048	.00019
%RSD	1.4916	3.9614	41.759	49.433	45.362
#1	.04654	.00020	.00138	.00063	-.00054
#2	.04753	.00019	.00075	.00132	-.00028
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: mb 480-368849/1-a Acquired: 7/27/2017 16:32:48 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00160
Stddev	.00048
%RSD	30.235
#1	.00195
#2	.00126
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3769.8	2391.8	17271.	3148.1
Stddev	5.3	2.9	67.	2.7
%RSD	.14092	.12310	.39073	.08683
#1	3773.5	2393.9	17319.	3146.2
#2	3766.0	2389.7	17224.	3150.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.84%	99.483%	100.71%	101.31%
Range				

Sample Name: lcssrm 480-368849/2- Acquired: 7/27/2017 16:36:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F .51399	F 93.408	F 1.8266	F .65192	F 3.5456
Stddev	.00227	.241	.0048	.00005	.0308
%RSD	.44199	.25808	.26180	.00770	.86932
#1	.51238	93.237	1.8299	.65189	3.5238
#2	.51559	93.578	1.8232	.65196	3.5674
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.05750	11.500	.23000	.23000	.23000
Low Limit	.04250	8.5000	.17000	.17000	.17000

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F .92983	F 51.751	F 1.0532	1.370	F 1.9399
Stddev	.00303	.198	.0004	.005	.0013
%RSD	.32589	.38292	.04302	.4044	.06648
#1	.92769	51.611	1.0535	1.366	1.9408
#2	.93197	51.891	1.0529	1.373	1.9389
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
High Limit	.23000	11.500	.23000		.23000
Low Limit	.17000	8.5000	.17000		.17000

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F .66637	F .70778	F 141.68	F 28.127	F .07127
Stddev	.00037	.00173	.85	.213	.00148
%RSD	.05579	.24487	.60092	.75877	2.0799
#1	.66664	.70901	141.07	27.976	.07232
#2	.66611	.70656	142.28	28.278	.07022
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.23000	.23000	11.500	11.500	12.000
Low Limit	.17000	.17000	8.5000	8.5000	.17000

Sample Name: lcssrm 480-368849/2- Acquired: 7/27/2017 16:36:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **27.819**	F **3.8109**	F **.55255**	F **5.7809**	F **1.7796**
Stddev	.095	.0070	.00052	.0400	.0004
%RSD	.34153	.18294	.09461	.69145	.02164
#1	27.752	3.8060	.55292	5.7527	1.7799
#2	27.887	3.8158	.55218	5.8092	1.7794
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	11.500	.23000	.23000	11.500	.23000
Low Limit	8.5000	.17000	.17000	8.5000	.17000

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.75547**	F **1.3163**	F **.64724**	F **.91603**	F **4.4233**
Stddev	.00097	.0035	.00261	.00548	.0093
%RSD	.12902	.26833	.40248	.59861	.20967
#1	.75616	1.3188	.64908	.91991	4.4168
#2	.75478	1.3138	.64540	.91215	4.4299
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.23000	11.500	.23000	.23000	11.500
Low Limit	.17000	8.5000	.17000	.17000	8.5000

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.93144**	F **1.3059**	F **4.2683**	F **1.4346**	F **1.4066**
Stddev	.00027	.0117	.0066	.0006	.0014
%RSD	.02903	.89392	.15362	.04165	.09874
#1	.93125	1.2976	4.2637	1.4350	1.4056
#2	.93163	1.3141	4.2729	1.4341	1.4076
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.23000	.23000	.23000	.23000	.23000
Low Limit	.17000	.17000	.17000	.17000	.17000

Sample Name: lcssrm 480-368849/2- Acquired: 7/27/2017 16:36:13 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **2.9088**
Stddev	.0099
%RSD	.34110
#1	2.9018
#2	2.9158
Check ?	Chk Fail
High Limit	.23000
Low Limit	.17000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3248.0**	**2694.7**	**18991.**	**3631.7**
Stddev	4.2	2.2	38.	23.6
%RSD	.13030	.08067	.20164	.64899
#1	3251.0	2696.2	18964.	3648.3
#2	3245.0	2693.1	19018.	3615.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.887%	112.08%	110.74%	116.87%
Range				

Sample Name: 480-121538-a-1-b Acquired: 7/27/2017 16:39:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00216**	**79.976**	**.04795**	**.03143**	**.70201**
Stddev	.00001	.241	.00198	.00041	.00052
%RSD	.58111	.30179	4.1235	1.3110	.07464
#1	-.00217	80.147	.04655	.03114	.70238
#2	-.00216	79.806	.04935	.03172	.70164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00346**	**70.277**	**.00175**	**.4272**	**.06155**
Stddev	.00000	.089	.00002	.0258	.00024
%RSD	.00363	.12632	1.1682	6.039	.39280
#1	.00346	70.339	.00177	.4089	.06138
#2	.00346	70.214	.00174	.4454	.06172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14051**	**.41079**	**153.69**	**7.0684**	**.06737**
Stddev	.00049	.00328	.28	.0298	.00203
%RSD	.34732	.79748	.18113	.42173	3.0122
#1	.14086	.41311	153.89	7.0473	.06594
#2	.14017	.40848	153.50	7.0894	.06881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-1-b Acquired: 7/27/2017 16:39:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.134**	**2.6188**	**.00371**	**1.3763**	**.12526**
Stddev	.011	.0016	.00006	.0151	.00051
%RSD	.03910	.06269	1.6841	1.0988	.40451
#1	29.126	2.6176	.00376	1.3870	.12490
#2	29.142	2.6200	.00367	1.3656	.12561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0369**	**3.5314**	**.00307**	**.00361**	**1.9847**
Stddev	.0006	.0054	.00194	.00231	.0309
%RSD	.05979	.15229	63.272	63.939	1.5595
#1	1.0373	3.5276	.00444	.00524	1.9629
#2	1.0364	3.5352	.00169	.00198	2.0066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09034**	**.24833**	**3.3854**	**-.00322**	**.34166**
Stddev	.00087	.00065	.0010	.00193	.00120
%RSD	.96421	.26329	.02983	59.960	.35126
#1	.08973	.24879	3.3861	-.00458	.34081
#2	.09096	.24786	3.3847	-.00185	.34250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-1-b Acquired: 7/27/2017 16:39:25 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0239**
Stddev	.0013
%RSD	.12747
#1	1.0230
#2	1.0249
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3301.8**	**2612.8**	**18373.**	**3535.1**
Stddev	2.7	.3	12.	5.6
%RSD	.08306	.01234	.06541	.15873
#1	3303.7	2612.6	18382.	3539.0
#2	3299.8	2613.1	18365.	3531.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.324%	108.68%	107.14%	113.76%
Range				

Sample Name: 480-121538-a-2-b Acquired: 7/27/2017 16:42:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00201**	**83.559**	**.04780**	**.03315**	**.77479**
Stddev	.00043	.095	.00254	.00025	.00049
%RSD	21.273	.11414	5.3056	.76170	.06342
#1	-.00171	83.627	.04600	.03297	.77444
#2	-.00232	83.492	.04959	.03332	.77514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00383**	**69.488**	**.00254**	**.3931**	**.05024**
Stddev	.00004	.085	.00022	.0007	.00010
%RSD	1.0370	.12189	8.5999	.1738	.19535
#1	.00380	69.548	.00270	.3936	.05017
#2	.00386	69.428	.00239	.3927	.05030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14820**	**.33311**	**140.68**	**7.7777**	**.07579**
Stddev	.00064	.00058	.24	.0260	.00087
%RSD	.43241	.17412	.16727	.33385	1.1514
#1	.14865	.33352	140.85	7.7593	.07641
#2	.14774	.33270	140.52	7.7960	.07518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-2-b Acquired: 7/27/2017 16:42:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.944**	**3.0506**	**.00412**	**1.2083**	**.12913**
Stddev	.011	.0001	.00019	.0069	.00060
%RSD	.03547	.00412	4.6917	.57018	.46214
#1	29.952	3.0505	.00426	1.2034	.12955
#2	29.937	3.0507	.00398	1.2132	.12870
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0655**	**3.6721**	**.00252**	**.00050**	**2.4009**
Stddev	.0014	.0093	.00321	.00216	.0258
%RSD	.13368	.25284	127.54	431.39	1.0749
#1	1.0645	3.6787	.00025	-.00103	2.4192
#2	1.0665	3.6655	.00479	.00203	2.3827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10236**	**.25265**	**3.3144**	**-.00387**	**.28445**
Stddev	.00052	.00041	.0058	.00007	.00008
%RSD	.50531	.16144	.17472	1.7358	.02835
#1	.10273	.25294	3.3185	-.00392	.28451
#2	.10199	.25236	3.3104	-.00383	.28439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-2-b Acquired: 7/27/2017 16:42:46 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1955**
Stddev	.0058
%RSD	.48794
#1	1.1914
#2	1.1997
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3317.7**	**2591.0**	**18265.**	**3448.5**
Stddev	8.7	10.1	58.	3.8
%RSD	.26223	.39146	.31989	.10929
#1	3323.8	2598.1	18224.	3451.2
#2	3311.5	2583.8	18306.	3445.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.750%	107.77%	106.51%	110.98%
Range				

Sample Name: 480-121538-a-3-b Acquired: 7/27/2017 16:46:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00233**	**26.788**	**.02282**	**.02475**	**.08158**
Stddev	.00014	.009	.00153	.00012	.00011
%RSD	6.2303	.03195	6.6925	.47682	.13355
#1	-.00243	26.781	.02174	.02483	.08166
#2	-.00222	26.794	.02390	.02466	.08150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**300.10**	**.00075**	**.2824**	**.03267**
Stddev	.00011	2.75	.00010	.0137	.00035
%RSD	5.6099	.91713	13.474	4.833	1.0669
#1	.00190	302.05	.00068	.2921	.03291
#2	.00206	298.15	.00083	.2728	.03242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06149**	**.07158**	**70.671**	**12.485**	**.02668**
Stddev	.00088	.00021	.398	.122	.00021
%RSD	1.4336	.29660	.56255	.97867	.76987
#1	.06087	.07143	70.952	12.571	.02654
#2	.06212	.07173	70.390	12.398	.02683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-3-b Acquired: 7/27/2017 16:46:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**184.99**	**1.6619**	**.00258**	**2.1275**	**.09330**
Stddev	.50	.0057	.00014	.0160	.00015
%RSD	.26963	.34490	5.5301	.75103	.16330
#1	184.63	1.6579	.00248	2.1388	.09341
#2	185.34	1.6660	.00268	2.1162	.09320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05434**	**16.086**	**-.00051**	**-.00199**	**1.4972**
Stddev	.00085	.034	.00067	.00131	.0113
%RSD	1.5567	.21250	130.83	65.648	.75349
#1	.05494	16.062	-.00004	-.00107	1.4892
#2	.05375	16.111	-.00098	-.00291	1.5052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05325**	**.20905**	**2.2448**	**-.00169**	**.35290**
Stddev	.00002	.00171	.0113	.00085	.00179
%RSD	.03401	.81959	.50427	50.400	.50842
#1	.05324	.21027	2.2368	-.00109	.35163
#2	.05327	.20784	2.2528	-.00229	.35417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-3-b Acquired: 7/27/2017 16:46:07 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.12590**
Stddev	.00057
%RSD	.45597
#1	.12549
#2	.12630
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3024.9**	**2392.9**	**17120.**	**3361.2**
Stddev	.6	.6	87.	24.5
%RSD	.02148	.02511	.50981	.72801
#1	3024.5	2393.4	17182.	3343.9
#2	3025.4	2392.5	17058.	3378.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.918%	99.531%	99.830%	108.17%
Range				

Sample Name: 480-121538-a-4-b Acquired: 7/27/2017 16:49:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00159**	**7.5867**	**.01838**	**.03605**	**.03369**
Stddev	.00049	.0708	.00060	.00001	.00000
%RSD	30.849	.93322	3.2597	.01884	.00367
#1	-.00194	7.6368	.01795	.03605	.03369
#2	-.00125	7.5366	.01880	.03604	.03369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	F **1012.9**	**.00060**	**.0881**	**.00991**
Stddev	.00011	4.9	.00016	.0005	.00016
%RSD	12.677	.48420	26.484	.5444	1.6127
#1	.00096	1016.4	.00049	.0884	.00980
#2	.00080	1009.5	.00071	.0877	.01003
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03801**	**.02297**	**21.179**	**4.9787**	**-.02042**
Stddev	.00057	.00089	.133	.0383	.00064
%RSD	1.5108	3.8928	.63007	.76867	3.1397
#1	.03760	.02234	21.273	5.0058	-.02088
#2	.03842	.02361	21.084	4.9517	-.01997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-4-b Acquired: 7/27/2017 16:49:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **648.93**	**.76814**	**.00258**	**1.4460**	**.04711**
Stddev	2.59	.00233	.00018	.0089	.00047
%RSD	.39901	.30340	6.9885	.61883	.99194
#1	647.10	.76650	.00245	1.4524	.04744
#2	650.76	.76979	.00270	1.4397	.04678
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	450.00				
Low Limit	-.20000				

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02426**	**13.585**	**.00038**	**-.00430**	**1.5561**
Stddev	.00119	.016	.00176	.00148	.0175
%RSD	4.8923	.11777	469.71	34.500	1.1214
#1	.02342	13.574	.00162	-.00325	1.5438
#2	.02510	13.596	-.00087	-.00535	1.5684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03930**	**.38455**	**.20787**	**.00123**	**.23011**
Stddev	.00085	.00212	.00056	.00128	.00025
%RSD	2.1757	.55226	.27165	104.40	.10703
#1	.03869	.38605	.20827	.00213	.22994
#2	.03990	.38305	.20747	.00032	.23029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-4-b Acquired: 7/27/2017 16:49:31 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07751
Stddev	.00010
%RSD	.13400
#1	.07758
#2	.07744
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2659.8	2062.5	14866.	3026.2
Stddev	1.9	7.6	7.	19.4
%RSD	.06965	.36825	.04933	.63964
#1	2661.1	2067.8	14871.	3012.5
#2	2658.5	2057.1	14860.	3039.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.151%	85.785%	86.684%	97.387%
Range				

Sample Name: 480-121538-a-5-b Acquired: 7/27/2017 16:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00100**	**101.68**	**.04686**	**.05333**	**1.3134**
Stddev	.00044	.14	.00308	.00055	.0008
%RSD	43.800	.14054	6.5737	1.0310	.06208
#1	-.00069	101.78	.04468	.05372	1.3140
#2	-.00131	101.58	.04904	.05294	1.3128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00445**	**154.00**	**.00273**	**.4878**	**.08050**
Stddev	.00005	.06	.00006	.0339	.00032
%RSD	1.1661	.04055	2.3156	6.956	.40312
#1	.00442	153.95	.00278	.4638	.08073
#2	.00449	154.04	.00269	.5118	.08027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35568**	**.38179**	**151.69**	**20.570**	**.11055**
Stddev	.00061	.00088	.28	.028	.00036
%RSD	.17154	.23090	.18277	.13798	.32372
#1	.35525	.38117	151.49	20.590	.11030
#2	.35611	.38242	151.88	20.550	.11081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-5-b Acquired: 7/27/2017 16:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.394**	**2.7512**	**.00543**	**2.7819**	**.29676**
Stddev	.140	.0103	.00008	.0038	.00076
%RSD	.17667	.37295	1.5227	.13788	.25658
#1	79.295	2.7439	.00549	2.7846	.29730
#2	79.493	2.7584	.00537	2.7792	.29622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8103**	**6.6094**	**.00107**	**-.00079**	**4.0192**
Stddev	.0061	.0038	.00018	.00033	.0097
%RSD	.33684	.05788	16.661	41.947	.24195
#1	1.8146	6.6121	.00119	-.00103	4.0260
#2	1.8059	6.6067	.00094	-.00056	4.0123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11883**	**.35494**	**5.3819**	**-.00466**	**.36348**
Stddev	.00023	.00023	.0277	.00365	.00234
%RSD	.19145	.06470	.51507	78.272	.64484
#1	.11899	.35510	5.3623	-.00208	.36182
#2	.11867	.35478	5.4015	-.00724	.36514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-5-b Acquired: 7/27/2017 16:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.6411**
Stddev	.0100
%RSD	.60665
#1	1.6341
#2	1.6482
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3094.9**	**2523.3**	**17837.**	**3464.3**
Stddev	9.9	6.9	42.	6.6
%RSD	.32025	.27233	.23431	.19143
#1	3087.9	2518.4	17867.	3469.0
#2	3101.9	2528.1	17808.	3459.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.791%	104.95%	104.01%	111.49%
Range				

Sample Name: 480-121538-a-6-b Acquired: 7/27/2017 16:56:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**83.895**	**.04339**	**.03704**	**.98106**
Stddev	.00056	.304	.00119	.00004	.00248
%RSD	32.573	.36291	2.7473	.12136	.25236
#1	.00210	84.110	.04423	.03707	.97931
#2	.00131	83.679	.04255	.03701	.98281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00388**	**114.46**	**.00222**	**.4065**	**.06109**
Stddev	.00000	.07	.00012	.0110	.00005
%RSD	.05322	.05773	5.4351	2.700	.08754
#1	.00388	114.51	.00230	.4142	.06105
#2	.00387	114.42	.00213	.3987	.06113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21411**	**.28786**	**125.79**	**13.318**	**.08145**
Stddev	.00023	.00011	.01	.021	.00179
%RSD	.10897	.03700	.00956	.15968	2.1983
#1	.21395	.28779	125.80	13.303	.08019
#2	.21428	.28794	125.78	13.333	.08272
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-6-b Acquired: 7/27/2017 16:56:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.539**	**2.3278**	**.00377**	**2.4550**	**.21923**
Stddev	.036	.0038	.00007	.0030	.00070
%RSD	.07661	.16302	1.9039	.12279	.32087
#1	47.513	2.3305	.00372	2.4572	.21874
#2	47.564	2.3251	.00382	2.4529	.21973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3795**	**3.6194**	**.00043**	**.00208**	**4.4960**
Stddev	.0028	.0023	.00155	.00098	.0511
%RSD	.20037	.06245	358.18	47.005	1.1368
#1	1.3776	3.6178	-.00066	.00277	4.5321
#2	1.3815	3.6210	.00153	.00139	4.4599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09658**	**.30011**	**4.2521**	**-.00346**	**.27385**
Stddev	.00054	.00109	.0054	.00050	.00082
%RSD	.56084	.36154	.12766	14.420	.29875
#1	.09620	.29934	4.2559	-.00382	.27328
#2	.09696	.30088	4.2482	-.00311	.27443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-6-b Acquired: 7/27/2017 16:56:22 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1080**
Stddev	.0023
%RSD	.20981
#1	1.1063
#2	1.1096
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3206.5**	**2521.8**	**17886.**	**3404.0**
Stddev	1.8	1.5	19.	4.8
%RSD	.05516	.05909	.10475	.14167
#1	3207.7	2522.9	17873.	3400.6
#2	3205.2	2520.8	17899.	3407.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.776%	104.89%	104.30%	109.55%
Range				

Sample Name: 480-121538-a-7-b Acquired: 7/27/2017 16:59:42 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00221**	**91.405**	**.03661**	**.02433**	**.84681**
Stddev	.00067	.354	.00142	.00045	.00121
%RSD	30.148	.38770	3.8764	1.8374	.14301
#1	-.00268	91.154	.03560	.02401	.84595
#2	-.00174	91.655	.03761	.02464	.84766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**31.175**	**.00080**	**.5541**	**.05884**
Stddev	.00008	.046	.00013	.0086	.00016
%RSD	2.1324	.14900	15.713	1.553	.27876
#1	.00391	31.142	.00089	.5602	.05872
#2	.00403	31.208	.00071	.5480	.05895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20026**	**.19152**	**129.53**	**8.5292**	**.06965**
Stddev	.00064	.00008	.47	.0031	.00168
%RSD	.31958	.04240	.36210	.03640	2.4094
#1	.19981	.19146	129.20	8.5314	.07083
#2	.20071	.19158	129.86	8.5270	.06846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-7-b Acquired: 7/27/2017 16:59:42 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.888**	**2.5619**	**.00180**	**1.1163**	**.19551**
Stddev	.106	.0174	.00001	.0084	.00032
%RSD	.53086	.67826	.69028	.75004	.16192
#1	19.814	2.5496	.00179	1.1104	.19529
#2	19.963	2.5742	.00180	1.1222	.19574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.90972**	**2.7089**	**-.00127**	**.00032**	**3.7410**
Stddev	.00059	.0022	.00205	.00432	.0776
%RSD	.06481	.08289	161.62	1329.8	2.0751
#1	.91014	2.7104	-.00272	.00338	3.6861
#2	.90930	2.7073	.00018	-.00273	3.7959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06753**	**.18656**	**3.8368**	**-.00495**	**.24618**
Stddev	.00043	.00108	.0225	.00032	.00009
%RSD	.63829	.58048	.58638	6.5712	.03627
#1	.06723	.18579	3.8209	-.00472	.24624
#2	.06784	.18733	3.8527	-.00518	.24611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-7-b Acquired: 7/27/2017 16:59:42 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.78102
Stddev	.00624
%RSD	.79849
#1	.77661
#2	.78543
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3341.9	2650.5	18791.	3505.7
Stddev	1.1	3.4	111.	5.6
%RSD	.03167	.12732	.59289	.16039
#1	3341.1	2648.1	18870.	3509.7
#2	3342.6	2652.8	18712.	3501.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.398%	110.24%	109.57%	112.82%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:03:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51733**	**24.808**	**.50116**	**.50045**	**.49333**
Stddev	.00132	.150	.00084	.00106	.00200
%RSD	.25539	.60537	.16773	.21169	.40473
#1	.51639	24.914	.50175	.49970	.49474
#2	.51826	24.702	.50056	.50120	.49191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49605**	**24.498**	**.49916**	**.0087**	**.49284**
Stddev	.00383	.116	.00019	.0090	.00029
%RSD	.77111	.47476	.03709	103.7	.05878
#1	.49875	24.580	.49929	.0023	.49305
#2	.49334	24.416	.49903	.0151	.49264
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51663**	**.49561**	**23.628**	**24.754**	**.50358**
Stddev	.00327	.00374	.122	.107	.00445
%RSD	.63315	.75366	.51715	.43256	.88352
#1	.51894	.49826	23.714	24.829	.50673
#2	.51432	.49297	23.541	24.678	.50043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:03:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.044**	**.51401**	**.50867**	**24.900**	**.49872**
Stddev	.056	.00171	.00006	.187	.00002
%RSD	.22303	.33348	.01187	.75273	.00415
#1	25.084	.51522	.50871	25.033	.49871
#2	25.005	.51280	.50863	24.767	.49874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49914**	**24.816**	**.49850**	**.50647**	**23.713**
Stddev	.00075	.014	.00017	.00186	.116
%RSD	.15023	.05831	.03408	.36676	.48851
#1	.49967	24.805	.49862	.50516	23.795
#2	.49861	24.826	.49838	.50778	23.631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50474**	**.48324**	**.49789**	**.49503**	**.52094**
Stddev	.00067	.00386	.00242	.00134	.00083
%RSD	.13205	.79970	.48520	.27162	.15998
#1	.50427	.48597	.49959	.49598	.52153
#2	.50521	.48051	.49618	.49408	.52035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:03:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51729**
Stddev	.00107
%RSD	.20597
#1	.51805
#2	.51654
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3417.2**	**2376.2**	**16558.**	**3101.9**
Stddev	1.1	3.2	39.	26.5
%RSD	.03211	.13403	.23716	.85464
#1	3418.0	2378.4	16530.	3083.1
#2	3416.4	2373.9	16585.	3120.6

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:06:11 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.00156**	**-.00020**	**-.00032**	**.00002**
Stddev	.00026	.01875	.00278	.00034	.00001
%RSD	106.93	1199.8	1411.8	105.12	57.610
#1	-.00043	-.01169	-.00216	-.00008	.00001
#2	-.00006	.01482	.00177	-.00057	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.00716**	**-.00003**	**.0085**	**.00007**
Stddev	.00004	.00152	.00024	.0107	.00006
%RSD	54.557	21.183	730.90	124.9	85.368
#1	.00004	.00609	.00014	.0161	.00003
#2	.00009	.00824	-.00020	.0010	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00039**	**.00188**	**-.00172**	**-.00046**
Stddev	.00039	.00021	.00132	.02612	.00125
%RSD	160.20	54.495	70.577	1517.4	273.55
#1	-.00003	-.00024	.00094	.01675	-.00134
#2	.00052	-.00054	.00281	-.02019	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:06:11 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.00011**	**-.00014**	**.06327**	**.00019**
Stddev	.00201	.00001	.00013	.00748	.00021
%RSD	316.86	8.6640	90.760	11.827	106.18
#1	.00079	.00011	-.00024	.05798	.00034
#2	-.00205	.00010	-.00005	.06856	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00935**	**.00040**	**-.00129**	**.01412**
Stddev	.00011	.00140	.00310	.00410	.02007
%RSD	40.014	14.952	783.08	317.76	142.09
#1	.00021	.00836	-.00180	-.00419	-.00007
#2	.00037	.01034	.00259	.00161	.02831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00008**	**.00032**	**.00190**	**-.00003**
Stddev	.00007	.00001	.00004	.00009	.00010
%RSD	14.782	12.993	12.864	4.5397	391.32
#1	-.00052	.00009	.00035	.00196	.00005
#2	-.00042	.00007	.00029	.00183	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:06:11 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00002**
Stddev	.00069
%RSD	4221.6
#1	.00047
#2	-.00050
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3757.3**	**2410.7**	**17154.**	**3072.2**
Stddev	5.0	2.7	96.	6.7
%RSD	.13218	.11189	.55848	.21730
#1	3760.8	2412.6	17087.	3076.9
#2	3753.8	2408.8	17222.	3067.5

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:09:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.18134**	**.01770**	**.01967**	**.00202**
Stddev	.00176	.00716	.00071	.00022	.00001
%RSD	30.813	3.9504	3.9910	1.1145	.30826
#1	.00695	.17628	.01720	.01952	.00202
#2	.00446	.18641	.01820	.01983	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.48913**	**.00225**	**.0372**	**.00412**
Stddev	.00006	.00042	.00001	.0082	.00012
%RSD	2.8226	.08575	.53533	22.09	2.8754
#1	.00216	.48884	.00226	.0430	.00420
#2	.00207	.48943	.00224	.0314	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**.00864**	**.05035**	**.47792**	**.02817**
Stddev	.00013	.00001	.00485	.01533	.00205
%RSD	2.6198	.07477	9.6359	3.2082	7.2832
#1	.00493	.00863	.04692	.46708	.02962
#2	.00475	.00864	.05378	.48876	.02672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:09:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19617**	**.00302**	**.00998**	**1.0528**	**.00972**
Stddev	.00088	.00005	.00008	.0076	.00030
%RSD	.44707	1.7827	.75198	.72549	3.0533
#1	.19555	.00298	.01003	1.0474	.00951
#2	.19679	.00306	.00993	1.0582	.00993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01060**	**.19862**	**.01967**	**.02266**	**.50628**
Stddev	.00056	.00127	.00020	.00101	.00797
%RSD	5.2871	.63726	1.0367	4.4581	1.5741
#1	.01100	.19772	.01952	.02337	.50065
#2	.01020	.19951	.01981	.02194	.51192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00910**	**.00476**	**.00529**	**.02165**	**.00454**
Stddev	.00003	.00015	.00001	.00172	.00003
%RSD	.27508	3.1611	.09811	7.9276	.66917
#1	.00908	.00466	.00528	.02044	.00452
#2	.00912	.00487	.00529	.02287	.00456
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:09:36 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01167
Stddev	.00001
%RSD	.12289
#1	.01166
#2	.01168
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3754.7	2421.8	17229.	3099.9
Stddev	6.3	5.0	27.	14.5
%RSD	.16719	.20533	.15855	.46797
#1	3750.2	2418.2	17210.	3110.2
#2	3759.1	2425.3	17248.	3089.7

Sample Name: 480-121538-a-8-b Acquired: 7/27/2017 17:13:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00098**	**104.07**	**.04754**	**.04361**	**1.1497**
Stddev	.00071	.12	.00157	.00038	.0027
%RSD	72.773	.11716	3.2938	.88053	.23696
#1	-.00148	103.98	.04865	.04388	1.1478
#2	-.00047	104.15	.04643	.04334	1.1517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00471**	**99.942**	**.00223**	**.5081**	**.07445**
Stddev	.00005	.380	.00009	.0080	.00020
%RSD	1.1284	.38011	3.9361	1.583	.27135
#1	.00467	99.673	.00217	.5024	.07459
#2	.00475	100.21	.00229	.5138	.07431
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22605**	**.33294**	**153.46**	**16.016**	**.10078**
Stddev	.00004	.00045	.23	.034	.00090
%RSD	.01574	.13525	.14691	.21422	.89145
#1	.22602	.33325	153.30	15.991	.10015
#2	.22607	.33262	153.62	16.040	.10142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-8-b Acquired: 7/27/2017 17:13:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.618**	**3.1378**	**.00679**	**2.1644**	**.25660**
Stddev	.107	.0088	.00023	.0005	.00023
%RSD	.24044	.28166	3.3316	.02452	.08865
#1	44.542	3.1316	.00663	2.1648	.25644
#2	44.693	3.1441	.00695	2.1640	.25676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5891**	**3.4602**	**.00137**	**-.00106**	**3.5514**
Stddev	.0021	.0101	.00228	.00245	.0204
%RSD	.13383	.29183	166.78	231.85	.57503
#1	1.5876	3.4530	.00298	.00068	3.5370
#2	1.5906	3.4673	-.00025	-.00279	3.5659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09702**	**.31026**	**5.0715**	**-.00525**	**.32033**
Stddev	.00041	.00094	.0219	.00023	.00093
%RSD	.41857	.30445	.43213	4.4508	.29056
#1	.09731	.30959	5.0560	-.00541	.31968
#2	.09673	.31092	5.0870	-.00508	.32099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-8-b Acquired: 7/27/2017 17:13:01 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.3220**
Stddev	.0019
%RSD	.14069
#1	1.3207
#2	1.3233
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3203.1**	**2599.7**	**18180.**	**3474.5**
Stddev	3.8	7.1	50.	19.4
%RSD	.12003	.27501	.27466	.55815
#1	3205.9	2604.7	18215.	3488.2
#2	3200.4	2594.6	18145.	3460.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.686%	108.13%	106.01%	111.82%
Range				

Sample Name: 480-121538-a-9-b Acquired: 7/27/2017 17:16:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**93.935**	**.04677**	**.04245**	**1.1897**
Stddev	.00039	.189	.00045	.00042	.0013
%RSD	40.833	.20155	.96762	.98231	.10800
#1	-.00068	94.069	.04709	.04215	1.1906
#2	-.00123	93.801	.04645	.04274	1.1887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**102.92**	**.00214**	**.4394**	**.06814**
Stddev	.00006	.04	.00001	.0160	.00019
%RSD	1.4609	.03693	.49867	3.642	.28418
#1	.00423	102.89	.00215	.4281	.06828
#2	.00414	102.95	.00213	.4507	.06801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23429**	**.30849**	**146.51**	**14.658**	**.09441**
Stddev	.00237	.00064	.40	.022	.00178
%RSD	1.0128	.20692	.27386	.14967	1.8858
#1	.23261	.30803	146.23	14.673	.09567
#2	.23596	.30894	146.79	14.642	.09315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-9-b Acquired: 7/27/2017 17:16:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.693**	**2.6996**	**.00405**	**1.8316**	**.25083**
Stddev	.419	.0247	.00005	.0159	.00116
%RSD	.81119	.91605	1.3523	.87074	.46405
#1	51.397	2.6822	.00409	1.8429	.25000
#2	51.990	2.7171	.00401	1.8203	.25165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3300**	**9.4490**	**.00209**	**.00170**	**4.2008**
Stddev	.0001	.0052	.00107	.00154	.0324
%RSD	.00488	.05488	51.351	90.759	.77065
#1	2.3301	9.4453	.00133	.00061	4.1779
#2	2.3299	9.4526	.00284	.00278	4.2237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09296**	**.27737**	**4.7111**	**-.00428**	**.30525**
Stddev	.00061	.00004	.0276	.00086	.00385
%RSD	.65724	.01281	.58585	20.162	1.2617
#1	.09253	.27739	4.6916	-.00367	.30253
#2	.09339	.27734	4.7306	-.00489	.30797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-9-b Acquired: 7/27/2017 17:16:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1916**
Stddev	.0163
%RSD	1.3673
#1	1.1801
#2	1.2031
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3206.2**	**2585.6**	**18065.**	**3500.6**
Stddev	5.9	2.3	197.	1.9
%RSD	.18426	.09033	1.0929	.05365
#1	3210.4	2587.2	18205.	3499.2
#2	3202.0	2583.9	17925.	3501.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.767%	107.54%	105.34%	112.65%
Range				

Sample Name: 480-121538-a-10-b Acquired: 7/27/2017 17:19:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00114	84.742	.04538	.04285	1.4795
Stddev	.00027	.175	.00208	.00010	.0058
%RSD	23.859	.20662	4.5819	.23459	.39425
#1	.00095	84.619	.04685	.04278	1.4836
#2	.00133	84.866	.04391	.04292	1.4754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00386	96.493	.00202	.4057	.05714
Stddev	.00002	.069	.00023	.0013	.00011
%RSD	.52716	.07148	11.350	.3273	.18878
#1	.00384	96.542	.00218	.4066	.05706
#2	.00387	96.444	.00185	.4048	.05721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.18561	.29638	137.52	13.028	.08493
Stddev	.00024	.00169	.34	.002	.00090
%RSD	.12981	.56988	.24888	.01826	1.0570
#1	.18544	.29519	137.76	13.030	.08556
#2	.18578	.29758	137.28	13.026	.08429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-10-b Acquired: 7/27/2017 17:19:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.083**	**2.4234**	**.00307**	**1.9770**	**.21593**
Stddev	.122	.0099	.00027	.0032	.00009
%RSD	.29642	.40892	8.9059	.15968	.04383
#1	40.997	2.4164	.00326	1.9792	.21599
#2	41.169	2.4305	.00287	1.9747	.21586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6890**	**3.1344**	**.00247**	**.00077**	**4.6058**
Stddev	.0021	.0013	.00161	.00530	.0783
%RSD	.12138	.04227	64.937	686.46	1.7010
#1	1.6876	3.1335	.00361	-.00298	4.6612
#2	1.6905	3.1353	.00134	.00452	4.5504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09082**	**.29191**	**4.1821**	**-.00410**	**.29261**
Stddev	.00041	.00175	.0144	.00080	.00095
%RSD	.44666	.60073	.34357	19.512	.32331
#1	.09111	.29315	4.1719	-.00353	.29195
#2	.09054	.29067	4.1922	-.00466	.29328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-10-b Acquired: 7/27/2017 17:19:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.2119**
Stddev	.0032
%RSD	.26260
#1	1.2096
#2	1.2141
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3243.5**	**2546.5**	**17864.**	**3375.1**
Stddev	.4	3.5	52.	11.7
%RSD	.01166	.13571	.29365	.34801
#1	3243.2	2544.1	17901.	3366.8
#2	3243.7	2549.0	17827.	3383.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.765%	105.92%	104.17%	108.62%
Range				

Sample Name: 480-121538-a-11-b Acquired: 7/27/2017 17:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**83.538**	**.04571**	**.06298**	**.92476**
Stddev	.00080	.571	.00034	.00075	.00497
%RSD	102.56	.68383	.75360	1.1966	.53771
#1	-.00022	83.135	.04595	.06245	.92124
#2	-.00135	83.942	.04547	.06351	.92827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00373**	**138.81**	**.00232**	**.4399**	**.05433**
Stddev	.00006	.65	.00017	.0146	.00010
%RSD	1.5145	.46715	7.1858	3.323	.18428
#1	.00377	138.35	.00244	.4296	.05440
#2	.00369	139.26	.00221	.4502	.05426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18401**	**.34830**	**119.14**	**12.651**	**.07980**
Stddev	.00084	.00239	.53	.041	.00037
%RSD	.45491	.68529	.44397	.32151	.45800
#1	.18341	.34999	118.76	12.622	.07954
#2	.18460	.34662	119.51	12.679	.08006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-11-b Acquired: 7/27/2017 17:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.540**	**2.1389**	**.00444**	**3.0535**	**.17734**
Stddev	.044	.0049	.00036	.0081	.00070
%RSD	.11916	.22862	8.0119	.26489	.39637
#1	36.509	2.1354	.00469	3.0478	.17784
#2	36.570	2.1423	.00419	3.0592	.17684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0148**	**4.2621**	**.00246**	**-.00093**	**9.1089**
Stddev	.0025	.0020	.00176	.00379	.0698
%RSD	.12224	.04636	71.626	408.71	.76646
#1	2.0130	4.2635	.00121	-.00361	9.0595
#2	2.0165	4.2607	.00370	.00175	9.1583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.17480**	**.43476**	**3.9252**	**-.00418**	**.24914**
Stddev	.00086	.00275	.0003	.00163	.00080
%RSD	.49101	.63236	.00833	38.969	.32089
#1	.17541	.43282	3.9255	-.00534	.24857
#2	.17419	.43671	3.9250	-.00303	.24970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-11-b Acquired: 7/27/2017 17:22:59 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1952**
Stddev	.0003
%RSD	.02258
#1	1.1951
#2	1.1954
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3194.8**	**2508.2**	**17616.**	**3416.9**
Stddev	3.9	4.8	22.	1.4
%RSD	.12122	.18983	.12241	.04012
#1	3197.6	2511.6	17631.	3417.8
#2	3192.1	2504.8	17601.	3415.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.464%	104.33%	102.72%	109.96%
Range				

Sample Name: 480-121538-a-13-b Acquired: 7/27/2017 17:26:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00304**	**79.686**	**.05459**	**.02431**	**.70230**
Stddev	.00072	.154	.00159	.00034	.00079
%RSD	23.671	.19333	2.9210	1.4065	.11239
#1	-.00355	79.795	.05572	.02455	.70286
#2	-.00253	79.577	.05346	.02407	.70174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**93.060**	**.00227**	**.6458**	**.05182**
Stddev	.00007	.077	.00007	.0133	.00020
%RSD	1.4527	.08227	3.1789	2.053	.37665
#1	.00496	93.114	.00222	.6552	.05196
#2	.00506	93.005	.00232	.6365	.05168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15202**	**.27200**	**162.10**	**7.0627**	**.07154**
Stddev	.00031	.00037	.40	.0231	.00041
%RSD	.20426	.13431	.24485	.32636	.57280
#1	.15181	.27226	161.82	7.0790	.07183
#2	.15224	.27174	162.38	7.0464	.07125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-13-b Acquired: 7/27/2017 17:26:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.237**	**2.5850**	**.00355**	**1.0264**	**.12535**
Stddev	.026	.0005	.00010	.0122	.00010
%RSD	.06079	.02036	2.6930	1.1862	.07742
#1	42.256	2.5854	.00349	1.0350	.12542
#2	42.219	2.5847	.00362	1.0178	.12528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0295**	**2.5653**	**-.00085**	**.00085**	**3.1798**
Stddev	.0024	.0074	.00045	.00177	.0119
%RSD	.23524	.28696	52.945	207.99	.37455
#1	1.0312	2.5706	-.00053	-.00040	3.1714
#2	1.0277	2.5601	-.00116	.00210	3.1883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08721**	**.26375**	**2.9583**	**-.00502**	**.24005**
Stddev	.00037	.00044	.0019	.00165	.00071
%RSD	.42328	.16658	.06339	32.855	.29577
#1	.08747	.26406	2.9569	-.00385	.24055
#2	.08695	.26344	2.9596	-.00619	.23955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-13-b Acquired: 7/27/2017 17:26:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0641
Stddev	.0040
%RSD	.37892
#1	1.0670
#2	1.0613
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3231.9	2541.3	17953.	3427.0
Stddev	3.6	1.5	24.	12.7
%RSD	.11037	.05907	.13466	.37198
#1	3229.4	2540.2	17936.	3418.0
#2	3234.5	2542.3	17970.	3436.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.456%	105.70%	104.69%	110.29%
Range				

Sample Name: 480-121538-a-14-b Acquired: 7/27/2017 17:29:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00207**	**69.954**	**.03834**	**.06811**	**.65414**
Stddev	.00094	1.051	.00054	.00019	.00826
%RSD	45.216	1.5022	1.4163	.27470	1.2624
#1	-.00273	69.211	.03795	.06798	.64830
#2	-.00141	70.697	.03872	.06825	.65998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00341**	**56.276**	**.00216**	**.3184**	**.05104**
Stddev	.00001	.827	.00027	.0049	.00003
%RSD	.43222	1.4697	12.666	1.550	.05445
#1	.00340	55.691	.00196	.3149	.05106
#2	.00342	56.861	.00235	.3219	.05103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14910**	**.24479**	**149.58**	**6.7915**	**.06040**
Stddev	.00050	.00006	1.61	.1043	.00118
%RSD	.33473	.02342	1.0753	1.5360	1.9590
#1	.14874	.24483	148.45	6.7177	.05956
#2	.14945	.24474	150.72	6.8652	.06124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-14-b Acquired: 7/27/2017 17:29:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.458**	**3.2710**	**.00325**	**1.2206**	**.10991**
Stddev	.049	.0115	.00000	.0119	.00043
%RSD	.28231	.35143	.12368	.97383	.38700
#1	17.424	3.2628	.00326	1.2122	.10961
#2	17.493	3.2791	.00325	1.2290	.11021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92470**	**2.1778**	**.00127**	**-.00030**	**3.8013**
Stddev	.00214	.0092	.00099	.00113	.1231
%RSD	.23156	.42025	77.670	372.47	3.2381
#1	.92319	2.1714	.00057	-.00110	3.7143
#2	.92622	2.1843	.00196	.00050	3.8884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08705**	**.25388**	**2.8214**	**-.00365**	**.23972**
Stddev	.00060	.00207	.0181	.00156	.00059
%RSD	.68957	.81607	.64280	42.816	.24697
#1	.08662	.25241	2.8086	-.00255	.23930
#2	.08747	.25534	2.8343	-.00476	.24014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-14-b Acquired: 7/27/2017 17:29:40 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.87015**
Stddev	.00348
%RSD	.39953
#1	.86769
#2	.87261
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3322.5**	**2527.3**	**17763.**	**3402.1**
Stddev	5.8	6.5	62.	56.7
%RSD	.17486	.25652	.34801	1.6652
#1	3326.6	2531.9	17807.	3442.2
#2	3318.4	2522.7	17719.	3362.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.879%	105.12%	103.58%	109.49%
Range				

Sample Name: 480-121538-a-15-b Acquired: 7/27/2017 17:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00201**	**71.645**	**.03909**	**.02369**	**.62584**
Stddev	.00059	.568	.00032	.00068	.00355
%RSD	29.331	.79257	.82058	2.8514	.56723
#1	-.00243	72.047	.03886	.02416	.62333
#2	-.00159	71.244	.03931	.02321	.62835
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00321**	**73.150**	**.00204**	**.3576**	**.04528**
Stddev	.00006	.564	.00002	.0114	.00003
%RSD	1.9404	.77139	1.1185	3.183	.06806
#1	.00317	73.549	.00203	.3656	.04530
#2	.00326	72.751	.00206	.3495	.04526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14012**	**.23613**	**131.29**	**7.0606**	**.06006**
Stddev	.00010	.00153	.69	.0918	.00119
%RSD	.07474	.64775	.52646	1.3001	1.9834
#1	.14005	.23504	131.78	7.1256	.06090
#2	.14019	.23721	130.81	6.9957	.05922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-15-b Acquired: 7/27/2017 17:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.807**	**2.7710**	**.00315**	**1.2195**	**.11262**
Stddev	.003	.0022	.00002	.0056	.00029
%RSD	.01106	.08039	.69250	.46297	.26027
#1	24.809	2.7694	.00317	1.2155	.11242
#2	24.805	2.7726	.00314	1.2235	.11283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.84532**	**3.4699**	**.00028**	**.00299**	**4.3389**
Stddev	.00220	.0067	.00098	.00389	.0104
%RSD	.26000	.19380	351.98	130.17	.23969
#1	.84376	3.4652	-.00041	.00024	4.3462
#2	.84687	3.4747	.00097	.00574	4.3315
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08180**	**.25160**	**3.1148**	**-.00381**	**.19858**
Stddev	.00024	.00141	.0101	.00039	.00000
%RSD	.28940	.56022	.32486	10.214	.00168
#1	.08197	.25260	3.1077	-.00408	.19857
#2	.08163	.25060	3.1220	-.00353	.19858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-15-b Acquired: 7/27/2017 17:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.85705
Stddev	.00681
%RSD	.79488
#1	.86187
#2	.85223
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3312.4	2537.0	17836.	3390.1
Stddev	6.1	4.3	32.	15.2
%RSD	.18453	.16944	.18123	.44973
#1	3308.1	2534.0	17858.	3379.3
#2	3316.8	2540.1	17813.	3400.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.610%	105.52%	104.00%	109.10%
Range				

Sample Name: 480-121538-a-16-d Acquired: 7/27/2017 17:36:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00295**	**63.809**	**.03090**	**.01709**	**.18470**
Stddev	.00006	.214	.00038	.00014	.00048
%RSD	1.8955	.33479	1.2376	.83448	.25721
#1	-.00299	63.960	.03063	.01699	.18504
#2	-.00291	63.658	.03117	.01719	.18436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**18.030**	**.00153**	**.2738**	**.01614**
Stddev	.00000	.012	.00009	.0061	.00001
%RSD	.26557	.06820	5.9337	2.235	.07090
#1	.00171	18.038	.00147	.2781	.01614
#2	.00172	18.021	.00160	.2695	.01613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08449**	**.08097**	**61.731**	**3.9170**	**.04615**
Stddev	.00046	.00096	.108	.0208	.00008
%RSD	.54307	1.1810	.17443	.53175	.18024
#1	.08482	.08165	61.807	3.9317	.04609
#2	.08417	.08030	61.655	3.9022	.04621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-d Acquired: 7/27/2017 17:36:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8525**	**.78039**	**.00248**	**.71653**	**.03944**
Stddev	.0008	.00101	.00013	.00024	.00057
%RSD	.00941	.12995	5.3575	.03284	1.4462
#1	8.8519	.78111	.00238	.71669	.03985
#2	8.8531	.77967	.00257	.71636	.03904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45250**	**1.9184**	**.00084**	**.00049**	**3.9514**
Stddev	.00044	.0014	.00211	.00392	.0573
%RSD	.09645	.07395	251.06	803.80	1.4506
#1	.45219	1.9174	.00233	.00326	3.9920
#2	.45281	1.9194	-.00065	-.00229	3.9109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05423**	**.07721**	**2.2336**	**-.00097**	**.13348**
Stddev	.00015	.00076	.0069	.00113	.00036
%RSD	.26911	.98671	.30727	116.32	.26953
#1	.05413	.07774	2.2384	-.00017	.13323
#2	.05434	.07667	2.2287	-.00178	.13374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-d Acquired: 7/27/2017 17:36:23 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.64210**
Stddev	.00173
%RSD	.26893
#1	.64088
#2	.64332
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3517.8**	**2498.2**	**17546.**	**3296.9**
Stddev	.8	4.2	19.	10.3
%RSD	.02415	.16778	.10964	.31131
#1	3517.2	2495.2	17560.	3289.7
#2	3518.4	2501.2	17532.	3304.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.104%	103.91%	102.31%	106.10%
Range				

Sample Name: 121538-a-16-dSD@5 Acquired: 7/27/2017 17:39:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**13.255**	**.00725**	**.01598**	**.03821**
Stddev	.00049	.114	.00277	.00004	.00005
%RSD	79.030	.85855	38.285	.27127	.13846
#1	-.00097	13.336	.00528	.01601	.03817
#2	-.00028	13.175	.00921	.01595	.03825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**3.8982**	**.00029**	**.0747**	**.00329**
Stddev	.00001	.0411	.00006	.0123	.00001
%RSD	3.3562	1.0551	18.954	16.42	.45085
#1	.00033	3.9273	.00025	.0660	.00328
#2	.00031	3.8691	.00033	.0834	.00330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01826**	**.01467**	**12.708**	**.79657**	**.00851**
Stddev	.00003	.00104	.133	.01482	.00070
%RSD	.17099	7.1195	1.0478	1.8600	8.1985
#1	.01828	.01394	12.802	.78609	.00802
#2	.01824	.01541	12.614	.80704	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121538-a-16-dSD@5 Acquired: 7/27/2017 17:39:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8641**	**.16245**	**.00028**	**.19509**	**.00760**
Stddev	.0076	.00054	.00017	.00261	.00036
%RSD	.40607	.33339	59.429	1.3375	4.7003
#1	1.8588	.16206	.00040	.19324	.00735
#2	1.8695	.16283	.00016	.19693	.00785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09055**	**.39939**	**.00145**	**-.00287**	**.82418**
Stddev	.00073	.00089	.00205	.00233	.00923
%RSD	.80772	.22338	141.88	81.051	1.1198
#1	.09107	.39876	.00290	-.00123	.83071
#2	.09003	.40002	-.00000	-.00452	.81765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01050**	**.01710**	**.45568**	**.00142**	**.02679**
Stddev	.00027	.00016	.00077	.00064	.00062
%RSD	2.5890	.95618	.16949	45.223	2.3227
#1	.01069	.01721	.45513	.00187	.02635
#2	.01031	.01698	.45623	.00097	.02723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121538-a-16-dSD@5 Acquired: 7/27/2017 17:39:41 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.13325
Stddev	.00161
%RSD	1.2078
#1	.13211
#2	.13439
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3684.1	2451.0	17315.	3133.5
Stddev	4.5	1.2	1.	14.2
%RSD	.12224	.04931	.00567	.45360
#1	3687.3	2451.9	17314.	3123.4
#2	3680.9	2450.2	17315.	3143.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.553%	101.95%	100.97%	100.84%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:43:03 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51120**	**24.642**	**.50309**	**.50105**	**.49380**
Stddev	.00052	.102	.00149	.00025	.00075
%RSD	.10159	.41299	.29591	.04925	.15186
#1	.51156	24.714	.50414	.50123	.49327
#2	.51083	24.570	.50204	.50088	.49433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49393**	**24.280**	**.49985**	**.0172**	**.49250**
Stddev	.00011	.001	.00046	.0349	.00160
%RSD	.02293	.00601	.09182	202.9	.32530
#1	.49385	24.281	.50017	.0419	.49137
#2	.49401	24.279	.49952	-.0075	.49364
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51541**	**.49686**	**23.448**	**24.655**	**.50127**
Stddev	.00157	.00033	.018	.014	.00228
%RSD	.30556	.06679	.07731	.05624	.45583
#1	.51429	.49663	23.435	24.664	.50289
#2	.51652	.49710	23.461	24.645	.49965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:43:03 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.854**	**.51185**	**.50690**	**24.889**	**.49780**
Stddev	.065	.00089	.00001	.060	.00156
%RSD	.26274	.17328	.00159	.24205	.31278
#1	24.808	.51122	.50691	24.931	.49670
#2	24.901	.51247	.50690	24.846	.49890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49791**	**24.811**	**.49696**	**.50066**	**23.533**
Stddev	.00156	.018	.00237	.00103	.029
%RSD	.31291	.07433	.47697	.20572	.12307
#1	.49681	24.798	.49864	.50139	23.554
#2	.49902	24.824	.49528	.49994	23.513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50491**	**.48137**	**.50014**	**.49764**	**.51408**
Stddev	.00026	.00004	.00045	.00065	.00060
%RSD	.05220	.00854	.08958	.13087	.11729
#1	.50472	.48140	.49982	.49810	.51450
#2	.50509	.48134	.50045	.49718	.51365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 17:43:03 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.51200
Stddev	.00153
%RSD	.29846
#1	.51308
#2	.51092
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3427.2	2383.1	16725.	3146.6
Stddev	4.0	.5	31.	28.3
%RSD	.11660	.02295	.18324	.89921
#1	3430.0	2382.8	16747.	3126.6
#2	3424.4	2383.5	16703.	3166.6

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:46:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.00651**	**.00279**	**-.00047**	**.00002**
Stddev	.00096	.00333	.00120	.00013	.00002
%RSD	24358.	51.190	42.886	27.651	126.15
#1	-.00068	.00415	.00363	-.00038	.00003
#2	.00068	.00887	.00194	-.00056	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00363**	**.00008**	**.0136**	**.00012**
Stddev	.00009	.00312	.00001	.0293	.00010
%RSD	267.99	85.865	8.5711	215.7	82.936
#1	-.00003	.00583	.00007	-.0071	.00005
#2	.00009	.00143	.00008	.0343	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**-.00042**	**.00015**	**-.02286**	**.00021**
Stddev	.00047	.00060	.00159	.04531	.00075
%RSD	84.632	143.94	1057.9	198.22	357.89
#1	.00089	-.00084	.00128	.00918	.00074
#2	.00022	.00001	-.00098	-.05490	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:46:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00248**	**.00011**	**.00004**	**.04510**	**.00001**
Stddev	.00196	.00010	.00023	.01687	.00021
%RSD	79.167	87.970	582.31	37.410	1993.7
#1	.00109	.00004	.00020	.03317	-.00014
#2	.00387	.00018	-.00012	.05703	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00502**	**.00081**	**-.00200**	**.02646**
Stddev	.00051	.00260	.00044	.00129	.00802
%RSD	82.093	51.714	54.590	64.316	30.321
#1	.00026	.00686	.00112	-.00109	.03213
#2	.00098	.00319	.00049	-.00291	.02078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00007**	**.00014**	**.00198**	**-.00029**
Stddev	.00015	.00001	.00026	.00079	.00062
%RSD	34.116	15.333	186.98	39.673	217.70
#1	-.00033	.00008	.00032	.00143	-.00073
#2	-.00054	.00006	-.00004	.00254	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 17:46:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00021
Stddev	.00050
%RSD	241.17
#1	-.00015
#2	.00056
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3769.0	2420.4	17136.	3103.0
Stddev	4.9	.4	92.	9.1
%RSD	.13075	.01828	.53656	.29469
#1	3772.5	2420.7	17201.	3109.5
#2	3765.5	2420.1	17071.	3096.6

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:49:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00596**	**.19008**	**.01762**	**.01961**	**.00204**
Stddev	.00020	.00323	.00091	.00008	.00003
%RSD	3.3741	1.7006	5.1434	.42097	1.4355
#1	.00582	.18780	.01698	.01955	.00206
#2	.00610	.19237	.01826	.01967	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**.48897**	**.00204**	**.0382**	**.00395**
Stddev	.00002	.00127	.00009	.0097	.00016
%RSD	1.1437	.25950	4.6447	25.34	4.0856
#1	.00194	.48808	.00211	.0313	.00383
#2	.00191	.48987	.00198	.0450	.00406
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**.01069**	**.04747**	**.50898**	**.02985**
Stddev	.00074	.00046	.00099	.04254	.00114
%RSD	15.360	4.3127	2.0884	8.3570	3.8055
#1	.00536	.01102	.04817	.47890	.02904
#2	.00431	.01037	.04677	.53906	.03065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:49:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19817**	**.00307**	**.00995**	**1.0324**	**.00975**
Stddev	.00218	.00006	.00009	.0124	.00003
%RSD	1.0989	2.0546	.92610	1.1991	.35769
#1	.19663	.00303	.01001	1.0237	.00977
#2	.19971	.00312	.00988	1.0412	.00972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01067**	**.19467**	**.02025**	**.02489**	**.50849**
Stddev	.00053	.00132	.00075	.00207	.02144
%RSD	4.9285	.67735	3.6846	8.3225	4.2172
#1	.01030	.19560	.01972	.02342	.52366
#2	.01104	.19374	.02078	.02635	.49333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00987**	**.00484**	**.00545**	**.02243**	**.00491**
Stddev	.00029	.00002	.00046	.00117	.00030
%RSD	2.9474	.31987	8.4643	5.2110	6.1858
#1	.00967	.00483	.00578	.02160	.00469
#2	.01008	.00486	.00512	.02325	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 17:49:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01148**
Stddev	.00036
%RSD	3.0995
#1	.01123
#2	.01173
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3775.9**	**2434.7**	**17228.**	**3110.0**
Stddev	3.1	4.3	25.	31.2
%RSD	.08118	.17643	.14325	1.0027
#1	3778.1	2437.7	17210.	3132.0
#2	3773.7	2431.6	17245.	3087.9

Sample Name: 480-121538-a-16-dPDS Acquired: 7/27/2017 17:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09442**	**81.344**	**.40691**	**.38143**	**.56067**
Stddev	.00092	.249	.00160	.00050	.00031
%RSD	.97012	.30562	.39407	.13036	.05511
#1	.09377	81.520	.40804	.38178	.56045
#2	.09507	81.168	.40577	.38108	.56089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38426**	**35.891**	**.38530**	**.2568**	**.39973**
Stddev	.00130	.089	.00040	.0006	.00018
%RSD	.33790	.24739	.10357	.2147	.04560
#1	.38518	35.953	.38558	.2564	.39960
#2	.38334	35.828	.38502	.2572	.39986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47482**	**.47294**	**78.369**	**22.638**	**.43577**
Stddev	.00087	.00153	.017	.170	.00227
%RSD	.18379	.32351	.02145	.74930	.52083
#1	.47544	.47185	78.381	22.758	.43737
#2	.47420	.47402	78.357	22.518	.43416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-dPDS Acquired: 7/27/2017 17:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.651**	**1.1459**	**.38361**	**19.598**	**.42562**
Stddev	.048	.0025	.00140	.100	.00069
%RSD	.17365	.22003	.36465	.51180	.16218
#1	27.617	1.1442	.38262	19.669	.42611
#2	27.685	1.1477	.38460	19.527	.42513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.84245**	**1.8995**	**.38604**	**.37920**	**4.2078**
Stddev	.00244	.0002	.00175	.00375	.0926
%RSD	.28973	.01273	.45395	.98986	2.2006
#1	.84418	1.8993	.38728	.38185	4.2733
#2	.84072	1.8997	.38480	.37654	4.1423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05505**	**.44822**	**2.5881**	**.38701**	**.53175**
Stddev	.00015	.00314	.0069	.00071	.00086
%RSD	.27320	.70008	.26671	.18394	.16224
#1	.05516	.45044	2.5930	.38751	.53236
#2	.05495	.44601	2.5833	.38651	.53114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-dPDS Acquired: 7/27/2017 17:53:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0105
Stddev	.0029
%RSD	.28426
#1	1.0125
#2	1.0085
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3335.1	2445.0	17170.	3249.1
Stddev	2.0	1.7	21.	20.0
%RSD	.05946	.07154	.11969	.61522
#1	3333.7	2443.7	17155.	3235.0
#2	3336.5	2446.2	17185.	3263.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.215%	101.69%	100.12%	104.56%
Range				

Sample Name: 480-121538-a-16-e ms Acquired: 7/27/2017 17:56:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09497**	**95.430**	**.39078**	**.37823**	**.65484**
Stddev	.00053	.219	.00048	.00062	.00084
%RSD	.55442	.22933	.12402	.16386	.12871
#1	.09534	95.275	.39044	.37867	.65424
#2	.09460	95.585	.39113	.37779	.65543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36840**	**36.136**	**.37800**	**.2204**	**.39565**
Stddev	.00147	.183	.00024	.0168	.00059
%RSD	.39889	.50599	.06325	7.602	.14960
#1	.36736	36.007	.37783	.2086	.39524
#2	.36944	36.266	.37817	.2323	.39607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.47279**	**.45200**	**75.750**	**27.476**	**.43151**
Stddev	.00215	.00091	.358	.128	.00067
%RSD	.45455	.20147	.47290	.46651	.15489
#1	.47431	.45265	75.496	27.386	.43104
#2	.47127	.45136	76.003	27.567	.43199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-e ms Acquired: 7/27/2017 17:56:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.458**	**1.2552**	**.38217**	**19.740**	**.42551**
Stddev	.098	.0048	.00049	.052	.00091
%RSD	.35753	.38223	.12754	.26353	.21293
#1	27.528	1.2586	.38183	19.703	.42615
#2	27.389	1.2518	.38252	19.777	.42487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.78671**	**20.075**	**.32410**	**.36445**	**4.9906**
Stddev	.00021	.003	.00143	.00455	.0152
%RSD	.02630	.01373	.44139	1.2492	.30362
#1	.78686	20.073	.32511	.36767	5.0014
#2	.78657	20.076	.32309	.36123	4.9799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.44826**	**.45684**	**3.0016**	**.37580**	**.54289**
Stddev	.00057	.00142	.0035	.00135	.00354
%RSD	.12654	.30985	.11663	.35902	.65291
#1	.44786	.45584	3.0041	.37485	.54540
#2	.44867	.45784	2.9991	.37676	.54038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121538-a-16-e ms Acquired: 7/27/2017 17:56:19 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0007
Stddev	.0072
%RSD	.72205
#1	1.0059
#2	.99563
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3337.1	2461.4	17106.	3293.7
Stddev	1.4	1.6	54.	36.5
%RSD	.04140	.06535	.31582	1.1071
#1	3338.1	2460.2	17068.	3319.5
#2	3336.1	2462.5	17145.	3267.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.270%	102.38%	99.750%	106.00%
Range				

Sample Name: 121538-a-16-f msd Acquired: 7/27/2017 17:59:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06066**	**105.36**	**.38348**	**.36116**	**.64714**
Stddev	.00034	.14	.00006	.00037	.00406
%RSD	.56810	.12862	.01482	.10318	.62739
#1	.06090	105.46	.38352	.36142	.64427
#2	.06041	105.27	.38344	.36090	.65001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.35679**	**36.175**	**.36754**	**.3191**	**.38778**
Stddev	.00177	.021	.00081	.0223	.00077
%RSD	.49483	.05794	.21945	6.977	.19736
#1	.35804	36.190	.36811	.3033	.38833
#2	.35554	36.160	.36697	.3348	.38724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48127**	**.45006**	**80.938**	**26.700**	**.42566**
Stddev	.00075	.00099	.113	.109	.00075
%RSD	.15658	.21904	.13940	.40801	.17547
#1	.48074	.45075	80.858	26.623	.42513
#2	.48180	.44936	81.018	26.777	.42619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121538-a-16-f msd Acquired: 7/27/2017 17:59:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.073**	**1.3293**	**.37155**	**19.092**	**.42055**
Stddev	.085	.0043	.00027	.044	.00045
%RSD	.30134	.31973	.07205	.22922	.10714
#1	28.013	1.3263	.37174	19.123	.42023
#2	28.133	1.3323	.37136	19.061	.42087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.82901**	**19.520**	**.29963**	**.36321**	**5.9015**
Stddev	.00024	.026	.00170	.00099	.0099
%RSD	.02841	.13256	.56676	.27299	.16801
#1	.82917	19.538	.29842	.36391	5.8944
#2	.82884	19.501	.30083	.36251	5.9085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.43196**	**.44581**	**3.1300**	**.36508**	**.55696**
Stddev	.00140	.00131	.0050	.00088	.00258
%RSD	.32336	.29392	.16143	.24034	.46253
#1	.43295	.44488	3.1264	.36570	.55514
#2	.43097	.44674	3.1336	.36446	.55878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 121538-a-16-f msd Acquired: 7/27/2017 17:59:34 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.0724**
Stddev	.0084
%RSD	.78405
#1	1.0665
#2	1.0783
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3338.0**	**2468.5**	**17193.**	**3284.9**
Stddev	6.3	5.1	89.	3.6
%RSD	.18989	.20695	.51764	.10964
#1	3333.5	2464.9	17256.	3287.5
#2	3342.5	2472.1	17130.	3282.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.293%	102.68%	100.25%	105.71%
Range				

Sample Name: BLANK Acquired: 7/27/2017 18:02:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.00562**	**.00481**	**-.00043**	**.00004**
Stddev	.00011	.02818	.00010	.00008	.00001
%RSD	18.379	501.64	1.9935	18.764	36.336
#1	-.00066	.02555	.00474	-.00037	.00003
#2	-.00051	-.01431	.00488	-.00048	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00670**	**-.00002**	**.0085**	**.00008**
Stddev	.00009	.00397	.00039	.0236	.00004
%RSD	81.835	59.252	2379.9	278.9	52.496
#1	.00016	.00950	-.00029	-.0082	.00011
#2	.00004	.00389	.00026	.0252	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**-.00008**	**.00463**	**.01373**	**-.00101**
Stddev	.00001	.00001	.00289	.02591	.00143
%RSD	.96504	16.328	62.453	188.71	140.70
#1	.00054	-.00008	.00259	-.00459	-.00202
#2	.00053	-.00009	.00668	.03205	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 18:02:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.00003**	**-.00001**	**.03851**	**-.00013**
Stddev	.00275	.00004	.00018	.01161	.00003
%RSD	350.36	152.24	3009.0	30.138	26.245
#1	.00116	-.00000	-.00013	.03031	-.00010
#2	-.00273	.00005	.00012	.04672	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00878**	**.00086**	**.00126**	**.00722**
Stddev	.00099	.00222	.00022	.00020	.01366
%RSD	2116.3	25.339	25.742	16.086	189.12
#1	-.00075	.00721	.00070	.00112	-.00244
#2	.00066	.01035	.00102	.00141	.01688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00013**	**.00124**	**.00218**	**-.00033**
Stddev	.00039	.00001	.00015	.00052	.00037
%RSD	72.112	10.018	12.071	23.786	110.86
#1	-.00026	.00012	.00114	.00181	-.00007
#2	-.00081	.00014	.00135	.00254	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 7/27/2017 18:02:50 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00064
Stddev	.00046
%RSD	71.397
#1	.00032
#2	.00096
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3746.2	2407.1	17053.	3064.6
Stddev	6.0	4.6	70.	.1
%RSD	.15981	.19264	.41285	.00267
#1	3742.0	2403.8	17003.	3064.6
#2	3750.5	2410.4	17103.	3064.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.21%	100.12%	99.438%	98.623%
Range				

Sample Name: MB 480-368850/1-A Acquired: 7/27/2017 18:06:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**.02842**	**.00088**	**.00037**	**.00069**
Stddev	.00062	.01946	.00168	.00038	.00004
%RSD	66.546	68.479	191.46	104.16	5.6347
#1	-.00050	.01466	.00206	.00064	.00072
#2	-.00138	.04218	-.00031	.00010	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.04095**	**.00018**	**.0026**	**.00027**
Stddev	.00005	.00078	.00001	.0070	.00001
%RSD	67.766	1.9108	7.8916	267.9	3.1934
#1	.00004	.04151	.00019	.0076	.00027
#2	.00011	.04040	.00017	-.0023	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00067**	**.02868**	**.01422**	**.00043**
Stddev	.00050	.00042	.00066	.06190	.00004
%RSD	62.114	62.952	2.3069	435.20	8.5205
#1	.00115	.00097	.02821	.05800	.00041
#2	.00045	.00037	.02915	-.02955	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-368850/1-A Acquired: 7/27/2017 18:06:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.00028**	**.00005**	**.07549**	**.00056**
Stddev	.00125	.00002	.00016	.00444	.00020
%RSD	63.348	5.8662	331.51	5.8833	35.760
#1	.00287	.00029	-.00006	.07863	.00042
#2	.00109	.00027	.00016	.07235	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.02365**	**.00049**	**.00037**	**.25468**
Stddev	.00139	.00001	.00067	.00435	.00644
%RSD	500.64	.04373	136.04	1171.5	2.5280
#1	-.00070	.02364	.00097	-.00270	.25923
#2	.00126	.02366	.00002	.00344	.25013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04649**	**.00021**	**.00132**	**.00117**	**-.00025**
Stddev	.00018	.00002	.00017	.00064	.00036
%RSD	.38757	7.5318	13.054	54.893	145.97
#1	.04662	.00020	.00145	.00162	.00001
#2	.04636	.00022	.00120	.00071	-.00050
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: MB 480-368850/1-A Acquired: 7/27/2017 18:06:14 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00179**
Stddev	.00039
%RSD	22.005
#1	.00151
#2	.00207
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3820.8**	**2427.5**	**17455.**	**3141.4**
Stddev	4.6	5.4	24.	1.8
%RSD	.12129	.22227	.13615	.05653
#1	3817.5	2423.7	17472.	3140.2
#2	3824.1	2431.3	17438.	3142.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.21%	100.97%	101.78%	101.10%
Range				

Sample Name: LCSSRM 480-368850/2- Acquired: 7/27/2017 18:09:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52438**	**93.047**	**1.8783**	**.66597**	**3.6300**
Stddev	.00163	.638	.0014	.00025	.0285
%RSD	.31021	.68548	.07169	.03774	.78465
#1	.52553	92.596	1.8792	.66615	3.6099
#2	.52323	93.498	1.8773	.66579	3.6501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95456**	**52.598**	**1.0853**	**1.462**	**2.0369**
Stddev	.00788	.497	.0003	.007	.0030
%RSD	.82531	.94518	.02658	.4784	.14662
#1	.94898	52.246	1.0850	1.457	2.0391
#2	.96013	52.949	1.0855	1.467	2.0348
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.70246**	**.75326**	**133.77**	**28.398**	**.07193**
Stddev	.00062	.00297	1.32	.262	.00003
%RSD	.08879	.39410	.98495	.92347	.04030
#1	.70202	.75536	132.84	28.213	.07191
#2	.70290	.75116	134.70	28.584	.07195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Sample Name: LCSSRM 480-368850/2- Acquired: 7/27/2017 18:09:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.456**	**4.0723**	**.56113**	**5.9127**	**1.8925**
Stddev	.018	.0047	.00010	.0349	.0002
%RSD	.06169	.11600	.01786	.59096	.00869
#1	28.469	4.0690	.56120	5.8880	1.8927
#2	28.444	4.0756	.56106	5.9374	1.8924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77361**	**1.3562**	**.62992**	**.92528**	**4.2727**
Stddev	.00243	.0060	.00226	.00168	.0053
%RSD	.31439	.44257	.35812	.18148	.12460
#1	.77533	1.3605	.63152	.92409	4.2689
#2	.77189	1.3520	.62832	.92646	4.2764
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96120**	**1.3225**	**4.1165**	**1.5005**	**1.4141**
Stddev	.00061	.0098	.0004	.0004	.0074
%RSD	.06393	.74466	.00899	.02820	.52453
#1	.96076	1.3155	4.1162	1.5002	1.4089
#2	.96163	1.3294	4.1167	1.5008	1.4194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-368850/2- Acquired: 7/27/2017 18:09:39 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.9923**
Stddev	.0139
%RSD	.46414
#1	2.9825
#2	3.0022
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3274.4**	**2744.8**	**19263.**	**3682.5**
Stddev	2.9	1.1	62.	23.8
%RSD	.08719	.04159	.32031	.64716
#1	3272.4	2744.0	19306.	3699.4
#2	3276.4	2745.6	19219.	3665.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.593%	114.17%	112.32%	118.51%
Range				

Sample Name: 480-121619-A-1-A Acquired: 7/27/2017 18:12:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00153**	**79.062**	**.04326**	**.07885**	**.55387**
Stddev	.00074	.089	.00264	.00038	.00537
%RSD	48.330	.11234	6.0959	.48297	.97003
#1	-.00101	79.125	.04512	.07858	.55007
#2	-.00205	79.000	.04139	.07912	.55767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00350**	**150.89**	**.00230**	**.4378**	**.05210**
Stddev	.00004	.12	.00015	.0192	.00010
%RSD	1.1259	.07931	6.4631	4.395	.18713
#1	.00348	150.81	.00220	.4242	.05203
#2	.00353	150.98	.00241	.4514	.05217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10777**	**.25986**	**127.65**	**16.815**	**.09909**
Stddev	.00115	.00187	.14	.024	.00002
%RSD	1.0705	.71839	.11233	.14549	.01861
#1	.10859	.26118	127.55	16.832	.09911
#2	.10696	.25854	127.75	16.797	.09908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-1-A Acquired: 7/27/2017 18:12:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.527**	**4.2539**	**.00213**	**3.6377**	**.12200**
Stddev	.070	.0011	.00027	.0090	.00036
%RSD	.12747	.02646	12.602	.24804	.29371
#1	54.478	4.2547	.00231	3.6441	.12175
#2	54.576	4.2531	.00194	3.6314	.12226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1891**	**1.5116**	**.00153**	**.00040**	**5.6403**
Stddev	.0029	.0029	.00050	.00043	.0113
%RSD	.23948	.19351	32.471	106.38	.20073
#1	1.1871	1.5096	.00118	.00010	5.6323
#2	1.1911	1.5137	.00188	.00071	5.6483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10242**	**.20705**	**1.2890**	**-.00132**	**.17868**
Stddev	.00014	.00042	.0083	.00156	.00028
%RSD	.13479	.20302	.64070	117.94	.15517
#1	.10233	.20675	1.2949	-.00022	.17888
#2	.10252	.20735	1.2832	-.00242	.17849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-1-A Acquired: 7/27/2017 18:12:51 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.91518**
Stddev	.00413
%RSD	.45114
#1	.91226
#2	.91810
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3188.2**	**2690.5**	**18978.**	**3670.8**
Stddev	.8	1.9	19.	6.9
%RSD	.02553	.06961	.10168	.18908
#1	3188.8	2691.8	18965.	3665.9
#2	3187.6	2689.2	18992.	3675.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.286%	111.91%	110.67%	118.13%
Range				

Sample Name: 480-121619-A-8-A Acquired: 7/27/2017 18:16:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	**55.368**	**.04041**	**.08308**	**.44116**
Stddev	.00069	.335	.00356	.00000	.00305
%RSD	55.067	.60543	8.8111	.00236	.69233
#1	-.00077	55.131	.03790	.08308	.43900
#2	-.00175	55.605	.04293	.08308	.44332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	**232.52**	**.00212**	**.3351**	**.03320**
Stddev	.00003	1.94	.00003	.0177	.00018
%RSD	1.1955	.83311	1.6522	5.273	.53805
#1	.00239	231.15	.00214	.3226	.03332
#2	.00235	233.89	.00209	.3476	.03307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08185**	**.10112**	**83.179**	**14.405**	**.05079**
Stddev	.00060	.00060	.775	.170	.00048
%RSD	.73511	.59572	.93205	1.1778	.94879
#1	.08142	.10069	82.631	14.285	.05045
#2	.08227	.10154	83.728	14.525	.05113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-8-A Acquired: 7/27/2017 18:16:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.395**	**2.5981**	**.00170**	**1.1460**	**.07348**
Stddev	.341	.0157	.00006	.0083	.00030
%RSD	.82368	.60476	3.8182	.72736	.40608
#1	41.154	2.5870	.00174	1.1401	.07327
#2	41.636	2.6092	.00165	1.1519	.07369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8546**	**1.7014**	**-.00100**	**.00094**	**6.7294**
Stddev	.0003	.0007	.00109	.00032	.0855
%RSD	.01777	.04203	108.42	34.538	1.2709
#1	1.8544	1.7019	-.00177	.00071	6.7899
#2	1.8548	1.7009	-.00023	.00117	6.6689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06074**	**.34334**	**1.6413**	**-.00268**	**.14074**
Stddev	.00040	.00377	.0090	.00173	.00132
%RSD	.66024	1.0988	.55079	64.459	.93654
#1	.06102	.34067	1.6349	-.00146	.13980
#2	.06046	.34601	1.6477	-.00390	.14167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-8-A Acquired: 7/27/2017 18:16:12 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.79044**
Stddev	.00326
%RSD	.41267
#1	.78814
#2	.79275
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3165.0**	**2559.2**	**18078.**	**3506.9**
Stddev	7.3	4.9	43.	40.8
%RSD	.23096	.19341	.23704	1.1633
#1	3170.1	2562.7	18109.	3535.7
#2	3159.8	2555.7	18048.	3478.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.665%	106.45%	105.42%	112.86%
Range				

Sample Name: 480-121619-A-11-A Acquired: 7/27/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00236**	**82.686**	**.14425**	**.24703**	**.97206**
Stddev	.00048	.062	.00097	.00045	.00542
%RSD	20.387	.07525	.67273	.18098	.55794
#1	-.00271	82.642	.14356	.24672	.96822
#2	-.00202	82.730	.14493	.24735	.97589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00486**	**296.61**	**.00100**	**.4282**	**.05367**
Stddev	.00000	2.12	.00000	.0027	.00005
%RSD	.08052	.71435	.13383	.6242	.09241
#1	.00486	298.11	.00100	.4301	.05363
#2	.00486	295.12	.00100	.4263	.05370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09506**	**.21781**	**176.45**	**36.640**	**.08908**
Stddev	.00010	.00171	.05	.195	.00177
%RSD	.10843	.78684	.02623	.53271	1.9902
#1	.09513	.21902	176.42	36.502	.08782
#2	.09499	.21659	176.48	36.778	.09033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-11-A Acquired: 7/27/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.531**	**7.5659**	**.00201**	**1.3071**	**.13197**
Stddev	.149	.0190	.00016	.0060	.00088
%RSD	.53959	.25126	7.9267	.46020	.66848
#1	27.636	7.5793	.00190	1.3028	.13259
#2	27.426	7.5525	.00212	1.3113	.13135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12521**	**1.0723**	**-.00235**	**-.00393**	**22.531**
Stddev	.00391	.0004	.00036	.00243	.078
%RSD	3.1202	.03953	15.441	61.783	.34498
#1	.12797	1.0726	-.00210	-.00564	22.476
#2	.12245	1.0720	-.00261	-.00221	22.586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05334**	**.34796**	**.72552**	**-.00451**	**.15860**
Stddev	.00006	.00186	.02267	.00048	.00089
%RSD	.12157	.53522	3.1251	10.667	.56210
#1	.05339	.34664	.74155	-.00417	.15923
#2	.05329	.34928	.70949	-.00485	.15797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121619-A-11-A Acquired: 7/27/2017 18:19:30 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.30890**
Stddev	.00216
%RSD	.69782
#1	.31042
#2	.30737
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3031.6**	**2706.5**	**19042.**	**3744.6**
Stddev	1.5	3.5	23.	15.2
%RSD	.05056	.12897	.11995	.40645
#1	3030.5	2709.0	19025.	3733.8
#2	3032.6	2704.0	19058.	3755.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.096%	112.57%	111.03%	120.51%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 18:23:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51074**	**24.599**	**.49971**	**.50110**	**.49232**
Stddev	.00379	.161	.00019	.00043	.00322
%RSD	.74275	.65381	.03828	.08544	.65329
#1	.51342	24.713	.49984	.50079	.49460
#2	.50806	24.485	.49957	.50140	.49005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49403**	**24.333**	**.49924**	**.0304**	**.49221**
Stddev	.00268	.134	.00016	.0147	.00082
%RSD	.54146	.55249	.03168	48.38	.16675
#1	.49592	24.428	.49935	.0200	.49279
#2	.49214	24.238	.49912	.0409	.49163
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51301**	**.49638**	**23.516**	**24.700**	**.50490**
Stddev	.00175	.00411	.159	.099	.00068
%RSD	.34040	.82860	.67529	.40090	.13464
#1	.51425	.49929	23.628	24.770	.50442
#2	.51178	.49347	23.403	24.630	.50538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 18:23:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.776**	**.51102**	**.50681**	**24.886**	**.49751**
Stddev	.146	.00324	.00016	.118	.00033
%RSD	.59043	.63404	.03138	.47324	.06593
#1	24.880	.51331	.50692	24.969	.49774
#2	24.673	.50873	.50670	24.803	.49728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49502**	**24.804**	**.49605**	**.50160**	**23.548**
Stddev	.00011	.004	.00093	.00309	.109
%RSD	.02252	.01801	.18655	.61524	.46208
#1	.49494	24.807	.49540	.49941	23.625
#2	.49510	24.801	.49671	.50378	23.471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50340**	**.48102**	**.49764**	**.49808**	**.51528**
Stddev	.00052	.00208	.00355	.00111	.00161
%RSD	.10325	.43304	.71289	.22242	.31298
#1	.50377	.48249	.50015	.49887	.51642
#2	.50303	.47955	.49514	.49730	.51414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 18:23:02 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51008**
Stddev	.00201
%RSD	.39331
#1	.51150
#2	.50866
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3427.6**	**2382.7**	**16822.**	**3127.5**
Stddev	.9	2.6	78.	29.4
%RSD	.02665	.11092	.46425	.94043
#1	3427.0	2380.8	16767.	3106.7
#2	3428.3	2384.6	16877.	3148.3

Sample Name: CCB-4130963 Acquired: 7/27/2017 18:26:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**-.01448**	**.00307**	**-.00065**	**-.00000**
Stddev	.00008	.01457	.00088	.00004	.00001
%RSD	34.867	100.66	28.684	5.8326	4491.3
#1	-.00030	-.00417	.00369	-.00062	-.00001
#2	-.00018	-.02478	.00245	-.00068	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.01071**	**.00010**	**.0065**	**.00020**
Stddev	.00003	.00049	.00005	.0055	.00009
%RSD	47.300	4.5335	51.203	85.03	46.220
#1	.00004	.01036	.00013	.0104	.00013
#2	.00009	.01105	.00006	.0026	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00001**	**.00299**	**-.00442**	**-.00106**
Stddev	.00023	.00019	.00067	.02305	.00116
%RSD	59.066	2209.8	22.293	521.09	109.95
#1	.00022	-.00014	.00346	-.02072	-.00024
#2	.00055	.00013	.00252	.01188	-.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 18:26:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**.00015**	**-.00008**	**.02728**	**.00023**
Stddev	.00196	.00011	.00005	.00881	.00008
%RSD	158.79	72.441	65.026	32.275	35.876
#1	.00015	.00023	-.00004	.03351	.00017
#2	-.00262	.00007	-.00012	.02106	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00622**	**.00049**	**-.00166**	**.02240**
Stddev	.00034	.00283	.00158	.00453	.01534
%RSD	56.982	45.448	323.52	272.82	68.466
#1	.00084	.00422	.00160	.00154	.03325
#2	.00036	.00822	-.00063	-.00486	.01156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00016**	**.00090**	**.00171**	**-.00019**
Stddev	.00031	.00005	.00049	.00071	.00016
%RSD	76.423	35.001	55.243	41.654	83.186
#1	-.00062	.00012	.00055	.00222	-.00008
#2	-.00018	.00019	.00125	.00121	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 18:26:12 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00044
Stddev	.00096
%RSD	217.34
#1	-.00024
#2	.00112
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3767.1	2417.6	17195.	3110.5
Stddev	6.1	3.8	89.	7.7
%RSD	.16156	.15881	.51865	.24820
#1	3762.8	2414.9	17258.	3105.1
#2	3771.4	2420.3	17132.	3116.0

Sample Name: CCVL-4147888 Acquired: 7/27/2017 18:29:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00509**	**.18468**	**.01787**	**.01986**	**.00205**
Stddev	.00045	.01177	.00033	.00018	.00001
%RSD	8.9333	6.3758	1.8502	.91843	.51327
#1	.00477	.19301	.01810	.01999	.00206
#2	.00541	.17636	.01763	.01974	.00204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**.48344**	**.00206**	**.0395**	**.00382**
Stddev	.00008	.00355	.00016	.0015	.00016
%RSD	3.7532	.73404	7.8656	3.714	4.1568
#1	.00198	.48595	.00217	.0385	.00393
#2	.00209	.48093	.00195	.0406	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00431**	**.00857**	**.04676**	**.50262**	**.02929**
Stddev	.00033	.00066	.00260	.00857	.00043
%RSD	7.5566	7.6724	5.5618	1.7052	1.4839
#1	.00408	.00904	.04860	.50868	.02960
#2	.00454	.00811	.04492	.49656	.02899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 18:29:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19251**	**.00310**	**.00989**	**1.0248**	**.00957**
Stddev	.00440	.00001	.00007	.0153	.00013
%RSD	2.2845	.39214	.69141	1.4895	1.3268
#1	.19562	.00309	.00984	1.0356	.00948
#2	.18940	.00311	.00994	1.0140	.00966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01082**	**.19498**	**.01986**	**.02453**	**.49850**
Stddev	.00185	.00071	.00208	.00157	.00683
%RSD	17.070	.36243	10.461	6.3880	1.3701
#1	.01213	.19548	.02132	.02342	.50333
#2	.00952	.19448	.01839	.02564	.49367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00890**	**.00488**	**.00520**	**.02140**	**.00477**
Stddev	.00004	.00009	.00044	.00023	.00004
%RSD	.43981	1.9283	8.5415	1.0787	.82356
#1	.00887	.00494	.00489	.02156	.00474
#2	.00892	.00481	.00551	.02124	.00479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 18:29:37 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01067
Stddev	.00024
%RSD	2.2600
#1	.01050
#2	.01084
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3773.8	2432.5	17343.	3140.4
Stddev	6.1	.2	2.	14.4
%RSD	.16294	.00944	.01386	.45878
#1	3778.1	2432.3	17342.	3130.2
#2	3769.4	2432.6	17345.	3150.5

Sample Name: 480-121651-A-1-A Acquired: 7/27/2017 18:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**116.59**	**.11782**	**.09549**	**.88796**
Stddev	.00010	.55	.00101	.00074	.00042
%RSD	9.4816	.47570	.85397	.77240	.04687
#1	-.00116	116.98	.11853	.09497	.88825
#2	-.00101	116.19	.11710	.09601	.88766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**72.614**	**.00702**	**.3771**	**.06655**
Stddev	.00018	.361	.00008	.0013	.00012
%RSD	3.1046	.49756	1.1106	.3518	.17584
#1	.00575	72.869	.00696	.3761	.06647
#2	.00601	72.358	.00707	.3780	.06663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20583**	**.40026**	**193.65**	**23.796**	**.17002**
Stddev	.00107	.00296	1.00	.006	.00070
%RSD	.51881	.73847	.51431	.02345	.41442
#1	.20659	.40235	194.35	23.792	.17052
#2	.20508	.39817	192.95	23.800	.16953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-1-A Acquired: 7/27/2017 18:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.719**	**3.0427**	**.01107**	**1.0721**	**.21061**
Stddev	.149	.0035	.00013	.0233	.00055
%RSD	.36577	.11384	1.1855	2.1748	.26247
#1	40.824	3.0452	.01098	1.0885	.21022
#2	40.614	3.0403	.01116	1.0556	.21100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2043**	**4.8842**	**.00221**	**.00634**	**8.0530**
Stddev	.0050	.0027	.00133	.00706	.0757
%RSD	.22506	.05448	60.381	111.48	.94018
#1	2.2008	4.8823	.00127	.00134	8.1065
#2	2.2078	4.8861	.00315	.01133	7.9994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10746**	**.21240**	**1.4142**	**-.00062**	**.26674**
Stddev	.00059	.00081	.0145	.00032	.00037
%RSD	.55109	.38346	1.0271	52.723	.13782
#1	.10788	.21297	1.4039	-.00085	.26700
#2	.10704	.21182	1.4244	-.00039	.26648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-1-A Acquired: 7/27/2017 18:33:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.8885**
Stddev	.0014
%RSD	.07285
#1	1.8895
#2	1.8876
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3220.0**	**2574.2**	**18094.**	**3431.4**
Stddev	5.0	.4	5.	23.2
%RSD	.15634	.01601	.02759	.67511
#1	3223.5	2574.5	18098.	3415.0
#2	3216.4	2573.9	18090.	3447.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.136%	107.07%	105.51%	110.43%
Range				

Sample Name: 480-121651-A-2-A Acquired: 7/27/2017 18:36:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00114**	**133.09**	**.12716**	**.10003**	**.92177**
Stddev	.00063	.03	.00172	.00031	.00296
%RSD	55.210	.02003	1.3531	.31095	.32073
#1	-.00158	133.11	.12838	.10025	.91968
#2	-.00069	133.07	.12594	.09981	.92386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00611**	**93.277**	**.00518**	**.3795**	**.07025**
Stddev	.00007	.308	.00001	.0181	.00013
%RSD	1.2274	.32983	.11303	4.777	.18840
#1	.00605	93.059	.00518	.3923	.07035
#2	.00616	93.495	.00517	.3666	.07016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19513**	**.45927**	**188.56**	**25.139**	**.19060**
Stddev	.00044	.00290	.53	.094	.00035
%RSD	.22489	.63144	.28314	.37339	.18337
#1	.19482	.45722	188.18	25.073	.19084
#2	.19544	.46132	188.94	25.205	.19035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-2-A Acquired: 7/27/2017 18:36:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.870**	**3.0209**	**.01021**	**1.2606**	**.21410**
Stddev	.121	.0026	.00027	.0102	.00043
%RSD	.27606	.08453	2.6220	.81099	.20007
#1	43.784	3.0191	.01002	1.2534	.21379
#2	43.955	3.0227	.01040	1.2679	.21440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8739**	**2.3162**	**.00116**	**.00216**	**8.3838**
Stddev	.0039	.0003	.00016	.00009	.0313
%RSD	.20869	.01306	13.364	4.2598	.37352
#1	1.8711	2.3160	.00127	.00222	8.4060
#2	1.8767	2.3164	.00105	.00209	8.3617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11534**	**.28124**	**1.5148**	**.00165**	**.28906**
Stddev	.00013	.00083	.0155	.00008	.00032
%RSD	.11555	.29386	1.0207	5.0732	.11146
#1	.11524	.28065	1.5258	.00160	.28883
#2	.11543	.28182	1.5039	.00171	.28928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-2-A Acquired: 7/27/2017 18:36:20 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.5242**
Stddev	.0092
%RSD	.60445
#1	1.5177
#2	1.5307
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3204.8**	**2608.8**	**18348.**	**3514.5**
Stddev	1.2	.9	61.	11.0
%RSD	.03816	.03278	.33109	.31425
#1	3205.7	2609.4	18391.	3522.3
#2	3204.0	2608.2	18305.	3506.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.731%	108.51%	106.99%	113.10%
Range				

Sample Name: 480-121651-A-3-A Acquired: 7/27/2017 18:39:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**78.317**	**.10956**	**.08076**	**1.6219**
Stddev	.00031	.301	.00241	.00052	.0111
%RSD	130.49	.38452	2.2035	.64503	.68626
#1	.00002	78.530	.11127	.08039	1.6298
#2	.00045	78.104	.10786	.08112	1.6140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00564**	**55.025**	**.01566**	**.3086**	**.05942**
Stddev	.00001	.162	.00001	.0084	.00010
%RSD	.16255	.29508	.08046	2.737	.16673
#1	.00565	55.140	.01567	.3146	.05949
#2	.00563	54.910	.01565	.3026	.05935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21173**	**.63872**	**187.86**	**13.670**	**.12895**
Stddev	.00142	.00118	.93	.133	.00146
%RSD	.66932	.18452	.49541	.97288	1.1303
#1	.21073	.63955	188.52	13.764	.12792
#2	.21273	.63789	187.20	13.576	.12998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-A Acquired: 7/27/2017 18:39:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.684**	**3.1345**	**.01428**	**1.1770**	**.19384**
Stddev	.059	.0060	.00008	.0009	.00069
%RSD	.35593	.19113	.55944	.07634	.35634
#1	16.726	3.1387	.01422	1.1777	.19335
#2	16.642	3.1302	.01434	1.1764	.19433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2332**	**5.7814**	**.01218**	**.00802**	**4.7764**
Stddev	.0074	.0051	.00195	.00500	.0217
%RSD	.11903	.08822	15.991	62.334	.45515
#1	6.2280	5.7778	.01355	.01156	4.7918
#2	6.2384	5.7850	.01080	.00449	4.7610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30931**	**.30767**	**1.1614**	**-.00097**	**.21776**
Stddev	.00047	.00217	.0130	.00230	.00007
%RSD	.15273	.70582	1.1178	236.32	.03327
#1	.30897	.30921	1.1706	.00065	.21771
#2	.30964	.30613	1.1522	-.00259	.21781
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-A Acquired: 7/27/2017 18:39:38 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**4.6065**
Stddev	.0179
%RSD	.38940
#1	4.6192
#2	4.5939
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3343.2**	**2560.6**	**17954.**	**3413.3**
Stddev	1.0	3.4	18.	23.9
%RSD	.03051	.13468	.10230	.70106
#1	3343.9	2563.1	17941.	3396.4
#2	3342.5	2558.2	17967.	3430.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.433%	106.51%	104.70%	109.84%
Range				

Sample Name: 480-121651-A-3-Asd@5 Acquired: 7/27/2017 18:42:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**16.658**	**.02606**	**.02318**	**.35140**
Stddev	.00111	.078	.00122	.00013	.00006
%RSD	104.15	.46717	4.6954	.54210	.01815
#1	-.00185	16.603	.02520	.02327	.35136
#2	-.00028	16.713	.02693	.02310	.35145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**11.900**	**.00347**	**.0697**	**.01173**
Stddev	.00002	.021	.00011	.0175	.00031
%RSD	1.7108	.17991	3.2416	25.05	2.6261
#1	.00128	11.885	.00355	.0820	.01151
#2	.00125	11.915	.00339	.0573	.01195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04504**	**.13054**	**40.269**	**2.8330**	**.02550**
Stddev	.00038	.00023	.256	.0331	.00087
%RSD	.85212	.17620	.63499	1.1685	3.4250
#1	.04531	.13038	40.088	2.8096	.02488
#2	.04477	.13071	40.450	2.8564	.02612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-Asd@5 Acquired: 7/27/2017 18:42:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6142**	**.66774**	**.00285**	**.26363**	**.03782**
Stddev	.0095	.00123	.00017	.00375	.00021
%RSD	.26336	.18359	5.8531	1.4228	.56367
#1	3.6074	.66860	.00274	.26098	.03797
#2	3.6209	.66687	.00297	.26628	.03767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2340**	**1.2268**	**.00213**	**-.00161**	**1.0484**
Stddev	.0022	.0042	.00093	.00131	.0032
%RSD	.17621	.34227	43.541	81.329	.30261
#1	1.2325	1.2238	.00278	-.00068	1.0462
#2	1.2355	1.2298	.00147	-.00254	1.0507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06044**	**.06607**	**.24146**	**.00294**	**.04637**
Stddev	.00014	.00049	.00061	.00077	.00126
%RSD	.23570	.73471	.25112	26.164	2.7225
#1	.06034	.06573	.24188	.00349	.04726
#2	.06054	.06642	.24103	.00240	.04548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-Asd@5 Acquired: 7/27/2017 18:42:58 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.99668
Stddev	.00118
%RSD	.11879
#1	.99752
#2	.99585
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3621.0	2458.5	17428.	3183.7
Stddev	2.0	.5	30.	9.5
%RSD	.05414	.02138	.17011	.29739
#1	3619.6	2458.9	17407.	3190.4
#2	3622.4	2458.1	17449.	3177.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.865%	102.26%	101.63%	102.46%
Range				

Sample Name: 480-121651-A-3-A pds Acquired: 7/27/2017 18:46:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09465**	**94.191**	**.47451**	**.42494**	**1.9305**
Stddev	.00075	.167	.00032	.00078	.0090
%RSD	.79664	.17692	.06653	.18269	.46589
#1	.09412	94.074	.47429	.42439	1.9242
#2	.09518	94.309	.47473	.42548	1.9369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37424**	**71.263**	**.39032**	**.2975**	**.45012**
Stddev	.00166	.114	.00010	.0174	.00009
%RSD	.44374	.15979	.02662	5.838	.01920
#1	.37307	71.183	.39025	.2852	.45006
#2	.37541	71.344	.39039	.3098	.45019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.58238**	**.99966**	**199.64**	**31.349**	**.50311**
Stddev	.00166	.00233	.55	.186	.00134
%RSD	.28446	.23331	.27645	.59189	.26582
#1	.58355	.99801	199.25	31.218	.50217
#2	.58120	1.0013	200.03	31.480	.50406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-A pds Acquired: 7/27/2017 18:46:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.570**	**3.4054**	**.38103**	**19.406**	**.58412**
Stddev	.070	.0078	.00015	.045	.00039
%RSD	.20161	.22801	.03898	.23063	.06632
#1	34.619	3.4109	.38114	19.374	.58385
#2	34.521	3.3999	.38093	19.437	.58440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4882**	**5.6874**	**.38561**	**.38001**	**4.5983**
Stddev	.0002	.0121	.00012	.00170	.0046
%RSD	.00295	.21297	.02986	.44640	.10034
#1	6.4881	5.6960	.38553	.38121	4.5950
#2	6.4884	5.6789	.38569	.37881	4.6016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30423**	**.65680**	**1.4939**	**.38935**	**.60301**
Stddev	.00101	.00208	.0203	.00020	.00175
%RSD	.33179	.31616	1.3585	.05248	.28942
#1	.30495	.65533	1.5082	.38921	.60425
#2	.30352	.65827	1.4795	.38950	.60178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-A pds Acquired: 7/27/2017 18:46:17 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**4.8396**
Stddev	.0192
%RSD	.39670
#1	4.8532
#2	4.8260
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3236.7**	**2526.9**	**17697.**	**3414.1**
Stddev	9.7	6.7	11.	6.3
%RSD	.30120	.26324	.06417	.18596
#1	3229.8	2522.2	17689.	3418.6
#2	3243.6	2531.6	17705.	3409.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.585%	105.10%	103.20%	109.87%
Range				

Sample Name: 480-121651-A-3-B MS Acquired: 7/27/2017 18:49:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08865	145.03	.46662	.46246	2.2247
Stddev	.00012	.11	.00194	.00047	.0050
%RSD	.13278	.07622	.41631	.10225	.22474
#1	.08874	144.95	.46525	.46212	2.2212
#2	.08857	145.11	.46800	.46279	2.2283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.34544	75.174	.36591	.3900	.44677
Stddev	.00060	.120	.00013	.0364	.00050
%RSD	.17272	.16002	.03502	9.327	.11234
#1	.34501	75.089	.36582	.4157	.44641
#2	.34586	75.259	.36600	.3643	.44712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.61654	1.0540	229.56	44.008	.51926
Stddev	.00151	.0014	.27	.049	.00038
%RSD	.24434	.13364	.11767	.11139	.07386
#1	.61548	1.0550	229.37	43.974	.51899
#2	.61761	1.0530	229.75	44.043	.51953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-B MS Acquired: 7/27/2017 18:49:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.279**	**4.1408**	**.36106**	**19.370**	**.61440**
Stddev	.148	.0067	.00087	.035	.00050
%RSD	.37778	.16244	.24080	.18228	.08184
#1	39.384	4.1455	.36167	19.345	.61475
#2	39.174	4.1360	.36044	19.395	.61404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3246**	**23.039**	**.28391**	**.34801**	**4.9020**
Stddev	.0004	.004	.00398	.00397	.0138
%RSD	.00616	.01667	1.4007	1.1411	.28140
#1	7.3250	23.036	.28672	.35082	4.8923
#2	7.3243	23.042	.28110	.34520	4.9118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76265**	**.70743**	**2.5717**	**.36153**	**.68041**
Stddev	.00022	.00194	.0004	.00009	.00140
%RSD	.02909	.27361	.01426	.02424	.20573
#1	.76281	.70606	2.5720	.36159	.67942
#2	.76250	.70880	2.5715	.36147	.68140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-B MS Acquired: 7/27/2017 18:49:32 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**5.0305**
Stddev	.0098
%RSD	.19430
#1	5.0374
#2	5.0236
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3169.8**	**2566.4**	**17990.**	**3478.5**
Stddev	.7	3.3	16.	10.0
%RSD	.02363	.12703	.08981	.28629
#1	3169.2	2564.1	17979.	3485.5
#2	3170.3	2568.7	18002.	3471.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.793%	106.75%	104.90%	111.94%
Range				

Sample Name: 480-121651-A-3-C MSD Acquired: 7/27/2017 18:52:47 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08833**	**140.69**	**.46253**	**.47591**	**2.1254**
Stddev	.00045	1.59	.00127	.00020	.0113
%RSD	.51364	1.1290	.27543	.04242	.52977
#1	.08801	139.57	.46343	.47577	2.1174
#2	.08865	141.81	.46163	.47606	2.1334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.34351**	**74.402**	**.36642**	**.3800**	**.45069**
Stddev	.00290	.622	.00106	.0106	.00061
%RSD	.84308	.83539	.29027	2.792	.13623
#1	.34146	73.962	.36567	.3875	.45026
#2	.34556	74.841	.36718	.3725	.45113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.60986**	**1.0112**	**230.29**	**43.465**	**.51124**
Stddev	.00273	.0045	1.07	.294	.00375
%RSD	.44789	.44509	.46427	.67757	.73357
#1	.60793	1.0080	229.53	43.257	.50858
#2	.61179	1.0144	231.04	43.673	.51389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-C MSD Acquired: 7/27/2017 18:52:47 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.782**	**3.7271**	**.36088**	**19.256**	**.59903**
Stddev	.125	.0132	.00073	.149	.00038
%RSD	.33093	.35514	.20242	.77640	.06294
#1	37.694	3.7177	.36140	19.150	.59876
#2	37.870	3.7365	.36037	19.362	.59929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6994**	**22.591**	**.28664**	**.34652**	**5.3987**
Stddev	.0029	.011	.00275	.00528	.0250
%RSD	.04356	.04918	.96090	1.5248	.46251
#1	6.6974	22.599	.28859	.35026	5.3810
#2	6.7015	22.583	.28469	.34279	5.4163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.76240**	**.68873**	**2.4908**	**.36613**	**.66683**
Stddev	.00105	.00318	.0081	.00320	.00049
%RSD	.13823	.46133	.32518	.87380	.07334
#1	.76165	.68649	2.4851	.36387	.66649
#2	.76314	.69098	2.4965	.36839	.66718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-3-C MSD Acquired: 7/27/2017 18:52:47 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**4.9100**
Stddev	.0154
%RSD	.31361
#1	4.8991
#2	4.9209
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3171.8**	**2561.4**	**17856.**	**3469.6**
Stddev	6.2	4.2	13.	20.9
%RSD	.19447	.16478	.07165	.60180
#1	3176.2	2564.4	17865.	3484.4
#2	3167.5	2558.4	17847.	3454.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.848%	106.54%	104.12%	111.66%
Range				

Sample Name: 480-121651-A-4-A Acquired: 7/27/2017 18:56:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00131**	**71.575**	**.09977**	**.05748**	**1.4343**
Stddev	.00043	.294	.00383	.00009	.0073
%RSD	33.044	.41108	3.8386	.15499	.50589
#1	-.00162	71.783	.10248	.05742	1.4394
#2	-.00100	71.367	.09707	.05755	1.4292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00573**	**45.670**	**.00998**	**.4200**	**.06307**
Stddev	.00001	.218	.00005	.0134	.00003
%RSD	.24139	.47711	.45429	3.188	.04057
#1	.00572	45.824	.00994	.4105	.06308
#2	.00574	45.516	.01001	.4294	.06305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16195**	**.59538**	**134.21**	**11.763**	**.13315**
Stddev	.00017	.00515	.52	.053	.00144
%RSD	.10198	.86566	.38738	.45134	1.0836
#1	.16184	.59173	134.58	11.800	.13417
#2	.16207	.59902	133.84	11.725	.13213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-4-A Acquired: 7/27/2017 18:56:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.118**	**2.8387**	**.01554**	**2.0564**	**.16869**
Stddev	.033	.0097	.00014	.0096	.00014
%RSD	.26818	.34236	.87762	.46760	.08214
#1	12.095	2.8318	.01544	2.0632	.16879
#2	12.141	2.8456	.01564	2.0496	.16859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.6394**	**2.8230**	**.00852**	**.00274**	**6.2894**
Stddev	.0045	.0100	.00091	.00185	.0381
%RSD	.09755	.35413	10.710	67.609	.60508
#1	4.6362	2.8160	.00916	.00405	6.2625
#2	4.6426	2.8301	.00787	.00143	6.3163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24233**	**.41117**	**1.3712**	**-.00128**	**.20322**
Stddev	.00139	.00239	.0041	.00065	.00055
%RSD	.57388	.58188	.29983	50.329	.27041
#1	.24135	.41286	1.3683	-.00174	.20361
#2	.24331	.40947	1.3741	-.00083	.20283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-4-A Acquired: 7/27/2017 18:56:02 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.7539**
Stddev	.0119
%RSD	.43157
#1	2.7623
#2	2.7455
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3391.8**	**2652.8**	**18699.**	**3517.9**
Stddev	1.7	3.2	17.	10.8
%RSD	.04885	.12068	.09162	.30757
#1	3392.9	2655.0	18711.	3510.2
#2	3390.6	2650.5	18687.	3525.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.732%	110.34%	109.04%	113.21%
Range				

Sample Name: 480-121651-A-5-A Acquired: 7/27/2017 18:59:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00111	86.938	.16359	.06909	4.2536
Stddev	.00048	.299	.00092	.00014	.0350
%RSD	43.270	.34385	.55941	.20974	.82337
#1	.00077	86.727	.16424	.06899	4.2288
#2	.00146	87.150	.16295	.06919	4.2784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00669	44.882	.01473	.3631	.07504
Stddev	.00001	.356	.00015	.0031	.00030
%RSD	.14639	.79406	1.0274	.8449	.39400
#1	.00669	44.630	.01462	.3609	.07525
#2	.00668	45.134	.01484	.3653	.07483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.26424	.75734	190.98	12.561	.15299
Stddev	.00041	.00595	1.79	.171	.00003
%RSD	.15680	.78624	.93809	1.3652	.02259
#1	.26454	.75313	189.72	12.440	.15296
#2	.26395	.76156	192.25	12.683	.15301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-5-A Acquired: 7/27/2017 18:59:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.604**	**3.2902**	**.01410**	**1.2158**	**.21963**
Stddev	.031	.0063	.00011	.0013	.00022
%RSD	.18936	.19021	.74942	.10511	.09897
#1	16.582	3.2858	.01418	1.2167	.21978
#2	16.626	3.2947	.01403	1.2149	.21948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7044**	**4.5976**	**.01379**	**.01065**	**4.6143**
Stddev	.0203	.0017	.00006	.00071	.0160
%RSD	.26398	.03684	.44904	6.6803	.34630
#1	7.6900	4.5964	.01383	.01015	4.6030
#2	7.7188	4.5988	.01374	.01115	4.6256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41289**	**.35441**	**1.4114**	**-.00042**	**.28017**
Stddev	.00076	.00338	.0131	.00093	.00023
%RSD	.18388	.95233	.93044	219.61	.08277
#1	.41342	.35202	1.4022	-.00108	.28034
#2	.41235	.35680	1.4207	.00023	.28001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121651-A-5-A Acquired: 7/27/2017 18:59:21 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**7.3112**
Stddev	.0011
%RSD	.01504
#1	7.3119
#2	7.3104
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3352.4**	**2599.5**	**18233.**	**3434.7**
Stddev	2.2	5.1	3.	48.4
%RSD	.06558	.19561	.01473	1.4085
#1	3350.8	2595.9	18231.	3468.9
#2	3353.9	2603.1	18235.	3400.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.678%	108.12%	106.32%	110.53%
Range				

Sample Name: CCV-4147885 Acquired: 7/27/2017 19:02:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50793**	**24.628**	**.50100**	**.49962**	**.49163**
Stddev	.00039	.178	.00062	.00019	.00083
%RSD	.07642	.72292	.12380	.03753	.16949
#1	.50820	24.502	.50144	.49949	.49104
#2	.50765	24.754	.50056	.49975	.49222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49467**	**24.322**	**.49894**	**.0081**	**.49272**
Stddev	.00325	.146	.00023	.0295	.00096
%RSD	.65690	.60045	.04691	365.5	.19569
#1	.49238	24.219	.49878	-.0128	.49203
#2	.49697	24.425	.49911	.0289	.49340
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51374**	**.49880**	**23.492**	**24.816**	**.50683**
Stddev	.00130	.00305	.096	.187	.00396
%RSD	.25270	.61136	.40965	.75356	.78062
#1	.51466	.49665	23.424	24.684	.50404
#2	.51283	.50096	23.560	24.948	.50963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 19:02:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.770**	**.51041**	**.50466**	**25.003**	**.49737**
Stddev	.056	.00068	.00010	.181	.00128
%RSD	.22418	.13236	.02000	.72222	.25774
#1	24.730	.50993	.50473	24.876	.49646
#2	24.809	.51089	.50459	25.131	.49827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49598**	**24.785**	**.49645**	**.50222**	**23.574**
Stddev	.00333	.005	.00199	.00171	.191
%RSD	.67179	.01896	.40066	.34126	.80978
#1	.49363	24.781	.49504	.50343	23.439
#2	.49834	24.788	.49785	.50101	23.709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50229**	**.48273**	**.49972**	**.49781**	**.51340**
Stddev	.00029	.00233	.00043	.00078	.00144
%RSD	.05707	.48214	.08605	.15655	.28114
#1	.50209	.48109	.49941	.49726	.51238
#2	.50249	.48438	.50002	.49836	.51442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4147885 Acquired: 7/27/2017 19:02:39 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50951
Stddev	.00017
%RSD	.03349
#1	.50963
#2	.50939
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3444.4	2398.0	16881.	3152.9
Stddev	9.4	3.5	3.	20.7
%RSD	.27187	.14414	.01741	.65518
#1	3451.0	2400.4	16879.	3167.5
#2	3437.7	2395.5	16883.	3138.3

Sample Name: CCB-4130963 Acquired: 7/27/2017 19:05:48 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.00039**	**.00049**	**-.00023**	**.00004**
Stddev	.00048	.02727	.00141	.00015	.00000
%RSD	38.843	6997.7	285.93	64.621	5.5401
#1	-.00090	.01967	.00149	-.00012	.00004
#2	-.00158	-.01889	-.00051	-.00033	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00230**	**.00010**	**.0152**	**.00028**
Stddev	.00006	.00152	.00006	.0277	.00007
%RSD	206.09	66.043	61.544	182.5	25.674
#1	-.00001	.00338	.00014	.0347	.00023
#2	.00007	.00123	.00006	-.0044	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00104**	**.00272**	**-.00861**	**-.00257**
Stddev	.00002	.00021	.00223	.01977	.00012
%RSD	7.2714	19.839	81.976	229.55	4.7235
#1	.00035	-.00090	.00430	.00537	-.00266
#2	.00032	-.00119	.00114	-.02259	-.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 19:05:48 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00218**	**.00005**	**-.00003**	**.03205**	**.00010**
Stddev	.00055	.00001	.00005	.00097	.00014
%RSD	25.005	13.791	145.65	3.0300	135.40
#1	.00257	.00004	.00000	.03274	.00021
#2	.00180	.00005	-.00006	.03137	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**.00540**	**.00015**	**-.00305**	**.02156**
Stddev	.00016	.00062	.00174	.00145	.00096
%RSD	9.1129	11.490	1166.6	47.414	4.4579
#1	.00188	.00584	.00138	-.00203	.02088
#2	.00166	.00496	-.00108	-.00407	.02224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00016**	**.00044**	**.00169**	**-.00028**
Stddev	.00019	.00010	.00038	.00021	.00050
%RSD	61.794	62.652	86.874	12.420	180.82
#1	-.00018	.00009	.00071	.00184	.00008
#2	-.00045	.00023	.00017	.00154	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4130963 Acquired: 7/27/2017 19:05:48 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00017
Stddev	.00062
%RSD	361.09
#1	-.00027
#2	.00061
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3783.3	2430.0	17234.	3106.9
Stddev	4.0	4.6	9.	2.7
%RSD	.10588	.18766	.05272	.08535
#1	3780.5	2426.7	17240.	3108.8
#2	3786.1	2433.2	17227.	3105.0

Sample Name: CCVL-4147888 Acquired: 7/27/2017 19:09:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00486**	**.20020**	**.01613**	**.01985**	**.00208**
Stddev	.00000	.00808	.00068	.00001	.00003
%RSD	.00432	4.0383	4.2456	.04867	1.2415
#1	.00486	.19449	.01662	.01984	.00206
#2	.00486	.20592	.01565	.01985	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.48503**	**.00210**	**.0306**	**.00397**
Stddev	.00003	.00061	.00016	.0171	.00001
%RSD	1.2210	.12487	7.6167	55.84	.29685
#1	.00206	.48546	.00221	.0427	.00396
#2	.00209	.48460	.00199	.0185	.00398
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00497**	**.01017**	**.04927**	**.47188**	**.02914**
Stddev	.00050	.00155	.00119	.02396	.00079
%RSD	9.9873	15.257	2.4181	5.0784	2.7011
#1	.00532	.01127	.05011	.45493	.02970
#2	.00462	.00907	.04843	.48882	.02859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 19:09:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19834**	**.00300**	**.00992**	**1.0154**	**.00981**
Stddev	.00271	.00001	.00007	.0052	.00014
%RSD	1.3662	.34129	.72725	.51242	1.3971
#1	.20025	.00300	.00997	1.0118	.00971
#2	.19642	.00299	.00987	1.0191	.00990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01051**	**.19341**	**.02043**	**.02139**	**.49367**
Stddev	.00072	.00227	.00019	.00280	.01054
%RSD	6.8239	1.1756	.93448	13.090	2.1355
#1	.01102	.19180	.02029	.01941	.50112
#2	.01000	.19502	.02056	.02337	.48621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00901**	**.00497**	**.00574**	**.02110**	**.00449**
Stddev	.00071	.00001	.00061	.00029	.00065
%RSD	7.8251	.17652	10.604	1.3553	14.456
#1	.00851	.00497	.00531	.02130	.00403
#2	.00951	.00498	.00617	.02090	.00495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4147888 Acquired: 7/27/2017 19:09:13 Type: QC
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01045**
Stddev	.00017
%RSD	1.5891
#1	.01057
#2	.01034
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3778.3**	**2441.1**	**17380.**	**3142.9**
Stddev	2.3	1.5	81.	5.9
%RSD	.06037	.06194	.46635	.18796
#1	3779.9	2442.2	17437.	3138.8
#2	3776.7	2440.0	17323.	3147.1

Sample Name: 480-121667-A-1-B Acquired: 7/27/2017 19:12:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00189**	**54.678**	**.03593**	**.00808**	**.20800**
Stddev	.00049	.032	.00082	.00041	.00011
%RSD	25.713	.05770	2.2749	5.0753	.05129
#1	-.00223	54.700	.03651	.00837	.20792
#2	-.00154	54.655	.03535	.00779	.20807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00260**	**20.470**	**.00170**	**.3216**	**.04875**
Stddev	.00009	.061	.00002	.0075	.00011
%RSD	3.3661	.29694	1.3001	2.339	.23150
#1	.00254	20.427	.00172	.3163	.04883
#2	.00266	20.513	.00169	.3269	.04867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13471**	**.10163**	**81.876**	**5.9127**	**.07460**
Stddev	.00083	.00067	.590	.0182	.00041
%RSD	.61568	.66111	.72115	.30733	.55353
#1	.13530	.10210	81.458	5.8999	.07431
#2	.13413	.10115	82.293	5.9256	.07489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121667-A-1-B Acquired: 7/27/2017 19:12:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.408**	**1.2375**	**.00169**	**1.4830**	**.09244**
Stddev	.048	.0045	.00003	.0065	.00018
%RSD	.20358	.36710	2.0292	.44043	.19688
#1	23.442	1.2407	.00167	1.4783	.09257
#2	23.374	1.2343	.00171	1.4876	.09231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

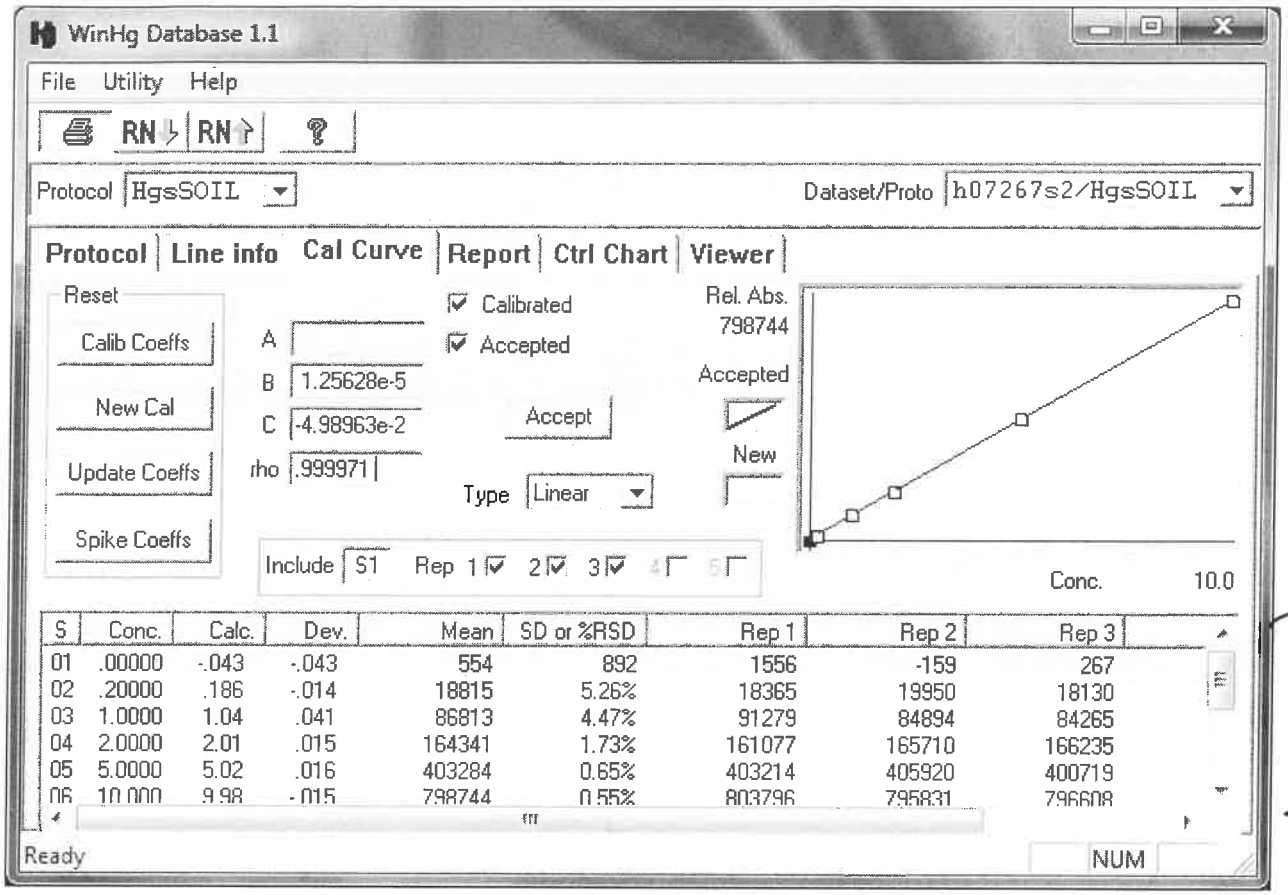
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30405**	**3.6380**	**.00066**	**-.00110**	**2.3286**
Stddev	.00092	.0002	.00063	.00150	.0290
%RSD	.30310	.00491	95.360	136.00	1.2447
#1	.30471	3.6379	.00022	-.00004	2.3491
#2	.30340	3.6382	.00111	-.00216	2.3081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06019**	**.10986**	**4.9554**	**-.00355**	**.23628**
Stddev	.00036	.00088	.0036	.00149	.00064
%RSD	.59795	.80379	.07284	42.073	.26950
#1	.05994	.10924	4.9580	-.00249	.23673
#2	.06045	.11049	4.9529	-.00460	.23582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-121667-A-1-B Acquired: 7/27/2017 19:12:37 Type: Unk
Method: ICAP2 June 2017(v62) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.28781
Stddev	.00147
%RSD	.51012
#1	.28885
#2	.28678
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3473.2	2582.1	18261.	3428.6
Stddev	1.8	2.6	8.	23.0
%RSD	.05128	.10083	.04436	.66980
#1	3471.9	2580.3	18255.	3444.8
#2	3474.4	2583.9	18266.	3412.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.909%	107.40%	106.48%	110.34%
Range				



L2
7/26/17

4159077

Cal: H07267cs

Run: H07267s2

Batches: 368567
368569

Line	Conc.	Units	SD/RSD	1	2	3	4	5

4159077

*** Check Standard: 2 Ck2ICV Seq: 1 17:30:13 26 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.4	2.89	3.00	ppb	.000

*** Check Standard: 1 Ck1ICB BB 07-27-17 Seq: 2 17:31:49 26 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.026	.200	ppb	.000

*** Check Standard: 4 Ck4ICVL BB 07-27-17 Seq: 3 17:33:39 26 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		81.8	.164	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 17:35:09 26 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.6	1.91	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 17:36:30 26 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.036	.200	ppb	.000

*** Sample ID: Seq: 6 17:37:50 26 Jul 17 HG
MB 480-368567/1-A

Hg	-.038	ppb	.000	-.038

*** Sample ID: Seq: 7 17:39:19 26 Jul 17 HG
LCSSRM 480-368567/2-A BB 07-27-17

Hg	3.61	ppb	.000	3.61

*** Sample ID: Seq: 8 17:40:52 26 Jul 17 HG
480-121458-C-2-B

Hg	.384	ppb	.000	.384

*** Sample ID: Seq: 9 17:42:13 26 Jul 17 HG
480-121458-C-5-B

Hg	2.01	ppb	.000	2.01

*** Sample ID: Seq: 10 17:44:03 26 Jul 17 HG
480-121458-D-6-B

Hg	1.64	ppb	.000	1.64

*** Sample ID: Seq: 11 17:45:59 26 Jul 17 HG
480-121458-D-8-B

Hg	2.26	ppb	.000	2.26

*** Sample ID: Seq: 12 17:47:19 26 Jul 17 HG
480-121458-B-13-B

Hg	1.98	ppb	.000	1.98

*** Sample ID: Seq: 13 17:48:54 26 Jul 17 HG
480-121501-C-1-B

Hg	.090	ppb	.000	.090

*** Sample ID: Seq: 14 17:50:26 26 Jul 17 HG
480-121501-C-2-B

Hg	2.70	ppb	.000	2.70

*** Sample ID: Seq: 15 17:51:59 26 Jul 17 HG
480-121501-C-3-D

Hg	7.74	ppb	.000	7.74

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 17:53:20 26 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.9	1.88	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 17:55:10 26 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.036	.200	ppb	.000

*** Sample ID: Seq: 18 17:56:32 26 Jul 17 HG
480-121501-C-3-Dsd@5

Hg	1.71	ppb	.000	1.71

*** Sample ID: Seq: 19 17:57:53 26 Jul 17 HG
480-121501-C-3-E MS

Hg	19.3 H	ppb	.000	19.3

*** Sample ID: Seq: 20 17:59:29 26 Jul 17 HG
480-121501-C-3-F MSD

Hg	11.8 H	ppb	.000	11.8

*** Sample ID: Seq: 21 18:00:53 26 Jul 17 HG
480-121501-C-4-B

Hg	-.017	ppb	.000	-.017

*** Sample ID: Seq: 22 18:02:13 26 Jul 17 HG
480-121501-C-5-B

Hg	.006	ppb	.000	.006

*** Sample ID: Seq: 23 18:03:34 26 Jul 17 HG
480-121501-C-6-B

Hg	.045	ppb	.000	.045

*** Sample ID: Seq: 24 18:04:55 26 Jul 17 HG
480-121506-C-16-A

Hg	.492	ppb	.000	.492

*** Sample ID: Seq: 25 18:06:17 26 Jul 17 HG
480-121506-C-20-A

Hg	.256	ppb	.000	.256

*** Sample ID: Seq: 26 18:07:51 26 Jul 17 HG
480-121506-C-21-A

Hg	.624	ppb	.000	.624

*** Sample ID: Seq: 27 18:09:13 26 Jul 17 HG
480-121506-C-21-B MS

Hg	4.05	ppb	.000	4.05

*** Check Standard: 3 Ck3CCV Seq: 28 18:11:15 26 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.8	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 18:12:49 26 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.042	.200	ppb	.000

*** Sample ID: Seq: 30 18:14:35 26 Jul 17 HG
480-121506-C-21-C MS

Hg	4.12	ppb	.000	4.12

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 18:16:18 26 Jul 17 HG
480-121506-C-22-A

Hg	.611	ppb	.000	.611				

*** Sample ID: Seq: 32 18:17:45 26 Jul 17 HG
480-121506-C-23-A

Hg	.670	ppb	.000	.670				

*** Sample ID: Seq: 33 18:19:18 26 Jul 17 HG
480-121506-C-27-A

Hg	.673	ppb	.000	.673				

*** Sample ID: Seq: 34 18:20:42 26 Jul 17 HG
MB 480-368569/1-A

Hg	-.050	ppb	.000	-.050				

*** Sample ID: Seq: 35 18:22:13 26 Jul 17 HG
LCSSRM 480-368569/2-A 10
BB 07-27-17

Hg	4.05	ppb	.000	4.05				

*** Sample ID: Seq: 36 18:23:56 26 Jul 17 HG
480-121550-C-1-B

Hg	2.16	ppb	.000	2.16				

*** Sample ID: Seq: 37 18:25:16 26 Jul 17 HG
480-121550-D-3-B@5

Hg	2.04	ppb	.000	2.04				

*** Sample ID: Seq: 38 18:26:58 26 Jul 17 HG
480-121550-A-8-B

Hg	2.31	ppb	.000	2.31				

*** Sample ID: Seq: 39 18:28:31 26 Jul 17 HG
480-121550-A-11-B

Hg	1.68	ppb	.000	1.68				

*** Check Standard: 3 Ck3CCV Seq: 40 18:30:03 26 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.7	1.93	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 41 18:31:54 26 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.047	.200	ppb	.000

*** Sample ID: Seq: 42 18:33:25 26 Jul 17 HG
480-121578-C-1-A

Hg	.316	ppb	.000	.316				

*** Sample ID: Seq: 43 18:34:46 26 Jul 17 HG
480-121578-C-2-A

Hg	.385	ppb	.000	.385				

*** Sample ID: Seq: 44 18:36:12 26 Jul 17 HG
480-121578-A-3-A

Hg	.142	ppb	.000	.142				

*** Sample ID: Seq: 45 18:37:59 26 Jul 17 HG
480-121578-A-3-Asd@5

Hg	.001	ppb	.000	.001				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 46 18:40:20 26 Jul 17 HG
480-121578-C-3-A MS

Hg	3.85	ppb	.000	3.85				

*** Sample ID: Seq: 47 18:41:41 26 Jul 17 HG
480-121578-C-3-B MSD

Hg	3.92	ppb	.000	3.92				

*** Sample ID: Seq: 48 18:43:04 26 Jul 17 HG
480-121578-C-4-A

Hg	.301	ppb	.000	.301				

*** Sample ID: Seq: 49 18:44:25 26 Jul 17 HG
480-121578-C-5-A

Hg	.572	ppb	.000	.572				

*** Sample ID: Seq: 50 18:45:47 26 Jul 17 HG
480-121578-C-6-A

Hg	.261	ppb	.000	.261				

*** Sample ID: Seq: 51 18:47:32 26 Jul 17 HG
480-121578-C-7-A

Hg	.553	ppb	.000	.553				

*** Check Standard: 3 Ck3CCV Seq: 52 18:49:05 26 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.0	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 53 18:50:27 26 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.036	.200	ppb	.000

*** Sample ID: Seq: 54 18:52:27 26 Jul 17 HG
480-121578-A-8-A

Hg	.343	ppb	.000	.343				

*** Check Standard: 3 Ck3CCV Seq: 55 18:53:50 26 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.7	1.89	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 56 18:55:13 26 Jul 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.062	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 57 18:57:03 26 Jul 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		81.7	.163	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368566 Batch Start Date: 07/25/17 15:15 Batch Analyst: Bauer, Elizabeth M

Batch Method: 3050B Batch End Date: 07/25/17 22:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MED_01_Si 00099	MED_01_W1 00044	MED_02_W2 00040
MB 480-368566/1		3050B, 6010C		CALC NOT SET TO RUN	+0.4751 g	50 mL			
LCSSRM 480-368566/2		3050B, 6010C		CALC NOT SET TO RUN	+0.4490 g	50 mL			
480-121501-C-1	TP-13	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4995 g	50 mL			
480-121501-C-2	TP-12	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4660 g	50 mL			
480-121501-C-3	TP-11	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4718 g	50 mL			
480-121501-C-3 MS	TP-11	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5270 g	50 mL	0.5 mL	0.5 mL	0.5 mL
480-121501-C-3 MSD	TP-11	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4664 g	50 mL	0.5 mL	0.5 mL	0.5 mL
480-121501-C-4	TP-16	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4990 g	50 mL			
480-121501-C-5	TP-17	3050B, 6010C	T	CALC NOT SET TO RUN	+0.5359 g	50 mL			
480-121501-C-6	DUP	3050B, 6010C	T	CALC NOT SET TO RUN	+0.4917 g	50 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_03_Ag 00114	MED_04_Sn 00101	MED_05_S 00059	MED_SRM_D087 00004		
MB 480-368566/1		3050B, 6010C							
LCSSRM 480-368566/2		3050B, 6010C					+0.449 g		
480-121501-C-1	TP-13	3050B, 6010C	T						
480-121501-C-2	TP-12	3050B, 6010C	T						
480-121501-C-3	TP-11	3050B, 6010C	T						
480-121501-C-3 MS	TP-11	3050B, 6010C	T	0.5 mL	0.5 mL	0.5 mL			
480-121501-C-3 MSD	TP-11	3050B, 6010C	T	0.5 mL	0.5 mL	0.5 mL			
480-121501-C-4	TP-16	3050B, 6010C	T						
480-121501-C-5	TP-17	3050B, 6010C	T						
480-121501-C-6	DUP	3050B, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368566 Batch Start Date: 07/25/17 15:15 Batch Analyst: Bauer, Elizabeth M

Batch Method: 3050B Batch End Date: 07/25/17 22:20

Batch Notes	
Balance ID	25850472
Batch Comment	70227752(Push Filters)
Blank Soil Lot Number	3978954
First End time	2220
Hydrogen Peroxide ID	40948897
Lot # of hydrochloric acid	4120007
Lot # of Nitric Acid	4106408
Hot Block ID	F
Oven, Bath or Block Temperature 1	92.5 Degrees C
Oven, Bath or Block Temperature 2	Auto Degrees C
Pipette ID	MDL4
First Start time	1515
Thermometer ID	151913830
Digestion Tube/Cup ID	1703076
Uncorrected Temperature	92.2 Celsius
Uncorrected Temperature 2	Auto Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368567 Batch Start Date: 07/26/17 16:00 Batch Analyst: Booth, Bryan M

Batch Method: 7471B Batch End Date: 07/26/17 16:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_SRM_D087 00006	MEH_HG1_WKG 01537		
MB 480-368567/1		7471B, 7471B		+0.6522 g	50 mL				
LCSSRM 480-368567/2		7471B, 7471B		+0.1600 g	50 mL	+0.16 g			
480-121501-C-1	TP-13	7471B, 7471B	T	+0.6425 g	50 mL				
480-121501-C-2	TP-12	7471B, 7471B	T	+0.6584 g	50 mL				
480-121501-C-3	TP-11	7471B, 7471B	T	+0.6478 g	50 mL				
480-121501-C-3 MS	TP-11	7471B, 7471B	T	+0.6462 g	50 mL		2 mL		
480-121501-C-3 MSD	TP-11	7471B, 7471B	T	+0.6202 g	50 mL		2 mL		
480-121501-C-4	TP-16	7471B, 7471B	T	+0.5953 g	50 mL				
480-121501-C-5	TP-17	7471B, 7471B	T	+0.6261 g	50 mL				
480-121501-C-6	DUP	7471B, 7471B	T	+0.6149 g	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride ID	4011386
Batch Comment	1 & 2 Prep 0805
Digestion End Time	1630
Digestion Start Time	1600
Lot # of hydrochloric acid	4012715
Lot # of Nitric Acid	4059485
Hot Block ID	HG-B
Potassium Permanganate ID	4077814
Oven, Bath or Block Temperature 1	96.4
Pipette ID	AN-6 for Std 1+2
Stannous Chloride ID	4060686
Thermometer ID	160510054
Digestion Tube/Cup ID	1605323
Uncorrected Temperature	96.6 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368567 Batch Start Date: 07/26/17 16:00 Batch Analyst: Booth, Bryan M

Batch Method: 7471B Batch End Date: 07/26/17 16:30

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG No.:

Project: Nash Rd. Wheatfield #932054

Client Sample ID	Lab Sample ID
TP-13	480-121501-1
TP-12	480-121501-2
TP-11	480-121501-3
TP-16	480-121501-4
TP-17	480-121501-5
DUP	480-121501-6

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-121501-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 07/22/2017 07:24 End Date: 07/25/2017 14:58

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			07:24																					
ZZZZZZ			07:24																					
ZZZZZZ			07:24																					
ZZZZZZ			07:24																					
ZZZZZZ			07:24																					
ZZZZZZ			07:24																					
480-121501-1	1	T	07:24	X	X																			
480-121501-2	1	T	07:24	X	X																			
480-121501-3	1	T	07:24	X	X																			
480-121501-4	1	T	07:24	X	X																			
480-121501-5	1	T	07:24	X	X																			
480-121501-6	1	T	07:24	X	X																			
ZZZZZZ			07:24																					
ZZZZZZ			07:24																					
ZZZZZZ			07:24																					
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ZZZZZZ			07:24																					
ZZZZZZ			07:24																					
ZZZZZZ			07:24																					
480-121501-3 MS	1	T	14:58	X	X																			
480-121501-3 MSD	1	T	14:58	X	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-121501-1

SDG No.:

Batch Number: 368209 Batch Start Date: 07/22/17 07:24 Batch Analyst: Williams, Christopher S

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-121501-A-1	TP-13	Moisture	T	7	4.30 g	16.47 g	14.38 g		
480-121501-A-2	TP-12	Moisture	T	8	4.30 g	22.62 g	18.24 g		
480-121501-A-3	TP-11	Moisture	T	9	4.30 g	23.93 g	20.23 g		
480-121501-A-4	TP-16	Moisture	T	10	4.30 g	19.80 g	16.93 g		
480-121501-A-5	TP-17	Moisture	T	11	4.30 g	19.04 g	16.43 g		
480-121501-A-6	DUP	Moisture	T	12	4.30 g	16.70 g	14.69 g		
480-121501-A-3 MS	TP-11	Moisture	T	9	4.30 g	23.93 g	20.23 g		
480-121501-A-3 MSD	TP-11	Moisture	T	9	4.30 g	23.93 g	20.23 g		

Batch Notes	
Batch Comment	PP-F-9B-16
Date samples were placed in the oven	22JULY2017
Oven Temp In	106 Degrees C
Time samples were place in the oven	0730

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record

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Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TAL-4124 (1007)

Client: LIRO	Project Manager: Craig Taylor	Date: 7/21/17	Chain of Custody Number: 237586	
Address: 690 Delaware Ave	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1	
City: Buffalo / State: NY / Zip Code: 14209	Site Contact: Russ Charno	Lab Contact: Orletta	Analysis (Attach list if more space is needed)	
Project Name and Location (State): Nash Rd, Wheatfield	Carrier/Waybill Number			
Contract/Purchase Order/Quote No.: 480079G2 NYSDEC# 932054				

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Other	6010C TAL Metals	7471B Mercury	8081B TCL Pest	8082A TCL PCB	8270D SIM TCL	8260C TCL VOA
TP-13	7-21-17	0900				X													
TP-12		1000																	
TP-11		1100																	
TP-16		1400																	
TP-17		1300																	
DUP		—																	
MS/MSD (TP-11)		1100																	

480-121501 COC

Special Instructions/ Conditions of Receipt

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other 10 Day

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	7-21-17	4:30	1. Received By	7/21/17	1630
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

4.1 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-121501-1

Login Number: 121501
List Number: 1
Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	liro
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Job Number: 480-123215-1

Job Description: Nash Rd. Wheatfield #932054

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, NY 14203

Attention: Mr. Glenn May

Approved for release.
Orlette S Johnson
Senior Project Manager
8/31/2017 3:04 PM

Orlette S Johnson, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0864
orlette.johnson@testamericainc.com
08/31/2017

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Job Number: 480-123215-1

Job Description: Nash Rd. Wheatfield #932054

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Approved for release.
Orlette S Johnson
Senior Project Manager
8/31/2017 3:04 PM

Orlette S Johnson

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Job Narrative
480-123215-1

Receipt
The samples were received on 8/24/2017 5:02 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-374280 recovered above the upper control limit for 4,6-Dinitro-2-methylphenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: NS-LDP-001-GW (480-123215-1), NS-LDP-002-GW (480-123215-2) and NS-LDP-003-GW (480-123215-3).

Method(s) 8270D: Due to an increase in the spiking concentration required for other analytes of interest, the following compounds have been elevated to a level at the upper range of the initial calibration: 3,3'-Dichlorobenzidine. The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) recovered within acceptable limits for these analytes and have been qualified with an "E" flag. (LCS 480-374019/2-A)

Method(s) 8270D: The initial calibration curve analyzed in analytical batch 480-372093 was outside method criteria for the analyte 4,6-Dinitro-2-methylphenol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte is considered an estimated concentration.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081B: The following sample was diluted due to the nature of the sample matrix: NS-LDP-002-GW (480-123215-2). As such, surrogate recoveries are below the calibration range,estimated, and not representative. Elevated reporting limits (RLs) are provided.

Method(s) 8081B: For method 8081, the recovery of the one surrogate in samples NS-LDP-001-GW (480-123215-1) and NS-LDP-003-GW (480-123215-3) exceeds quality control limits due to the sample matrix. The recovery of the secondary surrogate is within quality control criteria; no corrective action is required.

Method(s) 8081B: All primary data for analytical batch 374025 is reported from the RTX-CLPI column.

Method(s) 8082A: All primary data for analytical batch 374407 is reported from the ZB-5 column.

Method(s) 8082A: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-373892.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-123215-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-123215-1	NS-LDP-001-GW	Water	08/24/17 00:00	08/24/17 17:02
480-123215-2	NS-LDP-002-GW	Water	08/24/17 00:00	08/24/17 17:02
480-123215-3	NS-LDP-003-GW	Water	08/24/17 00:00	08/24/17 17:02

Detection Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-123215-1

Client Sample ID: NS-LDP-001-GW — Lab Sample ID: 480-123215-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.8	J	10	3.0	ug/L	1		8260C	Total/NA
Phenanthrene	0.71	J	5.0	0.44	ug/L	1		8270D	Total/NA
4,4'-DDD	0.042	J	0.051	0.0094	ug/L	1		8081B	Total/NA
Aldrin	0.019	J	0.051	0.0083	ug/L	1		8081B	Total/NA
alpha-BHC	0.054	B	0.051	0.0079	ug/L	1		8081B	Total/NA
Aluminum	2.8		0.20	0.060	mg/L	1		6010C	Total Recoverable
Barium	0.057		0.0020	0.00070	mg/L	1		6010C	Total Recoverable
Calcium	160		0.50	0.10	mg/L	1		6010C	Total Recoverable
Chromium	0.0040		0.0040	0.0010	mg/L	1		6010C	Total Recoverable
Cobalt	0.0012	J	0.0040	0.00063	mg/L	1		6010C	Total Recoverable
Copper	0.0034	J	0.010	0.0016	mg/L	1		6010C	Total Recoverable
Iron	2.6		0.050	0.019	mg/L	1		6010C	Total Recoverable
Magnesium	41.6		0.20	0.043	mg/L	1		6010C	Total Recoverable
Manganese	0.066	B	0.0030	0.00040	mg/L	1		6010C	Total Recoverable
Nickel	0.0055	J	0.010	0.0013	mg/L	1		6010C	Total Recoverable
Potassium	1.3		0.50	0.10	mg/L	1		6010C	Total Recoverable
Sodium	15.8		1.0	0.32	mg/L	1		6010C	Total Recoverable
Vanadium	0.0066		0.0050	0.0015	mg/L	1		6010C	Total Recoverable
Zinc	0.011		0.010	0.0015	mg/L	1		6010C	Total Recoverable
Barium	0.040		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	157		0.50	0.10	mg/L	1		6010C	Dissolved
Cobalt	0.00066	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Magnesium	41.3		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.031		0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0039	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	0.40	J B	0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	16.7		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.011	B	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: NS-LDP-002-GW — Lab Sample ID: 480-123215-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Hexanone	1.5	J	5.0	1.2	ug/L	1		8260C	Total/NA
Acetone	17		10	3.0	ug/L	1		8260C	Total/NA
Phenanthrene	0.47	J	5.0	0.44	ug/L	1		8270D	Total/NA
4,4'-DDT	0.086	J	0.25	0.055	ug/L	5		8081B	Total/NA
Aldrin	0.073	J	0.25	0.041	ug/L	5		8081B	Total/NA
gamma-BHC (Lindane)	0.072	J	0.25	0.040	ug/L	5		8081B	Total/NA
Aluminum	1.1		0.20	0.060	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: NS-LDP-002-GW (Continued) — Lab Sample ID: 480-123215-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.076		0.0020	0.00070	mg/L	1		6010C	Total Recoverable
Calcium	148		0.50	0.10	mg/L	1		6010C	Total Recoverable
Chromium	0.0017	J	0.0040	0.0010	mg/L	1		6010C	Total Recoverable
Copper	0.0030	J	0.010	0.0016	mg/L	1		6010C	Total Recoverable
Iron	1.3		0.050	0.019	mg/L	1		6010C	Total Recoverable
Magnesium	37.3		0.20	0.043	mg/L	1		6010C	Total Recoverable
Manganese	0.044	B	0.0030	0.00040	mg/L	1		6010C	Total Recoverable
Nickel	0.0024	J	0.010	0.0013	mg/L	1		6010C	Total Recoverable
Potassium	1.9		0.50	0.10	mg/L	1		6010C	Total Recoverable
Sodium	23.4		1.0	0.32	mg/L	1		6010C	Total Recoverable
Vanadium	0.0029	J	0.0050	0.0015	mg/L	1		6010C	Total Recoverable
Zinc	0.0078	J	0.010	0.0015	mg/L	1		6010C	Total Recoverable
Barium	0.066		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	139		0.50	0.10	mg/L	1		6010C	Dissolved
Copper	0.0022	J	0.010	0.0016	mg/L	1		6010C	Dissolved
Magnesium	34.7		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.011		0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0035	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	1.5	B	0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	23.5		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.013	B	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: NS-LDP-003-GW — Lab Sample ID: 480-123215-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	22		10	3.0	ug/L	1		8260C	Total/NA
Acetophenone	0.61	J	5.0	0.54	ug/L	1		8270D	Total/NA
Di-n-butyl phthalate	0.34	J	5.0	0.31	ug/L	1		8270D	Total/NA
Phenanthrene	0.49	J	5.0	0.44	ug/L	1		8270D	Total/NA
4,4'-DDD	0.044	J	0.052	0.0096	ug/L	1		8081B	Total/NA
4,4'-DDT	0.043	J	0.052	0.011	ug/L	1		8081B	Total/NA
Aldrin	0.021	J	0.052	0.0084	ug/L	1		8081B	Total/NA
Endosulfan I	0.029	J	0.052	0.011	ug/L	1		8081B	Total/NA
Aluminum	1.5		0.20	0.060	mg/L	1		6010C	Total Recoverable
Barium	0.052		0.0020	0.00070	mg/L	1		6010C	Total Recoverable
Calcium	187		0.50	0.10	mg/L	1		6010C	Total Recoverable
Chromium	0.0021	J	0.0040	0.0010	mg/L	1		6010C	Total Recoverable
Copper	0.0027	J	0.010	0.0016	mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: NS-LDP-003-GW (Continued)

Lab Sample ID: 480-123215-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1.5		0.050	0.019	mg/L	1		6010C	Total Recoverable
Lead	0.0031	J	0.010	0.0030	mg/L	1		6010C	Total Recoverable
Magnesium	48.8		0.20	0.043	mg/L	1		6010C	Total Recoverable
Manganese	0.049	B	0.0030	0.00040	mg/L	1		6010C	Total Recoverable
Nickel	0.0024	J	0.010	0.0013	mg/L	1		6010C	Total Recoverable
Potassium	0.99		0.50	0.10	mg/L	1		6010C	Total Recoverable
Sodium	13.8		1.0	0.32	mg/L	1		6010C	Total Recoverable
Vanadium	0.0035	J	0.0050	0.0015	mg/L	1		6010C	Total Recoverable
Zinc	0.0073	J	0.010	0.0015	mg/L	1		6010C	Total Recoverable
Barium	0.044		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	180		0.50	0.10	mg/L	1		6010C	Dissolved
Copper	0.0024	J	0.010	0.0016	mg/L	1		6010C	Dissolved
Magnesium	47.4		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.022		0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0025	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	0.54	B	0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	13.8		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0075	J B	0.010	0.0015	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Method Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-123215-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: NS-LDP-001-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/29/17 03:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/29/17 03:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/29/17 03:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/29/17 03:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/29/17 03:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/29/17 03:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/29/17 03:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/29/17 03:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/29/17 03:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/29/17 03:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/29/17 03:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/29/17 03:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/29/17 03:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/29/17 03:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/29/17 03:15	1
2-Hexanone	ND		5.0	1.2	ug/L			08/29/17 03:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/29/17 03:15	1
Acetone	**9.8**	**J**	10	3.0	ug/L			08/29/17 03:15	1
Benzene	ND		1.0	0.41	ug/L			08/29/17 03:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/29/17 03:15	1
Bromoform	ND		1.0	0.26	ug/L			08/29/17 03:15	1
Bromomethane	ND		1.0	0.69	ug/L			08/29/17 03:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/29/17 03:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/29/17 03:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/29/17 03:15	1
Chloroethane	ND		1.0	0.32	ug/L			08/29/17 03:15	1
Chloroform	ND		1.0	0.34	ug/L			08/29/17 03:15	1
Chloromethane	ND		1.0	0.35	ug/L			08/29/17 03:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/29/17 03:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/29/17 03:15	1
Cyclohexane	ND		1.0	0.18	ug/L			08/29/17 03:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/29/17 03:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/29/17 03:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/29/17 03:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/29/17 03:15	1
Methyl acetate	ND		2.5	1.3	ug/L			08/29/17 03:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/29/17 03:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/29/17 03:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/29/17 03:15	1
Styrene	ND		1.0	0.73	ug/L			08/29/17 03:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/29/17 03:15	1
Toluene	ND		1.0	0.51	ug/L			08/29/17 03:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/29/17 03:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/29/17 03:15	1
Trichloroethene	ND		1.0	0.46	ug/L			08/29/17 03:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/29/17 03:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/29/17 03:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/29/17 03:15	1

Client Sample ID: NS-LDP-001-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*08/29/17 03:15*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*08/29/17 03:15*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/29/17 03:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		08/25/17 14:21	08/28/17 17:30	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		08/25/17 14:21	08/28/17 17:30	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		08/25/17 14:21	08/28/17 17:30	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		08/25/17 14:21	08/28/17 17:30	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 17:30	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		08/25/17 14:21	08/28/17 17:30	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 17:30	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 17:30	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 17:30	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		08/25/17 14:21	08/28/17 17:30	1
2-Chlorophenol	ND		5.0	0.53	ug/L		08/25/17 14:21	08/28/17 17:30	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/25/17 14:21	08/28/17 17:30	1
2-Methylphenol	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 17:30	1
2-Nitroaniline	ND		10	0.42	ug/L		08/25/17 14:21	08/28/17 17:30	1
2-Nitrophenol	ND		5.0	0.48	ug/L		08/25/17 14:21	08/28/17 17:30	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 17:30	1
3-Nitroaniline	ND		10	0.48	ug/L		08/25/17 14:21	08/28/17 17:30	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 17:30	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 17:30	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 17:30	1
4-Chloroaniline	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 17:30	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 17:30	1
4-Methylphenol	ND		10	0.36	ug/L		08/25/17 14:21	08/28/17 17:30	1
4-Nitroaniline	ND		10	0.25	ug/L		08/25/17 14:21	08/28/17 17:30	1
4-Nitrophenol	ND		10	1.5	ug/L		08/25/17 14:21	08/28/17 17:30	1
Acenaphthene	ND		5.0	0.41	ug/L		08/25/17 14:21	08/28/17 17:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/25/17 14:21	08/28/17 17:30	1
Acetophenone	ND		5.0	0.54	ug/L		08/25/17 14:21	08/28/17 17:30	1
Anthracene	ND		5.0	0.28	ug/L		08/25/17 14:21	08/28/17 17:30	1
Atrazine	ND		5.0	0.46	ug/L		08/25/17 14:21	08/28/17 17:30	1
Benzaldehyde	ND		5.0	0.27	ug/L		08/25/17 14:21	08/28/17 17:30	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 17:30	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 17:30	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		08/25/17 14:21	08/28/17 17:30	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 17:30	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		08/25/17 14:21	08/28/17 17:30	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 17:30	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 17:30	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/25/17 14:21	08/28/17 17:30	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		08/25/17 14:21	08/28/17 17:30	1
Caprolactam	ND		5.0	2.2	ug/L		08/25/17 14:21	08/28/17 17:30	1
Carbazole	ND		5.0	0.30	ug/L		08/25/17 14:21	08/28/17 17:30	1
Chrysene	ND		5.0	0.33	ug/L		08/25/17 14:21	08/28/17 17:30	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		08/25/17 14:21	08/28/17 17:30	1

Client Sample ID: NS-LDP-001-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 17:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/25/17 14:21	08/28/17 17:30	1
Dibenzofuran	ND		10	0.51	ug/L		08/25/17 14:21	08/28/17 17:30	1
Diethyl phthalate	ND		5.0	0.22	ug/L		08/25/17 14:21	08/28/17 17:30	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 17:30	1
Fluoranthene	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 17:30	1
Fluorene	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 17:30	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 17:30	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		08/25/17 14:21	08/28/17 17:30	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 17:30	1
Hexachloroethane	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 17:30	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 17:30	1
Isophorone	ND		5.0	0.43	ug/L		08/25/17 14:21	08/28/17 17:30	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		08/25/17 14:21	08/28/17 17:30	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 17:30	1
Naphthalene	ND		5.0	0.76	ug/L		08/25/17 14:21	08/28/17 17:30	1
Nitrobenzene	ND		5.0	0.29	ug/L		08/25/17 14:21	08/28/17 17:30	1
Pentachlorophenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 17:30	1
Phenanthrene	**0.71**	**J**	5.0	0.44	ug/L		08/25/17 14:21	08/28/17 17:30	1
Phenol	ND		5.0	0.39	ug/L		08/25/17 14:21	08/28/17 17:30	1
Pyrene	ND		5.0	0.34	ug/L		08/25/17 14:21	08/28/17 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*		*41 - 120*	*08/25/17 14:21*	*08/28/17 17:30*	*1*
2-Fluorobiphenyl	*74*		*48 - 120*	*08/25/17 14:21*	*08/28/17 17:30*	*1*
2-Fluorophenol	*63*		*35 - 120*	*08/25/17 14:21*	*08/28/17 17:30*	*1*
Nitrobenzene-d5	*80*		*46 - 120*	*08/25/17 14:21*	*08/28/17 17:30*	*1*
p-Terphenyl-d14	*80*		*59 - 136*	*08/25/17 14:21*	*08/28/17 17:30*	*1*
Phenol-d5	*49*		*22 - 120*	*08/25/17 14:21*	*08/28/17 17:30*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.042**	**J**	0.051	0.0094	ug/L		08/25/17 07:30	08/25/17 20:35	1
4,4'-DDE	ND		0.051	0.012	ug/L		08/25/17 07:30	08/25/17 20:35	1
4,4'-DDT	ND		0.051	0.011	ug/L		08/25/17 07:30	08/25/17 20:35	1
Aldrin	**0.019**	**J**	0.051	0.0083	ug/L		08/25/17 07:30	08/25/17 20:35	1
alpha-BHC	**0.054**	**B**	0.051	0.0079	ug/L		08/25/17 07:30	08/25/17 20:35	1
alpha-Chlordane	ND		0.051	0.015	ug/L		08/25/17 07:30	08/25/17 20:35	1
beta-BHC	ND		0.051	0.025	ug/L		08/25/17 07:30	08/25/17 20:35	1
delta-BHC	ND		0.051	0.010	ug/L		08/25/17 07:30	08/25/17 20:35	1
Dieldrin	ND		0.051	0.010	ug/L		08/25/17 07:30	08/25/17 20:35	1
Endosulfan I	ND		0.051	0.011	ug/L		08/25/17 07:30	08/25/17 20:35	1
Endosulfan II	ND		0.051	0.012	ug/L		08/25/17 07:30	08/25/17 20:35	1
Endosulfan sulfate	ND		0.051	0.016	ug/L		08/25/17 07:30	08/25/17 20:35	1
Endrin	ND		0.051	0.014	ug/L		08/25/17 07:30	08/25/17 20:35	1
Endrin aldehyde	ND		0.051	0.017	ug/L		08/25/17 07:30	08/25/17 20:35	1
Endrin ketone	ND		0.051	0.012	ug/L		08/25/17 07:30	08/25/17 20:35	1
gamma-BHC (Lindane)	ND		0.051	0.0082	ug/L		08/25/17 07:30	08/25/17 20:35	1
gamma-Chlordane	ND		0.051	0.011	ug/L		08/25/17 07:30	08/25/17 20:35	1
Heptachlor	ND		0.051	0.0087	ug/L		08/25/17 07:30	08/25/17 20:35	1

Client Sample ID: NS-LDP-001-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-1

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		0.051	0.0076	ug/L		08/25/17 07:30	08/25/17 20:35	1
Methoxychlor	ND		0.051	0.014	ug/L		08/25/17 07:30	08/25/17 20:35	1
Toxaphene	ND		0.51	0.12	ug/L		08/25/17 07:30	08/25/17 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*20 - 120*	*08/25/17 07:30*	*08/25/17 20:35*	*1*
DCB Decachlorobiphenyl	*29*		*20 - 120*	*08/25/17 07:30*	*08/25/17 20:35*	*1*
Tetrachloro-m-xylene	*137*	*X*	*44 - 120*	*08/25/17 07:30*	*08/25/17 20:35*	*1*
Tetrachloro-m-xylene	*82*		*44 - 120*	*08/25/17 07:30*	*08/25/17 20:35*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		08/28/17 14:18	08/29/17 17:26	1
PCB-1221	ND		0.50	0.18	ug/L		08/28/17 14:18	08/29/17 17:26	1
PCB-1232	ND		0.50	0.18	ug/L		08/28/17 14:18	08/29/17 17:26	1
PCB-1242	ND		0.50	0.18	ug/L		08/28/17 14:18	08/29/17 17:26	1
PCB-1248	ND		0.50	0.18	ug/L		08/28/17 14:18	08/29/17 17:26	1
PCB-1254	ND		0.50	0.25	ug/L		08/28/17 14:18	08/29/17 17:26	1
PCB-1260	ND		0.50	0.25	ug/L		08/28/17 14:18	08/29/17 17:26	1
PCB-1262	ND		0.50	0.25	ug/L		08/28/17 14:18	08/29/17 17:26	1
PCB-1268	ND		0.50	0.25	ug/L		08/28/17 14:18	08/29/17 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*39 - 121*	*08/28/17 14:18*	*08/29/17 17:26*	*1*
Tetrachloro-m-xylene	*63*		*39 - 121*	*08/28/17 14:18*	*08/29/17 17:26*	*1*
DCB Decachlorobiphenyl	*53*		*19 - 120*	*08/28/17 14:18*	*08/29/17 17:26*	*1*
DCB Decachlorobiphenyl	*47*		*19 - 120*	*08/28/17 14:18*	*08/29/17 17:26*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2.8**		0.20	0.060	mg/L		08/28/17 07:46	08/28/17 18:05	1
Antimony	ND		0.020	0.0068	mg/L		08/28/17 07:46	08/28/17 18:05	1
Arsenic	ND		0.015	0.0056	mg/L		08/28/17 07:46	08/29/17 15:24	1
Barium	**0.057**		0.0020	0.00070	mg/L		08/28/17 07:46	08/28/17 18:05	1
Beryllium	ND		0.0020	0.00030	mg/L		08/28/17 07:46	08/28/17 18:05	1
Cadmium	ND		0.0020	0.00050	mg/L		08/28/17 07:46	08/28/17 18:05	1
Calcium	**160**		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 18:05	1
Chromium	**0.0040**		0.0040	0.0010	mg/L		08/28/17 07:46	08/28/17 18:05	1
Cobalt	**0.0012**	**J**	0.0040	0.00063	mg/L		08/28/17 07:46	08/28/17 18:05	1
Copper	**0.0034**	**J**	0.010	0.0016	mg/L		08/28/17 07:46	08/28/17 18:05	1
Iron	**2.6**		0.050	0.019	mg/L		08/28/17 07:46	08/28/17 18:05	1
Lead	ND		0.010	0.0030	mg/L		08/28/17 07:46	08/28/17 18:05	1
Magnesium	**41.6**		0.20	0.043	mg/L		08/28/17 07:46	08/28/17 18:05	1
Manganese	**0.066**	**B**	0.0030	0.00040	mg/L		08/28/17 07:46	08/28/17 18:05	1
Nickel	**0.0055**	**J**	0.010	0.0013	mg/L		08/28/17 07:46	08/28/17 18:05	1
Potassium	**1.3**		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 18:05	1
Selenium	ND		0.025	0.0087	mg/L		08/28/17 07:46	08/28/17 18:05	1
Silver	ND		0.0060	0.0017	mg/L		08/28/17 07:46	08/28/17 18:05	1
Sodium	**15.8**		1.0	0.32	mg/L		08/28/17 07:46	08/28/17 18:05	1
Thallium	ND		0.020	0.010	mg/L		08/28/17 07:46	08/28/17 18:05	1

Client Sample ID: NS-LDP-001-GW

Lab Sample ID: 480-123215-1

Date Collected: 08/24/17 00:00

Matrix: Water

Date Received: 08/24/17 17:02

Method: 6010C - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	**0.0066**		0.0050	0.0015	mg/L		08/28/17 07:46	08/28/17 18:05	1
Zinc	**0.011**		0.010	0.0015	mg/L		08/28/17 07:46	08/28/17 18:05	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/28/17 07:46	08/28/17 17:31	1
Antimony	ND		0.020	0.0068	mg/L		08/28/17 07:46	08/28/17 17:31	1
Arsenic	ND		0.015	0.0056	mg/L		08/28/17 07:46	08/28/17 17:31	1
Barium	**0.040**		0.0020	0.00070	mg/L		08/28/17 07:46	08/28/17 17:31	1
Beryllium	ND		0.0020	0.00030	mg/L		08/28/17 07:46	08/28/17 17:31	1
Cadmium	ND		0.0020	0.00050	mg/L		08/28/17 07:46	08/28/17 17:31	1
Calcium	**157**		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 17:31	1
Chromium	ND		0.0040	0.0010	mg/L		08/28/17 07:46	08/28/17 17:31	1
Cobalt	**0.00066**	**J**	0.0040	0.00063	mg/L		08/28/17 07:46	08/28/17 17:31	1
Copper	ND		0.010	0.0016	mg/L		08/28/17 07:46	08/28/17 17:31	1
Iron	ND		0.050	0.019	mg/L		08/28/17 07:46	08/28/17 17:31	1
Lead	ND		0.010	0.0030	mg/L		08/28/17 07:46	08/28/17 17:31	1
Magnesium	**41.3**		0.20	0.043	mg/L		08/28/17 07:46	08/28/17 17:31	1
Manganese	**0.031**		0.0030	0.00040	mg/L		08/28/17 07:46	08/28/17 17:31	1
Nickel	**0.0039**	**J**	0.010	0.0013	mg/L		08/28/17 07:46	08/28/17 17:31	1
Potassium	**0.40**	**J B**	0.50	0.10	mg/L		08/28/17 07:46	08/28/17 17:31	1
Selenium	ND		0.025	0.0087	mg/L		08/28/17 07:46	08/28/17 17:31	1
Silver	ND		0.0060	0.0017	mg/L		08/28/17 07:46	08/28/17 17:31	1
Sodium	**16.7**		1.0	0.32	mg/L		08/28/17 07:46	08/28/17 17:31	1
Thallium	ND		0.020	0.010	mg/L		08/28/17 07:46	08/28/17 17:31	1
Vanadium	ND		0.0050	0.0015	mg/L		08/28/17 07:46	08/28/17 17:31	1
Zinc	**0.011**	**B**	0.010	0.0015	mg/L		08/28/17 07:46	08/28/17 17:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:15	08/25/17 14:54	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/28/17 10:45	08/28/17 15:57	1

Client Sample ID: NS-LDP-002-GW

Lab Sample ID: 480-123215-2

Date Collected: 08/24/17 00:00

Matrix: Water

Date Received: 08/24/17 17:02

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/29/17 03:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/29/17 03:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/29/17 03:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/29/17 03:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/29/17 03:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/29/17 03:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/29/17 03:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/29/17 03:38	1

Client Sample ID: NS-LDP-002-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/29/17 03:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/29/17 03:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/29/17 03:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/29/17 03:38	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/29/17 03:38	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/29/17 03:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/29/17 03:38	1
2-Hexanone	**1.5**	**J**	5.0	1.2	ug/L			08/29/17 03:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/29/17 03:38	1
Acetone	**17**		10	3.0	ug/L			08/29/17 03:38	1
Benzene	ND		1.0	0.41	ug/L			08/29/17 03:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/29/17 03:38	1
Bromoform	ND		1.0	0.26	ug/L			08/29/17 03:38	1
Bromomethane	ND		1.0	0.69	ug/L			08/29/17 03:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/29/17 03:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/29/17 03:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/29/17 03:38	1
Chloroethane	ND		1.0	0.32	ug/L			08/29/17 03:38	1
Chloroform	ND		1.0	0.34	ug/L			08/29/17 03:38	1
Chloromethane	ND		1.0	0.35	ug/L			08/29/17 03:38	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/29/17 03:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/29/17 03:38	1
Cyclohexane	ND		1.0	0.18	ug/L			08/29/17 03:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/29/17 03:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/29/17 03:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/29/17 03:38	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/29/17 03:38	1
Methyl acetate	ND		2.5	1.3	ug/L			08/29/17 03:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/29/17 03:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/29/17 03:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/29/17 03:38	1
Styrene	ND		1.0	0.73	ug/L			08/29/17 03:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/29/17 03:38	1
Toluene	ND		1.0	0.51	ug/L			08/29/17 03:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/29/17 03:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/29/17 03:38	1
Trichloroethene	ND		1.0	0.46	ug/L			08/29/17 03:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/29/17 03:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/29/17 03:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/29/17 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*08/29/17 03:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*08/29/17 03:38*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/29/17 03:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		08/25/17 14:21	08/28/17 17:59	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		08/25/17 14:21	08/28/17 17:59	1

Client Sample ID: NS-LDP-002-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		08/25/17 14:21	08/28/17 17:59	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		08/25/17 14:21	08/28/17 17:59	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 17:59	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		08/25/17 14:21	08/28/17 17:59	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 17:59	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 17:59	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 17:59	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		08/25/17 14:21	08/28/17 17:59	1
2-Chlorophenol	ND		5.0	0.53	ug/L		08/25/17 14:21	08/28/17 17:59	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/25/17 14:21	08/28/17 17:59	1
2-Methylphenol	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 17:59	1
2-Nitroaniline	ND		10	0.42	ug/L		08/25/17 14:21	08/28/17 17:59	1
2-Nitrophenol	ND		5.0	0.48	ug/L		08/25/17 14:21	08/28/17 17:59	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 17:59	1
3-Nitroaniline	ND		10	0.48	ug/L		08/25/17 14:21	08/28/17 17:59	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 17:59	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 17:59	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 17:59	1
4-Chloroaniline	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 17:59	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 17:59	1
4-Methylphenol	ND		10	0.36	ug/L		08/25/17 14:21	08/28/17 17:59	1
4-Nitroaniline	ND		10	0.25	ug/L		08/25/17 14:21	08/28/17 17:59	1
4-Nitrophenol	ND		10	1.5	ug/L		08/25/17 14:21	08/28/17 17:59	1
Acenaphthene	ND		5.0	0.41	ug/L		08/25/17 14:21	08/28/17 17:59	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/25/17 14:21	08/28/17 17:59	1
Acetophenone	ND		5.0	0.54	ug/L		08/25/17 14:21	08/28/17 17:59	1
Anthracene	ND		5.0	0.28	ug/L		08/25/17 14:21	08/28/17 17:59	1
Atrazine	ND		5.0	0.46	ug/L		08/25/17 14:21	08/28/17 17:59	1
Benzaldehyde	ND		5.0	0.27	ug/L		08/25/17 14:21	08/28/17 17:59	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 17:59	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 17:59	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		08/25/17 14:21	08/28/17 17:59	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 17:59	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		08/25/17 14:21	08/28/17 17:59	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 17:59	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 17:59	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/25/17 14:21	08/28/17 17:59	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		08/25/17 14:21	08/28/17 17:59	1
Caprolactam	ND		5.0	2.2	ug/L		08/25/17 14:21	08/28/17 17:59	1
Carbazole	ND		5.0	0.30	ug/L		08/25/17 14:21	08/28/17 17:59	1
Chrysene	ND		5.0	0.33	ug/L		08/25/17 14:21	08/28/17 17:59	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		08/25/17 14:21	08/28/17 17:59	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 17:59	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/25/17 14:21	08/28/17 17:59	1
Dibenzofuran	ND		10	0.51	ug/L		08/25/17 14:21	08/28/17 17:59	1
Diethyl phthalate	ND		5.0	0.22	ug/L		08/25/17 14:21	08/28/17 17:59	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 17:59	1
Fluoranthene	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 17:59	1
Fluorene	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 17:59	1

Client Sample ID: NS-LDP-002-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 17:59	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		08/25/17 14:21	08/28/17 17:59	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 17:59	1
Hexachloroethane	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 17:59	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 17:59	1
Isophorone	ND		5.0	0.43	ug/L		08/25/17 14:21	08/28/17 17:59	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		08/25/17 14:21	08/28/17 17:59	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 17:59	1
Naphthalene	ND		5.0	0.76	ug/L		08/25/17 14:21	08/28/17 17:59	1
Nitrobenzene	ND		5.0	0.29	ug/L		08/25/17 14:21	08/28/17 17:59	1
Pentachlorophenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 17:59	1
Phenanthrene	**0.47**	**J**	5.0	0.44	ug/L		08/25/17 14:21	08/28/17 17:59	1
Phenol	ND		5.0	0.39	ug/L		08/25/17 14:21	08/28/17 17:59	1
Pyrene	ND		5.0	0.34	ug/L		08/25/17 14:21	08/28/17 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*41 - 120*	*08/25/17 14:21*	*08/28/17 17:59*	*1*
2-Fluorobiphenyl	*71*		*48 - 120*	*08/25/17 14:21*	*08/28/17 17:59*	*1*
2-Fluorophenol	*65*		*35 - 120*	*08/25/17 14:21*	*08/28/17 17:59*	*1*
Nitrobenzene-d5	*77*		*46 - 120*	*08/25/17 14:21*	*08/28/17 17:59*	*1*
p-Terphenyl-d14	*75*		*59 - 136*	*08/25/17 14:21*	*08/28/17 17:59*	*1*
Phenol-d5	*51*		*22 - 120*	*08/25/17 14:21*	*08/28/17 17:59*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.25	0.046	ug/L		08/25/17 07:30	08/25/17 20:54	5
4,4'-DDE	ND		0.25	0.058	ug/L		08/25/17 07:30	08/25/17 20:54	5
4,4'-DDT	**0.086**	**J**	0.25	0.055	ug/L		08/25/17 07:30	08/25/17 20:54	5
Aldrin	**0.073**	**J**	0.25	0.041	ug/L		08/25/17 07:30	08/25/17 20:54	5
alpha-BHC	ND		0.25	0.039	ug/L		08/25/17 07:30	08/25/17 20:54	5
alpha-Chlordane	ND		0.25	0.074	ug/L		08/25/17 07:30	08/25/17 20:54	5
beta-BHC	ND		0.25	0.12	ug/L		08/25/17 07:30	08/25/17 20:54	5
delta-BHC	ND		0.25	0.050	ug/L		08/25/17 07:30	08/25/17 20:54	5
Dieldrin	ND		0.25	0.049	ug/L		08/25/17 07:30	08/25/17 20:54	5
Endosulfan I	ND		0.25	0.055	ug/L		08/25/17 07:30	08/25/17 20:54	5
Endosulfan II	ND		0.25	0.060	ug/L		08/25/17 07:30	08/25/17 20:54	5
Endosulfan sulfate	ND		0.25	0.079	ug/L		08/25/17 07:30	08/25/17 20:54	5
Endrin	ND		0.25	0.069	ug/L		08/25/17 07:30	08/25/17 20:54	5
Endrin aldehyde	ND		0.25	0.082	ug/L		08/25/17 07:30	08/25/17 20:54	5
Endrin ketone	ND		0.25	0.060	ug/L		08/25/17 07:30	08/25/17 20:54	5
gamma-BHC (Lindane)	**0.072**	**J**	0.25	0.040	ug/L		08/25/17 07:30	08/25/17 20:54	5
gamma-Chlordane	ND		0.25	0.055	ug/L		08/25/17 07:30	08/25/17 20:54	5
Heptachlor	ND		0.25	0.043	ug/L		08/25/17 07:30	08/25/17 20:54	5
Heptachlor epoxide	ND		0.25	0.037	ug/L		08/25/17 07:30	08/25/17 20:54	5
Methoxychlor	ND		0.25	0.071	ug/L		08/25/17 07:30	08/25/17 20:54	5
Toxaphene	ND		2.5	0.60	ug/L		08/25/17 07:30	08/25/17 20:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*20 - 120*	*08/25/17 07:30*	*08/25/17 20:54*	*5*
DCB Decachlorobiphenyl	*45*		*20 - 120*	*08/25/17 07:30*	*08/25/17 20:54*	*5*

Client Sample ID: NS-LDP-002-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-2

Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*44 - 120*	*08/25/17 07:30*	*08/25/17 20:54*	*5*
Tetrachloro-m-xylene	*0*	*X*	*44 - 120*	*08/25/17 07:30*	*08/25/17 20:54*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		08/28/17 14:18	08/29/17 17:42	1
PCB-1221	ND		0.52	0.18	ug/L		08/28/17 14:18	08/29/17 17:42	1
PCB-1232	ND		0.52	0.18	ug/L		08/28/17 14:18	08/29/17 17:42	1
PCB-1242	ND		0.52	0.18	ug/L		08/28/17 14:18	08/29/17 17:42	1
PCB-1248	ND		0.52	0.18	ug/L		08/28/17 14:18	08/29/17 17:42	1
PCB-1254	ND		0.52	0.26	ug/L		08/28/17 14:18	08/29/17 17:42	1
PCB-1260	ND		0.52	0.26	ug/L		08/28/17 14:18	08/29/17 17:42	1
PCB-1262	ND		0.52	0.26	ug/L		08/28/17 14:18	08/29/17 17:42	1
PCB-1268	ND		0.52	0.26	ug/L		08/28/17 14:18	08/29/17 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*39 - 121*	*08/28/17 14:18*	*08/29/17 17:42*	*1*
Tetrachloro-m-xylene	*59*		*39 - 121*	*08/28/17 14:18*	*08/29/17 17:42*	*1*
DCB Decachlorobiphenyl	*53*		*19 - 120*	*08/28/17 14:18*	*08/29/17 17:42*	*1*
DCB Decachlorobiphenyl	*47*		*19 - 120*	*08/28/17 14:18*	*08/29/17 17:42*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.1**		0.20	0.060	mg/L		08/28/17 07:46	08/28/17 18:09	1
Antimony	ND		0.020	0.0068	mg/L		08/28/17 07:46	08/28/17 18:09	1
Arsenic	ND		0.015	0.0056	mg/L		08/28/17 07:46	08/29/17 15:28	1
Barium	**0.076**		0.0020	0.00070	mg/L		08/28/17 07:46	08/28/17 18:09	1
Beryllium	ND		0.0020	0.00030	mg/L		08/28/17 07:46	08/28/17 18:09	1
Cadmium	ND		0.0020	0.00050	mg/L		08/28/17 07:46	08/28/17 18:09	1
Calcium	**148**		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 18:09	1
Chromium	**0.0017**	**J**	0.0040	0.0010	mg/L		08/28/17 07:46	08/28/17 18:09	1
Cobalt	ND		0.0040	0.00063	mg/L		08/28/17 07:46	08/28/17 18:09	1
Copper	**0.0030**	**J**	0.010	0.0016	mg/L		08/28/17 07:46	08/28/17 18:09	1
Iron	**1.3**		0.050	0.019	mg/L		08/28/17 07:46	08/28/17 18:09	1
Lead	ND		0.010	0.0030	mg/L		08/28/17 07:46	08/28/17 18:09	1
Magnesium	**37.3**		0.20	0.043	mg/L		08/28/17 07:46	08/28/17 18:09	1
Manganese	**0.044**	**B**	0.0030	0.00040	mg/L		08/28/17 07:46	08/28/17 18:09	1
Nickel	**0.0024**	**J**	0.010	0.0013	mg/L		08/28/17 07:46	08/28/17 18:09	1
Potassium	**1.9**		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 18:09	1
Selenium	ND		0.025	0.0087	mg/L		08/28/17 07:46	08/28/17 18:09	1
Silver	ND		0.0060	0.0017	mg/L		08/28/17 07:46	08/28/17 18:09	1
Sodium	**23.4**		1.0	0.32	mg/L		08/28/17 07:46	08/28/17 18:09	1
Thallium	ND		0.020	0.010	mg/L		08/28/17 07:46	08/28/17 18:09	1
Vanadium	**0.0029**	**J**	0.0050	0.0015	mg/L		08/28/17 07:46	08/28/17 18:09	1
Zinc	**0.0078**	**J**	0.010	0.0015	mg/L		08/28/17 07:46	08/28/17 18:09	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/28/17 07:46	08/28/17 17:35	1
Antimony	ND		0.020	0.0068	mg/L		08/28/17 07:46	08/28/17 17:35	1

Client Sample ID: NS-LDP-002-GW

Lab Sample ID: 480-123215-2

Date Collected: 08/24/17 00:00

Matrix: Water

Date Received: 08/24/17 17:02

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/28/17 07:46	08/28/17 17:35	1
Barium	**0.066**		0.0020	0.00070	mg/L		08/28/17 07:46	08/28/17 17:35	1
Beryllium	ND		0.0020	0.00030	mg/L		08/28/17 07:46	08/28/17 17:35	1
Cadmium	ND		0.0020	0.00050	mg/L		08/28/17 07:46	08/28/17 17:35	1
Calcium	**139**		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 17:35	1
Chromium	ND		0.0040	0.0010	mg/L		08/28/17 07:46	08/28/17 17:35	1
Cobalt	ND		0.0040	0.00063	mg/L		08/28/17 07:46	08/28/17 17:35	1
Copper	**0.0022**	**J**	0.010	0.0016	mg/L		08/28/17 07:46	08/28/17 17:35	1
Iron	ND		0.050	0.019	mg/L		08/28/17 07:46	08/28/17 17:35	1
Lead	ND		0.010	0.0030	mg/L		08/28/17 07:46	08/28/17 17:35	1
Magnesium	**34.7**		0.20	0.043	mg/L		08/28/17 07:46	08/28/17 17:35	1
Manganese	**0.011**		0.0030	0.00040	mg/L		08/28/17 07:46	08/28/17 17:35	1
Nickel	**0.0035**	**J**	0.010	0.0013	mg/L		08/28/17 07:46	08/28/17 17:35	1
Potassium	**1.5**	**B**	0.50	0.10	mg/L		08/28/17 07:46	08/28/17 17:35	1
Selenium	ND		0.025	0.0087	mg/L		08/28/17 07:46	08/28/17 17:35	1
Silver	ND		0.0060	0.0017	mg/L		08/28/17 07:46	08/28/17 17:35	1
Sodium	**23.5**		1.0	0.32	mg/L		08/28/17 07:46	08/28/17 17:35	1
Thallium	ND		0.020	0.010	mg/L		08/28/17 07:46	08/28/17 17:35	1
Vanadium	ND		0.0050	0.0015	mg/L		08/28/17 07:46	08/28/17 17:35	1
Zinc	**0.013**	**B**	0.010	0.0015	mg/L		08/28/17 07:46	08/28/17 17:35	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:15	08/25/17 14:56	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/28/17 10:45	08/28/17 15:59	1

Client Sample ID: NS-LDP-003-GW

Lab Sample ID: 480-123215-3

Date Collected: 08/24/17 00:00

Matrix: Water

Date Received: 08/24/17 17:02

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/29/17 04:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/29/17 04:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/29/17 04:01	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/29/17 04:01	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/29/17 04:01	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/29/17 04:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/29/17 04:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/29/17 04:01	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/29/17 04:01	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/29/17 04:01	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/29/17 04:01	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/29/17 04:01	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/29/17 04:01	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/29/17 04:01	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/29/17 04:01	1

Client Sample ID: NS-LDP-003-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	1.2	ug/L			08/29/17 04:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/29/17 04:01	1
Acetone	**22**		10	3.0	ug/L			08/29/17 04:01	1
Benzene	ND		1.0	0.41	ug/L			08/29/17 04:01	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/29/17 04:01	1
Bromoform	ND		1.0	0.26	ug/L			08/29/17 04:01	1
Bromomethane	ND		1.0	0.69	ug/L			08/29/17 04:01	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/29/17 04:01	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/29/17 04:01	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/29/17 04:01	1
Chloroethane	ND		1.0	0.32	ug/L			08/29/17 04:01	1
Chloroform	ND		1.0	0.34	ug/L			08/29/17 04:01	1
Chloromethane	ND		1.0	0.35	ug/L			08/29/17 04:01	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/29/17 04:01	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/29/17 04:01	1
Cyclohexane	ND		1.0	0.18	ug/L			08/29/17 04:01	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/29/17 04:01	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/29/17 04:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/29/17 04:01	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/29/17 04:01	1
Methyl acetate	ND		2.5	1.3	ug/L			08/29/17 04:01	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/29/17 04:01	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/29/17 04:01	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/29/17 04:01	1
Styrene	ND		1.0	0.73	ug/L			08/29/17 04:01	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/29/17 04:01	1
Toluene	ND		1.0	0.51	ug/L			08/29/17 04:01	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/29/17 04:01	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/29/17 04:01	1
Trichloroethene	ND		1.0	0.46	ug/L			08/29/17 04:01	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/29/17 04:01	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/29/17 04:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/29/17 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*08/29/17 04:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*08/29/17 04:01*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/29/17 04:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		08/25/17 14:21	08/28/17 18:28	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		08/25/17 14:21	08/28/17 18:28	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		08/25/17 14:21	08/28/17 18:28	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		08/25/17 14:21	08/28/17 18:28	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 18:28	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		08/25/17 14:21	08/28/17 18:28	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 18:28	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 18:28	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 18:28	1

Client Sample ID: NS-LDP-003-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		5.0	0.46	ug/L		08/25/17 14:21	08/28/17 18:28	1
2-Chlorophenol	ND		5.0	0.53	ug/L		08/25/17 14:21	08/28/17 18:28	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/25/17 14:21	08/28/17 18:28	1
2-Methylphenol	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 18:28	1
2-Nitroaniline	ND		10	0.42	ug/L		08/25/17 14:21	08/28/17 18:28	1
2-Nitrophenol	ND		5.0	0.48	ug/L		08/25/17 14:21	08/28/17 18:28	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 18:28	1
3-Nitroaniline	ND		10	0.48	ug/L		08/25/17 14:21	08/28/17 18:28	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 18:28	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 18:28	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 18:28	1
4-Chloroaniline	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 18:28	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 18:28	1
4-Methylphenol	ND		10	0.36	ug/L		08/25/17 14:21	08/28/17 18:28	1
4-Nitroaniline	ND		10	0.25	ug/L		08/25/17 14:21	08/28/17 18:28	1
4-Nitrophenol	ND		10	1.5	ug/L		08/25/17 14:21	08/28/17 18:28	1
Acenaphthene	ND		5.0	0.41	ug/L		08/25/17 14:21	08/28/17 18:28	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/25/17 14:21	08/28/17 18:28	1
Acetophenone	**0.61**	**J**	5.0	0.54	ug/L		08/25/17 14:21	08/28/17 18:28	1
Anthracene	ND		5.0	0.28	ug/L		08/25/17 14:21	08/28/17 18:28	1
Atrazine	ND		5.0	0.46	ug/L		08/25/17 14:21	08/28/17 18:28	1
Benzaldehyde	ND		5.0	0.27	ug/L		08/25/17 14:21	08/28/17 18:28	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 18:28	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 18:28	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		08/25/17 14:21	08/28/17 18:28	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 18:28	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		08/25/17 14:21	08/28/17 18:28	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 18:28	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 18:28	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/25/17 14:21	08/28/17 18:28	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		08/25/17 14:21	08/28/17 18:28	1
Caprolactam	ND		5.0	2.2	ug/L		08/25/17 14:21	08/28/17 18:28	1
Carbazole	ND		5.0	0.30	ug/L		08/25/17 14:21	08/28/17 18:28	1
Chrysene	ND		5.0	0.33	ug/L		08/25/17 14:21	08/28/17 18:28	1
Di-n-butyl phthalate	**0.34**	**J**	5.0	0.31	ug/L		08/25/17 14:21	08/28/17 18:28	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 18:28	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/25/17 14:21	08/28/17 18:28	1
Dibenzofuran	ND		10	0.51	ug/L		08/25/17 14:21	08/28/17 18:28	1
Diethyl phthalate	ND		5.0	0.22	ug/L		08/25/17 14:21	08/28/17 18:28	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 18:28	1
Fluoranthene	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 18:28	1
Fluorene	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 18:28	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 18:28	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		08/25/17 14:21	08/28/17 18:28	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 18:28	1
Hexachloroethane	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 18:28	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 18:28	1
Isophorone	ND		5.0	0.43	ug/L		08/25/17 14:21	08/28/17 18:28	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		08/25/17 14:21	08/28/17 18:28	1

Client Sample ID: NS-LDP-003-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 18:28	1
Naphthalene	ND		5.0	0.76	ug/L		08/25/17 14:21	08/28/17 18:28	1
Nitrobenzene	ND		5.0	0.29	ug/L		08/25/17 14:21	08/28/17 18:28	1
Pentachlorophenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 18:28	1
Phenanthrene	**0.49**	**J**	5.0	0.44	ug/L		08/25/17 14:21	08/28/17 18:28	1
Phenol	ND		5.0	0.39	ug/L		08/25/17 14:21	08/28/17 18:28	1
Pyrene	ND		5.0	0.34	ug/L		08/25/17 14:21	08/28/17 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*92*		*41 - 120*	*08/25/17 14:21*	*08/28/17 18:28*	*1*
2-Fluorobiphenyl	*76*		*48 - 120*	*08/25/17 14:21*	*08/28/17 18:28*	*1*
2-Fluorophenol	*64*		*35 - 120*	*08/25/17 14:21*	*08/28/17 18:28*	*1*
Nitrobenzene-d5	*81*		*46 - 120*	*08/25/17 14:21*	*08/28/17 18:28*	*1*
p-Terphenyl-d14	*74*		*59 - 136*	*08/25/17 14:21*	*08/28/17 18:28*	*1*
Phenol-d5	*51*		*22 - 120*	*08/25/17 14:21*	*08/28/17 18:28*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**0.044**	**J**	0.052	0.0096	ug/L		08/25/17 07:30	08/25/17 21:14	1
4,4'-DDE	ND		0.052	0.012	ug/L		08/25/17 07:30	08/25/17 21:14	1
4,4'-DDT	**0.043**	**J**	0.052	0.011	ug/L		08/25/17 07:30	08/25/17 21:14	1
Aldrin	**0.021**	**J**	0.052	0.0084	ug/L		08/25/17 07:30	08/25/17 21:14	1
alpha-BHC	ND		0.052	0.0080	ug/L		08/25/17 07:30	08/25/17 21:14	1
alpha-Chlordane	ND		0.052	0.015	ug/L		08/25/17 07:30	08/25/17 21:14	1
beta-BHC	ND		0.052	0.026	ug/L		08/25/17 07:30	08/25/17 21:14	1
delta-BHC	ND		0.052	0.010	ug/L		08/25/17 07:30	08/25/17 21:14	1
Dieldrin	ND		0.052	0.010	ug/L		08/25/17 07:30	08/25/17 21:14	1
Endosulfan I	**0.029**	**J**	0.052	0.011	ug/L		08/25/17 07:30	08/25/17 21:14	1
Endosulfan II	ND		0.052	0.013	ug/L		08/25/17 07:30	08/25/17 21:14	1
Endosulfan sulfate	ND		0.052	0.016	ug/L		08/25/17 07:30	08/25/17 21:14	1
Endrin	ND		0.052	0.014	ug/L		08/25/17 07:30	08/25/17 21:14	1
Endrin aldehyde	ND		0.052	0.017	ug/L		08/25/17 07:30	08/25/17 21:14	1
Endrin ketone	ND		0.052	0.013	ug/L		08/25/17 07:30	08/25/17 21:14	1
gamma-BHC (Lindane)	ND		0.052	0.0083	ug/L		08/25/17 07:30	08/25/17 21:14	1
gamma-Chlordane	ND		0.052	0.011	ug/L		08/25/17 07:30	08/25/17 21:14	1
Heptachlor	ND		0.052	0.0089	ug/L		08/25/17 07:30	08/25/17 21:14	1
Heptachlor epoxide	ND		0.052	0.0077	ug/L		08/25/17 07:30	08/25/17 21:14	1
Methoxychlor	ND		0.052	0.015	ug/L		08/25/17 07:30	08/25/17 21:14	1
Toxaphene	ND		0.52	0.13	ug/L		08/25/17 07:30	08/25/17 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*20 - 120*	*08/25/17 07:30*	*08/25/17 21:14*	*1*
DCB Decachlorobiphenyl	*31*		*20 - 120*	*08/25/17 07:30*	*08/25/17 21:14*	*1*
Tetrachloro-m-xylene	*185*	*X*	*44 - 120*	*08/25/17 07:30*	*08/25/17 21:14*	*1*
Tetrachloro-m-xylene	*98*		*44 - 120*	*08/25/17 07:30*	*08/25/17 21:14*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.52	0.18	ug/L		08/28/17 14:18	08/29/17 17:58	1
PCB-1221	ND		0.52	0.18	ug/L		08/28/17 14:18	08/29/17 17:58	1

Client Sample ID: NS-LDP-003-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-3

Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	ND		0.52	0.18	ug/L		08/28/17 14:18	08/29/17 17:58	1
PCB-1242	ND		0.52	0.18	ug/L		08/28/17 14:18	08/29/17 17:58	1
PCB-1248	ND		0.52	0.18	ug/L		08/28/17 14:18	08/29/17 17:58	1
PCB-1254	ND		0.52	0.26	ug/L		08/28/17 14:18	08/29/17 17:58	1
PCB-1260	ND		0.52	0.26	ug/L		08/28/17 14:18	08/29/17 17:58	1
PCB-1262	ND		0.52	0.26	ug/L		08/28/17 14:18	08/29/17 17:58	1
PCB-1268	ND		0.52	0.26	ug/L		08/28/17 14:18	08/29/17 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*39 - 121*	*08/28/17 14:18*	*08/29/17 17:58*	*1*
Tetrachloro-m-xylene	*48*		*39 - 121*	*08/28/17 14:18*	*08/29/17 17:58*	*1*
DCB Decachlorobiphenyl	*38*		*19 - 120*	*08/28/17 14:18*	*08/29/17 17:58*	*1*
DCB Decachlorobiphenyl	*34*		*19 - 120*	*08/28/17 14:18*	*08/29/17 17:58*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.5**		0.20	0.060	mg/L		08/28/17 07:46	08/28/17 18:12	1
Antimony	ND		0.020	0.0068	mg/L		08/28/17 07:46	08/28/17 18:12	1
Arsenic	ND		0.015	0.0056	mg/L		08/28/17 07:46	08/29/17 15:31	1
Barium	**0.052**		0.0020	0.00070	mg/L		08/28/17 07:46	08/28/17 18:12	1
Beryllium	ND		0.0020	0.00030	mg/L		08/28/17 07:46	08/28/17 18:12	1
Cadmium	ND		0.0020	0.00050	mg/L		08/28/17 07:46	08/28/17 18:12	1
Calcium	**187**		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 18:12	1
Chromium	**0.0021**	**J**	0.0040	0.0010	mg/L		08/28/17 07:46	08/28/17 18:12	1
Cobalt	ND		0.0040	0.00063	mg/L		08/28/17 07:46	08/28/17 18:12	1
Copper	**0.0027**	**J**	0.010	0.0016	mg/L		08/28/17 07:46	08/28/17 18:12	1
Iron	**1.5**		0.050	0.019	mg/L		08/28/17 07:46	08/28/17 18:12	1
Lead	**0.0031**	**J**	0.010	0.0030	mg/L		08/28/17 07:46	08/28/17 18:12	1
Magnesium	**48.8**		0.20	0.043	mg/L		08/28/17 07:46	08/28/17 18:12	1
Manganese	**0.049**	**B**	0.0030	0.00040	mg/L		08/28/17 07:46	08/28/17 18:12	1
Nickel	**0.0024**	**J**	0.010	0.0013	mg/L		08/28/17 07:46	08/28/17 18:12	1
Potassium	**0.99**		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 18:12	1
Selenium	ND		0.025	0.0087	mg/L		08/28/17 07:46	08/28/17 18:12	1
Silver	ND		0.0060	0.0017	mg/L		08/28/17 07:46	08/28/17 18:12	1
Sodium	**13.8**		1.0	0.32	mg/L		08/28/17 07:46	08/28/17 18:12	1
Thallium	ND		0.020	0.010	mg/L		08/28/17 07:46	08/28/17 18:12	1
Vanadium	**0.0035**	**J**	0.0050	0.0015	mg/L		08/28/17 07:46	08/28/17 18:12	1
Zinc	**0.0073**	**J**	0.010	0.0015	mg/L		08/28/17 07:46	08/28/17 18:12	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/28/17 07:46	08/28/17 17:38	1
Antimony	ND		0.020	0.0068	mg/L		08/28/17 07:46	08/28/17 17:38	1
Arsenic	ND		0.015	0.0056	mg/L		08/28/17 07:46	08/28/17 17:38	1
Barium	**0.044**		0.0020	0.00070	mg/L		08/28/17 07:46	08/28/17 17:38	1
Beryllium	ND		0.0020	0.00030	mg/L		08/28/17 07:46	08/28/17 17:38	1
Cadmium	ND		0.0020	0.00050	mg/L		08/28/17 07:46	08/28/17 17:38	1
Calcium	**180**		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 17:38	1
Chromium	ND		0.0040	0.0010	mg/L		08/28/17 07:46	08/28/17 17:38	1
Cobalt	ND		0.0040	0.00063	mg/L		08/28/17 07:46	08/28/17 17:38	1

Client Sample ID: NS-LDP-003-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-3

Matrix: Water

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**0.0024**	**J**	0.010	0.0016	mg/L		08/28/17 07:46	08/28/17 17:38	1
Iron	ND		0.050	0.019	mg/L		08/28/17 07:46	08/28/17 17:38	1
Lead	ND		0.010	0.0030	mg/L		08/28/17 07:46	08/28/17 17:38	1
Magnesium	**47.4**		0.20	0.043	mg/L		08/28/17 07:46	08/28/17 17:38	1
Manganese	**0.022**		0.0030	0.00040	mg/L		08/28/17 07:46	08/28/17 17:38	1
Nickel	**0.0025**	**J**	0.010	0.0013	mg/L		08/28/17 07:46	08/28/17 17:38	1
Potassium	**0.54**	**B**	0.50	0.10	mg/L		08/28/17 07:46	08/28/17 17:38	1
Selenium	ND		0.025	0.0087	mg/L		08/28/17 07:46	08/28/17 17:38	1
Silver	ND		0.0060	0.0017	mg/L		08/28/17 07:46	08/28/17 17:38	1
Sodium	**13.8**		1.0	0.32	mg/L		08/28/17 07:46	08/28/17 17:38	1
Thallium	ND		0.020	0.010	mg/L		08/28/17 07:46	08/28/17 17:38	1
Vanadium	ND		0.0050	0.0015	mg/L		08/28/17 07:46	08/28/17 17:38	1
Zinc	**0.0075**	**J B**	0.010	0.0015	mg/L		08/28/17 07:46	08/28/17 17:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:15	08/25/17 14:58	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/28/17 10:45	08/28/17 16:09	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-123215-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)
480-123215-1	NS-LDP-001-GW	101	95	98
480-123215-2	NS-LDP-002-GW	101	98	98
480-123215-3	NS-LDP-003-GW	100	97	99
LCS 480-374316/4	Lab Control Sample	98	99	100
MB 480-374316/6	Method Blank	101	95	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(59-136)	(22-120)
480-123215-1	NS-LDP-001-GW	89	74	63	80	80	49
480-123215-2	NS-LDP-002-GW	84	71	65	77	75	51
480-123215-3	NS-LDP-003-GW	92	76	64	81	74	51
LCS 480-374019/2-A	Lab Control Sample	87	77	65	80	83	53
MB 480-374019/1-A	Method Blank	62	67	58	72	78	45

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCB1	DCB2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-123215-1	NS-LDP-001-GW	40	29	137 X	82
480-123215-2	NS-LDP-002-GW	62	45	0 X	0 X
480-123215-3	NS-LDP-003-GW	61	31	185 X	98
LCS 480-373892/2-A	Lab Control Sample	52	45	92	74
LCSD 480-373892/3-A	Lab Control Sample Dup	47	37	96	72
MB 480-373892/1-A	Method Blank	58	63	102	85

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-123215-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCB1	DCB2
Lab Sample ID	Client Sample ID	(39-121)	(39-121)	(19-120)	(19-120)
480-123215-1	NS-LDP-001-GW	75	63	53	47
480-123215-2	NS-LDP-002-GW	73	59	53	47
480-123215-3	NS-LDP-003-GW	63	48	38	34
LCS 480-374278/2-A	Lab Control Sample	67	48	35	31
LCSD 480-374278/3-A	Lab Control Sample Dup	64	47	36	33
MB 480-374278/1-A	Method Blank	61	47	40	34

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-374316/6
Matrix: Water
Analysis Batch: 374316

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/28/17 22:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/28/17 22:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/28/17 22:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/28/17 22:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/28/17 22:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/28/17 22:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/28/17 22:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/28/17 22:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/28/17 22:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/28/17 22:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/28/17 22:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/28/17 22:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/28/17 22:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/28/17 22:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/28/17 22:15	1
2-Hexanone	ND		5.0	1.2	ug/L			08/28/17 22:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/28/17 22:15	1
Acetone	ND		10	3.0	ug/L			08/28/17 22:15	1
Benzene	ND		1.0	0.41	ug/L			08/28/17 22:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/28/17 22:15	1
Bromoform	ND		1.0	0.26	ug/L			08/28/17 22:15	1
Bromomethane	ND		1.0	0.69	ug/L			08/28/17 22:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/28/17 22:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/28/17 22:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/28/17 22:15	1
Chloroethane	ND		1.0	0.32	ug/L			08/28/17 22:15	1
Chloroform	ND		1.0	0.34	ug/L			08/28/17 22:15	1
Chloromethane	ND		1.0	0.35	ug/L			08/28/17 22:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/28/17 22:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/28/17 22:15	1
Cyclohexane	ND		1.0	0.18	ug/L			08/28/17 22:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/28/17 22:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/28/17 22:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/28/17 22:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/28/17 22:15	1
Methyl acetate	ND		2.5	1.3	ug/L			08/28/17 22:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/28/17 22:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/28/17 22:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/28/17 22:15	1
Styrene	ND		1.0	0.73	ug/L			08/28/17 22:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/28/17 22:15	1
Toluene	ND		1.0	0.51	ug/L			08/28/17 22:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/28/17 22:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/28/17 22:15	1
Trichloroethene	ND		1.0	0.46	ug/L			08/28/17 22:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/28/17 22:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/28/17 22:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/28/17 22:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		08/28/17 22:15	1
4-Bromofluorobenzene (Surr)	95		73 - 120		08/28/17 22:15	1
Toluene-d8 (Surr)	97		80 - 120		08/28/17 22:15	1

Lab Sample ID: LCS 480-374316/4
Matrix: Water
Analysis Batch: 374316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.3		ug/L		89	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.8		ug/L		91	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.1		ug/L		96	61 - 148
1,1,2-Trichloroethane	25.0	24.4		ug/L		97	76 - 122
1,1-Dichloroethane	25.0	22.4		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	21.6		ug/L		86	66 - 127
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	56 - 134
1,2-Dibromoethane	25.0	23.4		ug/L		94	77 - 120
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	23.4		ug/L		94	75 - 120
1,2-Dichloropropane	25.0	22.6		ug/L		90	76 - 120
1,3-Dichlorobenzene	25.0	23.3		ug/L		93	77 - 120
1,4-Dichlorobenzene	25.0	22.7		ug/L		91	80 - 120
2-Butanone (MEK)	125	127		ug/L		101	57 - 140
2-Hexanone	125	128		ug/L		102	65 - 127
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125
Acetone	125	142		ug/L		114	56 - 142
Benzene	25.0	22.8		ug/L		91	71 - 124
Bromodichloromethane	25.0	22.6		ug/L		90	80 - 122
Bromoform	25.0	24.8		ug/L		99	61 - 132
Bromomethane	25.0	22.2		ug/L		89	55 - 144
Carbon disulfide	25.0	20.3		ug/L		81	59 - 134
Carbon tetrachloride	25.0	22.9		ug/L		92	72 - 134
Chlorobenzene	25.0	23.2		ug/L		93	80 - 120
Chloroethane	25.0	23.1		ug/L		92	69 - 136
Chloroform	25.0	22.7		ug/L		91	73 - 127
Chloromethane	25.0	24.9		ug/L		100	68 - 124
cis-1,2-Dichloroethene	25.0	22.3		ug/L		89	74 - 124
cis-1,3-Dichloropropene	25.0	23.3		ug/L		93	74 - 124
Cyclohexane	25.0	23.1		ug/L		93	59 - 135
Dibromochloromethane	25.0	24.4		ug/L		98	75 - 125
Dichlorodifluoromethane	25.0	24.0		ug/L		96	59 - 135
Ethylbenzene	25.0	23.5		ug/L		94	77 - 123
Isopropylbenzene	25.0	22.8		ug/L		91	77 - 122
Methyl acetate	125	116		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	23.1		ug/L		92	77 - 120
Methylcyclohexane	25.0	22.7		ug/L		91	68 - 134
Methylene Chloride	25.0	22.3		ug/L		89	75 - 124
Styrene	25.0	23.9		ug/L		96	80 - 120
Tetrachloroethene	25.0	22.8		ug/L		91	74 - 122
Toluene	25.0	23.2		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	22.7		ug/L		91	73 - 127
trans-1,3-Dichloropropene	25.0	24.7		ug/L		99	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-374316/4
Matrix: Water
Analysis Batch: 374316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	25.0	22.1		ug/L		88	74 - 123
Trichlorofluoromethane	25.0	23.4		ug/L		94	62 - 150
Vinyl chloride	25.0	23.8		ug/L		95	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-374019/1-A
Matrix: Water
Analysis Batch: 374280

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		08/25/17 14:21	08/28/17 16:32	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		08/25/17 14:21	08/28/17 16:32	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		08/25/17 14:21	08/28/17 16:32	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		08/25/17 14:21	08/28/17 16:32	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 16:32	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		08/25/17 14:21	08/28/17 16:32	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 16:32	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 16:32	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 16:32	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		08/25/17 14:21	08/28/17 16:32	1
2-Chlorophenol	ND		5.0	0.53	ug/L		08/25/17 14:21	08/28/17 16:32	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		08/25/17 14:21	08/28/17 16:32	1
2-Methylphenol	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 16:32	1
2-Nitroaniline	ND		10	0.42	ug/L		08/25/17 14:21	08/28/17 16:32	1
2-Nitrophenol	ND		5.0	0.48	ug/L		08/25/17 14:21	08/28/17 16:32	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 16:32	1
3-Nitroaniline	ND		10	0.48	ug/L		08/25/17 14:21	08/28/17 16:32	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 16:32	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 16:32	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		08/25/17 14:21	08/28/17 16:32	1
4-Chloroaniline	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 16:32	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 16:32	1
4-Methylphenol	ND		10	0.36	ug/L		08/25/17 14:21	08/28/17 16:32	1
4-Nitroaniline	ND		10	0.25	ug/L		08/25/17 14:21	08/28/17 16:32	1
4-Nitrophenol	ND		10	1.5	ug/L		08/25/17 14:21	08/28/17 16:32	1
Acenaphthene	ND		5.0	0.41	ug/L		08/25/17 14:21	08/28/17 16:32	1
Acenaphthylene	ND		5.0	0.38	ug/L		08/25/17 14:21	08/28/17 16:32	1
Acetophenone	ND		5.0	0.54	ug/L		08/25/17 14:21	08/28/17 16:32	1
Anthracene	ND		5.0	0.28	ug/L		08/25/17 14:21	08/28/17 16:32	1
Atrazine	ND		5.0	0.46	ug/L		08/25/17 14:21	08/28/17 16:32	1
Benzaldehyde	ND		5.0	0.27	ug/L		08/25/17 14:21	08/28/17 16:32	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 16:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-374019/1-A
Matrix: Water
Analysis Batch: 374280

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 16:32	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		08/25/17 14:21	08/28/17 16:32	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 16:32	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		08/25/17 14:21	08/28/17 16:32	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		08/25/17 14:21	08/28/17 16:32	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 16:32	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		08/25/17 14:21	08/28/17 16:32	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		08/25/17 14:21	08/28/17 16:32	1
Caprolactam	ND		5.0	2.2	ug/L		08/25/17 14:21	08/28/17 16:32	1
Carbazole	ND		5.0	0.30	ug/L		08/25/17 14:21	08/28/17 16:32	1
Chrysene	ND		5.0	0.33	ug/L		08/25/17 14:21	08/28/17 16:32	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		08/25/17 14:21	08/28/17 16:32	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 16:32	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		08/25/17 14:21	08/28/17 16:32	1
Dibenzofuran	ND		10	0.51	ug/L		08/25/17 14:21	08/28/17 16:32	1
Diethyl phthalate	ND		5.0	0.22	ug/L		08/25/17 14:21	08/28/17 16:32	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 16:32	1
Fluoranthene	ND		5.0	0.40	ug/L		08/25/17 14:21	08/28/17 16:32	1
Fluorene	ND		5.0	0.36	ug/L		08/25/17 14:21	08/28/17 16:32	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 16:32	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		08/25/17 14:21	08/28/17 16:32	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 16:32	1
Hexachloroethane	ND		5.0	0.59	ug/L		08/25/17 14:21	08/28/17 16:32	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		08/25/17 14:21	08/28/17 16:32	1
Isophorone	ND		5.0	0.43	ug/L		08/25/17 14:21	08/28/17 16:32	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		08/25/17 14:21	08/28/17 16:32	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		08/25/17 14:21	08/28/17 16:32	1
Naphthalene	ND		5.0	0.76	ug/L		08/25/17 14:21	08/28/17 16:32	1
Nitrobenzene	ND		5.0	0.29	ug/L		08/25/17 14:21	08/28/17 16:32	1
Pentachlorophenol	ND		10	2.2	ug/L		08/25/17 14:21	08/28/17 16:32	1
Phenanthrene	ND		5.0	0.44	ug/L		08/25/17 14:21	08/28/17 16:32	1
Phenol	ND		5.0	0.39	ug/L		08/25/17 14:21	08/28/17 16:32	1
Pyrene	ND		5.0	0.34	ug/L		08/25/17 14:21	08/28/17 16:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*62*		*41 - 120*	*08/25/17 14:21*	*08/28/17 16:32*	*1*
2-Fluorobiphenyl	*67*		*48 - 120*	*08/25/17 14:21*	*08/28/17 16:32*	*1*
2-Fluorophenol	*58*		*35 - 120*	*08/25/17 14:21*	*08/28/17 16:32*	*1*
Nitrobenzene-d5	*72*		*46 - 120*	*08/25/17 14:21*	*08/28/17 16:32*	*1*
p-Terphenyl-d14	*78*		*59 - 136*	*08/25/17 14:21*	*08/28/17 16:32*	*1*
Phenol-d5	*45*		*22 - 120*	*08/25/17 14:21*	*08/28/17 16:32*	*1*

Lab Sample ID: LCS 480-374019/2-A
Matrix: Water
Analysis Batch: 374280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	32.0	24.2		ug/L		75	59 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-374019/2-A
Matrix: Water
Analysis Batch: 374280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
bis (2-chloroisopropyl) ether	32.0	24.5		ug/L		77	21 - 136
2,4,5-Trichlorophenol	32.0	26.6		ug/L		83	65 - 126
2,4,6-Trichlorophenol	32.0	25.4		ug/L		79	64 - 120
2,4-Dichlorophenol	32.0	25.2		ug/L		79	63 - 120
2,4-Dimethylphenol	32.0	24.6		ug/L		77	47 - 120
2,4-Dinitrophenol	64.0	58.7		ug/L		92	31 - 137
2,4-Dinitrotoluene	32.0	27.6		ug/L		86	69 - 120
2,6-Dinitrotoluene	32.0	25.9		ug/L		81	68 - 120
2-Chloronaphthalene	32.0	23.7		ug/L		74	58 - 120
2-Chlorophenol	32.0	23.4		ug/L		73	48 - 120
2-Methylnaphthalene	32.0	24.1		ug/L		75	59 - 120
2-Methylphenol	32.0	22.5		ug/L		70	39 - 120
2-Nitroaniline	32.0	26.2		ug/L		82	54 - 127
2-Nitrophenol	32.0	26.3		ug/L		82	52 - 125
3,3'-Dichlorobenzidine	64.0	76.1	E	ug/L		119	49 - 135
3-Nitroaniline	32.0	22.7		ug/L		71	51 - 120
4,6-Dinitro-2-methylphenol	64.0	74.1		ug/L		116	46 - 136
4-Bromophenyl phenyl ether	32.0	25.5		ug/L		80	65 - 120
4-Chloro-3-methylphenol	32.0	25.6		ug/L		80	61 - 123
4-Chloroaniline	32.0	18.0		ug/L		56	30 - 120
4-Chlorophenyl phenyl ether	32.0	25.2		ug/L		79	62 - 120
4-Methylphenol	32.0	22.2		ug/L		70	29 - 131
4-Nitroaniline	32.0	26.6		ug/L		83	65 - 120
4-Nitrophenol	64.0	46.2		ug/L		72	45 - 120
Acenaphthene	32.0	23.4		ug/L		73	60 - 120
Acenaphthylene	32.0	24.5		ug/L		77	63 - 120
Acetophenone	32.0	23.7		ug/L		74	45 - 120
Anthracene	32.0	25.7		ug/L		80	67 - 120
Atrazine	64.0	57.6		ug/L		90	71 - 130
Benzaldehyde	64.0	35.7		ug/L		56	10 - 140
Benzo(a)anthracene	32.0	27.2		ug/L		85	70 - 121
Benzo(a)pyrene	32.0	25.5		ug/L		80	60 - 123
Benzo(b)fluoranthene	32.0	26.5		ug/L		83	66 - 126
Benzo(g,h,i)perylene	32.0	26.1		ug/L		81	66 - 150
Benzo(k)fluoranthene	32.0	25.9		ug/L		81	65 - 124
Bis(2-chloroethoxy)methane	32.0	23.9		ug/L		75	50 - 128
Bis(2-chloroethyl)ether	32.0	22.1		ug/L		69	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	25.5		ug/L		80	63 - 139
Butyl benzyl phthalate	32.0	26.2		ug/L		82	70 - 129
Caprolactam	64.0	22.4		ug/L		35	22 - 120
Carbazole	32.0	28.0		ug/L		88	66 - 123
Chrysene	32.0	25.5		ug/L		80	69 - 120
Di-n-butyl phthalate	32.0	27.5		ug/L		86	69 - 131
Di-n-octyl phthalate	32.0	26.0		ug/L		81	63 - 140
Dibenz(a,h)anthracene	32.0	25.9		ug/L		81	65 - 135
Dibenzofuran	32.0	24.6		ug/L		77	66 - 120
Diethyl phthalate	32.0	26.9		ug/L		84	59 - 127
Dimethyl phthalate	32.0	27.1		ug/L		85	68 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-374019/2-A
Matrix: Water
Analysis Batch: 374280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	32.0	27.0		ug/L		84	69 - 126
Fluorene	32.0	24.9		ug/L		78	66 - 120
Hexachlorobenzene	32.0	25.6		ug/L		80	61 - 120
Hexachlorobutadiene	32.0	21.5		ug/L		67	35 - 120
Hexachlorocyclopentadiene	32.0	17.3		ug/L		54	31 - 120
Hexachloroethane	32.0	20.6		ug/L		64	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	26.0		ug/L		81	69 - 146
Isophorone	32.0	24.8		ug/L		77	55 - 120
N-Nitrosodi-n-propylamine	32.0	24.1		ug/L		75	32 - 140
N-Nitrosodiphenylamine	32.0	25.3		ug/L		79	61 - 120
Naphthalene	32.0	22.6		ug/L		71	57 - 120
Nitrobenzene	32.0	24.3		ug/L		76	53 - 123
Pentachlorophenol	64.0	49.4		ug/L		77	29 - 136
Phenanthrene	32.0	24.8		ug/L		77	68 - 120
Phenol	32.0	15.8		ug/L		50	17 - 120
Pyrene	32.0	26.4		ug/L		82	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*87*		*41 - 120*
2-Fluorobiphenyl	*77*		*48 - 120*
2-Fluorophenol	*65*		*35 - 120*
Nitrobenzene-d5	*80*		*46 - 120*
p-Terphenyl-d14	*83*		*59 - 136*
Phenol-d5	*53*		*22 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-373892/1-A
Matrix: Water
Analysis Batch: 374025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		08/25/17 07:30	08/25/17 15:22	1
4,4'-DDE	ND		0.050	0.012	ug/L		08/25/17 07:30	08/25/17 15:22	1
4,4'-DDT	ND		0.050	0.011	ug/L		08/25/17 07:30	08/25/17 15:22	1
Aldrin	ND		0.050	0.0081	ug/L		08/25/17 07:30	08/25/17 15:22	1
alpha-BHC	0.0116	J	0.050	0.0077	ug/L		08/25/17 07:30	08/25/17 15:22	1
alpha-Chlordane	ND		0.050	0.015	ug/L		08/25/17 07:30	08/25/17 15:22	1
beta-BHC	ND		0.050	0.025	ug/L		08/25/17 07:30	08/25/17 15:22	1
delta-BHC	ND		0.050	0.010	ug/L		08/25/17 07:30	08/25/17 15:22	1
Dieldrin	ND		0.050	0.0098	ug/L		08/25/17 07:30	08/25/17 15:22	1
Endosulfan I	ND		0.050	0.011	ug/L		08/25/17 07:30	08/25/17 15:22	1
Endosulfan II	ND		0.050	0.012	ug/L		08/25/17 07:30	08/25/17 15:22	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		08/25/17 07:30	08/25/17 15:22	1
Endrin	ND		0.050	0.014	ug/L		08/25/17 07:30	08/25/17 15:22	1
Endrin aldehyde	ND		0.050	0.016	ug/L		08/25/17 07:30	08/25/17 15:22	1
Endrin ketone	ND		0.050	0.012	ug/L		08/25/17 07:30	08/25/17 15:22	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		08/25/17 07:30	08/25/17 15:22	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-373892/1-A
Matrix: Water
Analysis Batch: 374025

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	ND		0.050	0.011	ug/L		08/25/17 07:30	08/25/17 15:22	1
Heptachlor	ND		0.050	0.0085	ug/L		08/25/17 07:30	08/25/17 15:22	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		08/25/17 07:30	08/25/17 15:22	1
Methoxychlor	ND		0.050	0.014	ug/L		08/25/17 07:30	08/25/17 15:22	1
Toxaphene	ND		0.50	0.12	ug/L		08/25/17 07:30	08/25/17 15:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*20 - 120*	*08/25/17 07:30*	*08/25/17 15:22*	*1*
DCB Decachlorobiphenyl	*63*		*20 - 120*	*08/25/17 07:30*	*08/25/17 15:22*	*1*
Tetrachloro-m-xylene	*102*		*44 - 120*	*08/25/17 07:30*	*08/25/17 15:22*	*1*
Tetrachloro-m-xylene	*85*		*44 - 120*	*08/25/17 07:30*	*08/25/17 15:22*	*1*

Lab Sample ID: LCS 480-373892/2-A
Matrix: Water
Analysis Batch: 374025

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.402		ug/L		101	64 - 129
4,4'-DDE	0.400	0.327		ug/L		82	50 - 120
4,4'-DDT	0.400	0.376		ug/L		94	59 - 120
Aldrin	0.400	0.271		ug/L		68	40 - 125
alpha-BHC	0.400	0.295		ug/L		74	52 - 125
alpha-Chlordane	0.400	0.332		ug/L		83	52 - 120
beta-BHC	0.400	0.374		ug/L		93	51 - 120
delta-BHC	0.400	0.382		ug/L		96	51 - 120
Dieldrin	0.400	0.403		ug/L		101	66 - 128
Endosulfan I	0.400	0.400		ug/L		100	57 - 120
Endosulfan II	0.400	0.402		ug/L		100	66 - 131
Endosulfan sulfate	0.400	0.422		ug/L		105	66 - 136
Endrin	0.400	0.414		ug/L		103	65 - 135
Endrin aldehyde	0.400	0.304		ug/L		76	61 - 134
Endrin ketone	0.400	0.403		ug/L		101	71 - 133
gamma-BHC (Lindane)	0.400	0.343		ug/L		86	56 - 120
gamma-Chlordane	0.400	0.349		ug/L		87	54 - 120
Heptachlor	0.400	0.351		ug/L		88	58 - 120
Heptachlor epoxide	0.400	0.385		ug/L		96	65 - 125
Methoxychlor	0.400	0.391		ug/L		98	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*52*		*20 - 120*
DCB Decachlorobiphenyl	*45*		*20 - 120*
Tetrachloro-m-xylene	*92*		*44 - 120*
Tetrachloro-m-xylene	*74*		*44 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 480-373892/3-A
Matrix: Water
Analysis Batch: 374025

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373892

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.400	0.408		ug/L		102	64 - 129	1	23
4,4'-DDE			0.400	0.336		ug/L		84	50 - 120	3	22
4,4'-DDT			0.400	0.389		ug/L		97	59 - 120	4	24
Aldrin			0.400	0.280		ug/L		70	40 - 125	3	25
alpha-BHC			0.400	0.290		ug/L		73	52 - 125	2	24
alpha-Chlordane			0.400	0.347		ug/L		87	52 - 120	4	23
beta-BHC			0.400	0.389		ug/L		97	51 - 120	4	24
delta-BHC			0.400	0.400		ug/L		100	51 - 120	5	24
Dieldrin			0.400	0.412		ug/L		103	66 - 128	2	24
Endosulfan I			0.400	0.410		ug/L		102	57 - 120	2	30
Endosulfan II			0.400	0.413		ug/L		103	66 - 131	3	40
Endosulfan sulfate			0.400	0.439		ug/L		110	66 - 136	4	24
Endrin			0.400	0.421		ug/L		105	65 - 135	2	24
Endrin aldehyde			0.400	0.354		ug/L		88	61 - 134	15	28
Endrin ketone			0.400	0.411		ug/L		103	71 - 133	2	26
gamma-BHC (Lindane)			0.400	0.355		ug/L		89	56 - 120	3	24
gamma-Chlordane			0.400	0.360		ug/L		90	54 - 120	3	24
Heptachlor			0.400	0.359		ug/L		90	58 - 120	2	25
Heptachlor epoxide			0.400	0.396		ug/L		99	65 - 125	3	23
Methoxychlor			0.400	0.419		ug/L		105	50 - 150	7	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*20 - 120*
DCB Decachlorobiphenyl	*37*		*20 - 120*
Tetrachloro-m-xylene	*96*		*44 - 120*
Tetrachloro-m-xylene	*72*		*44 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-374278/1-A
Matrix: Water
Analysis Batch: 374407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		08/28/17 14:18	08/29/17 13:57	1
PCB-1221	ND		0.50	0.18	ug/L		08/28/17 14:18	08/29/17 13:57	1
PCB-1232	ND		0.50	0.18	ug/L		08/28/17 14:18	08/29/17 13:57	1
PCB-1242	ND		0.50	0.18	ug/L		08/28/17 14:18	08/29/17 13:57	1
PCB-1248	ND		0.50	0.18	ug/L		08/28/17 14:18	08/29/17 13:57	1
PCB-1254	ND		0.50	0.25	ug/L		08/28/17 14:18	08/29/17 13:57	1
PCB-1260	ND		0.50	0.25	ug/L		08/28/17 14:18	08/29/17 13:57	1
PCB-1262	ND		0.50	0.25	ug/L		08/28/17 14:18	08/29/17 13:57	1
PCB-1268	ND		0.50	0.25	ug/L		08/28/17 14:18	08/29/17 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*39 - 121*	*08/28/17 14:18*	*08/29/17 13:57*	*1*
Tetrachloro-m-xylene	*47*		*39 - 121*	*08/28/17 14:18*	*08/29/17 13:57*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-374278/1-A
Matrix: Water
Analysis Batch: 374407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374278

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	40		19 - 120	08/28/17 14:18	08/29/17 13:57	1
DCB Decachlorobiphenyl	34		19 - 120	08/28/17 14:18	08/29/17 13:57	1

Lab Sample ID: LCS 480-374278/2-A
Matrix: Water
Analysis Batch: 374407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374278

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			4.00	2.90		ug/L		73	62 - 130		
PCB-1260			4.00	2.72		ug/L		68	56 - 123		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	67		39 - 121
Tetrachloro-m-xylene	48		39 - 121
DCB Decachlorobiphenyl	35		19 - 120
DCB Decachlorobiphenyl	31		19 - 120

Lab Sample ID: LCSD 480-374278/3-A
Matrix: Water
Analysis Batch: 374407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374278

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			4.00	2.83		ug/L		71	62 - 130	3	50
PCB-1260			4.00	2.72		ug/L		68	56 - 123	0	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	64		39 - 121
Tetrachloro-m-xylene	47		39 - 121
DCB Decachlorobiphenyl	36		19 - 120
DCB Decachlorobiphenyl	33		19 - 120

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-373992/1-A
Matrix: Water
Analysis Batch: 374374

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 373992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/28/17 07:46	08/28/17 17:47	1
Antimony	ND		0.020	0.0068	mg/L		08/28/17 07:46	08/28/17 17:47	1
Arsenic	ND		0.015	0.0056	mg/L		08/28/17 07:46	08/28/17 17:47	1
Barium	ND		0.0020	0.00070	mg/L		08/28/17 07:46	08/28/17 17:47	1
Beryllium	ND		0.0020	0.00030	mg/L		08/28/17 07:46	08/28/17 17:47	1
Cadmium	ND		0.0020	0.00050	mg/L		08/28/17 07:46	08/28/17 17:47	1
Calcium	ND		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 17:47	1
Chromium	ND		0.0040	0.0010	mg/L		08/28/17 07:46	08/28/17 17:47	1
Cobalt	ND		0.0040	0.00063	mg/L		08/28/17 07:46	08/28/17 17:47	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-373992/1-A
Matrix: Water
Analysis Batch: 374374

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 373992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.010	0.0016	mg/L		08/28/17 07:46	08/28/17 17:47	1
Iron	ND		0.050	0.019	mg/L		08/28/17 07:46	08/28/17 17:47	1
Lead	ND		0.010	0.0030	mg/L		08/28/17 07:46	08/28/17 17:47	1
Magnesium	ND		0.20	0.043	mg/L		08/28/17 07:46	08/28/17 17:47	1
Manganese	0.00134	J	0.0030	0.00040	mg/L		08/28/17 07:46	08/28/17 17:47	1
Nickel	ND		0.010	0.0013	mg/L		08/28/17 07:46	08/28/17 17:47	1
Potassium	ND		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 17:47	1
Selenium	ND		0.025	0.0087	mg/L		08/28/17 07:46	08/28/17 17:47	1
Silver	ND		0.0060	0.0017	mg/L		08/28/17 07:46	08/28/17 17:47	1
Sodium	ND		1.0	0.32	mg/L		08/28/17 07:46	08/28/17 17:47	1
Thallium	ND		0.020	0.010	mg/L		08/28/17 07:46	08/28/17 17:47	1
Vanadium	ND		0.0050	0.0015	mg/L		08/28/17 07:46	08/28/17 17:47	1
Zinc	ND		0.010	0.0015	mg/L		08/28/17 07:46	08/28/17 17:47	1

Lab Sample ID: LCS 480-373992/2-A
Matrix: Water
Analysis Batch: 374374

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 373992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.92		mg/L		99	80 - 120
Antimony	0.200	0.199		mg/L		99	80 - 120
Arsenic	0.200	0.202		mg/L		101	80 - 120
Barium	0.200	0.207		mg/L		104	80 - 120
Beryllium	0.200	0.201		mg/L		101	80 - 120
Cadmium	0.200	0.205		mg/L		103	80 - 120
Calcium	10.0	10.06		mg/L		101	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.200	0.191		mg/L		96	80 - 120
Copper	0.200	0.205		mg/L		102	80 - 120
Iron	10.0	10.41		mg/L		104	80 - 120
Lead	0.200	0.206		mg/L		103	80 - 120
Magnesium	10.0	10.37		mg/L		104	80 - 120
Manganese	0.200	0.213		mg/L		106	80 - 120
Nickel	0.200	0.199		mg/L		99	80 - 120
Potassium	10.0	10.05		mg/L		100	80 - 120
Selenium	0.200	0.206		mg/L		103	80 - 120
Silver	0.0500	0.0469		mg/L		94	80 - 120
Sodium	10.0	9.92		mg/L		99	80 - 120
Thallium	0.200	0.203		mg/L		101	80 - 120
Vanadium	0.200	0.205		mg/L		103	80 - 120
Zinc	0.200	0.205		mg/L		102	80 - 120

Lab Sample ID: MB 480-373973/1-B
Matrix: Water
Analysis Batch: 374381

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 374132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/28/17 07:46	08/28/17 16:52	1
Antimony	ND		0.020	0.0068	mg/L		08/28/17 07:46	08/28/17 16:52	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-373973/1-B
Matrix: Water
Analysis Batch: 374381

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 374132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		08/28/17 07:46	08/28/17 16:52	1
Barium	ND		0.0020	0.00070	mg/L		08/28/17 07:46	08/28/17 16:52	1
Beryllium	ND		0.0020	0.00030	mg/L		08/28/17 07:46	08/28/17 16:52	1
Cadmium	ND		0.0020	0.00050	mg/L		08/28/17 07:46	08/28/17 16:52	1
Calcium	ND		0.50	0.10	mg/L		08/28/17 07:46	08/28/17 16:52	1
Chromium	ND		0.0040	0.0010	mg/L		08/28/17 07:46	08/28/17 16:52	1
Cobalt	ND		0.0040	0.00063	mg/L		08/28/17 07:46	08/28/17 16:52	1
Copper	ND		0.010	0.0016	mg/L		08/28/17 07:46	08/28/17 16:52	1
Iron	ND		0.050	0.019	mg/L		08/28/17 07:46	08/28/17 16:52	1
Lead	ND		0.010	0.0030	mg/L		08/28/17 07:46	08/28/17 16:52	1
Magnesium	ND		0.20	0.043	mg/L		08/28/17 07:46	08/28/17 16:52	1
Manganese	ND		0.0030	0.00040	mg/L		08/28/17 07:46	08/28/17 16:52	1
Nickel	ND		0.010	0.0013	mg/L		08/28/17 07:46	08/28/17 16:52	1
Potassium	0.247	J	0.50	0.10	mg/L		08/28/17 07:46	08/28/17 16:52	1
Selenium	ND		0.025	0.0087	mg/L		08/28/17 07:46	08/28/17 16:52	1
Silver	ND		0.0060	0.0017	mg/L		08/28/17 07:46	08/28/17 16:52	1
Sodium	ND		1.0	0.32	mg/L		08/28/17 07:46	08/28/17 16:52	1
Thallium	ND		0.020	0.010	mg/L		08/28/17 07:46	08/28/17 16:52	1
Vanadium	ND		0.0050	0.0015	mg/L		08/28/17 07:46	08/28/17 16:52	1
Zinc	0.00597	J	0.010	0.0015	mg/L		08/28/17 07:46	08/28/17 16:52	1

Lab Sample ID: LCS 480-373973/2-B
Matrix: Water
Analysis Batch: 374381

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 374132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.95		mg/L		100	80 - 120
Antimony	0.200	0.201		mg/L		100	80 - 120
Arsenic	0.200	0.198		mg/L		99	80 - 120
Barium	0.200	0.204		mg/L		102	80 - 120
Beryllium	0.200	0.200		mg/L		100	80 - 120
Cadmium	0.200	0.202		mg/L		101	80 - 120
Calcium	10.0	9.85		mg/L		98	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.200	0.189		mg/L		94	80 - 120
Copper	0.200	0.200		mg/L		100	80 - 120
Iron	10.0	9.96		mg/L		100	80 - 120
Lead	0.200	0.202		mg/L		101	80 - 120
Magnesium	10.0	10.15		mg/L		102	80 - 120
Manganese	0.200	0.206		mg/L		103	80 - 120
Nickel	0.200	0.193		mg/L		97	80 - 120
Potassium	10.0	10.16		mg/L		102	80 - 120
Selenium	0.200	0.200		mg/L		100	80 - 120
Silver	0.0500	0.0468		mg/L		94	80 - 120
Sodium	10.0	10.13		mg/L		101	80 - 120
Thallium	0.200	0.202		mg/L		101	80 - 120
Vanadium	0.200	0.204		mg/L		102	80 - 120
Zinc	0.200	0.206		mg/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-373942/1-A
Matrix: Water
Analysis Batch: 374045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/25/17 11:15	08/25/17 14:27	1

Lab Sample ID: LCS 480-373942/2-A
Matrix: Water
Analysis Batch: 374045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00622		mg/L		93	80 - 120

Lab Sample ID: MB 480-373973/1-E
Matrix: Water
Analysis Batch: 374303

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 374203

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/28/17 10:45	08/28/17 15:53	1

Lab Sample ID: LCS 480-373973/2-E
Matrix: Water
Analysis Batch: 374303

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 374203

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00612		mg/L		92	80 - 120

Lab Sample ID: 480-123215-2 MS
Matrix: Water
Analysis Batch: 374303

Client Sample ID: NS-LDP-002-GW
Prep Type: Dissolved
Prep Batch: 374203

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00612		mg/L		92	80 - 120

Lab Sample ID: 480-123215-2 MSD
Matrix: Water
Analysis Batch: 374303

Client Sample ID: NS-LDP-002-GW
Prep Type: Dissolved
Prep Batch: 374203

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00613		mg/L		92	80 - 120	0	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-123215-1

GC/MS VOA

Analysis Batch: 374316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total/NA	Water	8260C	
480-123215-2	NS-LDP-002-GW	Total/NA	Water	8260C	
480-123215-3	NS-LDP-003-GW	Total/NA	Water	8260C	
MB 480-374316/6	Method Blank	Total/NA	Water	8260C	
LCS 480-374316/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 374019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total/NA	Water	3510C	
480-123215-2	NS-LDP-002-GW	Total/NA	Water	3510C	
480-123215-3	NS-LDP-003-GW	Total/NA	Water	3510C	
MB 480-374019/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-374019/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 374280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total/NA	Water	8270D	374019
480-123215-2	NS-LDP-002-GW	Total/NA	Water	8270D	374019
480-123215-3	NS-LDP-003-GW	Total/NA	Water	8270D	374019
MB 480-374019/1-A	Method Blank	Total/NA	Water	8270D	374019
LCS 480-374019/2-A	Lab Control Sample	Total/NA	Water	8270D	374019

GC Semi VOA

Prep Batch: 373892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total/NA	Water	3510C	
480-123215-2	NS-LDP-002-GW	Total/NA	Water	3510C	
480-123215-3	NS-LDP-003-GW	Total/NA	Water	3510C	
MB 480-373892/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-373892/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-373892/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 374025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total/NA	Water	8081B	373892
480-123215-2	NS-LDP-002-GW	Total/NA	Water	8081B	373892
480-123215-3	NS-LDP-003-GW	Total/NA	Water	8081B	373892
MB 480-373892/1-A	Method Blank	Total/NA	Water	8081B	373892
LCS 480-373892/2-A	Lab Control Sample	Total/NA	Water	8081B	373892
LCSD 480-373892/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	373892

Prep Batch: 374278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total/NA	Water	3510C	
480-123215-2	NS-LDP-002-GW	Total/NA	Water	3510C	
480-123215-3	NS-LDP-003-GW	Total/NA	Water	3510C	
MB 480-374278/1-A	Method Blank	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 374278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-374278/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-374278/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 374407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total/NA	Water	8082A	374278
480-123215-2	NS-LDP-002-GW	Total/NA	Water	8082A	374278
480-123215-3	NS-LDP-003-GW	Total/NA	Water	8082A	374278
MB 480-374278/1-A	Method Blank	Total/NA	Water	8082A	374278
LCS 480-374278/2-A	Lab Control Sample	Total/NA	Water	8082A	374278
LCSD 480-374278/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	374278

Metals

Prep Batch: 373942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total/NA	Water	7470A	
480-123215-2	NS-LDP-002-GW	Total/NA	Water	7470A	
480-123215-3	NS-LDP-003-GW	Total/NA	Water	7470A	
MB 480-373942/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-373942/2-A	Lab Control Sample	Total/NA	Water	7470A	

Filtration Batch: 373973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Dissolved	Water	FILTRATION	
480-123215-2	NS-LDP-002-GW	Dissolved	Water	FILTRATION	
480-123215-3	NS-LDP-003-GW	Dissolved	Water	FILTRATION	
MB 480-373973/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 480-373973/1-E	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-373973/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	
LCS 480-373973/2-E	Lab Control Sample	Dissolved	Water	FILTRATION	
480-123215-2 MS	NS-LDP-002-GW	Dissolved	Water	FILTRATION	
480-123215-2 MSD	NS-LDP-002-GW	Dissolved	Water	FILTRATION	

Prep Batch: 373992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total Recoverable	Water	3005A	
480-123215-2	NS-LDP-002-GW	Total Recoverable	Water	3005A	
480-123215-3	NS-LDP-003-GW	Total Recoverable	Water	3005A	
MB 480-373992/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-373992/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 374045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total/NA	Water	7470A	373942
480-123215-2	NS-LDP-002-GW	Total/NA	Water	7470A	373942
480-123215-3	NS-LDP-003-GW	Total/NA	Water	7470A	373942
MB 480-373942/1-A	Method Blank	Total/NA	Water	7470A	373942
LCS 480-373942/2-A	Lab Control Sample	Total/NA	Water	7470A	373942

Metals (Continued)

Prep Batch: 374132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Dissolved	Water	3005A	373973
480-123215-2	NS-LDP-002-GW	Dissolved	Water	3005A	373973
480-123215-3	NS-LDP-003-GW	Dissolved	Water	3005A	373973
MB 480-373973/1-B	Method Blank	Dissolved	Water	3005A	373973
LCS 480-373973/2-B	Lab Control Sample	Dissolved	Water	3005A	373973

Prep Batch: 374203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Dissolved	Water	7470A	373973
480-123215-2	NS-LDP-002-GW	Dissolved	Water	7470A	373973
480-123215-3	NS-LDP-003-GW	Dissolved	Water	7470A	373973
MB 480-373973/1-E	Method Blank	Dissolved	Water	7470A	373973
LCS 480-373973/2-E	Lab Control Sample	Dissolved	Water	7470A	373973
480-123215-2 MS	NS-LDP-002-GW	Dissolved	Water	7470A	373973
480-123215-2 MSD	NS-LDP-002-GW	Dissolved	Water	7470A	373973

Analysis Batch: 374303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Dissolved	Water	7470A	374203
480-123215-2	NS-LDP-002-GW	Dissolved	Water	7470A	374203
480-123215-3	NS-LDP-003-GW	Dissolved	Water	7470A	374203
MB 480-373973/1-E	Method Blank	Dissolved	Water	7470A	374203
LCS 480-373973/2-E	Lab Control Sample	Dissolved	Water	7470A	374203
480-123215-2 MS	NS-LDP-002-GW	Dissolved	Water	7470A	374203
480-123215-2 MSD	NS-LDP-002-GW	Dissolved	Water	7470A	374203

Analysis Batch: 374374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total Recoverable	Water	6010C	373992
480-123215-2	NS-LDP-002-GW	Total Recoverable	Water	6010C	373992
480-123215-3	NS-LDP-003-GW	Total Recoverable	Water	6010C	373992
MB 480-373992/1-A	Method Blank	Total Recoverable	Water	6010C	373992
LCS 480-373992/2-A	Lab Control Sample	Total Recoverable	Water	6010C	373992

Analysis Batch: 374381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Dissolved	Water	6010C	374132
480-123215-2	NS-LDP-002-GW	Dissolved	Water	6010C	374132
480-123215-3	NS-LDP-003-GW	Dissolved	Water	6010C	374132
MB 480-373973/1-B	Method Blank	Dissolved	Water	6010C	374132
LCS 480-373973/2-B	Lab Control Sample	Dissolved	Water	6010C	374132

Analysis Batch: 374479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-123215-1	NS-LDP-001-GW	Total Recoverable	Water	6010C	373992
480-123215-2	NS-LDP-002-GW	Total Recoverable	Water	6010C	373992
480-123215-3	NS-LDP-003-GW	Total Recoverable	Water	6010C	373992

Client Sample ID: NS-LDP-001-GW

Lab Sample ID: 480-123215-1

Date Collected: 08/24/17 00:00

Matrix: Water

Date Received: 08/24/17 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	374316	08/29/17 03:15	NEA	TAL BUF
Total/NA	Prep	3510C			374019	08/25/17 14:21	SMP	TAL BUF
Total/NA	Analysis	8270D		1	374280	08/28/17 17:30	PJQ	TAL BUF
Total/NA	Prep	3510C			373892	08/25/17 07:30	JMP	TAL BUF
Total/NA	Analysis	8081B		1	374025	08/25/17 20:35	MAN	TAL BUF
Total/NA	Prep	3510C			374278	08/28/17 14:18	SMP	TAL BUF
Total/NA	Analysis	8082A		1	374407	08/29/17 17:26	JMO	TAL BUF
Dissolved	Filtration	FILTRATION			373973	08/25/17 11:17	EMB	TAL BUF
Dissolved	Prep	3005A			374132	08/28/17 07:46	EMB	TAL BUF
Dissolved	Analysis	6010C		1	374381	08/28/17 17:31	JRK	TAL BUF
Total Recoverable	Prep	3005A			373992	08/28/17 07:46	EMB	TAL BUF
Total Recoverable	Analysis	6010C		1	374374	08/28/17 18:05	AMH	TAL BUF
Total Recoverable	Prep	3005A			373992	08/28/17 07:46	EMB	TAL BUF
Total Recoverable	Analysis	6010C		1	374479	08/29/17 15:24	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			373973	08/25/17 11:17	EMB	TAL BUF
Dissolved	Prep	7470A			374203	08/28/17 10:45	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	374303	08/28/17 15:57	BMB	TAL BUF
Total/NA	Prep	7470A			373942	08/25/17 11:15	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	374045	08/25/17 14:54	BMB	TAL BUF

Client Sample ID: NS-LDP-002-GW

Lab Sample ID: 480-123215-2

Date Collected: 08/24/17 00:00

Matrix: Water

Date Received: 08/24/17 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	374316	08/29/17 03:38	NEA	TAL BUF
Total/NA	Prep	3510C			374019	08/25/17 14:21	SMP	TAL BUF
Total/NA	Analysis	8270D		1	374280	08/28/17 17:59	PJQ	TAL BUF
Total/NA	Prep	3510C			373892	08/25/17 07:30	JMP	TAL BUF
Total/NA	Analysis	8081B		5	374025	08/25/17 20:54	MAN	TAL BUF
Total/NA	Prep	3510C			374278	08/28/17 14:18	SMP	TAL BUF
Total/NA	Analysis	8082A		1	374407	08/29/17 17:42	JMO	TAL BUF
Dissolved	Filtration	FILTRATION			373973	08/25/17 11:17	EMB	TAL BUF
Dissolved	Prep	3005A			374132	08/28/17 07:46	EMB	TAL BUF
Dissolved	Analysis	6010C		1	374381	08/28/17 17:35	JRK	TAL BUF
Total Recoverable	Prep	3005A			373992	08/28/17 07:46	EMB	TAL BUF
Total Recoverable	Analysis	6010C		1	374374	08/28/17 18:09	AMH	TAL BUF
Total Recoverable	Prep	3005A			373992	08/28/17 07:46	EMB	TAL BUF
Total Recoverable	Analysis	6010C		1	374479	08/29/17 15:28	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			373973	08/25/17 11:17	EMB	TAL BUF
Dissolved	Prep	7470A			374203	08/28/17 10:45	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	374303	08/28/17 15:59	BMB	TAL BUF
Total/NA	Prep	7470A			373942	08/25/17 11:15	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	374045	08/25/17 14:56	BMB	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-123215-1

Client Sample ID: NS-LDP-003-GW

Date Collected: 08/24/17 00:00
Date Received: 08/24/17 17:02

Lab Sample ID: 480-123215-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	374316	08/29/17 04:01	NEA	TAL BUF
Total/NA	Prep	3510C			374019	08/25/17 14:21	SMP	TAL BUF
Total/NA	Analysis	8270D		1	374280	08/28/17 18:28	PJQ	TAL BUF
Total/NA	Prep	3510C			373892	08/25/17 07:30	JMP	TAL BUF
Total/NA	Analysis	8081B		1	374025	08/25/17 21:14	MAN	TAL BUF
Total/NA	Prep	3510C			374278	08/28/17 14:18	SMP	TAL BUF
Total/NA	Analysis	8082A		1	374407	08/29/17 17:58	JMO	TAL BUF
Dissolved	Filtration	FILTRATION			373973	08/25/17 11:17	EMB	TAL BUF
Dissolved	Prep	3005A			374132	08/28/17 07:46	EMB	TAL BUF
Dissolved	Analysis	6010C		1	374381	08/28/17 17:38	JRK	TAL BUF
Total Recoverable	Prep	3005A			373992	08/28/17 07:46	EMB	TAL BUF
Total Recoverable	Analysis	6010C		1	374374	08/28/17 18:12	AMH	TAL BUF
Total Recoverable	Prep	3005A			373992	08/28/17 07:46	EMB	TAL BUF
Total Recoverable	Analysis	6010C		1	374479	08/29/17 15:31	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			373973	08/25/17 11:17	EMB	TAL BUF
Dissolved	Prep	7470A			374203	08/28/17 10:45	MVZ	TAL BUF
Dissolved	Analysis	7470A		1	374303	08/28/17 16:09	BMB	TAL BUF
Total/NA	Prep	7470A			373942	08/25/17 11:15	MVZ	TAL BUF
Total/NA	Analysis	7470A		1	374045	08/25/17 14:58	BMB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Nash Rd. Wheatfield #932054

TestAmerica Job ID: 480-123215-1

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
NS-LDP-001-GW	480-123215-1	101	98	95
NS-LDP-002-GW	480-123215-2	101	98	98
NS-LDP-003-GW	480-123215-3	100	99	97
	MB 480-374316/6	101	97	95
	LCS 480-374316/4	98	100	99

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S1368.D

Lab ID: LCS 480-374316/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	22.3	89	73-126	
1,1,2,2-Tetrachloroethane	25.0	22.8	91	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.1	96	61-148	
1,1,2-Trichloroethane	25.0	24.4	97	76-122	
1,1-Dichloroethane	25.0	22.4	90	77-120	
1,1-Dichloroethene	25.0	21.6	86	66-127	
1,2,4-Trichlorobenzene	25.0	23.4	94	79-122	
1,2-Dibromo-3-Chloropropane	25.0	22.5	90	56-134	
1,2-Dibromoethane	25.0	23.4	94	77-120	
1,2-Dichlorobenzene	25.0	23.2	93	80-124	
1,2-Dichloroethane	25.0	23.4	94	75-120	
1,2-Dichloropropane	25.0	22.6	90	76-120	
1,3-Dichlorobenzene	25.0	23.3	93	77-120	
1,4-Dichlorobenzene	25.0	22.7	91	80-120	
2-Butanone (MEK)	125	127	101	57-140	
2-Hexanone	125	128	102	65-127	
4-Methyl-2-pentanone (MIBK)	125	125	100	71-125	
Acetone	125	142	114	56-142	
Benzene	25.0	22.8	91	71-124	
Bromodichloromethane	25.0	22.6	90	80-122	
Bromoform	25.0	24.8	99	61-132	
Bromomethane	25.0	22.2	89	55-144	
Carbon disulfide	25.0	20.3	81	59-134	
Carbon tetrachloride	25.0	22.9	92	72-134	
Chlorobenzene	25.0	23.2	93	80-120	
Chloroethane	25.0	23.1	92	69-136	
Chloroform	25.0	22.7	91	73-127	
Chloromethane	25.0	24.9	100	68-124	
cis-1,2-Dichloroethene	25.0	22.3	89	74-124	
cis-1,3-Dichloropropene	25.0	23.3	93	74-124	
Cyclohexane	25.0	23.1	93	59-135	
Dibromochloromethane	25.0	24.4	98	75-125	
Dichlorodifluoromethane	25.0	24.0	96	59-135	
Ethylbenzene	25.0	23.5	94	77-123	
Isopropylbenzene	25.0	22.8	91	77-122	
Methyl acetate	125	116	93	74-133	
Methyl tert-butyl ether	25.0	23.1	92	77-120	
Methylcyclohexane	25.0	22.7	91	68-134	
Methylene Chloride	25.0	22.3	89	75-124	
Styrene	25.0	23.9	96	80-120	
Tetrachloroethene	25.0	22.8	91	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S1368.D

Lab ID: LCS 480-374316/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	23.2	93	80-122	
trans-1,2-Dichloroethene	25.0	22.7	91	73-127	
trans-1,3-Dichloropropene	25.0	24.7	99	80-120	
Trichloroethene	25.0	22.1	88	74-123	
Trichlorofluoromethane	25.0	23.4	94	62-150	
Vinyl chloride	25.0	23.8	95	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab File ID: S1370.D Lab Sample ID: MB 480-374316/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5973S Date Analyzed: 08/28/2017 22:15

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-374316/4	S1368.D	08/28/2017 21:29
NS-LDP-001-GW	480-123215-1	S1382.D	08/29/2017 03:15
NS-LDP-002-GW	480-123215-2	S1383.D	08/29/2017 03:38
NS-LDP-003-GW	480-123215-3	S1384.D	08/29/2017 04:01

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab File ID: S1025.D BFB Injection Date: 08/19/2017

Instrument ID: HP5973S BFB Injection Time: 13:19

Analysis Batch No.: 372976

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.1	
75	30.0 - 60.0 % of mass 95	51.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	85.9	
175	5.0 - 9.0 % of mass 174	6.6	(7.6) 1
176	95.0 - 101.0 % of mass 174	81.9	(95.4) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-372976/8	S1027.D	08/19/2017	14:06
	IC 480-372976/9	S1028.D	08/19/2017	14:30
	IC 480-372976/10	S1029.D	08/19/2017	14:53
	IC 480-372976/11	S1030.D	08/19/2017	15:16
	IC 480-372976/12	S1031.D	08/19/2017	15:39
	ICIS 480-372976/13	S1032.D	08/19/2017	16:02
	IC 480-372976/14	S1033.D	08/19/2017	16:25
	IC 480-372976/15	S1034.D	08/19/2017	16:48

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab File ID: S1365.D BFB Injection Date: 08/28/2017

Instrument ID: HP5973S BFB Injection Time: 20:10

Analysis Batch No.: 374316

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.7	
75	30.0 - 60.0 % of mass 95	51.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	84.7	
175	5.0 - 9.0 % of mass 174	6.2	(7.3) 1
176	95.0 - 101.0 % of mass 174	81.7	(96.4) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-374316/2	S1366.D	08/28/2017	20:43
	LCS 480-374316/4	S1368.D	08/28/2017	21:29
	MB 480-374316/6	S1370.D	08/28/2017	22:15
NS-LDP-001-GW	480-123215-1	S1382.D	08/29/2017	03:15
NS-LDP-002-GW	480-123215-2	S1383.D	08/29/2017	03:38
NS-LDP-003-GW	480-123215-3	S1384.D	08/29/2017	04:01

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: ICIS 480-372976/13 Date Analyzed: 08/19/2017 16:02

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): S1032.D Heated Purge: (Y/N) N

Calibration ID: 31180

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		183588	5.55	380015	8.55	371951	10.92
UPPER LIMIT		367176	6.05	760030	9.05	743902	11.42
LOWER LIMIT		91794	5.05	190008	8.05	185976	10.42
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-374316/2		166225	5.55	335085	8.55	340966	10.92

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: CCVIS 480-374316/2 Date Analyzed: 08/28/2017 20:43

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): S1366.D Heated Purge: (Y/N) N

Calibration ID: 31183

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		166225	5.55	335085	8.55	340966	10.92
UPPER LIMIT		332450	6.05	670170	9.05	681932	11.42
LOWER LIMIT		83113	5.05	167543	8.05	170483	10.42
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-374316/4		163357	5.55	327590	8.55	331251	10.92
MB 480-374316/6		154196	5.55	317600	8.55	303509	10.92
480-123215-1	NS-LDP-001-GW	145634	5.55	301972	8.55	291178	10.92
480-123215-2	NS-LDP-002-GW	151343	5.55	312689	8.55	293647	10.92
480-123215-3	NS-LDP-003-GW	151303	5.55	306050	8.55	299931	10.92

FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-001-GW | Lab Sample ID: 480-123215-1

Matrix: Water | Lab File ID: S1382.D

Analysis Method: 8260C | Date Collected: 08/24/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/29/2017 03:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 374316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	9.8	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-001-GW | Lab Sample ID: 480-123215-1

Matrix: Water | Lab File ID: S1382.D

Analysis Method: 8260C | Date Collected: 08/24/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/29/2017 03:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 374316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1382.D
Lims ID: 480-123215-I-1
Client ID: NS-LDP-001-GW
Sample Type: Client
Inject. Date: 29-Aug-2017 03:15:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-123215-I-1
Misc. Info.: 480-0065208-019
Operator ID: AS Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Aug-2017 09:26:57 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: archern Date: 29-Aug-2017 09:26:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	98	145634	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	87	301972	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	95	291178	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	117259	25.3	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	93	710386	24.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.793	0.006	91	226118	23.8	
10 Dichlorodifluoromethane	85		1.300				ND	
12 Chloromethane	50		1.495				ND	
13 Vinyl chloride	62		1.580				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		1.999				ND	
17 Trichlorofluoromethane	101		2.225				ND	
22 1,1-Dichloroethene	96		2.766				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.766				ND	
23 Acetone	43	2.876	2.863	0.013	90	25857	9.84	
26 Carbon disulfide	76		2.961				ND	
27 Methyl acetate	43		3.168				ND	
30 Methylene Chloride	84		3.265				ND	
32 Methyl tert-butyl ether	73		3.490				ND	
34 trans-1,2-Dichloroethene	96		3.502				ND	
39 1,1-Dichloroethane	63		3.928				ND	
45 cis-1,2-Dichloroethene	96		4.482				ND	
43 2-Butanone (MEK)	43		4.518				ND	
50 Chloroform	83		4.798				ND	
51 1,1,1-Trichloroethane	97		4.920				ND	
52 Cyclohexane	56		4.932				ND	
55 Carbon tetrachloride	117		5.066				ND	
57 Benzene	78		5.279				ND	
58 1,2-Dichloroethane	62		5.339				ND	
62 Trichloroethene	95		5.893				ND	
64 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
65 1,2-Dichloropropane	63		6.130				ND	
68 Dichlorobromomethane	83		6.416				ND	
72 cis-1,3-Dichloropropene	75		6.836				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.976				ND	
74 Toluene	92		7.128				ND	
77 trans-1,3-Dichloropropene	75		7.402				ND	
79 1,1,2-Trichloroethane	83		7.590				ND	
81 Tetrachloroethene	166		7.669				ND	
80 2-Hexanone	43		7.821				ND	
83 Chlorodibromomethane	129		7.992				ND	
84 Ethylene Dibromide	107		8.101				ND	
87 Chlorobenzene	112		8.582				ND	
88 Ethylbenzene	91		8.673				ND	
90 m-Xylene & p-Xylene	106		8.795				ND	
91 o-Xylene	106		9.221				ND	
92 Styrene	104		9.251				ND	
95 Bromoform	173		9.494				ND	
94 Isopropylbenzene	105		9.604				ND	
97 1,1,2,2-Tetrachloroethane	83		9.987				ND	
111 1,3-Dichlorobenzene	146		10.863				ND	
113 1,4-Dichlorobenzene	146		10.948				ND	
116 1,2-Dichlorobenzene	146		11.295				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.019				ND	
119 1,2,4-Trichlorobenzene	180		12.694				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00258	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent

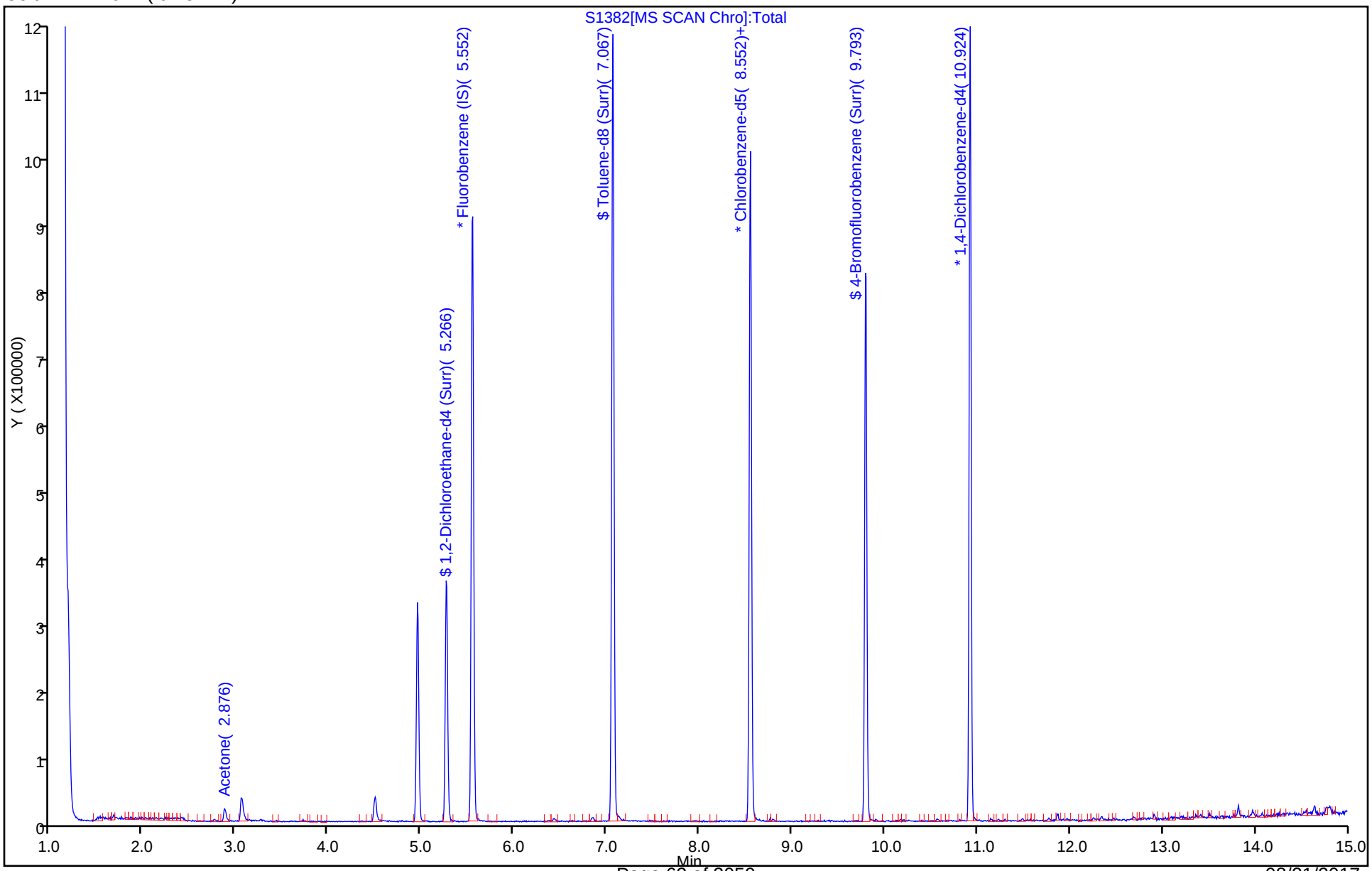
Report Date: 29-Aug-2017 09:26:57 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1382.D

Injection Date:	29-Aug-2017 03:15:30	Instrument ID:	HP5973S	Operator ID:	AS
Lims ID:	480-123215-I-1	Lab Sample ID:	480-123215-1	Worklist Smp#:	19
Client ID:	NS-LDP-001-GW				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

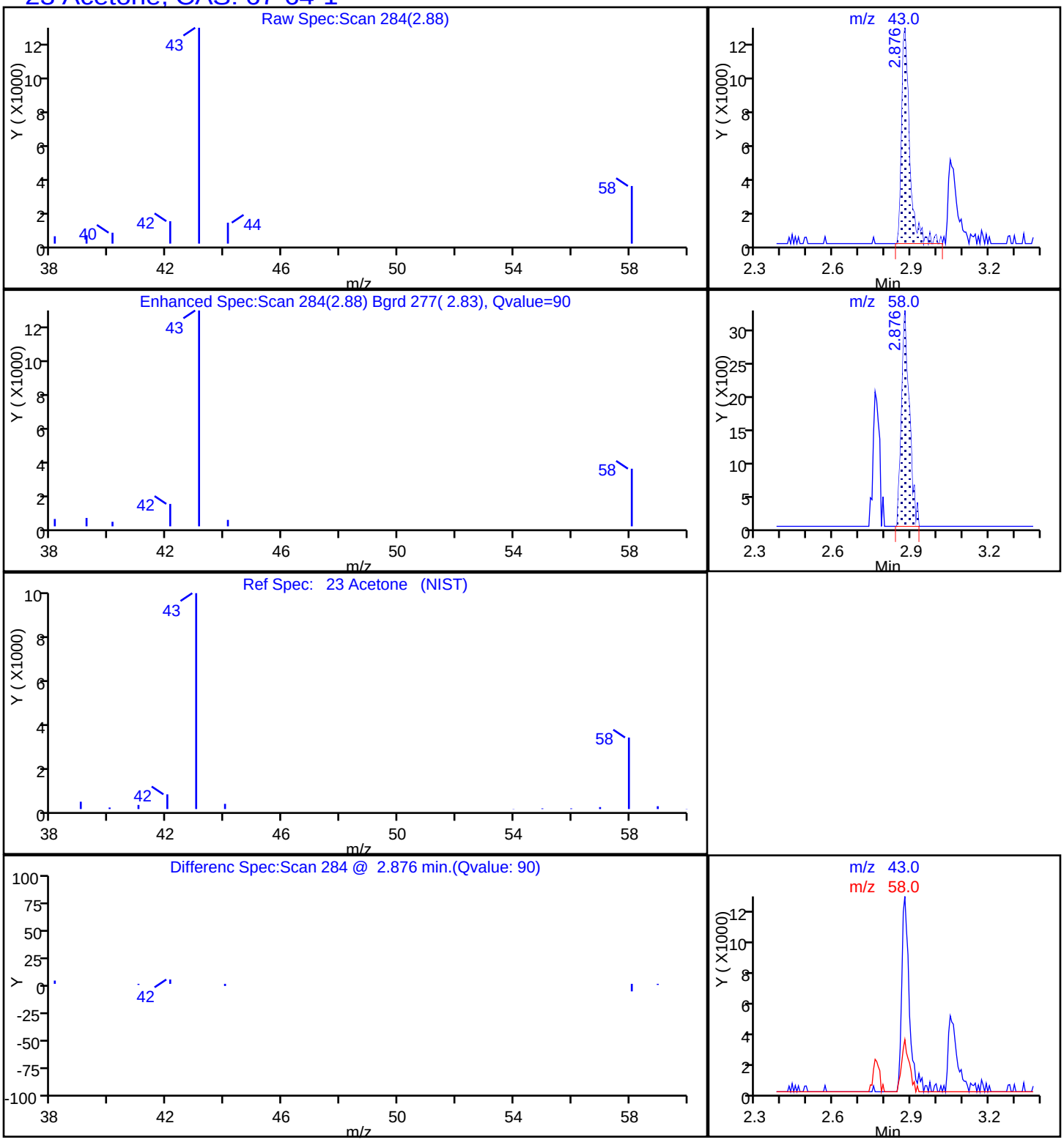
Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1382.D				
Injection Date:	29-Aug-2017 03:15:30	Instrument ID:	HP5973S		
Lims ID:	480-123215-I-1	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	AS	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-002-GW | Lab Sample ID: 480-123215-2

Matrix: Water | Lab File ID: S1383.D

Analysis Method: 8260C | Date Collected: 08/24/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/29/2017 03:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 374316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	1.5	J	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	17		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-002-GW | Lab Sample ID: 480-123215-2

Matrix: Water | Lab File ID: S1383.D

Analysis Method: 8260C | Date Collected: 08/24/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/29/2017 03:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 374316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1383.D
Lims ID: 480-123215-I-2
Client ID: NS-LDP-002-GW
Sample Type: Client
Inject. Date: 29-Aug-2017 03:38:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-123215-I-2
Misc. Info.: 480-0065208-020
Operator ID: AS Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Aug-2017 09:28:29 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: archern Date: 29-Aug-2017 09:28:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	98	151343	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	85	312689	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	94	293647	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	121415	25.2	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	93	741120	24.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.793	0.006	91	241737	24.5	
10 Dichlorodifluoromethane	85		1.300				ND	
12 Chloromethane	50		1.495				ND	
13 Vinyl chloride	62		1.580				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		1.999				ND	
17 Trichlorofluoromethane	101		2.225				ND	
22 1,1-Dichloroethene	96		2.766				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.766				ND	
23 Acetone	43	2.876	2.863	0.013	94	45236	16.6	
26 Carbon disulfide	76		2.961				ND	
27 Methyl acetate	43		3.168				ND	
30 Methylene Chloride	84		3.265				ND	
32 Methyl tert-butyl ether	73		3.490				ND	
34 trans-1,2-Dichloroethene	96		3.502				ND	
39 1,1-Dichloroethane	63		3.928				ND	
45 cis-1,2-Dichloroethene	96		4.482				ND	
43 2-Butanone (MEK)	43		4.518				ND	
50 Chloroform	83		4.798				ND	
51 1,1,1-Trichloroethane	97		4.920				ND	
52 Cyclohexane	56		4.932				ND	
55 Carbon tetrachloride	117		5.066				ND	
57 Benzene	78		5.279				ND	
58 1,2-Dichloroethane	62		5.339				ND	
62 Trichloroethene	95		5.893				ND	
64 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
65 1,2-Dichloropropane	63		6.130				ND	
68 Dichlorobromomethane	83		6.416				ND	
72 cis-1,3-Dichloropropene	75		6.836				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.976				ND	
74 Toluene	92		7.128				ND	
77 trans-1,3-Dichloropropene	75		7.402				ND	
79 1,1,2-Trichloroethane	83		7.590				ND	
81 Tetrachloroethene	166		7.669				ND	
80 2-Hexanone	43	7.846	7.821	0.025	68	8855	1.50	
83 Chlorodibromomethane	129		7.992				ND	
84 Ethylene Dibromide	107		8.101				ND	
87 Chlorobenzene	112		8.582				ND	
88 Ethylbenzene	91		8.673				ND	
90 m-Xylene & p-Xylene	106	8.807	8.807	0.012	0	2201	0.1580	
91 o-Xylene	106		9.221				ND	
92 Styrene	104		9.251				ND	
95 Bromoform	173		9.494				ND	
94 Isopropylbenzene	105		9.604				ND	
97 1,1,2,2-Tetrachloroethane	83		9.987				ND	
111 1,3-Dichlorobenzene	146		10.863				ND	
113 1,4-Dichlorobenzene	146		10.948				ND	
116 1,2-Dichlorobenzene	146		11.295				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.019				ND	
119 1,2,4-Trichlorobenzene	180		12.694				ND	
S 124 Xylenes, Total	1				0		0.1580	

Reagents:

S_8260_IS_00258	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent

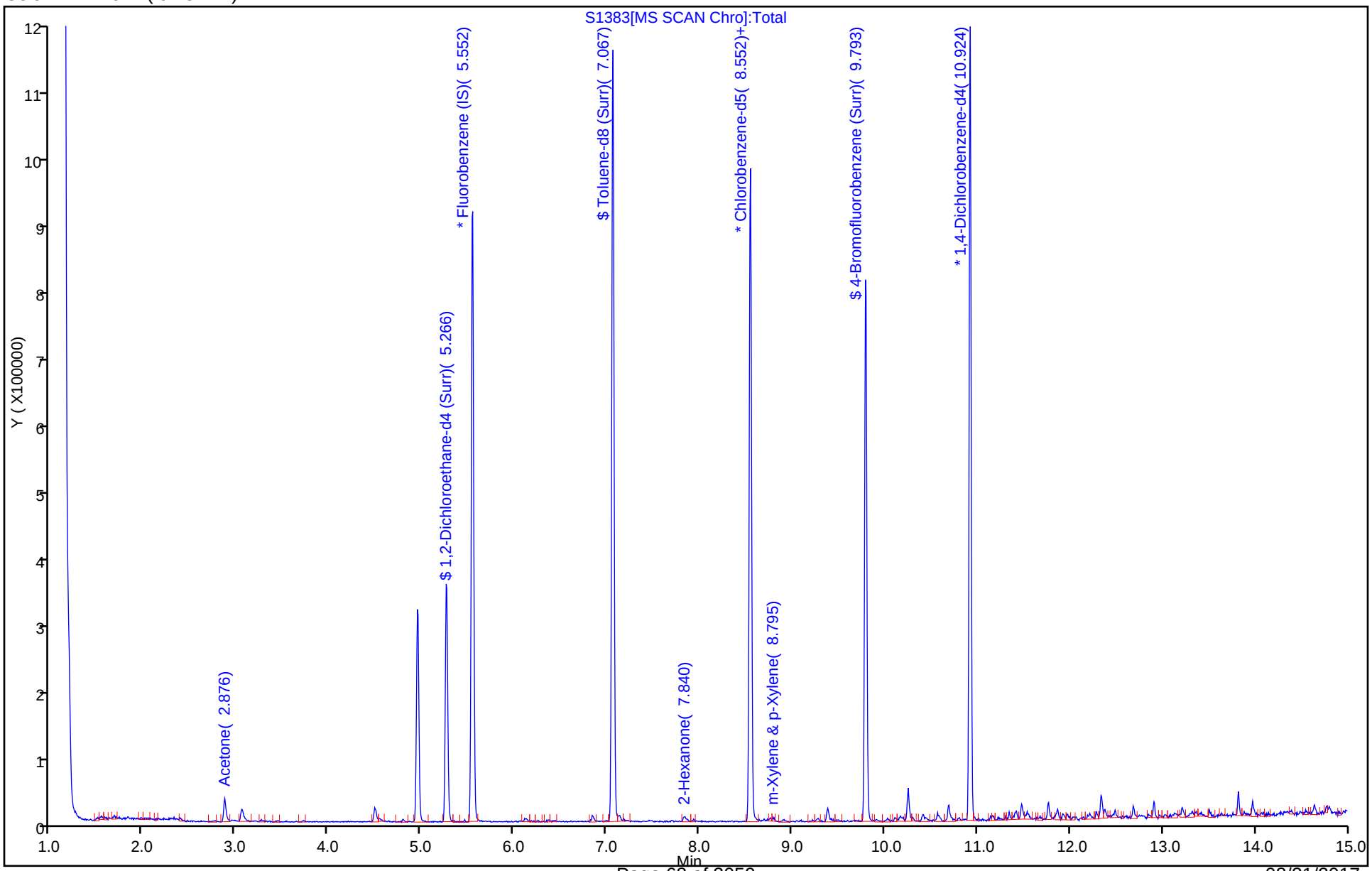
Report Date: 29-Aug-2017 09:28:41 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1383.D

Injection Date:	29-Aug-2017 03:38:30	Instrument ID:	HP5973S	Operator ID:	AS
Lims ID:	480-123215-I-2	Lab Sample ID:	480-123215-2	Worklist Smp#:	20
Client ID:	NS-LDP-002-GW				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

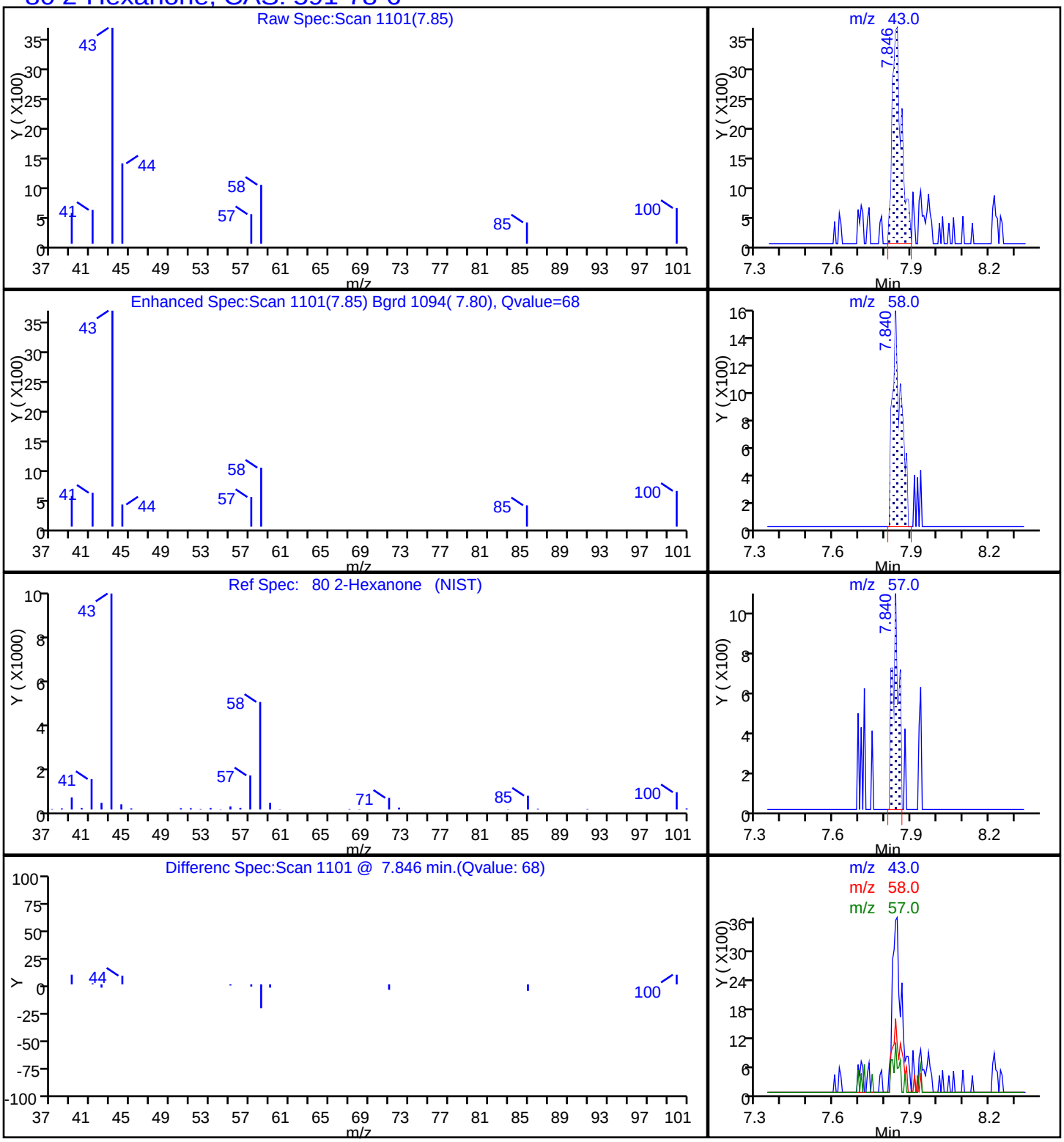
Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1383.D				
Injection Date:	29-Aug-2017 03:38:30	Instrument ID:	HP5973S		
Lims ID:	480-123215-I-2	Lab Sample ID:	480-123215-2		
Client ID:	NS-LDP-002-GW				
Operator ID:	AS	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

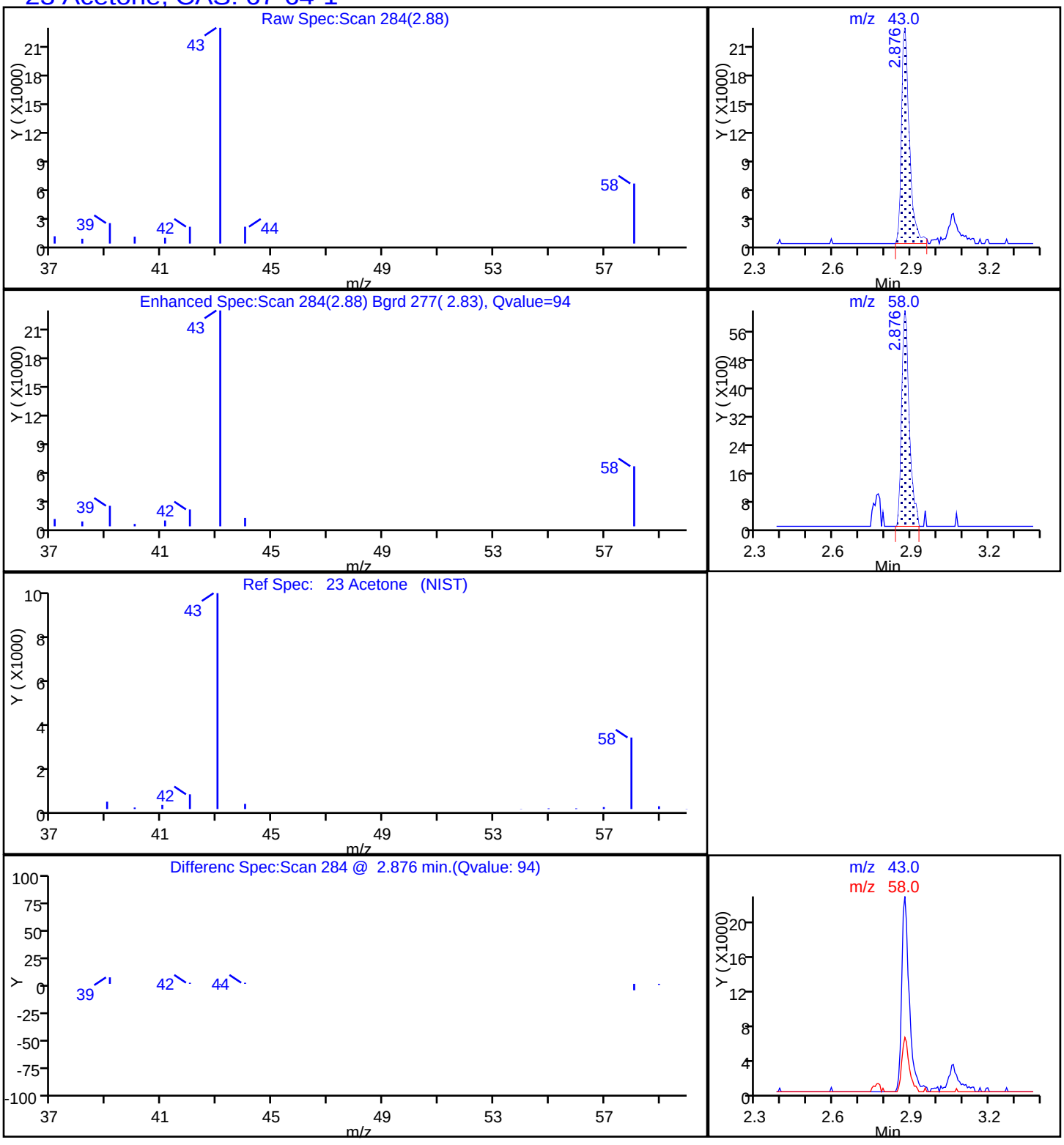
80 2-Hexanone, CAS: 591-78-6



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1383.D				
Injection Date:	29-Aug-2017 03:38:30	Instrument ID:	HP5973S		
Lims ID:	480-123215-I-2	Lab Sample ID:	480-123215-2		
Client ID:	NS-LDP-002-GW				
Operator ID:	AS	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-003-GW | Lab Sample ID: 480-123215-3

Matrix: Water | Lab File ID: S1384.D

Analysis Method: 8260C | Date Collected: 08/24/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/29/2017 04:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 374316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	22		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-003-GW | Lab Sample ID: 480-123215-3

Matrix: Water | Lab File ID: S1384.D

Analysis Method: 8260C | Date Collected: 08/24/2017 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/29/2017 04:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 374316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1384.D
Lims ID: 480-123215-I-3
Client ID: NS-LDP-003-GW
Sample Type: Client
Inject. Date: 29-Aug-2017 04:01:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-123215-I-3
Misc. Info.: 480-0065208-021
Operator ID: AS Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Aug-2017 09:29:36 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: archern Date: 29-Aug-2017 09:29:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.552	5.546	0.006	99	151303	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	87	306050	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	94	299931	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.273	5.266	0.007	0	120144	24.9	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	93	729102	24.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.793	0.006	90	233573	24.2	
10 Dichlorodifluoromethane	85		1.300				ND	
12 Chloromethane	50		1.495				ND	
13 Vinyl chloride	62		1.580				ND	
14 Bromomethane	94		1.920				ND	
15 Chloroethane	64		1.999				ND	
17 Trichlorofluoromethane	101		2.225				ND	
22 1,1-Dichloroethene	96		2.766				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.766				ND	
23 Acetone	43	2.876	2.863	0.013	97	60008	22.0	
26 Carbon disulfide	76		2.961				ND	
27 Methyl acetate	43		3.168				ND	
30 Methylene Chloride	84		3.265				ND	
32 Methyl tert-butyl ether	73		3.490				ND	
34 trans-1,2-Dichloroethene	96		3.502				ND	
39 1,1-Dichloroethane	63		3.928				ND	
45 cis-1,2-Dichloroethene	96		4.482				ND	
43 2-Butanone (MEK)	43		4.518				ND	
50 Chloroform	83		4.798				ND	
51 1,1,1-Trichloroethane	97		4.920				ND	
52 Cyclohexane	56		4.932				ND	
55 Carbon tetrachloride	117		5.066				ND	
57 Benzene	78		5.279				ND	
58 1,2-Dichloroethane	62		5.339				ND	
62 Trichloroethene	95		5.893				ND	
64 Methylcyclohexane	83		6.015				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
65 1,2-Dichloropropane	63		6.130				ND	
68 Dichlorobromomethane	83		6.416				ND	
72 cis-1,3-Dichloropropene	75		6.836				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.976				ND	
74 Toluene	92		7.128				ND	
77 trans-1,3-Dichloropropene	75		7.402				ND	
79 1,1,2-Trichloroethane	83		7.590				ND	
81 Tetrachloroethene	166		7.669				ND	
80 2-Hexanone	43		7.821				ND	
83 Chlorodibromomethane	129		7.992				ND	
84 Ethylene Dibromide	107		8.101				ND	
87 Chlorobenzene	112		8.582				ND	
88 Ethylbenzene	91		8.673				ND	
90 m-Xylene & p-Xylene	106		8.795				ND	
91 o-Xylene	106		9.221				ND	
92 Styrene	104		9.251				ND	
95 Bromoform	173		9.494				ND	
94 Isopropylbenzene	105		9.604				ND	
97 1,1,2,2-Tetrachloroethane	83		9.987				ND	
111 1,3-Dichlorobenzene	146		10.863				ND	
113 1,4-Dichlorobenzene	146		10.948				ND	
116 1,2-Dichlorobenzene	146		11.295				ND	
117 1,2-Dibromo-3-Chloropropan	75		12.019				ND	
119 1,2,4-Trichlorobenzene	180		12.694				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00258	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent

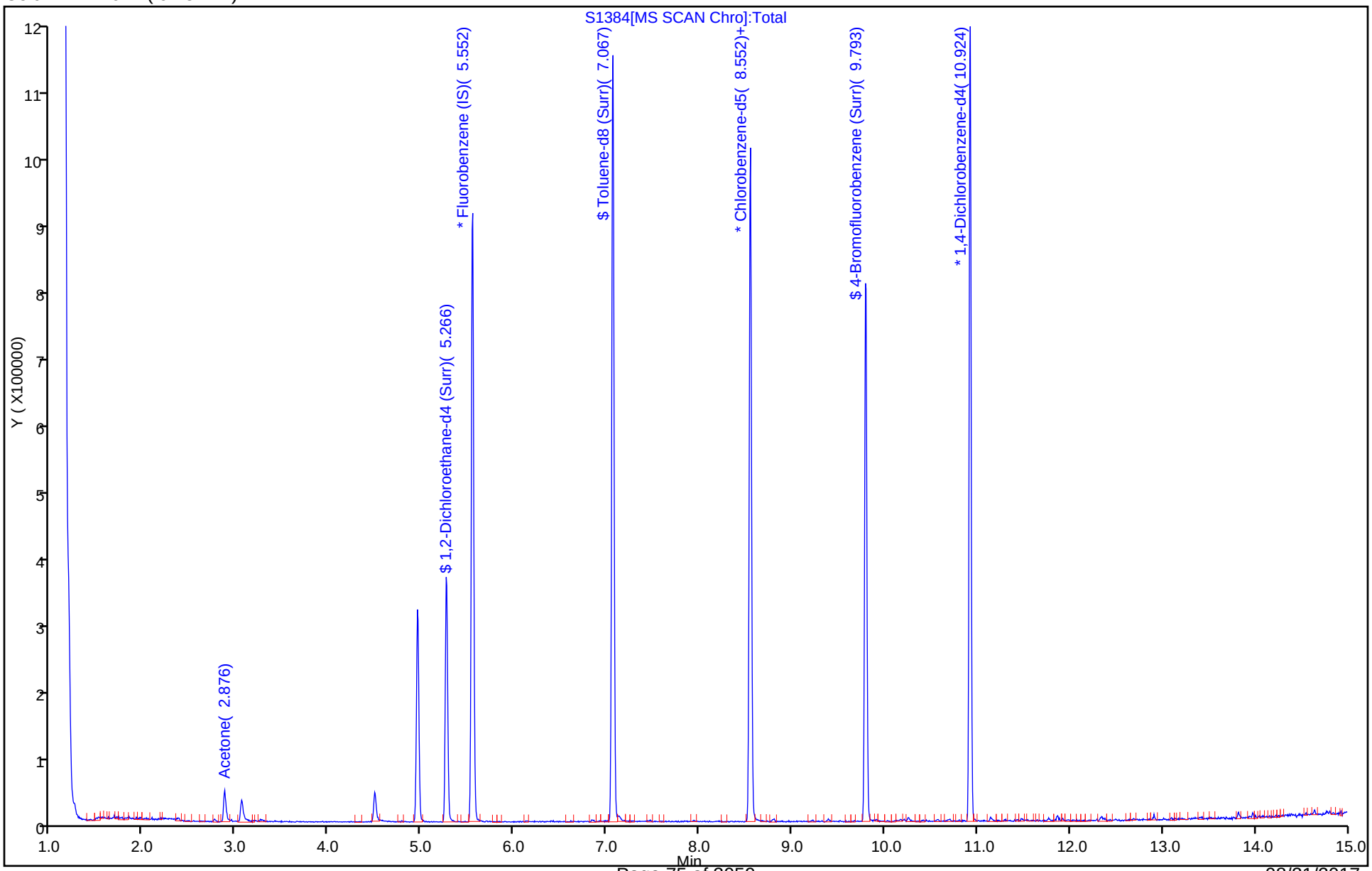
Report Date: 29-Aug-2017 09:29:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1384.D

Injection Date:	29-Aug-2017 04:01:30	Instrument ID:	HP5973S	Operator ID:	AS
Lims ID:	480-123215-I-3	Lab Sample ID:	480-123215-3	Worklist Smp#:	21
Client ID:	NS-LDP-003-GW				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

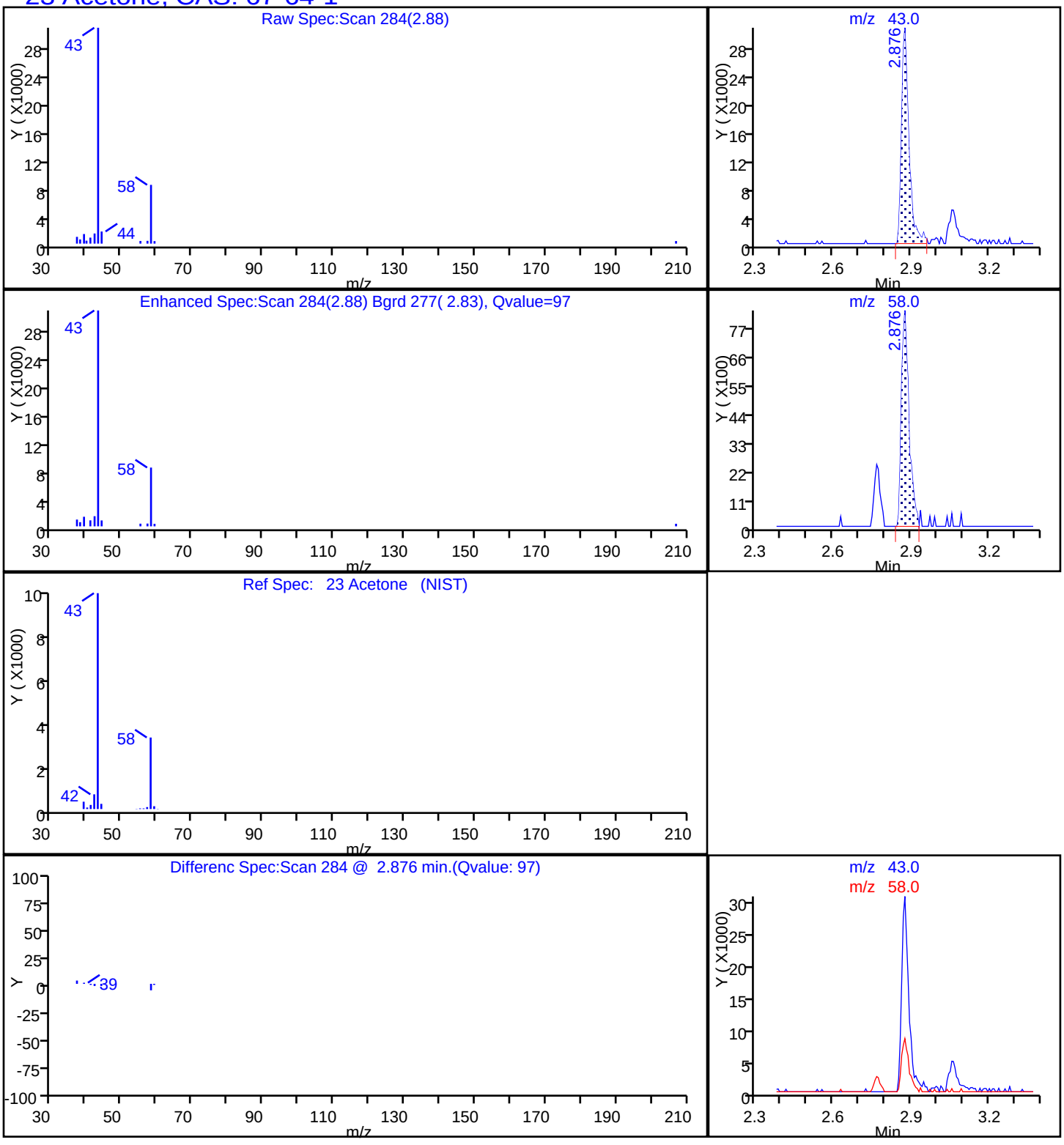
Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1384.D				
Injection Date:	29-Aug-2017 04:01:30	Instrument ID:	HP5973S		
Lims ID:	480-123215-I-3	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	AS	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372976

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2017 14:06 Calibration End Date: 08/19/2017 16:48 Calibration ID: 31180

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-372976/8	S1027.D
Level 2	IC 480-372976/9	S1028.D
Level 3	IC 480-372976/10	S1029.D
Level 4	IC 480-372976/11	S1030.D
Level 5	IC 480-372976/12	S1031.D
Level 6	ICIS 480-372976/13	S1032.D
Level 7	IC 480-372976/14	S1033.D
Level 8	IC 480-372976/15	S1034.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.1038 1.1674	1.3158 1.1108	1.0733 1.2318	0.9957	1.0583	Ave		1.1321			0.1000	9.1		20.0			
Chloromethane	+++++ 1.3941	1.8867 1.3862	1.5744 1.3906	1.3217	1.3367	Ave		1.4701			0.1000	13.7		20.0			
Vinyl chloride	1.3469 1.3359	1.5912 1.2874	1.3277 1.3529	1.1859	1.2157	Ave		1.3305			0.1000	9.2		20.0			
Butadiene	1.6791 1.1584	1.6144 1.1993	1.2967 1.2415	1.0543	1.0858	Ave		1.2912				18.1		20.0			
Bromomethane	+++++ 0.8550	1.1013 0.8343	1.0757 0.8461	0.8311	0.8659	Ave		0.9156			0.1000	13.0		20.0			
Chloroethane	1.5197 0.8335	1.3545 0.8301	0.9327 0.8262	0.8572	0.8856	Lin1	0.3781	0.8220			0.1000				1.0000		0.9900
Dichlorofluoromethane	2.2424 1.8692	2.7143 1.8585	2.2235 1.9262	1.8345	1.9545	Ave		2.0779				14.6		20.0			
Trichlorofluoromethane	+++++ 1.7116	1.9837 1.6093	1.5529 1.7782	1.4695	1.5603	Ave		1.6665			0.1000	10.4		20.0			
Ethyl ether	+++++ 1.1441	1.2725 1.1759	0.9286 1.1623	1.0380	1.1275	Ave		1.1213				9.8		20.0			
Acrolein	+++++ 0.2000	0.2275 0.2079	0.2021 0.2068	0.1847	0.2029	Ave		0.2046				6.2		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.8636	0.8958 0.8751	0.6780 1.0103	0.8420	0.8005	Ave		0.8522			0.1000	11.8		20.0			
1,1-Dichloroethene	+++++ 1.0291	1.0238 1.0759	0.7508 1.1240	0.9463	0.9919	Ave		0.9917			0.1000	12.2		20.0			
Acetone	+++++ 0.4303	0.5514 0.4406	0.4660 0.4296	0.4202	0.4206	Ave		0.4512			0.1000	10.4		20.0			
Iodomethane	+++++ 1.7765	1.5170 1.8429	1.3518 1.9054	1.4681	1.6569	Ave		1.6455				12.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372976

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2017 14:06 Calibration End Date: 08/19/2017 16:48 Calibration ID: 31180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	+++++ 3.2085	3.5632 3.2210	2.6543 3.4535	2.9457	3.0527	Ave		3.1570			0.1000	9.7		20.0			
Allyl chloride	1.8062 1.8947	2.1563 1.9785	1.6732 2.0003	1.7620	1.8185	Ave		1.8862				8.2		20.0			
Methyl acetate	1.2296 1.0754	1.1236 1.0801	0.8588 1.0411	0.9529	1.0526	Ave		1.0518			0.1000	10.5		20.0			
Methylene Chloride	+++++ 1.2000	1.5751 1.2195	1.0998 1.2449	1.1426	1.2095	Ave		1.2416			0.1000	12.5		20.0			
2-Methyl-2-propanol	0.1578 0.1816	0.1544 0.1891	0.1583 0.1909	0.1670	0.1815	Ave		0.1726				8.6		20.0			
Methyl tert-butyl ether	+++++ 3.7654	3.9901 3.7948	3.4154 3.7443	3.4429	3.6725	Ave		3.6893			0.1000	5.5		20.0			
trans-1,2-Dichloroethene	1.0234 1.1383	1.2209 1.2004	0.9300 1.1909	1.0325	1.1424	Ave		1.1099			0.1000	9.3		20.0			
Acrylonitrile	0.5223 0.5479	0.5430 0.5544	0.4821 0.5379	0.5093	0.5563	Ave		0.5317				4.8		20.0			
Hexane	+++++ 1.6664	1.9537 1.6939	1.2593 1.8082	1.5226	1.5913	Ave		1.6422				13.4		20.0			
1,1-Dichloroethane	2.1528 2.0783	2.4129 2.0868	1.8288 2.1122	1.8608	2.0819	Ave		2.0768			0.2000	8.7		20.0			
Vinyl acetate	2.4834 2.5396	2.5309 2.6808	2.1199 2.6510	2.1118	2.4508	Ave		2.4460				8.9		20.0			
2,2-Dichloropropane	+++++ 1.3517	1.3510 1.4130	1.0677 1.3948	1.2136	1.2754	Ave		1.2953				9.4		20.0			
cis-1,2-Dichloroethene	+++++ 1.3033	1.3742 1.3335	1.2158 1.3416	1.2007	1.3082	Ave		1.2967			0.1000	5.0		20.0			
2-Butanone (MEK)	+++++ 0.6857	0.6654 0.7027	0.5825 0.6915	0.6549	0.6717	Ave		0.6649			0.1000	6.0		20.0			
Chlorobromomethane	+++++ 0.6702	0.5874 0.6682	0.5922 0.6655	0.5896	0.6510	Ave		0.6320				6.3		20.0			
Tetrahydrofuran	+++++ 0.4504	0.4585 0.4616	0.3946 0.4590	0.4219	0.4585	Ave		0.4435				5.8		20.0			
Chloroform	+++++ 2.0778	2.1656 2.0768	1.8851 2.1129	1.8746	1.9710	Ave		2.0234			0.2000	5.6		20.0			
1,1,1-Trichloroethane	1.6938 1.6069	1.7968 1.6648	1.2848 1.7421	1.3947	1.5088	Ave		1.5866			0.1000	11.2		20.0			
Cyclohexane	+++++ 1.8297	2.0392 1.8448	1.6019 2.0640	1.5897	1.7279	Ave		1.8139			0.1000	10.5		20.0			
Carbon tetrachloride	1.4582 1.4266	1.2782 1.4471	1.1246 1.5848	1.1722	1.2788	Ave		1.3463			0.1000	11.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372976

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2017 14:06 Calibration End Date: 08/19/2017 16:48 Calibration ID: 31180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	1.6121 1.5300	1.6239 1.5557	1.1542 1.6188	1.3991	1.4715	Ave		1.4957				10.6		20.0			
Benzene	+++++ 4.7093	5.1357 4.7432	4.0086 4.7036	4.3226	4.6045	Ave		4.6039			0.5000	7.7		20.0			
Isobutyl alcohol	+++++ 0.0705	0.0651 0.0765	0.0521 0.0790	0.0572	0.0643	Ave		0.0664				14.7		20.0			
1,2-Dichloroethane	+++++ 1.7697	2.0888 1.8589	1.6200 1.8111	1.6599	1.7999	Ave		1.8012			0.1000	8.5		20.0			
n-Heptane	+++++ 1.8066	2.1767 1.7698	1.5189 1.8747	1.4817	1.5674	Ave		1.7423				14.0		20.0			
Trichloroethene	+++++ 1.2205	1.1294 1.2290	1.1078 1.2352	1.0869	1.1472	Ave		1.1652			0.2000	5.3		20.0			
Methylcyclohexane	+++++ 1.8955	2.1282 1.9079	1.5809 2.0956	1.7385	1.7927	Ave		1.8771			0.1000	10.3		20.0			
1,2-Dichloropropane	1.2076 1.1896	1.3099 1.2259	1.1194 1.2156	1.1180	1.2107	Ave		1.1996			0.1000	5.1		20.0			
Dibromomethane	0.7650 0.7407	0.8196 0.7847	0.6043 0.7658	0.7261	0.7485	Ave		0.7443			0.1000	8.5		20.0			
1,4-Dioxane	+++++ 0.0082	+++++ 0.0087	0.0054 0.0087	0.0075	0.0081	Lin1	-0.138	0.0088							1.0000		0.9900
Bromodichloromethane	1.4399 1.4687	1.5248 1.5285	1.1651 1.5738	1.3323	1.4045	Ave		1.4297			0.2000	9.2		20.0			
2-Chloroethyl vinyl ether	0.7633 0.9169	0.8518 0.9569	0.7251 0.9715	0.7202	0.8668	Ave		0.8466				11.9		20.0			
cis-1,3-Dichloropropene	1.7881 2.0023	1.7803 2.0245	1.5322 2.0690	1.7320	1.8540	Ave		1.8478			0.2000	9.7		20.0			
4-Methyl-2-pentanone (MIBK)	0.6810 0.7065	0.6669 0.6971	0.5793 0.6560	0.6503	0.6850	Ave		0.6653			0.1000	6.0		20.0			
Toluene	+++++ 1.4774	1.7209 1.5354	1.2489 1.5279	1.4082	1.3989	Ave		1.4739			0.4000	9.9		20.0			
trans-1,3-Dichloropropene	0.7019 0.8932	0.7695 0.9458	0.6489 0.9679	0.7606	0.8433	Ave		0.8164			0.1000	14.1		20.0			
Ethyl methacrylate	0.7377 0.7959	0.6687 0.8499	0.5898 0.8675	0.7292	0.7764	Ave		0.7519				12.3		20.0			
1,1,2-Trichloroethane	+++++ 0.4368	0.4745 0.4629	0.3696 0.4615	0.3997	0.4291	Ave		0.4334			0.1000	8.7		20.0			
Tetrachloroethene	0.6861 0.6408	0.6131 0.6715	0.5165 0.6984	0.5810	0.6258	Ave		0.6292			0.2000	9.5		20.0			
1,3-Dichloropropane	0.9668 0.9392	0.9884 0.9950	0.7536 0.9871	0.9211	0.9331	Ave		0.9355				8.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372976

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2017 14:06 Calibration End Date: 08/19/2017 16:48 Calibration ID: 31180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.4627 0.5025	0.4298 0.5068	0.4098 0.4931	0.4759	0.5030	Ave		0.4729			0.1000	7.7		20.0			
Dibromochloromethane	0.5098 0.5415	0.4752 0.5883	0.3883 0.6216	0.4271	0.4805	Ave		0.5040			0.1000	15.6		20.0			
1,2-Dibromoethane	0.5699 0.5636	0.5231 0.5936	0.4774 0.5969	0.5286	0.5549	Ave		0.5510				7.2		20.0			
Chlorobenzene	1.7790 1.6966	1.7751 1.7326	1.4336 1.7193	1.5874	1.6535	Ave		1.6721			0.5000	6.9		20.0			
Ethylbenzene	+++++ 2.7642	2.8875 2.8026	2.3049 2.7433	2.5623	2.6380	Ave		2.6718			0.1000	7.2		20.0			
1,1,1,2-Tetrachloroethane	0.5979 0.5687	0.5672 0.5956	0.4429 0.6122	0.4973	0.5218	Ave		0.5504				10.6		20.0			
m,p-Xylene	1.1483 1.1345	1.2264 1.1572	0.9484 1.1819	1.0349	1.0762	Ave		1.1135			0.1000	8.0		20.0			
o-Xylene	1.1407 1.0913	1.0377 1.1223	0.8985 1.1336	1.0048	1.0927	Ave		1.0652			0.3000	7.7		20.0			
Styrene	1.8488 1.8750	1.7970 1.9266	1.5618 1.9379	1.6785	1.8072	Ave		1.8041			0.3000	7.1		20.0			
Bromoform	0.2800 0.3392	0.3169 0.3861	0.2516 0.4139	0.2734	0.2917	Ave		0.3191			0.1000	17.9		20.0			
Isopropylbenzene	2.9849 2.8547	3.0915 2.8175	2.3408 2.8035	2.6611	2.7252	Ave		2.7849			0.1000	8.1		20.0			
Bromobenzene	+++++ 0.7679	0.7421 0.7731	0.6769 0.7819	0.7250	0.7481	Ave		0.7450				4.8		20.0			
1,1,2,2-Tetrachloroethane	0.7311 0.7345	0.7634 0.7269	0.6601 0.7343	0.6637	0.7205	Ave		0.7168			0.3000	5.0		20.0			
1,2,3-Trichloropropane	0.2434 0.2560	0.2760 0.2520	0.2112 0.2544	0.2320	0.2569	Ave		0.2477				7.8		20.0			
N-Propylbenzene	3.3968 3.2799	3.4908 3.1943	2.6448 3.0891	3.0296	3.0863	Ave		3.1514				8.3		20.0			
trans-1,4-Dichloro-2-butene	0.1836 0.2340	0.1579 0.2477	0.1518 +++++	0.1750	0.1984	Ave		0.1926				19.0		20.0			
2-Chlorotoluene	+++++ 0.6907	0.7269 0.6817	0.5861 0.6932	0.6408	0.6578	Ave		0.6682				6.8		20.0			
1,3,5-Trimethylbenzene	+++++ 2.4427	2.4154 2.3775	2.1397 2.3706	2.2249	2.2848	Ave		2.3222				4.7		20.0			
4-Chlorotoluene	0.6839 0.7145	0.7456 0.7178	0.6075 0.7355	0.6720	0.7038	Ave		0.6976				6.3		20.0			
tert-Butylbenzene	0.5212 0.5794	0.5973 0.5539	0.5009 0.5780	0.4878	0.5135	Ave		0.5415				7.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372976

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2017 14:06 Calibration End Date: 08/19/2017 16:48 Calibration ID: 31180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	+++++ 2.5046	2.5111 2.4926	2.0037 2.4302	2.2291	2.3945	Ave		2.3665				7.9		20.0			
sec-Butylbenzene	+++++ 3.0386	3.1280 3.0196	2.4693 2.9602	2.7447	2.8492	Ave		2.8871				7.7		20.0			
1,3-Dichlorobenzene	1.4007 1.4692	1.5025 1.4380	1.2577 1.4492	1.3930	1.3777	Ave		1.4110			0.6000	5.3		20.0			
4-Isopropyltoluene	+++++ 2.6440	2.6462 2.6303	2.2390 2.5644	2.3424	2.4464	Ave		2.5018				6.5		20.0			
1,4-Dichlorobenzene	1.5198 1.4928	1.6224 1.4764	1.2721 1.4785	1.3839	1.4080	Ave		1.4567			0.5000	7.1		20.0			
n-Butylbenzene	2.2161 2.3213	2.2655 2.3024	1.7540 2.2902	2.0102	2.1035	Ave		2.1579				9.1		20.0			
1,2-Dichlorobenzene	+++++ 1.4222	1.4078 1.3874	1.2668 1.4142	1.2983	1.3537	Ave		1.3643			0.4000	4.5		20.0			
1,2-Dibromo-3-Chloropropane	0.1386 0.1453	0.1149 0.1477	0.1010 0.1612	0.1179	0.1214	Ave		0.1310			0.0500	15.5		20.0			
1,2,4-Trichlorobenzene	0.9870 0.9834	1.0171 1.0109	0.7738 1.0598	0.8459	0.9207	Ave		0.9498			0.2000	10.2		20.0			
Hexachlorobutadiene	0.4561 0.4465	0.4450 0.4756	0.3605 0.4983	0.3613	0.3906	Ave		0.4292				12.1		20.0			
Naphthalene	2.2567 2.6099	2.3563 2.6942	2.0894 2.6961	2.3205	2.4529	Ave		2.4345				9.0		20.0			
1,2,3-Trichlorobenzene	0.7971 0.9169	0.8491 0.9521	0.7694 0.9950	0.8183	0.8691	Ave		0.8709				9.0		20.0			
Dibromofluoromethane (Surr)	1.2094 1.1835	1.1895 1.2039	1.1820 1.2103	1.1610	1.1840	Ave		1.1904				1.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8202 0.8015	0.7947 0.7950	0.8062 0.7815	0.7836	0.7943	Ave		0.7971				1.6		20.0			
Toluene-d8 (Surr)	2.4120 2.4031	2.4059 2.4141	2.3954 2.4202	2.4331	2.3886	Ave		2.4090				0.6		20.0			
4-Bromofluorobenzene (Surr)	0.7964 0.7828	0.7678 0.8025	0.7802 0.8019	0.7816	0.7912	Ave		0.7881				1.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372976

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2017 14:06 Calibration End Date: 08/19/2017 16:48 Calibration ID: 31180

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-372976/8	S1027.D
Level 2	IC 480-372976/9	S1028.D
Level 3	IC 480-372976/10	S1029.D
Level 4	IC 480-372976/11	S1030.D
Level 5	IC 480-372976/12	S1031.D
Level 6	ICIS 480-372976/13	S1032.D
Level 7	IC 480-372976/14	S1033.D
Level 8	IC 480-372976/15	S1034.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	3968 214314	9417 409975	15363 918653	36302	76768	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	+++++ 255943	13503 511618	22536 1037116	48187	96965	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	4842 245259	11388 475142	19004 1009030	43236	88185	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	6036 212660	11554 442640	18561 925917	38437	78764	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	+++++ 156966	7882 307922	15397 630988	30300	62815	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Lin1	5463 153013	9694 306375	13350 616195	31253	64243	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	8061 343165	19426 685951	31826 1436599	66881	141779	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	+++++ 314229	14197 593971	22227 1326154	53573	113181	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	+++++ 210047	9107 434005	13291 866862	37842	81787	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	+++++ 183633	8141 383689	14462 771288	33674	73586	+++++ 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 158547	6411 322976	9705 753469	30697	58070	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	+++++ 188938	7327 397113	10746 838247	34500	71952	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	+++++ 394974	19731 813085	33351 1602148	76597	152548	+++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	+++++ 326152	10857 680167	19349 1421052	53524	120191	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	+++++ 589036	25501 1188831	37992 2575640	107394	221443	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372976

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2017 14:06 Calibration End Date: 08/19/2017 16:48 Calibration ID: 31180

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	6493 347847	15432 730236	23950 1491800	64240	131912	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	22100 987144	40208 1993164	61466 3882239	173703	381772	2.50 125	5.00 250	10.0 500	25.0	50.0
Methylene Chloride	FB	Ave	+++++ 220297	11273 450097	15742 928428	41656	87735	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	5672 333317	11049 697751	22664 1424020	60869	131668	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	+++++ 691280	28556 1400575	48887 2792501	125521	266404	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3679 208971	8738 443050	13312 888174	37642	82872	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	18774 1005897	38863 2046368	69000 4012018	185692	403555	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	+++++ 305935	13982 625175	18025 1348566	55511	115430	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	7739 381544	17269 770190	26176 1575302	67840	151017	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	17855 932479	36226 1978883	60686 3954187	153980	355564	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	+++++ 248156	9669 521525	15283 1040213	44245	92518	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 239263	9835 492162	17402 1000603	43774	94893	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	+++++ 629460	23812 1296803	41690 2578577	119385	243633	+++++ 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	+++++ 123043	4204 246620	8477 496331	21494	47222	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 165373	6563 340747	11297 684646	30766	66514	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	+++++ 381464	15499 766504	26982 1575842	68343	142976	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	6089 295013	12859 614465	18390 1299251	50848	109450	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	+++++ 335917	14594 680876	22929 1539359	57958	125342	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	5242 261899	9148 534103	16097 1181977	42734	92762	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	5795 280893	11622 574188	16521 1207304	51007	106745	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	+++++ 864565	36755 1750622	57378 3507985	157591	334010	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372976

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2017 14:06 Calibration End Date: 08/19/2017 16:48 Calibration ID: 31180

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	+++++ 323559	11653 706146	18648 1473331	52159	116545	+++++ 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	+++++ 324895	14949 686088	23188 1350759	60516	130562	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	+++++ 331676	15578 653216	21741 1398166	54020	113695	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	+++++ 224076	8083 453601	15857 921204	39627	83221	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	+++++ 347998	15231 704181	22629 1562932	63380	130042	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	4341 218404	9375 452465	16022 906605	40761	87821	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2750 135981	5866 289628	8650 571135	26473	54293	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Lin1	+++++ 62288	+++++ 131441	3177 265412	11082	24668	+++++ 500	+++++ 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	5176 269644	10913 564160	16677 1173778	48571	101882	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	2744 168328	6096 353183	10379 724530	26257	62879	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	6428 367601	12741 747223	21932 1543066	63146	134490	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	25254 1342356	49060 2633567	85951 4986458	239921	518872	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	+++++ 561432	25320 1160098	37060 2322615	103918	211920	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5206 339434	11322 714649	19255 1471381	56129	127747	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	5472 302438	9839 642180	17502 1318690	53812	117620	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 165974	6981 349762	10967 701614	29497	65001	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5089 243504	9021 507406	15326 1061698	42876	94807	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	7171 356902	14543 751784	22364 1500581	67973	141351	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	17159 954805	31616 1914804	60799 3747677	175579	380990	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	3781 205775	6992 444525	11523 944947	31514	72797	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	4227 214166	7697 448481	14168 907398	39006	84061	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372976

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2017 14:06 Calibration End Date: 08/19/2017 16:48 Calibration ID: 31180

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	13195 644733	26118 1309104	42541 2613601	117135	250496	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	+++++ 1050435	42485 2117576	68398 4170255	189077	399626	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4435 216122	8345 449997	13143 930603	36695	79045	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	8517 431140	18044 874384	28144 1796699	76367	163036	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	8461 414717	15268 847990	26663 1723267	74145	165530	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	13713 712528	26440 1455682	46346 2945881	123859	273769	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2077 128898	4663 291730	7466 629172	20175	44195	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	21683 1061821	43924 2166985	67091 4279167	191056	405592	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	+++++ 285619	10544 594571	19400 1193495	52052	111343	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	5311 273204	10847 559037	18920 1120811	47649	107234	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1768 95238	3922 193805	6053 388261	16659	38236	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	24675 1219958	49597 2456808	75802 4715012	217518	459334	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1334 87042	2244 190484	4350 +++++	12564	29533	0.500 25.0	1.00 50.0	2.00 +++++	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 256920	10328 524271	16797 1058006	46004	97898	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 908559	34319 1828548	61325 3618407	159741	340050	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	4968 265757	10594 552092	17412 1122590	48251	104742	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	3786 215512	8486 426036	14355 882216	35026	76423	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 931581	35678 1917112	57428 3709347	160043	356366	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 1130219	44443 2322403	70772 4518298	197064	424051	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	10175 546452	21347 1105989	36046 2212060	100015	205045	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 983436	37598 2022986	64173 3914137	168177	364102	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372976

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2017 14:06 Calibration End Date: 08/19/2017 16:48 Calibration ID: 31180

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	11040 555266	23051 1135484	36459 2256795	99357	209551	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	16098 863418	32188 1770815	50272 3495610	144326	313069	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 528994	20002 1067053	36309 2158575	93216	201464	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1007 54026	1632 113607	2895 246079	8462	18065	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	7170 365772	14451 777520	22177 1617644	60731	137025	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	3313 166076	6322 365765	10332 760586	25941	58129	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	16393 970738	33479 2072109	59884 4115266	166604	365061	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5790 341042	12064 732255	22052 1518675	58753	129345	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	217375 217277	212829 222164	211486 225656	211641	214712	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	147417 147154	142190 146713	144247 145711	142839	144047	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	894512 913212	884967 912014	888524 919765	897712	904609	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	295358 297465	282437 303163	289398 304759	288388	299666	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D
Lims ID: IC 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 19-Aug-2017 14:06:30 ALS Bottle#: 68 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.5
Misc. Info.: 480-0064982-008
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Aug-2017 13:38:57 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: archern Date: 20-Aug-2017 09:33:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.552	-0.006	98	179740	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	85	370864	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	93	363213	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	72	217375	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	147417	25.0	25.7	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	93	894512	25.0	25.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	91	295358	25.0	25.3	
10 Dichlorodifluoromethane	85	1.294	1.300	-0.006	28	3968	0.5000	0.4875	M
12 Chloromethane	50	1.495	1.507	-0.012	38	7885	0.5000	0.7460	
13 Vinyl chloride	62	1.586	1.580	0.006	25	4842	0.5000	0.5062	
151 Butadiene	54	1.604	1.604	0.000	43	6036	0.5000	0.6502	
14 Bromomethane	94	1.921	1.914	0.006	22	5046	0.5000	0.7665	
15 Chloroethane	64	2.000	2.018	-0.018	33	5463	0.5000	0.4644	
16 Dichlorofluoromethane	67	2.225	2.231	-0.006	20	8061	0.5000	0.5396	
17 Trichlorofluoromethane	101	2.243	2.231	0.012	32	5127	0.5000	0.4279	
18 Ethyl ether	59	2.529	2.529	0.000	79	5093	0.5000	0.6318	
20 Acrolein	56	2.705	2.705	0.000	36	4840	2.50	3.29	
21 1,1,2-Trichloro-1,2,2-trif	101	2.778	2.760	0.018	1	1667	0.5000	0.2721	M
22 1,1-Dichloroethene	96	2.760	2.772	-0.012	24	3183	0.5000	0.4464	M
23 Acetone	43	2.870	2.869	0.001	79	11519	2.50	3.55	M
25 Iodomethane	142	2.918	2.936	-0.018	16	4377	0.5000	0.3700	
26 Carbon disulfide	76	2.973	2.967	0.006	86	13169	0.5000	0.5802	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	74	6493	0.5000	0.4788	M
27 Methyl acetate	43	3.186	3.174	0.012	90	22100	2.50	2.92	
30 Methylene Chloride	84	3.314	3.295	0.019	26	6023	0.5000	0.6747	M
31 2-Methyl-2-propanol	59	3.460	3.441	0.019	44	5672	5.00	4.57	
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	76	14479	0.5000	0.5459	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	51	3679	0.5000	0.4611	
33 Acrylonitrile	53	3.557	3.551	0.006	89	18774	5.00	4.91	
35 Hexane	57	3.715	3.715	0.000	73	7644	0.5000	0.6474	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.934	3.928	0.006	23	7739	0.5000	0.5183	
37 Vinyl acetate	43	4.001	3.989	0.012	95	17855	1.00	1.02	
44 2,2-Dichloropropane	77	4.457	4.457	0.000	49	5402	0.5000	0.5801	
45 cis-1,2-Dichloroethene	96	4.494	4.488	0.006	26	5171	0.5000	0.5546	
43 2-Butanone (MEK)	43	4.555	4.524	0.031	67	13271	2.50	2.78	
48 Chlorobromomethane	128	4.725	4.725	0.000	54	2486	0.5000	0.5471	
49 Tetrahydrofuran	42	4.780	4.755	0.025	50	2751	1.00	0.8627	
50 Chloroform	83	4.804	4.804	0.000	52	8340	0.5000	0.5733	
51 1,1,1-Trichloroethane	97	4.926	4.926	0.000	37	6089	0.5000	0.5338	
52 Cyclohexane	56	4.938	4.932	0.006	13	8249	0.5000	0.6325	
55 Carbon tetrachloride	117	5.066	5.066	0.000	61	5242	0.5000	0.5416	
54 1,1-Dichloropropene	75	5.078	5.078	0.000	44	5795	0.5000	0.5389	
57 Benzene	78	5.279	5.279	0.000	38	18441	0.5000	0.5571	
53 Isobutyl alcohol	43	5.297	5.285	0.012	43	6132	12.5	12.8	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	36	8263	0.5000	0.6381	
59 n-Heptane	43	5.473	5.467	0.006	85	9326	0.5000	0.7445	M
62 Trichloroethene	95	5.887	5.893	-0.006	56	4683	0.5000	0.5590	
64 Methylcyclohexane	83	6.015	6.021	-0.006	55	8369	0.5000	0.6201	
65 1,2-Dichloropropane	63	6.130	6.130	0.000	42	4341	0.5000	0.5033	
67 Dibromomethane	93	6.270	6.270	0.000	67	2750	0.5000	0.5139	
66 1,4-Dioxane	88		6.282				ND	ND	
68 Dichlorobromomethane	83	6.422	6.416	0.006	38	5176	0.5000	0.5035	
69 2-Chloroethyl vinyl ether	63	6.702	6.696	0.006	23	2744	0.5000	0.4508	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	45	6428	0.5000	0.4839	
73 4-Methyl-2-pentanone (MIBK	43	6.994	6.982	0.012	85	25254	2.50	2.56	
74 Toluene	92	7.128	7.134	-0.006	67	12360	0.5000	0.5653	
77 trans-1,3-Dichloropropene	75	7.414	7.402	0.012	52	5206	0.5000	0.4299	
75 Ethyl methacrylate	69	7.457	7.450	0.007	10	5472	0.5000	0.4906	
79 1,1,2-Trichloroethane	83	7.596	7.596	0.000	36	3651	0.5000	0.5678	
81 Tetrachloroethene	166	7.663	7.669	-0.006	60	5089	0.5000	0.5453	
82 1,3-Dichloropropane	76	7.761	7.755	0.006	67	7171	0.5000	0.5167	
80 2-Hexanone	43	7.834	7.821	0.013	86	17159	2.50	2.45	
83 Chlorodibromomethane	129	7.992	7.992	0.000	25	3781	0.5000	0.5057	
84 Ethylene Dibromide	107	8.101	8.101	0.000	42	4227	0.5000	0.5171	
87 Chlorobenzene	112	8.582	8.582	0.000	1	13195	0.5000	0.5319	
88 Ethylbenzene	91	8.679	8.673	0.006	23	22957	0.5000	0.5792	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.679	-0.006	9	4435	0.5000	0.5431	
90 m-Xylene & p-Xylene	106	8.801	8.795	0.006	0	8517	0.5000	0.5156	
91 o-Xylene	106	9.221	9.221	0.000	64	8461	0.5000	0.5354	
92 Styrene	104	9.251	9.251	0.000	41	13713	0.5000	0.5124	
95 Bromoform	173	9.488	9.494	-0.006	7	2077	0.5000	0.4388	
94 Isopropylbenzene	105	9.604	9.604	0.000	65	21683	0.5000	0.5359	
101 Bromobenzene	156	9.945	9.945	0.000	64	5850	0.5000	0.5405	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	24	5311	0.5000	0.5100	
99 N-Propylbenzene	91	10.024	10.024	0.000	88	24675	0.5000	0.5389	
100 1,2,3-Trichloropropane	110	10.024	10.024	0.000	17	1768	0.5000	0.4912	
98 trans-1,4-Dichloro-2-buten	53	10.042	10.036	0.006	1	1334	0.5000	0.4766	
103 2-Chlorotoluene	126	10.127	10.127	0.000	75	5271	0.5000	0.5430	
102 1,3,5-Trimethylbenzene	105	10.206	10.200	0.006	68	19666	0.5000	0.5829	
105 4-Chlorotoluene	126	10.243	10.237	0.006	54	4968	0.5000	0.4902	
106 tert-Butylbenzene	134	10.523	10.516	0.007	54	3786	0.5000	0.4812	
107 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	11	20098	0.5000	0.5845	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	66	23334	0.5000	0.5563	
111 1,3-Dichlorobenzene	146	10.863	10.857	0.006	37	10175	0.5000	0.4963	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	78	20201	0.5000	0.5558	
113 1,4-Dichlorobenzene	146	10.942	10.948	-0.006	3	11040	0.5000	0.5216	
115 n-Butylbenzene	91	11.247	11.247	0.000	72	16098	0.5000	0.5135	
116 1,2-Dichlorobenzene	146	11.301	11.295	0.006	49	11168	0.5000	0.5634	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	1	1007	0.5000	0.5291	M
119 1,2,4-Trichlorobenzene	180	12.695	12.694	0.000	38	7170	0.5000	0.5196	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	18	3313	0.5000	0.5313	
121 Naphthalene	128	12.914	12.907	0.007	58	16393	0.5000	0.4635	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	48	5790	0.5000	0.4576	
S 126 1,3-Dichloropropene, Total	1				0			0.9137	
S 125 1,2-Dichloroethene, Total	1				0			1.02	
S 124 Xylenes, Total	1				0			1.05	
S 123 Total BTEX	1				0			2.75	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00106	Amount Added:	0.50	Units: uL	
GAS CORP mix_00237	Amount Added:	0.50	Units: uL	
S_8260_IS_00257	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00209	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 20-Aug-2017 13:38:59 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D

Injection Date:	19-Aug-2017 14:06:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 0.5			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	68
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

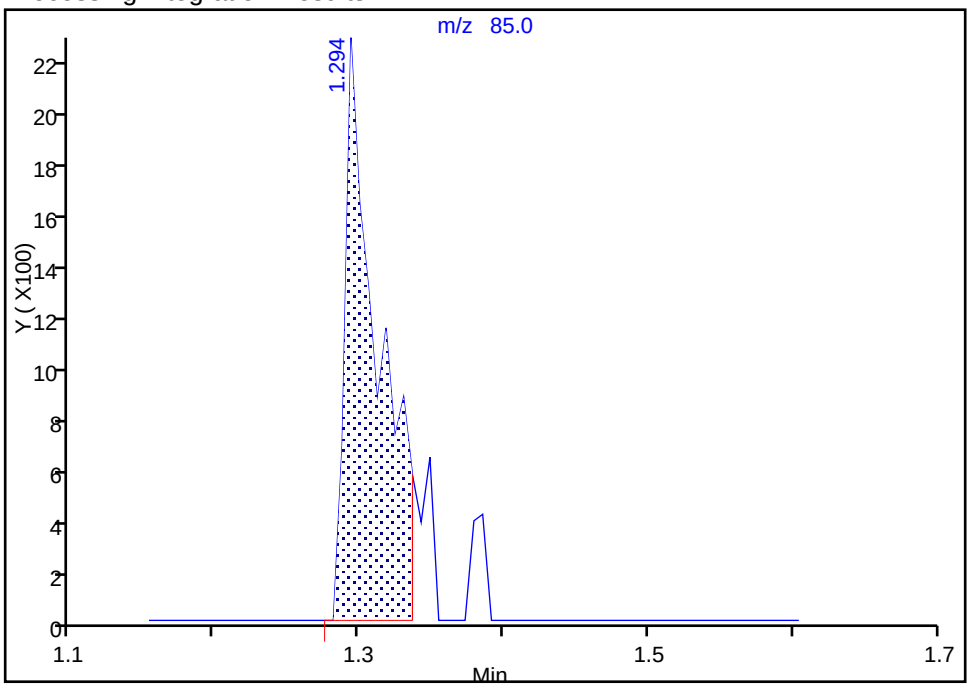
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D
Injection Date: 19-Aug-2017 14:06:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 68 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

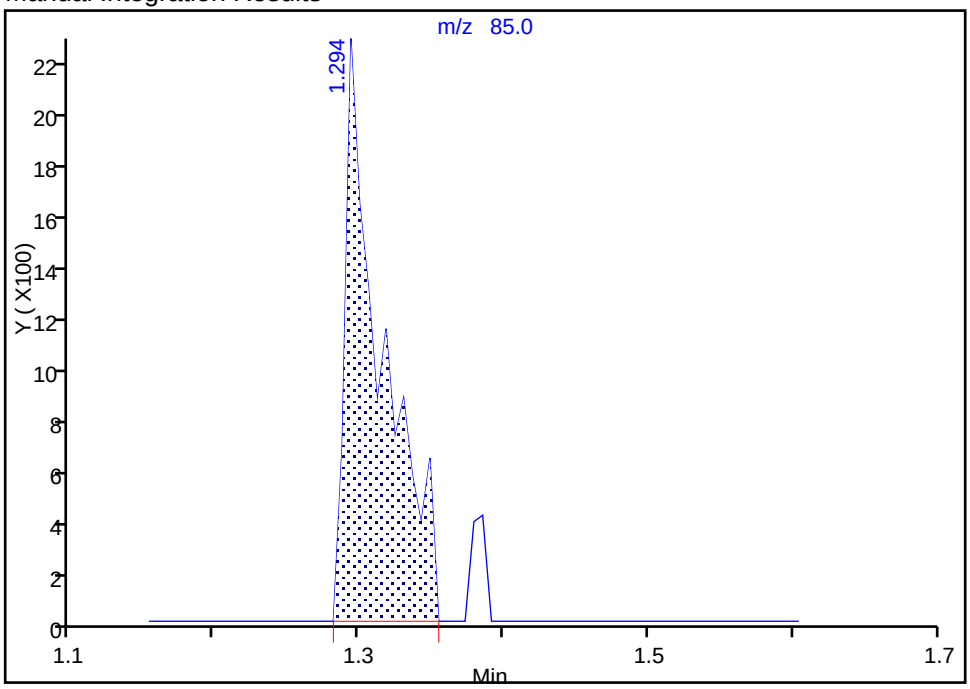
Processing Integration Results

RT: 1.29
Area: 3602
Amount: 0.470698
Amount Units: ug/L



Manual Integration Results

RT: 1.29
Area: 3968
Amount: 0.487504
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:11:52
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

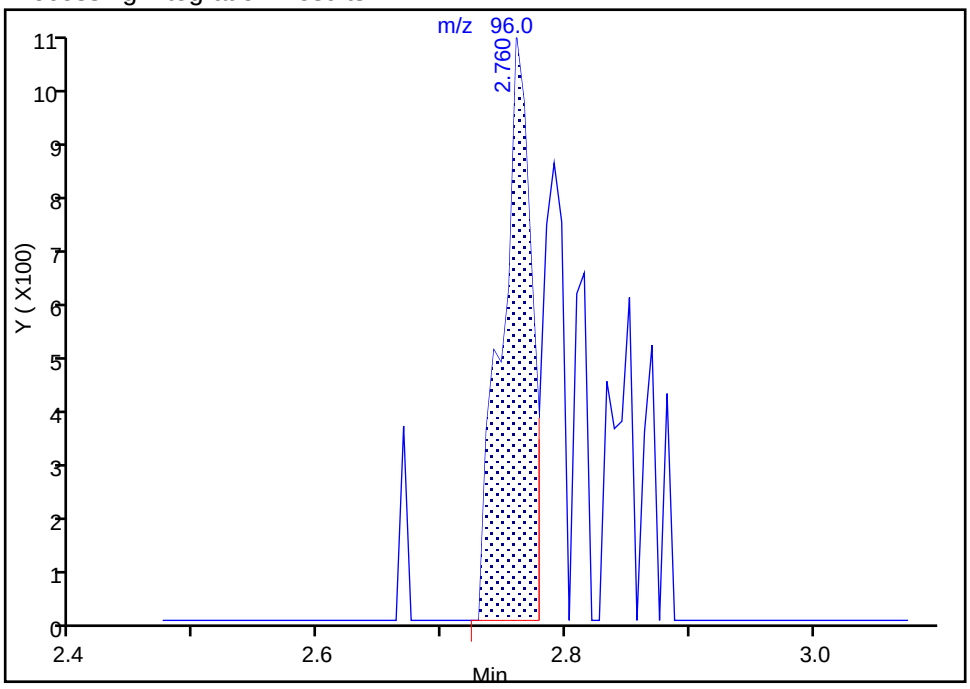
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D
Injection Date: 19-Aug-2017 14:06:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 68 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

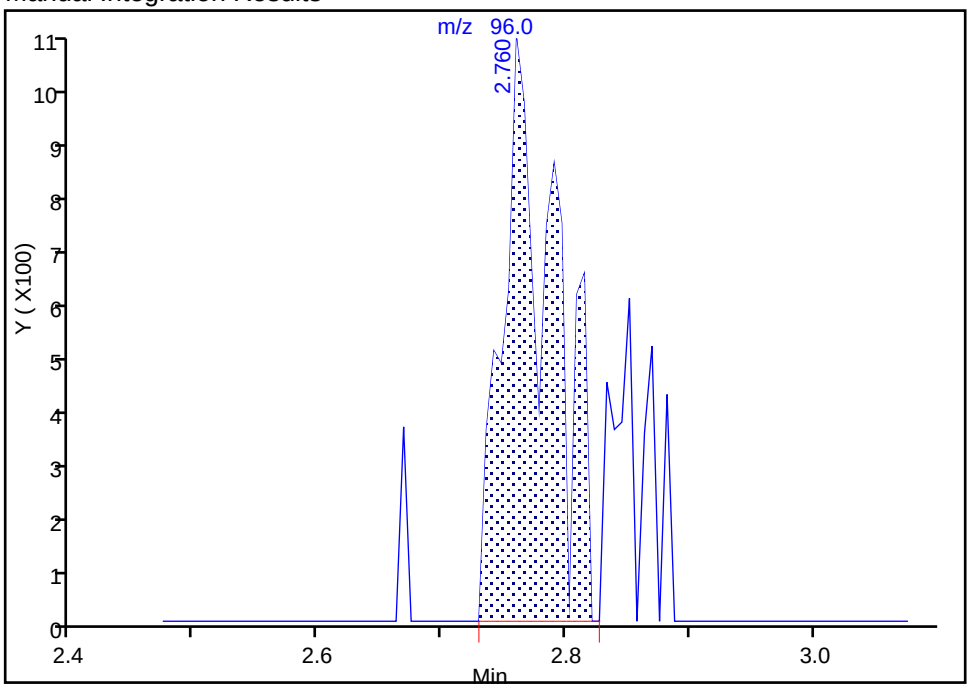
Processing Integration Results

RT: 2.76
Area: 1860
Amount: 0.544499
Amount Units: ug/L



Manual Integration Results

RT: 2.76
Area: 3183
Amount: 0.446436
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:15:39
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

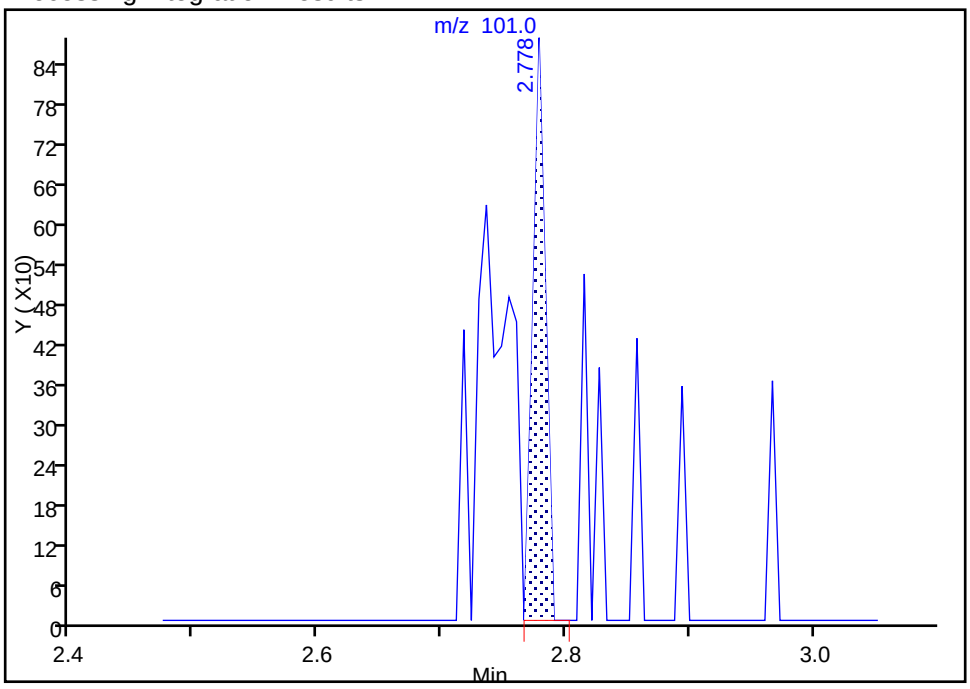
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D
Injection Date: 19-Aug-2017 14:06:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 68 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

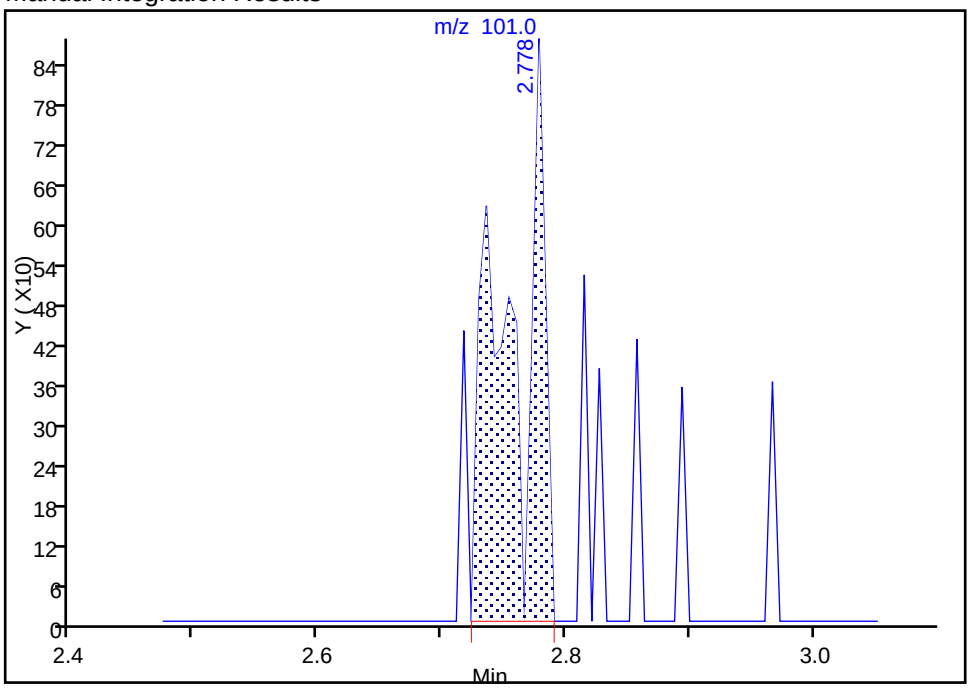
Processing Integration Results

RT: 2.78
Area: 624
Amount: 0.154606
Amount Units: ug/L



Manual Integration Results

RT: 2.78
Area: 1667
Amount: 0.272080
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:14:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

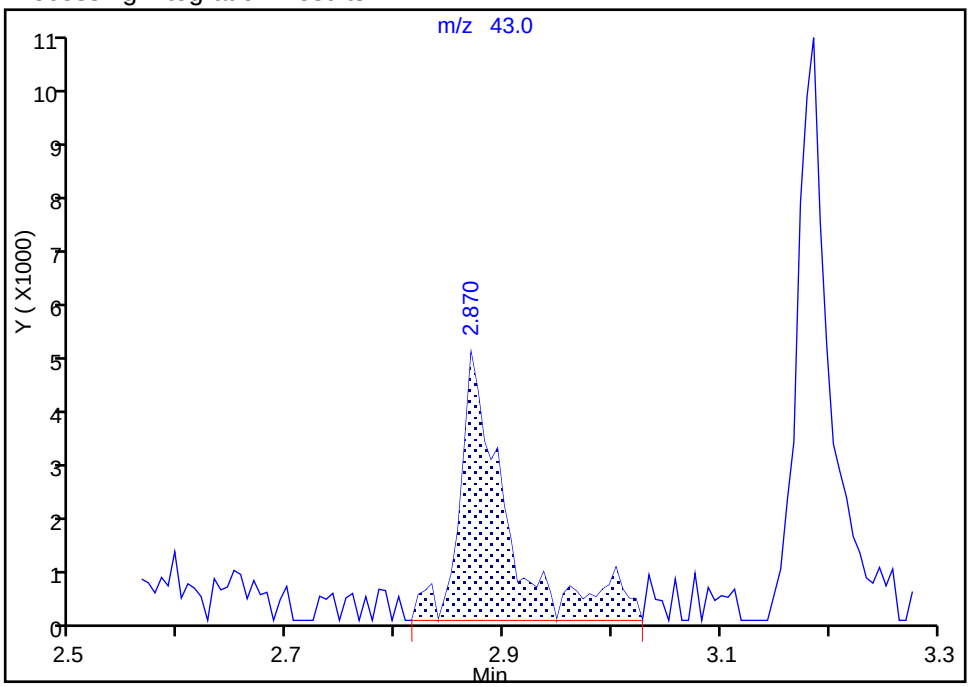
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D
Injection Date: 19-Aug-2017 14:06:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 68 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

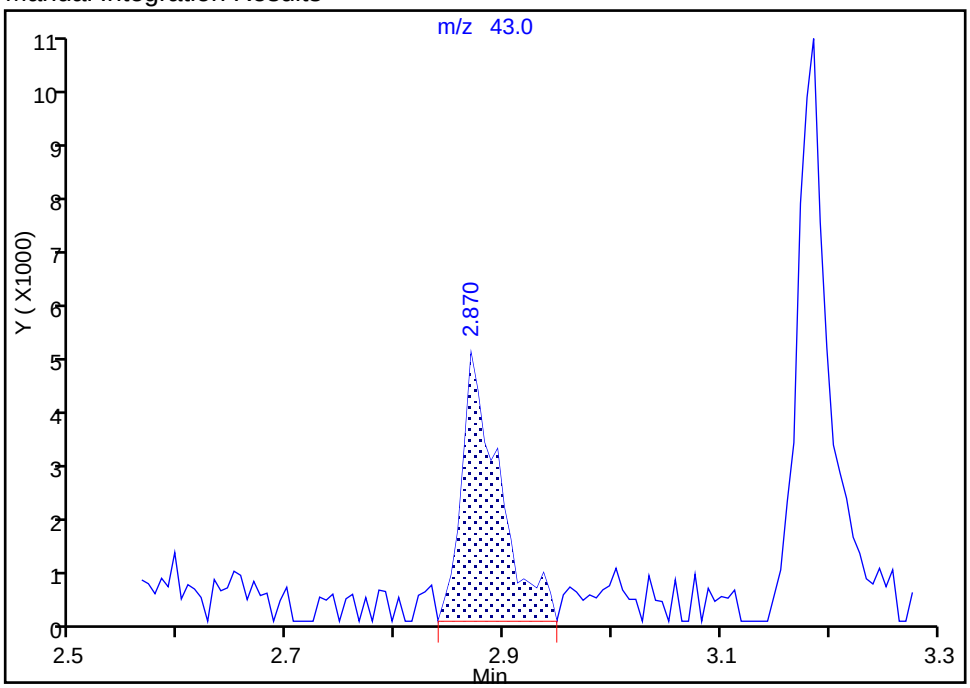
Processing Integration Results

RT: 2.87
Area: 14431
Amount: 3.026783
Amount Units: ug/L



Manual Integration Results

RT: 2.87
Area: 11519
Amount: 3.550571
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:16:02
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

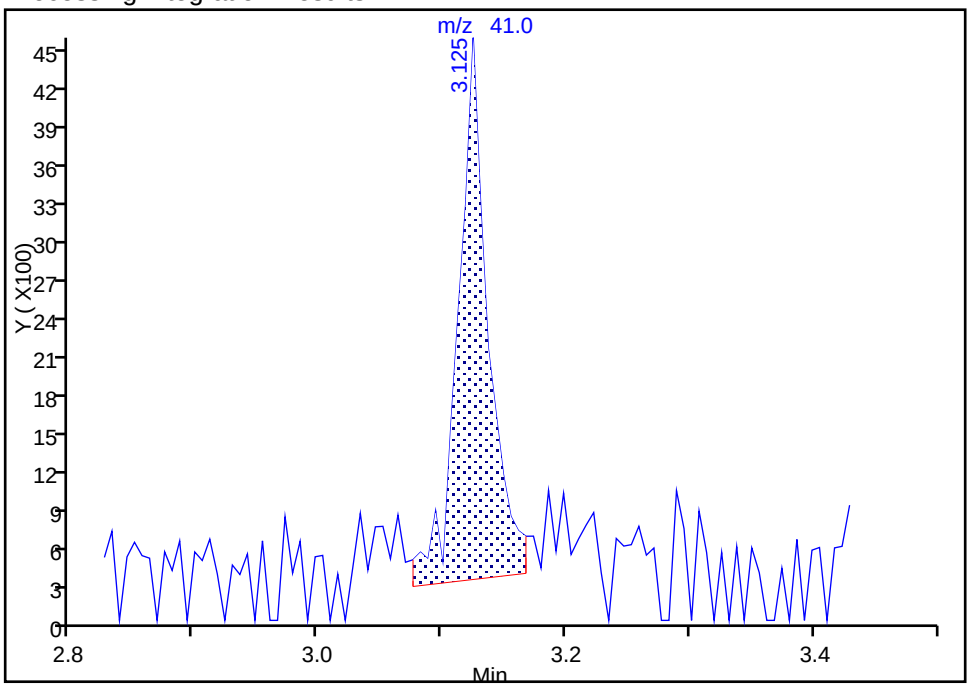
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D
Injection Date: 19-Aug-2017 14:06:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 68 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

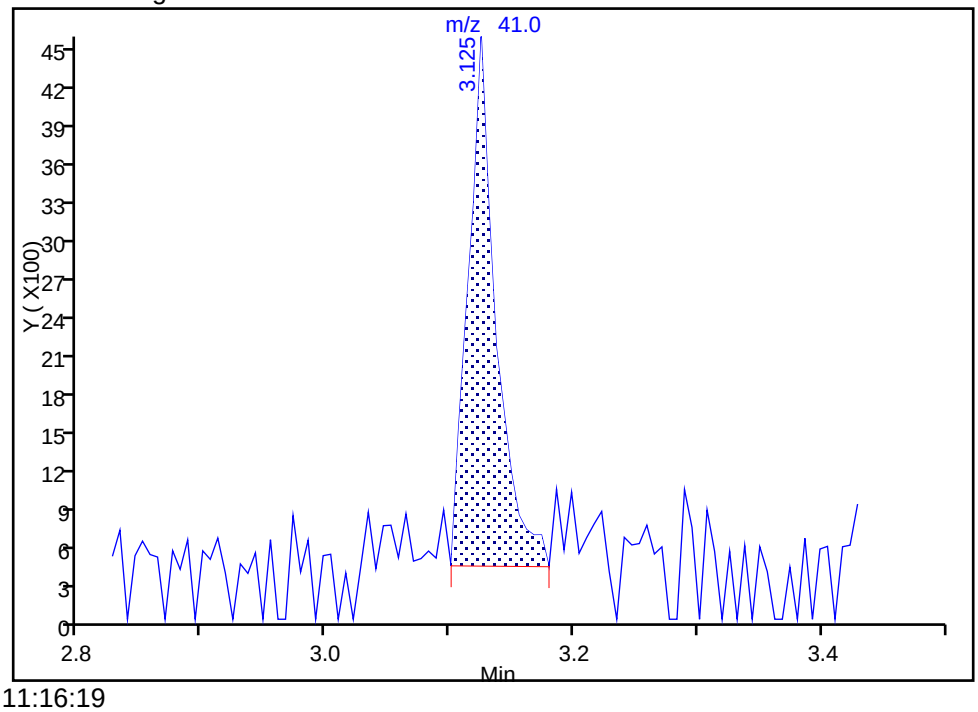
Processing Integration Results

RT: 3.13
Area: 7229
Amount: 0.539197
Amount Units: ug/L



Manual Integration Results

RT: 3.13
Area: 6493
Amount: 0.478794
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:16:19
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

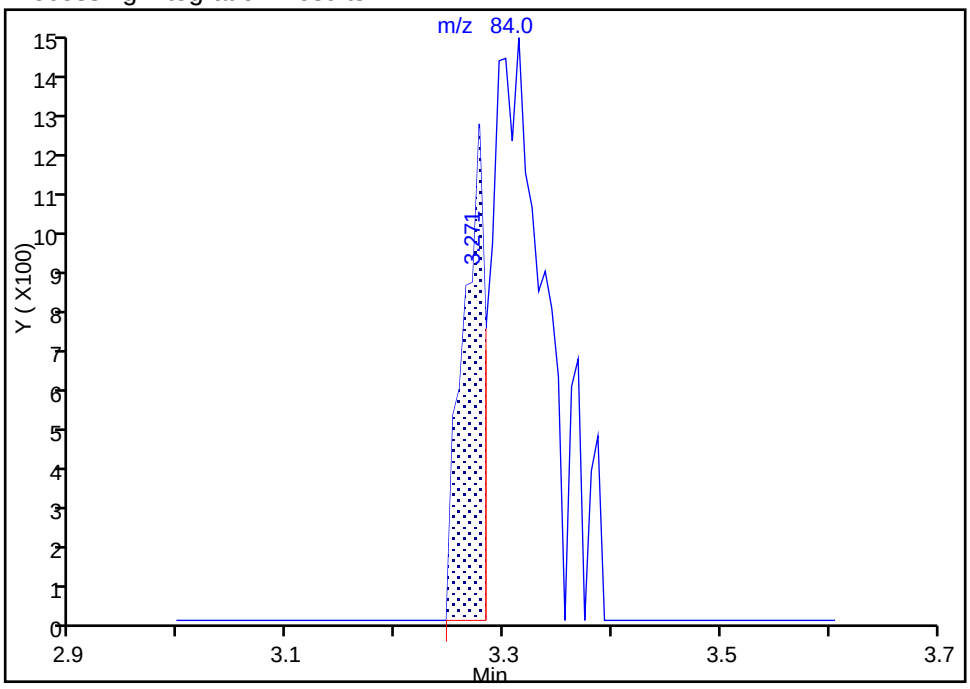
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D
Injection Date: 19-Aug-2017 14:06:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 68 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

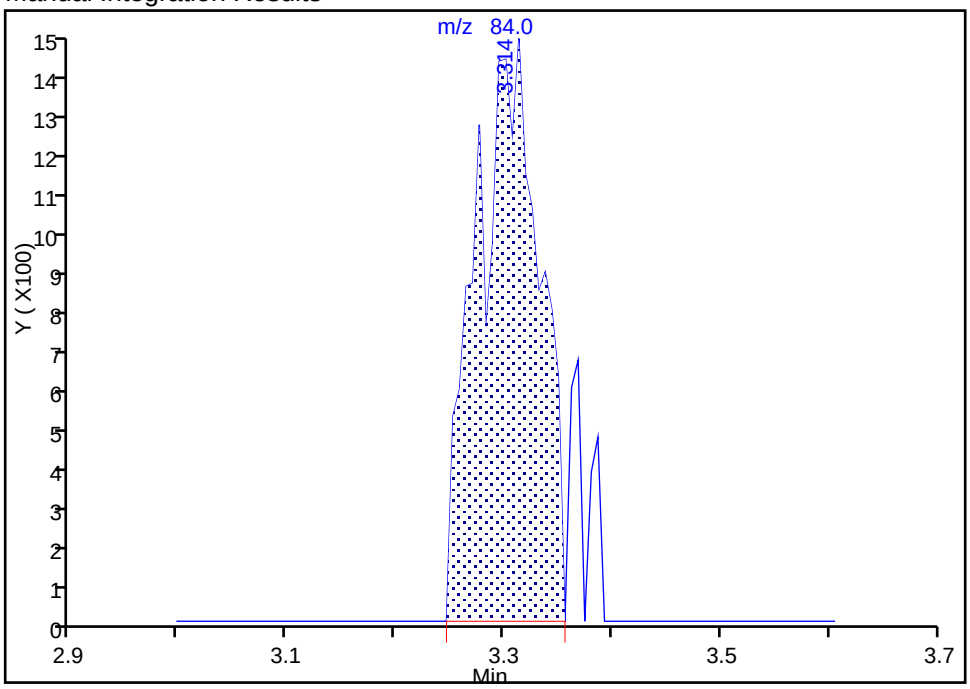
Processing Integration Results

RT: 3.27
Area: 1745
Amount: 0.241905
Amount Units: ug/L



Manual Integration Results

RT: 3.31
Area: 6023
Amount: 0.674714
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:16:26
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

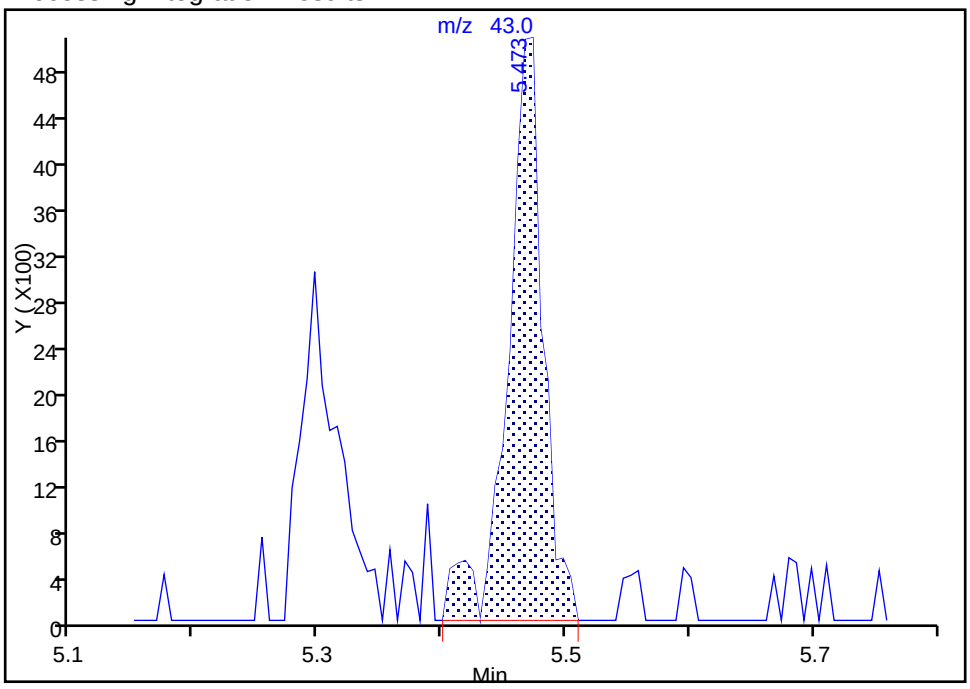
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D
Injection Date: 19-Aug-2017 14:06:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 68 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

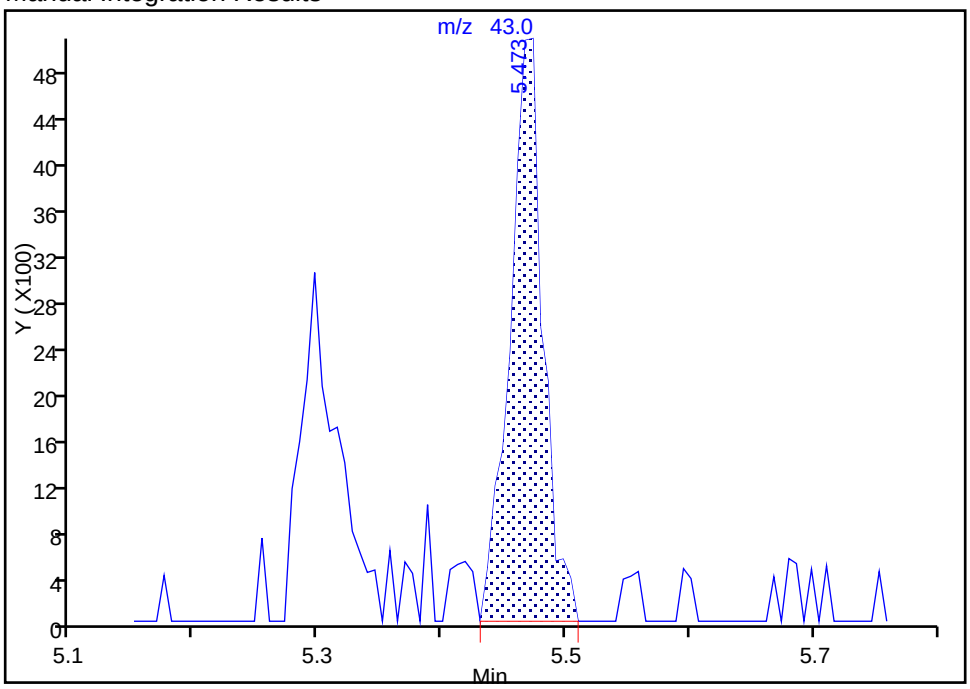
Processing Integration Results

RT: 5.47
Area: 10015
Amount: 0.743828
Amount Units: ug/L



Manual Integration Results

RT: 5.47
Area: 9326
Amount: 0.744522
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:16:55
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

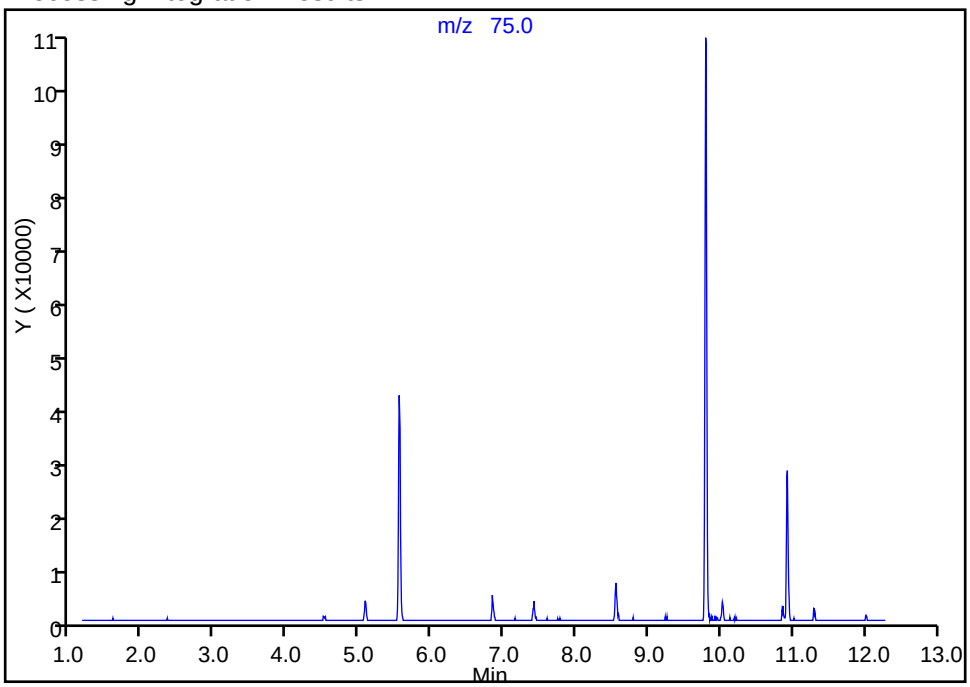
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D
Injection Date: 19-Aug-2017 14:06:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 68 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

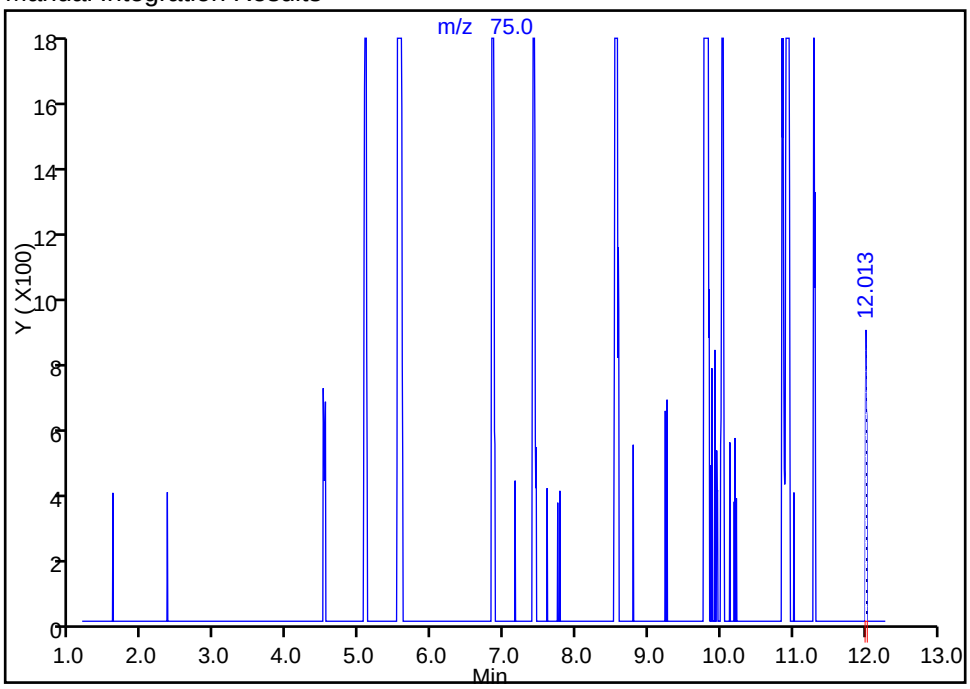
Processing Integration Results

RT: 12.02
Area: 0
Amount: 0
Amount Units: ug/L



Manual Integration Results

RT: 12.01
Area: 1007
Amount: 0.529140
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:18:27
Audit Action: Assigned Compound ID Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

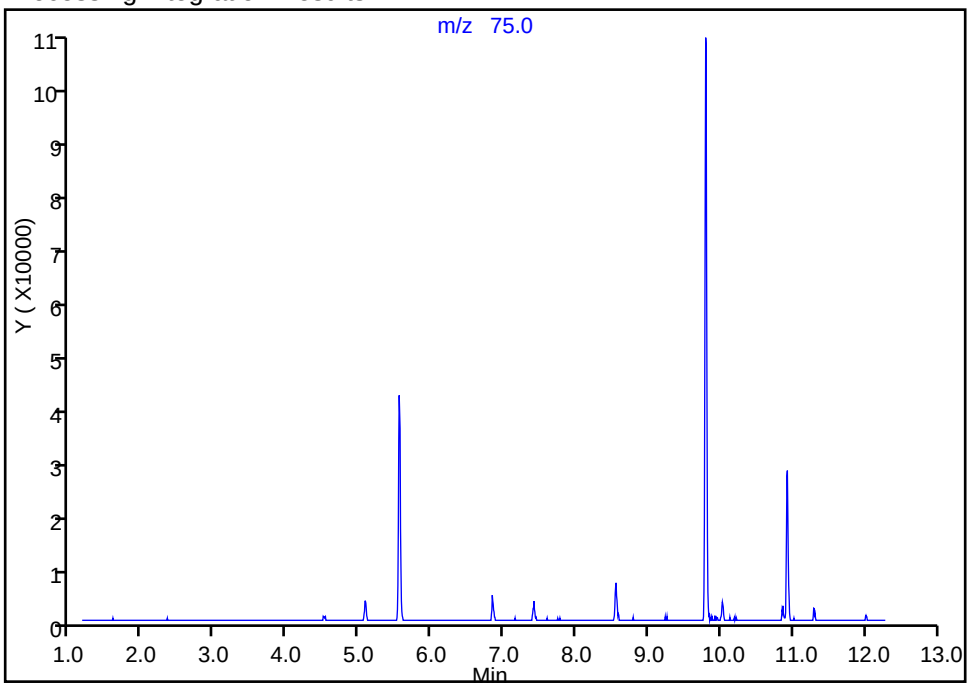
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1027.D
Injection Date: 19-Aug-2017 14:06:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 68 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

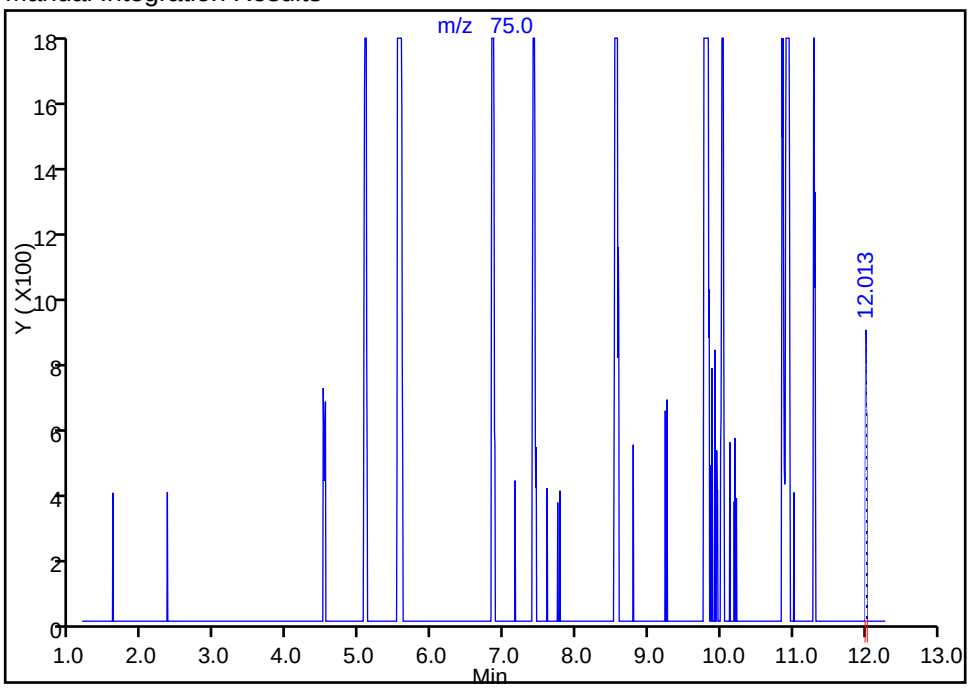
Processing Integration Results

RT: 12.02
Area: 0
Amount: 0
Amount Units: ug/L



Manual Integration Results

RT: 12.01
Area: 1007
Amount: 0.529140
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:18:31
Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Aug-2017 14:30:30 ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0064982-009
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Aug-2017 13:39:02 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: archern Date: 20-Aug-2017 09:21:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.552	5.552	0.000	99	178920	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	86	367831	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	94	355203	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	71	212829	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	142190	25.0	24.9	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	92	884967	25.0	25.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	91	282437	25.0	24.4	
10 Dichlorodifluoromethane	85	1.294	1.300	-0.006	32	9417	1.00	1.16	M
12 Chloromethane	50	1.501	1.507	-0.006	63	13503	1.00	1.28	
13 Vinyl chloride	62	1.586	1.580	0.006	23	11388	1.00	1.20	
151 Butadiene	54	1.598	1.604	-0.006	55	11554	1.00	1.25	M
14 Bromomethane	94	1.908	1.914	-0.006	45	7882	1.00	1.20	
15 Chloroethane	64	2.000	2.018	-0.018	66	9694	1.00	1.19	
17 Trichlorofluoromethane	101	2.231	2.231	0.000	34	14197	1.00	1.19	
16 Dichlorofluoromethane	67	2.231	2.231	0.000	49	19426	1.00	1.31	
18 Ethyl ether	59	2.535	2.529	0.006	66	9107	1.00	1.13	
20 Acrolein	56	2.717	2.705	0.012	68	8141	5.00	5.56	
21 1,1,2-Trichloro-1,2,2-trif	101	2.803	2.760	0.043	1	6411	1.00	1.05	M
22 1,1-Dichloroethene	96	2.766	2.772	-0.006	71	7327	1.00	1.03	M
23 Acetone	43	2.876	2.869	0.007	91	19731	5.00	6.11	M
25 Iodomethane	142	2.943	2.936	0.007	47	10857	1.00	0.9219	
26 Carbon disulfide	76	2.967	2.967	0.000	83	25501	1.00	1.13	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	82	15432	1.00	1.14	
27 Methyl acetate	43	3.180	3.174	0.006	95	40208	5.00	5.34	M
30 Methylene Chloride	84	3.326	3.295	0.031	30	11273	1.00	1.27	M
31 2-Methyl-2-propanol	59	3.447	3.441	0.006	77	11049	10.0	8.95	
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	84	28556	1.00	1.08	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	57	8738	1.00	1.10	
33 Acrylonitrile	53	3.557	3.551	0.006	98	38863	10.0	10.2	
35 Hexane	57	3.715	3.715	0.000	85	13982	1.00	1.19	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	42	17269	1.00	1.16	
37 Vinyl acetate	43	3.995	3.989	0.006	89	36226	2.00	2.07	M
44 2,2-Dichloropropane	77	4.463	4.457	0.006	48	9669	1.00	1.04	
45 cis-1,2-Dichloroethene	96	4.494	4.488	0.006	61	9835	1.00	1.06	
43 2-Butanone (MEK)	43	4.543	4.524	0.019	85	23812	5.00	5.00	M
48 Chlorobromomethane	128	4.719	4.725	-0.006	75	4204	1.00	0.9294	
49 Tetrahydrofuran	42	4.774	4.755	0.019	84	6563	2.00	2.07	
50 Chloroform	83	4.804	4.804	0.000	72	15499	1.00	1.07	
51 1,1,1-Trichloroethane	97	4.920	4.926	-0.006	52	12859	1.00	1.13	
52 Cyclohexane	56	4.932	4.932	0.000	57	14594	1.00	1.12	M
55 Carbon tetrachloride	117	5.066	5.066	0.000	63	9148	1.00	0.9494	
54 1,1-Dichloropropene	75	5.078	5.078	0.000	78	11622	1.00	1.09	
57 Benzene	78	5.279	5.279	0.000	44	36755	1.00	1.12	
53 Isobutyl alcohol	43	5.297	5.285	0.012	56	11653	25.0	24.5	M
58 1,2-Dichloroethane	62	5.346	5.339	0.007	66	14949	1.00	1.16	
59 n-Heptane	43	5.467	5.467	0.000	87	15578	1.00	1.25	
62 Trichloroethene	95	5.899	5.893	0.006	67	8083	1.00	0.9693	
64 Methylcyclohexane	83	6.015	6.021	-0.006	74	15231	1.00	1.13	
65 1,2-Dichloropropane	63	6.124	6.130	-0.006	65	9375	1.00	1.09	
67 Dibromomethane	93	6.270	6.270	0.000	77	5866	1.00	1.10	
66 1,4-Dioxane	88		6.282				ND	ND	
68 Dichlorobromomethane	83	6.422	6.416	0.006	72	10913	1.00	1.07	
69 2-Chloroethyl vinyl ether	63	6.708	6.696	0.012	59	6096	1.00	1.01	
72 cis-1,3-Dichloropropene	75	6.842	6.836	0.006	61	12741	1.00	0.9634	
73 4-Methyl-2-pentanone (MIBK	43	6.988	6.982	0.006	94	49060	5.00	5.01	
74 Toluene	92	7.134	7.134	0.000	69	25320	1.00	1.17	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	64	11322	1.00	0.9426	
75 Ethyl methacrylate	69	7.463	7.450	0.013	28	9839	1.00	0.8894	
79 1,1,2-Trichloroethane	83	7.596	7.596	0.000	63	6981	1.00	1.09	
81 Tetrachloroethene	166	7.669	7.669	0.000	81	9021	1.00	0.9745	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	62	14543	1.00	1.06	
80 2-Hexanone	43	7.834	7.821	0.013	92	31616	5.00	4.54	
83 Chlorodibromomethane	129	7.992	7.992	0.000	47	6992	1.00	0.9428	
84 Ethylene Dibromide	107	8.107	8.101	0.006	60	7697	1.00	0.9494	
87 Chlorobenzene	112	8.582	8.582	0.000	70	26118	1.00	1.06	
88 Ethylbenzene	91	8.673	8.673	0.000	26	42485	1.00	1.08	
89 1,1,1,2-Tetrachloroethane	131	8.685	8.679	0.006	20	8345	1.00	1.03	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	18044	1.00	1.10	
91 o-Xylene	106	9.227	9.221	0.006	87	15268	1.00	0.9742	
92 Styrene	104	9.257	9.251	0.006	82	26440	1.00	1.00	
95 Bromoform	173	9.495	9.494	0.001	40	4663	1.00	0.99	
94 Isopropylbenzene	105	9.604	9.604	0.000	81	43924	1.00	1.11	
101 Bromobenzene	156	9.945	9.945	0.000	84	10544	1.00	1.00	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	34	10847	1.00	1.07	
100 1,2,3-Trichloropropane	110	10.024	10.024	0.000	23	3922	1.00	1.11	
99 N-Propylbenzene	91	10.030	10.024	0.006	95	49597	1.00	1.11	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	2	2244	1.00	0.8199	M
103 2-Chlorotoluene	126	10.133	10.127	0.006	88	10328	1.00	1.09	
102 1,3,5-Trimethylbenzene	105	10.206	10.200	0.006	81	34319	1.00	1.04	
105 4-Chlorotoluene	126	10.237	10.237	0.000	54	10594	1.00	1.07	
106 tert-Butylbenzene	134	10.517	10.516	0.001	76	8486	1.00	1.10	
107 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	17	35678	1.00	1.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	67	44443	1.00	1.08	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	71	21347	1.00	1.06	
110 4-Isopropyltoluene	119	10.869	10.863	0.006	88	37598	1.00	1.06	
113 1,4-Dichlorobenzene	146	10.949	10.948	0.001	75	23051	1.00	1.11	
115 n-Butylbenzene	91	11.247	11.247	0.000	91	32188	1.00	1.05	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	82	20002	1.00	1.03	
117 1,2-Dibromo-3-Chloropropan	75	12.025	12.013	0.012	5	1632	1.00	0.8769	
119 1,2,4-Trichlorobenzene	180	12.695	12.694	0.000	66	14451	1.00	1.07	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	55	6322	1.00	1.04	
121 Naphthalene	128	12.907	12.907	0.000	79	33479	1.00	0.9679	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	73	12064	1.00	0.9750	
S 124 Xylenes, Total	1				0			2.08	
S 123 Total BTEX	1				0			5.44	
S 126 1,3-Dichloropropene, Total	1				0			1.91	
S 125 1,2-Dichloroethene, Total	1				0			2.16	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00106	Amount Added:	1.00	Units: uL	
GAS CORP mix_00237	Amount Added:	1.00	Units: uL	
S_8260_IS_00257	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00209	Amount Added:	1.00	Units: uL	Run Reagent

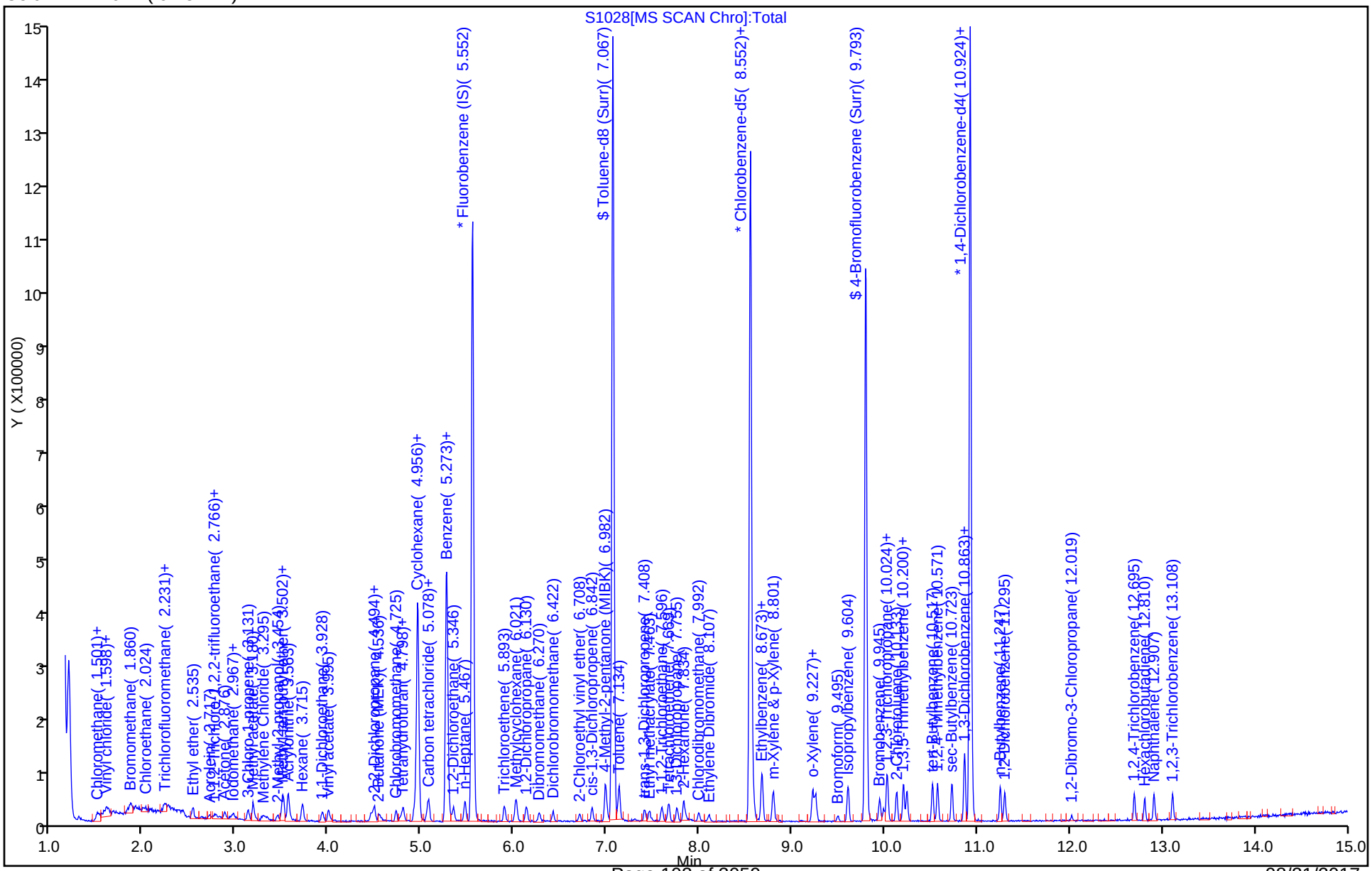
Report Date: 20-Aug-2017 13:39:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D

Injection Date:	19-Aug-2017 14:30:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	69
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

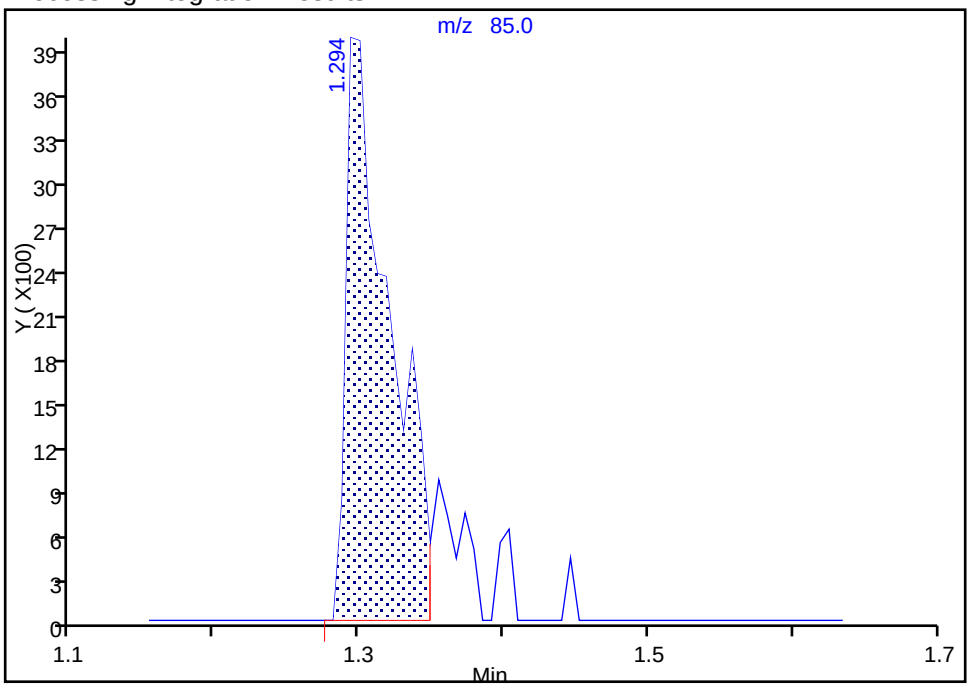
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

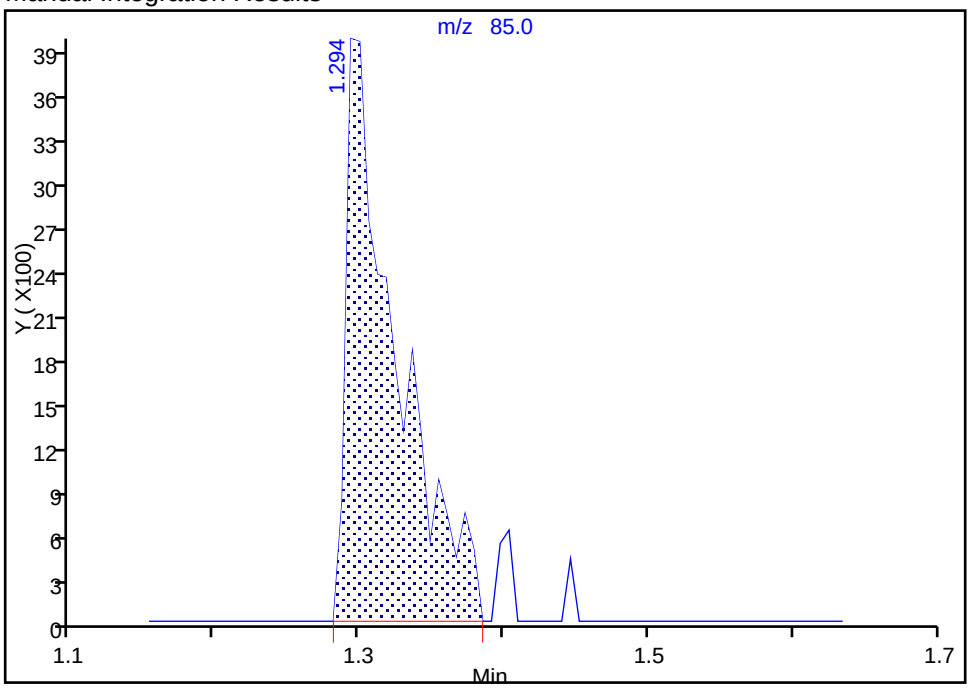
Processing Integration Results

RT: 1.29
Area: 8224
Amount: 1.066856
Amount Units: ug/L



Manual Integration Results

RT: 1.29
Area: 9417
Amount: 1.162264
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:18:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

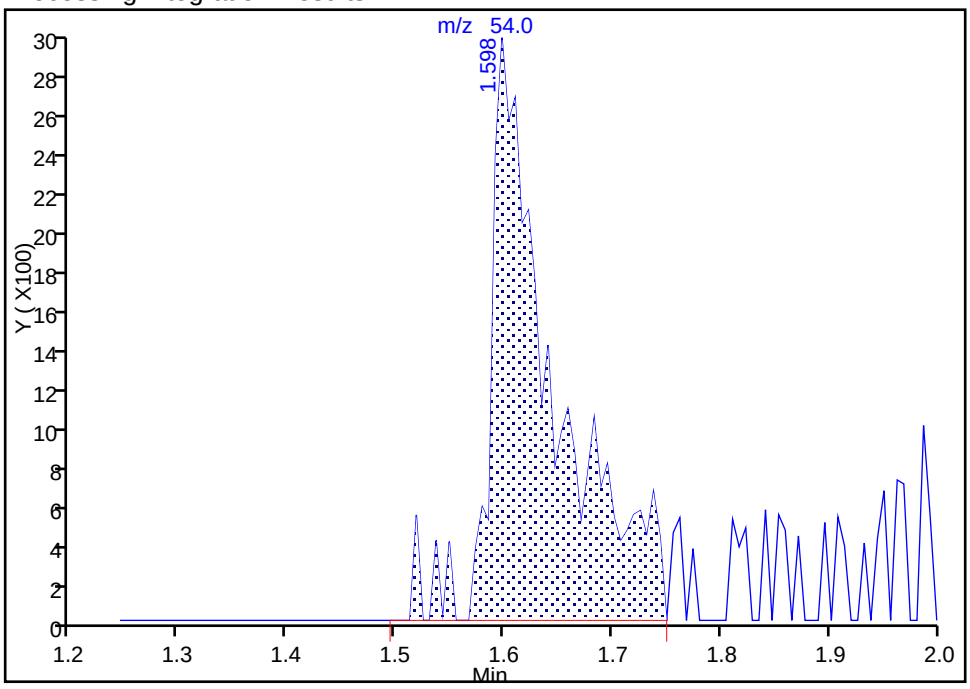
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

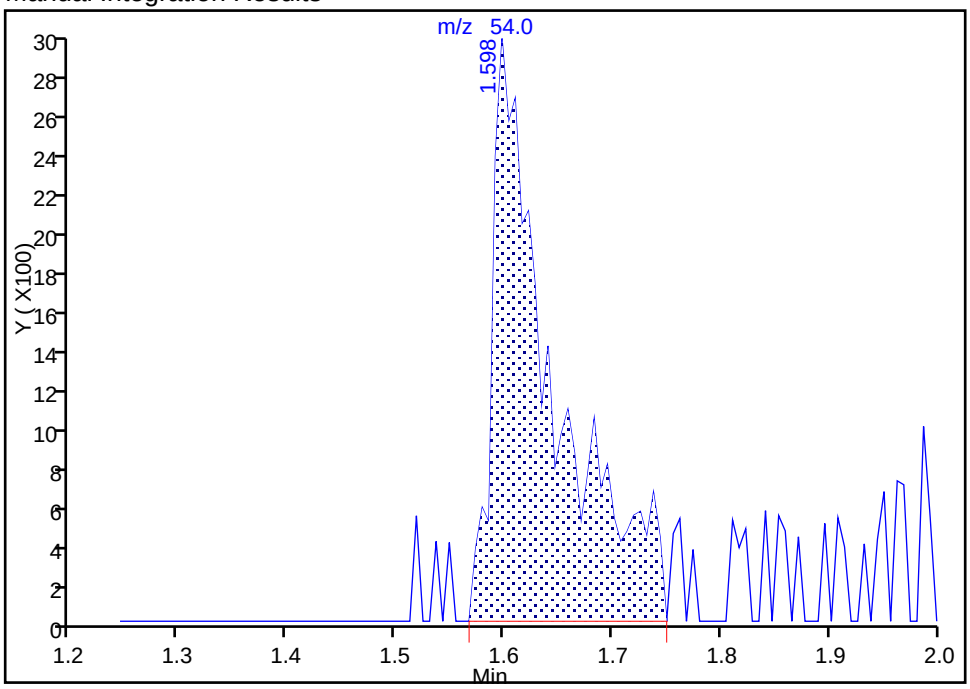
Processing Integration Results

RT: 1.60
Area: 12045
Amount: 1.271405
Amount Units: ug/L



Manual Integration Results

RT: 1.60
Area: 11554
Amount: 1.250329
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:12:45
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

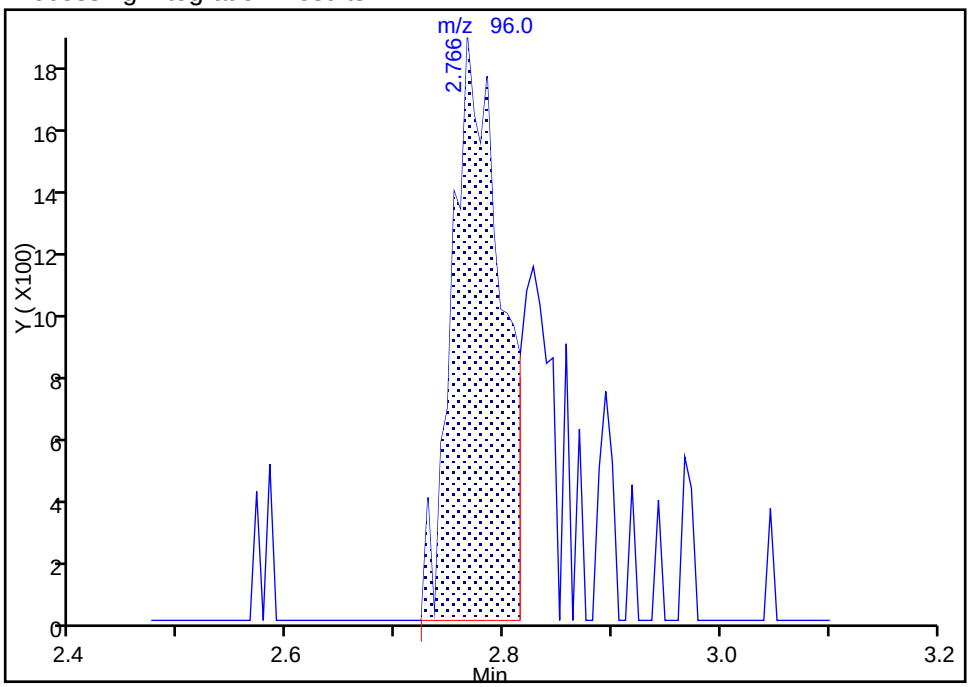
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

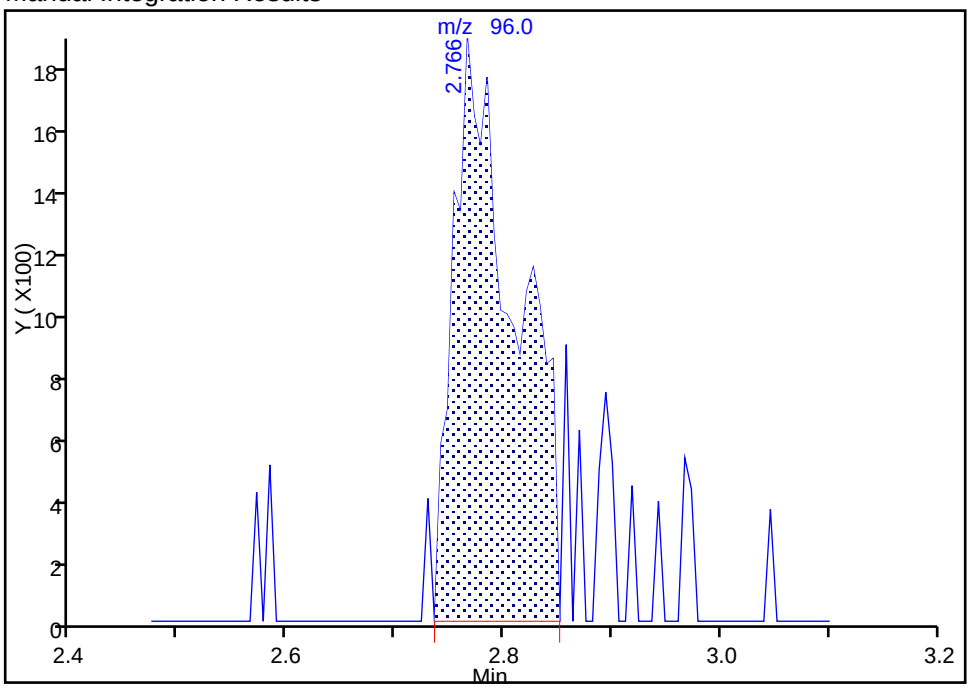
Processing Integration Results

RT: 2.77
Area: 5734
Amount: 1.093184
Amount Units: ug/L



Manual Integration Results

RT: 2.77
Area: 7327
Amount: 1.032368
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:15:26
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

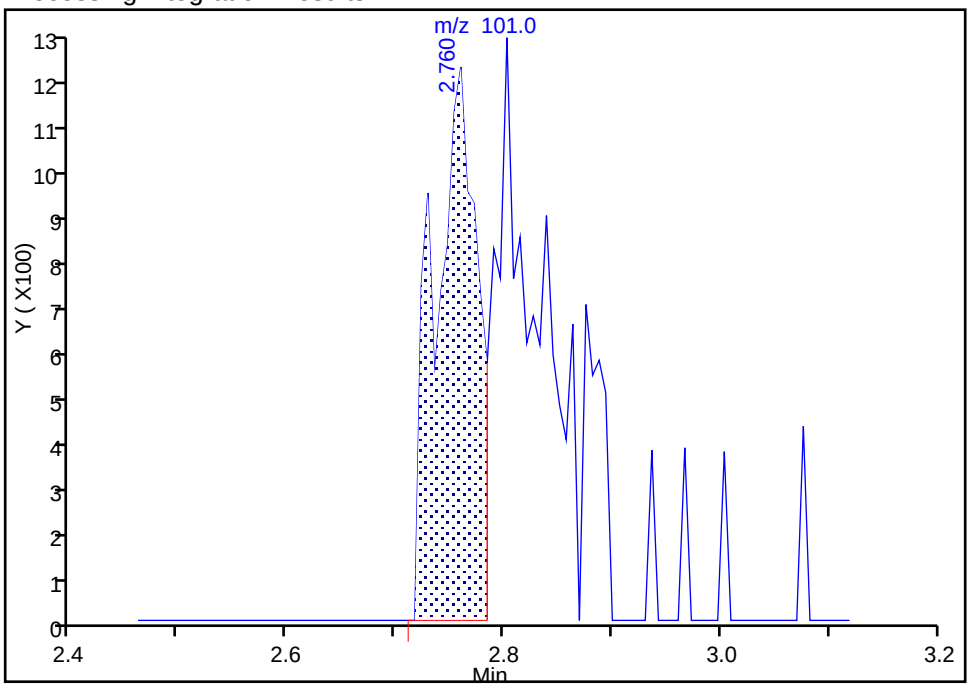
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

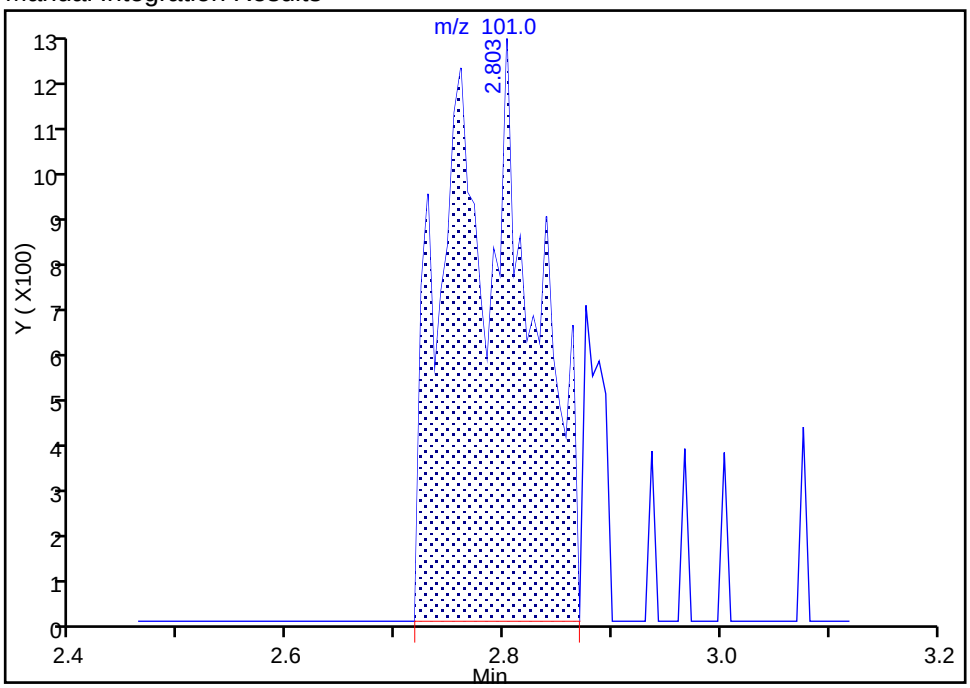
Processing Integration Results

RT: 2.76
Area: 3192
Amount: 0.746279
Amount Units: ug/L



Manual Integration Results

RT: 2.80
Area: 6411
Amount: 1.051170
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:19:25
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

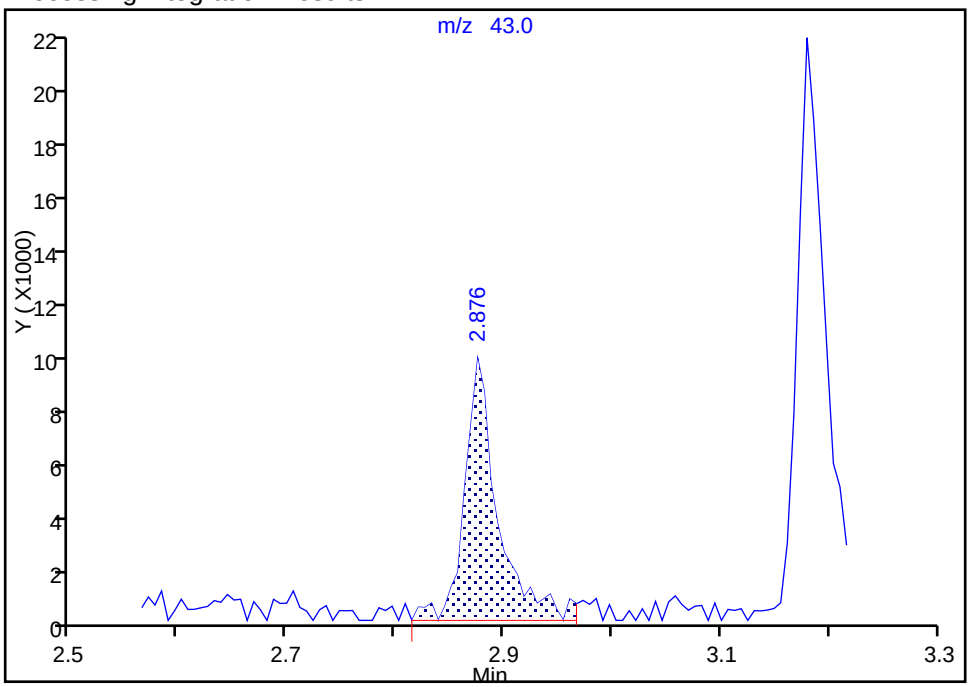
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

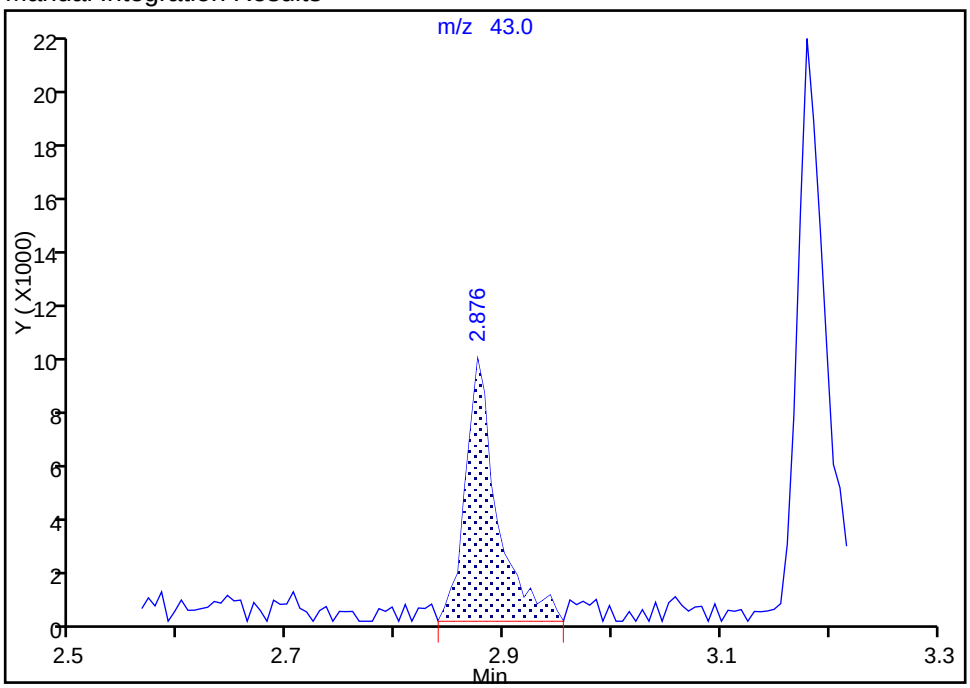
Processing Integration Results

RT: 2.88
Area: 20833
Amount: 5.645779
Amount Units: ug/L



Manual Integration Results

RT: 2.88
Area: 19731
Amount: 6.109679
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:19:34
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

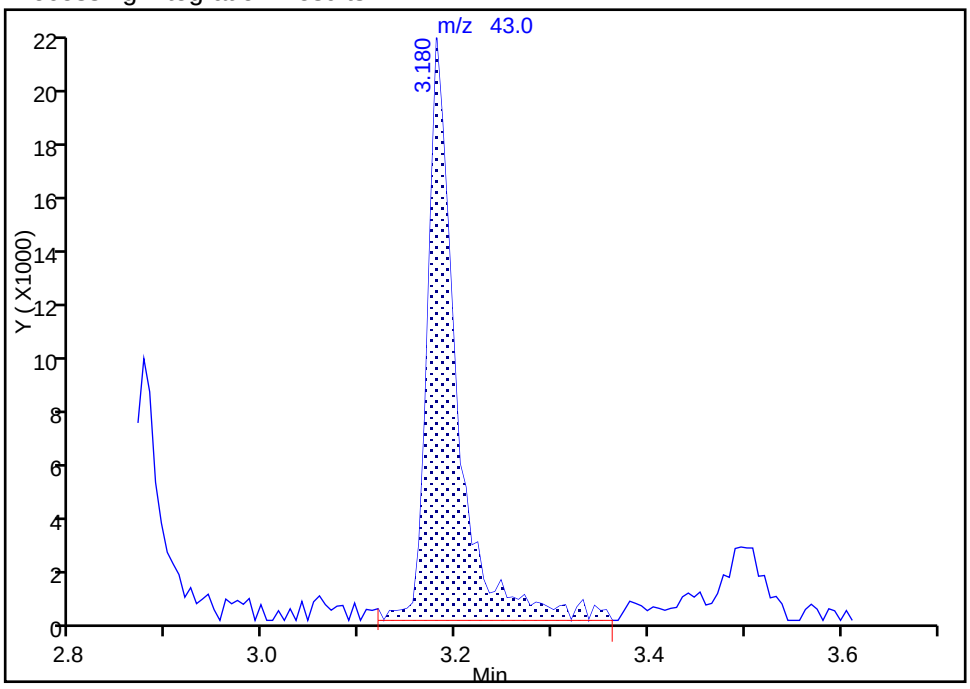
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

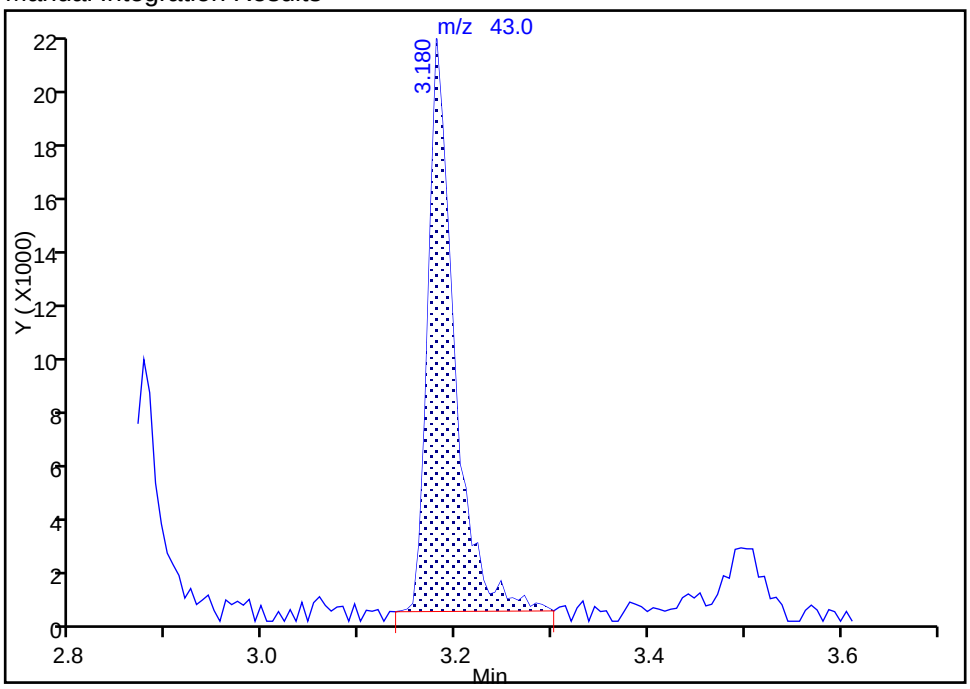
Processing Integration Results

RT: 3.18
Area: 45611
Amount: 5.952650
Amount Units: ug/L



Manual Integration Results

RT: 3.18
Area: 40208
Amount: 5.341675
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:20:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

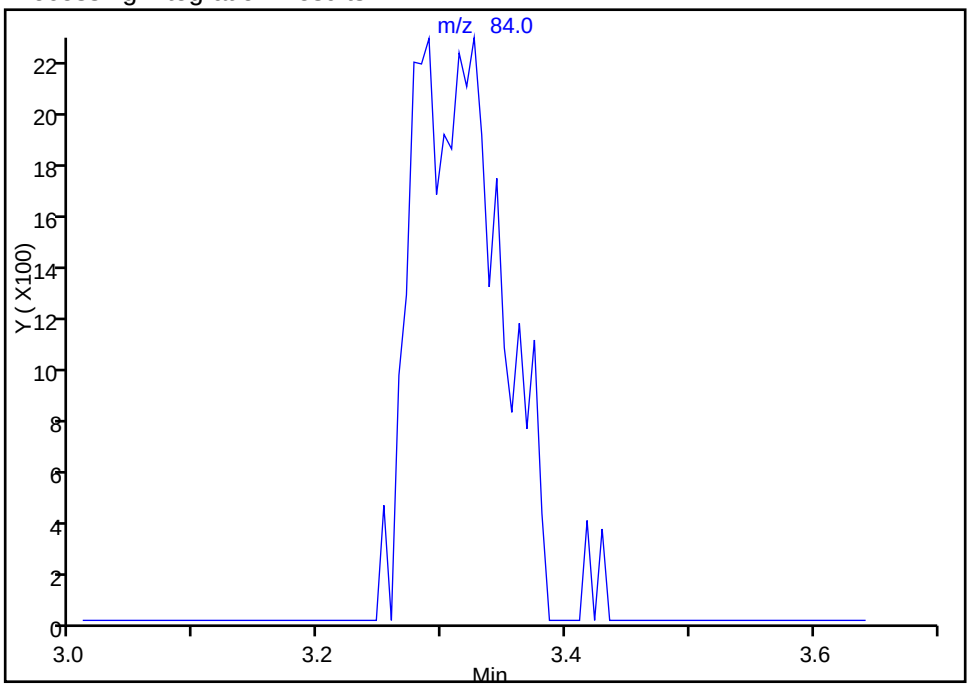
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

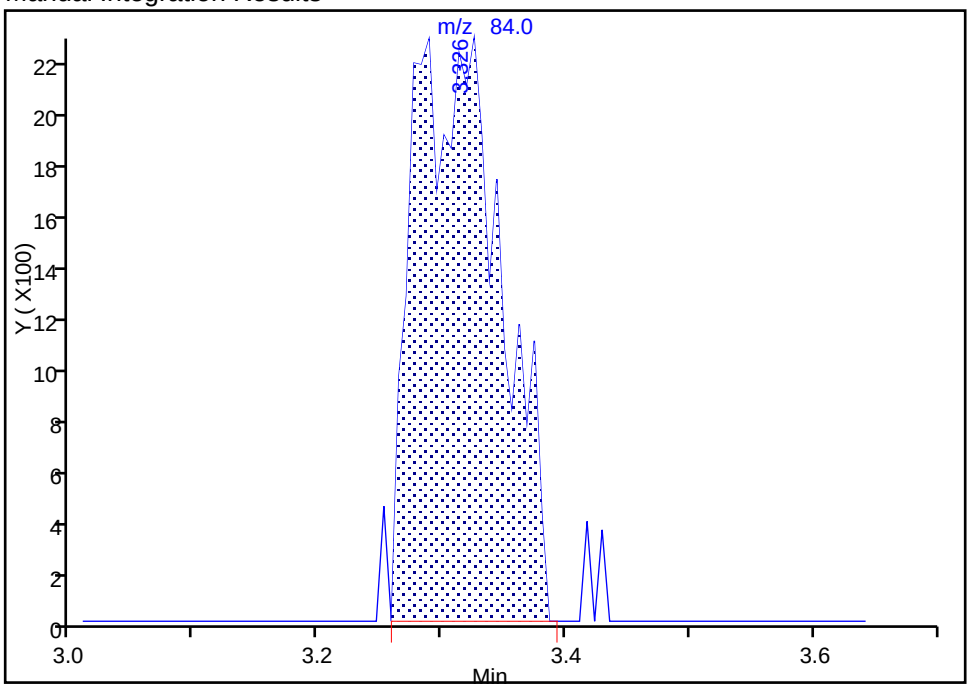
Not Detected
Expected RT: 3.30

Processing Integration Results



Manual Integration Results

RT: 3.33
Area: 11273
Amount: 1.268623
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:20:40
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

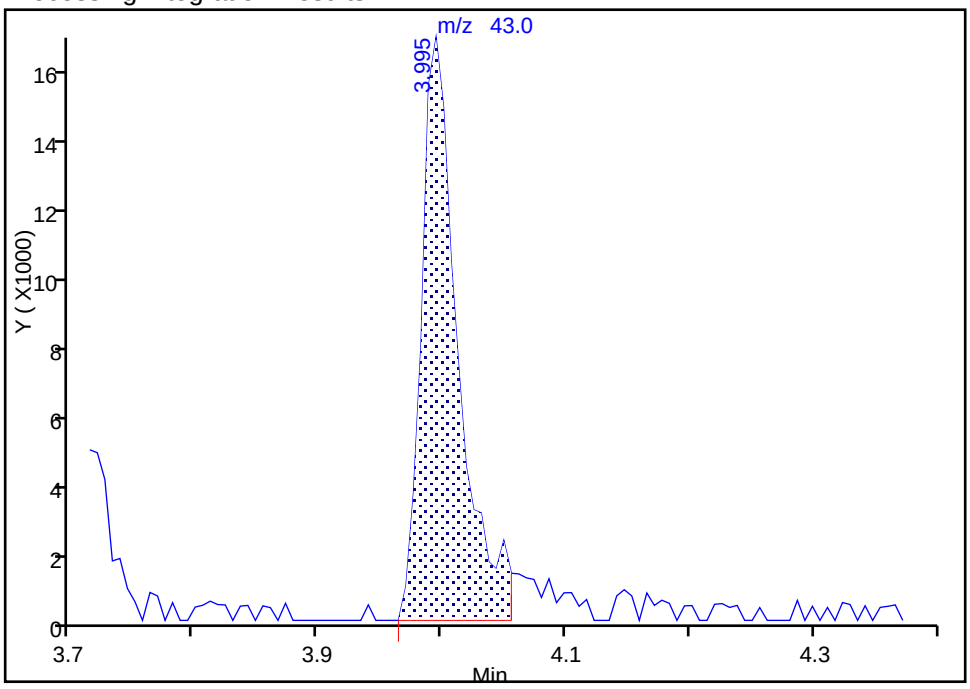
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

37 Vinyl acetate, CAS: 108-05-4

Signal: 1

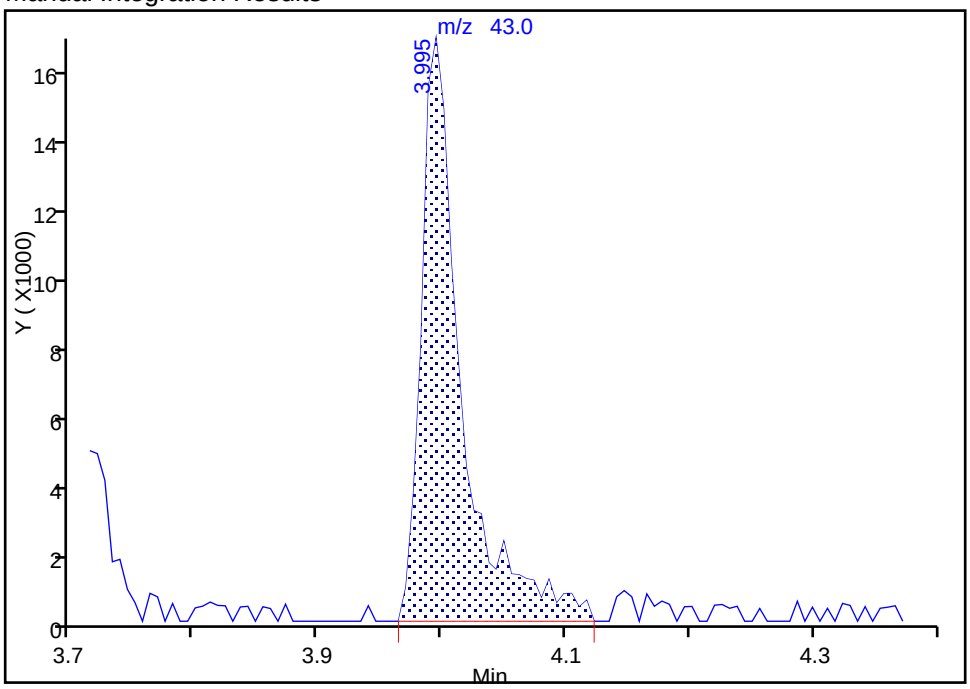
Processing Integration Results

RT: 4.00
Area: 33177
Amount: 1.916071
Amount Units: ug/L



Manual Integration Results

RT: 4.00
Area: 36226
Amount: 2.069385
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:21:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

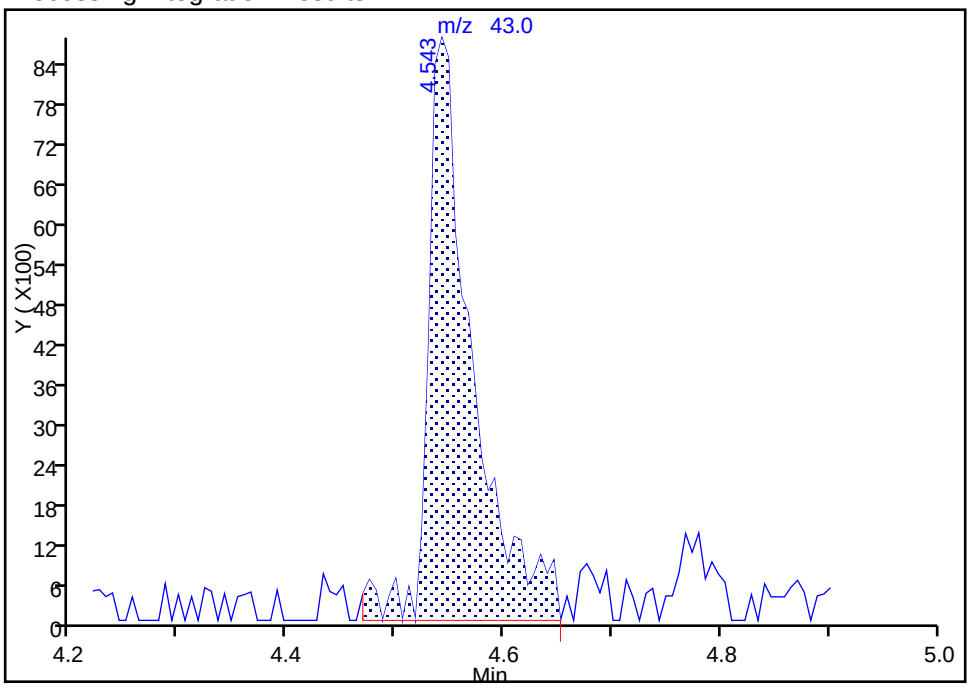
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

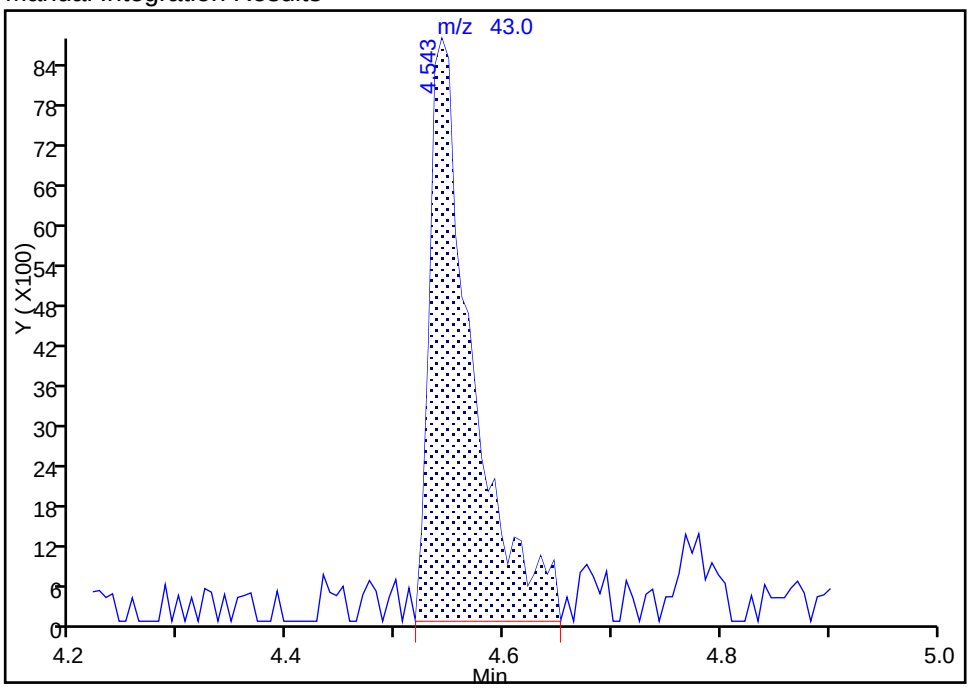
Processing Integration Results

RT: 4.54
Area: 24894
Amount: 5.131164
Amount Units: ug/L



Manual Integration Results

RT: 4.54
Area: 23812
Amount: 5.003772
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:21:28
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

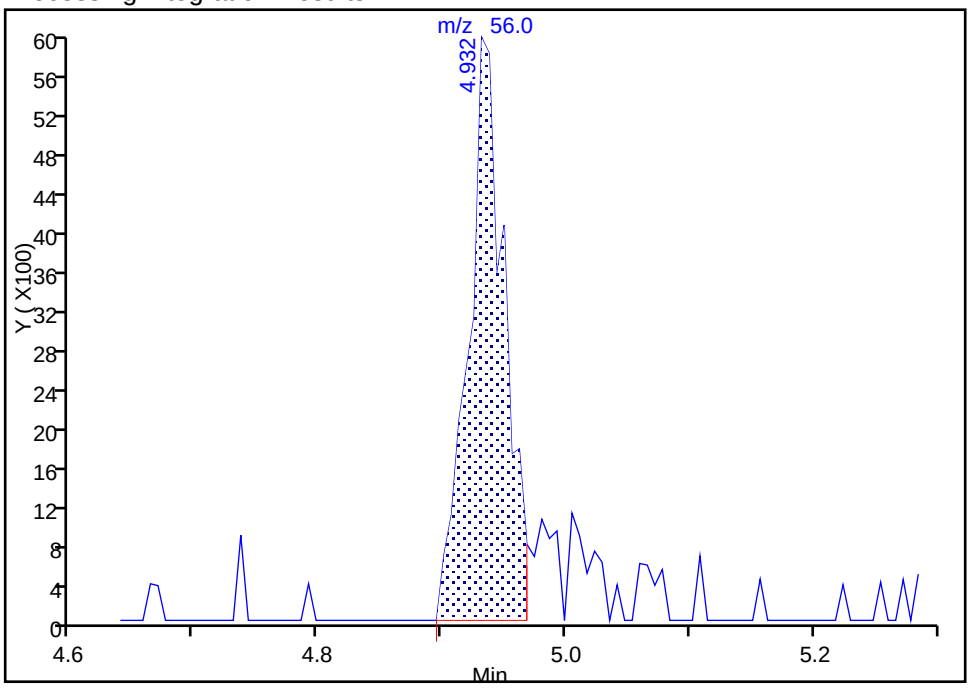
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

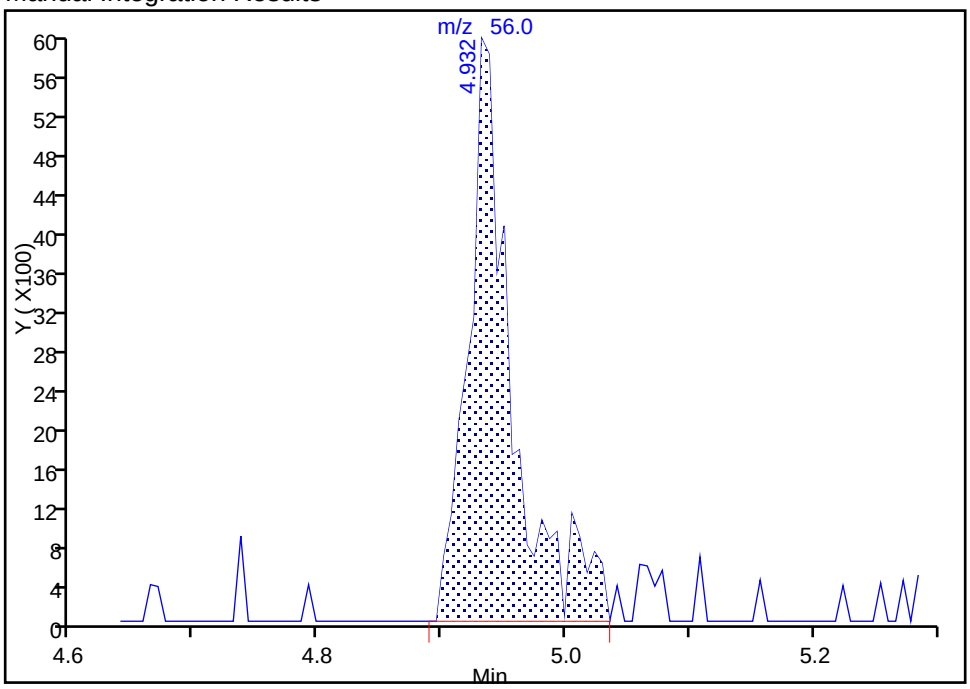
Processing Integration Results

RT: 4.93
Area: 11988
Amount: 0.935367
Amount Units: ug/L



Manual Integration Results

RT: 4.93
Area: 14594
Amount: 1.124199
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:25:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

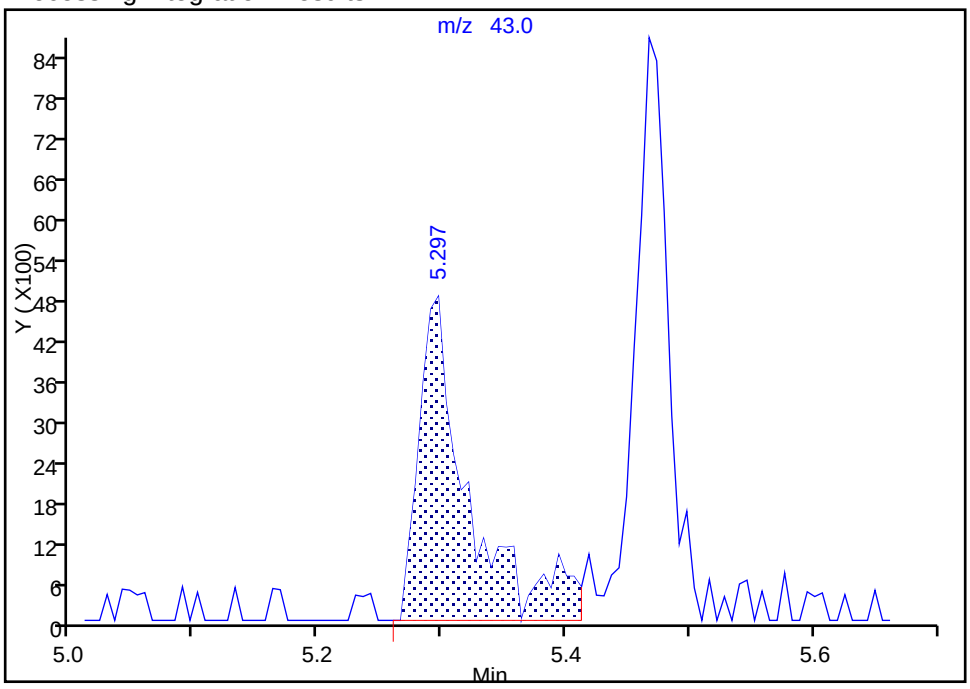
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

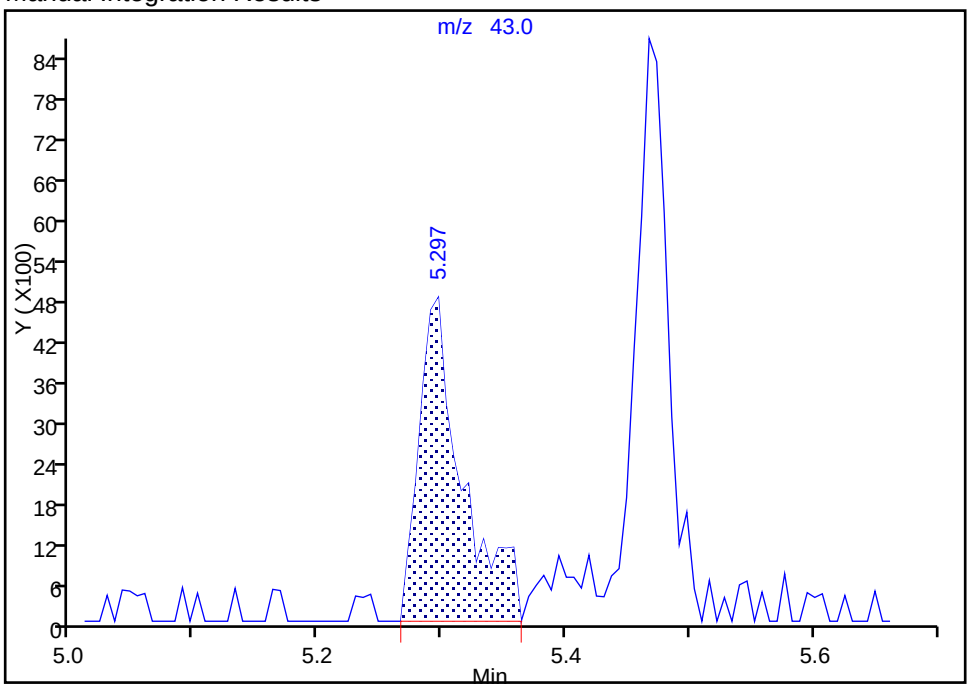
Processing Integration Results

RT: 5.30
Area: 13414
Amount: 31.311280
Amount Units: ug/L



Manual Integration Results

RT: 5.30
Area: 11653
Amount: 24.522691
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:21:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

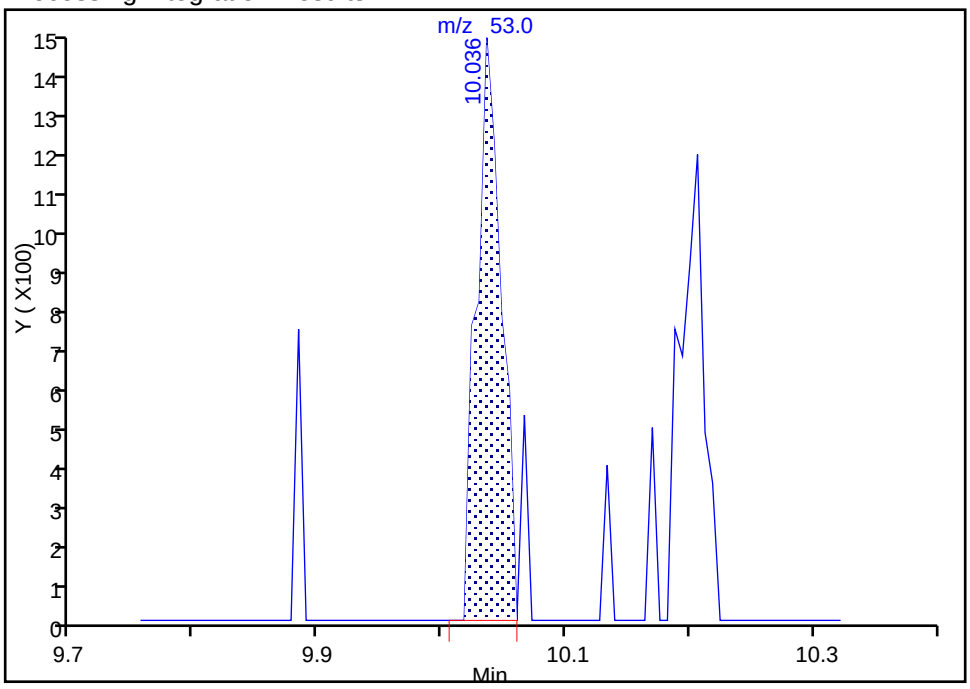
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1028.D
Injection Date: 19-Aug-2017 14:30:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 69 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

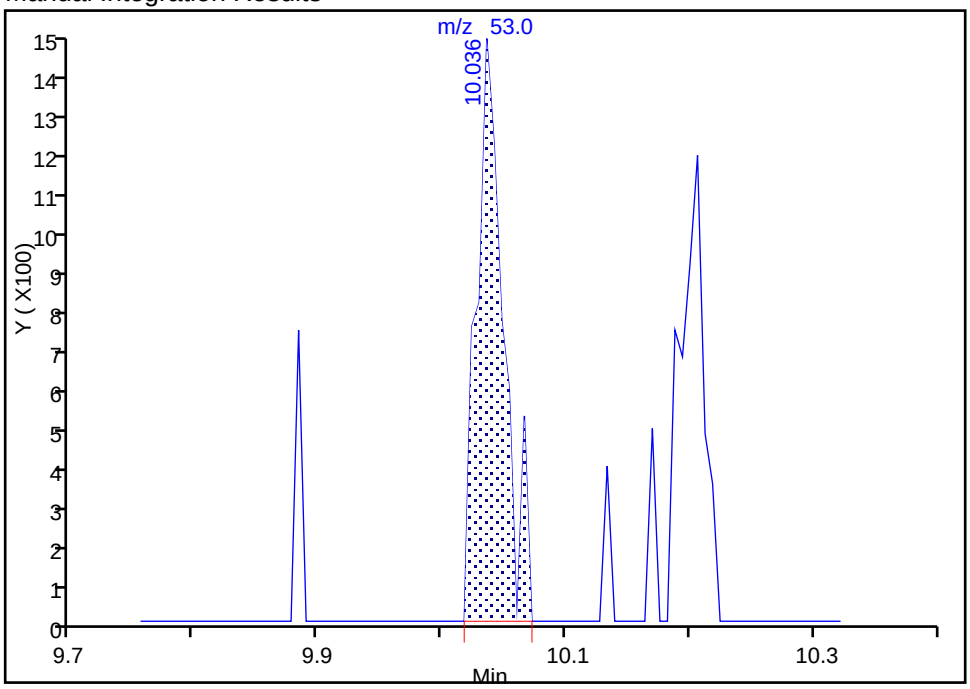
Processing Integration Results

RT: 10.04
Area: 2053
Amount: 0.724964
Amount Units: ug/L



Manual Integration Results

RT: 10.04
Area: 2244
Amount: 0.819871
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:43:07
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Aug-2017 14:53:30 ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0064982-010
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Aug-2017 13:39:07 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: archern Date: 20-Aug-2017 09:21:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.552	5.552	0.000	99	178920	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.551	8.552	-0.001	87	370930	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	94	358262	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	71	211486	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	144247	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	92	888524	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	92	289398	25.0	24.8	
10 Dichlorodifluoromethane	85	1.306	1.300	0.006	68	15363	2.00	1.90	M
12 Chloromethane	50	1.495	1.507	-0.013	49	22536	2.00	2.14	
13 Vinyl chloride	62	1.592	1.580	0.012	50	19004	2.00	2.00	M
151 Butadiene	54	1.610	1.604	0.006	83	18561	2.00	2.01	M
14 Bromomethane	94	1.914	1.914	0.000	53	15397	2.00	2.35	
15 Chloroethane	64	1.999	2.018	-0.019	64	13350	2.00	1.81	
16 Dichlorofluoromethane	67	2.225	2.231	-0.006	55	31826	2.00	2.14	
17 Trichlorofluoromethane	101	2.231	2.231	0.000	72	22227	2.00	1.86	
18 Ethyl ether	59	2.529	2.529	0.000	80	13291	2.00	1.66	
20 Acrolein	56	2.705	2.705	0.000	77	14462	10.0	9.88	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.760	0.006	1	9705	2.00	1.59	M
22 1,1-Dichloroethene	96	2.778	2.772	0.006	55	10746	2.00	1.51	M
23 Acetone	43	2.875	2.869	0.006	90	33351	10.0	10.3	
25 Iodomethane	142	2.942	2.936	0.006	74	19349	2.00	1.64	M
26 Carbon disulfide	76	2.973	2.967	0.006	88	37992	2.00	1.68	
28 3-Chloro-1-propene	41	3.131	3.125	0.006	76	23950	2.00	1.77	M
27 Methyl acetate	43	3.180	3.174	0.006	96	61466	10.0	8.17	M
30 Methylene Chloride	84	3.301	3.295	0.006	71	15742	2.00	1.77	M
31 2-Methyl-2-propanol	59	3.447	3.441	0.006	85	22664	20.0	18.4	M
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	86	48887	2.00	1.85	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	67	13312	2.00	1.68	
33 Acrylonitrile	53	3.563	3.551	0.012	98	69000	20.0	18.1	
35 Hexane	57	3.715	3.715	0.000	88	18025	2.00	1.53	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	64	26176	2.00	1.76	
37 Vinyl acetate	43	3.995	3.989	0.006	97	60686	4.00	3.47	
44 2,2-Dichloropropane	77	4.451	4.457	-0.006	62	15283	2.00	1.65	
45 cis-1,2-Dichloroethene	96	4.494	4.488	0.006	66	17402	2.00	1.88	
43 2-Butanone (MEK)	43	4.542	4.524	0.018	91	41690	10.0	8.76	
48 Chlorobromomethane	128	4.725	4.725	0.000	78	8477	2.00	1.87	
49 Tetrahydrofuran	42	4.767	4.755	0.012	81	11297	4.00	3.56	
50 Chloroform	83	4.798	4.804	-0.006	61	26982	2.00	1.86	
51 1,1,1-Trichloroethane	97	4.926	4.926	0.000	80	18390	2.00	1.62	
52 Cyclohexane	56	4.938	4.932	0.006	43	22929	2.00	1.77	M
55 Carbon tetrachloride	117	5.059	5.066	-0.007	75	16097	2.00	1.67	
54 1,1-Dichloropropene	75	5.084	5.078	0.006	75	16521	2.00	1.54	
57 Benzene	78	5.278	5.279	-0.001	54	57378	2.00	1.74	
53 Isobutyl alcohol	43	5.291	5.285	0.006	37	18648	50.0	39.2	M
58 1,2-Dichloroethane	62	5.345	5.339	0.006	20	23188	2.00	1.80	M
59 n-Heptane	43	5.467	5.467	0.000	82	21741	2.00	1.74	
62 Trichloroethene	95	5.899	5.893	0.006	85	15857	2.00	1.90	
64 Methylcyclohexane	83	6.021	6.021	0.000	81	22629	2.00	1.68	
65 1,2-Dichloropropane	63	6.136	6.130	0.006	73	16022	2.00	1.87	
67 Dibromomethane	93	6.270	6.270	0.000	69	8650	2.00	1.62	
66 1,4-Dioxane	88	6.301	6.282	0.019	34	3177	40.0	40.1	
68 Dichlorobromomethane	83	6.428	6.416	0.012	72	16677	2.00	1.63	
69 2-Chloroethyl vinyl ether	63	6.702	6.696	0.006	71	10379	2.00	1.71	
72 cis-1,3-Dichloropropene	75	6.842	6.836	0.006	71	21932	2.00	1.66	
73 4-Methyl-2-pentanone (MIBK	43	6.988	6.982	0.006	95	85951	10.0	8.71	
74 Toluene	92	7.134	7.134	0.000	73	37060	2.00	1.69	
77 trans-1,3-Dichloropropene	75	7.408	7.402	0.006	79	19255	2.00	1.59	
75 Ethyl methacrylate	69	7.456	7.450	0.006	56	17502	2.00	1.57	
79 1,1,2-Trichloroethane	83	7.596	7.596	0.000	73	10967	2.00	1.71	
81 Tetrachloroethene	166	7.663	7.669	-0.006	82	15326	2.00	1.64	
82 1,3-Dichloropropane	76	7.754	7.755	-0.001	78	22364	2.00	1.61	
80 2-Hexanone	43	7.834	7.821	0.013	94	60799	10.0	8.66	
83 Chlorodibromomethane	129	7.992	7.992	0.000	54	11523	2.00	1.54	
84 Ethylene Dibromide	107	8.101	8.101	0.000	60	14168	2.00	1.73	
87 Chlorobenzene	112	8.582	8.582	0.000	79	42541	2.00	1.71	
88 Ethylbenzene	91	8.673	8.673	0.000	35	68398	2.00	1.73	
89 1,1,1,2-Tetrachloroethane	131	8.679	8.679	0.000	25	13143	2.00	1.61	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	28144	2.00	1.70	
91 o-Xylene	106	9.227	9.221	0.006	91	26663	2.00	1.69	
92 Styrene	104	9.251	9.251	0.000	89	46346	2.00	1.73	
95 Bromoform	173	9.488	9.494	-0.006	71	7466	2.00	1.58	
94 Isopropylbenzene	105	9.604	9.604	0.000	92	67091	2.00	1.68	
101 Bromobenzene	156	9.951	9.945	0.006	85	19400	2.00	1.82	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	65	18920	2.00	1.84	
99 N-Propylbenzene	91	10.024	10.024	0.000	95	75802	2.00	1.68	
100 1,2,3-Trichloropropane	110	10.030	10.024	0.006	20	6053	2.00	1.70	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	38	4350	2.00	1.58	
103 2-Chlorotoluene	126	10.127	10.127	0.000	90	16797	2.00	1.75	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	90	61325	2.00	1.84	
105 4-Chlorotoluene	126	10.243	10.237	0.006	82	17412	2.00	1.74	
106 tert-Butylbenzene	134	10.523	10.516	0.007	76	14355	2.00	1.85	
107 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	32	57428	2.00	1.69	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	84	70772	2.00	1.71	
111 1,3-Dichlorobenzene	146	10.863	10.857	0.006	65	36046	2.00	1.78	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	91	64173	2.00	1.79	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	84	36459	2.00	1.75	
115 n-Butylbenzene	91	11.246	11.247	-0.001	92	50272	2.00	1.63	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	86	36309	2.00	1.86	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	8	2895	2.00	1.54	
119 1,2,4-Trichlorobenzene	180	12.694	12.694	0.000	77	22177	2.00	1.63	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	63	10332	2.00	1.68	
121 Naphthalene	128	12.907	12.907	0.000	90	59884	2.00	1.72	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	84	22052	2.00	1.77	
S 126 1,3-Dichloropropene, Total	1				0			3.25	
S 125 1,2-Dichloroethene, Total	1				0			3.55	
S 124 Xylenes, Total	1				0			3.39	
S 123 Total BTEX	1				0			8.55	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00106	Amount Added:	2.00	Units: uL	
GAS CORP mix_00237	Amount Added:	2.00	Units: uL	
S_8260_IS_00257	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00209	Amount Added:	1.00	Units: uL	Run Reagent

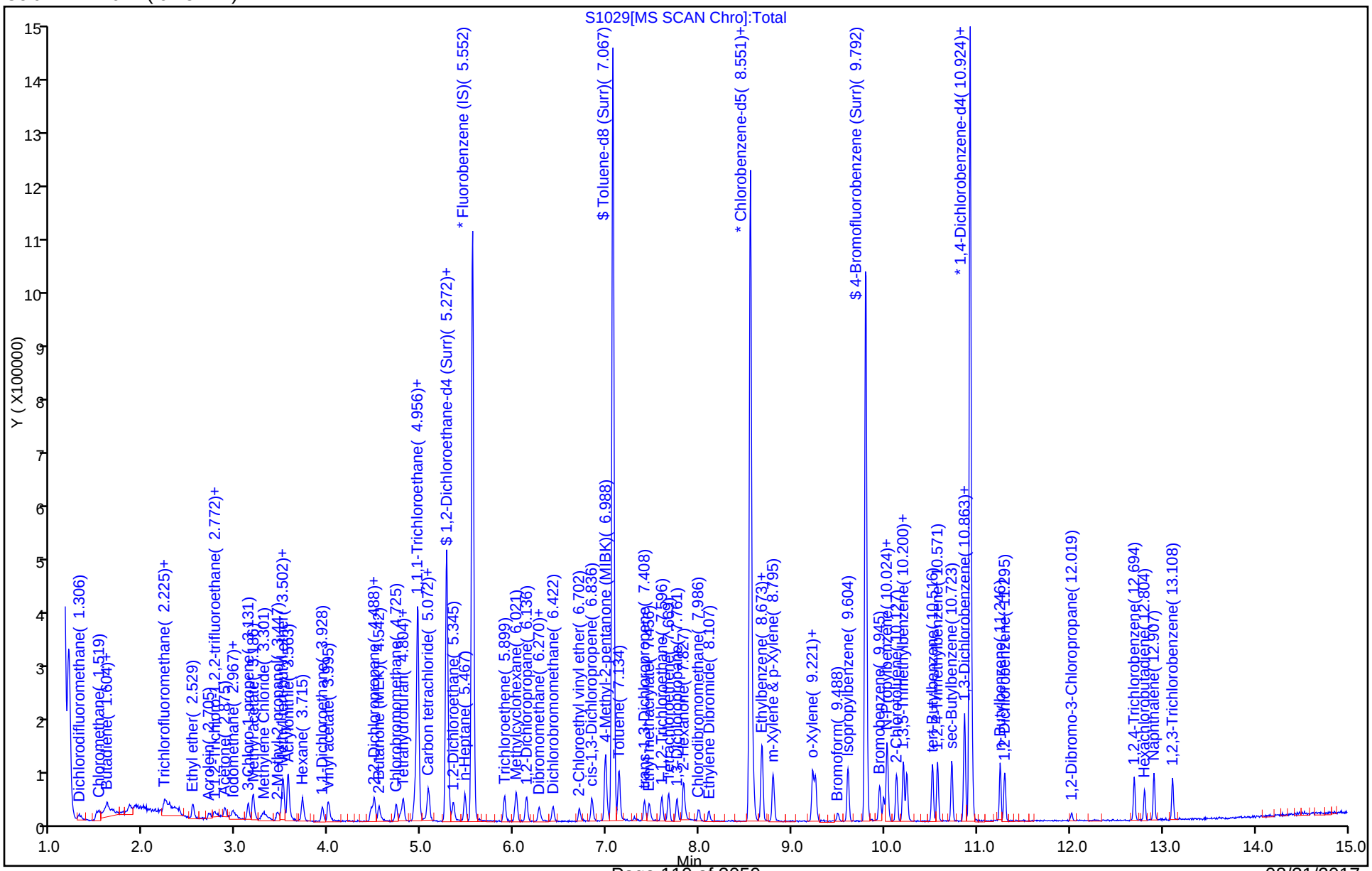
Report Date: 20-Aug-2017 13:39:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D

Injection Date:	19-Aug-2017 14:53:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 2			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	70
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

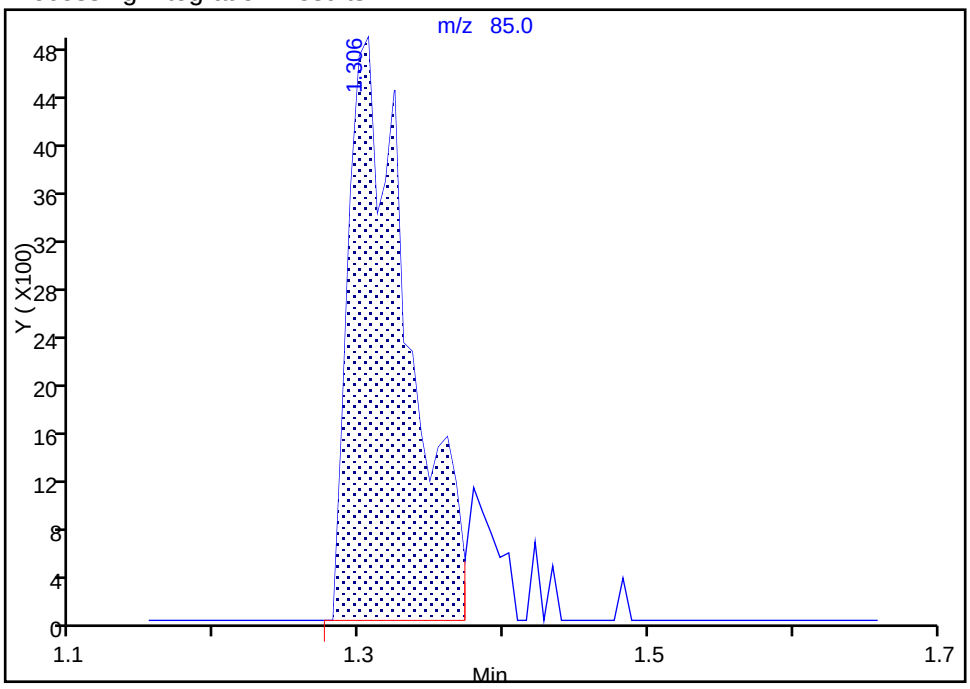
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

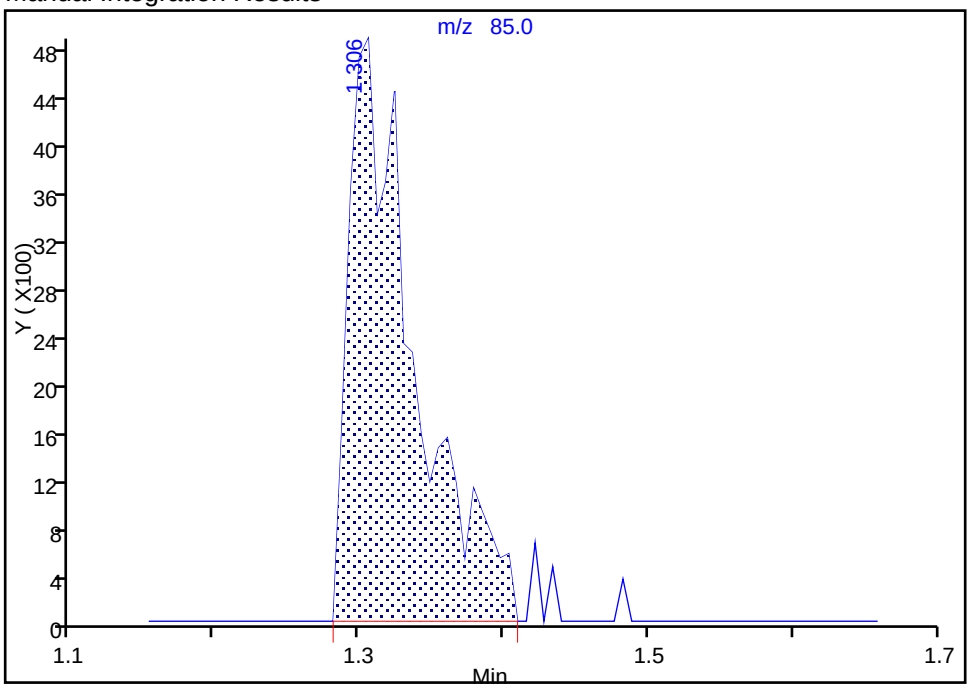
Processing Integration Results

RT: 1.31
Area: 13961
Amount: 1.776716
Amount Units: ug/L



Manual Integration Results

RT: 1.31
Area: 15363
Amount: 1.896130
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:29:22
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

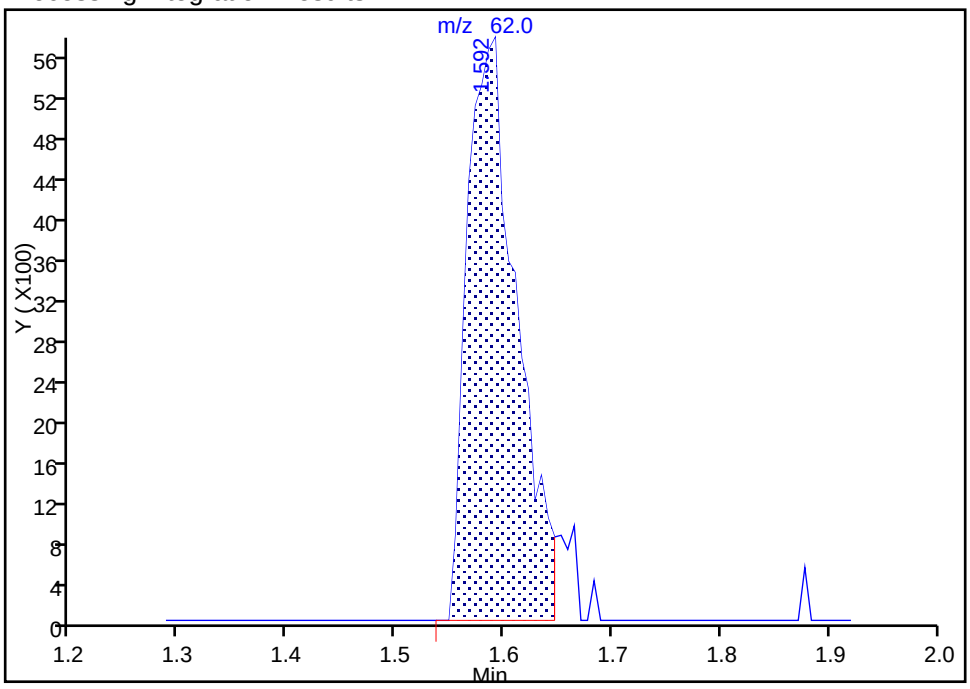
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

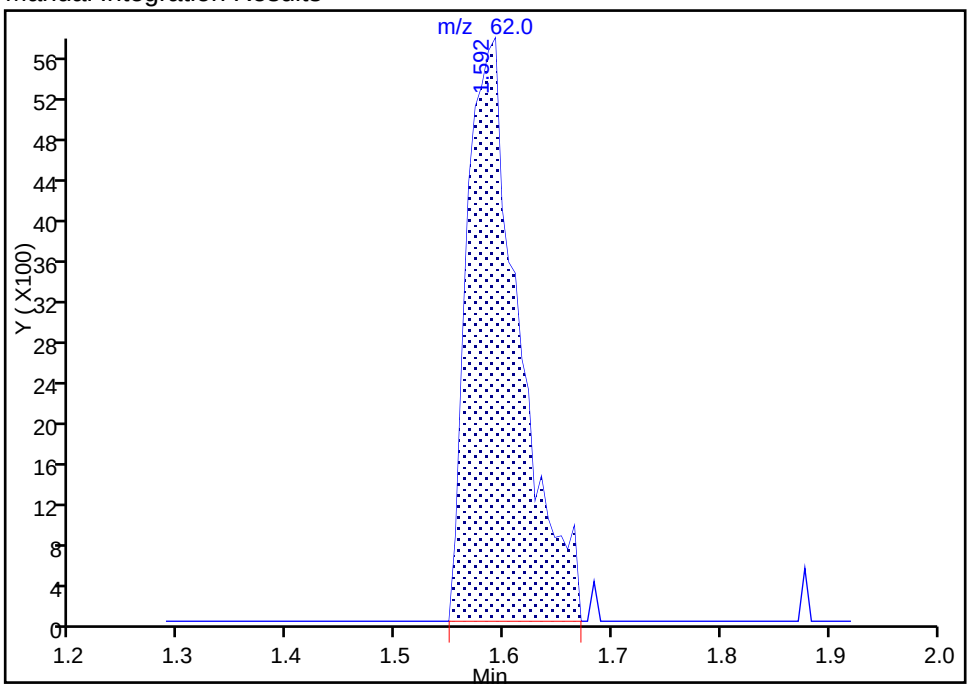
Processing Integration Results

RT: 1.59
Area: 18107
Amount: 1.912892
Amount Units: ug/L



Manual Integration Results

RT: 1.59
Area: 19004
Amount: 1.995834
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:22:54
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

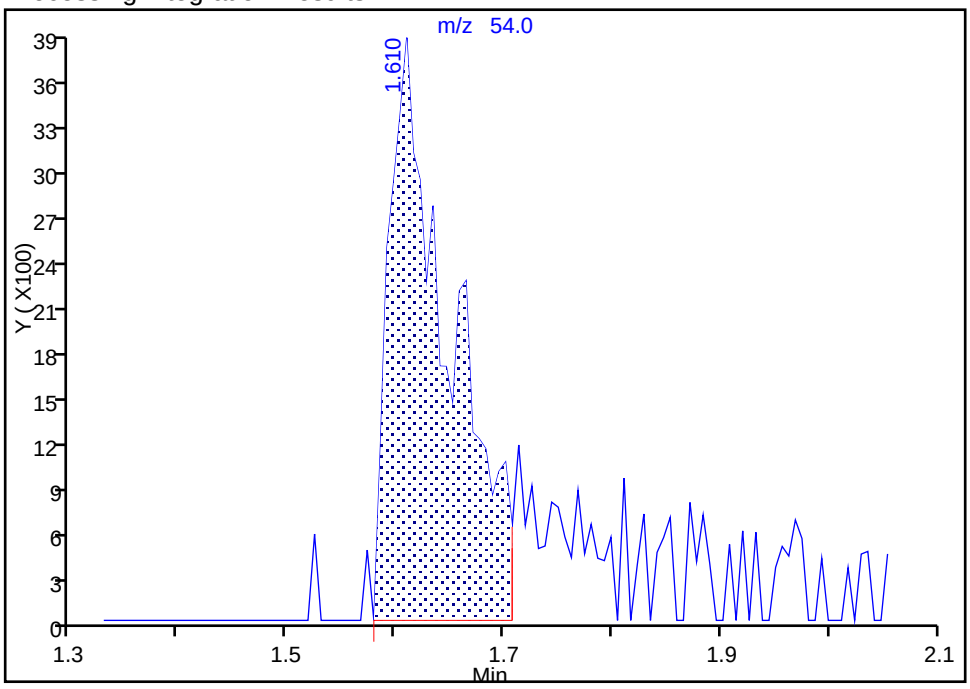
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

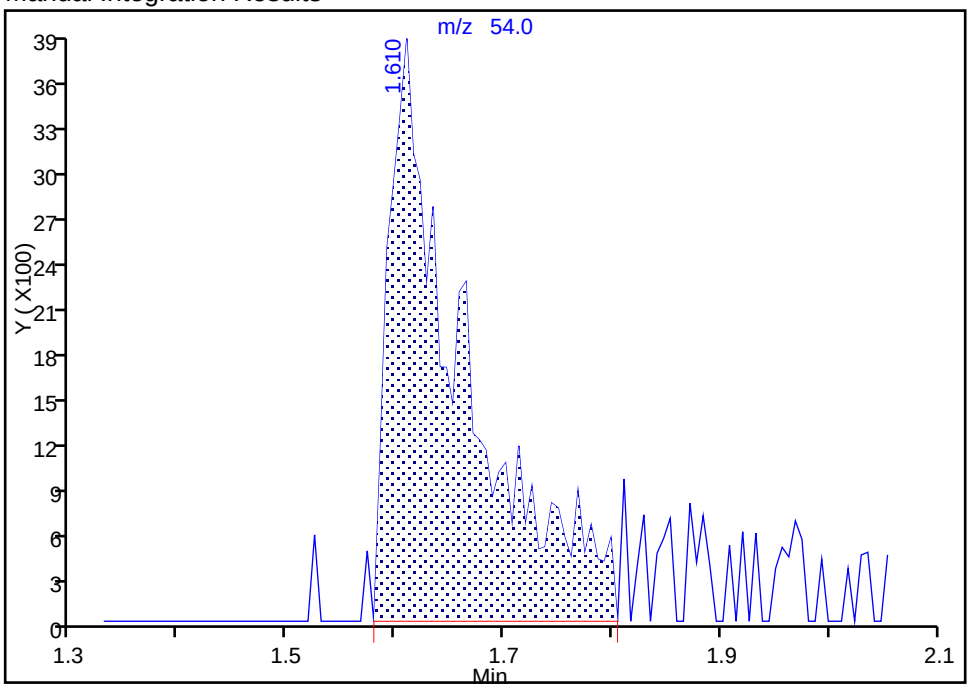
Processing Integration Results

RT: 1.61
Area: 15080
Amount: 1.652283
Amount Units: ug/L



Manual Integration Results

RT: 1.61
Area: 18561
Amount: 2.008600
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:13:43
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

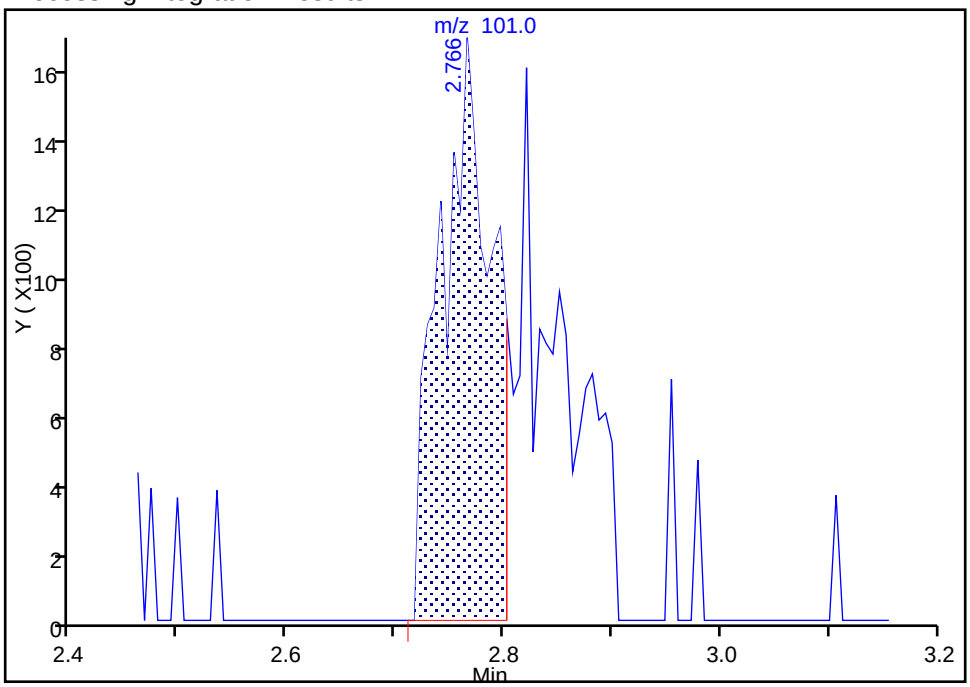
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

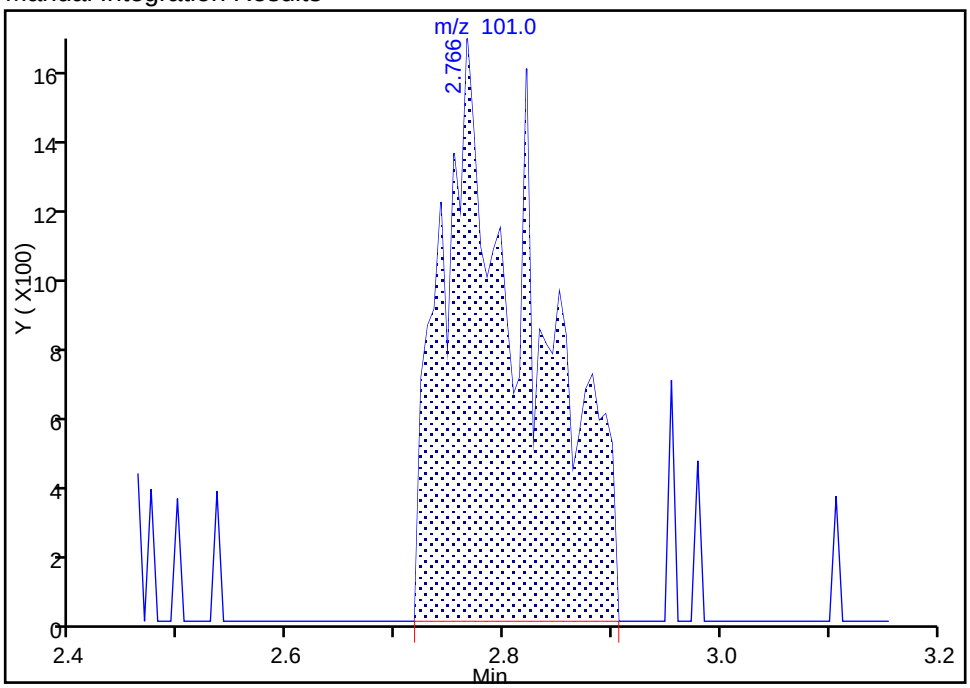
Processing Integration Results

RT: 2.77
Area: 5488
Amount: 1.172751
Amount Units: ug/L



Manual Integration Results

RT: 2.77
Area: 9705
Amount: 1.591265
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:23:17
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

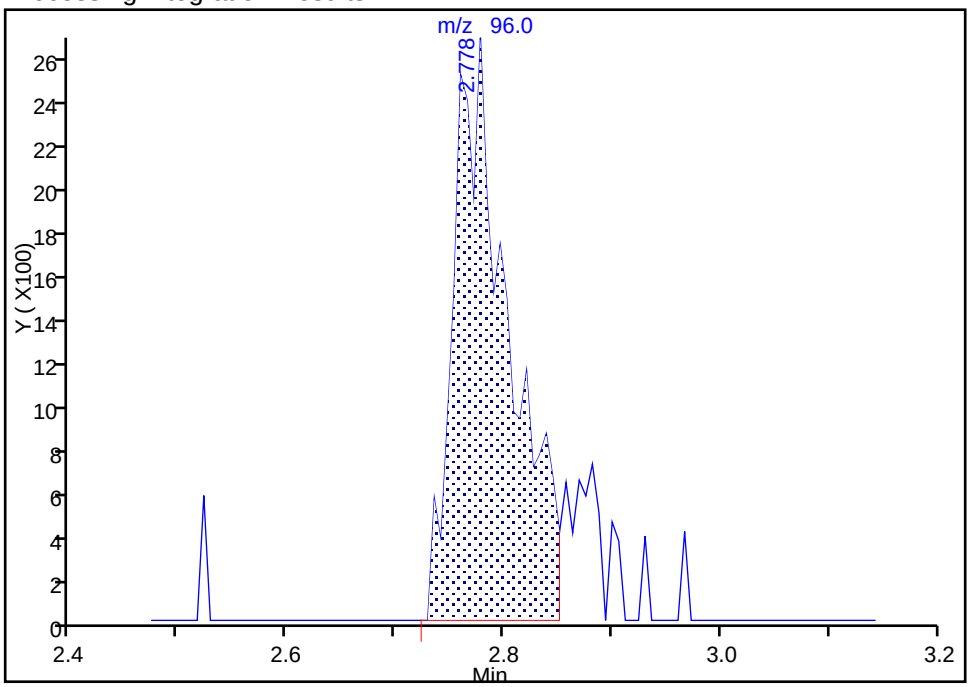
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

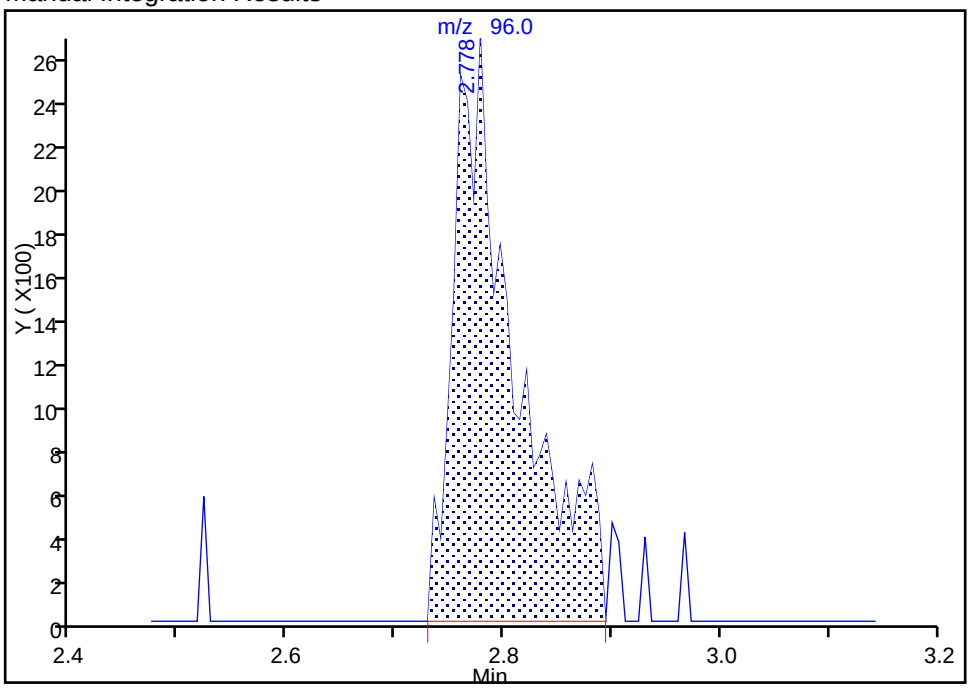
Processing Integration Results

RT: 2.78
Area: 9477
Amount: 1.590719
Amount Units: ug/L



Manual Integration Results

RT: 2.78
Area: 10746
Amount: 1.514102
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:15:13
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

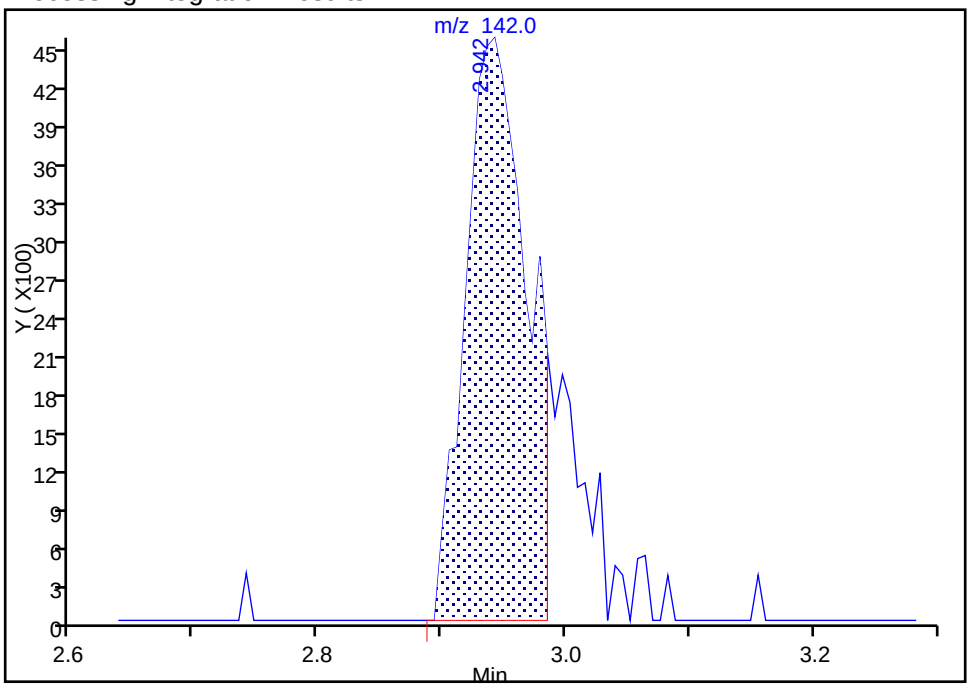
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

25 Iodomethane, CAS: 74-88-4

Signal: 1

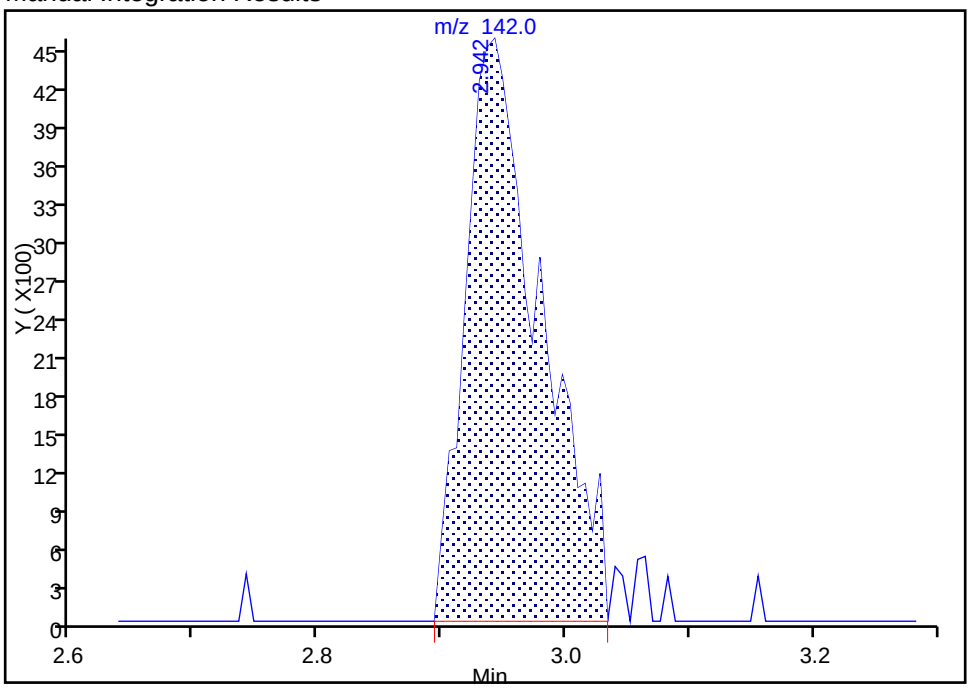
Processing Integration Results

RT: 2.94
Area: 15977
Amount: 1.428677
Amount Units: ug/L



Manual Integration Results

RT: 2.94
Area: 19349
Amount: 1.642997
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:23:26
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

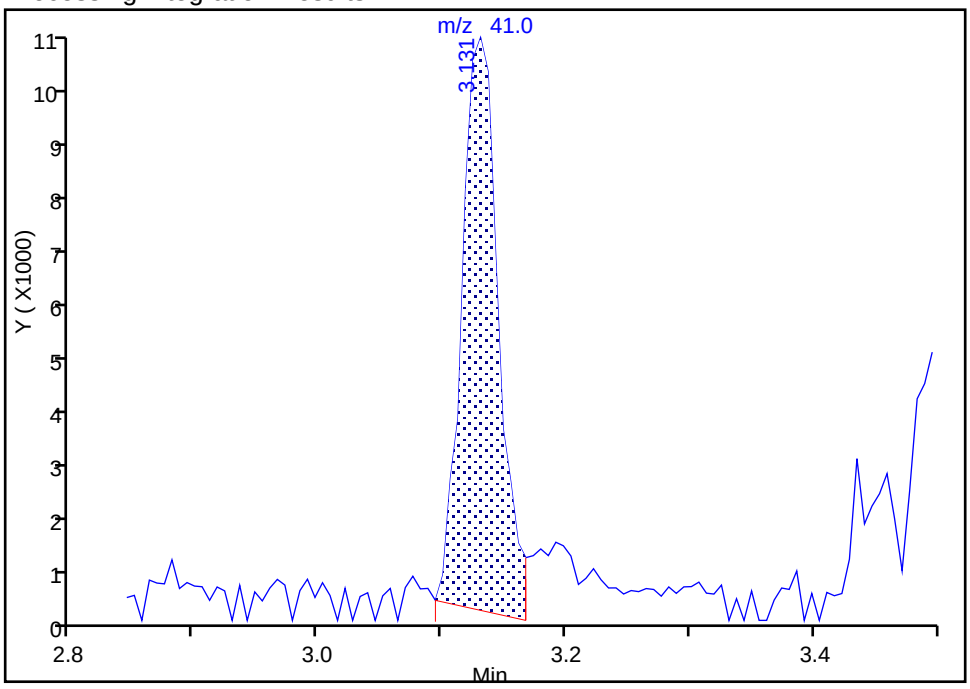
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

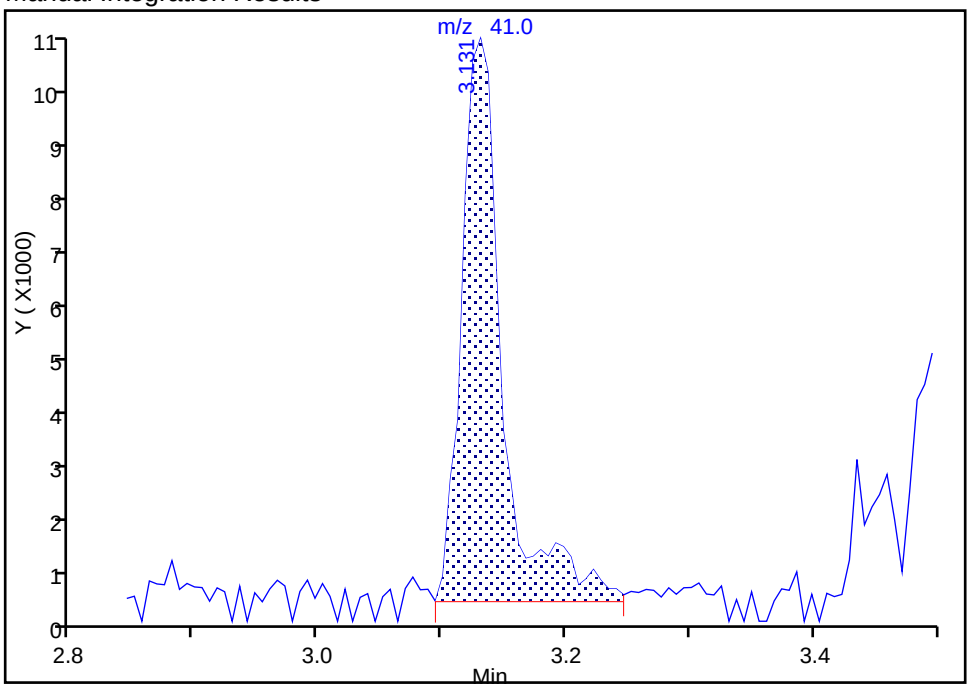
Processing Integration Results

RT: 3.13
Area: 21913
Amount: 1.638726
Amount Units: ug/L



Manual Integration Results

RT: 3.13
Area: 23950
Amount: 1.774168
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:24:15
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

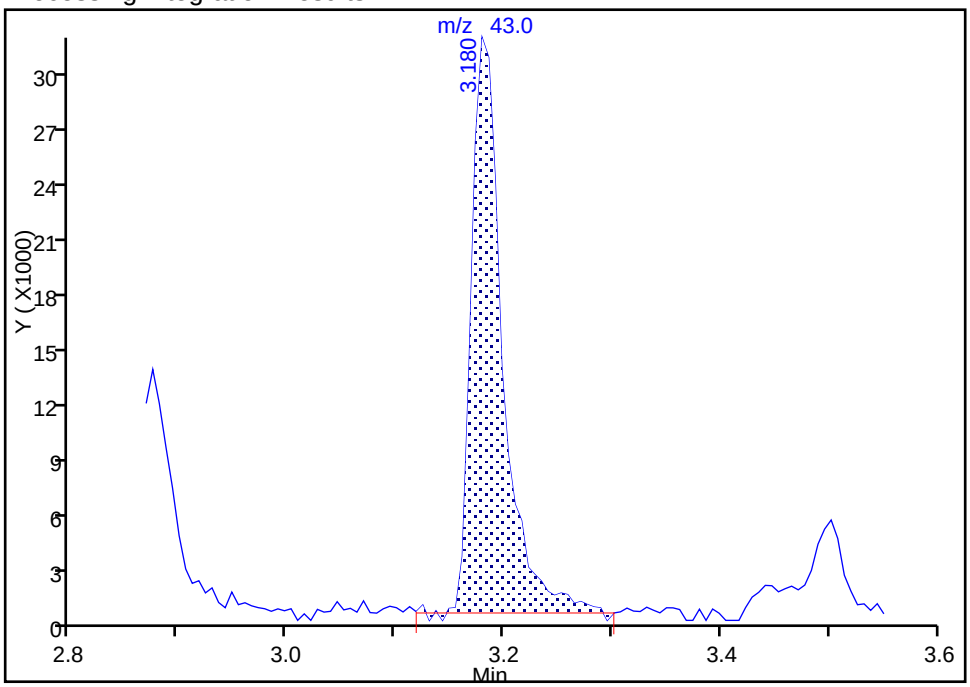
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

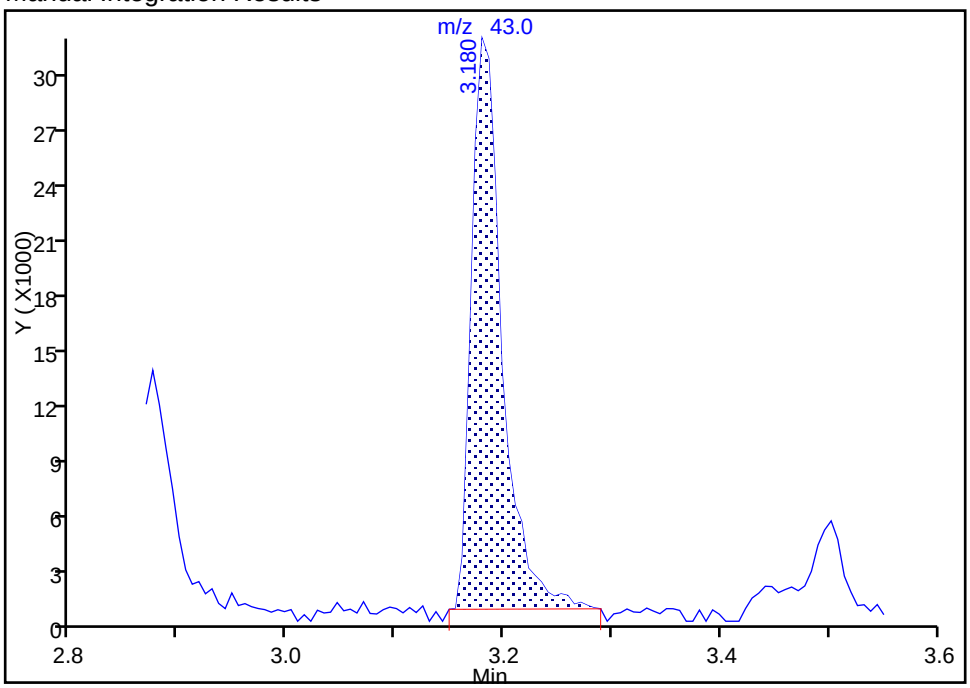
Processing Integration Results

RT: 3.18
Area: 63552
Amount: 8.265984
Amount Units: ug/L



Manual Integration Results

RT: 3.18
Area: 61466
Amount: 8.165823
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:20:07
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

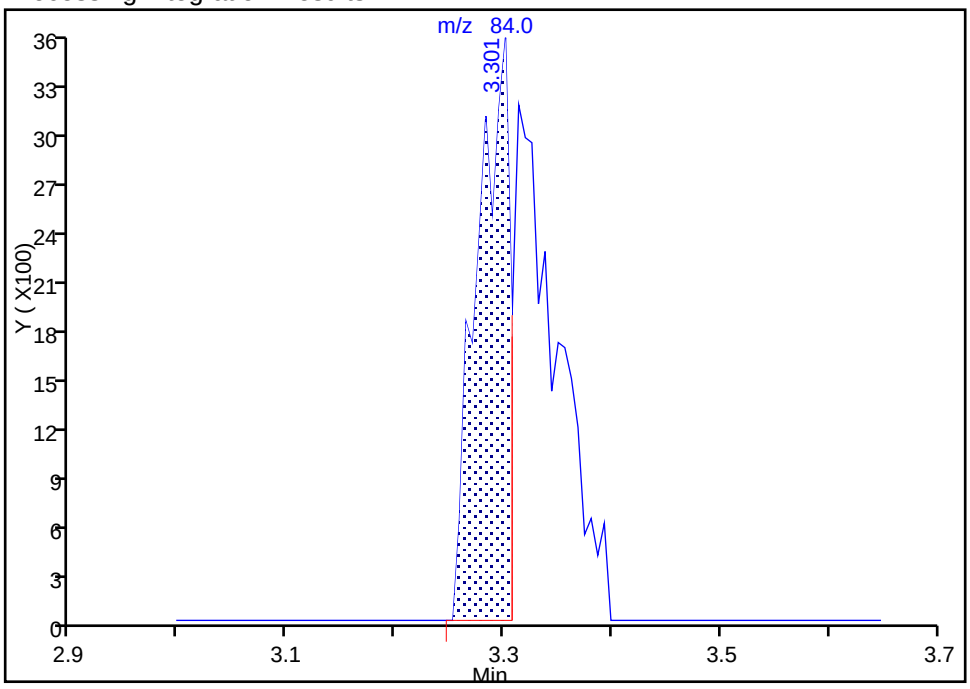
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

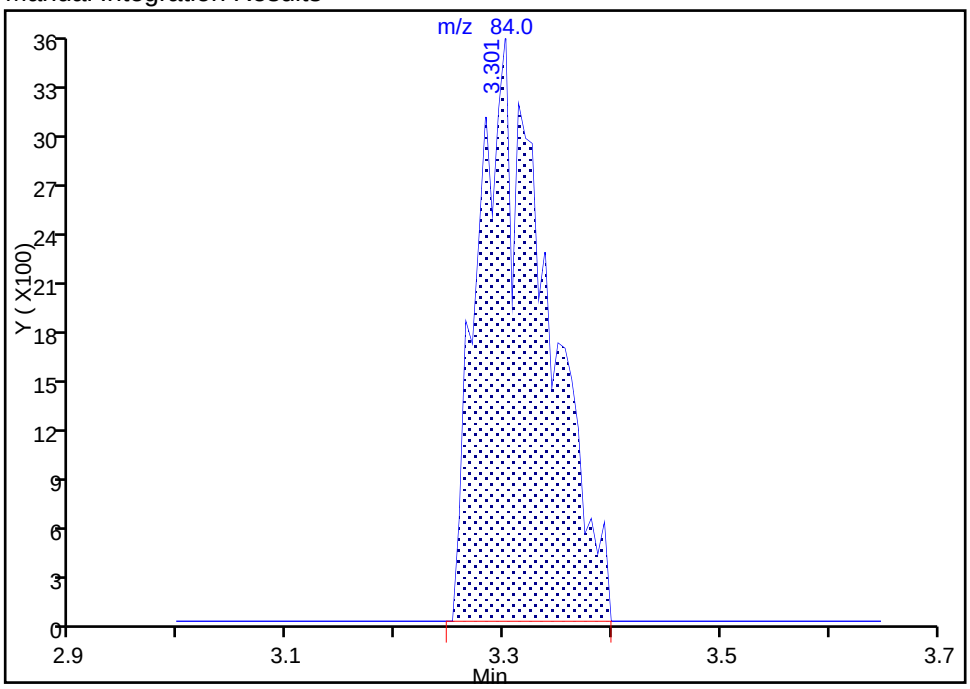
Processing Integration Results

RT: 3.30
Area: 7465
Amount: 0.852477
Amount Units: ug/L



Manual Integration Results

RT: 3.30
Area: 15742
Amount: 1.771548
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:24:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

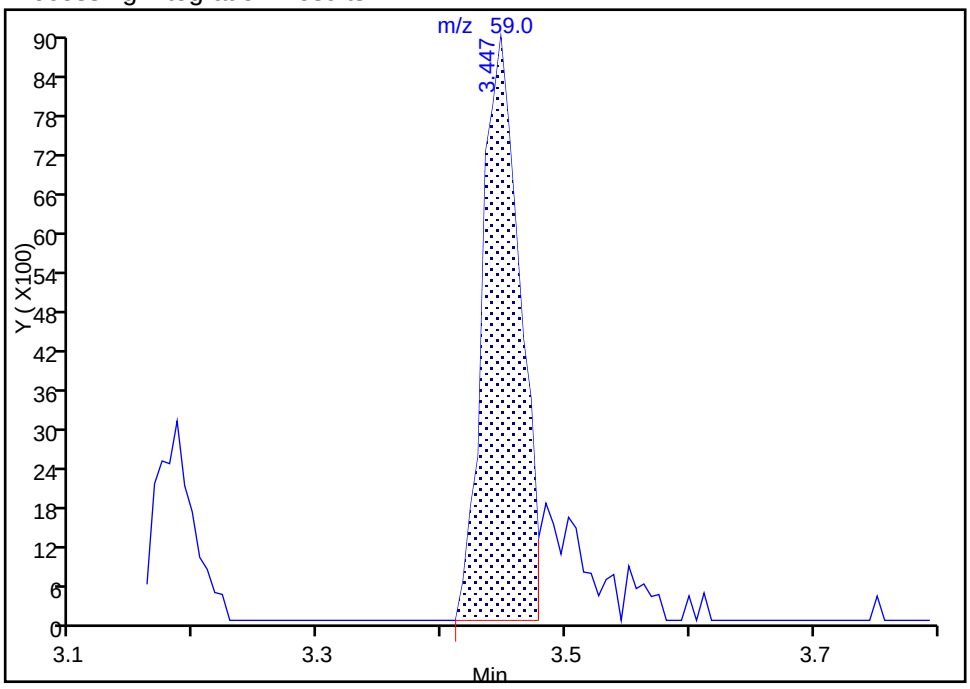
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

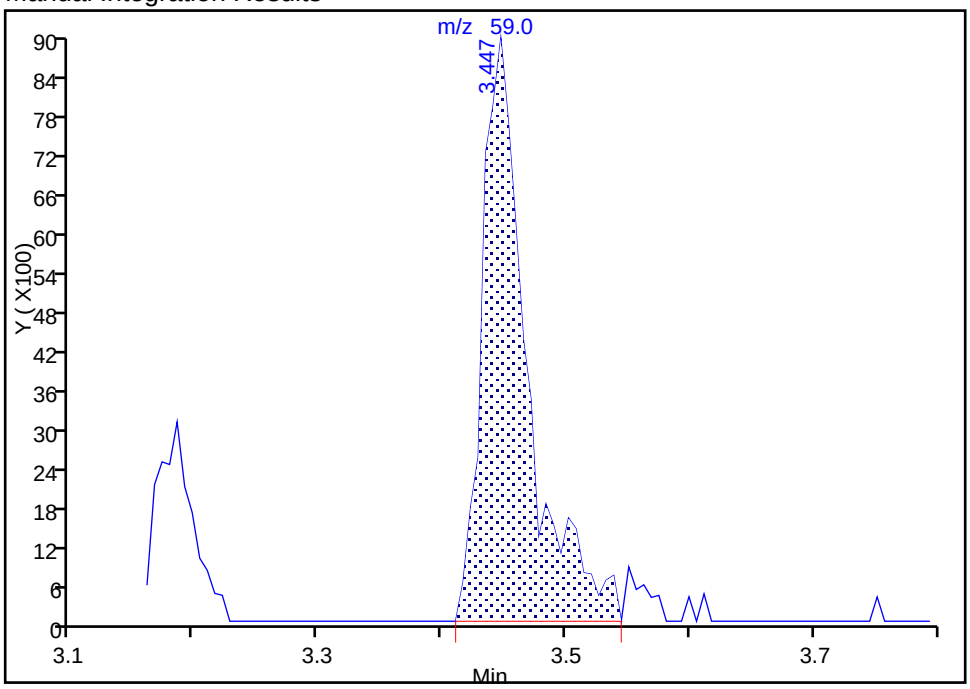
Processing Integration Results

RT: 3.45
Area: 18845
Amount: 16.060975
Amount Units: ug/L



Manual Integration Results

RT: 3.45
Area: 22664
Amount: 18.351191
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:24:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

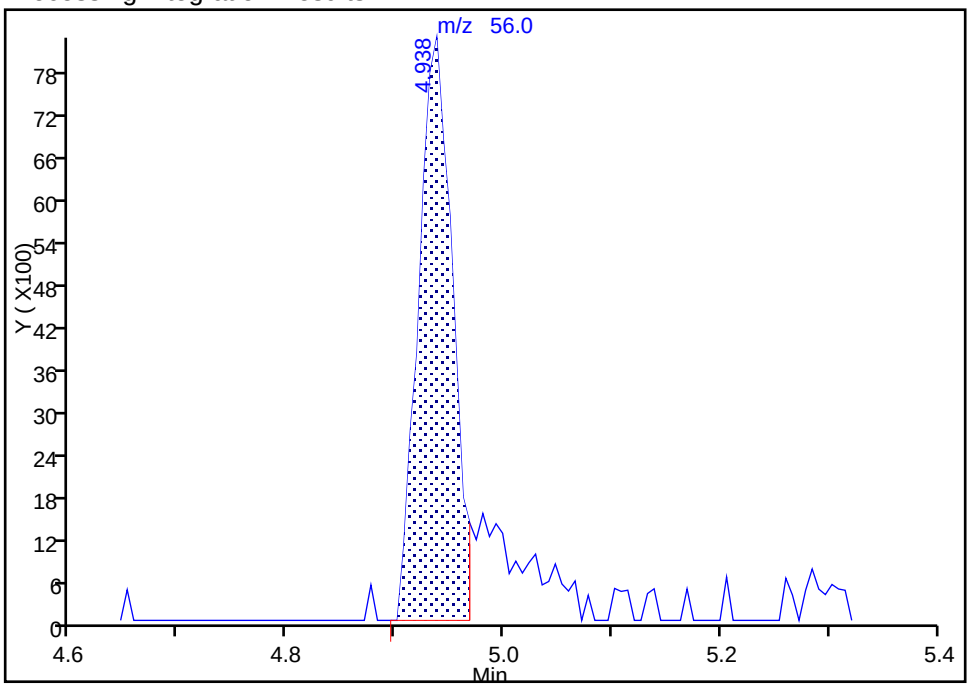
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

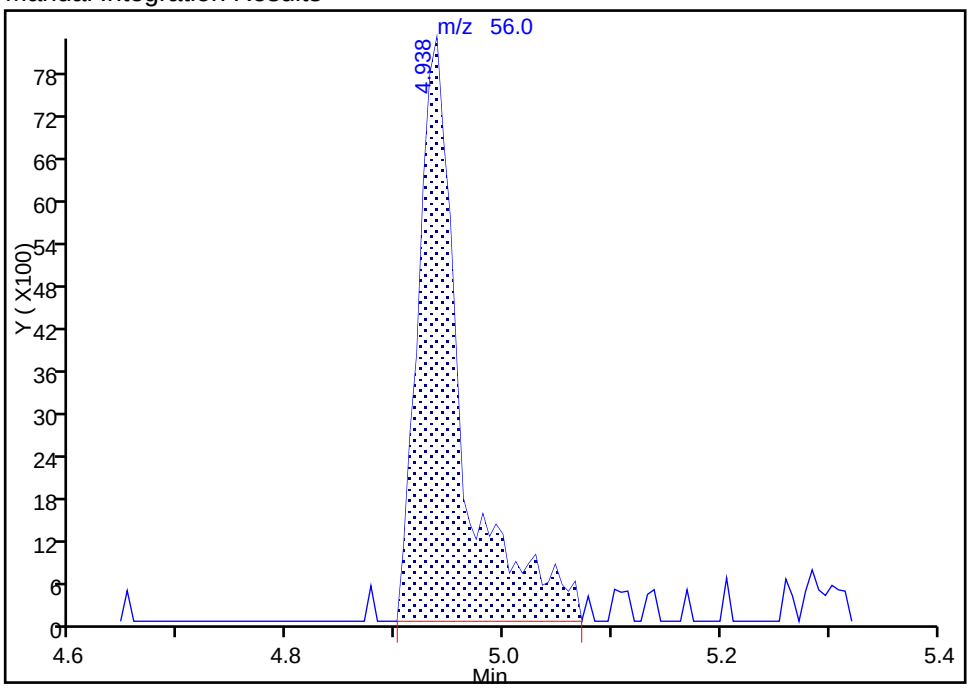
Processing Integration Results

RT: 4.94
Area: 17926
Amount: 1.364012
Amount Units: ug/L



Manual Integration Results

RT: 4.94
Area: 22929
Amount: 1.766257
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:25:19
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

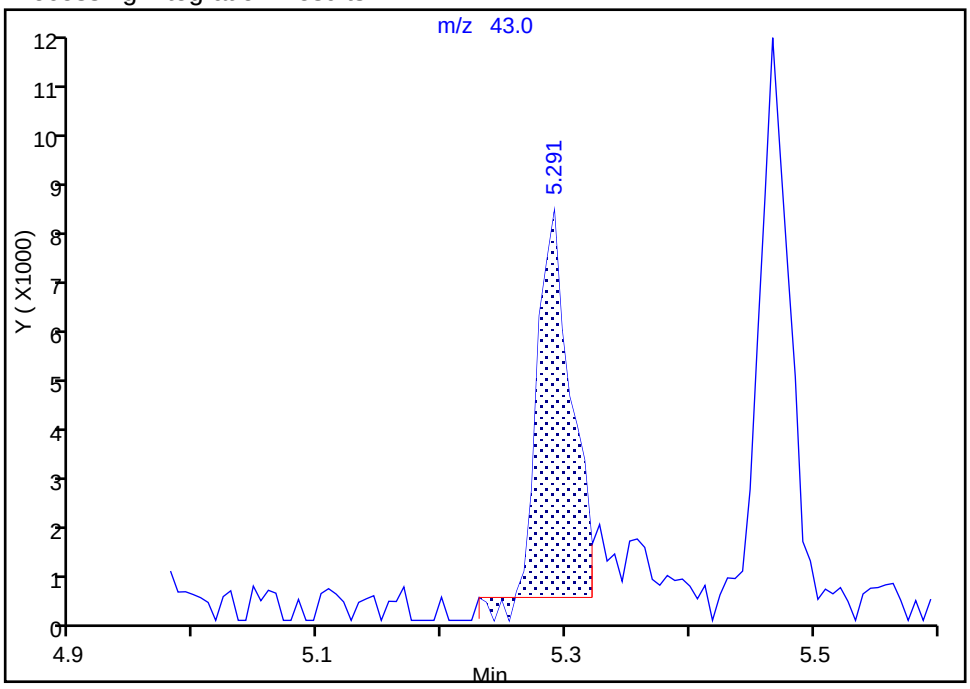
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

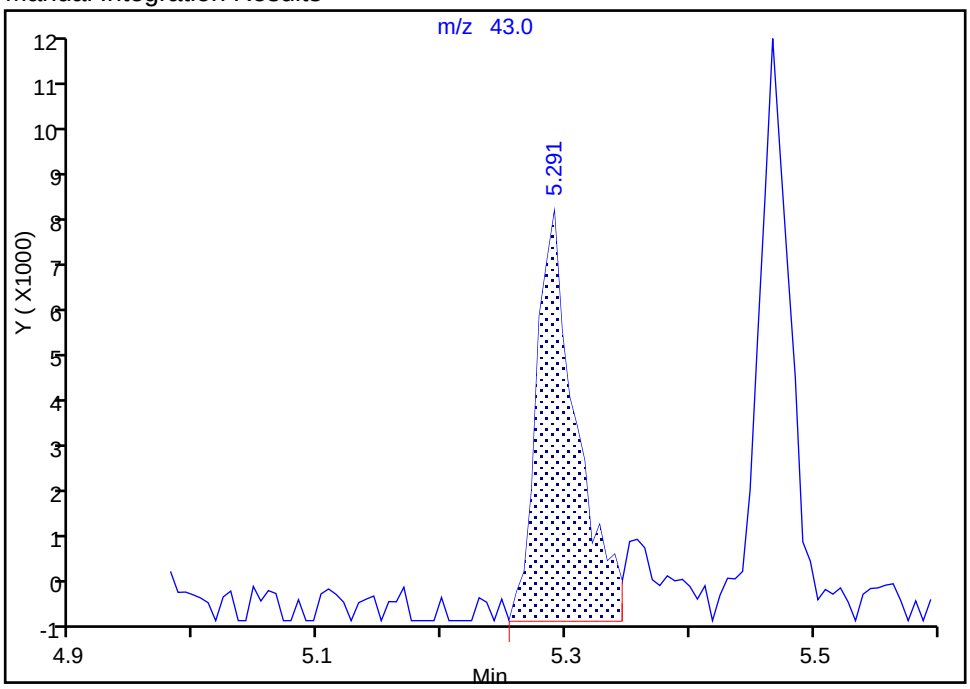
Processing Integration Results

RT: 5.29
Area: 14364
Amount: 33.896349
Amount Units: ug/L



Manual Integration Results

RT: 5.29
Area: 18648
Amount: 39.243039
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:25:36
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

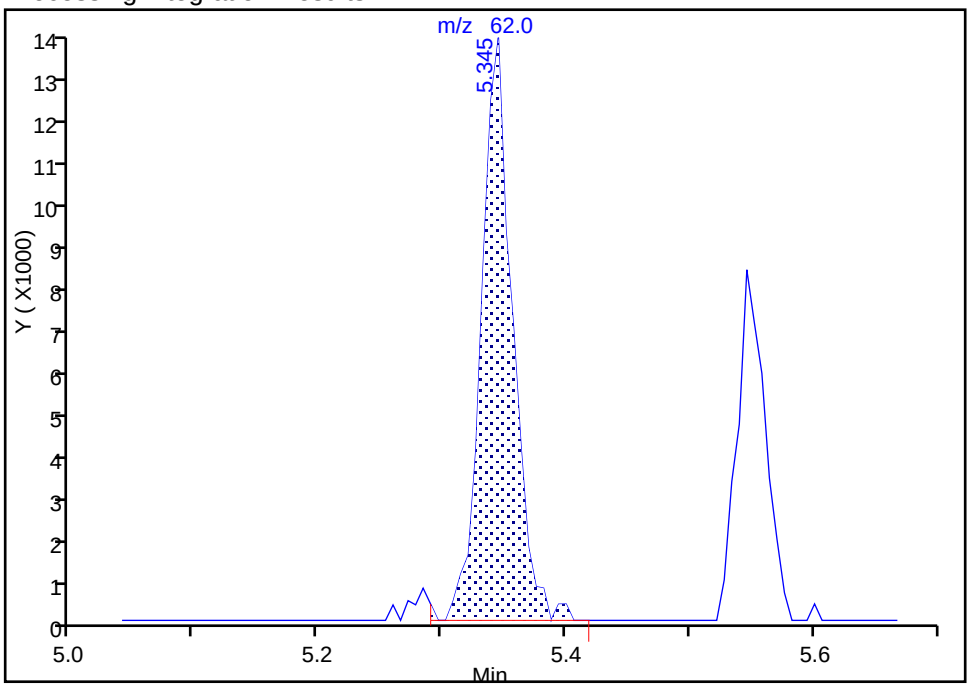
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1029.D
Injection Date: 19-Aug-2017 14:53:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 70 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

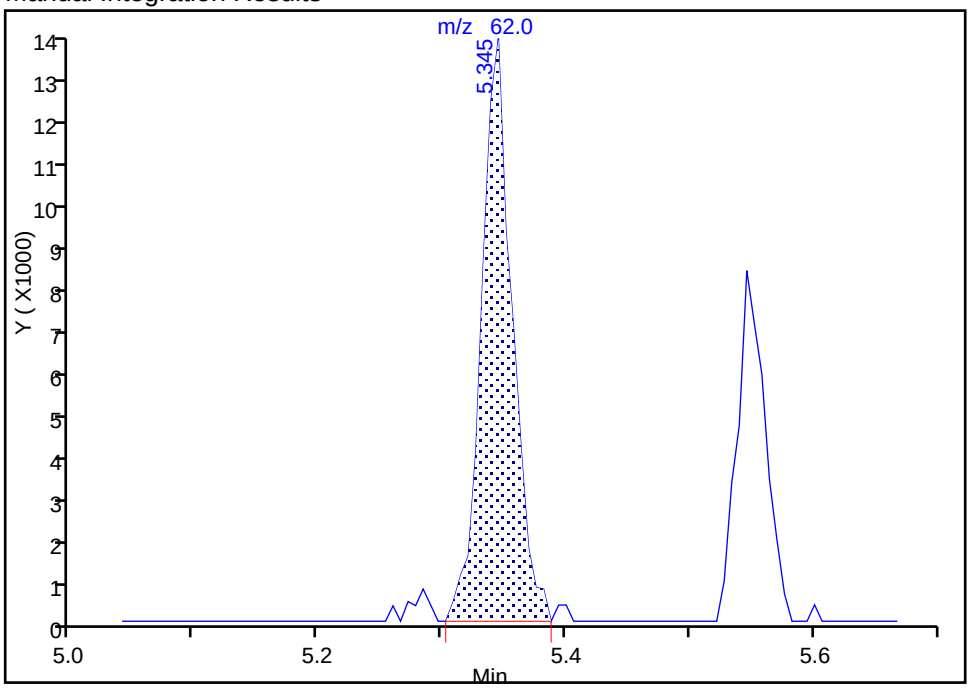
Processing Integration Results

RT: 5.35
Area: 23600
Amount: 1.766274
Amount Units: ug/L



Manual Integration Results

RT: 5.35
Area: 23188
Amount: 1.798813
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:25:46
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1030.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 19-Aug-2017 15:16:30 ALS Bottle#: 71 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0064982-011
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Aug-2017 13:39:12 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: archern Date: 20-Aug-2017 09:20:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.552	5.552	0.000	98	182288	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	85	368963	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	90	358984	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.962	4.962	0.000	79	211641	25.0	24.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.273	5.273	0.000	0	142839	25.0	24.6	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	92	897712	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	92	288388	25.0	24.8	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	92	36302	5.00	4.40	M
12 Chloromethane	50	1.495	1.495	0.000	97	48187	5.00	4.50	
13 Vinyl chloride	62	1.574	1.574	0.000	63	43236	5.00	4.46	
151 Butadiene	54	1.604	1.604	0.000	56	38437	5.00	4.08	M
14 Bromomethane	94	1.921	1.921	0.000	80	30300	5.00	4.54	
15 Chloroethane	64	2.018	2.018	0.000	67	31253	5.00	4.75	
17 Trichlorofluoromethane	101	2.237	2.237	0.000	83	53573	5.00	4.41	
16 Dichlorofluoromethane	67	2.225	2.225	0.000	74	66881	5.00	4.41	
18 Ethyl ether	59	2.535	2.535	0.000	92	37842	5.00	4.63	
20 Acrolein	56	2.711	2.711	0.000	86	33674	25.0	22.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.760	2.760	0.000	60	30697	5.00	4.94	M
22 1,1-Dichloroethene	96	2.772	2.772	0.000	70	34500	5.00	4.77	
23 Acetone	43	2.876	2.876	0.000	98	76597	25.0	23.3	M
25 Iodomethane	142	2.936	2.936	0.000	92	53524	5.00	4.46	
26 Carbon disulfide	76	2.961	2.961	0.000	98	107394	5.00	4.67	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	83	64240	5.00	4.67	M
27 Methyl acetate	43	3.180	3.180	0.000	96	173703	25.0	22.7	
30 Methylene Chloride	84	3.308	3.308	0.000	84	41656	5.00	4.60	
31 2-Methyl-2-propanol	59	3.441	3.441	0.000	96	60869	50.0	48.4	
32 Methyl tert-butyl ether	73	3.502	3.502	0.000	89	125521	5.00	4.67	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	71	37642	5.00	4.65	
33 Acrylonitrile	53	3.557	3.557	0.000	98	185692	50.0	47.9	
35 Hexane	57	3.715	3.715	0.000	89	55511	5.00	4.64	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	79	67840	5.00	4.48	
37 Vinyl acetate	43	3.989	3.989	0.000	97	153980	10.0	8.63	
44 2,2-Dichloropropane	77	4.451	4.451	0.000	86	44245	5.00	4.68	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	82	43774	5.00	4.63	
43 2-Butanone (MEK)	43	4.530	4.530	0.000	98	119385	25.0	24.6	
48 Chlorobromomethane	128	4.725	4.725	0.000	91	21494	5.00	4.66	
49 Tetrahydrofuran	42	4.774	4.774	0.000	86	30766	10.0	9.51	
50 Chloroform	83	4.804	4.804	0.000	79	68343	5.00	4.63	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	91	50848	5.00	4.40	
52 Cyclohexane	56	4.938	4.938	0.000	90	57958	5.00	4.38	
55 Carbon tetrachloride	117	5.066	5.066	0.000	74	42734	5.00	4.35	
54 1,1-Dichloropropene	75	5.072	5.072	0.000	88	51007	5.00	4.68	
57 Benzene	78	5.279	5.279	0.000	77	157591	5.00	4.69	
53 Isobutyl alcohol	43	5.285	5.285	0.000	52	52159	125.0	107.7	
58 1,2-Dichloroethane	62	5.346	5.346	0.000	73	60516	5.00	4.61	
59 n-Heptane	43	5.467	5.467	0.000	94	54020	5.00	4.25	
62 Trichloroethene	95	5.893	5.893	0.000	89	39627	5.00	4.66	
64 Methylcyclohexane	83	6.021	6.021	0.000	89	63380	5.00	4.63	
65 1,2-Dichloropropane	63	6.130	6.130	0.000	88	40761	5.00	4.66	
67 Dibromomethane	93	6.270	6.270	0.000	83	26473	5.00	4.88	
66 1,4-Dioxane	88	6.289	6.289	0.000	74	11082	100.0	101.3	
68 Dichlorobromomethane	83	6.416	6.416	0.000	83	48571	5.00	4.66	
69 2-Chloroethyl vinyl ether	63	6.702	6.702	0.000	79	26257	5.00	4.25	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	78	63146	5.00	4.69	
73 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	98	239921	25.0	24.4	
74 Toluene	92	7.134	7.134	0.000	83	103918	5.00	4.78	
77 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	95	56129	5.00	4.66	
75 Ethyl methacrylate	69	7.457	7.457	0.000	70	53812	5.00	4.85	
79 1,1,2-Trichloroethane	83	7.597	7.597	0.000	86	29497	5.00	4.61	
81 Tetrachloroethene	166	7.670	7.670	0.000	80	42876	5.00	4.62	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	91	67973	5.00	4.92	
80 2-Hexanone	43	7.828	7.828	0.000	81	175579	25.0	25.2	
83 Chlorodibromomethane	129	7.992	7.992	0.000	80	31514	5.00	4.24	
84 Ethylene Dibromide	107	8.101	8.101	0.000	87	39006	5.00	4.80	
87 Chlorobenzene	112	8.576	8.576	0.000	94	117135	5.00	4.75	
88 Ethylbenzene	91	8.673	8.673	0.000	35	189077	5.00	4.79	
89 1,1,1,2-Tetrachloroethane	131	8.679	8.679	0.000	37	36695	5.00	4.52	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	76367	5.00	4.65	
91 o-Xylene	106	9.221	9.221	0.000	97	74145	5.00	4.72	
92 Styrene	104	9.251	9.251	0.000	93	123859	5.00	4.65	
95 Bromoform	173	9.495	9.495	0.000	85	20175	5.00	4.28	
94 Isopropylbenzene	105	9.604	9.604	0.000	94	191056	5.00	4.78	
101 Bromobenzene	156	9.945	9.945	0.000	91	52052	5.00	4.87	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	83	47649	5.00	4.63	
100 1,2,3-Trichloropropane	110	10.024	10.024	0.000	44	16659	5.00	4.68	
99 N-Propylbenzene	91	10.024	10.024	0.000	97	217518	5.00	4.81	
98 trans-1,4-Dichloro-2-buten	53	10.042	10.042	0.000	37	12564	5.00	4.54	
103 2-Chlorotoluene	126	10.133	10.133	0.000	96	46004	5.00	4.79	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	84	159741	5.00	4.79	
105 4-Chlorotoluene	126	10.243	10.243	0.000	77	48251	5.00	4.82	
106 tert-Butylbenzene	134	10.517	10.517	0.000	91	35026	5.00	4.50	
107 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	76	160043	5.00	4.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	91	197064	5.00	4.75	
111 1,3-Dichlorobenzene	146	10.863	10.863	0.000	74	100015	5.00	4.94	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	95	168177	5.00	4.68	
113 1,4-Dichlorobenzene	146	10.949	10.949	0.000	92	99357	5.00	4.75	
115 n-Butylbenzene	91	11.247	11.247	0.000	95	144326	5.00	4.66	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	91	93216	5.00	4.76	
117 1,2-Dibromo-3-Chloropropan	75	12.019	12.019	0.000	47	8462	5.00	4.50	
119 1,2,4-Trichlorobenzene	180	12.695	12.695	0.000	93	60731	5.00	4.45	
120 Hexachlorobutadiene	225	12.804	12.804	0.000	84	25941	5.00	4.21	
121 Naphthalene	128	12.907	12.907	0.000	95	166604	5.00	4.77	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	93	58753	5.00	4.70	
S 124 Xylenes, Total	1				0			9.36	
S 123 Total BTEX	1				0			23.6	
S 126 1,3-Dichloropropene, Total	1				0			9.35	
S 125 1,2-Dichloroethene, Total	1				0			9.28	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00106	Amount Added:	5.00	Units: uL	
GAS CORP mix_00237	Amount Added:	5.00	Units: uL	
S_8260_IS_00257	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00209	Amount Added:	1.00	Units: uL	Run Reagent

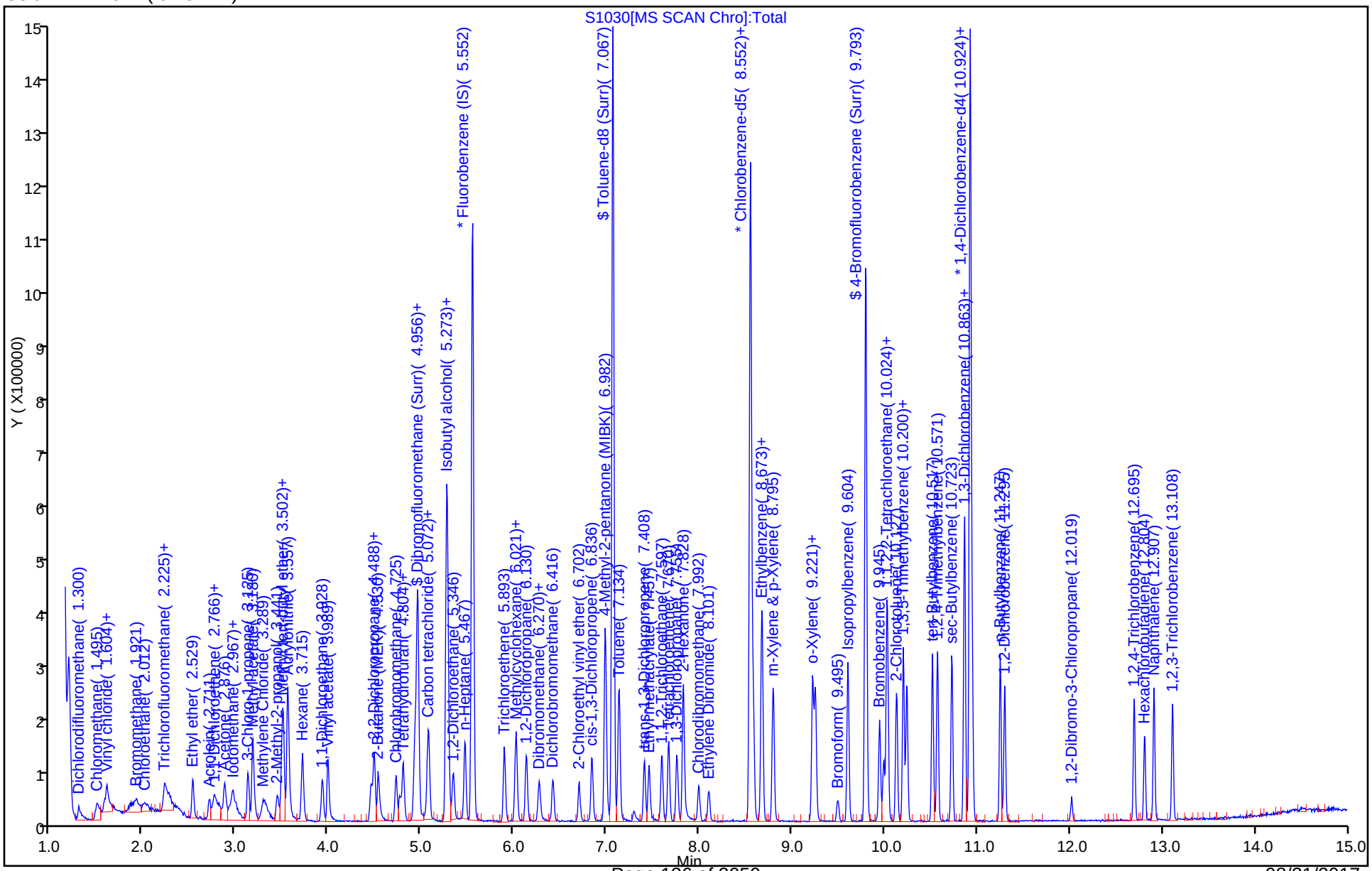
Report Date: 20-Aug-2017 13:39:15 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1030.D

Injection Date:	19-Aug-2017 15:16:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 3			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	71
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

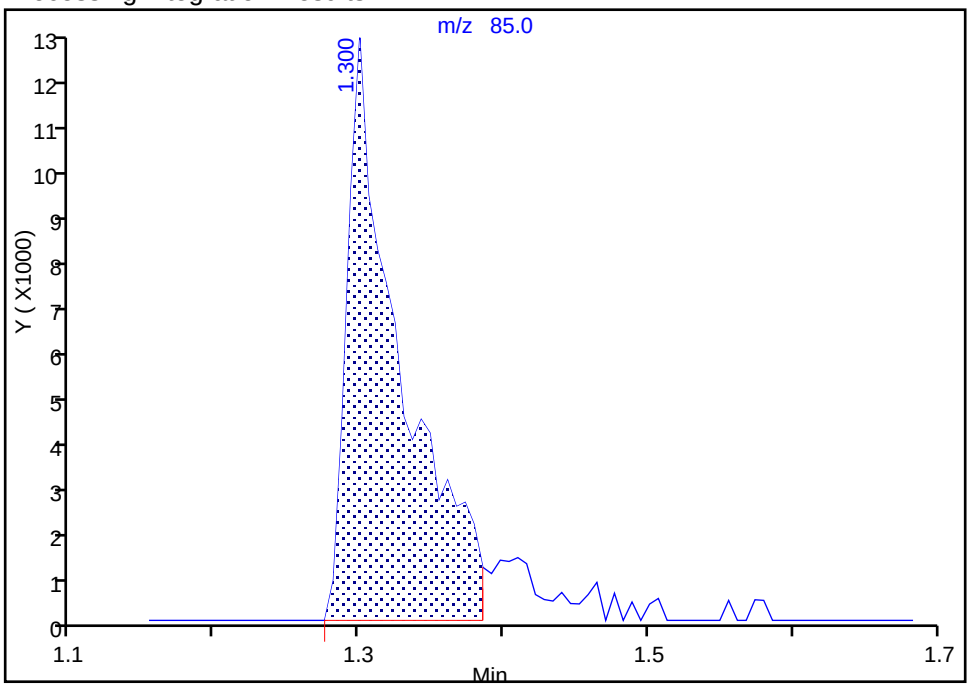
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1030.D
Injection Date: 19-Aug-2017 15:16:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 71 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

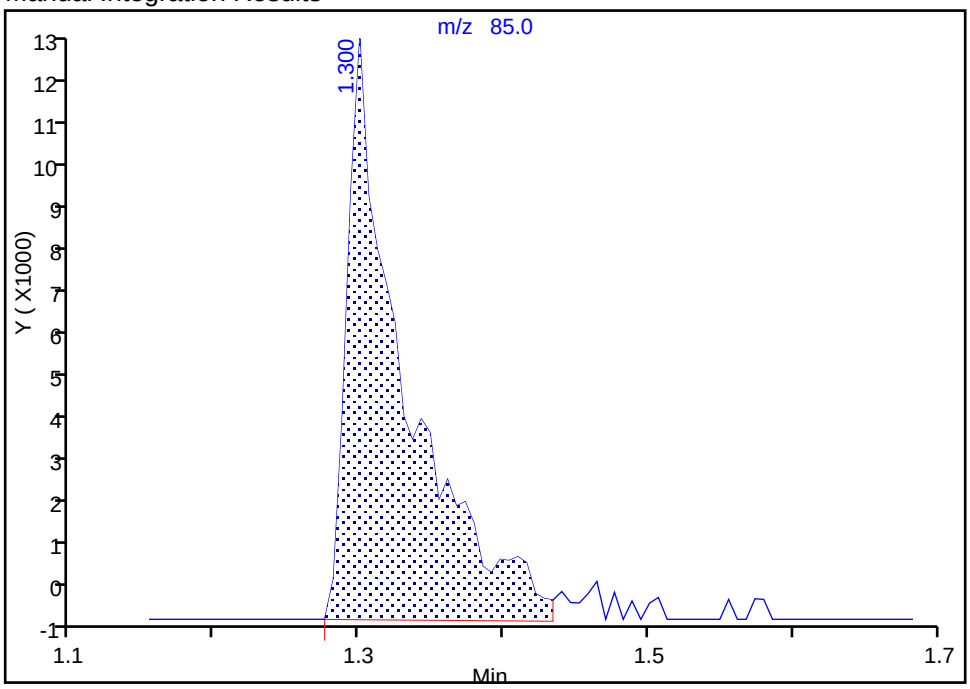
Processing Integration Results

RT: 1.30
Area: 33229
Amount: 4.104908
Amount Units: ug/L



Manual Integration Results

RT: 1.30
Area: 36302
Amount: 4.397678
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:29:42
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

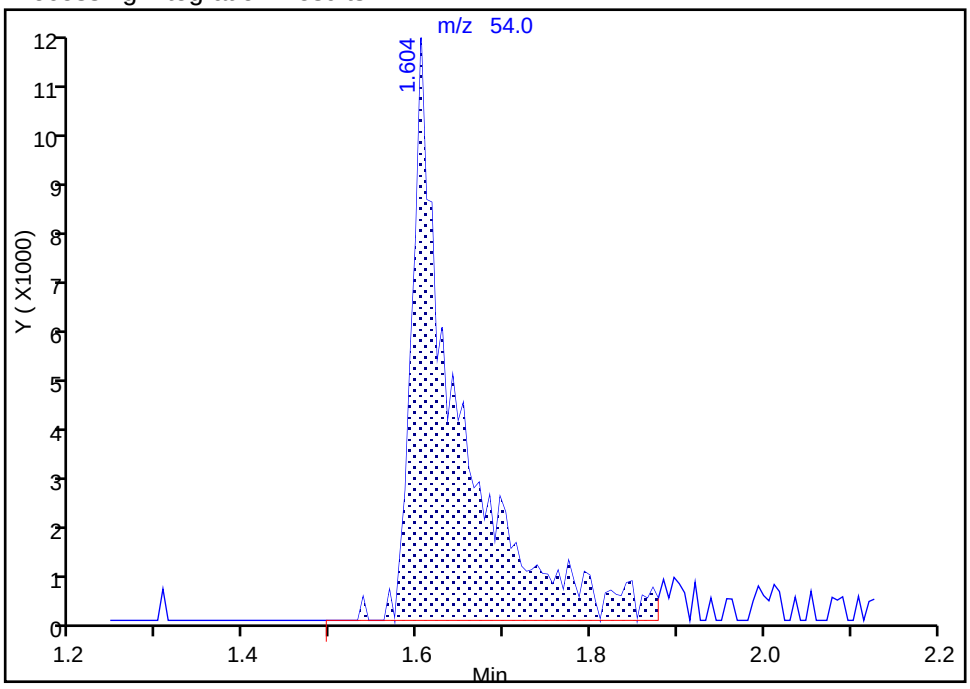
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1030.D
Injection Date: 19-Aug-2017 15:16:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 71 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

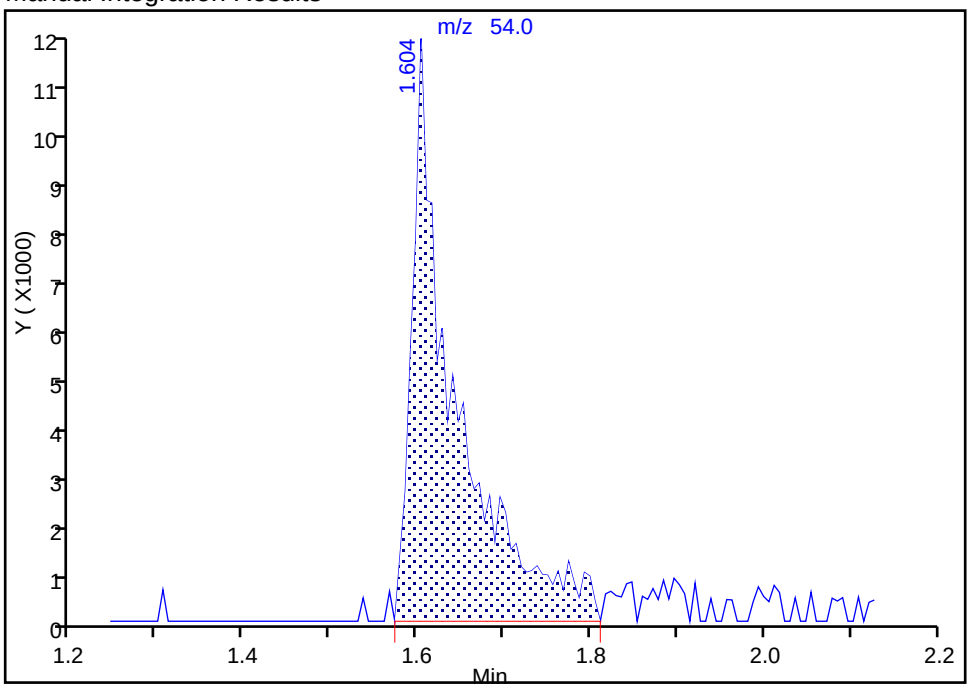
Processing Integration Results

RT: 1.60
Area: 40835
Amount: 4.539314
Amount Units: ug/L



Manual Integration Results

RT: 1.60
Area: 38437
Amount: 4.082651
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:13:29
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

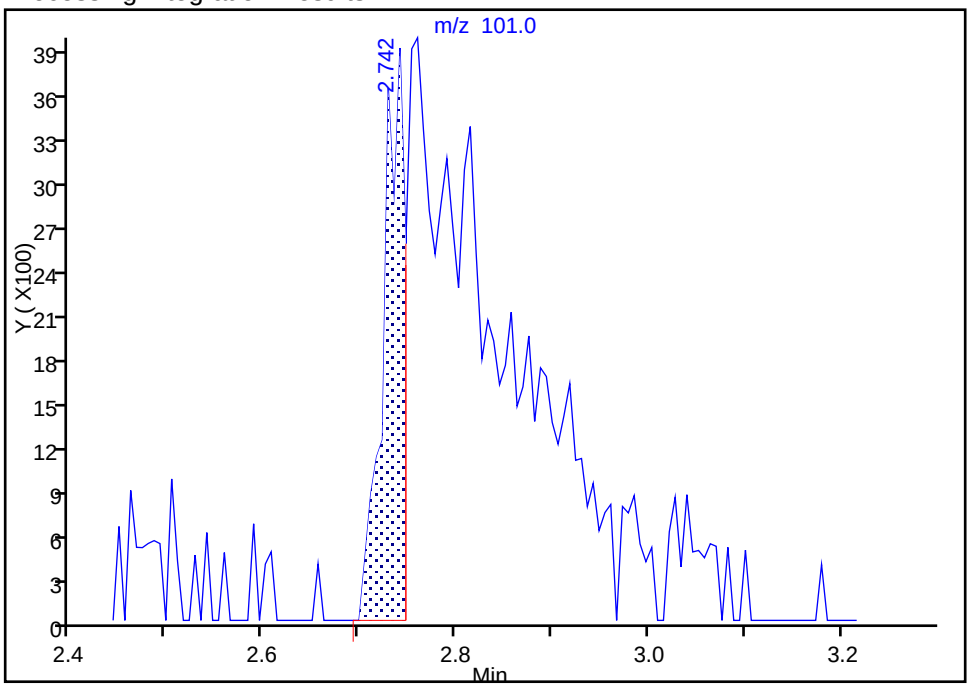
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1030.D
Injection Date: 19-Aug-2017 15:16:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 71 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

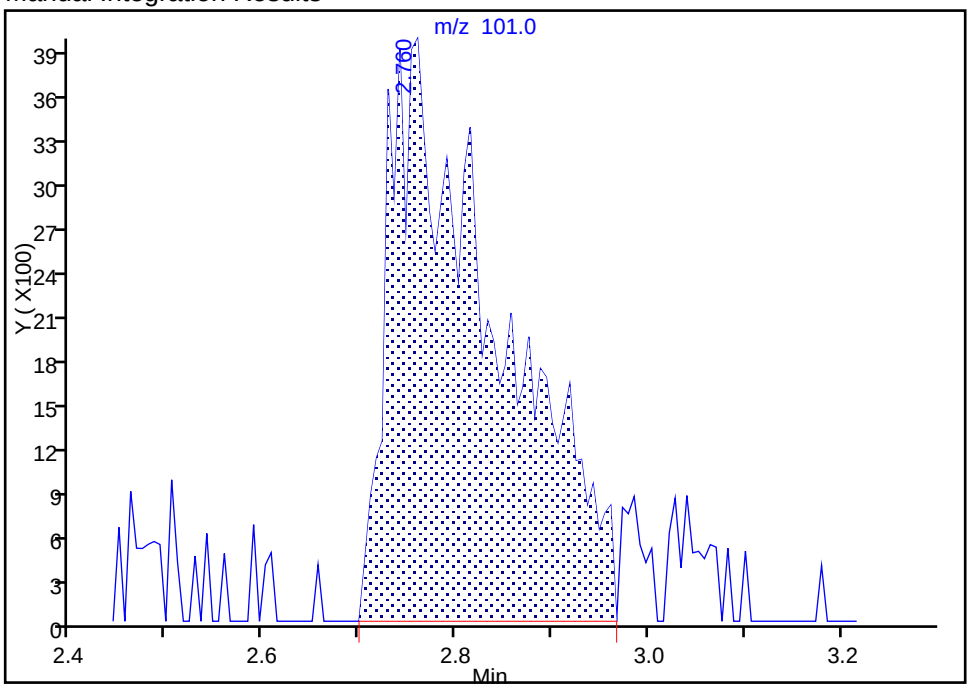
Processing Integration Results

RT: 2.74
Area: 5944
Amount: 1.180254
Amount Units: ug/L



Manual Integration Results

RT: 2.76
Area: 30697
Amount: 4.940192
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:32:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

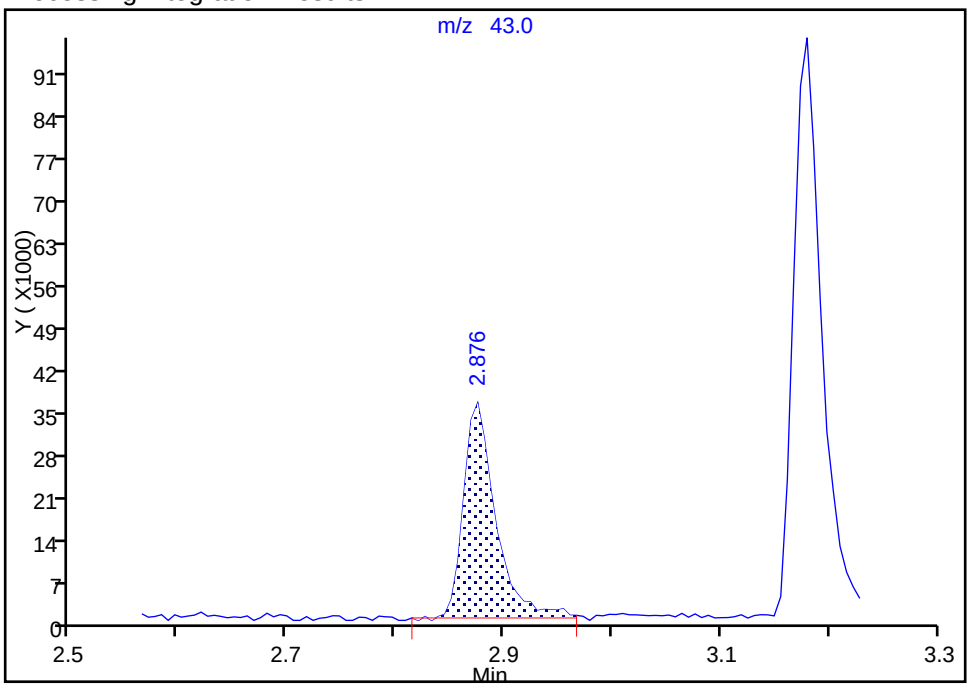
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1030.D
Injection Date: 19-Aug-2017 15:16:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 71 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

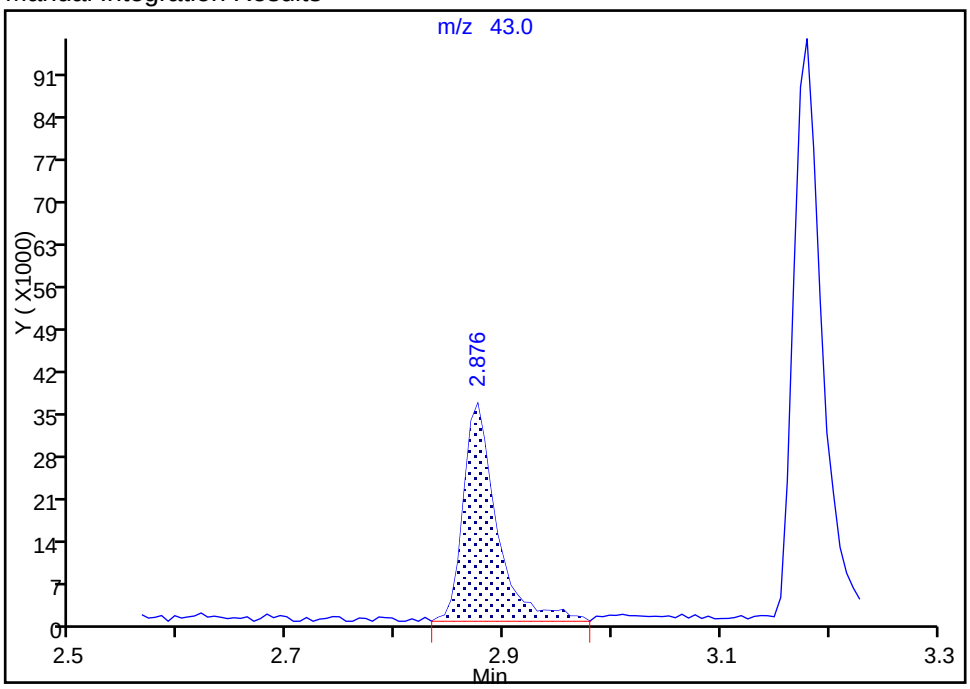
Processing Integration Results

RT: 2.88
Area: 72954
Amount: 22.270550
Amount Units: ug/L



Manual Integration Results

RT: 2.88
Area: 76597
Amount: 23.279940
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:32:50
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

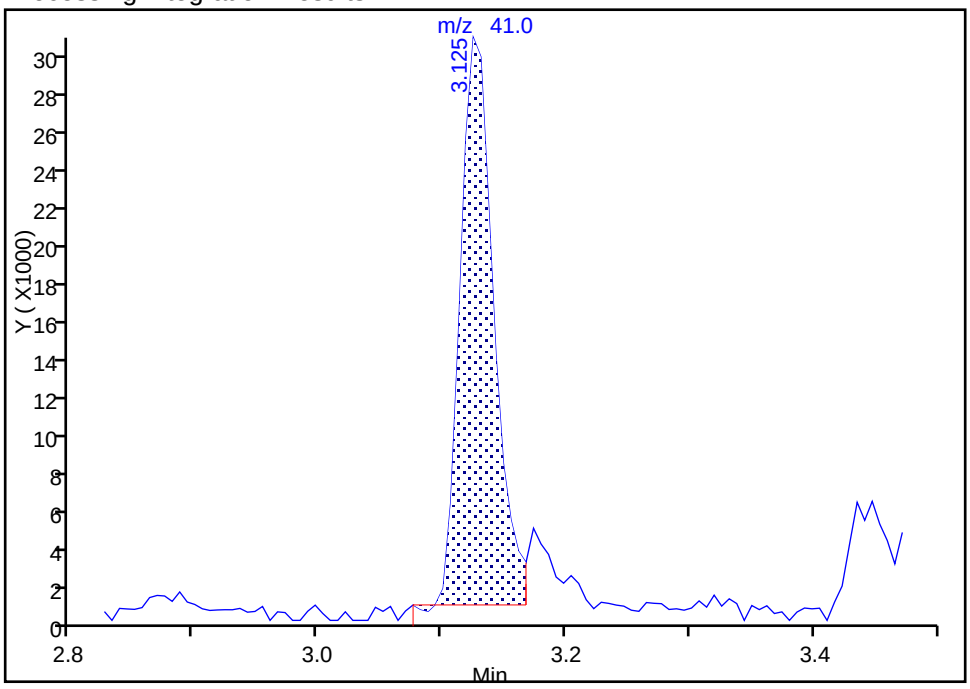
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1030.D
Injection Date: 19-Aug-2017 15:16:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 71 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

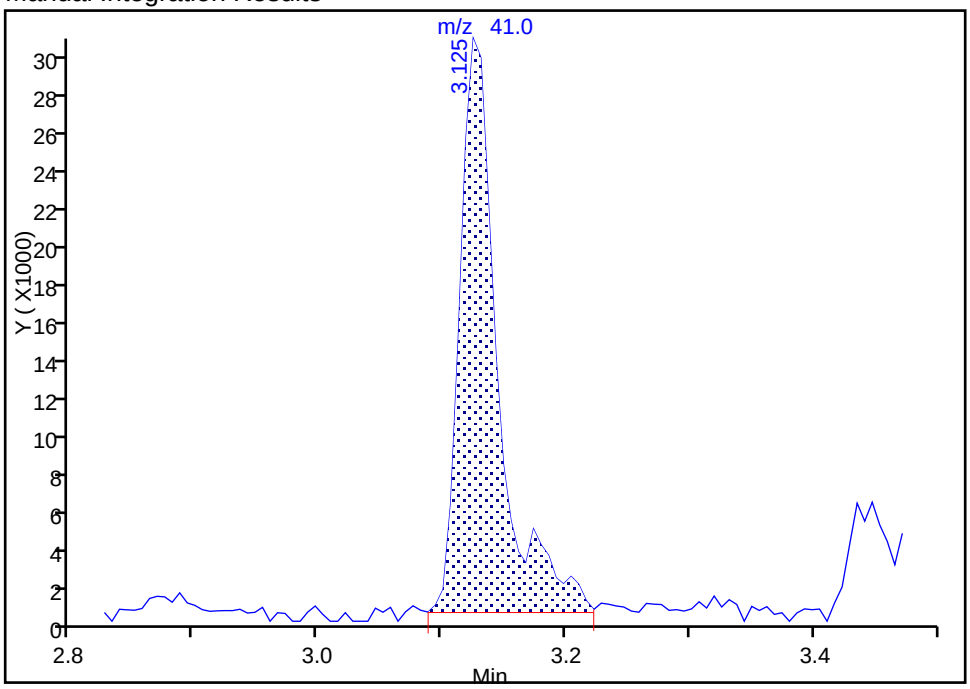
Processing Integration Results

RT: 3.13
Area: 55709
Amount: 4.154159
Amount Units: ug/L



Manual Integration Results

RT: 3.13
Area: 64240
Amount: 4.670845
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:23:59
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1031.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 19-Aug-2017 15:39:30 ALS Bottle#: 72 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0064982-012
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Aug-2017 13:39:17 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: archern Date: 20-Aug-2017 09:20:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.552	5.552	0.000	98	181349	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	87	378726	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	84	372073	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.956	4.962	-0.006	81	214712	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.273	-0.007	0	144047	25.0	24.9	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	91	904609	25.0	24.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	91	299666	25.0	25.1	
10 Dichlorodifluoromethane	85	1.306	1.300	0.006	93	76768	10.0	9.35	
12 Chloromethane	50	1.501	1.495	0.006	89	96965	10.0	9.09	
13 Vinyl chloride	62	1.580	1.574	0.006	65	88185	10.0	9.14	
151 Butadiene	54	1.604	1.604	0.000	66	78764	10.0	8.41	
14 Bromomethane	94	1.914	1.921	-0.007	85	62815	10.0	9.46	M
15 Chloroethane	64	2.012	2.018	-0.006	92	64243	10.0	10.3	
16 Dichlorofluoromethane	67	2.231	2.225	0.006	78	141779	10.0	9.41	
17 Trichlorofluoromethane	101	2.243	2.237	0.006	70	113181	10.0	9.36	
18 Ethyl ether	59	2.529	2.535	-0.006	90	81787	10.0	10.1	
20 Acrolein	56	2.705	2.711	-0.006	92	73586	50.0	49.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.754	2.760	-0.006	65	58070	10.0	9.39	M
22 1,1-Dichloroethene	96	2.772	2.772	0.000	81	71952	10.0	10.0	
23 Acetone	43	2.876	2.876	0.000	100	152548	50.0	46.6	
25 Iodomethane	142	2.936	2.936	0.000	93	120191	10.0	10.1	
26 Carbon disulfide	76	2.967	2.961	0.006	99	221443	10.0	9.67	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	85	131912	10.0	9.64	
27 Methyl acetate	43	3.174	3.180	-0.006	96	381772	50.0	50.0	
30 Methylene Chloride	84	3.301	3.308	-0.007	90	87735	10.0	9.74	
31 2-Methyl-2-propanol	59	3.441	3.441	0.000	95	131668	100.0	105.2	M
32 Methyl tert-butyl ether	73	3.496	3.502	-0.006	87	266404	10.0	9.95	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	76	82872	10.0	10.3	
33 Acrylonitrile	53	3.557	3.557	0.000	98	403555	100.0	104.6	
35 Hexane	57	3.715	3.715	0.000	92	115430	10.0	9.69	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	85	151017	10.0	10.0	
37 Vinyl acetate	43	3.989	3.989	0.000	97	355564	20.0	20.0	
44 2,2-Dichloropropane	77	4.457	4.451	0.006	89	92518	10.0	9.85	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	69	94893	10.0	10.1	
43 2-Butanone (MEK)	43	4.530	4.530	0.000	94	243633	50.0	50.5	
48 Chlorobromomethane	128	4.725	4.725	0.000	96	47222	10.0	10.3	
49 Tetrahydrofuran	42	4.762	4.774	-0.012	84	66514	20.0	20.7	
50 Chloroform	83	4.804	4.804	0.000	79	142976	10.0	9.74	
51 1,1,1-Trichloroethane	97	4.926	4.920	0.006	93	109450	10.0	9.51	
52 Cyclohexane	56	4.932	4.938	-0.006	92	125342	10.0	9.53	
55 Carbon tetrachloride	117	5.066	5.066	0.000	86	92762	10.0	9.50	
54 1,1-Dichloropropene	75	5.078	5.072	0.006	91	106745	10.0	9.84	
57 Benzene	78	5.279	5.279	0.000	93	334010	10.0	10.0	
53 Isobutyl alcohol	43	5.285	5.285	0.000	54	116545	250.0	242.0	
58 1,2-Dichloroethane	62	5.346	5.346	0.000	78	130562	10.0	10.0	
59 n-Heptane	43	5.467	5.467	0.000	92	113695	10.0	9.00	
62 Trichloroethene	95	5.893	5.893	0.000	91	83221	10.0	9.85	
64 Methylcyclohexane	83	6.021	6.021	0.000	92	130042	10.0	9.55	
65 1,2-Dichloropropane	63	6.130	6.130	0.000	86	87821	10.0	10.1	
67 Dibromomethane	93	6.270	6.270	0.000	84	54293	10.0	10.1	
66 1,4-Dioxane	88	6.288	6.289	-0.001	75	24668	200.0	201.4	
68 Dichlorobromomethane	83	6.422	6.416	0.006	89	101882	10.0	9.82	
69 2-Chloroethyl vinyl ether	63	6.702	6.702	0.000	92	62879	10.0	10.2	
72 cis-1,3-Dichloropropene	75	6.842	6.836	0.006	90	134490	10.0	10.0	
73 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	97	518872	50.0	51.5	
74 Toluene	92	7.134	7.134	0.000	92	211920	10.0	9.49	
77 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	91	127747	10.0	10.3	
75 Ethyl methacrylate	69	7.450	7.457	-0.007	68	117620	10.0	10.3	
79 1,1,2-Trichloroethane	83	7.590	7.597	-0.006	86	65001	10.0	9.90	
81 Tetrachloroethene	166	7.669	7.670	-0.001	94	94807	10.0	9.95	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	95	141351	10.0	9.97	
80 2-Hexanone	43	7.822	7.828	-0.006	96	380990	50.0	53.2	
83 Chlorodibromomethane	129	7.992	7.992	0.000	87	72797	10.0	9.53	
84 Ethylene Dibromide	107	8.101	8.101	0.000	96	84061	10.0	10.1	
87 Chlorobenzene	112	8.582	8.576	0.006	93	250496	10.0	9.89	
88 Ethylbenzene	91	8.673	8.673	0.000	47	399626	10.0	9.87	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.679	-0.006	39	79045	10.0	9.48	
90 m-Xylene & p-Xylene	106	8.801	8.795	0.006	0	163036	10.0	9.67	
91 o-Xylene	106	9.221	9.221	0.000	96	165530	10.0	10.3	
92 Styrene	104	9.251	9.251	0.000	94	273769	10.0	10.0	
95 Bromoform	173	9.495	9.495	0.000	91	44195	10.0	9.14	
94 Isopropylbenzene	105	9.604	9.604	0.000	96	405592	10.0	9.79	
101 Bromobenzene	156	9.945	9.945	0.000	92	111343	10.0	10.0	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	82	107234	10.0	10.1	
99 N-Propylbenzene	91	10.024	10.024	0.000	98	459334	10.0	9.79	
100 1,2,3-Trichloropropane	110	10.024	10.024	0.000	45	38236	10.0	10.4	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.042	-0.006	36	29533	10.0	10.3	M
103 2-Chlorotoluene	126	10.127	10.133	-0.006	96	97898	10.0	9.84	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	84	340050	10.0	9.84	
105 4-Chlorotoluene	126	10.243	10.243	0.000	94	104742	10.0	10.1	
106 tert-Butylbenzene	134	10.517	10.517	0.000	87	76423	10.0	9.48	
107 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	37	356366	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	92	424051	10.0	9.87	
111 1,3-Dichlorobenzene	146	10.857	10.863	-0.006	81	205045	10.0	9.76	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	96	364102	10.0	9.78	
113 1,4-Dichlorobenzene	146	10.942	10.949	-0.007	90	209551	10.0	9.67	
115 n-Butylbenzene	91	11.247	11.247	0.000	95	313069	10.0	9.75	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	92	201464	10.0	9.92	
117 1,2-Dibromo-3-Chloropropan	75	12.019	12.019	0.000	66	18065	10.0	9.27	
119 1,2,4-Trichlorobenzene	180	12.694	12.695	-0.001	93	137025	10.0	9.69	
120 Hexachlorobutadiene	225	12.810	12.804	0.006	92	58129	10.0	9.10	
121 Naphthalene	128	12.907	12.907	0.000	97	365061	10.0	10.1	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	95	129345	10.0	9.98	
S 126 1,3-Dichloropropene, Total	1				0			20.4	
S 125 1,2-Dichloroethene, Total	1				0			20.4	
S 124 Xylenes, Total	1				0			19.9	
S 123 Total BTEX	1				0			49.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00106	Amount Added:	5.00	Units: uL	
GAS CORP mix_00237	Amount Added:	5.00	Units: uL	
S_8260_IS_00257	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00209	Amount Added:	1.00	Units: uL	Run Reagent

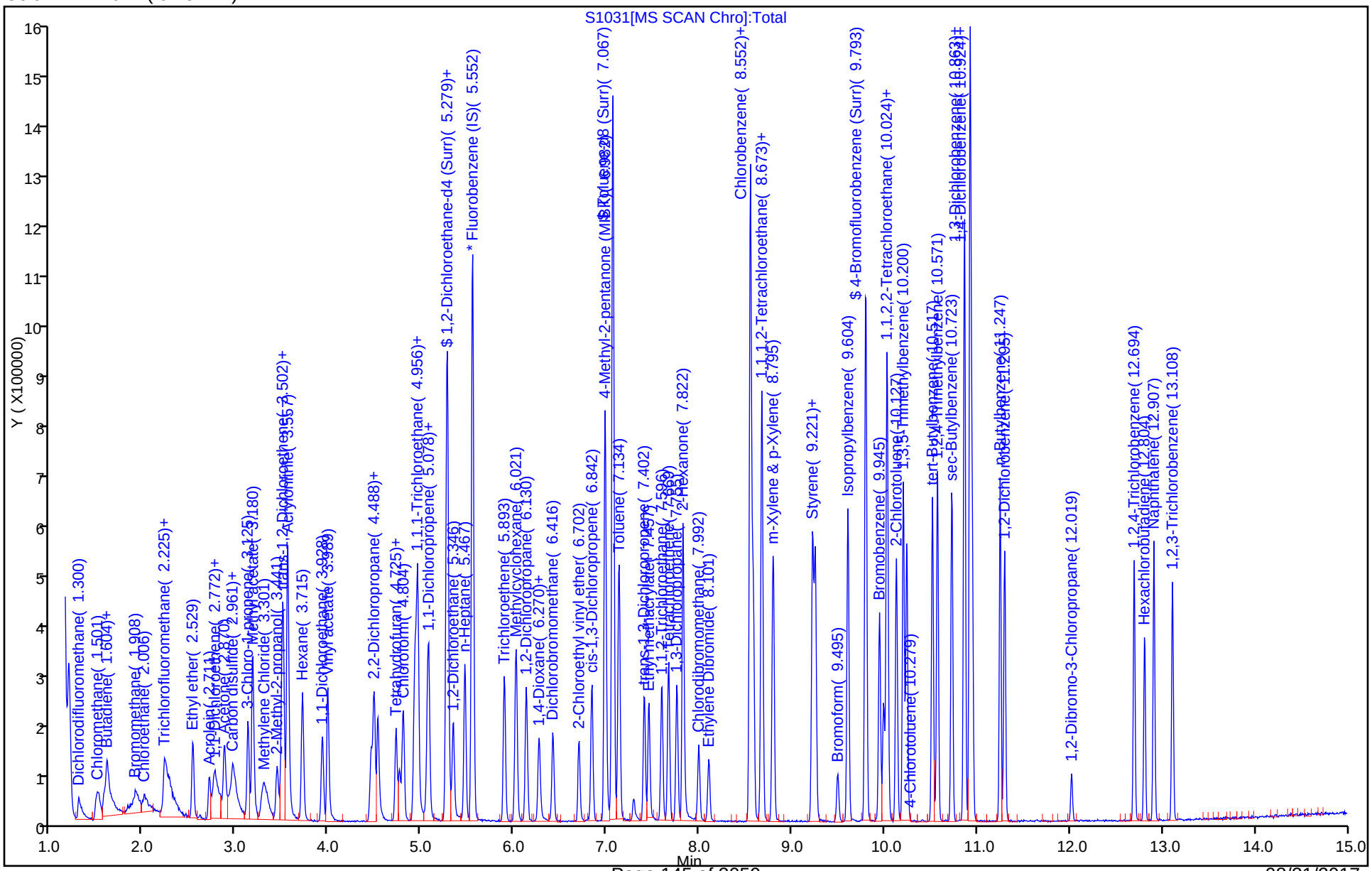
Report Date: 20-Aug-2017 13:39:19 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1031.D

Injection Date:	19-Aug-2017 15:39:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 4			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	72
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

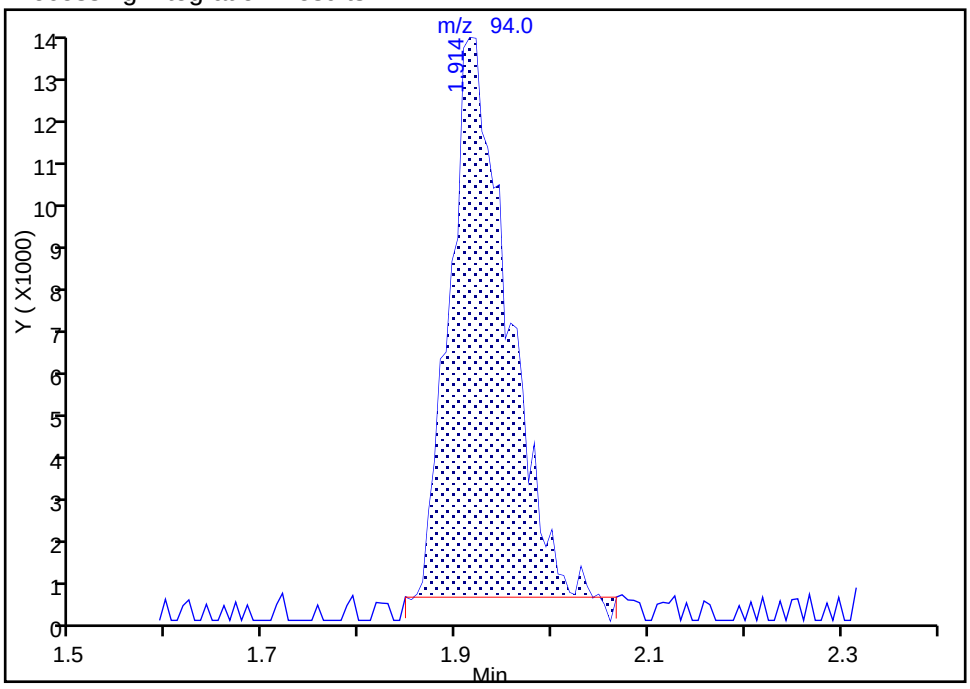
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1031.D
Injection Date: 19-Aug-2017 15:39:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 72 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

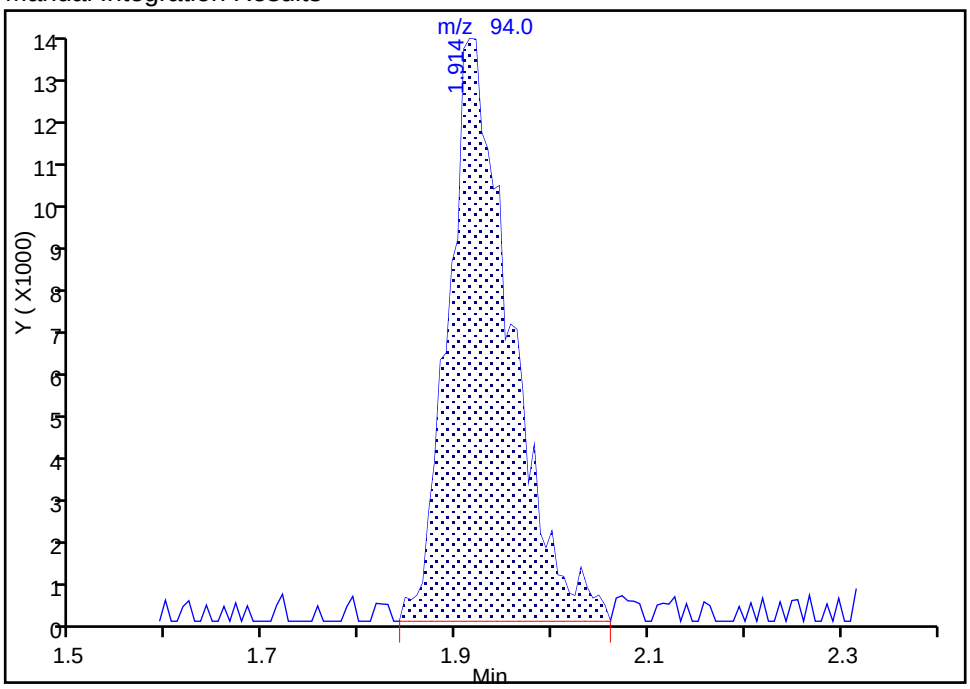
Processing Integration Results

RT: 1.91
Area: 55496
Amount: 8.854328
Amount Units: ug/L



Manual Integration Results

RT: 1.91
Area: 62815
Amount: 9.457342
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:34:07
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

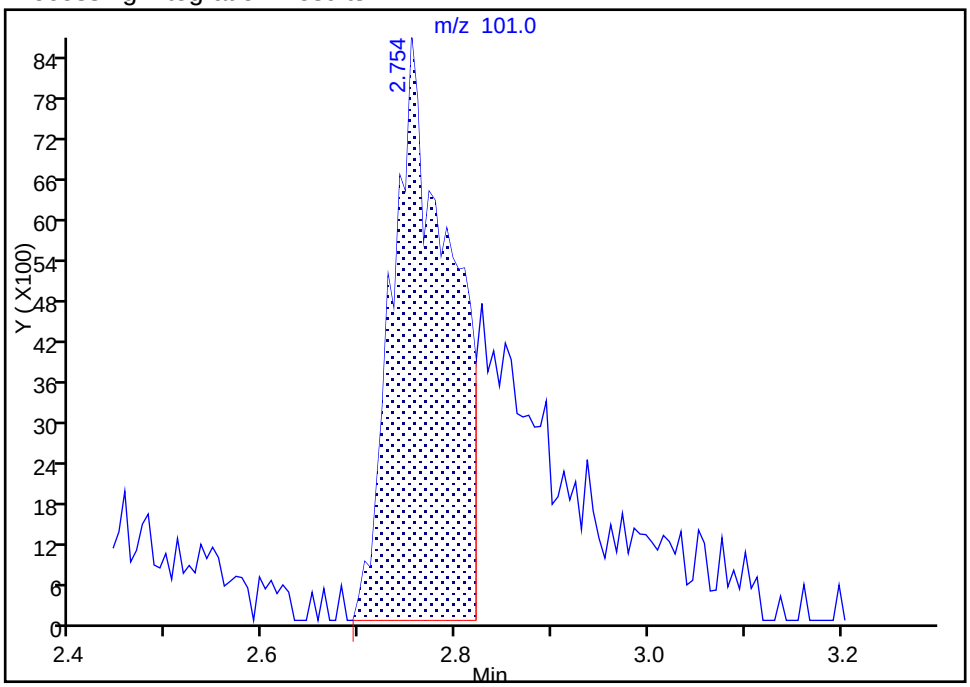
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1031.D
Injection Date: 19-Aug-2017 15:39:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 72 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

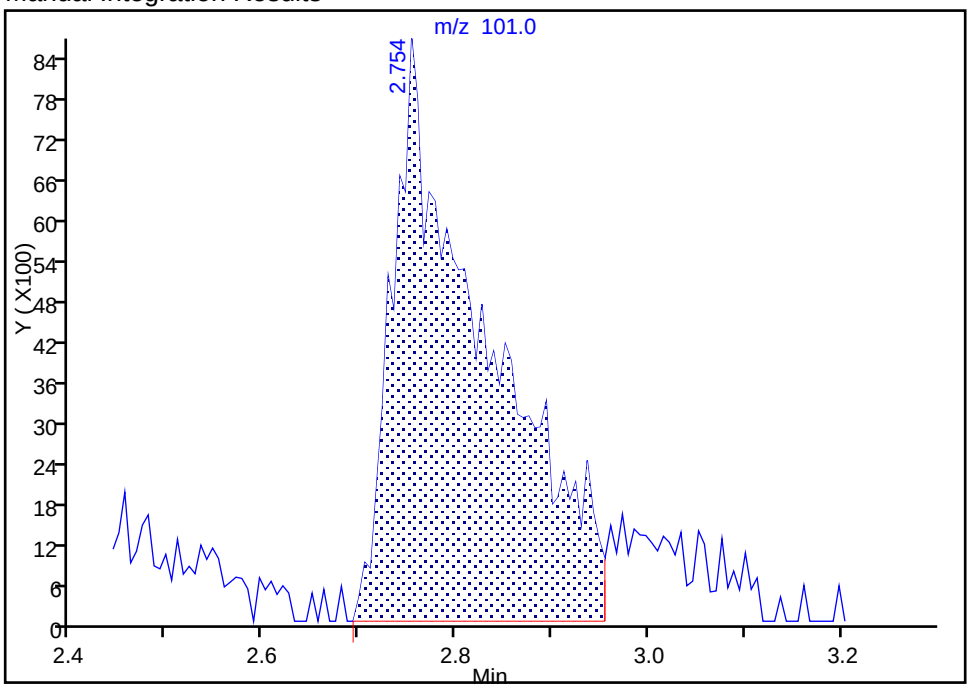
Processing Integration Results

RT: 2.75
Area: 36484
Amount: 6.446334
Amount Units: ug/L



Manual Integration Results

RT: 2.75
Area: 58070
Amount: 9.393829
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:31:06
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

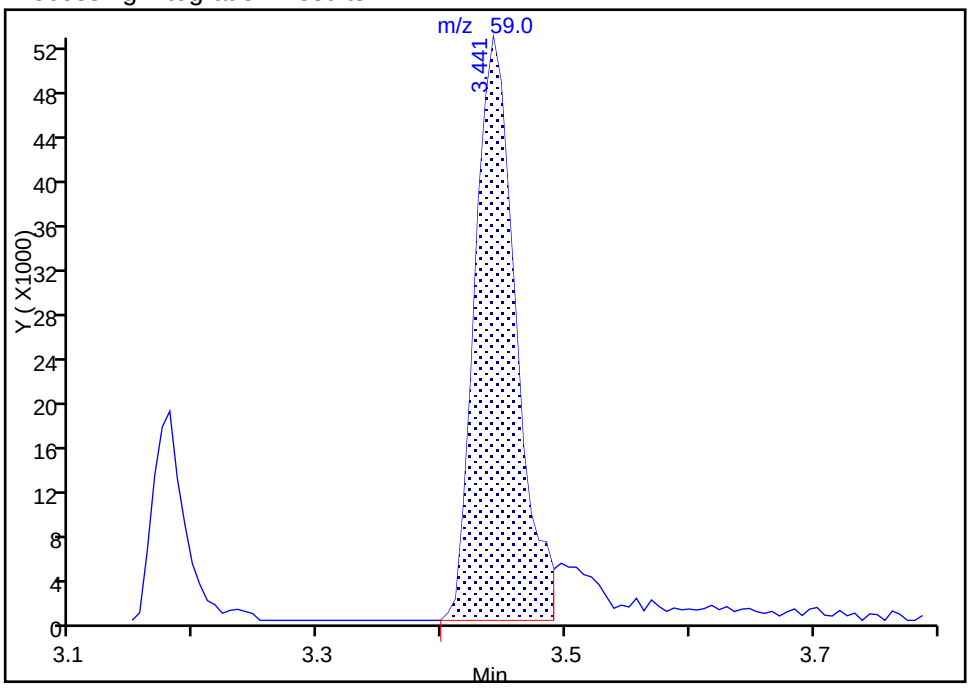
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1031.D
Injection Date: 19-Aug-2017 15:39:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 72 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

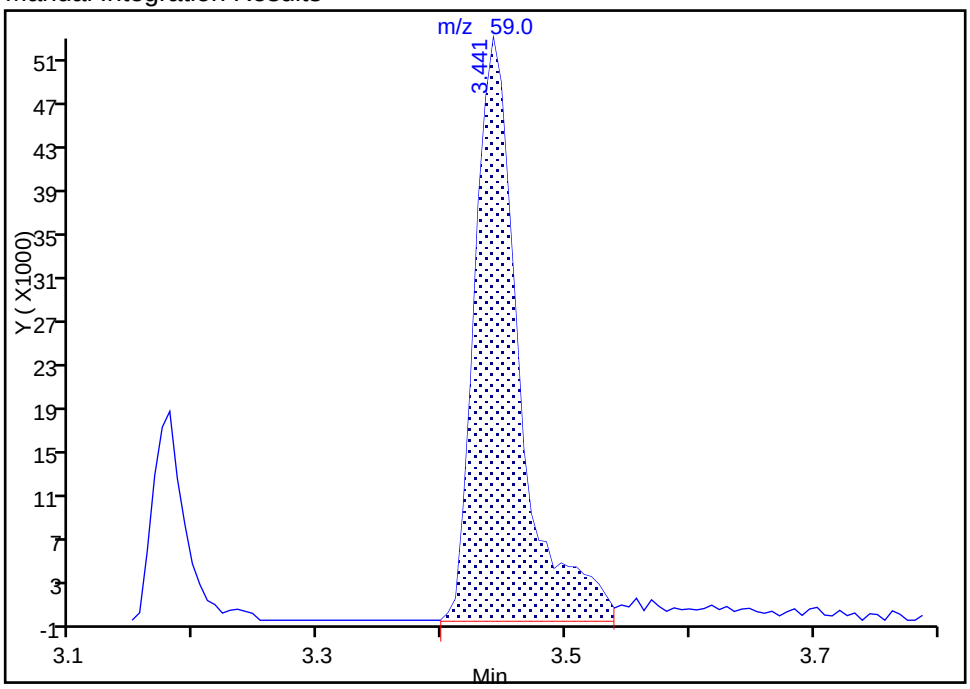
Processing Integration Results

RT: 3.44
Area: 120232
Amount: 99.081724
Amount Units: ug/L



Manual Integration Results

RT: 3.44
Area: 131668
Amount: 105.1845
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:35:27
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

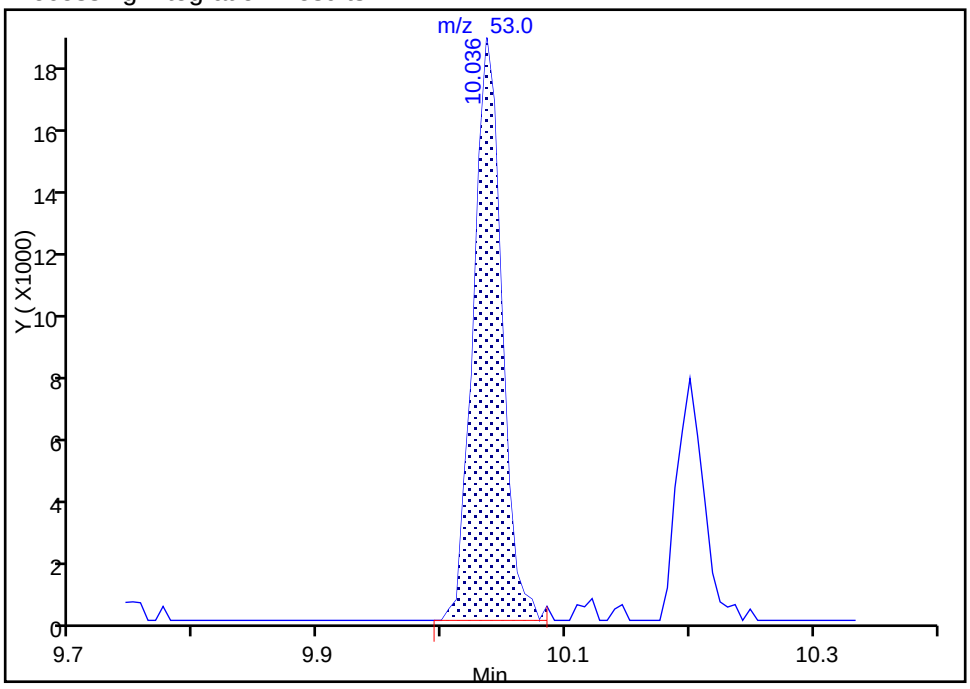
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1031.D
Injection Date: 19-Aug-2017 15:39:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 72 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

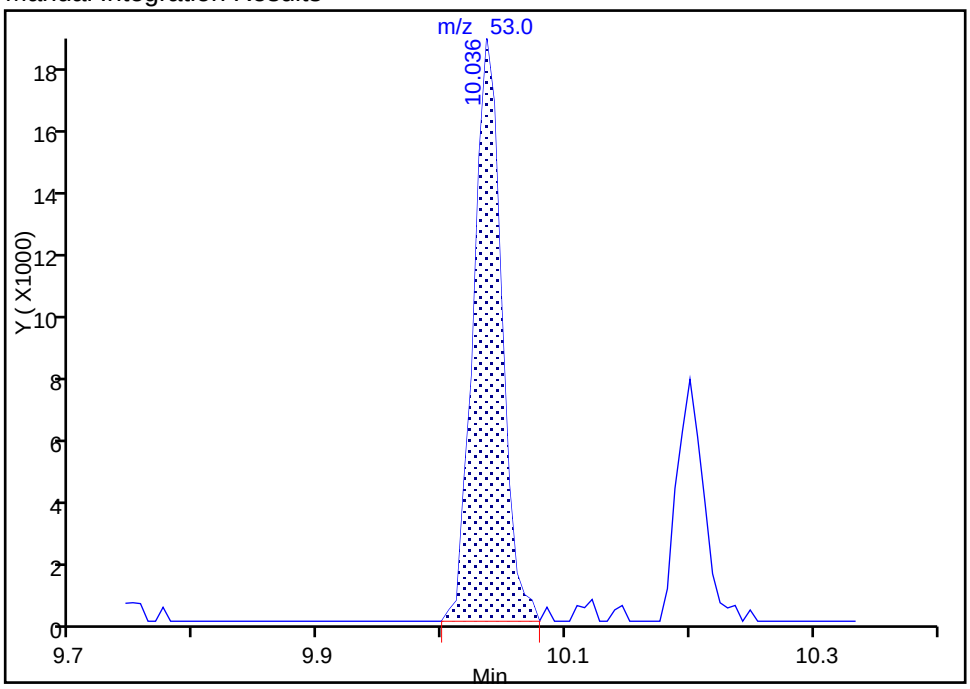
Processing Integration Results

RT: 10.04
Area: 29696
Amount: 10.004043
Amount Units: ug/L



Manual Integration Results

RT: 10.04
Area: 29533
Amount: 10.300980
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:41:46
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1032.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 19-Aug-2017 16:02:30 ALS Bottle#: 73 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0064982-013
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Aug-2017 13:39:20 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: archern Date: 20-Aug-2017 13:09:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.552	5.552	0.000	97	183588	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	86	380015	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	55	371951	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	83	217277	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	147154	25.0	25.1	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	92	913212	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	90	297465	25.0	24.8	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	87	214314	25.0	25.8	
12 Chloromethane	50	1.507	1.507	0.000	100	255943	25.0	23.7	
13 Vinyl chloride	62	1.580	1.580	0.000	80	245259	25.0	25.1	
151 Butadiene	54	1.604	1.604	0.000	70	212660	25.0	22.4	
14 Bromomethane	94	1.914	1.914	0.000	89	156966	25.0	23.3	
15 Chloroethane	64	2.018	2.018	0.000	97	153013	25.0	24.9	
16 Dichlorofluoromethane	67	2.231	2.231	0.000	80	343165	25.0	22.5	
17 Trichlorofluoromethane	101	2.231	2.231	0.000	63	314229	25.0	25.7	
18 Ethyl ether	59	2.529	2.529	0.000	91	210047	25.0	25.5	
20 Acrolein	56	2.705	2.705	0.000	91	183633	125.0	122.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.760	2.760	0.000	50	158547	25.0	25.3	
22 1,1-Dichloroethene	96	2.772	2.772	0.000	83	188938	25.0	25.9	
23 Acetone	43	2.869	2.869	0.000	99	394974	125.0	119.2	
25 Iodomethane	142	2.936	2.936	0.000	98	326152	25.0	27.0	
26 Carbon disulfide	76	2.967	2.967	0.000	99	589036	25.0	25.4	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	85	347847	25.0	25.1	
27 Methyl acetate	43	3.174	3.174	0.000	98	987144	125.0	127.8	
30 Methylene Chloride	84	3.295	3.295	0.000	79	220297	25.0	24.2	
31 2-Methyl-2-propanol	59	3.441	3.441	0.000	95	333317	250.0	263.0	
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	85	691280	25.0	25.5	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	76	208971	25.0	25.6	
33 Acrylonitrile	53	3.551	3.551	0.000	98	1005897	250.0	257.6	
35 Hexane	57	3.715	3.715	0.000	93	305935	25.0	25.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	97	381544	25.0	25.0	
37 Vinyl acetate	43	3.989	3.989	0.000	97	932479	50.0	51.9	
44 2,2-Dichloropropane	77	4.457	4.457	0.000	92	248156	25.0	26.1	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	82	239263	25.0	25.1	
43 2-Butanone (MEK)	43	4.524	4.524	0.000	95	629460	125.0	128.9	
48 Chlorobromomethane	128	4.725	4.725	0.000	92	123043	25.0	26.5	
49 Tetrahydrofuran	42	4.755	4.755	0.000	86	165373	50.0	50.8	
50 Chloroform	83	4.804	4.804	0.000	81	381464	25.0	25.7	
51 1,1,1-Trichloroethane	97	4.926	4.926	0.000	91	295013	25.0	25.3	
52 Cyclohexane	56	4.932	4.932	0.000	92	335917	25.0	25.2	
55 Carbon tetrachloride	117	5.066	5.066	0.000	78	261899	25.0	26.5	
54 1,1-Dichloropropene	75	5.078	5.078	0.000	90	280893	25.0	25.6	
57 Benzene	78	5.279	5.279	0.000	97	864565	25.0	25.6	
53 Isobutyl alcohol	43	5.285	5.285	0.000	57	323559	625.0	663.6	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	72	324895	25.0	24.6	
59 n-Heptane	43	5.467	5.467	0.000	93	331676	25.0	25.9	
62 Trichloroethene	95	5.893	5.893	0.000	92	224076	25.0	26.2	
64 Methylcyclohexane	83	6.021	6.021	0.000	92	347998	25.0	25.2	
65 1,2-Dichloropropane	63	6.130	6.130	0.000	87	218404	25.0	24.8	
67 Dibromomethane	93	6.270	6.270	0.000	87	135981	25.0	24.9	
66 1,4-Dioxane	88	6.282	6.282	0.000	52	62288	500.0	483.0	
68 Dichlorobromomethane	83	6.416	6.416	0.000	98	269644	25.0	25.7	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	93	168328	25.0	27.1	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	87	367601	25.0	27.1	
73 4-Methyl-2-pentanone (MIBK	43	6.982	6.982	0.000	97	1342356	125.0	132.7	
74 Toluene	92	7.134	7.134	0.000	95	561432	25.0	25.1	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	97	339434	25.0	27.4	
75 Ethyl methacrylate	69	7.450	7.450	0.000	72	302438	25.0	26.5	
79 1,1,2-Trichloroethane	83	7.596	7.596	0.000	87	165974	25.0	25.2	
81 Tetrachloroethene	166	7.669	7.669	0.000	85	243504	25.0	25.5	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	94	356902	25.0	25.1	
80 2-Hexanone	43	7.821	7.821	0.000	96	954805	125.0	132.8	
83 Chlorodibromomethane	129	7.992	7.992	0.000	89	205775	25.0	26.9	
84 Ethylene Dibromide	107	8.101	8.101	0.000	98	214166	25.0	25.6	
87 Chlorobenzene	112	8.582	8.582	0.000	94	644733	25.0	25.4	
88 Ethylbenzene	91	8.673	8.673	0.000	35	1050435	25.0	25.9	
89 1,1,1,2-Tetrachloroethane	131	8.679	8.679	0.000	41	216122	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	431140	25.0	25.5	
91 o-Xylene	106	9.221	9.221	0.000	97	414717	25.0	25.6	
92 Styrene	104	9.251	9.251	0.000	94	712528	25.0	26.0	
95 Bromoform	173	9.494	9.494	0.000	95	128898	25.0	26.6	
94 Isopropylbenzene	105	9.604	9.604	0.000	96	1061821	25.0	25.6	
101 Bromobenzene	156	9.945	9.945	0.000	93	285619	25.0	25.8	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	88	273204	25.0	25.6	
100 1,2,3-Trichloropropane	110	10.024	10.024	0.000	49	95238	25.0	25.8	
99 N-Propylbenzene	91	10.024	10.024	0.000	98	1219958	25.0	26.0	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	37	87042	25.0	30.4	
103 2-Chlorotoluene	126	10.127	10.127	0.000	96	256920	25.0	25.8	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	84	908559	25.0	26.3	
105 4-Chlorotoluene	126	10.237	10.237	0.000	96	265757	25.0	25.6	
106 tert-Butylbenzene	134	10.516	10.516	0.000	92	215512	25.0	26.8	
107 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	27	931581	25.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	94	1130219	25.0	26.3	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	96	983436	25.0	26.4	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	83	546452	25.0	26.0	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	94	555266	25.0	25.6	
115 n-Butylbenzene	91	11.247	11.247	0.000	95	863418	25.0	26.9	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	92	528994	25.0	26.1	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	75	54026	25.0	27.7	
119 1,2,4-Trichlorobenzene	180	12.694	12.694	0.000	94	365772	25.0	25.9	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	93	166076	25.0	26.0	
121 Naphthalene	128	12.907	12.907	0.000	97	970738	25.0	26.8	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	96	341042	25.0	26.3	

Reagents:

8260 CORP mix_00106	Amount Added: 12.50	Units: uL	
GAS CORP mix_00237	Amount Added: 12.50	Units: uL	
S_8260_IS_00257	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00209	Amount Added: 1.00	Units: uL	Run Reagent

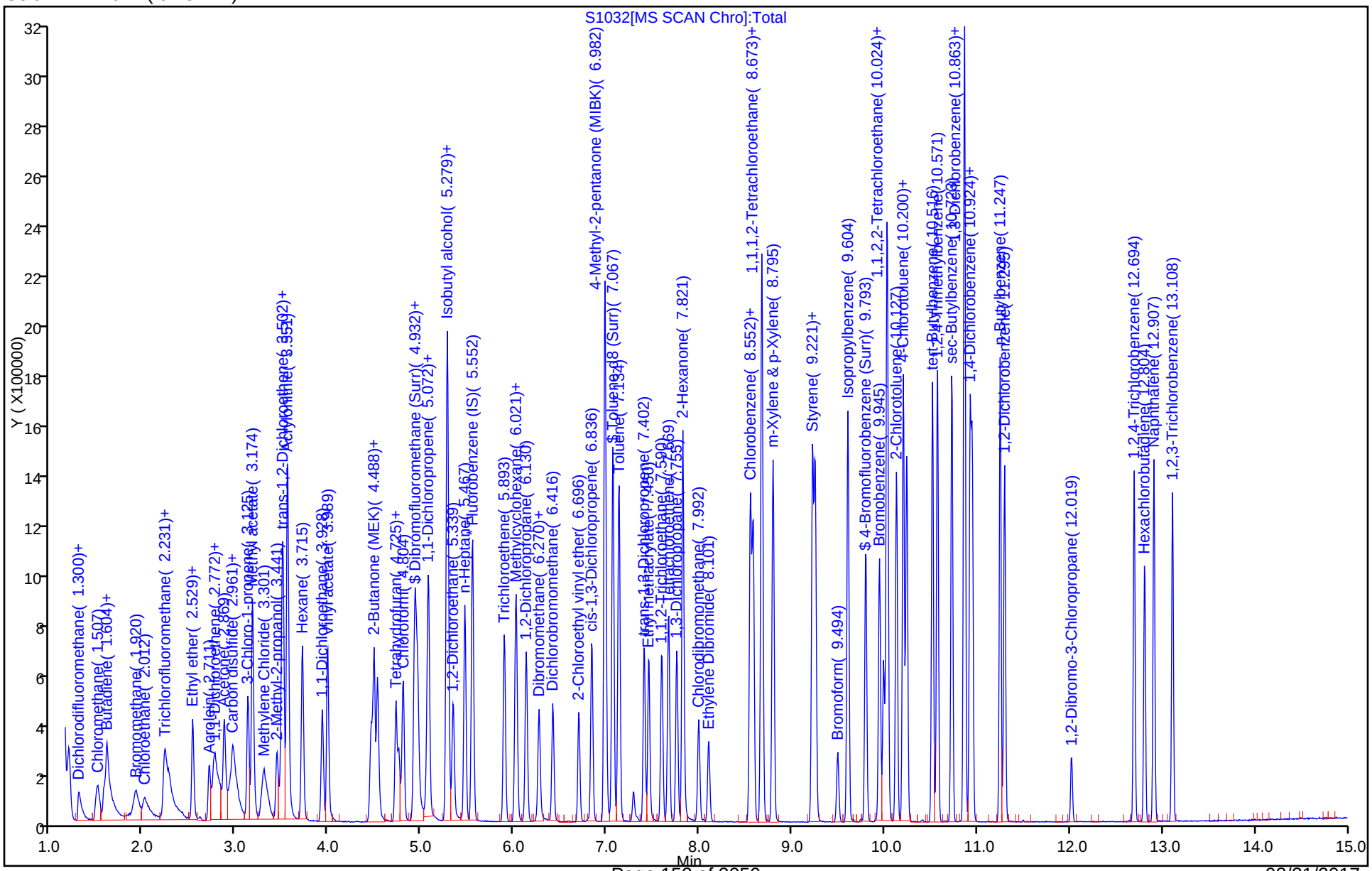
Report Date: 20-Aug-2017 13:39:22 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1032.D

Injection Date:	19-Aug-2017 16:02:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	ICIS 5			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	73
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1033.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 19-Aug-2017 16:25:30 ALS Bottle#: 74 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0064982-014
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Aug-2017 13:39:24 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: archern Date: 20-Aug-2017 09:21:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.552	5.552	0.000	98	184541	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	87	377794	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	45	384556	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	84	222164	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	146713	25.0	24.9	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	92	912014	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	91	303163	25.0	25.5	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	86	409975	50.0	49.1	M
12 Chloromethane	50	1.501	1.507	-0.006	89	511618	50.0	47.1	
13 Vinyl chloride	62	1.574	1.580	-0.006	79	475142	50.0	48.4	
151 Butadiene	54	1.604	1.604	0.000	66	442640	50.0	46.4	
14 Bromomethane	94	1.914	1.914	0.000	93	307922	50.0	45.6	
15 Chloroethane	64	2.006	2.018	-0.012	95	306375	50.0	50.0	
16 Dichlorofluoromethane	67	2.225	2.231	-0.006	95	685951	50.0	44.7	
17 Trichlorofluoromethane	101	2.237	2.231	0.006	69	593971	50.0	48.3	
18 Ethyl ether	59	2.529	2.529	0.000	90	434005	50.0	52.4	
20 Acrolein	56	2.705	2.705	0.000	92	383689	250.0	254.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.754	2.760	-0.006	56	322976	50.0	51.3	M
22 1,1-Dichloroethene	96	2.766	2.772	-0.006	85	397113	50.0	54.2	
23 Acetone	43	2.863	2.869	-0.006	98	813085	250.0	244.1	
25 Iodomethane	142	2.936	2.936	0.000	97	680167	50.0	56.0	
26 Carbon disulfide	76	2.961	2.967	-0.006	99	1188831	50.0	51.0	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	86	730236	50.0	52.4	
27 Methyl acetate	43	3.174	3.174	0.000	96	1993164	250.0	256.7	
30 Methylene Chloride	84	3.295	3.295	0.000	84	450097	50.0	49.1	
31 2-Methyl-2-propanol	59	3.435	3.441	-0.006	98	697751	500.0	547.8	M
32 Methyl tert-butyl ether	73	3.490	3.496	-0.006	86	1400575	50.0	51.4	
34 trans-1,2-Dichloroethene	96	3.502	3.508	-0.006	68	443050	50.0	54.1	
33 Acrylonitrile	53	3.551	3.551	0.000	97	2046368	500.0	521.4	
35 Hexane	57	3.709	3.715	-0.006	93	625175	50.0	51.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	85	770190	50.0	50.2	
37 Vinyl acetate	43	3.983	3.989	-0.006	97	1978883	100.0	109.6	
44 2,2-Dichloropropane	77	4.457	4.457	0.000	93	521525	50.0	54.5	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	82	492162	50.0	51.4	
43 2-Butanone (MEK)	43	4.524	4.524	0.000	95	1296803	250.0	264.2	
48 Chlorobromomethane	128	4.725	4.725	0.000	92	246620	50.0	52.9	
49 Tetrahydrofuran	42	4.749	4.755	-0.006	87	340747	100.0	104.1	
50 Chloroform	83	4.804	4.804	0.000	81	766504	50.0	51.3	
51 1,1,1-Trichloroethane	97	4.920	4.926	-0.006	92	614465	50.0	52.5	
52 Cyclohexane	56	4.932	4.932	0.000	91	680876	50.0	50.9	
55 Carbon tetrachloride	117	5.066	5.066	0.000	87	534103	50.0	53.7	
54 1,1-Dichloropropene	75	5.078	5.078	0.000	92	574188	50.0	52.0	
57 Benzene	78	5.279	5.279	0.000	97	1750622	50.0	51.5	
53 Isobutyl alcohol	43	5.279	5.285	-0.006	61	706146	1250.0	1440.8	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	73	686088	50.0	51.6	
59 n-Heptane	43	5.467	5.467	0.000	92	653216	50.0	50.8	
62 Trichloroethene	95	5.893	5.893	0.000	92	453601	50.0	52.7	
64 Methylcyclohexane	83	6.021	6.021	0.000	92	704181	50.0	50.8	
65 1,2-Dichloropropane	63	6.130	6.130	0.000	89	452465	50.0	51.1	
67 Dibromomethane	93	6.264	6.270	-0.006	90	289628	50.0	52.7	
66 1,4-Dioxane	88	6.282	6.282	0.000	56	131441	1000.0	1007.5	
68 Dichlorobromomethane	83	6.416	6.416	0.000	98	564160	50.0	53.5	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	94	353183	50.0	56.5	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	88	747223	50.0	54.8	
73 4-Methyl-2-pentanone (MIBK	43	6.976	6.982	-0.006	96	2633567	250.0	262.0	
74 Toluene	92	7.128	7.134	-0.006	97	1160098	50.0	52.1	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	94	714649	50.0	57.9	
75 Ethyl methacrylate	69	7.450	7.450	0.000	72	642180	50.0	56.5	
79 1,1,2-Trichloroethane	83	7.590	7.596	-0.006	88	349762	50.0	53.4	
81 Tetrachloroethene	166	7.669	7.669	0.000	89	507406	50.0	53.4	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	94	751784	50.0	53.2	
80 2-Hexanone	43	7.822	7.821	0.001	94	1914804	250.0	267.9	
83 Chlorodibromomethane	129	7.992	7.992	0.000	88	444525	50.0	58.4	
84 Ethylene Dibromide	107	8.101	8.101	0.000	99	448481	50.0	53.9	
87 Chlorobenzene	112	8.582	8.582	0.000	93	1309104	50.0	51.8	
88 Ethylbenzene	91	8.673	8.673	0.000	46	2117576	50.0	52.4	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.679	-0.006	40	449997	50.0	54.1	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	874384	50.0	52.0	
91 o-Xylene	106	9.221	9.221	0.000	97	847990	50.0	52.7	
92 Styrene	104	9.251	9.251	0.000	93	1455682	50.0	53.4	
95 Bromoform	173	9.495	9.494	0.001	96	291730	50.0	60.5	
94 Isopropylbenzene	105	9.604	9.604	0.000	96	2166985	50.0	50.6	
101 Bromobenzene	156	9.945	9.945	0.000	93	594571	50.0	51.9	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	80	559037	50.0	50.7	
99 N-Propylbenzene	91	10.024	10.024	0.000	97	2456808	50.0	50.7	
100 1,2,3-Trichloropropane	110	10.024	10.024	0.000	49	193805	50.0	50.9	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	41	190484	50.0	64.3	
103 2-Chlorotoluene	126	10.127	10.127	0.000	96	524271	50.0	51.0	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	85	1828548	50.0	51.2	
105 4-Chlorotoluene	126	10.237	10.237	0.000	80	552092	50.0	51.5	
106 tert-Butylbenzene	134	10.517	10.516	0.001	91	426036	50.0	51.1	
107 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	25	1917112	50.0	52.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	94	2322403	50.0	52.3	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	82	1105989	50.0	51.0	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	96	2022986	50.0	52.6	
113 1,4-Dichlorobenzene	146	10.949	10.948	0.000	95	1135484	50.0	50.7	
115 n-Butylbenzene	91	11.247	11.247	0.000	94	1770815	50.0	53.3	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	93	1067053	50.0	50.8	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	76	113607	50.0	56.4	
119 1,2,4-Trichlorobenzene	180	12.694	12.694	0.000	93	777520	50.0	53.2	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	95	365765	50.0	55.4	
121 Naphthalene	128	12.907	12.907	0.000	97	2072109	50.0	55.3	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	95	732255	50.0	54.7	
S 126 1,3-Dichloropropene, Total	1				0			112.7	
S 125 1,2-Dichloroethene, Total	1				0			105.5	
S 124 Xylenes, Total	1				0			104.6	
S 123 Total BTEX	1				0			260.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00106	Amount Added:	25.00	Units: uL	
GAS CORP mix_00237	Amount Added:	25.00	Units: uL	
S_8260_IS_00257	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00209	Amount Added:	1.00	Units: uL	Run Reagent

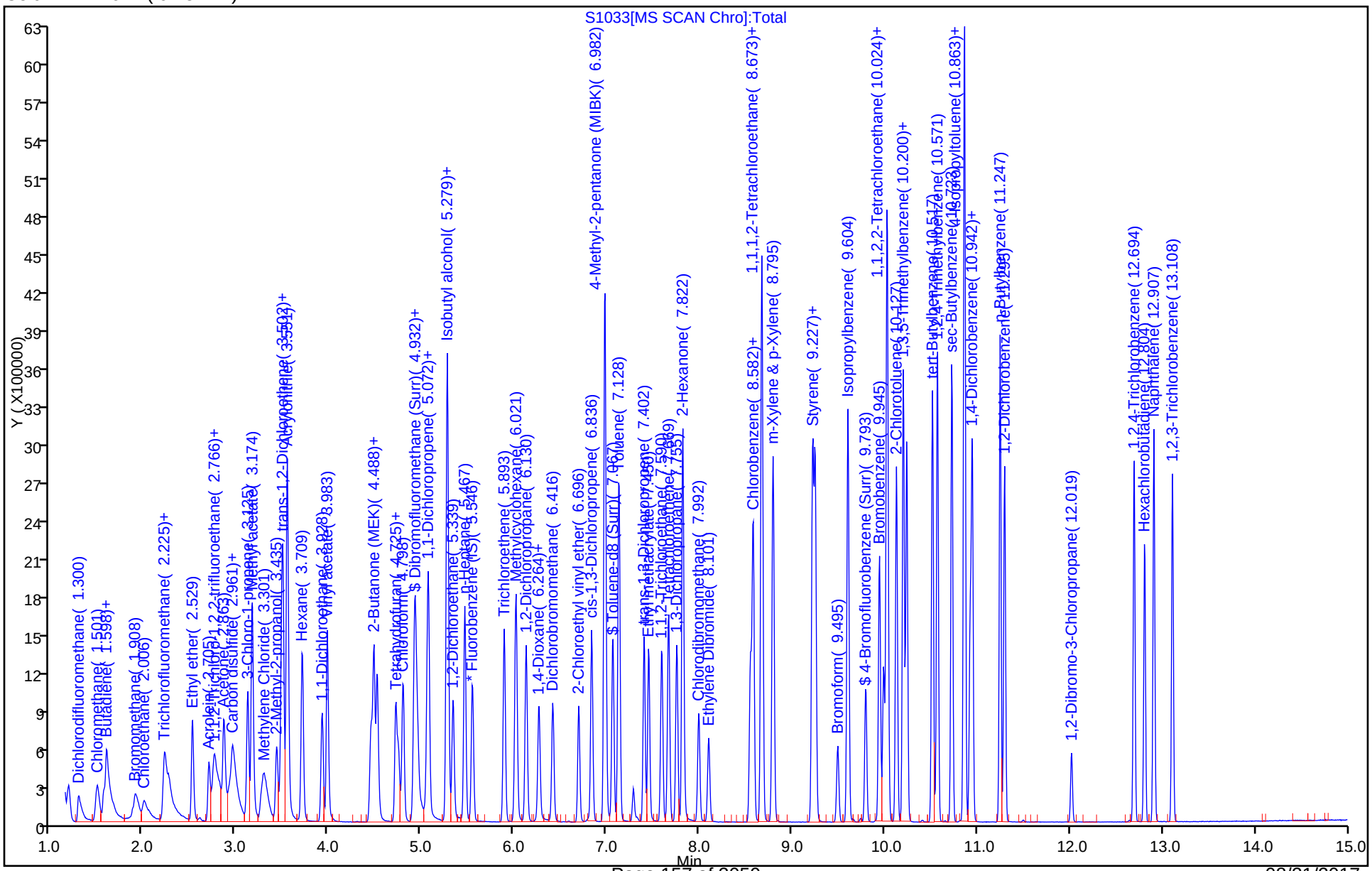
Report Date: 20-Aug-2017 13:39:26 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1033.D

Injection Date:	19-Aug-2017 16:25:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 6			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	74
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

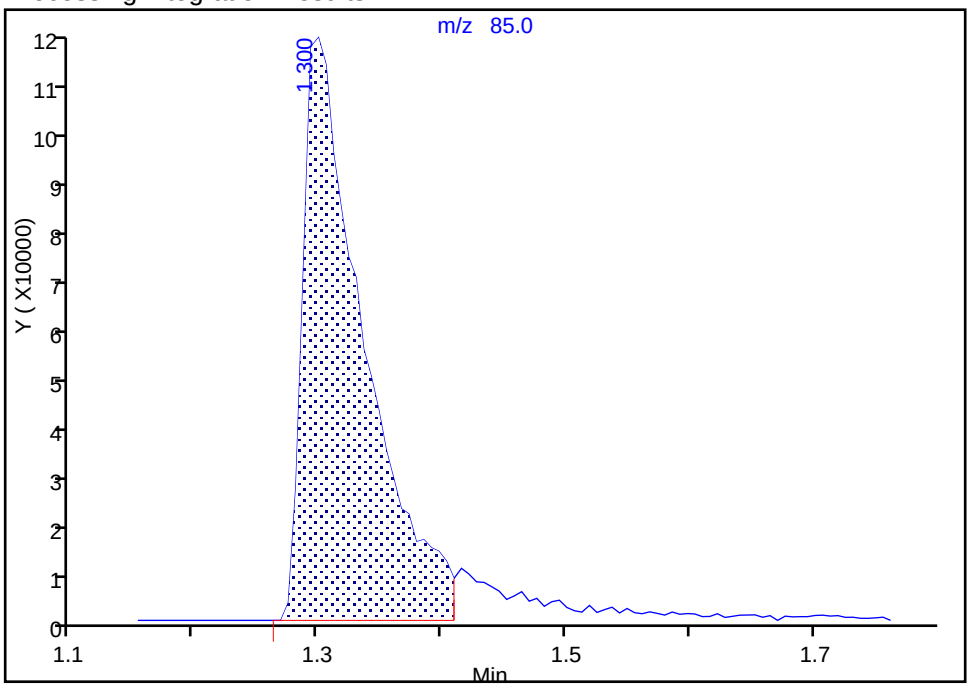
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1033.D
Injection Date: 19-Aug-2017 16:25:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 74 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

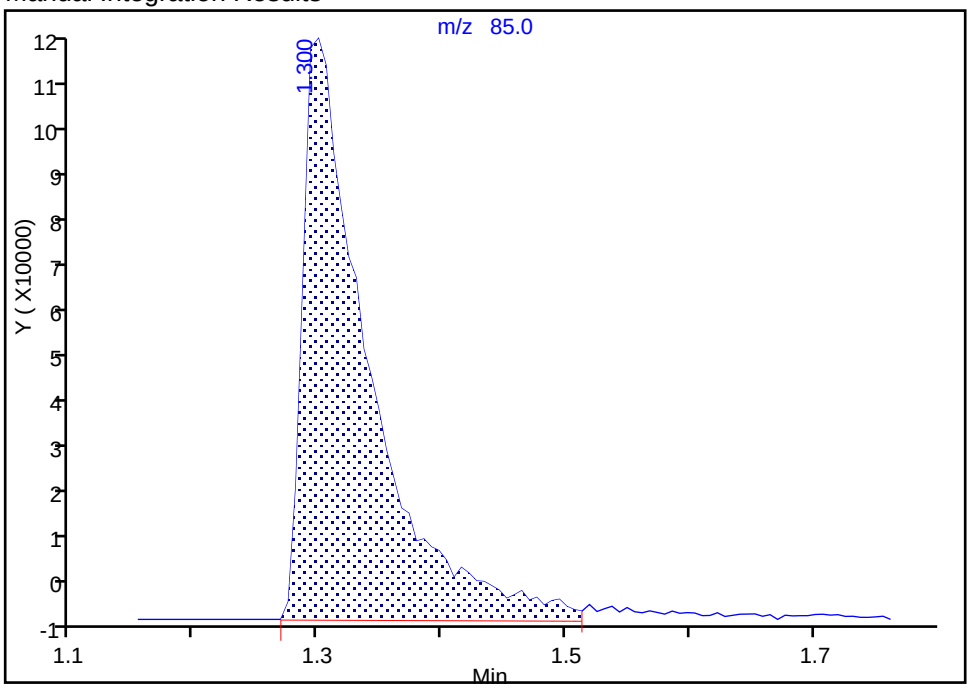
Processing Integration Results

RT: 1.30
Area: 376348
Amount: 45.492388
Amount Units: ug/L



Manual Integration Results

RT: 1.30
Area: 409975
Amount: 49.058638
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:36:48
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

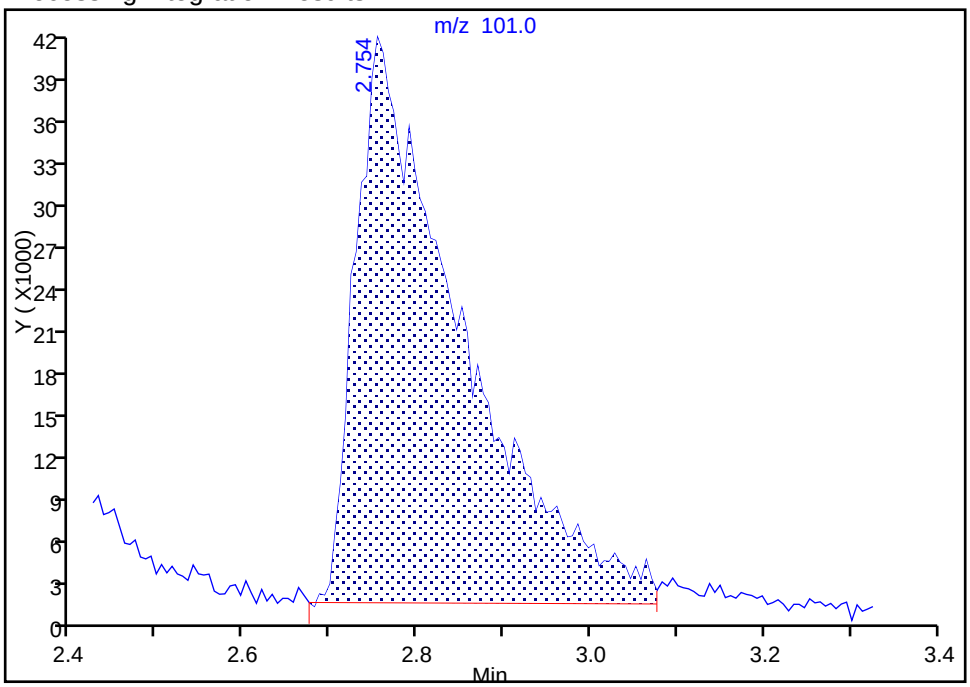
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1033.D
Injection Date: 19-Aug-2017 16:25:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 74 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

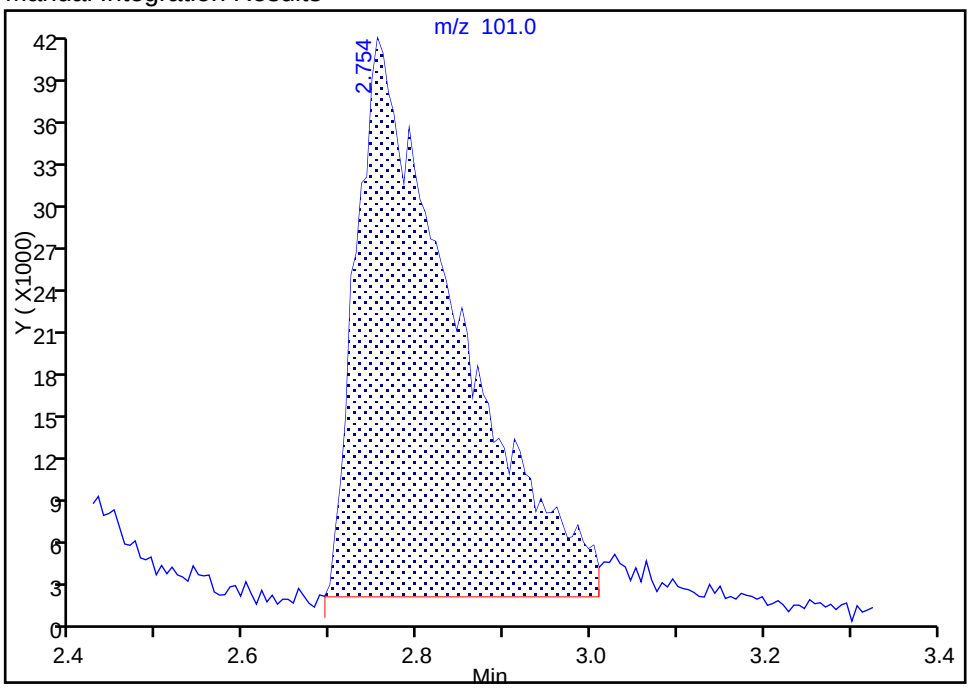
Processing Integration Results

RT: 2.75
Area: 343058
Amount: 48.057470
Amount Units: ug/L



Manual Integration Results

RT: 2.75
Area: 322976
Amount: 51.343251
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:31:36
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

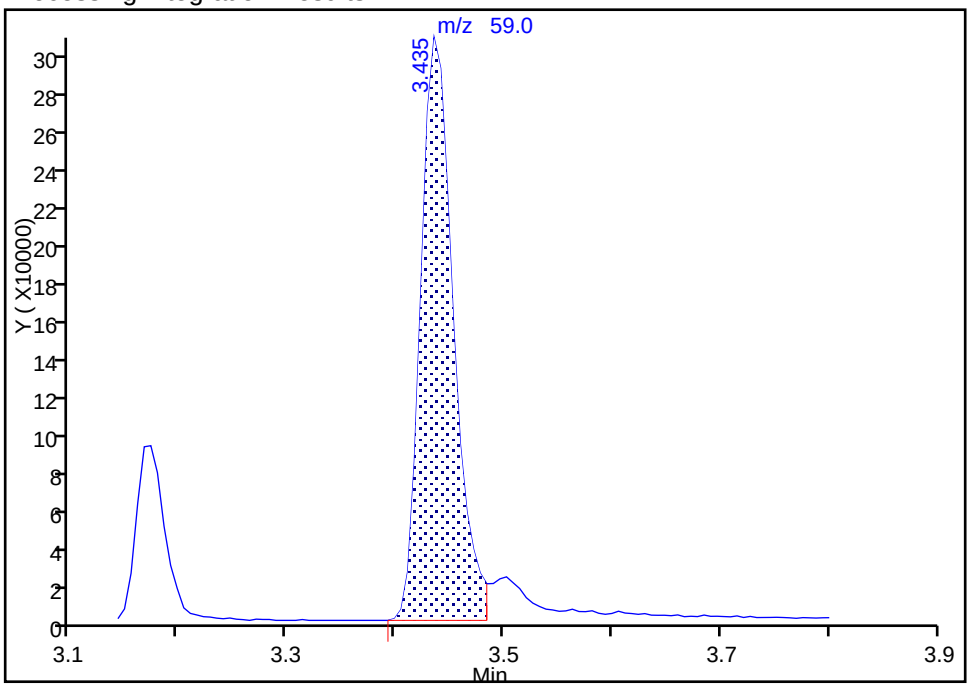
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1033.D
Injection Date: 19-Aug-2017 16:25:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 74 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

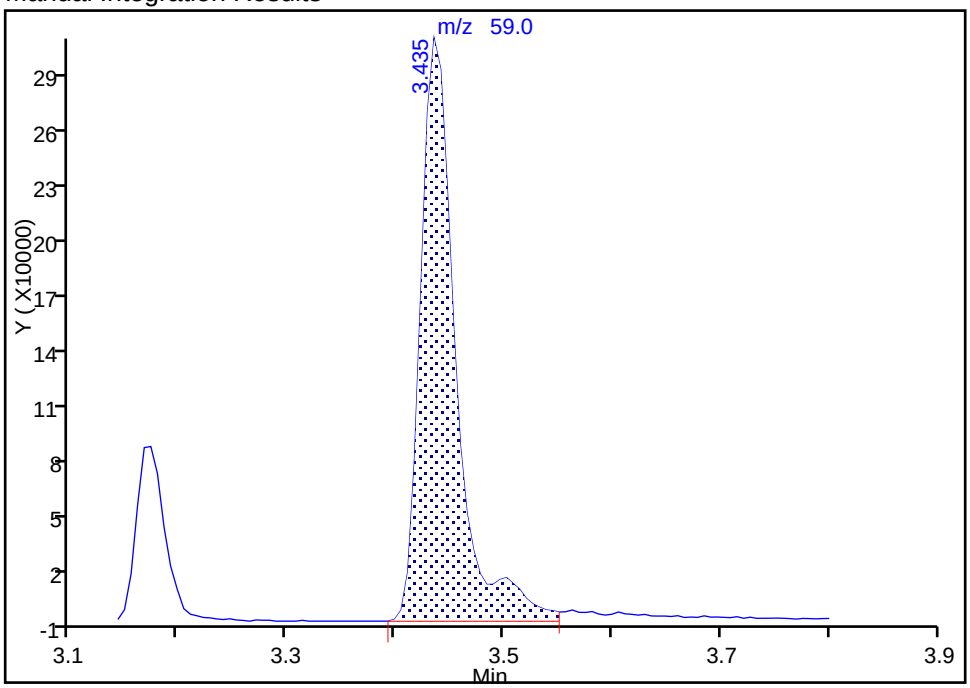
Processing Integration Results

RT: 3.44
Area: 644421
Amount: 515.7975
Amount Units: ug/L



Manual Integration Results

RT: 3.44
Area: 697751
Amount: 547.7649
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:37:31
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1034.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 19-Aug-2017 16:48:30 ALS Bottle#: 75 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0064982-015
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Aug-2017 13:39:28 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: archern Date: 20-Aug-2017 09:23:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.552	5.552	0.000	93	186451	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	85	380041	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	20	381590	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	57	225656	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.273	5.266	0.007	0	145711	25.0	24.5	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	91	919765	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	88	304759	25.0	25.4	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	87	918653	100.0	108.8	
12 Chloromethane	50	1.507	1.507	0.000	100	1037116	100.0	94.6	
13 Vinyl chloride	62	1.580	1.580	0.000	67	1009030	100.0	101.7	
151 Butadiene	54	1.604	1.604	0.000	66	925917	100.0	96.2	
14 Bromomethane	94	1.920	1.914	0.006	91	630988	100.0	92.4	
15 Chloroethane	64	2.012	2.018	-0.006	95	616195	100.0	100.1	
17 Trichlorofluoromethane	101	2.237	2.231	0.006	70	1326154	100.0	106.7	
16 Dichlorofluoromethane	67	2.231	2.231	0.000	81	1436599	100.0	92.7	
18 Ethyl ether	59	2.529	2.529	0.000	92	866862	100.0	103.7	
20 Acrolein	56	2.705	2.705	0.000	95	771288	500.0	505.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.760	2.760	0.000	55	753469	100.0	118.6	M
22 1,1-Dichloroethene	96	2.772	2.772	0.000	85	838247	100.0	113.3	
23 Acetone	43	2.870	2.869	0.001	99	1602148	500.0	476.1	
25 Iodomethane	142	2.936	2.936	0.000	98	1421052	100.0	115.8	
26 Carbon disulfide	76	2.967	2.967	0.000	99	2575640	100.0	109.4	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	85	1491800	100.0	106.0	
27 Methyl acetate	43	3.174	3.174	0.000	95	3882239	500.0	494.9	
30 Methylene Chloride	84	3.301	3.295	0.006	86	928428	100.0	100.3	
31 2-Methyl-2-propanol	59	3.435	3.441	-0.006	98	1424020	1000.0	1106.5	M
32 Methyl tert-butyl ether	73	3.496	3.496	0.000	86	2792501	100.0	101.5	
34 trans-1,2-Dichloroethene	96	3.508	3.508	0.000	85	888174	100.0	107.3	
33 Acrylonitrile	53	3.551	3.551	0.000	96	4012018	1000.0	1011.8	
35 Hexane	57	3.715	3.715	0.000	93	1348566	100.0	110.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	85	1575302	100.0	101.7	
37 Vinyl acetate	43	3.983	3.989	-0.006	98	3954187	200.0	216.8	
44 2,2-Dichloropropane	77	4.457	4.457	0.000	92	1040213	100.0	107.7	
45 cis-1,2-Dichloroethene	96	4.488	4.488	0.000	70	1000603	100.0	103.5	
43 2-Butanone (MEK)	43	4.518	4.524	-0.006	94	2578577	500.0	520.0	
48 Chlorobromomethane	128	4.725	4.725	0.000	93	496331	100.0	105.3	
49 Tetrahydrofuran	42	4.749	4.755	-0.006	85	684646	200.0	207.0	
50 Chloroform	83	4.804	4.804	0.000	81	1575842	100.0	104.4	
51 1,1,1-Trichloroethane	97	4.926	4.926	0.000	94	1299251	100.0	109.8	
52 Cyclohexane	56	4.938	4.932	0.006	91	1539359	100.0	113.8	M
55 Carbon tetrachloride	117	5.066	5.066	0.000	79	1181977	100.0	117.7	M
54 1,1-Dichloropropene	75	5.078	5.078	0.000	91	1207304	100.0	108.2	
57 Benzene	78	5.279	5.279	0.000	97	3507985	100.0	102.2	
53 Isobutyl alcohol	43	5.279	5.285	-0.006	62	1473331	2500.0	2975.3	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	89	1350759	100.0	100.6	
59 n-Heptane	43	5.467	5.467	0.000	91	1398166	100.0	107.6	
62 Trichloroethene	95	5.893	5.893	0.000	92	921204	100.0	106.0	
64 Methylcyclohexane	83	6.021	6.021	0.000	92	1562932	100.0	111.6	
65 1,2-Dichloropropane	63	6.130	6.130	0.000	88	906605	100.0	101.3	
67 Dibromomethane	93	6.264	6.270	-0.006	90	571135	100.0	102.9	
66 1,4-Dioxane	88	6.276	6.282	-0.006	42	265412	2000.0	2006.6	
68 Dichlorobromomethane	83	6.416	6.416	0.000	93	1173778	100.0	110.1	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	93	724530	100.0	114.8	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	89	1543066	100.0	112.0	
73 4-Methyl-2-pentanone (MIBK	43	6.976	6.982	-0.006	93	4986458	500.0	493.1	
74 Toluene	92	7.134	7.134	0.000	98	2322615	100.0	103.7	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	92	1471381	100.0	118.6	
75 Ethyl methacrylate	69	7.450	7.450	0.000	72	1318690	100.0	115.4	
79 1,1,2-Trichloroethane	83	7.590	7.596	-0.006	88	701614	100.0	106.5	
81 Tetrachloroethene	166	7.669	7.669	0.000	88	1061698	100.0	111.0	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	94	1500581	100.0	105.5	
80 2-Hexanone	43	7.822	7.821	0.001	92	3747677	500.0	521.3	
83 Chlorodibromomethane	129	7.992	7.992	0.000	88	944947	100.0	123.3	
84 Ethylene Dibromide	107	8.101	8.101	0.000	98	907398	100.0	108.3	
87 Chlorobenzene	112	8.582	8.582	0.000	93	2613601	100.0	102.8	
88 Ethylbenzene	91	8.673	8.673	0.000	46	4170255	100.0	102.7	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.679	-0.006	41	930603	100.0	111.2	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	1796699	100.0	106.1	
91 o-Xylene	106	9.221	9.221	0.000	97	1723267	100.0	106.4	
92 Styrene	104	9.251	9.251	0.000	93	2945881	100.0	107.4	
95 Bromoform	173	9.495	9.494	0.001	97	629172	100.0	129.7	
94 Isopropylbenzene	105	9.604	9.604	0.000	96	4279167	100.0	100.7	
101 Bromobenzene	156	9.945	9.945	0.000	92	1193495	100.0	105.0	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	80	1120811	100.0	102.4	
100 1,2,3-Trichloropropane	110	10.024	10.024	0.000	50	388261	100.0	102.7	
99 N-Propylbenzene	91	10.024	10.024	0.000	96	4715012	100.0	98.0	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	42	396069	100.0	134.7	
103 2-Chlorotoluene	126	10.127	10.127	0.000	96	1058006	100.0	103.7	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	85	3618407	100.0	102.1	
105 4-Chlorotoluene	126	10.237	10.237	0.000	97	1122590	100.0	105.4	
106 tert-Butylbenzene	134	10.517	10.516	0.001	92	882216	100.0	106.7	
107 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	45	3709347	100.0	102.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	95	4518298	100.0	102.5	
111 1,3-Dichlorobenzene	146	10.857	10.857	0.000	83	2212060	100.0	102.7	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	95	3914137	100.0	102.5	
113 1,4-Dichlorobenzene	146	10.949	10.948	0.000	94	2256795	100.0	101.5	
115 n-Butylbenzene	91	11.247	11.247	0.000	93	3495610	100.0	106.1	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	92	2158575	100.0	103.7	
117 1,2-Dibromo-3-Chloropropan	75	12.013	12.013	0.000	79	246079	100.0	123.1	
119 1,2,4-Trichlorobenzene	180	12.694	12.694	0.000	93	1617644	100.0	111.6	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	94	760586	100.0	116.1	
121 Naphthalene	128	12.907	12.907	0.000	98	4115266	100.0	110.7	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	94	1518675	100.0	114.3	
S 124 Xylenes, Total	1				0			212.6	
S 123 Total BTEX	1				0			521.1	
S 126 1,3-Dichloropropene, Total	1				0			230.5	
S 125 1,2-Dichloroethene, Total	1				0			210.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00106	Amount Added:	50.00	Units: uL	
GAS CORP mix_00237	Amount Added:	50.00	Units: uL	
S_8260_IS_00257	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00209	Amount Added:	1.00	Units: uL	Run Reagent

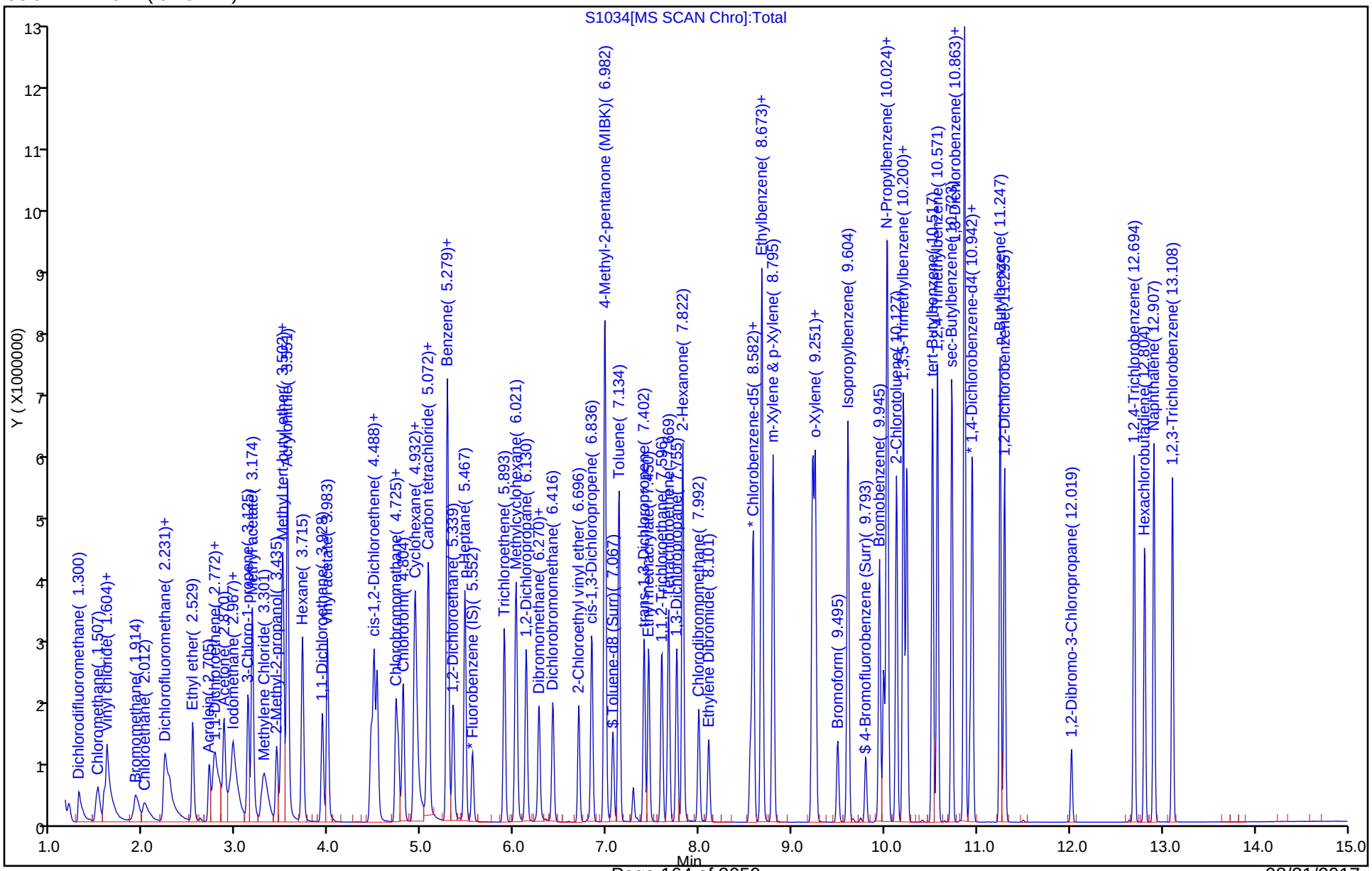
Report Date: 20-Aug-2017 13:39:30 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1034.D

Injection Date:	19-Aug-2017 16:48:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 7			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	75
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

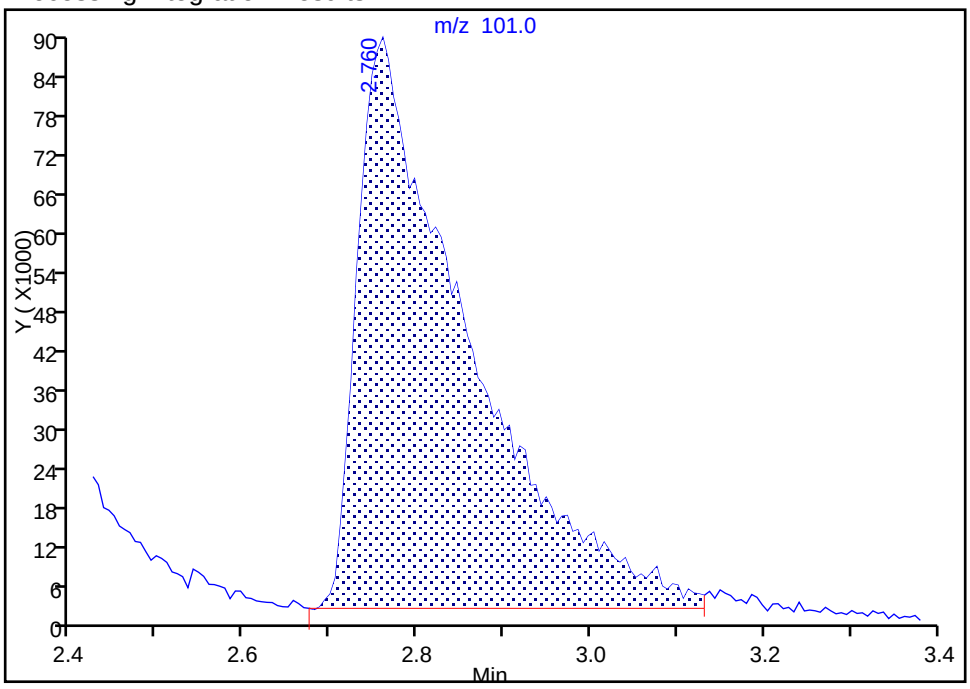
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1034.D
Injection Date: 19-Aug-2017 16:48:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 75 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

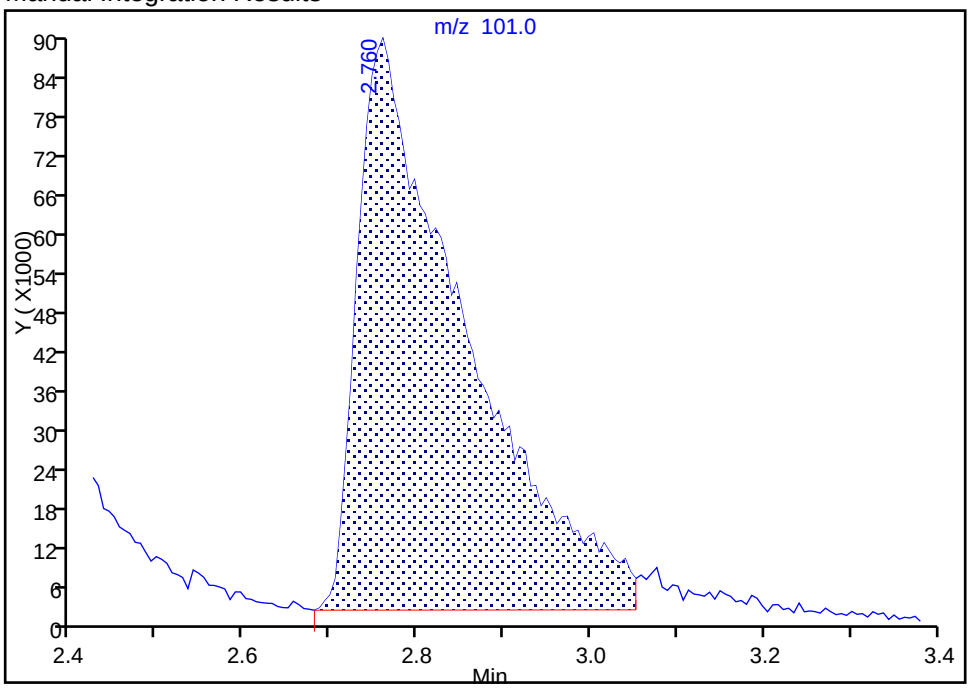
Processing Integration Results

RT: 2.76
Area: 767374
Amount: 107.6055
Amount Units: ug/L



Manual Integration Results

RT: 2.76
Area: 753469
Amount: 118.5514
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:32:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

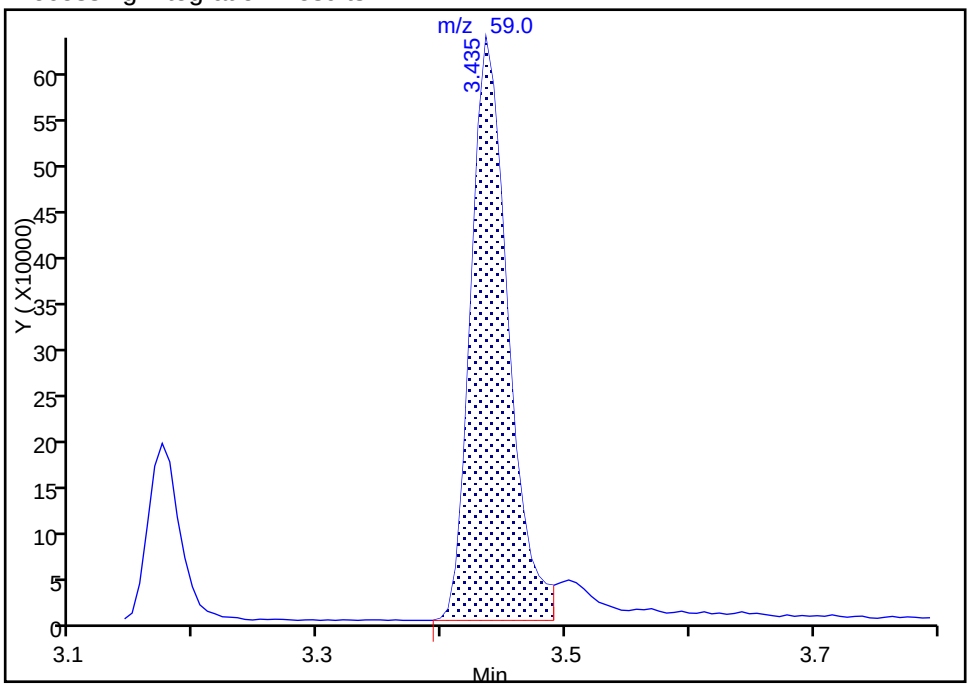
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1034.D
Injection Date: 19-Aug-2017 16:48:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 75 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

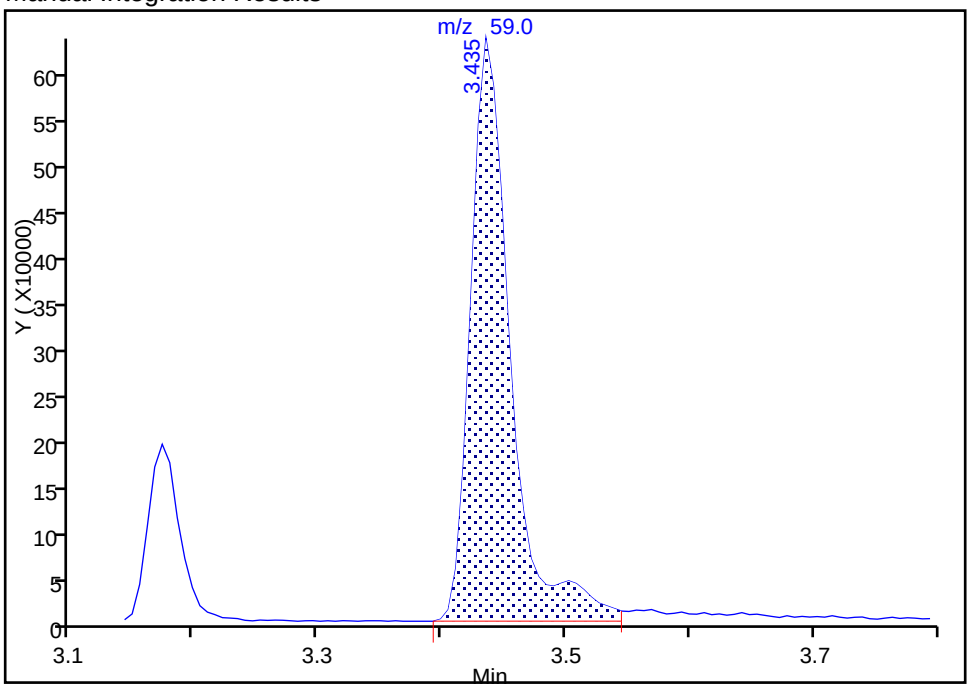
Processing Integration Results

RT: 3.44
Area: 1334187
Amount: 1045.7899
Amount Units: ug/L



Manual Integration Results

RT: 3.44
Area: 1424020
Amount: 1106.4657
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:38:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

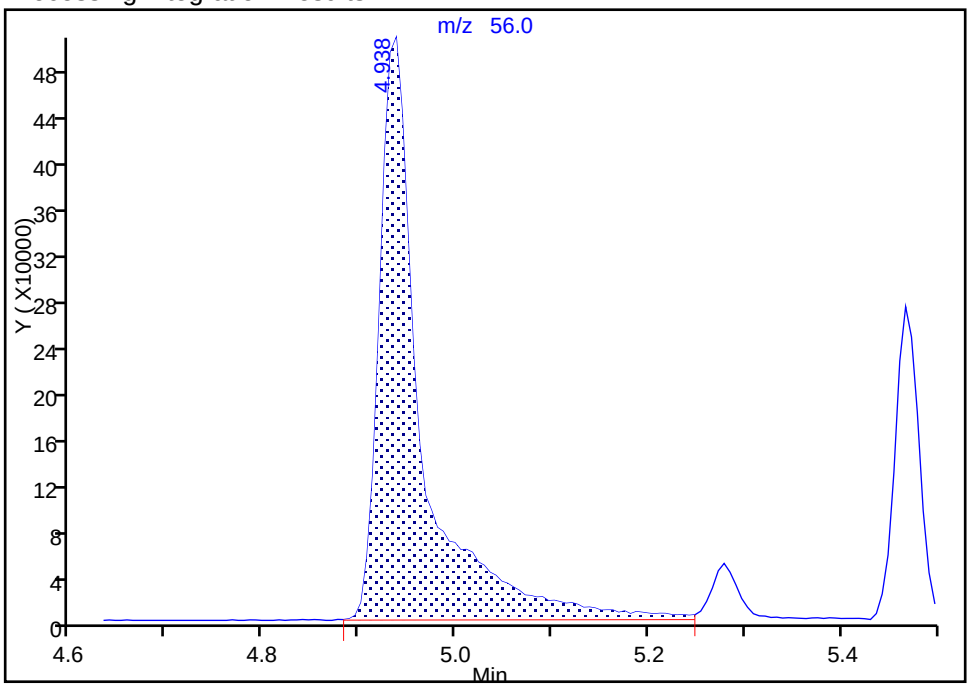
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1034.D
Injection Date: 19-Aug-2017 16:48:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 75 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

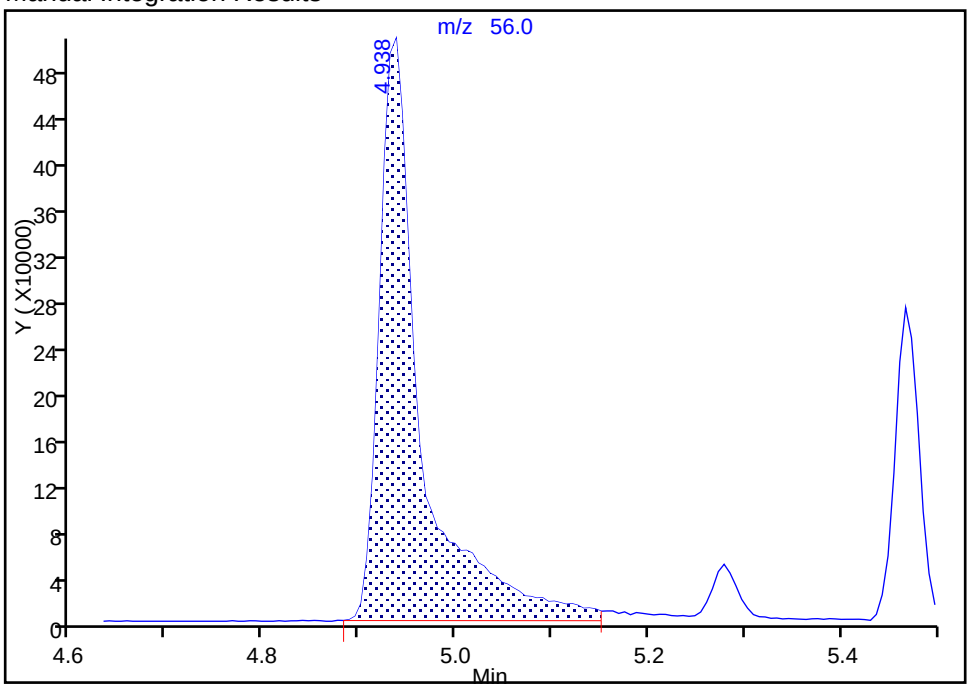
Processing Integration Results

RT: 4.94
Area: 1575192
Amount: 112.3441
Amount Units: ug/L



Manual Integration Results

RT: 4.94
Area: 1539359
Amount: 113.7897
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:39:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

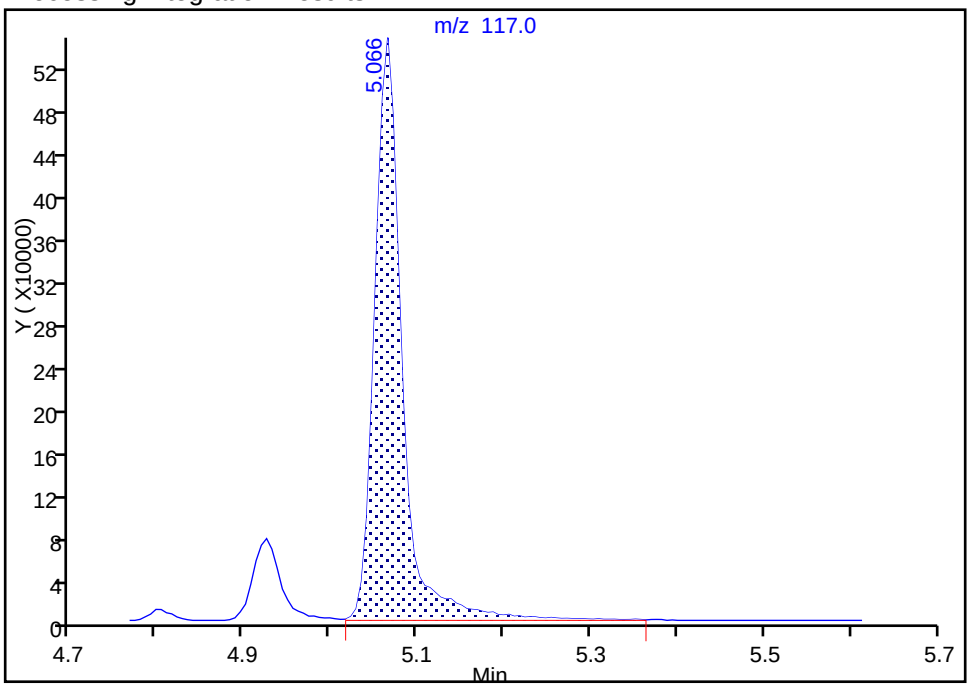
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1034.D
Injection Date: 19-Aug-2017 16:48:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 75 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

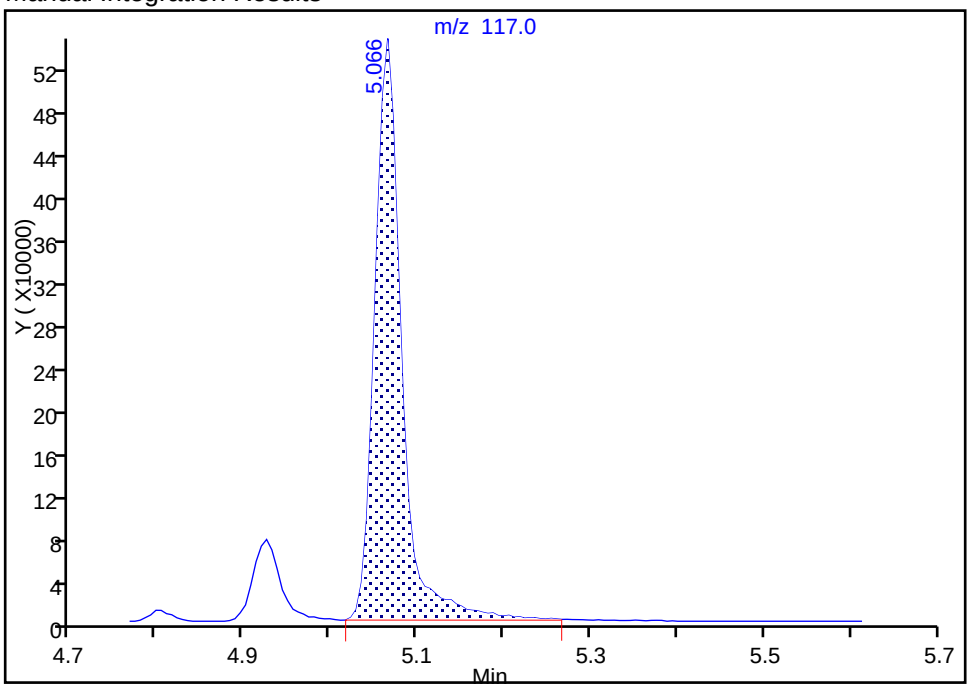
Processing Integration Results

RT: 5.07
Area: 1204412
Amount: 119.6173
Amount Units: ug/L



Manual Integration Results

RT: 5.07
Area: 1181977
Amount: 117.7170
Amount Units: ug/L



Reviewer: archern, 20-Aug-2017 11:39:54
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCVIS 480-374316/2 Calibration Date: 08/28/2017 20:43

Instrument ID: HP5973S Calib Start Date: 08/19/2017 14:06

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 08/19/2017 16:48

Lab File ID: S1366.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.132	1.261	0.1000	27.8	25.0	11.4	50.0
Chloromethane	Ave	1.470	1.587	0.1000	27.0	25.0	8.0	20.0
Vinyl chloride	Ave	1.330	1.399	0.1000	26.3	25.0	5.2	20.0
Butadiene	Ave	1.291	1.343		26.0	25.0	4.0	20.0
Bromomethane	Ave	0.9156	0.8559	0.1000	23.4	25.0	-6.5	50.0
Chloroethane	Lin1		0.8606	0.1000	25.7	25.0	2.9	50.0
Dichlorofluoromethane	Ave	2.078	1.902		22.9	25.0	-8.5	20.0
Trichlorofluoromethane	Ave	1.666	1.718	0.1000	25.8	25.0	3.1	20.0
Ethyl ether	Ave	1.121	1.091		24.3	25.0	-2.7	20.0
Acrolein	Ave	0.2046	0.1779		109	125	-13.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.8522	0.8045	0.1000	23.6	25.0	-5.6	20.0
1,1-Dichloroethene	Ave	0.9917	0.9143	0.1000	23.0	25.0	-7.8	20.0
Acetone	Ave	0.4512	0.5552	0.1000	154	125	23.0	50.0
Iodomethane	Ave	1.646	1.607		24.4	25.0	-2.3	20.0
Carbon disulfide	Ave	3.157	2.783	0.1000	22.0	25.0	-11.8	20.0
Allyl chloride	Ave	1.886	1.889		25.0	25.0	0.2	20.0
Methyl acetate	Ave	1.052	0.998	0.1000	119	125	-5.1	50.0
Methylene Chloride	Ave	1.242	1.122	0.1000	22.6	25.0	-9.6	20.0
2-Methyl-2-propanol	Ave	0.1726	0.1669		242	250	-3.3	50.0
Methyl tert-butyl ether	Ave	3.689	3.400	0.1000	23.0	25.0	-7.8	20.0
trans-1,2-Dichloroethene	Ave	1.110	1.061	0.1000	23.9	25.0	-4.4	20.0
Acrylonitrile	Ave	0.5317	0.5241		246	250	-1.4	20.0
Hexane	Ave	1.642	1.598		24.3	25.0	-2.7	20.0
1,1-Dichloroethane	Ave	2.077	2.010	0.2000	24.2	25.0	-3.2	20.0
Vinyl acetate	Ave	2.446	2.572		52.6	50.0	5.1	20.0
2,2-Dichloropropane	Ave	1.295	1.373		26.5	25.0	6.0	20.0
cis-1,2-Dichloroethene	Ave	1.297	1.227	0.1000	23.7	25.0	-5.3	20.0
2-Butanone (MEK)	Ave	0.6649	0.7034	0.1000	132	125	5.8	20.0
Chlorobromomethane	Ave	0.6320	0.6039		23.9	25.0	-4.5	20.0
Tetrahydrofuran	Ave	0.4435	0.4231		47.7	50.0	-4.6	20.0
Chloroform	Ave	2.023	1.944	0.2000	24.0	25.0	-3.9	20.0
1,1,1-Trichloroethane	Ave	1.587	1.535	0.1000	24.2	25.0	-3.2	20.0
Cyclohexane	Ave	1.814	1.800	0.1000	24.8	25.0	-0.7	20.0
Carbon tetrachloride	Ave	1.346	1.341	0.1000	24.9	25.0	-0.4	20.0
1,1-Dichloropropene	Ave	1.496	1.439		24.0	25.0	-3.8	20.0
Benzene	Ave	4.604	4.490	0.5000	24.4	25.0	-2.5	20.0
Isobutyl alcohol	Ave	0.0664	0.0708		666	625	6.6	50.0
1,2-Dichloroethane	Ave	1.801	1.735	0.1000	24.1	25.0	-3.7	20.0
n-Heptane	Ave	1.742	1.729		24.8	25.0	-0.7	20.0
Trichloroethene	Ave	1.165	1.111	0.2000	23.8	25.0	-4.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCVIS 480-374316/2 Calibration Date: 08/28/2017 20:43

Instrument ID: HP5973S Calib Start Date: 08/19/2017 14:06

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 08/19/2017 16:48

Lab File ID: S1366.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	1.877	1.837	0.1000	24.5	25.0	-2.1	20.0
1,2-Dichloropropane	Ave	1.200	1.142	0.1000	23.8	25.0	-4.8	20.0
Dibromomethane	Ave	0.7443	0.6845	0.1000	23.0	25.0	-8.0	20.0
1,4-Dioxane	Lin1		0.0079		468	500	-6.4	50.0
Bromodichloromethane	Ave	1.430	1.385	0.2000	24.2	25.0	-3.2	20.0
2-Chloroethyl vinyl ether	Ave	0.8466	0.7988		23.6	25.0	-5.6	20.0
cis-1,3-Dichloropropene	Ave	1.848	1.786	0.2000	24.2	25.0	-3.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6653	0.6749	0.1000	127	125	1.5	20.0
Toluene	Ave	1.474	1.424	0.4000	24.2	25.0	-3.4	20.0
trans-1,3-Dichloropropene	Ave	0.8164	0.8237	0.1000	25.2	25.0	0.9	20.0
Ethyl methacrylate	Ave	0.7519	0.7672		25.5	25.0	2.0	20.0
1,1,2-Trichloroethane	Ave	0.4334	0.4238	0.1000	24.4	25.0	-2.2	20.0
Tetrachloroethene	Ave	0.6292	0.6162	0.2000	24.5	25.0	-2.1	20.0
1,3-Dichloropropane	Ave	0.9355	0.9232		24.7	25.0	-1.3	20.0
2-Hexanone	Ave	0.4729	0.5159	0.1000	136	125	9.1	20.0
Dibromochloromethane	Ave	0.5040	0.5261	0.1000	26.1	25.0	4.4	20.0
1,2-Dibromoethane	Ave	0.5510	0.5332		24.2	25.0	-3.2	20.0
Chlorobenzene	Ave	1.672	1.613	0.5000	24.1	25.0	-3.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5504	0.5575		25.3	25.0	1.3	20.0
Ethylbenzene	Ave	2.672	2.663	0.1000	24.9	25.0	-0.3	20.0
m,p-Xylene	Ave	1.113	1.060	0.1000	23.8	25.0	-4.8	20.0
o-Xylene	Ave	1.065	1.054	0.3000	24.7	25.0	-1.1	20.0
Styrene	Ave	1.804	1.772	0.3000	24.6	25.0	-1.8	20.0
Bromoform	Ave	0.3191	0.3168	0.1000	24.8	25.0	-0.7	50.0
Isopropylbenzene	Ave	2.785	2.673	0.1000	24.0	25.0	-4.0	20.0
Bromobenzene	Ave	0.7450	0.7012		23.5	25.0	-5.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7168	0.6895	0.3000	24.0	25.0	-3.8	20.0
1,2,3-Trichloropropane	Ave	0.2477	0.2383		24.0	25.0	-3.8	20.0
N-Propylbenzene	Ave	3.151	3.036		24.1	25.0	-3.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1926	0.1757		22.8	25.0	-8.8	50.0
2-Chlorotoluene	Ave	0.6682	0.6206		23.2	25.0	-7.1	20.0
1,3,5-Trimethylbenzene	Ave	2.322	2.262		24.4	25.0	-2.6	20.0
4-Chlorotoluene	Ave	0.6976	0.6598		23.6	25.0	-5.4	20.0
tert-Butylbenzene	Ave	0.5415	0.5058		23.4	25.0	-6.6	20.0
1,2,4-Trimethylbenzene	Ave	2.367	2.313		24.4	25.0	-2.3	20.0
sec-Butylbenzene	Ave	2.887	2.859		24.8	25.0	-1.0	20.0
1,3-Dichlorobenzene	Ave	1.411	1.349	0.6000	23.9	25.0	-4.4	20.0
4-Isopropyltoluene	Ave	2.502	2.471		24.7	25.0	-1.2	20.0
1,4-Dichlorobenzene	Ave	1.457	1.385	0.5000	23.8	25.0	-4.9	20.0
n-Butylbenzene	Ave	2.158	2.143		24.8	25.0	-0.7	20.0
1,2-Dichlorobenzene	Ave	1.364	1.301	0.4000	23.8	25.0	-4.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCVIS 480-374316/2 Calibration Date: 08/28/2017 20:43

Instrument ID: HP5973S Calib Start Date: 08/19/2017 14:06

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 08/19/2017 16:48

Lab File ID: S1366.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1310	0.1288	0.0500	24.6	25.0	-1.7	50.0
1,2,4-Trichlorobenzene	Ave	0.9498	0.9188	0.2000	24.2	25.0	-3.3	20.0
Hexachlorobutadiene	Ave	0.4292	0.4108		23.9	25.0	-4.3	20.0
Naphthalene	Ave	2.434	2.316		23.8	25.0	-4.9	20.0
1,2,3-Trichlorobenzene	Ave	0.8709	0.8537		24.5	25.0	-2.0	20.0
Dibromofluoromethane (Surr)	Ave	1.190	1.179		24.8	25.0	-0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7971	0.8057		25.3	25.0	1.1	20.0
Toluene-d8 (Surr)	Ave	2.409	2.448		25.4	25.0	1.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7881	0.7741		24.6	25.0	-1.8	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1366.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 28-Aug-2017 20:43:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0065208-002
Operator ID: AS Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Aug-2017 09:35:21 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: sonkera Date: 28-Aug-2017 21:24:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	98	166225	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.551	8.551	0.000	85	335085	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	52	340966	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	83	196058	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	133934	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	7.061	7.061	0.000	92	820270	25.0	25.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	90	259376	25.0	24.6	
10 Dichlorodifluoromethane	85	1.300	1.300	0.000	86	209611	25.0	27.8	
12 Chloromethane	50	1.495	1.495	0.000	88	263805	25.0	27.0	
13 Vinyl chloride	62	1.580	1.580	0.000	97	232615	25.0	26.3	
151 Butadiene	54	1.604	1.604	0.000	87	223275	25.0	26.0	
14 Bromomethane	94	1.920	1.920	0.000	90	142271	25.0	23.4	M
15 Chloroethane	64	1.999	1.999	0.000	93	143058	25.0	25.7	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	68	285624	25.0	25.8	
16 Dichlorofluoromethane	67	2.225	2.225	0.000	95	316204	25.0	22.9	
18 Ethyl ether	59	2.523	2.523	0.000	93	181423	25.0	24.3	
20 Acrolein	56	2.699	2.699	0.000	94	147839	125.0	108.7	
22 1,1-Dichloroethene	96	2.766	2.766	0.000	82	151972	25.0	23.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.766	2.766	0.000	46	133733	25.0	23.6	M
23 Acetone	43	2.863	2.863	0.000	99	461472	125.0	153.8	
25 Iodomethane	142	2.936	2.936	0.000	98	267131	25.0	24.4	
26 Carbon disulfide	76	2.961	2.961	0.000	99	462588	25.0	22.0	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	85	314039	25.0	25.0	
27 Methyl acetate	43	3.168	3.168	0.000	96	829439	125.0	118.6	
30 Methylene Chloride	84	3.265	3.265	0.000	89	186529	25.0	22.6	
31 2-Methyl-2-propanol	59	3.429	3.429	0.000	96	277436	250.0	241.8	
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	88	565200	25.0	23.0	
34 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	82	176422	25.0	23.9	
33 Acrylonitrile	53	3.551	3.551	0.000	98	871210	250.0	246.5	
35 Hexane	57	3.709	3.709	0.000	95	265697	25.0	24.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.928	3.928	0.000	97	334070	25.0	24.2	
37 Vinyl acetate	43	3.983	3.983	0.000	98	854912	50.0	52.6	
44 2,2-Dichloropropane	77	4.451	4.451	0.000	92	228218	25.0	26.5	
45 cis-1,2-Dichloroethene	96	4.482	4.482	0.000	69	204038	25.0	23.7	
43 2-Butanone (MEK)	43	4.518	4.518	0.000	94	584568	125.0	132.2	
48 Chlorobromomethane	128	4.725	4.725	0.000	93	100378	25.0	23.9	
49 Tetrahydrofuran	42	4.749	4.749	0.000	85	140657	50.0	47.7	
50 Chloroform	83	4.798	4.798	0.000	81	323145	25.0	24.0	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	91	255237	25.0	24.2	
52 Cyclohexane	56	4.932	4.932	0.000	93	299259	25.0	24.8	
55 Carbon tetrachloride	117	5.066	5.066	0.000	78	222890	25.0	24.9	
54 1,1-Dichloropropene	75	5.078	5.078	0.000	92	239169	25.0	24.0	
57 Benzene	78	5.279	5.279	0.000	96	746410	25.0	24.4	
53 Isobutyl alcohol	43	5.279	5.279	0.000	59	294153	625.0	666.3	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	72	288405	25.0	24.1	
59 n-Heptane	43	5.467	5.467	0.000	95	287475	25.0	24.8	
62 Trichloroethene	95	5.893	5.893	0.000	91	184672	25.0	23.8	
64 Methylcyclohexane	83	6.015	6.015	0.000	93	305392	25.0	24.5	
65 1,2-Dichloropropane	63	6.130	6.130	0.000	89	189754	25.0	23.8	
67 Dibromomethane	93	6.264	6.264	0.000	91	113773	25.0	23.0	
66 1,4-Dioxane	88	6.276	6.276	0.000	55	53141	500.0	467.8	
68 Dichlorobromomethane	83	6.416	6.416	0.000	92	230157	25.0	24.2	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	94	132783	25.0	23.6	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	88	296915	25.0	24.2	
73 4-Methyl-2-pentanone (MIBK	43	6.976	6.976	0.000	97	1130809	125.0	126.8	
74 Toluene	92	7.128	7.128	0.000	95	477135	25.0	24.2	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	95	275994	25.0	25.2	
75 Ethyl methacrylate	69	7.450	7.450	0.000	72	257066	25.0	25.5	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	87	141997	25.0	24.4	
81 Tetrachloroethene	166	7.669	7.669	0.000	89	206480	25.0	24.5	
82 1,3-Dichloropropane	76	7.755	7.755	0.000	96	309358	25.0	24.7	
80 2-Hexanone	43	7.821	7.821	0.000	95	864385	125.0	136.4	
83 Chlorodibromomethane	129	7.992	7.992	0.000	89	176273	25.0	26.1	
84 Ethylene Dibromide	107	8.101	8.101	0.000	96	178661	25.0	24.2	
87 Chlorobenzene	112	8.582	8.582	0.000	93	540526	25.0	24.1	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	40	186796	25.0	25.3	
88 Ethylbenzene	91	8.673	8.673	0.000	36	892322	25.0	24.9	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	355156	25.0	23.8	
91 o-Xylene	106	9.221	9.221	0.000	97	353013	25.0	24.7	
92 Styrene	104	9.251	9.251	0.000	95	593778	25.0	24.6	
95 Bromoform	173	9.494	9.494	0.000	95	106142	25.0	24.8	
94 Isopropylbenzene	105	9.604	9.604	0.000	96	911253	25.0	24.0	
101 Bromobenzene	156	9.945	9.945	0.000	94	239085	25.0	23.5	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	80	235092	25.0	24.0	
100 1,2,3-Trichloropropane	110	10.024	10.024	0.000	48	81242	25.0	24.0	
99 N-Propylbenzene	91	10.030	10.030	0.000	98	1035120	25.0	24.1	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	38	59918	25.0	22.8	
103 2-Chlorotoluene	126	10.127	10.127	0.000	93	211613	25.0	23.2	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	85	771349	25.0	24.4	
105 4-Chlorotoluene	126	10.237	10.237	0.000	97	224964	25.0	23.6	
106 tert-Butylbenzene	134	10.516	10.516	0.000	92	172448	25.0	23.4	
107 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	36	788522	25.0	24.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.723	10.723	0.000	95	974772	25.0	24.8	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	96	842632	25.0	24.7	
111 1,3-Dichlorobenzene	146	10.863	10.863	0.000	70	460019	25.0	23.9	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	95	472349	25.0	23.8	
115 n-Butylbenzene	91	11.246	11.246	0.000	95	730812	25.0	24.8	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	93	443682	25.0	23.8	
117 1,2-Dibromo-3-Chloropropan	75	12.019	12.019	0.000	73	43906	25.0	24.6	
119 1,2,4-Trichlorobenzene	180	12.694	12.694	0.000	91	313292	25.0	24.2	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	96	140059	25.0	23.9	
121 Naphthalene	128	12.907	12.907	0.000	97	789559	25.0	23.8	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	95	291084	25.0	24.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00238	Amount Added:	12.50	Units: uL	
8260 CORP mix_00106	Amount Added:	12.50	Units: uL	
S_8260_IS_00258	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent

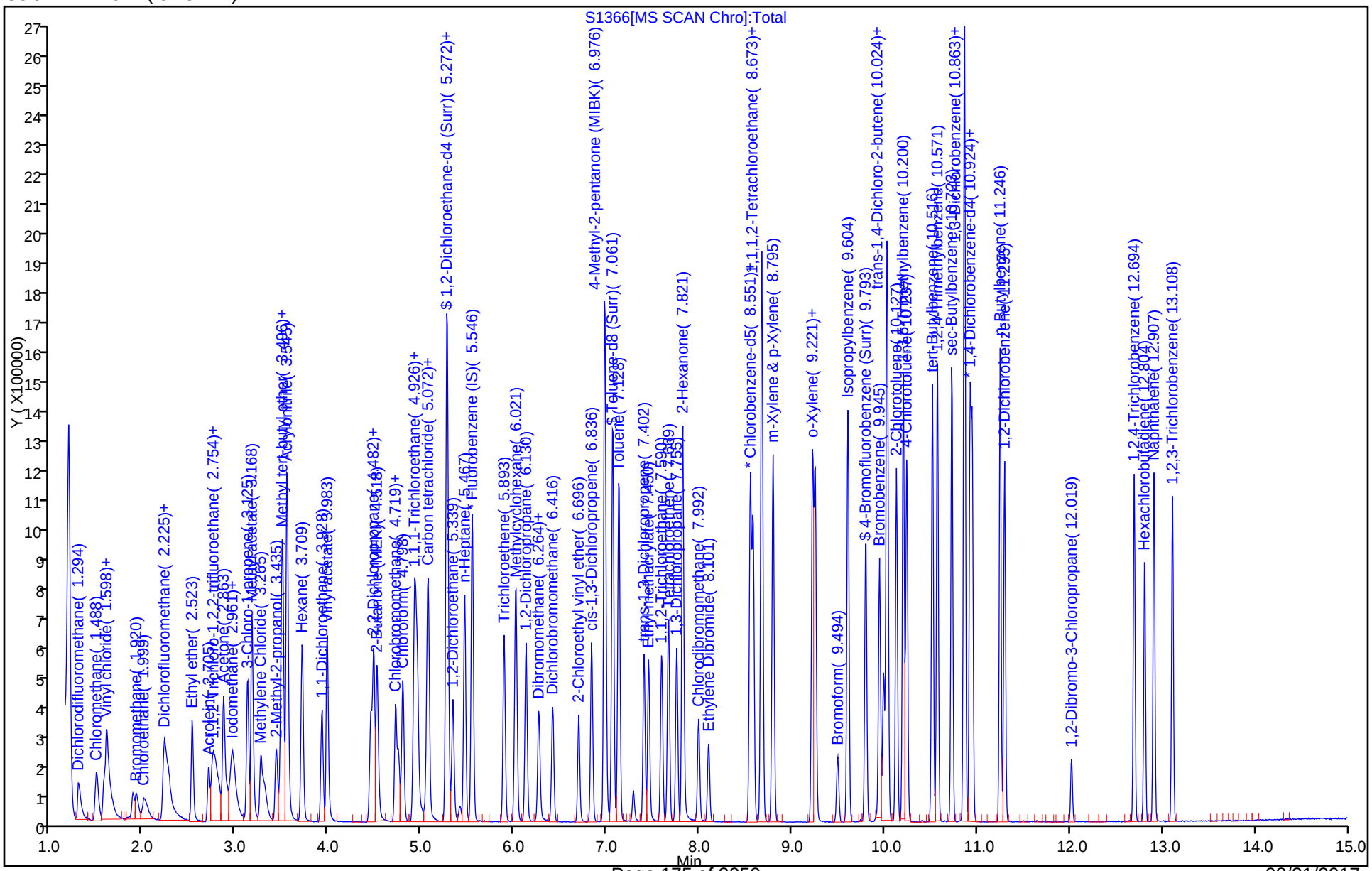
Report Date: 29-Aug-2017 09:35:22 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1366.D

Injection Date:	28-Aug-2017 20:43:30	Instrument ID:	HP5973S	Operator ID:	AS
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

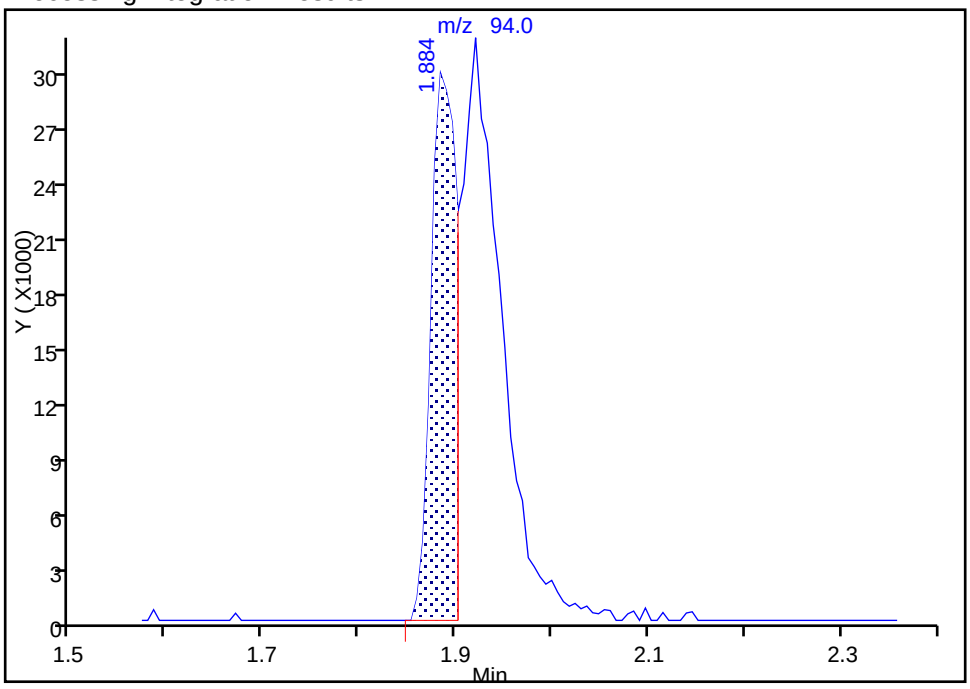
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1366.D
Injection Date: 28-Aug-2017 20:43:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: AS ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

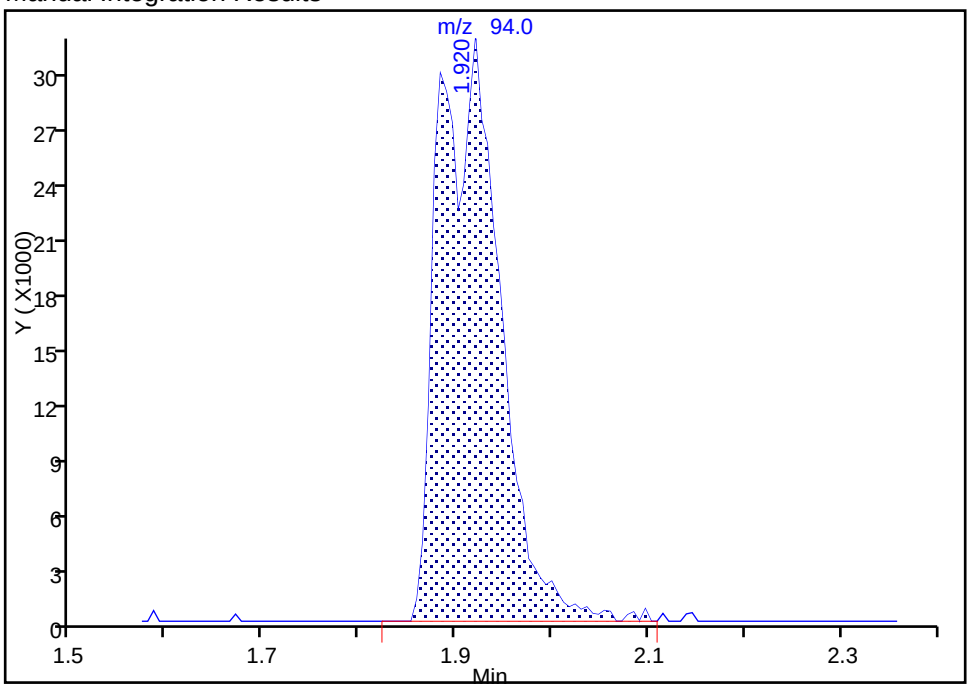
Processing Integration Results

RT: 1.88
Area: 55060
Amount: 9.044005
Amount Units: ug/L



Manual Integration Results

RT: 1.92
Area: 142271
Amount: 23.369044
Amount Units: ug/L



Reviewer: sonkera, 28-Aug-2017 21:16:04
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

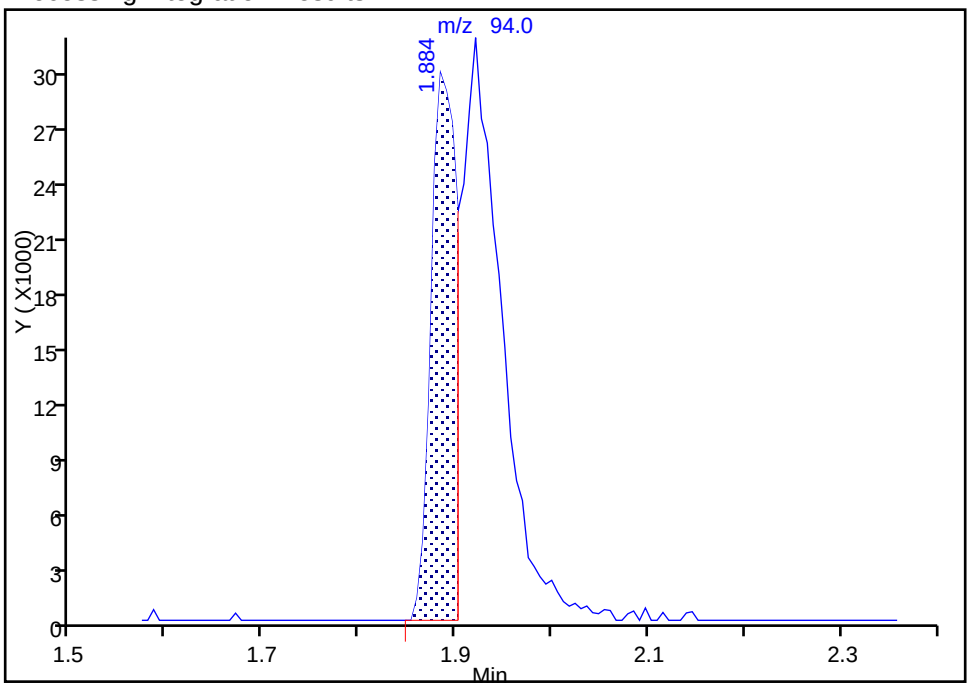
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1366.D
Injection Date: 28-Aug-2017 20:43:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: AS ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

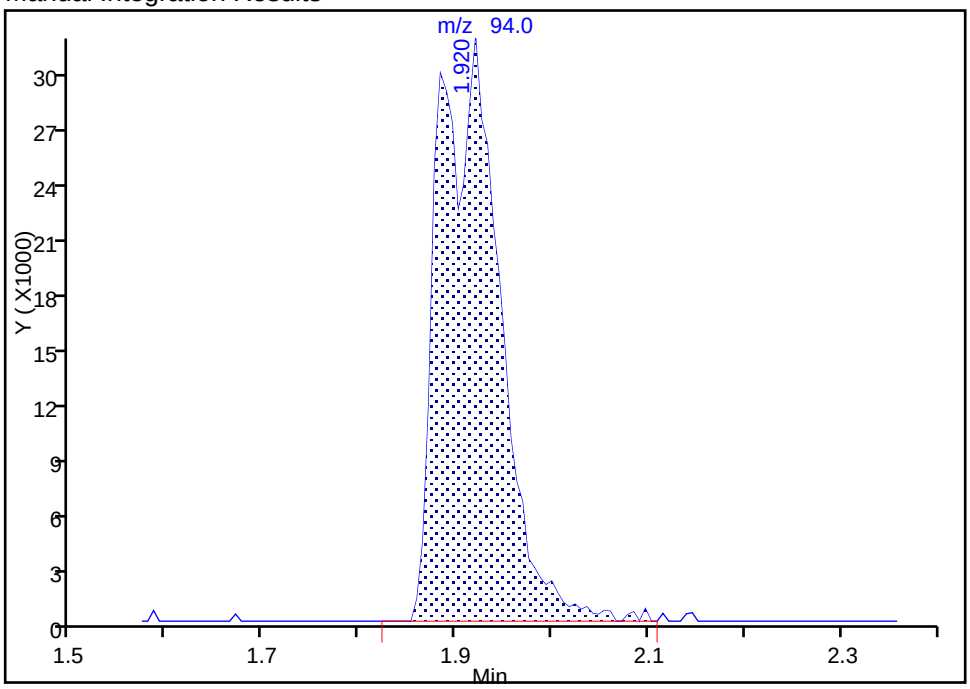
Processing Integration Results

RT: 1.88
Area: 55060
Amount: 9.044005
Amount Units: ug/L



Manual Integration Results

RT: 1.92
Area: 142271
Amount: 23.369044
Amount Units: ug/L



Reviewer: sonkera, 28-Aug-2017 21:16:17
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

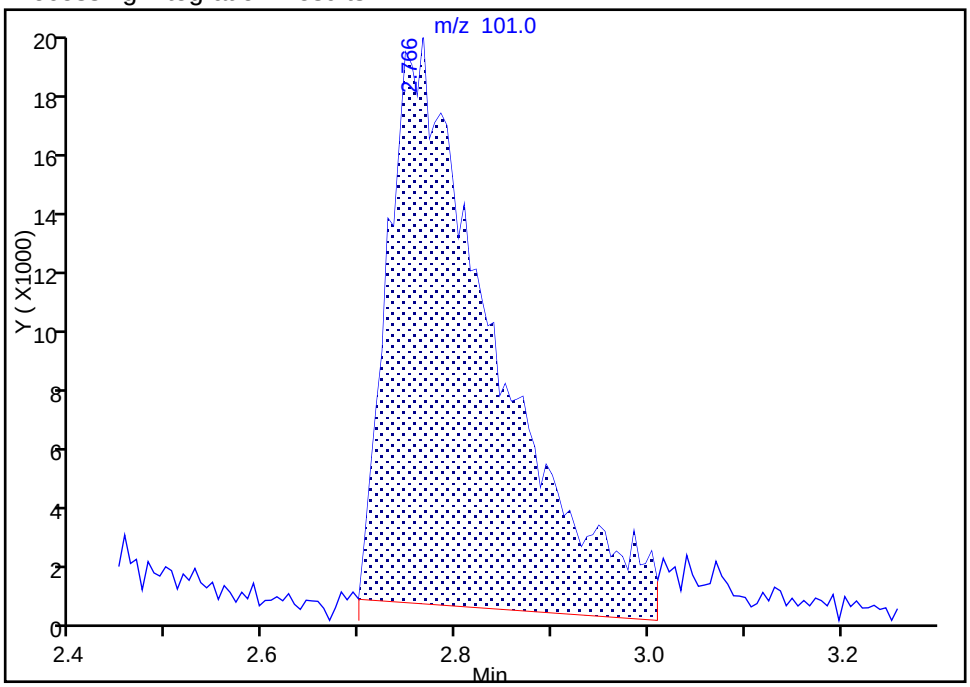
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1366.D
Injection Date: 28-Aug-2017 20:43:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: AS ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

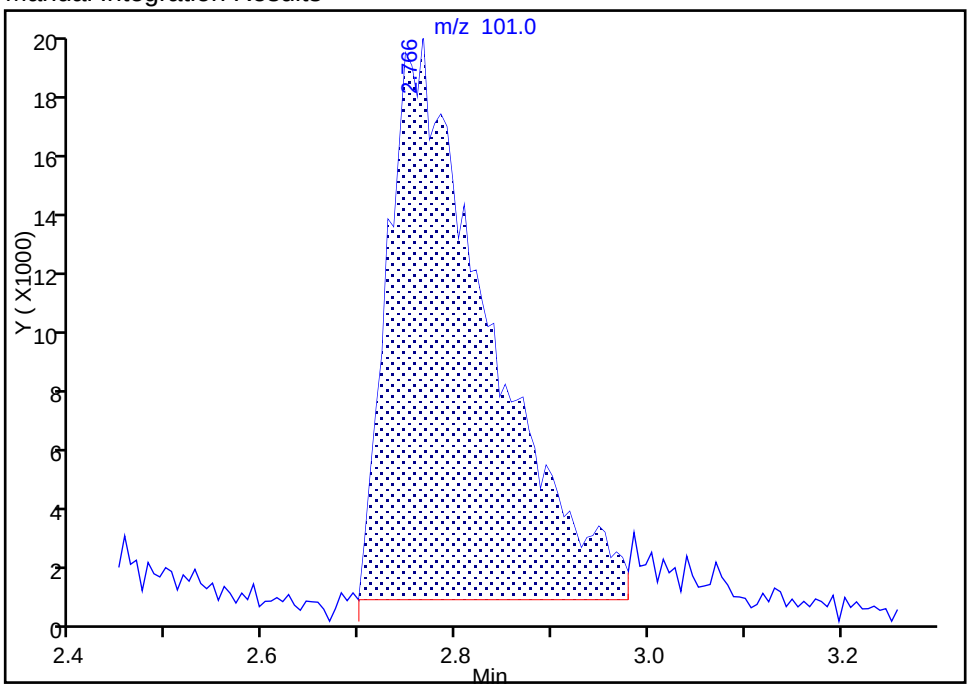
Processing Integration Results

RT: 2.77
Area: 143074
Amount: 25.250522
Amount Units: ug/L



Manual Integration Results

RT: 2.77
Area: 133733
Amount: 23.601969
Amount Units: ug/L



Reviewer: archern, 29-Aug-2017 09:35:14
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1025.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	19-Aug-2017 13:19:30	ALS Bottle#:	66	Worklist Smp#:	6
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0064982-006				
Operator ID:	LH	Instrument ID:	HP5973S		
Method:	\\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	19-Aug-2017 13:27:56	Calib Date:	18-Aug-2017 00:45:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973S\20170817-64941.b\S0955.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK042				
First Level Reviewer: HillL		Date:	19-Aug-2017 13:27:56		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.875	3.875	0.000	0	301459	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

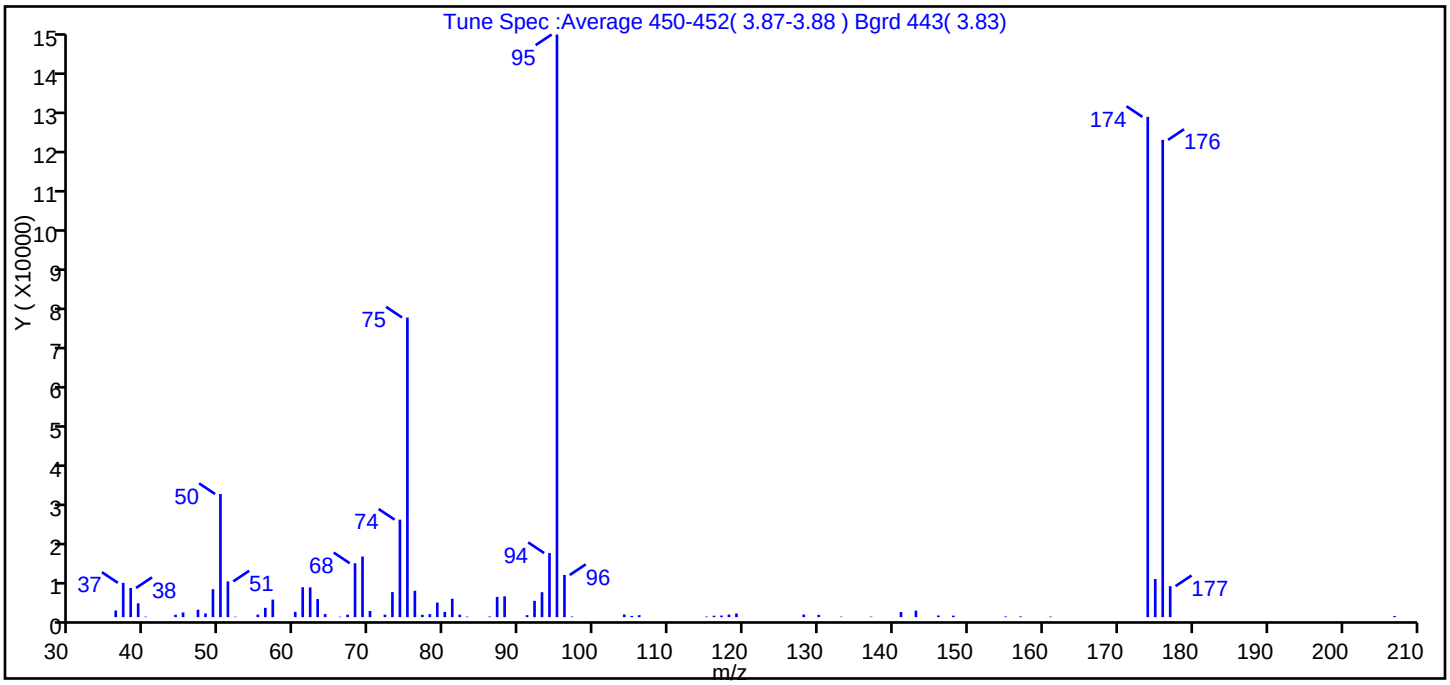
BFB_WRK_00064 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1025.D
Injection Date: 19-Aug-2017 13:19:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 66 Worklist Smp#: 6
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.1
75	30 to 60% of m/z 95	51.4
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	85.9
175	5 to 9% of m/z 174	6.6 (7.6)
176	Greater than 95% but less than 101% of m/z 174	81.9 (95.4)
177	5 to 9% of m/z 176	5.3 (6.5)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1025.D\S-8260.rslt\spectra.d
Injection Date: 19-Aug-2017 13:19:30
Spectrum: Tune Spec :Average 450-452(3.87-3.88) Bgrd 443(3.83)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1618	62.00	7250	82.00	608	118.00	640
37.00	8369	63.00	4418	83.00	136	119.00	897
38.00	7113	64.00	764	86.00	160	128.00	633
39.00	3370	66.00	118	87.00	4938	130.00	559
40.00	125	67.00	605	88.00	5061	133.00	119
44.00	601	68.00	13151	91.00	484	137.00	126
45.00	1149	69.00	14788	92.00	3972	141.00	1267
47.00	1815	70.00	1506	93.00	6082	143.00	1602
48.00	905	72.00	615	94.00	15633	146.00	398
49.00	6820	73.00	6105	95.00	142144	148.00	364
50.00	30032	74.00	23784	96.00	10286	155.00	171
51.00	8716	75.00	73096	97.00	151	157.00	172
52.00	117	76.00	6431	104.00	650	161.00	134
55.00	625	77.00	564	105.00	302	174.00	122040
56.00	2266	78.00	733	106.00	491	175.00	9312
57.00	4277	79.00	3561	115.00	149	176.00	116432
60.00	1295	80.00	1281	116.00	343	177.00	7564
61.00	7297	81.00	4487	117.00	380	207.00	265

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1365.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	28-Aug-2017 20:10:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0065208-001				
Operator ID:	AS	Instrument ID:	HP5973S		
Method:	\\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	28-Aug-2017 20:29:23	Calib Date:	19-Aug-2017 21:03:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK013				
First Level Reviewer: sonkera		Date:	28-Aug-2017 20:29:23		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.845	3.845	0.000	0	211132	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

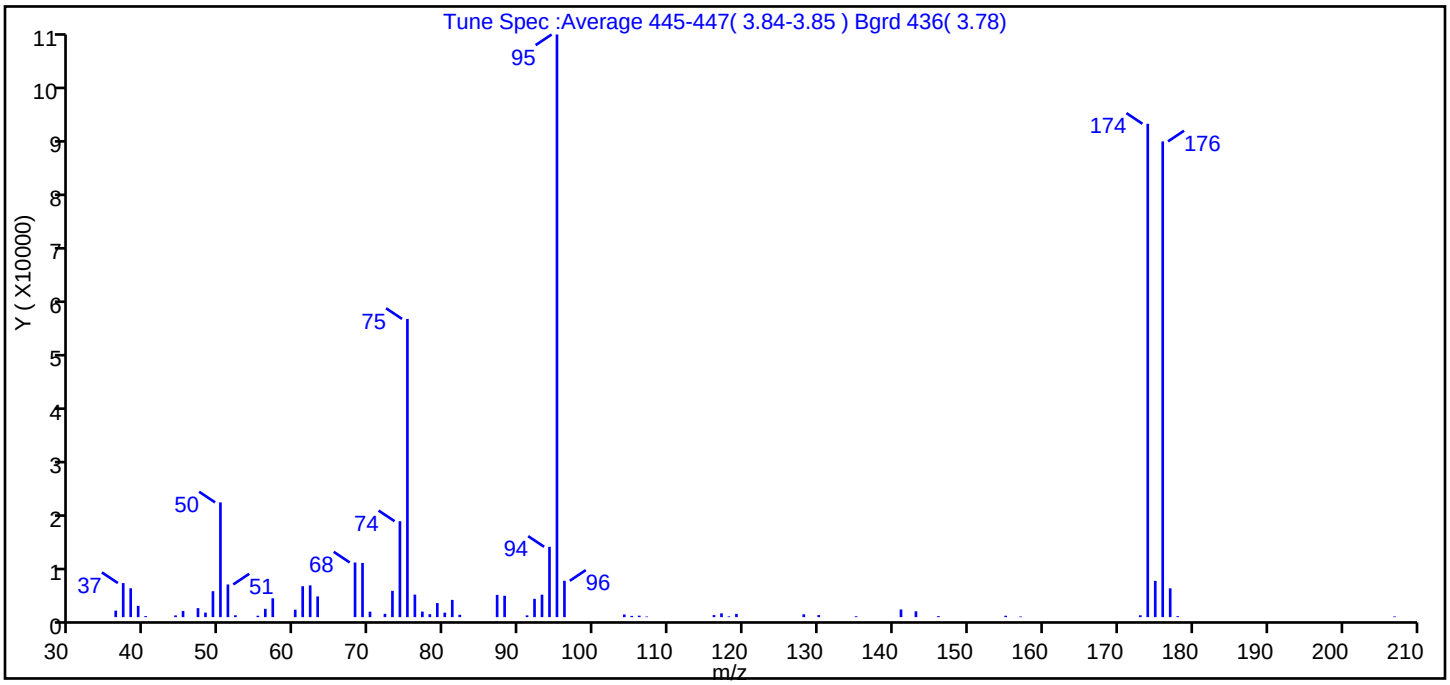
BFB_WRK_00064 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1365.D
Injection Date: 28-Aug-2017 20:10:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: AS ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.7
75	30 to 60% of m/z 95	51.2
96	5 to 9% of m/z 95	6.2
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	84.7
175	5 to 9% of m/z 174	6.2 (7.3)
176	Greater than 95% but less than 101% of m/z 174	81.7 (96.4)
177	5 to 9% of m/z 176	4.9 (6.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1365.D\S-8260.rslt\spectra.d
Injection Date: 28-Aug-2017 20:10:30
Spectrum: Tune Spec :Average 445-447(3.84-3.85) Bgrd 436(3.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 65

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1229	61.00	5839	87.00	4192	130.00	390
37.00	6428	62.00	6002	88.00	4035	135.00	168
38.00	5444	63.00	3911	91.00	338	141.00	1444
39.00	2132	68.00	10310	92.00	3453	143.00	1108
40.00	202	69.00	10218	93.00	4239	146.00	187
44.00	329	70.00	1033	94.00	13266	155.00	266
45.00	1164	72.00	628	95.00	109912	157.00	121
47.00	1699	73.00	4960	96.00	6857	173.00	350
48.00	856	74.00	18096	104.00	504	174.00	93064
49.00	4896	75.00	56256	105.00	239	175.00	6840
50.00	21648	76.00	4252	106.00	281	176.00	89744
51.00	6166	77.00	1046	107.00	117	177.00	5439
52.00	356	78.00	552	116.00	392	178.00	177
55.00	268	79.00	2655	117.00	718	207.00	134
56.00	1566	80.00	850	118.00	138		
57.00	3564	81.00	3256	119.00	613		
60.00	1408	82.00	445	128.00	537		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-374316/6

Matrix: Water | Lab File ID: S1370.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/28/2017 22:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 374316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-374316/6

Matrix: Water | Lab File ID: S1370.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/28/2017 22:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 374316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1370.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 28-Aug-2017 22:15:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0065208-006
Operator ID: AS Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Aug-2017 23:58:38 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: sonkera Date: 28-Aug-2017 23:58:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.546	5.546	0.000	98	154196	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.552	8.552	0.000	86	317600	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	94	303509	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	56	176353	25.0	24.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	124736	25.0	25.4	
$ 5 Toluene-d8 (Surr)	98	7.067	7.067	0.000	93	739192	25.0	24.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.793	0.006	91	238191	25.0	23.8	
10 Dichlorodifluoromethane	85		1.300					ND	
11 Chlorodifluoromethane	51		1.330					ND	
12 Chloromethane	50		1.495					ND	
13 Vinyl chloride	62		1.580					ND	
151 Butadiene	54		1.604					ND	
14 Bromomethane	94		1.920					ND	
15 Chloroethane	64		1.999					ND	
17 Trichlorofluoromethane	101		2.225					ND	
16 Dichlorofluoromethane	67		2.225					ND	
18 Ethyl ether	59		2.523					ND	
148 Ethanol	45		2.523					ND	
19 Propene oxide	58		2.614					ND	
20 Acrolein	56		2.699					ND	
22 1,1-Dichloroethene	96		2.766					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.766					ND	
23 Acetone	43		2.863					ND	
25 Iodomethane	142		2.936					ND	
26 Carbon disulfide	76		2.961					ND	
24 Isopropyl alcohol	45		3.052					ND	
28 3-Chloro-1-propene	41		3.125					ND	
27 Methyl acetate	43		3.168					ND	
29 Acetonitrile	40		3.174					ND	
30 Methylene Chloride	84		3.265					ND	
31 2-Methyl-2-propanol	59		3.429					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.490					ND	
34 trans-1,2-Dichloroethene	96		3.502					ND	
33 Acrylonitrile	53		3.551					ND	
35 Hexane	57		3.709					ND	
139 Halothane	117		3.822					ND	
39 1,1-Dichloroethane	63		3.928					ND	
36 Isopropyl ether	45		3.946					ND	
37 Vinyl acetate	43		3.983					ND	
40 2-Chloro-1,3-butadiene	53		3.989					ND	
38 1,1-Dimethoxyethane	75		4.025					ND	
41 Tert-butyl ethyl ether	59		4.293					ND	
44 2,2-Dichloropropane	77		4.451					ND	
45 cis-1,2-Dichloroethene	96		4.482					ND	
43 2-Butanone (MEK)	43		4.518					ND	
42 Ethyl acetate	43		4.561					ND	
46 Propionitrile	54		4.615					ND	
48 Chlorobromomethane	128		4.725					ND	
47 Methacrylonitrile	41		4.731					ND	
49 Tetrahydrofuran	42		4.749					ND	
50 Chloroform	83		4.798					ND	
51 1,1,1-Trichloroethane	97		4.920					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
52 Cyclohexane	56		4.932					ND	
55 Carbon tetrachloride	117		5.066					ND	
54 1,1-Dichloropropene	75		5.078					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
57 Benzene	78		5.279					ND	
53 Isobutyl alcohol	43		5.279					ND	
152 Isooctane	57		5.285					ND	
58 1,2-Dichloroethane	62		5.339					ND	
147 t-Amyl alcohol	59		5.339					ND	
56 Tert-amyl methyl ether	73		5.358					ND	
59 n-Heptane	43		5.467					ND	
1 1,4-Difluorobenzene	114		5.656					ND	
62 Trichloroethene	95		5.893					ND	
60 n-Butanol	56		5.905					ND	
64 Methylcyclohexane	83		6.015					ND	
142 Ethyl acrylate	55		6.015					ND	
65 1,2-Dichloropropane	63		6.130					ND	
63 Methyl methacrylate	41		6.228					ND	
67 Dibromomethane	93		6.264					ND	
66 1,4-Dioxane	88		6.276					ND	
68 Dichlorobromomethane	83		6.416					ND	
70 2-Nitropropane	43		6.666					ND	
69 2-Chloroethyl vinyl ether	63		6.696					ND	
71 Epichlorohydrin	57		6.787					ND	
72 cis-1,3-Dichloropropene	75		6.836					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.976					ND	
74 Toluene	92		7.128					ND	
76 2-Methylthiophene	97		7.268					ND	
77 trans-1,3-Dichloropropene	75		7.402					ND	
78 3-Methylthiophene	97		7.432					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		7.450					ND	
79 1,1,2-Trichloroethane	83		7.590					ND	
81 Tetrachloroethene	166		7.669					ND	
82 1,3-Dichloropropane	76		7.755					ND	
80 2-Hexanone	43		7.821					ND	
155 n-Butyl acetate	43		7.931					ND	
83 Chlorodibromomethane	129		7.992					ND	
84 Ethylene Dibromide	107		8.101					ND	
146 1-Chlorohexane	55		8.527					ND	
85 3-Chlorobenzotrifluoride	180		8.545					ND	
87 Chlorobenzene	112		8.582					ND	
86 4-Chlorobenzotrifluoride	180		8.606					ND	
89 1,1,1,2-Tetrachloroethane	131		8.673					ND	
88 Ethylbenzene	91		8.673					ND	
90 m-Xylene & p-Xylene	106		8.795					ND	
91 o-Xylene	106		9.221					ND	
92 Styrene	104		9.251					ND	
95 Bromoform	173		9.494					ND	
93 2-Chlorobenzotrifluoride	180		9.525					ND	
94 Isopropylbenzene	105		9.604					ND	
96 Cyclohexanone	55		9.762					ND	
101 Bromobenzene	156		9.945					ND	
97 1,1,2,2-Tetrachloroethane	83		9.987					ND	
100 1,2,3-Trichloropropane	110		10.024					ND	
99 N-Propylbenzene	91		10.030					ND	
98 trans-1,4-Dichloro-2-buten	53		10.036					ND	
103 2-Chlorotoluene	126		10.127					ND	
104 3-Chlorotoluene	126		10.194					ND	
102 1,3,5-Trimethylbenzene	105		10.200					ND	
105 4-Chlorotoluene	126		10.237					ND	
106 tert-Butylbenzene	134		10.516					ND	
107 1,2,4-Trimethylbenzene	105		10.571					ND	
108 Pentachloroethane	167		10.571					ND	
109 sec-Butylbenzene	105		10.723					ND	
110 4-Isopropyltoluene	119		10.863					ND	
111 1,3-Dichlorobenzene	146		10.863					ND	
114 Dicyclopentadiene	66		10.930					ND	
113 1,4-Dichlorobenzene	146		10.948					ND	
112 1,2,3-Trimethylbenzene	105		10.973					ND	
150 Benzyl chloride	126		11.088					ND	
115 n-Butylbenzene	91		11.246					ND	
116 1,2-Dichlorobenzene	146		11.295					ND	
117 1,2-Dibromo-3-Chloropropan	75		12.019					ND	
118 1,3,5-Trichlorobenzene	180		12.159					ND	
119 1,2,4-Trichlorobenzene	180		12.694					ND	
120 Hexachlorobutadiene	225		12.810					ND	
121 Naphthalene	128		12.907					ND	
122 1,2,3-Trichlorobenzene	180		13.108					ND	
149 2-Methylnaphthalene	142	13.820	13.820	0.000	1	740		0.0362	7
144 1-Bromopropane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
136 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
137 Methyl acrylate	1		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
135 Hexachloroethane	117		0.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

S_8260_IS_00258	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent

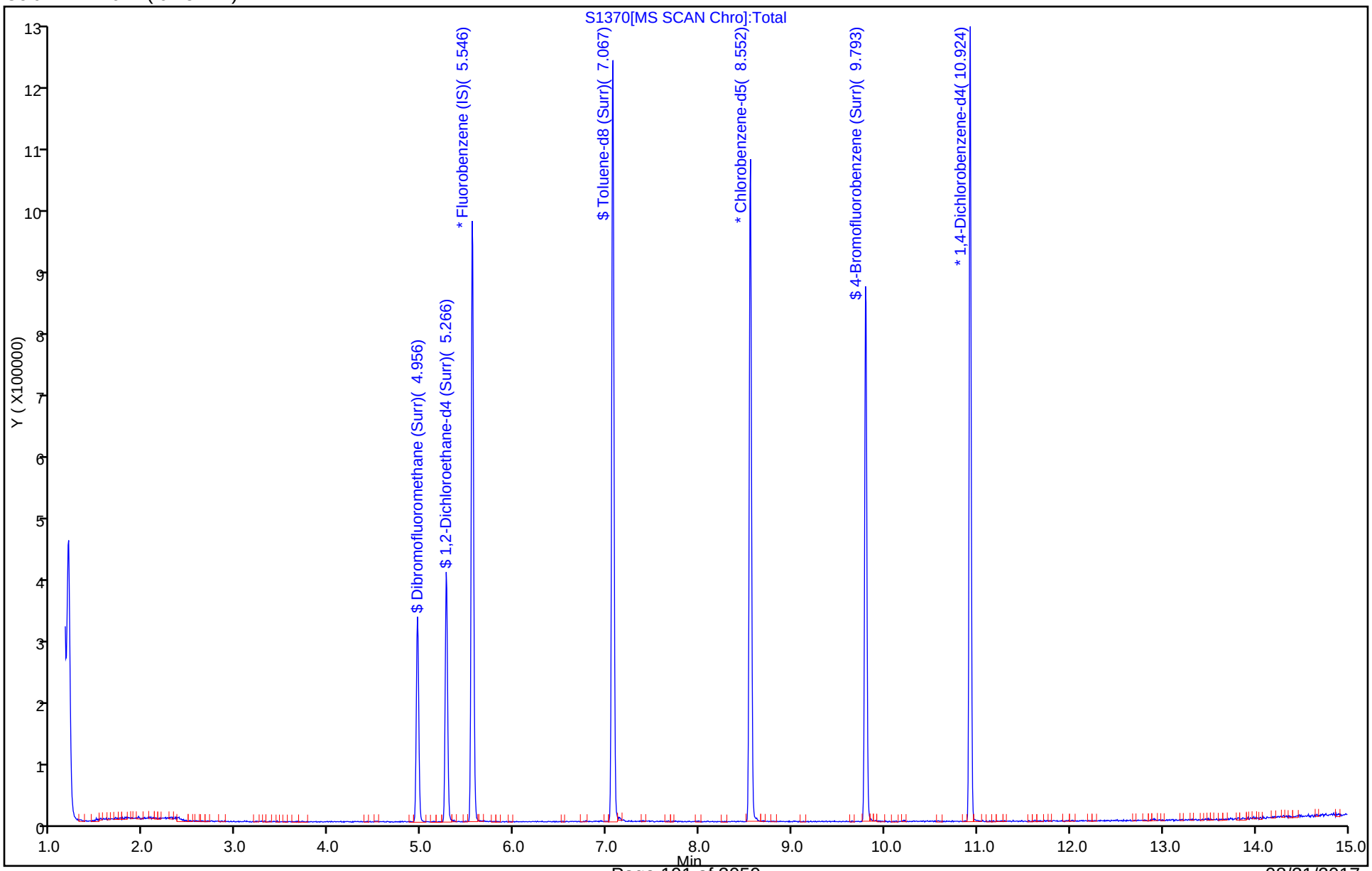
Report Date: 28-Aug-2017 23:58:39 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1370.D

Injection Date:	28-Aug-2017 22:15:30	Instrument ID:	HP5973S	Operator ID:	AS
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-374316/4

Matrix: Water | Lab File ID: S1368.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/28/2017 21:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 374316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	22.8		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.1		1.0	0.31
79-00-5	1,1,2-Trichloroethane	24.4		1.0	0.23
75-34-3	1,1-Dichloroethane	22.4		1.0	0.38
75-35-4	1,1-Dichloroethene	21.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.4		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	22.5		1.0	0.39
106-93-4	1,2-Dibromoethane	23.4		1.0	0.73
95-50-1	1,2-Dichlorobenzene	23.2		1.0	0.79
107-06-2	1,2-Dichloroethane	23.4		1.0	0.21
78-87-5	1,2-Dichloropropane	22.6		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.3		1.0	0.78
106-46-7	1,4-Dichlorobenzene	22.7		1.0	0.84
78-93-3	2-Butanone (MEK)	127		10	1.3
591-78-6	2-Hexanone	128		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	125		5.0	2.1
67-64-1	Acetone	142		10	3.0
71-43-2	Benzene	22.8		1.0	0.41
75-27-4	Bromodichloromethane	22.6		1.0	0.39
75-25-2	Bromoform	24.8		1.0	0.26
74-83-9	Bromomethane	22.2		1.0	0.69
75-15-0	Carbon disulfide	20.3		1.0	0.19
56-23-5	Carbon tetrachloride	22.9		1.0	0.27
108-90-7	Chlorobenzene	23.2		1.0	0.75
75-00-3	Chloroethane	23.1		1.0	0.32
67-66-3	Chloroform	22.7		1.0	0.34
74-87-3	Chloromethane	24.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	22.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	23.3		1.0	0.36
110-82-7	Cyclohexane	23.1		1.0	0.18
124-48-1	Dibromochloromethane	24.4		1.0	0.32
75-71-8	Dichlorodifluoromethane	24.0		1.0	0.68
100-41-4	Ethylbenzene	23.5		1.0	0.74
98-82-8	Isopropylbenzene	22.8		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-374316/4

Matrix: Water | Lab File ID: S1368.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/28/2017 21:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 374316 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	116		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.1		1.0	0.16
108-87-2	Methylcyclohexane	22.7		1.0	0.16
75-09-2	Methylene Chloride	22.3		1.0	0.44
100-42-5	Styrene	23.9		1.0	0.73
127-18-4	Tetrachloroethene	22.8		1.0	0.36
108-88-3	Toluene	23.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	22.7		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.7		1.0	0.37
79-01-6	Trichloroethene	22.1		1.0	0.46
75-69-4	Trichlorofluoromethane	23.4		1.0	0.88
75-01-4	Vinyl chloride	23.8		1.0	0.90
1330-20-7	Xylenes, Total	45.8		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1368.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 28-Aug-2017 21:29:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0065208-004
Operator ID: AS Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Aug-2017 09:36:30 Calib Date: 19-Aug-2017 21:03:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20170819-64982.b\S1045.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: sonkera Date: 28-Aug-2017 21:59:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.552	5.546	0.006	98	163357	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.551	8.551	0.000	85	327590	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.924	10.924	0.000	54	331251	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.956	4.956	0.000	82	192339	25.0	24.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.266	5.266	0.000	0	127369	25.0	24.5	
$ 5 Toluene-d8 (Surr)	98	7.067	7.061	0.006	91	790173	25.0	25.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.799	9.799	0.000	91	256016	25.0	24.8	
10 Dichlorodifluoromethane	85	1.294	1.300	-0.006	86	177495	25.0	24.0	
12 Chloromethane	50	1.495	1.495	0.000	89	239510	25.0	24.9	
13 Vinyl chloride	62	1.574	1.580	-0.006	79	206743	25.0	23.8	
151 Butadiene	54	1.598	1.604	-0.006	84	207684	25.0	24.6	
14 Bromomethane	94	1.914	1.920	-0.006	91	132983	25.0	22.2	
15 Chloroethane	64	2.006	1.999	0.007	98	126366	25.0	23.1	
16 Dichlorofluoromethane	67	2.225	2.225	0.000	79	287052	25.0	21.1	
17 Trichlorofluoromethane	101	2.225	2.225	0.000	66	254765	25.0	23.4	
18 Ethyl ether	59	2.529	2.523	0.006	91	175777	25.0	24.0	
20 Acrolein	56	2.705	2.699	0.006	89	139284	125.0	104.2	
22 1,1-Dichloroethene	96	2.760	2.766	-0.006	84	139925	25.0	21.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.754	2.754	-0.012	53	134165	25.0	24.1	M
23 Acetone	43	2.863	2.863	0.000	99	418502	125.0	141.9	
25 Iodomethane	142	2.930	2.936	-0.006	98	240075	25.0	22.3	
26 Carbon disulfide	76	2.961	2.961	0.000	99	419616	25.0	20.3	
28 3-Chloro-1-propene	41	3.125	3.125	0.000	84	277445	25.0	22.5	
27 Methyl acetate	43	3.168	3.168	0.000	96	797861	125.0	116.1	
30 Methylene Chloride	84	3.289	3.265	0.024	91	181036	25.0	22.3	
31 2-Methyl-2-propanol	59	3.435	3.429	0.006	94	246654	250.0	218.7	
32 Methyl tert-butyl ether	73	3.490	3.490	0.000	87	557235	25.0	23.1	
34 trans-1,2-Dichloroethene	96	3.502	3.502	0.000	70	164656	25.0	22.7	
33 Acrylonitrile	53	3.551	3.551	0.000	98	829621	250.0	238.8	
35 Hexane	57	3.715	3.709	0.006	92	244474	25.0	22.8	
39 1,1-Dichloroethane	63	3.928	3.928	0.000	86	304405	25.0	22.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.983	3.983	0.000	97	800592	50.0	50.1	
44 2,2-Dichloropropane	77	4.457	4.451	0.006	92	197353	25.0	23.3	
45 cis-1,2-Dichloroethene	96	4.488	4.482	0.006	69	188717	25.0	22.3	
43 2-Butanone (MEK)	43	4.518	4.518	0.000	94	550041	125.0	126.6	
48 Chlorobromomethane	128	4.719	4.725	-0.006	97	93841	25.0	22.7	
49 Tetrahydrofuran	42	4.749	4.749	0.000	89	133529	50.0	46.1	
50 Chloroform	83	4.798	4.798	0.000	71	300378	25.0	22.7	
51 1,1,1-Trichloroethane	97	4.920	4.920	0.000	92	231543	25.0	22.3	
52 Cyclohexane	56	4.938	4.932	0.006	93	274316	25.0	23.1	
55 Carbon tetrachloride	117	5.066	5.066	0.000	75	201433	25.0	22.9	
54 1,1-Dichloropropene	75	5.078	5.078	0.000	91	220162	25.0	22.5	
53 Isobutyl alcohol	43	5.279	5.279	0.001	58	267824	625.0	617.3	
57 Benzene	78	5.279	5.279	0.001	97	685739	25.0	22.8	
58 1,2-Dichloroethane	62	5.339	5.339	0.000	72	275630	25.0	23.4	
59 n-Heptane	43	5.467	5.467	0.000	94	270434	25.0	23.8	
62 Trichloroethene	95	5.893	5.893	0.000	95	167975	25.0	22.1	
64 Methylcyclohexane	83	6.021	6.015	0.006	93	278064	25.0	22.7	
65 1,2-Dichloropropane	63	6.130	6.130	0.000	87	177336	25.0	22.6	
67 Dibromomethane	93	6.264	6.264	0.000	90	115411	25.0	23.7	
66 1,4-Dioxane	88	6.276	6.276	0.000	43	46487	500.0	420.2	M
68 Dichlorobromomethane	83	6.416	6.416	0.000	91	211022	25.0	22.6	
69 2-Chloroethyl vinyl ether	63	6.696	6.696	0.000	93	132951	25.0	24.0	
72 cis-1,3-Dichloropropene	75	6.836	6.836	0.000	85	281575	25.0	23.3	
73 4-Methyl-2-pentanone (MIBK	43	6.976	6.976	0.000	97	1091907	125.0	125.3	
74 Toluene	92	7.128	7.128	0.000	92	448136	25.0	23.2	
77 trans-1,3-Dichloropropene	75	7.402	7.402	0.000	93	264454	25.0	24.7	
75 Ethyl methacrylate	69	7.450	7.450	0.000	73	244101	25.0	24.8	
79 1,1,2-Trichloroethane	83	7.590	7.590	0.000	89	138347	25.0	24.4	
81 Tetrachloroethene	166	7.669	7.669	0.000	94	187985	25.0	22.8	
82 1,3-Dichloropropane	76	7.755	7.755	0.001	96	290886	25.0	23.7	
80 2-Hexanone	43	7.821	7.821	0.000	94	793221	125.0	128.0	
83 Chlorodibromomethane	129	7.992	7.992	0.000	91	161120	25.0	24.4	
84 Ethylene Dibromide	107	8.095	8.101	-0.006	95	168964	25.0	23.4	
87 Chlorobenzene	112	8.582	8.582	0.000	92	507605	25.0	23.2	
88 Ethylbenzene	91	8.673	8.673	0.000	36	822317	25.0	23.5	
89 1,1,1,2-Tetrachloroethane	131	8.673	8.673	0.000	45	172568	25.0	23.9	
90 m-Xylene & p-Xylene	106	8.795	8.795	0.000	0	332196	25.0	22.8	
91 o-Xylene	106	9.221	9.221	0.000	97	320465	25.0	23.0	
92 Styrene	104	9.251	9.251	0.000	93	565662	25.0	23.9	
95 Bromoform	173	9.494	9.494	0.000	96	103867	25.0	24.8	
94 Isopropylbenzene	105	9.604	9.604	0.000	95	842024	25.0	22.8	
101 Bromobenzene	156	9.945	9.945	0.000	94	226042	25.0	22.9	
97 1,1,2,2-Tetrachloroethane	83	9.987	9.987	0.000	90	216856	25.0	22.8	
100 1,2,3-Trichloropropane	110	10.024	10.024	0.000	48	79602	25.0	24.2	
99 N-Propylbenzene	91	10.024	10.030	-0.006	96	953070	25.0	22.8	
98 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	37	49879	25.0	19.5	
103 2-Chlorotoluene	126	10.127	10.127	0.000	96	196794	25.0	22.2	
102 1,3,5-Trimethylbenzene	105	10.200	10.200	0.000	85	708176	25.0	23.0	
105 4-Chlorotoluene	126	10.237	10.237	0.000	98	207720	25.0	22.5	
106 tert-Butylbenzene	134	10.516	10.516	0.000	91	160364	25.0	22.4	
107 1,2,4-Trimethylbenzene	105	10.571	10.571	0.000	40	737288	25.0	23.5	
109 sec-Butylbenzene	105	10.723	10.723	0.000	94	912056	25.0	23.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 1,3-Dichlorobenzene	146	10.857	10.863	-0.006	83	435275	25.0	23.3	
110 4-Isopropyltoluene	119	10.863	10.863	0.000	96	780288	25.0	23.5	
113 1,4-Dichlorobenzene	146	10.948	10.948	0.000	94	438685	25.0	22.7	
115 n-Butylbenzene	91	11.247	11.246	0.001	97	671735	25.0	23.5	
116 1,2-Dichlorobenzene	146	11.295	11.295	0.000	92	419437	25.0	23.2	
117 1,2-Dibromo-3-Chloropropan	75	12.019	12.019	0.000	77	39100	25.0	22.5	
119 1,2,4-Trichlorobenzene	180	12.694	12.694	0.000	94	295004	25.0	23.4	
120 Hexachlorobutadiene	225	12.810	12.810	0.000	94	128406	25.0	22.6	
121 Naphthalene	128	12.907	12.907	0.000	97	748515	25.0	23.2	
122 1,2,3-Trichlorobenzene	180	13.108	13.108	0.000	95	278686	25.0	24.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00106	Amount Added:	12.50	Units: uL	
GAS CORP mix_00238	Amount Added:	12.50	Units: uL	
S_8260_IS_00258	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00211	Amount Added:	1.00	Units: uL	Run Reagent

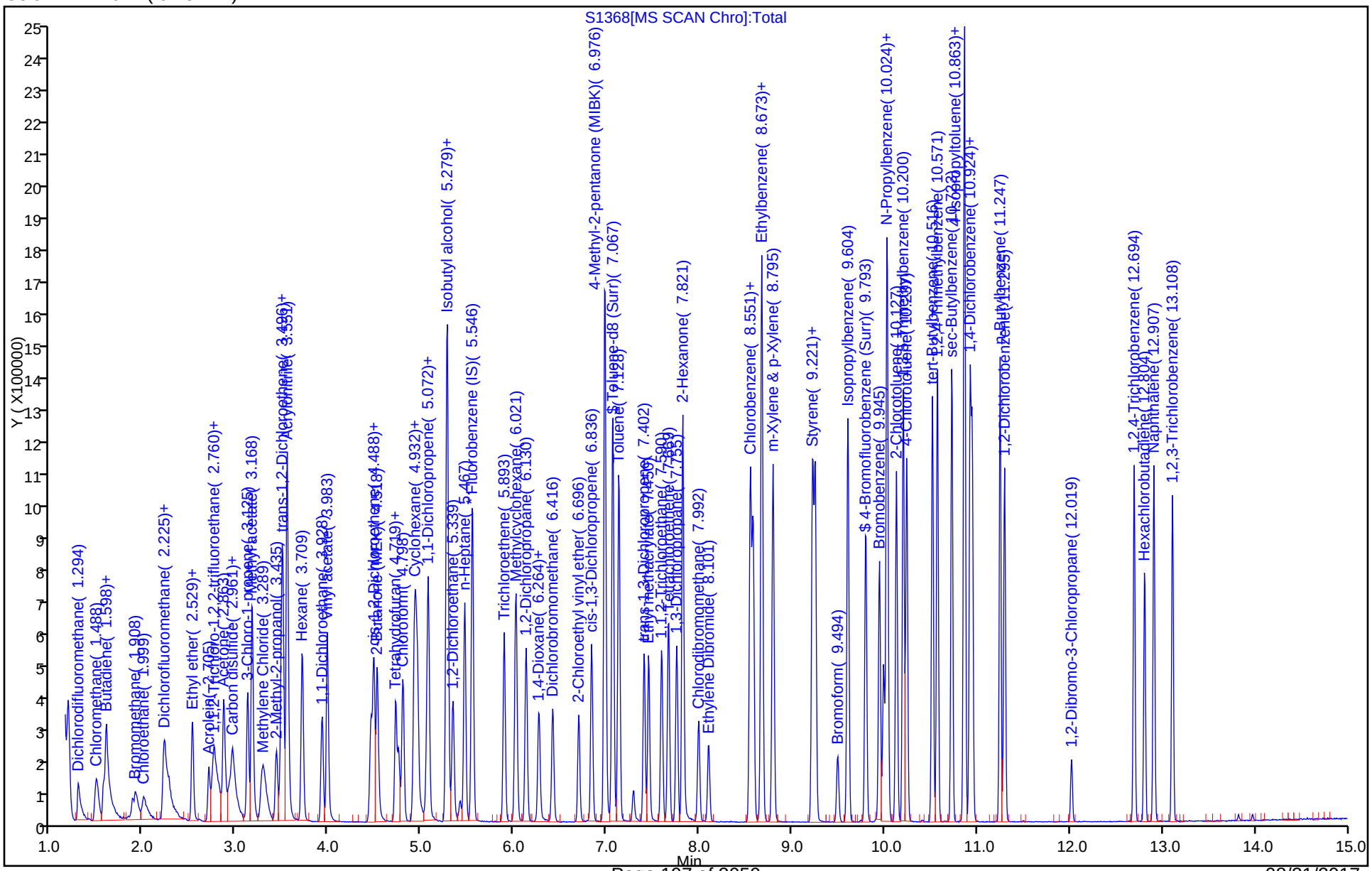
Report Date: 29-Aug-2017 09:36:31 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1368.D

Injection Date:	28-Aug-2017 21:29:30	Instrument ID:	HP5973S	Operator ID:	AS
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

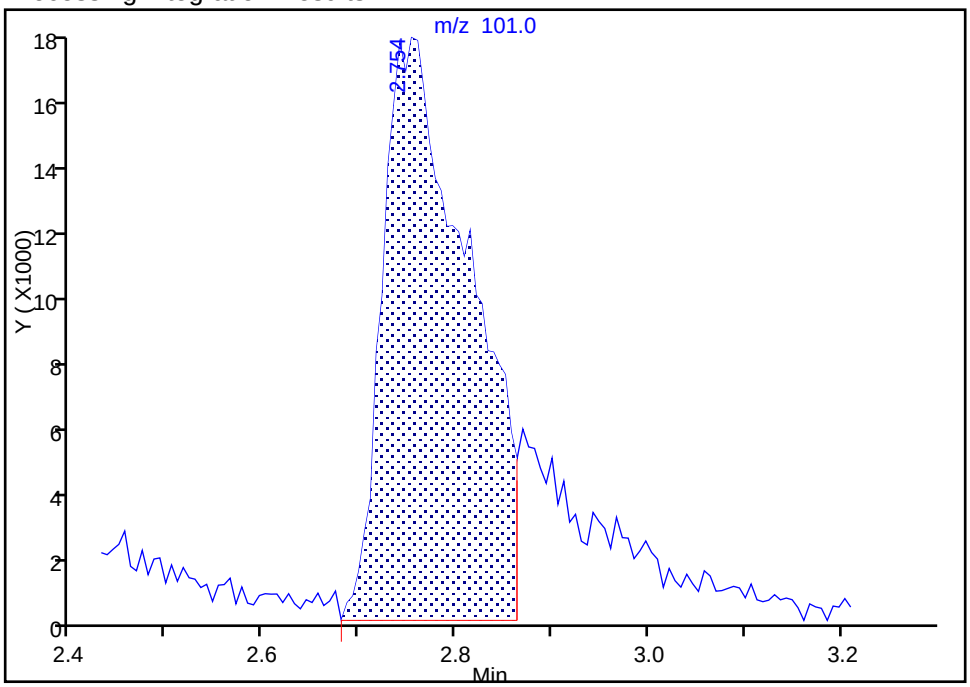
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20170828-65208.b\S1368.D
Injection Date: 28-Aug-2017 21:29:30 Instrument ID: HP5973S
Lims ID: LCS
Client ID:
Operator ID: AS ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

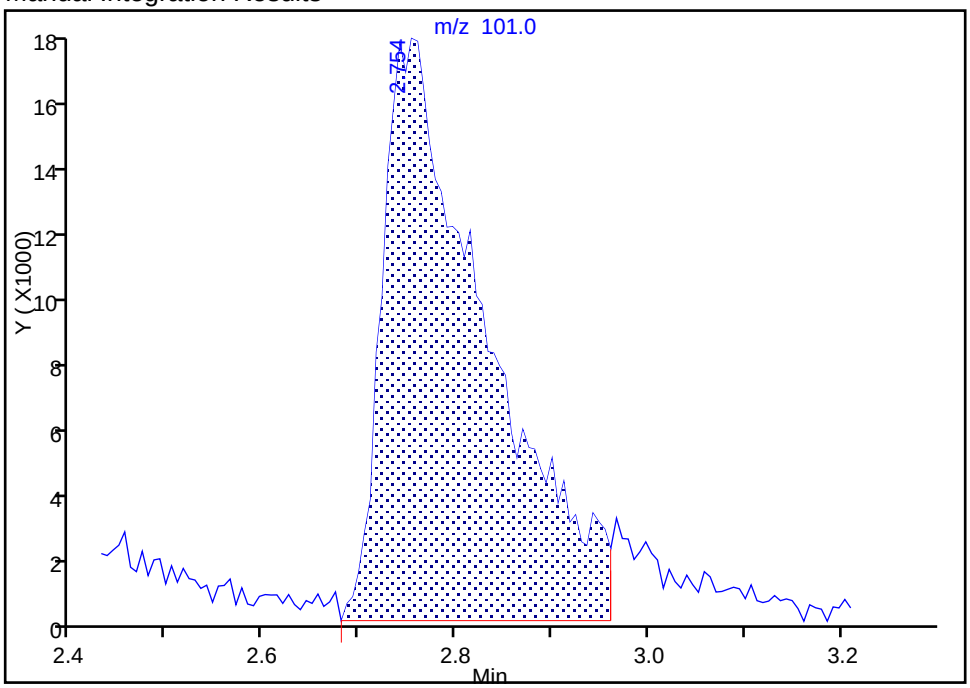
Processing Integration Results

RT: 2.75
Area: 112316
Amount: 20.170184
Amount Units: ug/L



Manual Integration Results

RT: 2.75
Area: 134165
Amount: 24.093920
Amount Units: ug/L



Reviewer: archern, 29-Aug-2017 09:36:01
Audit Action: Manually Integrated Audit Reason: Baseline

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP5973S Start Date: 08/19/2017 13:19

Analysis Batch Number: 372976 End Date: 08/19/2017 22:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-372976/6		08/19/2017 13:19	1	S1025.D	ZB-624 (20) 0.18(mm)
IC 480-372976/8		08/19/2017 14:06	1	S1027.D	ZB-624 (20) 0.18(mm)
IC 480-372976/9		08/19/2017 14:30	1	S1028.D	ZB-624 (20) 0.18(mm)
IC 480-372976/10		08/19/2017 14:53	1	S1029.D	ZB-624 (20) 0.18(mm)
IC 480-372976/11		08/19/2017 15:16	1	S1030.D	ZB-624 (20) 0.18(mm)
IC 480-372976/12		08/19/2017 15:39	1	S1031.D	ZB-624 (20) 0.18(mm)
ICIS 480-372976/13		08/19/2017 16:02	1	S1032.D	ZB-624 (20) 0.18(mm)
IC 480-372976/14		08/19/2017 16:25	1	S1033.D	ZB-624 (20) 0.18(mm)
IC 480-372976/15		08/19/2017 16:48	1	S1034.D	ZB-624 (20) 0.18(mm)
MDLV 480-372976/17		08/19/2017 17:35	1		ZB-624 (20) 0.18(mm)
MDLV 480-372976/18		08/19/2017 17:58	1		ZB-624 (20) 0.18(mm)
IC 480-372976/20		08/19/2017 18:44	1		ZB-624 (20) 0.18(mm)
IC 480-372976/21		08/19/2017 19:07	1		ZB-624 (20) 0.18(mm)
IC 480-372976/22		08/19/2017 19:31	1		ZB-624 (20) 0.18(mm)
IC 480-372976/23		08/19/2017 19:54	1		ZB-624 (20) 0.18(mm)
IC 480-372976/24		08/19/2017 20:17	1		ZB-624 (20) 0.18(mm)
IC 480-372976/25		08/19/2017 20:40	1		ZB-624 (20) 0.18(mm)
IC 480-372976/26		08/19/2017 21:03	1		ZB-624 (20) 0.18(mm)
MDLV 480-372976/28		08/19/2017 21:50	1		ZB-624 (20) 0.18(mm)
ICV 480-372976/29		08/19/2017 22:13	1		ZB-624 (20) 0.18(mm)
ICV 480-372976/30		08/19/2017 22:36	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP5973S Start Date: 08/28/2017 20:10

Analysis Batch Number: 374316 End Date: 08/29/2017 05:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-374316/1		08/28/2017 20:10	1	S1365.D	ZB-624 (20) 0.18(mm)
CCVIS 480-374316/2		08/28/2017 20:43	1	S1366.D	ZB-624 (20) 0.18(mm)
CCV 480-374316/3		08/28/2017 21:06	1		ZB-624 (20) 0.18(mm)
LCS 480-374316/4		08/28/2017 21:29	1	S1368.D	ZB-624 (20) 0.18(mm)
RL 480-374316/5		08/28/2017 21:52	1		ZB-624 (20) 0.18(mm)
MB 480-374316/6		08/28/2017 22:15	1	S1370.D	ZB-624 (20) 0.18(mm)
ZZZZZ		08/28/2017 23:00	10		ZB-624 (20) 0.18(mm)
ZZZZZ		08/28/2017 23:23	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/28/2017 23:47	10		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 00:10	10		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 00:33	10		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 00:56	10		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 01:19	10		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 01:42	10		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 02:05	10		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 02:28	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 02:52	10		ZB-624 (20) 0.18(mm)
480-123215-1		08/29/2017 03:15	1	S1382.D	ZB-624 (20) 0.18(mm)
480-123215-2		08/29/2017 03:38	1	S1383.D	ZB-624 (20) 0.18(mm)
480-123215-3		08/29/2017 04:01	1	S1384.D	ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 04:24	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 04:47	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 05:10	10		ZB-624 (20) 0.18(mm)
ZZZZZ		08/29/2017 05:34	10		ZB-624 (20) 0.18(mm)

GC/MS VOA Worksheet

Batch Number: 480-374316
Method: 8260C
Analyst: Archer, Nicholas E

Date Open: Aug 28 2017 8:10PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	2MTP_WRK_00064	3MTP_WRK_00065
BFB~480-374316/1		8260C			1 uL	1 uL	HP5973S		
CCVIS~480-374316/2		8260C			5 mL	5 mL	HP5973S		
CCV~480-374316/3		8260C			5 mL	5 mL	HP5973S	12.5 uL	12.5 uL
LCS~480-374316/4		8260C			5 mL	5 mL	HP5973S		
RL~480-374316/5					5 mL	5 mL	HP5973S		
MB~480-374316/6		8260C			5 mL	5 mL	HP5973S		
LB~480-373523/1-A		8260C			5 mL	5 mL	HP5973S		
LB~480-373078/1-A		8260C			5 mL	5 mL	HP5973S		
480-122947-A-1-B		8260C	P	- SU	5 mL	5 mL	HP5973S		
480-122901-A-3-C		8260C	F	- SU	5 mL	5 mL	HP5973S		
480-122901-A-4-C		8260C	F	- SU	5 mL	5 mL	HP5973S		
480-122901-A-15-C		8260C	F	- SU	5 mL	5 mL	HP5973S		
480-122901-A-16-C		8260C	F	- SU	5 mL	5 mL	HP5973S		
480-122979-A-1-C		8260C	F	- SU	5 mL	5 mL	HP5973S		
480-122979-A-2-E		8260C	F	- SU	5 mL	5 mL	HP5973S		
480-123208-D-1	DSN-001	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-123208-D-2	AERATED DSN-001	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-123215-I-1	NS-LDP-001-GW	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-123215-I-2	NS-LDP-002-GW	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-123215-I-3	NS-LDP-003-GW	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-123252-B-1	TOTE AT MSW #1	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-123256-L-4	NS-LDP-004-GW	8260C	T	<2 SU	5 mL	5 mL	HP5973S		
480-122947-A-1-B~MS		8260C	P	- SU	5 mL	5 mL	HP5973S		
480-122947-A-1-B~MSD		8260C	P	- SU	5 mL	5 mL	HP5973S		

GC/MS VOA Worksheet

Batch Number: 480-374316
Method: 8260C
Analyst: Archer, Nicholas E

Date Open: Aug 28 2017 8:10PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	8260 CORP mix_00106	ADD CORP mix_00061	BFB_WRK_00064	GAS CORP mix_00238	S_8260_IS_00258	S_8260_Surr_00211
BFB~480-374316/1		8260C				1 uL			
CCVIS~480-374316/2		8260C		12.5 uL			12.5 uL	1 uL	1 uL
CCV~480-374316/3		8260C			12.5 uL			1 uL	1 uL
LCS~480-374316/4		8260C		12.5 uL			12.5 uL	1 uL	1 uL
RL~480-374316/5				1 uL	1 uL		1 uL	1 uL	1 uL
MB~480-374316/6		8260C						1 uL	1 uL
LB~480-373523/1-A		8260C						1 uL	1 uL
LB~480-373078/1-A		8260C						1 uL	1 uL
480-122947-A-1-B		8260C	P					1 uL	1 uL
480-122901-A-3-C		8260C	F					1 uL	1 uL
480-122901-A-4-C		8260C	F					1 uL	1 uL
480-122901-A-15-C		8260C	F					1 uL	1 uL
480-122901-A-16-C		8260C	F					1 uL	1 uL
480-122979-A-1-C		8260C	F					1 uL	1 uL
480-122979-A-2-E		8260C	F					1 uL	1 uL
480-123208-D-1	DSN-001	8260C	T					1 uL	1 uL
480-123208-D-2	AERATED DSN-001	8260C	T					1 uL	1 uL
480-123215-I-1	NS-LDP-001-GW	8260C	T					1 uL	1 uL
480-123215-I-2	NS-LDP-002-GW	8260C	T					1 uL	1 uL
480-123215-I-3	NS-LDP-003-GW	8260C	T					1 uL	1 uL
480-123252-B-1	TOTE AT MSW #1	8260C	T					1 uL	1 uL
480-123256-L-4	NS-LDP-004-GW	8260C	T					1 uL	1 uL
480-122947-A-1-B~MS		8260C	P	12.5 uL			12.5 uL	1 uL	1 uL
480-122947-A-1-B~MSD		8260C	P	12.5 uL			12.5 uL	1 uL	1 uL

GC/MS VOA Worksheet

Batch Number: 480-374316
Method: 8260C
Analyst: Archer, Nicholas E

Date Open: Aug 28 2017 8:10PM
Batch End:

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
BFB~480-374316/1		8260C		
CCVIS~480-374316/2		8260C		
CCV~480-374316/3		8260C		
LCS~480-374316/4		8260C		
RL~480-374316/5				
MB~480-374316/6		8260C		
LB~480-373523/1-A		8260C		
LB~480-373078/1-A		8260C		
480-122947-A-1-B		8260C	P	not able to identify IS due to matrix/ all surrogates fail RA - 500x
480-122901-A-3-C		8260C	F	
480-122901-A-4-C		8260C	F	
480-122901-A-15-C		8260C	F	
480-122901-A-16-C		8260C	F	
480-122979-A-1-C		8260C	F	
480-122979-A-2-E		8260C	F	
480-123208-D-1	DSN-001	8260C	T	
480-123208-D-2	AERATED DSN-001	8260C	T	
480-123215-I-1	NS-LDP-001-GW	8260C	T	
480-123215-I-2	NS-LDP-002-GW	8260C	T	
480-123215-I-3	NS-LDP-003-GW	8260C	T	
480-123252-B-1	TOTE AT MSW #1	8260C	T	
480-123256-L-4	NS-LDP-004-GW	8260C	T	
480-122947-A-1-B~MS		8260C	P	not able to identify IS due to matrix/ all surrogates fail (batch QC)
480-122947-A-1-B~MSD		8260C	P	not able to identify IS due to matrix/ all surrogates fail (batch QC)

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
NS-LDP-001-GW	480-123215-1	63	49	80	74	89	80
NS-LDP-002-GW	480-123215-2	65	51	77	71	84	75
NS-LDP-003-GW	480-123215-3	64	51	81	76	92	74
	MB 480-374019/1-A	58	45	72	67	62	78
	LCS 480-374019/2-A	65	53	80	77	87	83

	QC LIMITS
2FP = 2-Fluorophenol	35-120
PHL = Phenol-d5	22-120
NBZ = Nitrobenzene-d5	46-120
FBP = 2-Fluorobiphenyl	48-120
TBP = 2,4,6-Tribromophenol	41-120
TPHd14 = p-Terphenyl-d14	59-136

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low Lab File ID: W0188.D

Lab ID: LCS 480-374019/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Biphenyl	32.0	24.2	75	59-120	
bis (2-chloroisopropyl) ether	32.0	24.5	77	21-136	
2,4,5-Trichlorophenol	32.0	26.6	83	65-126	
2,4,6-Trichlorophenol	32.0	25.4	79	64-120	
2,4-Dichlorophenol	32.0	25.2	79	63-120	
2,4-Dimethylphenol	32.0	24.6	77	47-120	
2,4-Dinitrophenol	64.0	58.7	92	31-137	
2,4-Dinitrotoluene	32.0	27.6	86	69-120	
2,6-Dinitrotoluene	32.0	25.9	81	68-120	
2-Chloronaphthalene	32.0	23.7	74	58-120	
2-Chlorophenol	32.0	23.4	73	48-120	
2-Methylnaphthalene	32.0	24.1	75	59-120	
2-Methylphenol	32.0	22.5	70	39-120	
2-Nitroaniline	32.0	26.2	82	54-127	
2-Nitrophenol	32.0	26.3	82	52-125	
3,3'-Dichlorobenzidine	64.0	76.1	119	49-135	E
3-Nitroaniline	32.0	22.7	71	51-120	
4,6-Dinitro-2-methylphenol	64.0	74.1	116	46-136	
4-Bromophenyl phenyl ether	32.0	25.5	80	65-120	
4-Chloro-3-methylphenol	32.0	25.6	80	61-123	
4-Chloroaniline	32.0	18.0	56	30-120	
4-Chlorophenyl phenyl ether	32.0	25.2	79	62-120	
4-Methylphenol	32.0	22.2	70	29-131	
4-Nitroaniline	32.0	26.6	83	65-120	
4-Nitrophenol	64.0	46.2	72	45-120	
Acenaphthene	32.0	23.4	73	60-120	
Acenaphthylene	32.0	24.5	77	63-120	
Acetophenone	32.0	23.7	74	45-120	
Anthracene	32.0	25.7	80	67-120	
Atrazine	64.0	57.6	90	71-130	
Benzaldehyde	64.0	35.7	56	10-140	
Benzo(a)anthracene	32.0	27.2	85	70-121	
Benzo(a)pyrene	32.0	25.5	80	60-123	
Benzo(b)fluoranthene	32.0	26.5	83	66-126	
Benzo(g,h,i)perylene	32.0	26.1	81	66-150	
Benzo(k)fluoranthene	32.0	25.9	81	65-124	
Bis(2-chloroethoxy)methane	32.0	23.9	75	50-128	
Bis(2-chloroethyl)ether	32.0	22.1	69	44-120	
Bis(2-ethylhexyl) phthalate	32.0	25.5	80	63-139	
Butyl benzyl phthalate	32.0	26.2	82	70-129	
Caprolactam	64.0	22.4	35	22-120	
Carbazole	32.0	28.0	88	66-123	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low Lab File ID: W0188.D

Lab ID: LCS 480-374019/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chrysene	32.0	25.5	80	69-120	
Di-n-butyl phthalate	32.0	27.5	86	69-131	
Di-n-octyl phthalate	32.0	26.0	81	63-140	
Dibenz(a,h)anthracene	32.0	25.9	81	65-135	
Dibenzofuran	32.0	24.6	77	66-120	
Diethyl phthalate	32.0	26.9	84	59-127	
Dimethyl phthalate	32.0	27.1	85	68-120	
Fluoranthene	32.0	27.0	84	69-126	
Fluorene	32.0	24.9	78	66-120	
Hexachlorobenzene	32.0	25.6	80	61-120	
Hexachlorobutadiene	32.0	21.5	67	35-120	
Hexachlorocyclopentadiene	32.0	17.3	54	31-120	
Hexachloroethane	32.0	20.6	64	43-120	
Indeno(1,2,3-cd)pyrene	32.0	26.0	81	69-146	
Isophorone	32.0	24.8	77	55-120	
N-Nitrosodi-n-propylamine	32.0	24.1	75	32-140	
N-Nitrosodiphenylamine	32.0	25.3	79	61-120	
Naphthalene	32.0	22.6	71	57-120	
Nitrobenzene	32.0	24.3	76	53-123	
Pentachlorophenol	64.0	49.4	77	29-136	
Phenanthrene	32.0	24.8	77	68-120	
Phenol	32.0	15.8	50	17-120	
Pyrene	32.0	26.4	82	70-125	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab File ID: W0187.D Lab Sample ID: MB 480-374019/1-A

Matrix: Water Date Extracted: 08/25/2017 14:21

Instrument ID: HP5973W Date Analyzed: 08/28/2017 16:32

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-374019/2-A	W0188.D	08/28/2017 17:01
NS-LDP-001-GW	480-123215-1	W0189.D	08/28/2017 17:30
NS-LDP-002-GW	480-123215-2	W0190.D	08/28/2017 17:59
NS-LDP-003-GW	480-123215-3	W0191.D	08/28/2017 18:28

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab File ID: W9932.D DFTPP Injection Date: 08/14/2017

Instrument ID: HP5973W DFTPP Injection Time: 18:45

Analysis Batch No.: 372093

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	39.6	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	35.0	
70	Less than 2% of mass 69	0.2	(0.7) 1
127	10-80% of Base Peak	44.4	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.6	
275	10-60% of Base Peak	25.1	
365	Greater than 1% of mass 198	3.1	
441	present but less than 24% of mass 442	13.4	(15.6) 2
442	Greater than 50% of mass 198	85.6	
443	15-24% of mass 442	17.1	(19.9) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-372093/3	W9933.D	08/14/2017	19:16
	IC 480-372093/4	W9934.D	08/14/2017	19:45
	IC 480-372093/5	W9935.D	08/14/2017	20:14
	IC 480-372093/6	W9936.D	08/14/2017	20:43
	ICIS 480-372093/7	W9937.D	08/14/2017	21:13
	IC 480-372093/8	W9938.D	08/14/2017	21:41
	IC 480-372093/9	W9939.D	08/14/2017	22:10
	IC 480-372093/10	W9940.D	08/14/2017	22:39

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab File ID: W0184.D DFTPP Injection Date: 08/28/2017

Instrument ID: HP5973W DFTPP Injection Time: 15:07

Analysis Batch No.: 374280

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	40.2	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	33.3	
70	Less than 2% of mass 69	0.2	(0.7) 1
127	10-80% of Base Peak	44.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	24.9	
365	Greater than 1% of mass 198	3.3	
441	present but less than 24% of mass 442	14.7	(16.5) 2
442	Greater than 50% of mass 198	88.7	
443	15-24% of mass 442	17.3	(19.5) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-374280/3	W0185.D	08/28/2017	15:35
	MB 480-374019/1-A	W0187.D	08/28/2017	16:32
	LCS 480-374019/2-A	W0188.D	08/28/2017	17:01
NS-LDP-001-GW	480-123215-1	W0189.D	08/28/2017	17:30
NS-LDP-002-GW	480-123215-2	W0190.D	08/28/2017	17:59
NS-LDP-003-GW	480-123215-3	W0191.D	08/28/2017	18:28

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: ICIS 480-372093/7 Date Analyzed: 08/14/2017 21:13

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W9937.D Heated Purge: (Y/N) N

Calibration ID: 31146

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		208712	5.61	848730	6.72	407575	8.17
UPPER LIMIT		417424	6.11	1697460	7.22	815150	8.67
LOWER LIMIT		104356	5.11	424365	6.22	203788	7.67
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-374280/3		224074	5.56	888737	6.67	432413	8.12

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: ICIS 480-372093/7 Date Analyzed: 08/14/2017 21:13

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W9937.D Heated Purge: (Y/N) N

Calibration ID: 31146

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		722272	9.39	725335	11.61	666169	13.22
UPPER LIMIT		1444544	9.89	1450670	12.11	1332338	13.72
LOWER LIMIT		361136	8.89	362668	11.11	333085	12.72
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-374280/3		780736	9.33	823806	11.54	721002	13.13

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: CCVIS 480-374280/3 Date Analyzed: 08/28/2017 15:35

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W0185.D Heated Purge: (Y/N) N

Calibration ID: 31303

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		224074	5.56	888737	6.67	432413	8.12
UPPER LIMIT		448148	6.06	1777474	7.17	864826	8.62
LOWER LIMIT		112037	5.06	444369	6.17	216207	7.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-374019/1-A		259409	5.56	1034923	6.66	505008	8.12
LCS 480-374019/2-A		274496	5.57	1097632	6.67	542865	8.12
480-123215-1	NS-LDP-001-GW	260980	5.56	1036102	6.66	516216	8.12
480-123215-2	NS-LDP-002-GW	295887	5.56	1174037	6.66	575074	8.12
480-123215-3	NS-LDP-003-GW	276095	5.56	1074798	6.66	535642	8.12

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: CCVIS 480-374280/3 Date Analyzed: 08/28/2017 15:35

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): W0185.D Heated Purge: (Y/N) N

Calibration ID: 31303

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		780736	9.33	823806	11.54	721002	13.13
UPPER LIMIT		1561472	9.83	1647612	12.04	1442004	13.63
LOWER LIMIT		390368	8.83	411903	11.04	360501	12.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-374019/1-A		916964	9.33	949675	11.54	863441	13.12
LCS 480-374019/2-A		999873	9.33	1052957	11.54	961278	13.13
480-123215-1	NS-LDP-001-GW	920420	9.33	936933	11.54	885658	13.12
480-123215-2	NS-LDP-002-GW	1067104	9.33	1061435	11.54	1024634	13.13
480-123215-3	NS-LDP-003-GW	972459	9.33	996960	11.54	930171	13.13

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270D

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-001-GW | Lab Sample ID: 480-123215-1

Matrix: Water | Lab File ID: W0189.D

Analysis Method: 8270D | Date Collected: 08/24/2017 00:00

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 17:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-001-GW | Lab Sample ID: 480-123215-1

Matrix: Water | Lab File ID: W0189.D

Analysis Method: 8270D | Date Collected: 08/24/2017 00:00

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 17:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	0.71	J	5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-001-GW | Lab Sample ID: 480-123215-1

Matrix: Water | Lab File ID: W0189.D

Analysis Method: 8270D | Date Collected: 08/24/2017 00:00

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 17:30

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	89		41-120
321-60-8	2-Fluorobiphenyl	74		48-120
367-12-4	2-Fluorophenol	63		35-120
4165-60-0	Nitrobenzene-d5	80		46-120
1718-51-0	p-Terphenyl-d14	80		59-136
4165-62-2	Phenol-d5	49		22-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0189.D
Lims ID: 480-123215-C-1-A
Client ID: NS-LDP-001-GW
Sample Type: Client
Inject. Date: 28-Aug-2017 17:30:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0065199-007
Operator ID: PJQ Instrument ID: HP5973W

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2017 15:22:05 Calib Date: 24-Aug-2017 16:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170824-65106.b\W0126.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: quirkp Date: 29-Aug-2017 15:22:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.561	5.556	0.005	96	260980	4.00	
* 2 Naphthalene-d8	136	6.662	6.667	-0.005	100	1036102	4.00	
* 3 Acenaphthene-d10	164	8.115	8.120	-0.005	96	516216	4.00	
* 4 Phenanthrene-d10	188	9.327	9.327	0.000	97	920420	4.00	
* 5 Chrysene-d12	240	11.539	11.539	0.000	97	936933	4.00	
* 6 Perylene-d12	264	13.120	13.126	-0.006	98	885658	4.00	
$ 7 2-Fluorophenol	112	4.354	4.316	0.038	94	438395	5.05	
$ 8 Phenol-d5	99	5.278	5.267	0.011	95	422375	3.92	
$ 9 Nitrobenzene-d5	82	6.053	6.053	0.000	91	574466	6.43	
$ 10 2-Fluorobiphenyl	172	7.570	7.570	0.000	99	1144137	5.93	
$ 11 2,4,6-Tribromophenol	330	8.767	8.767	0.000	94	197552	7.12	
$ 12 p-Terphenyl-d14	244	10.631	10.631	0.000	99	1269995	6.36	
36 Benzaldehyde	77		5.155				ND	
37 Phenol	94		5.278				ND	
40 Bis(2-chloroethyl)ether	93		5.337				ND	
41 2-Chlorophenol	128		5.369				ND	
49 2-Methylphenol	108		5.818				ND	
50 2,2'-oxybis[1-chloropropan	45		5.823				ND	
53 Acetophenone	105		5.930				ND	
55 N-Nitrosodi-n-propylamine	70		5.941				ND	
56 4-Methylphenol	108	5.967	5.957	0.010	91	1454	0.0165	
59 Hexachloroethane	117		5.999				ND	
61 Nitrobenzene	77		6.074				ND	
63 Isophorone	82		6.282				ND	
67 2-Nitrophenol	139		6.347				ND	
68 2,4-Dimethylphenol	107		6.405				ND	
71 Bis(2-chloroethoxy)methane	93		6.475				ND	
74 2,4-Dichlorophenol	162		6.560				ND	
76 Naphthalene	128	6.678	6.683	-0.005	96	19022	0.0727	
78 4-Chloroaniline	127		6.742				ND	
81 Hexachlorobutadiene	225		6.801				ND	
84 Caprolactam	113		7.062				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
87 4-Chloro-3-methylphenol	107		7.164				ND	
89 2-Methylnaphthalene	142	7.260	7.265	-0.005	92	15567	0.0886	
93 Hexachlorocyclopentadiene	237		7.399				ND	
94 2,4,6-Trichlorophenol	196		7.506				ND	
95 2,4,5-Trichlorophenol	196		7.543				ND	
97 1,1'-Biphenyl	154	7.650	7.650	0.000	95	9119	0.0417	
98 2-Chloronaphthalene	162		7.661				ND	
100 2-Nitroaniline	65		7.757				ND	
104 Dimethyl phthalate	163		7.906				ND	
106 2,6-Dinitrotoluene	165		7.955				ND	
107 Acenaphthylene	152		8.003				ND	
108 3-Nitroaniline	138		8.093				ND	
109 Acenaphthene	153		8.147				ND	
110 2,4-Dinitrophenol	184		8.179				ND	
111 4-Nitrophenol	109		8.248				ND	
113 2,4-Dinitrotoluene	165		8.280				ND	
114 Dibenzofuran	168	8.286	8.286	0.000	91	7106	0.0313	
119 Diethyl phthalate	149		8.483				ND	
122 4-Chlorophenyl phenyl ethe	204		8.569				ND	
123 Fluorene	166	8.564	8.569	-0.005	96	9901	0.0537	
125 4-Nitroaniline	138		8.590				ND	
126 4,6-Dinitro-2-methylphenol	198		8.617				ND	
129 N-Nitrosodiphenylamine	169		8.670				ND	
137 4-Bromophenyl phenyl ether	248		8.964				ND	
138 Hexachlorobenzene	284		9.023				ND	
141 Atrazine	200		9.114				ND	
143 Pentachlorophenol	266		9.183				ND	
149 Phenanthrene	178	9.344	9.349	-0.005	98	48312	0.1785	
150 Anthracene	178		9.392				ND	
151 Carbazole	167		9.525				ND	
154 Di-n-butyl phthalate	149	9.814	9.814	0.000	98	16554	0.0711	
161 Fluoranthene	202	10.316	10.316	0.000	94	4654	0.0351	
165 Pyrene	202	10.497	10.503	-0.006	82	2930	0.0105	
172 Butyl benzyl phthalate	149	11.032	11.037	-0.005	93	3292	0.1249	
177 3,3'-Dichlorobenzidine	252		11.512				ND	
179 Benzo[a]anthracene	228		11.528				ND	
181 Chrysene	228		11.566				ND	
180 Bis(2-ethylhexyl) phthalat	149	11.561	11.566	-0.005	91	3011	0.1129	
184 Di-n-octyl phthalate	149		12.239				ND	
186 Benzo[b]fluoranthene	252		12.672				ND	
187 Benzo[k]fluoranthene	252		12.704				ND	
189 Benzo[a]pyrene	252		13.051				ND	
193 Indeno[1,2,3-cd]pyrene	276		14.461				ND	
194 Dibenz(a,h)anthracene	278		14.488				ND	
195 Benzo[g,h,i]perylene	276		14.798				ND	

Reagents:

MB_LLIS_WRK_00134 Amount Added: 20.00 Units: uL Run Reagent

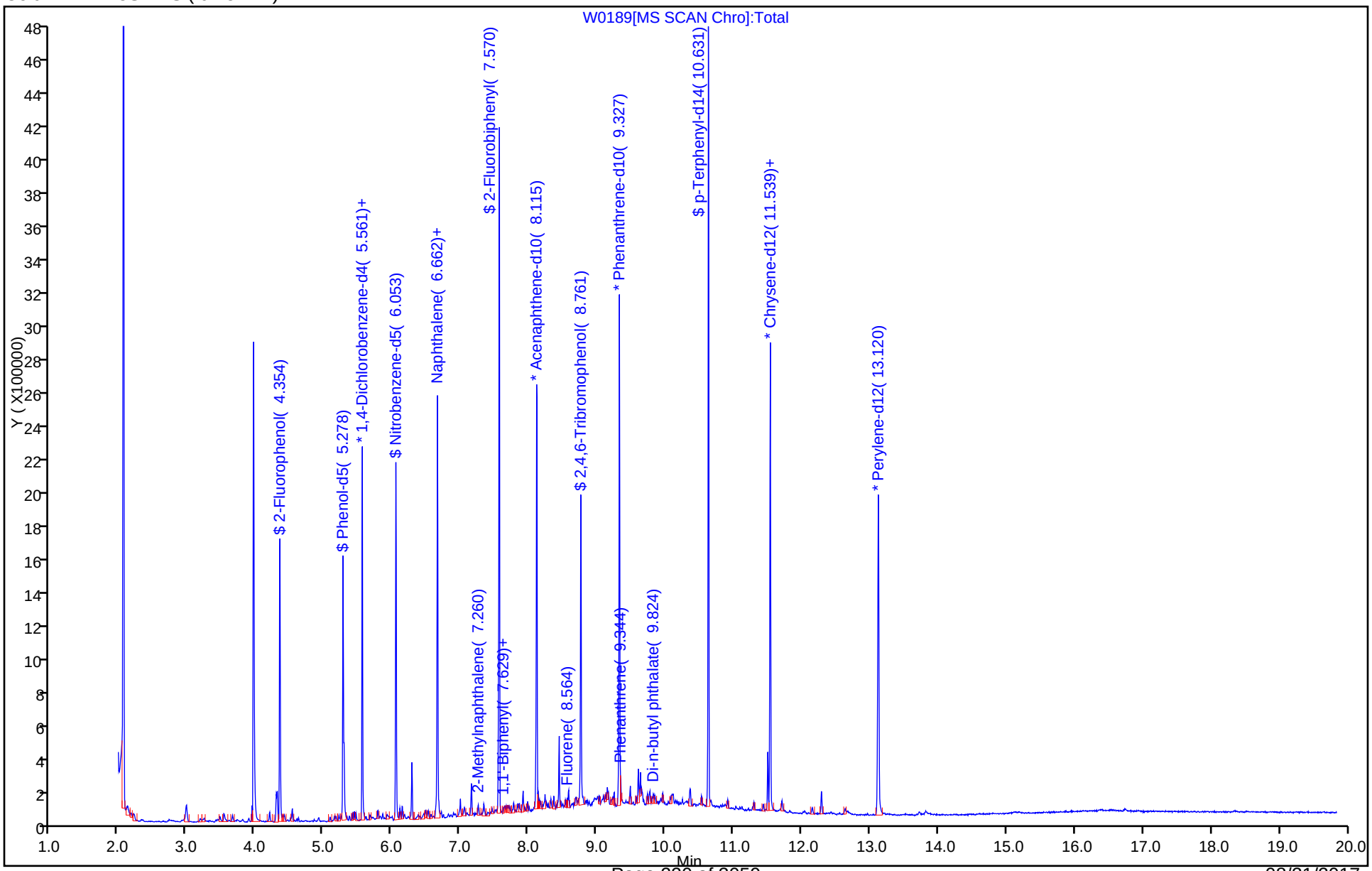
Report Date: 29-Aug-2017 15:22:06 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0189.D

Injection Date:	28-Aug-2017 17:30:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-123215-C-1-A	Lab Sample ID:	480-123215-1	Worklist Smp#:	7
Client ID:	NS-LDP-001-GW				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



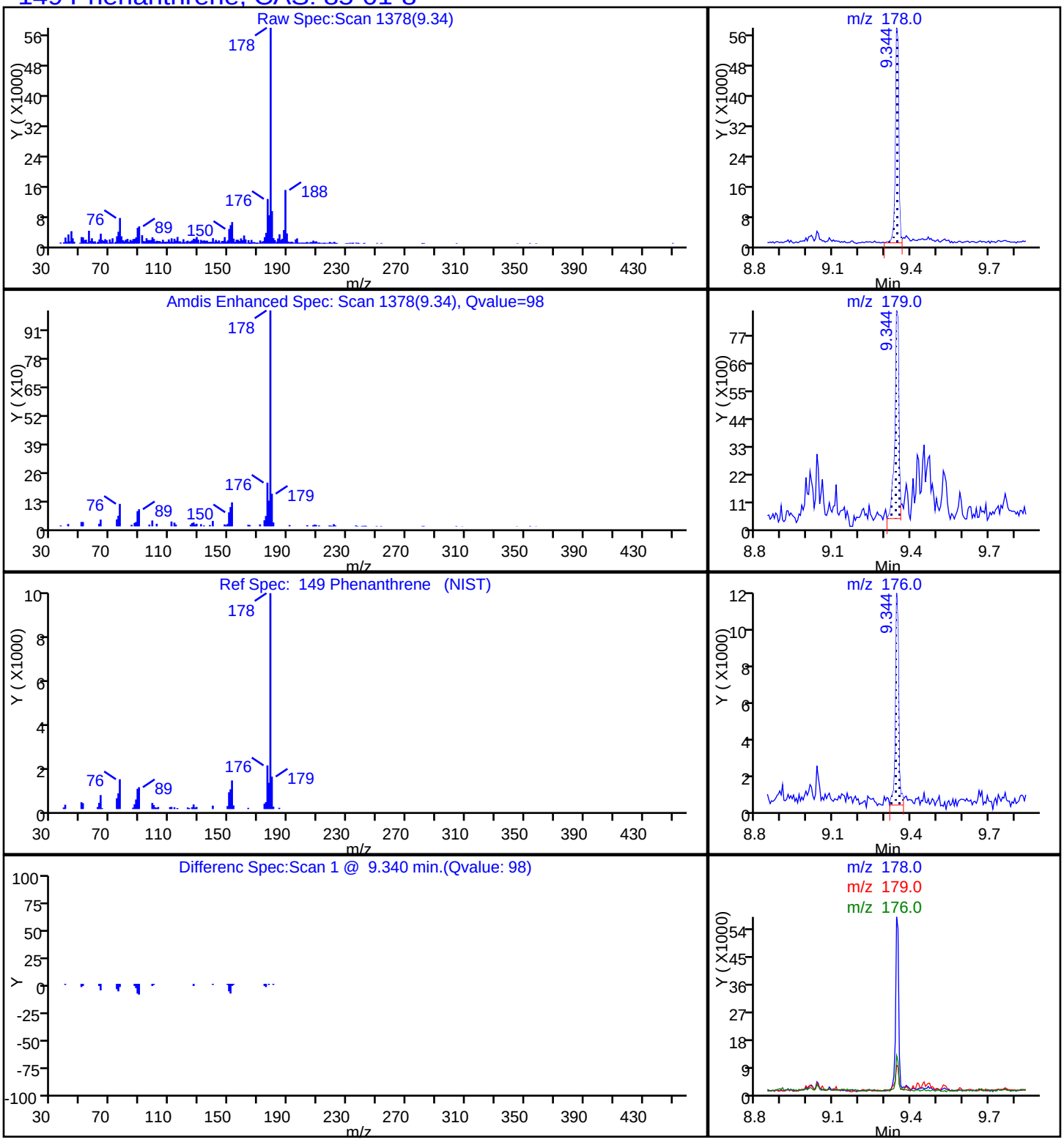
Report Date: 29-Aug-2017 15:22:06 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0189.D

Injection Date:	28-Aug-2017 17:30:30	Instrument ID:	HP5973W
Lims ID:	480-123215-C-1-A	Lab Sample ID:	480-123215-1
Client ID:	NS-LDP-001-GW		
Operator ID:	PJQ	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

149 Phenanthrene, CAS: 85-01-8



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-002-GW | Lab Sample ID: 480-123215-2

Matrix: Water | Lab File ID: W0190.D

Analysis Method: 8270D | Date Collected: 08/24/2017 00:00

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 17:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-002-GW | Lab Sample ID: 480-123215-2

Matrix: Water | Lab File ID: W0190.D

Analysis Method: 8270D | Date Collected: 08/24/2017 00:00

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 17:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	0.47	J	5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-002-GW | Lab Sample ID: 480-123215-2

Matrix: Water | Lab File ID: W0190.D

Analysis Method: 8270D | Date Collected: 08/24/2017 00:00

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 17:59

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	84		41-120
321-60-8	2-Fluorobiphenyl	71		48-120
367-12-4	2-Fluorophenol	65		35-120
4165-60-0	Nitrobenzene-d5	77		46-120
1718-51-0	p-Terphenyl-d14	75		59-136
4165-62-2	Phenol-d5	51		22-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0190.D
Lims ID: 480-123215-B-2-A
Client ID: NS-LDP-002-GW
Sample Type: Client
Inject. Date: 28-Aug-2017 17:59:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0065199-008
Operator ID: PJQ Instrument ID: HP5973W

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2017 15:23:53 Calib Date: 24-Aug-2017 16:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170824-65106.b\W0126.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: quirkp Date: 29-Aug-2017 15:23:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.561	5.556	0.005	97	295887	4.00	
* 2 Naphthalene-d8	136	6.662	6.667	-0.005	100	1174037	4.00	
* 3 Acenaphthene-d10	164	8.115	8.120	-0.005	97	575074	4.00	
* 4 Phenanthrene-d10	188	9.327	9.327	0.000	97	1067104	4.00	
* 5 Chrysene-d12	240	11.539	11.539	0.000	97	1061435	4.00	
* 6 Perylene-d12	264	13.126	13.126	0.000	98	1024634	4.00	
$ 7 2-Fluorophenol	112	4.359	4.316	0.043	94	508286	5.17	
$ 8 Phenol-d5	99	5.283	5.267	0.016	95	496454	4.07	
$ 9 Nitrobenzene-d5	82	6.053	6.053	0.000	92	626507	6.19	
$ 10 2-Fluorobiphenyl	172	7.570	7.570	0.000	100	1216751	5.67	
$ 11 2,4,6-Tribromophenol	330	8.767	8.767	0.000	93	215197	6.70	
$ 12 p-Terphenyl-d14	244	10.636	10.631	0.005	99	1352673	5.98	
36 Benzaldehyde	77		5.155				ND	
37 Phenol	94		5.278				ND	
40 Bis(2-chloroethyl)ether	93		5.337				ND	
41 2-Chlorophenol	128		5.369				ND	
49 2-Methylphenol	108		5.818				ND	
50 2,2'-oxybis[1-chloropropan	45		5.823				ND	
53 Acetophenone	105	5.930	5.930	0.000	94	15885	0.1128	
55 N-Nitrosodi-n-propylamine	70		5.941				ND	
56 4-Methylphenol	108	5.967	5.957	0.010	95	5070	0.0507	
59 Hexachloroethane	117		5.999				ND	
61 Nitrobenzene	77		6.074				ND	
63 Isophorone	82		6.282				ND	
67 2-Nitrophenol	139		6.347				ND	
68 2,4-Dimethylphenol	107		6.405				ND	
71 Bis(2-chloroethoxy)methane	93		6.475				ND	
74 2,4-Dichlorophenol	162		6.560				ND	
76 Naphthalene	128	6.678	6.683	-0.005	94	28860	0.0973	
78 4-Chloroaniline	127		6.742				ND	
81 Hexachlorobutadiene	225		6.801				ND	
84 Caprolactam	113		7.062				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
87 4-Chloro-3-methylphenol	107		7.164				ND	
89 2-Methylnaphthalene	142	7.260	7.265	-0.005	90	28622	0.1438	
93 Hexachlorocyclopentadiene	237		7.399				ND	
94 2,4,6-Trichlorophenol	196		7.506				ND	
95 2,4,5-Trichlorophenol	196		7.543				ND	
97 1,1'-Biphenyl	154	7.645	7.650	-0.005	94	14285	0.0587	
98 2-Chloronaphthalene	162		7.661				ND	
100 2-Nitroaniline	65		7.757				ND	
104 Dimethyl phthalate	163		7.906				ND	
106 2,6-Dinitrotoluene	165		7.955				ND	
107 Acenaphthylene	152		8.003				ND	
108 3-Nitroaniline	138		8.093				ND	
109 Acenaphthene	153		8.147				ND	
110 2,4-Dinitrophenol	184		8.179				ND	
111 4-Nitrophenol	109		8.248				ND	
113 2,4-Dinitrotoluene	165		8.280				ND	
114 Dibenzofuran	168	8.286	8.286	0.000	68	6270	0.0248	
119 Diethyl phthalate	149	8.478	8.483	-0.005	86	4583	0.0236	
122 4-Chlorophenyl phenyl ethe	204		8.569				ND	
123 Fluorene	166	8.564	8.569	-0.005	95	10807	0.0526	
125 4-Nitroaniline	138		8.590				ND	
126 4,6-Dinitro-2-methylphenol	198		8.617				ND	
129 N-Nitrosodiphenylamine	169		8.670				ND	
137 4-Bromophenyl phenyl ether	248		8.964				ND	
138 Hexachlorobenzene	284		9.023				ND	
141 Atrazine	200		9.114				ND	
143 Pentachlorophenol	266		9.183				ND	
149 Phenanthrene	178	9.349	9.349	0.000	97	36766	0.1172	
150 Anthracene	178		9.392				ND	
151 Carbazole	167		9.525				ND	
154 Di-n-butyl phthalate	149	9.814	9.814	0.000	99	20763	0.0761	
161 Fluoranthene	202	10.316	10.316	0.000	64	4081	0.0309	
165 Pyrene	202		10.503				ND	
172 Butyl benzyl phthalate	149		11.037				ND	
177 3,3'-Dichlorobenzidine	252		11.512				ND	
179 Benzo[a]anthracene	228		11.528				ND	
181 Chrysene	228		11.566				ND	
180 Bis(2-ethylhexyl) phthalat	149		11.566				ND	
184 Di-n-octyl phthalate	149		12.239				ND	
186 Benzo[b]fluoranthene	252		12.672				ND	
187 Benzo[k]fluoranthene	252		12.704				ND	
189 Benzo[a]pyrene	252		13.051				ND	
193 Indeno[1,2,3-cd]pyrene	276		14.461				ND	
194 Dibenz(a,h)anthracene	278		14.488				ND	
195 Benzo[g,h,i]perylene	276		14.798				ND	

Reagents:

MB_LLIS_WRK_00134 Amount Added: 20.00 Units: uL Run Reagent

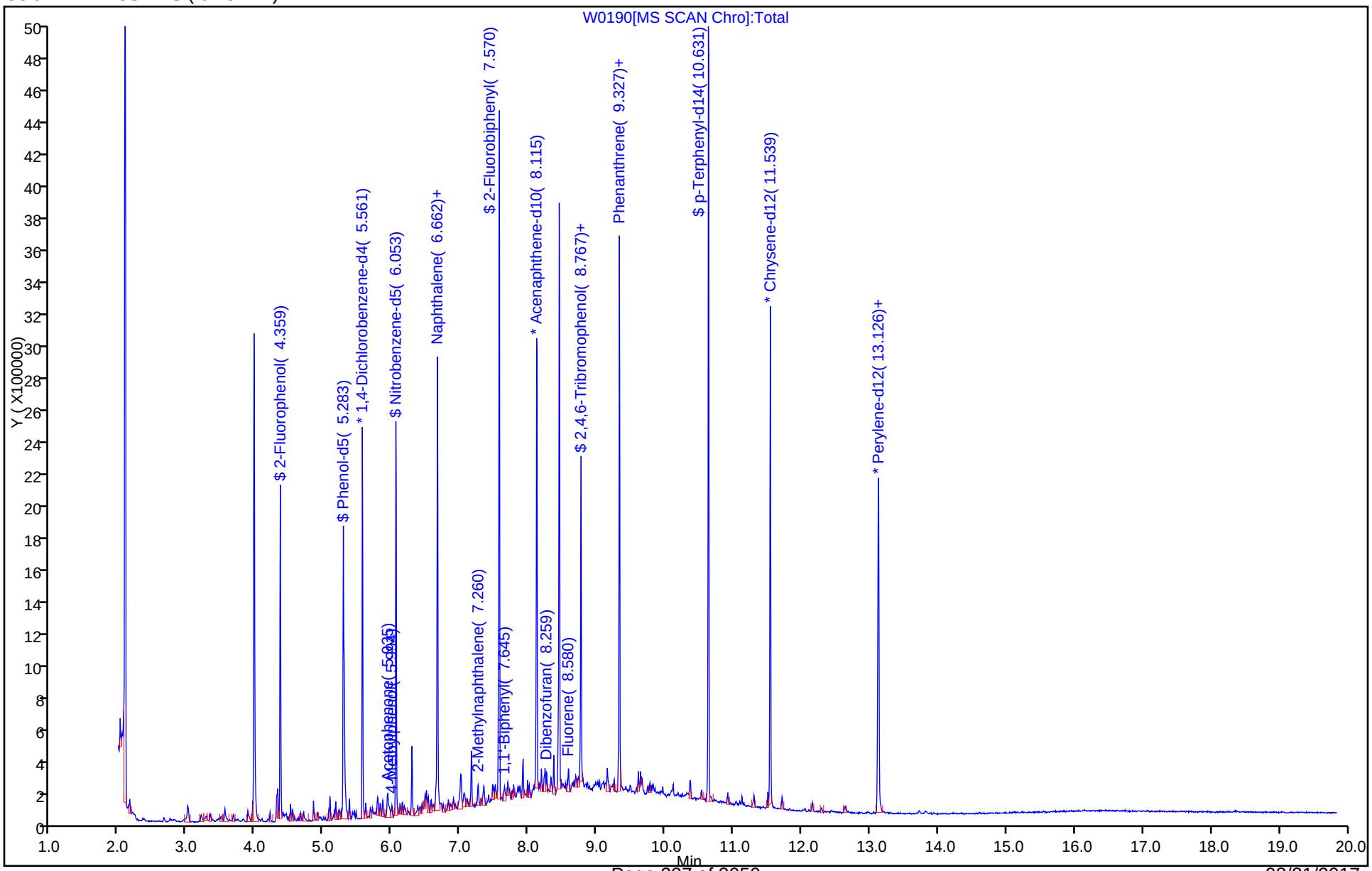
Report Date: 29-Aug-2017 15:23:53 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0190.D

Injection Date:	28-Aug-2017 17:59:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-123215-B-2-A	Lab Sample ID:	480-123215-2	Worklist Smp#:	8
Client ID:	NS-LDP-002-GW				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

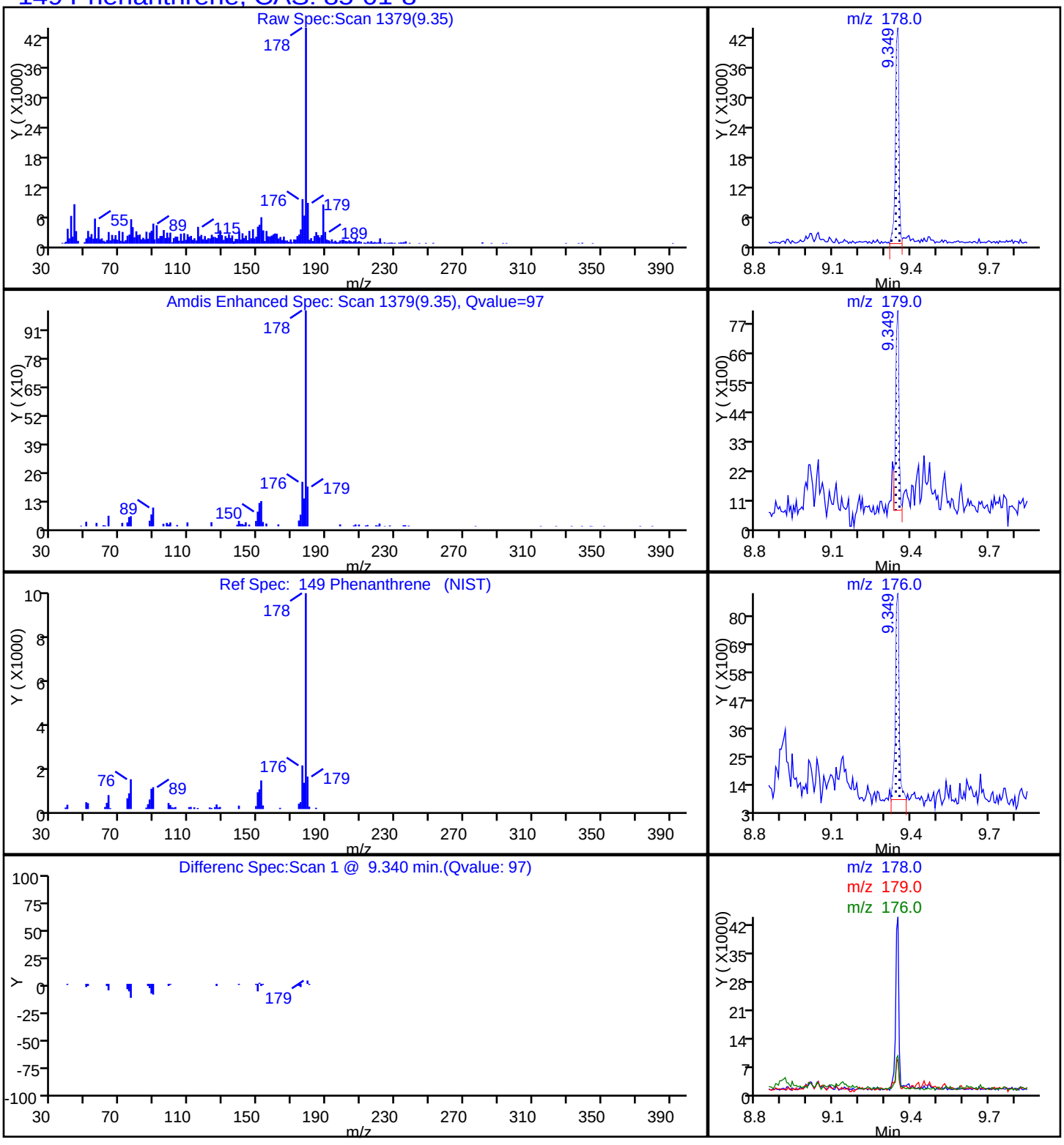
Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0190.D				
Injection Date:	28-Aug-2017 17:59:30	Instrument ID:	HP5973W		
Lims ID:	480-123215-B-2-A	Lab Sample ID:	480-123215-2		
Client ID:	NS-LDP-002-GW				
Operator ID:	PJQ	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

149 Phenanthrene, CAS: 85-01-8



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-003-GW | Lab Sample ID: 480-123215-3

Matrix: Water | Lab File ID: W0191.D

Analysis Method: 8270D | Date Collected: 08/24/2017 00:00

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 18:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	0.61	J	5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-003-GW | Lab Sample ID: 480-123215-3

Matrix: Water | Lab File ID: W0191.D

Analysis Method: 8270D | Date Collected: 08/24/2017 00:00

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 18:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	0.34	J	5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	0.49	J	5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-003-GW | Lab Sample ID: 480-123215-3

Matrix: Water | Lab File ID: W0191.D

Analysis Method: 8270D | Date Collected: 08/24/2017 00:00

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 18:28

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	92		41-120
321-60-8	2-Fluorobiphenyl	76		48-120
367-12-4	2-Fluorophenol	64		35-120
4165-60-0	Nitrobenzene-d5	81		46-120
1718-51-0	p-Terphenyl-d14	74		59-136
4165-62-2	Phenol-d5	51		22-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0191.D
Lims ID: 480-123215-D-3-A
Client ID: NS-LDP-003-GW
Sample Type: Client
Inject. Date: 28-Aug-2017 18:28:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0065199-009
Operator ID: PJQ Instrument ID: HP5973W

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2017 15:26:01 Calib Date: 24-Aug-2017 16:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170824-65106.b\W0126.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: quirkp Date: 29-Aug-2017 15:26:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.561	5.556	0.005	97	276095	4.00	
* 2 Naphthalene-d8	136	6.662	6.667	-0.005	100	1074798	4.00	
* 3 Acenaphthene-d10	164	8.120	8.120	0.000	97	535642	4.00	
* 4 Phenanthrene-d10	188	9.327	9.327	0.000	97	972459	4.00	
* 5 Chrysene-d12	240	11.539	11.539	0.000	97	996960	4.00	
* 6 Perylene-d12	264	13.126	13.126	0.000	98	930171	4.00	
$ 7 2-Fluorophenol	112	4.354	4.316	0.038	94	469786	5.12	
$ 8 Phenol-d5	99	5.283	5.267	0.016	94	468556	4.11	
$ 9 Nitrobenzene-d5	82	6.053	6.053	0.000	92	599675	6.47	
$ 10 2-Fluorobiphenyl	172	7.570	7.570	0.000	100	1209354	6.05	
$ 11 2,4,6-Tribromophenol	330	8.766	8.767	-0.001	93	215906	7.37	
$ 12 p-Terphenyl-d14	244	10.631	10.631	0.000	100	1251424	5.89	
36 Benzaldehyde	77		5.155				ND	
37 Phenol	94		5.278				ND	
40 Bis(2-chloroethyl)ether	93		5.337				ND	
41 2-Chlorophenol	128		5.369				ND	
49 2-Methylphenol	108		5.818				ND	
50 2,2'-oxybis[1-chloropropan	45		5.823				ND	
53 Acetophenone	105	5.930	5.930	0.000	94	19926	0.1517	
55 N-Nitrosodi-n-propylamine	70		5.941				ND	
56 4-Methylphenol	108	5.967	5.957	0.010	96	7732	0.0829	
59 Hexachloroethane	117		5.999				ND	
61 Nitrobenzene	77		6.074				ND	
63 Isophorone	82		6.282				ND	
67 2-Nitrophenol	139		6.347				ND	
68 2,4-Dimethylphenol	107		6.405				ND	
71 Bis(2-chloroethoxy)methane	93		6.475				ND	
74 2,4-Dichlorophenol	162		6.560				ND	
76 Naphthalene	128	6.683	6.683	0.000	96	26269	0.0968	
78 4-Chloroaniline	127		6.742				ND	
81 Hexachlorobutadiene	225		6.801				ND	
84 Caprolactam	113		7.062				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
87 4-Chloro-3-methylphenol	107		7.164				ND	
89 2-Methylnaphthalene	142	7.260	7.265	-0.005	93	23045	0.1265	
93 Hexachlorocyclopentadiene	237		7.399				ND	
94 2,4,6-Trichlorophenol	196		7.506				ND	
95 2,4,5-Trichlorophenol	196		7.543				ND	
97 1,1'-Biphenyl	154	7.650	7.650	0.000	90	12707	0.0560	
98 2-Chloronaphthalene	162		7.661				ND	
100 2-Nitroaniline	65		7.757				ND	
104 Dimethyl phthalate	163		7.906				ND	
106 2,6-Dinitrotoluene	165		7.955				ND	
107 Acenaphthylene	152		8.003				ND	
108 3-Nitroaniline	138		8.093				ND	
109 Acenaphthene	153		8.147				ND	
110 2,4-Dinitrophenol	184		8.179				ND	
111 4-Nitrophenol	109		8.248				ND	
113 2,4-Dinitrotoluene	165		8.280				ND	
114 Dibenzofuran	168	8.286	8.286	0.000	94	5630	0.0239	
119 Diethyl phthalate	149		8.483				ND	
122 4-Chlorophenyl phenyl ethe	204		8.569				ND	
123 Fluorene	166	8.563	8.569	-0.006	89	9697	0.0506	
125 4-Nitroaniline	138		8.590				ND	
126 4,6-Dinitro-2-methylphenol	198		8.617				ND	
129 N-Nitrosodiphenylamine	169		8.670				ND	
137 4-Bromophenyl phenyl ether	248		8.964				ND	
138 Hexachlorobenzene	284		9.023				ND	
141 Atrazine	200		9.114				ND	
143 Pentachlorophenol	266		9.183				ND	
149 Phenanthrene	178	9.349	9.349	0.000	93	34899	0.1220	
150 Anthracene	178		9.392				ND	
151 Carbazole	167		9.525				ND	
154 Di-n-butyl phthalate	149	9.813	9.814	-0.001	99	21276	0.0843	
161 Fluoranthene	202	10.316	10.316	0.000	93	4333	0.0331	
165 Pyrene	202		10.503				ND	
172 Butyl benzyl phthalate	149	11.032	11.037	-0.005	90	4317	0.1309	
177 3,3'-Dichlorobenzidine	252		11.512				ND	
179 Benzo[a]anthracene	228		11.528				ND	
181 Chrysene	228		11.566				ND	
180 Bis(2-ethylhexyl) phthalat	149	11.560	11.566	-0.006	86	3945	0.1166	
184 Di-n-octyl phthalate	149		12.239				ND	
186 Benzo[b]fluoranthene	252		12.672				ND	
187 Benzo[k]fluoranthene	252		12.704				ND	
189 Benzo[a]pyrene	252		13.051				ND	
193 Indeno[1,2,3-cd]pyrene	276		14.461				ND	
194 Dibenz(a,h)anthracene	278		14.488				ND	
195 Benzo[g,h,i]perylene	276		14.798				ND	

Reagents:

MB_LLIS_WRK_00134 Amount Added: 20.00 Units: uL Run Reagent

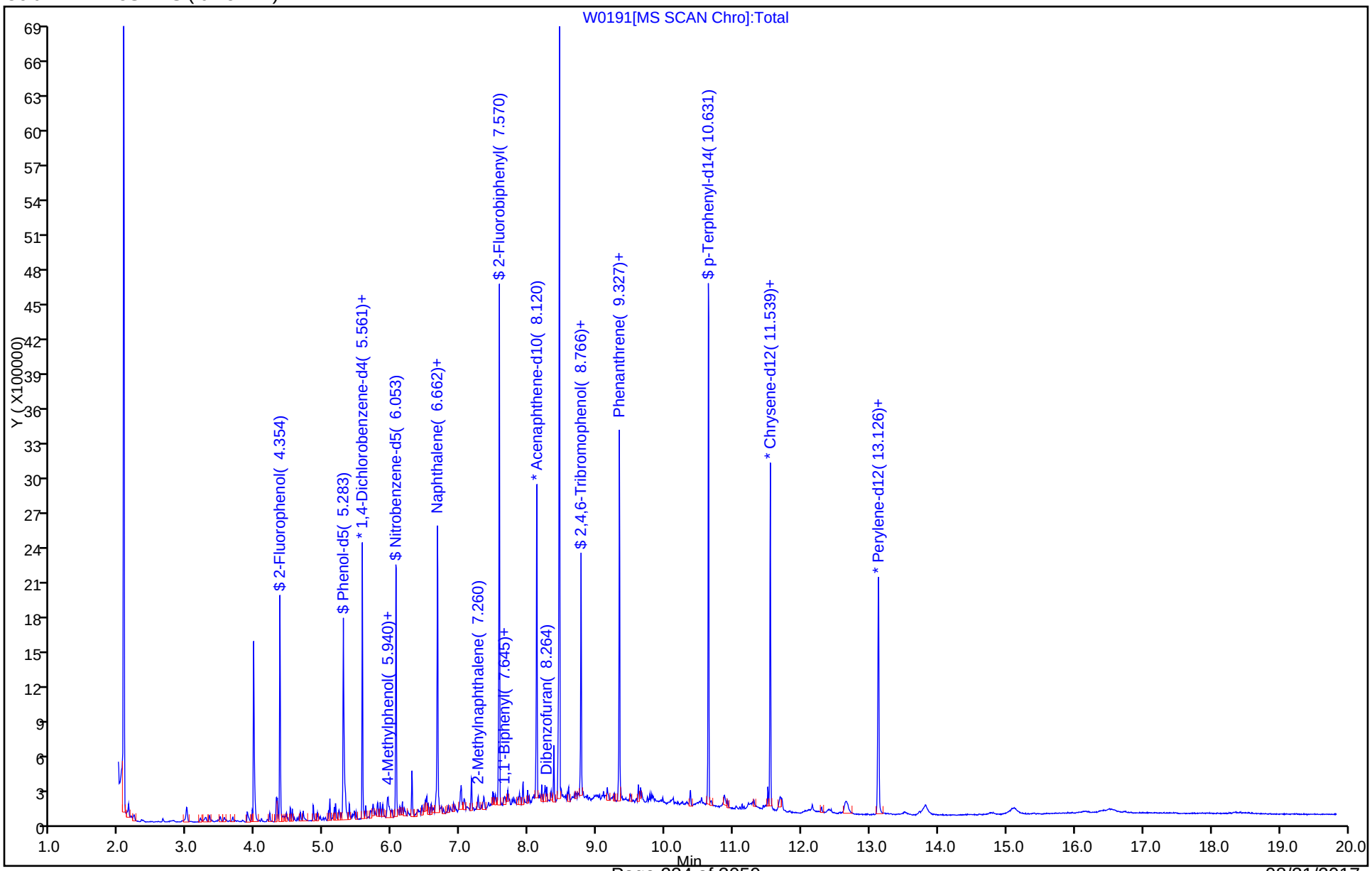
Report Date: 29-Aug-2017 15:26:02 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0191.D

Injection Date:	28-Aug-2017 18:28:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	480-123215-D-3-A	Lab Sample ID:	480-123215-3	Worklist Smp#:	9
Client ID:	NS-LDP-003-GW				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

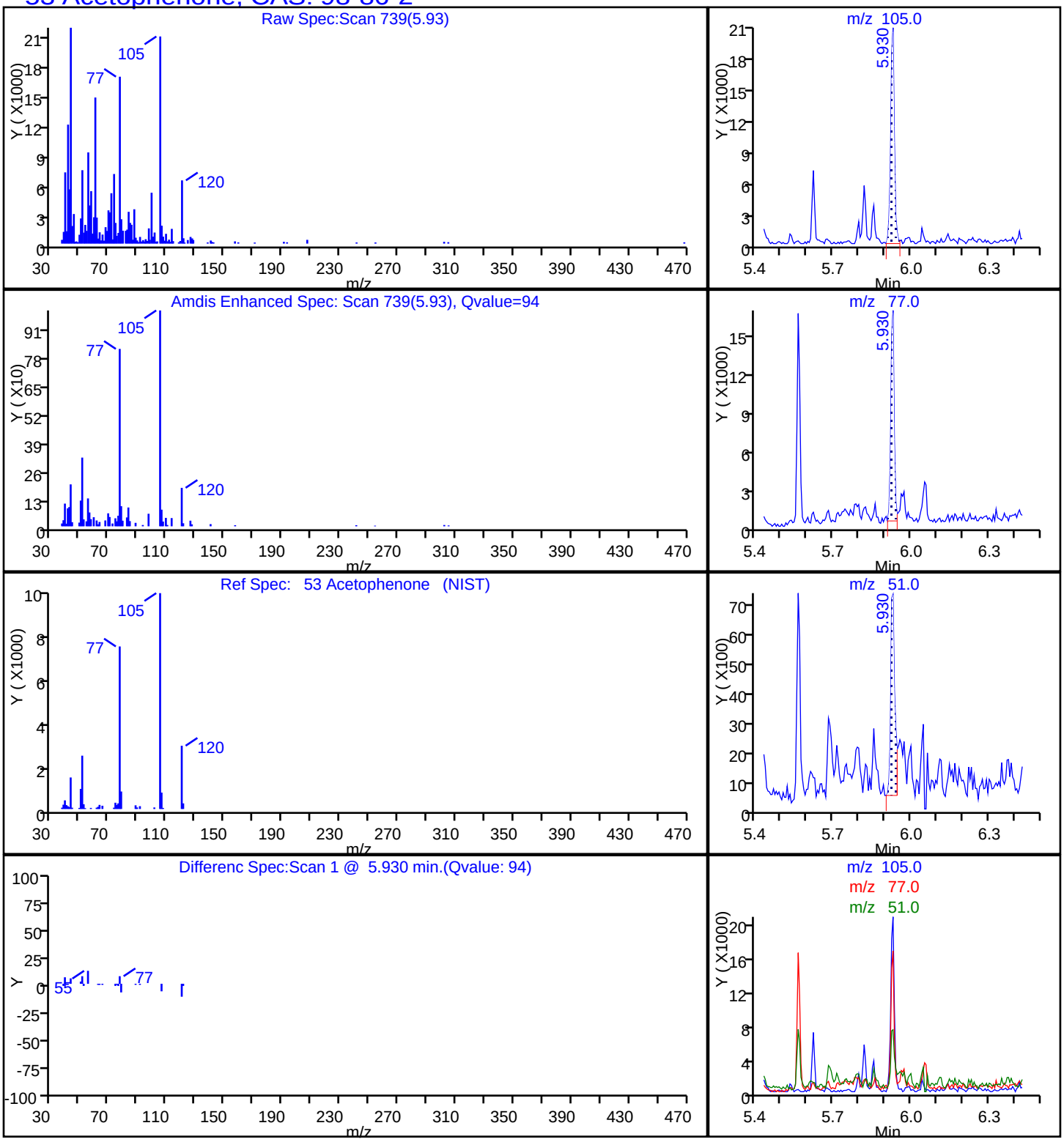
Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0191.D				
Injection Date:	28-Aug-2017 18:28:30	Instrument ID:	HP5973W		
Lims ID:	480-123215-D-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	PJQ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

53 Acetophenone, CAS: 98-86-2

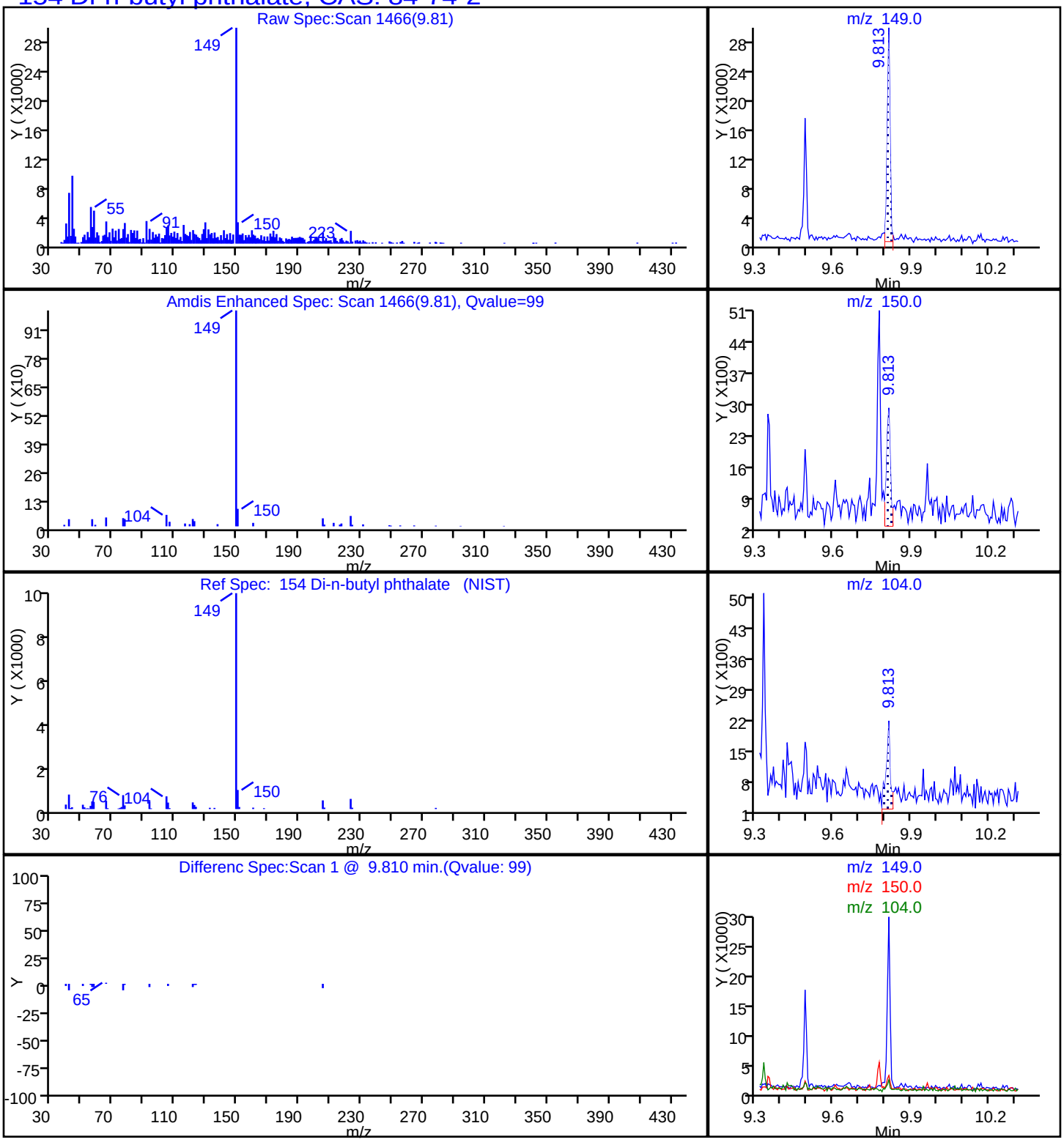


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0191.D

Injection Date:	28-Aug-2017 18:28:30	Instrument ID:	HP5973W		
Lims ID:	480-123215-D-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	PJQ	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

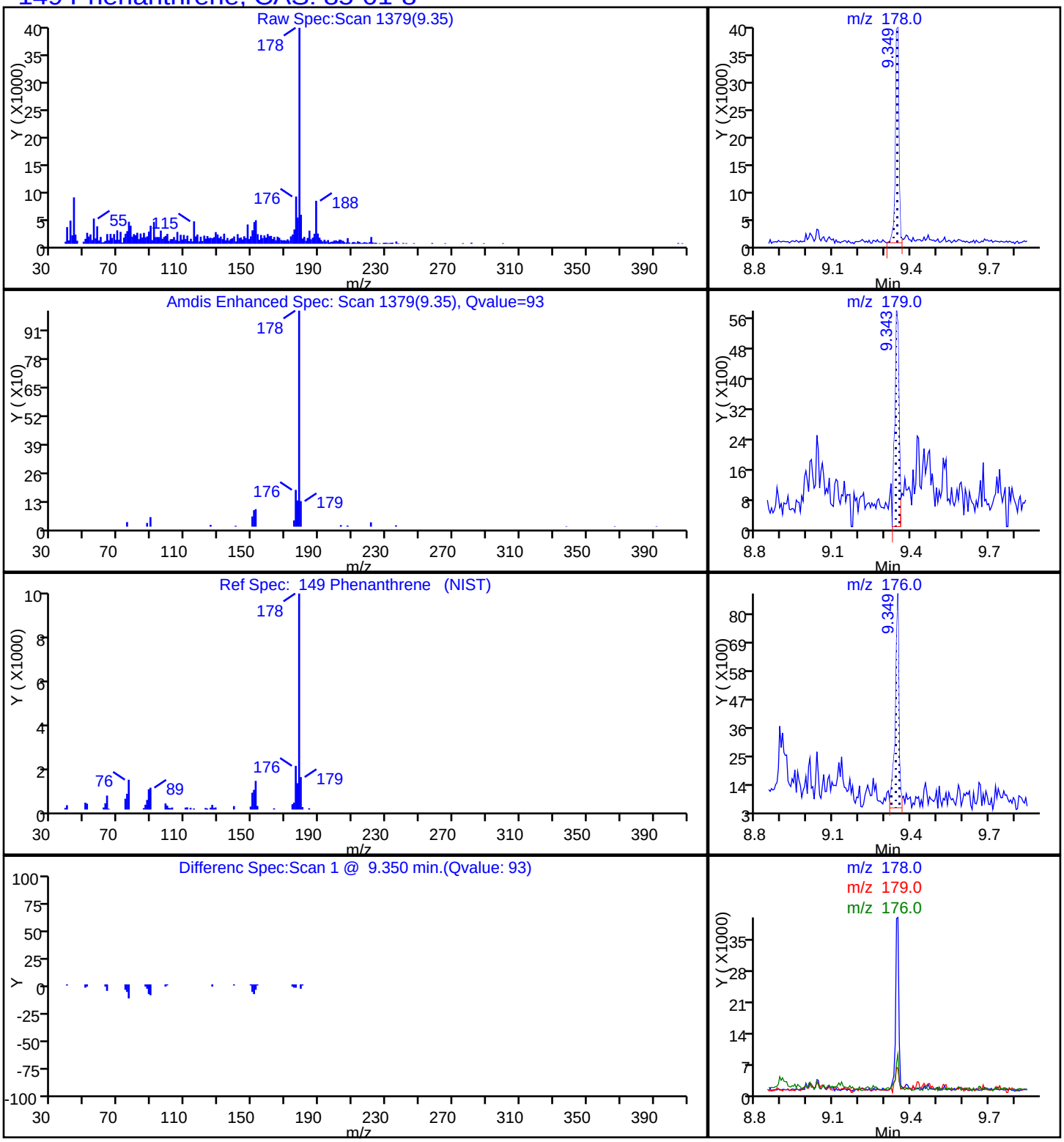
154 Di-n-butyl phthalate, CAS: 84-74-2



Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0191.D

Injection Date:	28-Aug-2017 18:28:30	Instrument ID:	HP5973W
Lims ID:	480-123215-D-3-A	Lab Sample ID:	480-123215-3
Client ID:	NS-LDP-003-GW		
Operator ID:	PJQ	ALS Bottle#:	9 Worklist Smp#: 9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN

149 Phenanthrene, CAS: 85-01-8



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372093

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 19:16 Calibration End Date: 08/14/2017 22:39 Calibration ID: 31146

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-372093/3	W9933.D
Level 2	IC 480-372093/4	W9934.D
Level 3	IC 480-372093/5	W9935.D
Level 4	IC 480-372093/6	W9936.D
Level 5	ICIS 480-372093/7	W9937.D
Level 6	IC 480-372093/8	W9938.D
Level 7	IC 480-372093/9	W9939.D
Level 8	IC 480-372093/10	W9940.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.6143	0.7187 0.5894	0.6414 0.5804	0.6388	0.6167	Lin1	0.0445	0.5902							0.9990		0.9900
N-Nitrosodimethylamine	0.7856	0.7603 0.7549	0.8279 0.7345	0.8528	0.8120	Ave		0.7897				5.4		20.0			
Pyridine	1.2589	1.0218 1.2063	1.2249 1.1726	1.3201	1.2629	Lin1	-0.011	1.2143							0.9980		0.9900
Benzaldehyde	1.1070	1.1125 1.0319	1.1694 0.9777	1.1948	1.1324	Ave		1.1036			0.0100	6.9		20.0			
Aniline	2.1620	1.9931 2.1430	2.1469 2.0655	2.2232	2.1584	Ave		2.1274				3.5		20.0			
Phenol	1.9172	1.7774 1.8838	1.9037 1.8246	1.9318	1.9015	Ave		1.8772			0.8000	3.0		20.0			
Bis(2-chloroethyl)ether	1.5013	1.5105 1.4521	1.5508 1.4223	1.5483	1.4912	Ave		1.4967			0.7000	3.2		20.0			
2-Chlorophenol	1.4459	1.2762 1.4261	1.3849 1.4171	1.4251	1.4234	Ave		1.3998			0.8000	4.1		20.0			
n-Decane	1.9382	1.9448 1.8816	1.9784 1.8077	1.9931	1.9218	Ave		1.9236			0.0100	3.3		20.0			
1,3-Dichlorobenzene	1.6188	1.5483 1.5955	1.6234 1.5621	1.6803	1.6098	Ave		1.6055				2.7		20.0			
1,4-Dichlorobenzene	1.6506	1.6847 1.6118	1.6883 1.5700	1.6793	1.6234	Ave		1.6440				2.7		20.0			
Benzyl alcohol	0.9221	0.7104 0.9144	0.8449 0.8937	0.9134	0.9039	Lin1	-0.047	0.9119							1.0000		0.9900
1,2-Dichlorobenzene	1.5459	1.5847 1.5094	1.5823 1.4805	1.5902	1.5513	Ave		1.5492				2.7		20.0			
Indene	0.5528	0.6584 0.4783	0.6546 0.4288	0.6493	0.6113	Ave		0.5762				16.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372093

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 19:16 Calibration End Date: 08/14/2017 22:39 Calibration ID: 31146

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Methylphenol	1.3665	1.2266 1.3413	1.3019 1.3322	1.3573	1.3090	Ave		1.3193			0.7000	3.6		20.0			
bis (2-chloroisopropyl) ether	2.3016	2.3827 2.2151	2.3904 2.1465	2.3962	2.3072	Ave		2.3057			0.0100	4.1		20.0			
Acetophenone	1.9476	1.7968 1.9056	1.9012 1.8455	1.9964	1.9320	Ave		1.9036			0.0100	3.5		20.0			
N-Nitrosodi-n-propylamine	1.0065	0.9186 0.9869	1.0062 0.9720	1.0277	0.9945	Ave		0.9875			0.5000	3.5		20.0			
4-Methylphenol	1.3781	1.2898 1.3649	1.3144 1.3239	1.4160	1.3680	Ave		1.3507			0.6000	3.2		20.0			
Hexachloroethane	0.6626	0.6565 0.6467	0.6342 0.6340	0.6608	0.6457	Ave		0.6486			0.3000	1.8		20.0			
Nitrobenzene	0.3488	0.3053 0.3434	0.3334 0.3462	0.3581	0.3458	Lin1	-0.008	0.3472			0.2000				1.0000		0.9900
Isophorone	0.6423	0.5722 0.6286	0.6415 0.6235	0.6553	0.6547	Ave		0.6311			0.4000	4.5		20.0			
2-Nitrophenol	0.1763	0.1215 0.1808	0.1330 0.1856	0.1513	0.1637	Lin1	-0.026	0.1816			0.1000				0.9980		0.9900
2,4-Dimethylphenol	0.3397	0.2904 0.3344	0.3450 0.3325	0.3532	0.3381	Lin1	-0.004	0.3365			0.2000				1.0000		0.9900
Bis(2-chloroethoxy)methane	0.4058	0.4008 0.3983	0.4340 0.3967	0.4279	0.4150	Ave		0.4112			0.3000	3.6		20.0			
2,4-Dichlorophenol	0.2855	0.2355 0.2852	0.2806 0.2882	0.2809	0.2878	Lin1	-0.012	0.2880			0.2000				1.0000		0.9900
Benzoic acid	0.2049	+++++ 0.2168	0.0932 0.2264	0.1433	0.1738	Lin1	-0.798	0.2301							0.9980		0.9900
1,2,4-Trichlorobenzene	0.3366	0.3408 0.3328	0.3375 0.3366	0.3322	0.3344	Ave		0.3358				0.9		20.0			
Naphthalene	1.0465 0.9793	1.0926 0.9471	1.0317 0.9352	1.0516	0.9965	Ave		1.0101			0.7000	5.4		20.0			
4-Chloroaniline	0.4040	0.3608 0.3938	0.3980 0.3785	0.4188	0.4070	Ave		0.3944			0.0100	4.9		20.0			
2,6-Dichlorophenol	0.2875	0.2532 0.2856	0.2771 0.2875	0.2831	0.2885	Ave		0.2804				4.5		20.0			
Hexachlorobutadiene	0.1909	0.1976 0.1921	0.1992 0.1942	0.1879	0.1942	Ave		0.1937			0.0100	2.0		20.0			
Caprolactam	0.1034	0.0663 0.1075	0.0891 0.1061	0.0990	0.1013	Lin1	-0.024	0.1066			0.0100				1.0000		0.9900
4-Chloro-3-methylphenol	0.2858	0.2140 0.2739	0.2614 0.2763	0.2815	0.2811	Lin1	-0.014	0.2796			0.2000				1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372093

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 19:16 Calibration End Date: 08/14/2017 22:39 Calibration ID: 31146

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Methylnaphthalene	0.6604 0.6782	0.6782 0.6611	0.6993 0.6660	0.6966	0.6840	Ave		0.6780			0.4000	2.2		20.0			
1-Methylnaphthalene	0.6512 0.6517	0.6792 0.6435	0.6710 0.6325	0.6634	0.6451	Ave		0.6547			0.0100	2.4		20.0			
Hexachlorocyclopentadiene	0.4612	0.3208 0.4747	0.4031 0.4787	0.4300	0.4377	Lin1	-0.052	0.4741			0.0500				0.9990		0.9900
1,2,4,5-Tetrachlorobenzene	0.6676	0.6406 0.6721	0.6499 0.6748	0.6621	0.6566	Ave		0.6605			0.0100	1.9		20.0			
2,4,6-Trichlorophenol	0.4167	0.2880 0.4181	0.3639 0.4448	0.3915	0.3974	Lin1	-0.049	0.4304			0.2000				0.9990		0.9900
2,4,5-Trichlorophenol	0.4230	0.3270 0.4343	0.3565 0.4034	0.4197	0.4117	Lin1	-0.027	0.4200			0.2000				0.9990		0.9900
Biphenyl	1.6788	1.6700 1.6547	1.7038 1.6471	1.7772	1.7197	Ave		1.6931			0.0100	2.7		20.0			
2-Chloronaphthalene	1.3085	1.3279 1.3108	1.3281 1.2897	1.3626	1.3056	Ave		1.3190			0.8000	1.8		20.0			
2-Nitroaniline	0.3649	0.2418 0.3703	0.3019 0.3685	0.3280	0.3467	Lin1	-0.044	0.3693			0.0100				0.9990		0.9900
Dimethyl phthalate	1.4089	1.3643 1.3565	1.4017 1.3133	1.4744	1.3597	Ave		1.3827			0.0100	3.7		20.0			
1,3-Dinitrobenzene	0.1025	0.0484 0.1078	0.0699 0.1100	0.0867	0.0950	Lin1	-0.022	0.1079							0.9970		0.9900
2,6-Dinitrotoluene	0.3237	0.2033 0.3363	0.2566 0.3405	0.2962	0.3116	Lin1	-0.048	0.3365							0.9990		0.9900
Acenaphthylene	1.6055 1.8255	1.7622 1.8283	1.8531 1.7924	1.9568	1.8466	Ave		1.8088			0.9000	5.5		20.0			
3-Nitroaniline	0.3287	0.1915 0.3389	0.2737 0.3487	0.2998	0.3162	Lin1	-0.050	0.3424			0.0100				0.9990		0.9900
Acenaphthene	1.3676 1.3593	1.4200 1.3523	1.3891 1.3409	1.4125	1.3236	Ave		1.3707			0.9000	2.5		20.0			
2,4-Dinitrophenol	0.1683	+++++ 0.1896	0.0861 0.2027	0.1148	0.1398	Lin1	-0.302	0.2010			0.0100				0.9930		0.9900
4-Nitrophenol	0.1690	0.0678 0.1779	0.1294 0.1786	0.1590	0.1664	Lin1	-0.066	0.1782			0.0100				0.9990		0.9900
2,4-Dinitrotoluene	0.4204	0.2264 0.4452	0.3150 0.4584	0.3646	0.3927	Lin1	-0.083	0.4461			0.2000				0.9970		0.9900
Dibenzofuran	1.7305	1.8154 1.7120	1.8127 1.6734	1.8152	1.7732	Ave		1.7618			0.8000	3.3		20.0			
2,3,4,6-Tetrachlorophenol	0.3427	0.2158 0.3533	0.2827 0.3719	0.3011	0.3232	Lin1	-0.054	0.3593			0.0100				0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372093

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 19:16 Calibration End Date: 08/14/2017 22:39 Calibration ID: 31146

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Diethyl phthalate	1.3443	1.2879 1.3600	1.3596 1.3617	1.3987	1.3596	Ave		1.3531			0.0100	2.5		20.0			
Hexadecane	1.0208	1.0279 0.9945	1.0843 0.9564	1.1043	1.0474	Ave		1.0337			0.0100	4.9		20.0			
Fluorene	1.3647 1.4560	1.4218 1.4190	1.4353 1.4205	1.4859	1.4348	Ave		1.4297			0.9000	2.4		20.0			
4-Chlorophenyl phenyl ether	0.7290	0.7295 0.7249	0.7372 0.7058	0.7433	0.7161	Ave		0.7266			0.4000	1.7		20.0			
4-Nitroaniline	0.3456	0.2122 0.3563	0.3126 0.3543	0.3406	0.3336	Lin1	-0.038	0.3551			0.0100				1.0000		0.9900
4,6-Dinitro-2-methylphenol	0.1217	0.0428 0.1309	0.0706 0.1383	0.0914	0.1033	Ave		0.0999			0.0100	34.5	*	20.0			
Diphenylamine	0.6708	0.6185 0.6632	0.6687 0.6667	0.6628	0.6534	Ave		0.6577				2.8		20.0			
N-Nitrosodiphenylamine	0.5735	0.5288 0.5670	0.5717 0.5700	0.5667	0.5587	Ave		0.5623			0.0100	2.8		20.0			
1,2-Diphenylhydrazine	1.3700	1.3069 1.3620	1.5132 1.3043	1.5045	1.4269	Ave		1.3983				6.2		20.0			
trans-Azobenzene	0.7753	0.7392 0.7533	0.8554 0.7180	0.8282	0.8052	Ave		0.7821				6.4		20.0			
4-Bromophenyl phenyl ether	0.2320	0.2124 0.2298	0.2196 0.2338	0.2229	0.2266	Ave		0.2253			0.1000	3.4		20.0			
Hexachlorobenzene	0.2552	0.2400 0.2569	0.2442 0.2555	0.2500	0.2492	Ave		0.2502			0.1000	2.5		20.0			
Atrazine	0.3905	0.3167 0.3874	0.3746 0.3883	0.3954	0.3842	Lin1	-0.031	0.3902			0.0100				1.0000		0.9900
Pentachlorophenol	0.1336	0.0530 0.1411	0.0894 +++++	0.1058	0.1189	Lin1	-0.060	0.1370			0.0500				0.9950		0.9900
n-Octadecane	0.5641	0.5283 0.5449	0.5771 0.5297	0.5763	0.5798	Ave		0.5572			0.0100	4.1		20.0			
Phenanthrene	1.1793 1.1787	1.2324 1.1386	1.2336 1.0946	1.1822	1.1714	Ave		1.1763			0.7000	3.9		20.0			
Anthracene	1.0558 1.2032	1.1340 1.1649	1.1906 1.1200	1.2062	1.1974	Ave		1.1590			0.7000	4.6		20.0			
Carbazole	0.8080	0.8867 0.8237	0.9484 0.8465	0.9392	0.8482	Ave		0.8715			0.0100	6.3		20.0			
Di-n-butyl phthalate	1.2459	0.9840 1.1953	1.2086 1.1205	1.2096	1.2472	Lin1	-0.012	1.1835			0.0100				0.9970		0.9900
Fluoranthene	0.9846 1.2188	1.0649 1.1904	1.1752 1.1482	1.1842	1.1955	Lin1	-0.021	1.1825			0.6000				0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372093

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 19:16 Calibration End Date: 08/14/2017 22:39 Calibration ID: 31146

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Benzidine	0.4069	0.2830 0.4745	0.2593 0.4694	0.2315	0.2885	Ave		0.3447				29.8	*	20.0			
Pyrene	1.1369 1.1977	1.1844 1.1850	1.1678 1.1550	1.2548	1.2356	Ave		1.1897			0.6000	3.3		20.0			
Butyl benzyl phthalate	0.5447	0.3577 0.5445	0.4649 0.5368	0.5111	0.5243	Lin1	-0.054	0.5441			0.0100				1.0000		0.9900
3,3'-Dichlorobenzidine	0.2975	0.2729 0.3448	0.2342 +++++	0.2080	0.2322	Ave		0.2649			0.0100	19.1		20.0			
Benzo(a)anthracene	1.0922 1.1852	1.0673 1.2089	1.1655 1.1945	1.1919	1.1701	Ave		1.1594			0.8000	4.4		20.0			
Bis(2-ethylhexyl) phthalate	0.8093	0.5190 0.8027	0.6869 0.7973	0.7752	0.7966	Lin1	-0.078	0.8085			0.0100				1.0000		0.9900
Chrysene	1.1915 1.1523	1.1651 1.1239	1.1254 1.0973	1.1726	1.1639	Ave		1.1490			0.7000	2.7		20.0			
Di-n-octyl phthalate	1.3500	0.6692 1.3416	1.0133 1.3205	1.2047	1.3025	Lin1	-0.204	1.3469			0.0100				0.9990		0.9900
Benzo(b)fluoranthene	0.9293 1.2471	0.9371 1.2651	1.1894 1.2916	1.1736	1.2116	Lin1	-0.065	1.2698			0.7000				0.9990		0.9900
Benzo(k)fluoranthene	0.9663 1.2686	1.1396 1.2792	1.2340 1.2296	1.2479	1.2426	Lin1	-0.032	1.2573			0.7000				1.0000		0.9900
Benzo(a)pyrene	0.7350 1.1988	0.8276 1.1828	1.0509 1.1867	1.0940	1.1470	Lin1	-0.077	1.1876			0.7000				1.0000		0.9900
Indeno(1,2,3-cd)pyrene	0.9449 1.4918	1.0865 1.5122	1.2903 1.5090	1.3637	1.4537	Lin1	-0.098	1.5040			0.5000				0.9990		0.9900
Dibenz(a,h)anthracene	0.8577 1.2886	1.0051 1.2881	1.1335 1.3006	1.1806	1.2349	Lin1	-0.074	1.2901							1.0000		0.9900
Benzo(g,h,i)perylene	0.9544 1.2774	1.0139 1.2674	1.1570 1.2794	1.2009	1.2457	Lin1	-0.057	1.2742			0.5000				1.0000		0.9900
2-Fluorophenol	1.3774	1.1381 1.3584	1.2802 1.2902	1.3806	1.3162	Lin1	-0.036	1.3365							0.9990		0.9900
Phenol-d5	1.6908	1.3936 1.6513	1.6347 1.6340	1.6897	1.6718	Lin1	-0.043	1.6610							1.0000		0.9900
Nitrobenzene-d5	0.3466	0.3114 0.3447	0.3127 0.3480	0.3393	0.3427	Lin1	-0.014	0.3472							1.0000		0.9900
2-Fluorobiphenyl	1.4956	1.4698 1.4878	1.4962 1.4670	1.5526	1.4881	Ave		1.4939				1.9		20.0			
2,4,6-Tribromophenol	0.1196	0.0849 0.1209	0.0985 0.1260	0.1015	0.1127	Lin1	-0.016	0.1227							0.9980		0.9900
p-Terphenyl-d14	0.8721	0.8097 0.8769	0.8162 0.8441	0.8673	0.8773	Ave		0.8520				3.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372093

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 19:16 Calibration End Date: 08/14/2017 22:39 Calibration ID: 31146

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-372093/3	W9933.D
Level 2	IC 480-372093/4	W9934.D
Level 3	IC 480-372093/5	W9935.D
Level 4	IC 480-372093/6	W9936.D
Level 5	ICIS 480-372093/7	W9937.D
Level 6	IC 480-372093/8	W9938.D
Level 7	IC 480-372093/9	W9939.D
Level 8	IC 480-372093/10	W9940.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Lin1	259368	8573 390605	31960 517654	65142	128716	8.00	0.250 12.0	1.00 16.0	2.00	4.00
N-Nitrosodimethylamine	DCBd 4	Ave	331695	9070 500281	41252 655132	86962	169480	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Pyridine	DCBd 4	Lin1	1063060	24379 1598774	122070 2091649	269234	527162	16.0	0.500 24.0	2.00 32.0	4.00	8.00
Benzaldehyde	DCBd 4	Ave	934808	26541 1367605	116535 1743971	243671	472684	16.0	0.500 24.0	2.00 32.0	4.00	8.00
Aniline	DCBd 4	Ave	912846	23775 1420134	106976 1842245	226716	450475	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Phenol	DCBd 4	Ave	809512	21202 1248389	94857 1627393	196994	396866	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Bis(2-chloroethyl)ether	DCBd 4	Ave	633897	18019 962298	77274 1268570	157887	311225	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Chlorophenol	DCBd 4	Ave	610491	15224 945082	69003 1263921	145321	297084	8.00	0.250 12.0	1.00 16.0	2.00	4.00
n-Decane	DCBd 4	Ave	818340	23199 1246892	98578 1612318	203251	401093	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,3-Dichlorobenzene	DCBd 4	Ave	683506	18469 1057316	80890 1393287	171354	335979	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,4-Dichlorobenzene	DCBd 4	Ave	696916	20096 1068109	84124 1400328	171245	338825	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzyl alcohol	DCBd 4	Lin1	389314	8474 605988	42099 797140	93146	188657	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,2-Dichlorobenzene	DCBd 4	Ave	652736	18904 1000248	78842 1320507	162162	323784	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Indene	NPT	Ave	4819280	156158 6556817	654704 7723204	1345833	2594148	40.0	1.25 60.0	5.00 80.0	10.0	20.0
2-Methylphenol	DCBd 4	Ave	576984	14632 888858	64871 1188227	138416	273197	8.00	0.250 12.0	1.00 16.0	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372093

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 19:16 Calibration End Date: 08/14/2017 22:39 Calibration ID: 31146

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
bis (2-chloroisopropyl) ether	DCBd 4	Ave	971798	28423 1467928	119105 1914511	244355	481537	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Acetophenone	DCBd 4	Ave	822310	21434 1262824	94729 1646003	203585	403226	8.00	0.250 12.0	1.00 16.0	2.00	4.00
N-Nitrosodi-n-propylamine	DCBd 4	Ave	424965	10958 653980	50135 866949	104800	207568	8.00	0.250 12.0	1.00 16.0	2.00	4.00
4-Methylphenol	DCBd 4	Ave	581860	15386 904486	65492 1180779	144396	285512	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Hexachloroethane	DCBd 4	Ave	279763	7831 428581	31602 565489	67381	134770	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Nitrobenzene	NPT	Lin1	608271	14479 941492	66682 1246914	148455	293506	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Isophorone	NPT	Ave	1119942	27140 1723400	128305 2245932	271649	555682	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Nitrophenol	NPT	Lin1	307347	5765 495722	26594 668657	62731	138946	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,4-Dimethylphenol	NPT	Lin1	592279	13772 916965	69001 1197628	146403	286966	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Bis(2-chloroethoxy)methane	NPT	Ave	707503	19009 1092055	86802 1428883	177400	352183	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,4-Dichlorophenol	NPT	Lin1	497795	11170 782066	56117 1038029	116468	244290	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzoic acid	NPT	Lin1	1786769	+++++ 2972338	93258 4077438	296939	737516	40.0	+++++ 60.0	5.00 80.0	10.0	20.0
1,2,4-Trichlorobenzene	NPT	Ave	586913	16163 912491	67507 1212398	137711	283806	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Naphthalene	NPT	Ave	26305 1707639	51824 2596710	206351 3368306	435965	845764	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
4-Chloroaniline	NPT	Ave	704401	17113 1079773	79615 1363310	173607	345454	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,6-Dichlorophenol	NPT	Ave	501363	12011 782916	55433 1035550	117345	244895	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Hexachlorobutadiene	NPT	Ave	332787	9373 526748	39846 699594	77910	164806	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Caprolactam	NPT	Lin1	360704	6293 589359	35642 764179	82086	171929	16.0	0.500 24.0	2.00 32.0	4.00	8.00
4-Chloro-3-methylphenol	NPT	Lin1	498431	10149 751028	52294 995151	116710	238549	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Methylnaphthalene	NPT	Ave	16601 1182580	32170 1812561	139864 2398720	288778	580567	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
1-Methylnaphthalene	NPT	Ave	16369 1136401	32216 1764309	134221 2278356	275013	547545	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372093

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 19:16 Calibration End Date: 08/14/2017 22:39 Calibration ID: 31146

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Hexachlorocyclopentadiene	ANT	Lin1	385549	7198 613507	38729 813002	84328	178386	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	558044	14372 868589	62437 1146060	129827	267597	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,4,6-Trichlorophenol	ANT	Lin1	348363	6461 540397	34961 755309	76772	161977	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,4,5-Trichlorophenol	ANT	Lin1	353633	7337 561303	34250 685125	82296	167797	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Biphenyl	ANT	Ave	1403380	37466 2138505	163681 2797180	348500	700924	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Chloronaphthalene	ANT	Ave	1093817	29791 1694098	127584 2190285	267193	532130	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Nitroaniline	ANT	Lin1	305039	5424 478616	29007 625888	64311	141292	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Dimethyl phthalate	ANT	Ave	1177729	30609 1753202	134653 2230246	289112	554169	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,3-Dinitrobenzene	NPT	Lin1	178800	2297 295515	13987 396098	35924	80669	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,6-Dinitrotoluene	ANT	Lin1	270612	4562 434609	24646 578234	58076	126986	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Acenaphthylene	ANT	Ave	18907 1526037	39535 2362868	178018 3044011	383707	752647	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
3-Nitroaniline	ANT	Lin1	274771	4296 437939	26293 592149	58791	128869	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Acenaphthene	ANT	Ave	16105 1136298	31858 1747764	133448 2277123	276982	539470	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,4-Dinitrophenol	ANT	Lin1	281317	+++++ 490128	16541 688338	45017	113951	16.0	+++++ 24.0	2.00 32.0	4.00	8.00
4-Nitrophenol	ANT	Lin1	282584	3042 459732	24862 606641	62355	135610	16.0	0.500 24.0	2.00 32.0	4.00	8.00
2,4-Dinitrotoluene	ANT	Lin1	351419	5080 575323	30263 778553	71493	160051	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Dibenzofuran	ANT	Ave	1446598	40729 2212552	174140 2841827	355950	722722	8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,3,4,6-Tetrachlorophenol	ANT	Lin1	286453	4842 456561	27155 631638	59038	131746	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Diethyl phthalate	ANT	Ave	1123783	28893 1757637	130615 2312485	274267	554147	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Hexadecane	ANT	Ave	853338	23061 1285335	104169 1624204	216538	426878	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Fluorene	ANT	Ave	16071 1217149	31898 1833903	137882 2412296	291369	584803	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00

FORM VI
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RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372093

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 19:16 Calibration End Date: 08/14/2017 22:39 Calibration ID: 31146

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Chlorophenyl phenyl ether	ANT	Ave	609443	16366 936853	70823 1198554	145757	291876	8.00	0.250 12.0	1.00 16.0	2.00	4.00
4-Nitroaniline	ANT	Lin1	288896	4761 460440	30027 601773	66786	135951	8.00	0.250 12.0	1.00 16.0	2.00	4.00
4,6-Dinitro-2-methylphenol	PHN	Ave	359492	3396 611947	23999 853140	65151	149179	16.0	0.500 24.0	2.00 32.0	4.00	8.00
Diphenylamine	PHN	Ave	847186	20976 1324880	97155 1758347	201878	403502	6.84	0.214 10.3	0.855 13.7	1.71	3.42
N-Nitrosodiphenylamine	PHN	Ave	847186	20976 1324880	97155 1758347	201878	403502	8.00	0.250 12.0	1.00 16.0	2.00	4.00
1,2-Diphenylhydrazine	ANT	Ave	1145215	29321 1760315	145368 2214984	295014	581562	8.00	0.250 12.0	1.00 16.0	2.00	4.00
trans-Azobenzene	PHN	Ave	1145215	29321 1760315	145368 2214984	295014	581562	8.00	0.250 12.0	1.00 16.0	2.00	4.00
4-Bromophenyl phenyl ether	PHN	Ave	342765	8427 536992	37310 721087	79395	163668	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Hexachlorobenzene	PHN	Ave	377044	9519 600380	41495 788208	89058	180008	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Atrazine	ANT	Lin1	652809	14210 1001412	71976 1318827	155070	313210	16.0	0.500 24.0	2.00 32.0	4.00	8.00
Pentachlorophenol	PHN	Lin1	394664	4207 659440	30386 +++++	75350	171778	16.0	0.500 24.0	2.00 +++++	4.00	8.00
n-Octadecane	PHN	Ave	833333	20957 1273290	98069 1634028	205303	418788	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Phenanthrene	PHN	Ave	24975 1741124	48888 2660528	209637 3376538	421137	846094	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Anthracene	PHN	Ave	22360 1777337	44984 2722013	202330 3455066	429693	864872	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Carbazole	PHN	Ave	1193613	35174 1924757	161167 2611357	334579	612657	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Di-n-butyl phthalate	PHN	Lin1	1840483	39035 2793128	205384 3456681	430906	900816	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Fluoranthene	PHN	Lin1	20853 1800393	42241 2781569	199707 3542034	421835	863505	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzidine	CRY	Ave	615474	10766 1125154	45443 1471107	81291	209268	8.00	0.250 12.0	1.00 16.0	2.00	4.00
Pyrene	CRY	Ave	22282 1811637	45052 2809882	204659 3619984	440622	896250	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Butyl benzyl phthalate	CRY	Lin1	823901	13604 1291192	81474 1682373	179468	380285	8.00	0.250 12.0	1.00 16.0	2.00	4.00
3,3'-Dichlorobenzidine	CRY	Ave	449935	10381 817664	41036 +++++	73054	168440	8.00	0.250 12.0	1.00 +++++	2.00	4.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 372093

SDG No.:

Instrument ID: HP5973W GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 19:16 Calibration End Date: 08/14/2017 22:39 Calibration ID: 31146

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzo(a)anthracene	CRY	Ave	21405 1792640	40596 2866442	204251 3743777	418545	848687	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Bis(2-ethylhexyl) phthalate	CRY	Lin1	 1224139	19741 1903335	120371 2498869	272231	577815	 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Chrysene	CRY	Ave	23352 1742968	44316 2665071	197220 3439119	411747	844232	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Di-n-octyl phthalate	CRY	Lin1	 2042022	25455 3181195	177590 4138757	423038	944785	 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo(b)fluoranthene	PRY	Lin1	17119 1723873	33440 2783498	180923 3778606	380063	807113	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo(k)fluoranthene	PRY	Lin1	17799 1753590	40664 2814576	187702 3597218	404119	827791	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo(a)pyrene	PRY	Lin1	13539 1656987	29532 2602566	159850 3471571	354287	764103	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Indeno(1,2,3-cd)pyrene	PRY	Lin1	17406 2062071	38771 3327296	196267 4414588	441603	968441	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Dibenz(a,h)anthracene	PRY	Lin1	15799 1781205	35865 2834040	172409 3804913	382334	822652	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Benzo(g,h,i)perylene	PRY	Lin1	17581 1765762	36178 2788623	175983 3742888	388889	829823	0.125 8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Fluorophenol	DCBd 4	Lin1	 581573	13576 900200	63789 1150710	140792	274702	 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Phenol-d5	DCBd 4	Lin1	 713894	16624 1094293	81454 1457372	172309	348921	 8.00	0.250 12.0	1.00 16.0	2.00	4.00
Nitrobenzene-d5	NPT	Lin1	 604317	14772 945077	62556 1253581	140678	290861	 8.00	0.250 12.0	1.00 16.0	2.00	4.00
2-Fluorobiphenyl	ANT	Ave	 1250195	32974 1922836	143731 2491358	304454	606498	 8.00	0.250 12.0	1.00 16.0	2.00	4.00
2,4,6-Tribromophenol	PHN	Lin1	 176703	3367 282541	16744 388601	36167	81399	 8.00	0.250 12.0	1.00 16.0	2.00	4.00
p-Terphenyl-d14	CRY	Ave	 1319152	30800 2079267	143039 2645690	304572	636309	 8.00	0.250 12.0	1.00 16.0	2.00	4.00

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9933.D
Lims ID: IC L1 .125
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Aug-2017 19:16:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064854-003
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 15-Aug-2017 18:11:22 Calib Date: 14-Aug-2017 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: richardsd Date: 15-Aug-2017 18:02:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.609	5.609	0.000	97	199744	4.00	4.00	
* 2 Naphthalene-d8	136	6.720	6.720	0.000	100	804376	4.00	4.00	
* 3 Acenaphthene-d10	164	8.174	8.173	0.001	97	376844	4.00	4.00	
* 4 Phenanthrene-d10	188	9.381	9.386	-0.005	98	677704	4.00	4.00	
* 5 Chrysene-d12	240	11.603	11.608	-0.005	97	627140	4.00	4.00	
* 6 Perylene-d12	264	13.217	13.217	0.001	98	589459	4.00	4.00	
76 Naphthalene	128	6.736	6.736	0.000	94	26305	0.1250	0.1295	
89 2-Methylnaphthalene	142	7.313	7.319	-0.006	92	16601	0.1250	0.1218	
91 1-Methylnaphthalene	142	7.399	7.399	0.000	93	16369	0.1250	0.1243	
107 Acenaphthylene	152	8.056	8.056	0.000	98	18907	0.1250	0.1110	
109 Acenaphthene	153	8.195	8.200	-0.005	94	16105	0.1250	0.1247	
123 Fluorene	166	8.617	8.622	-0.005	95	16071	0.1250	0.1193	
149 Phenanthrene	178	9.402	9.407	-0.005	95	24975	0.1250	0.1253	M
150 Anthracene	178	9.445	9.445	0.000	96	22360	0.1250	0.1139	
161 Fluoranthene	202	10.375	10.374	0.001	97	20853	0.1250	0.1221	
165 Pyrene	202	10.556	10.561	-0.005	97	22282	0.1250	0.1195	
179 Benzo[a]anthracene	228	11.598	11.598	0.000	98	21405	0.1250	0.1178	
181 Chrysene	228	11.630	11.635	-0.005	97	23352	0.1250	0.1296	M
186 Benzo[b]fluoranthene	252	12.752	12.757	-0.005	97	17119	0.1250	0.1428	
187 Benzo[k]fluoranthene	252	12.784	12.789	-0.005	98	17799	0.1250	0.1216	M
189 Benzo[a]pyrene	252	13.136	13.147	-0.011	78	13539	0.1250	0.1421	
193 Indeno[1,2,3-cd]pyrene	276	14.558	14.568	-0.010	97	17406	0.1250	0.1440	M
194 Dibenz(a,h)anthracene	278	14.584	14.595	-0.011	90	15799	0.1250	0.1401	
195 Benzo[g,h,i]perylene	276	14.899	14.910	-0.011	98	17581	0.1250	0.1383	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00261	Amount Added:	1.00	Units: mL	
MB_LLIS_WRK_00133	Amount Added:	20.00	Units: uL	Run Reagent

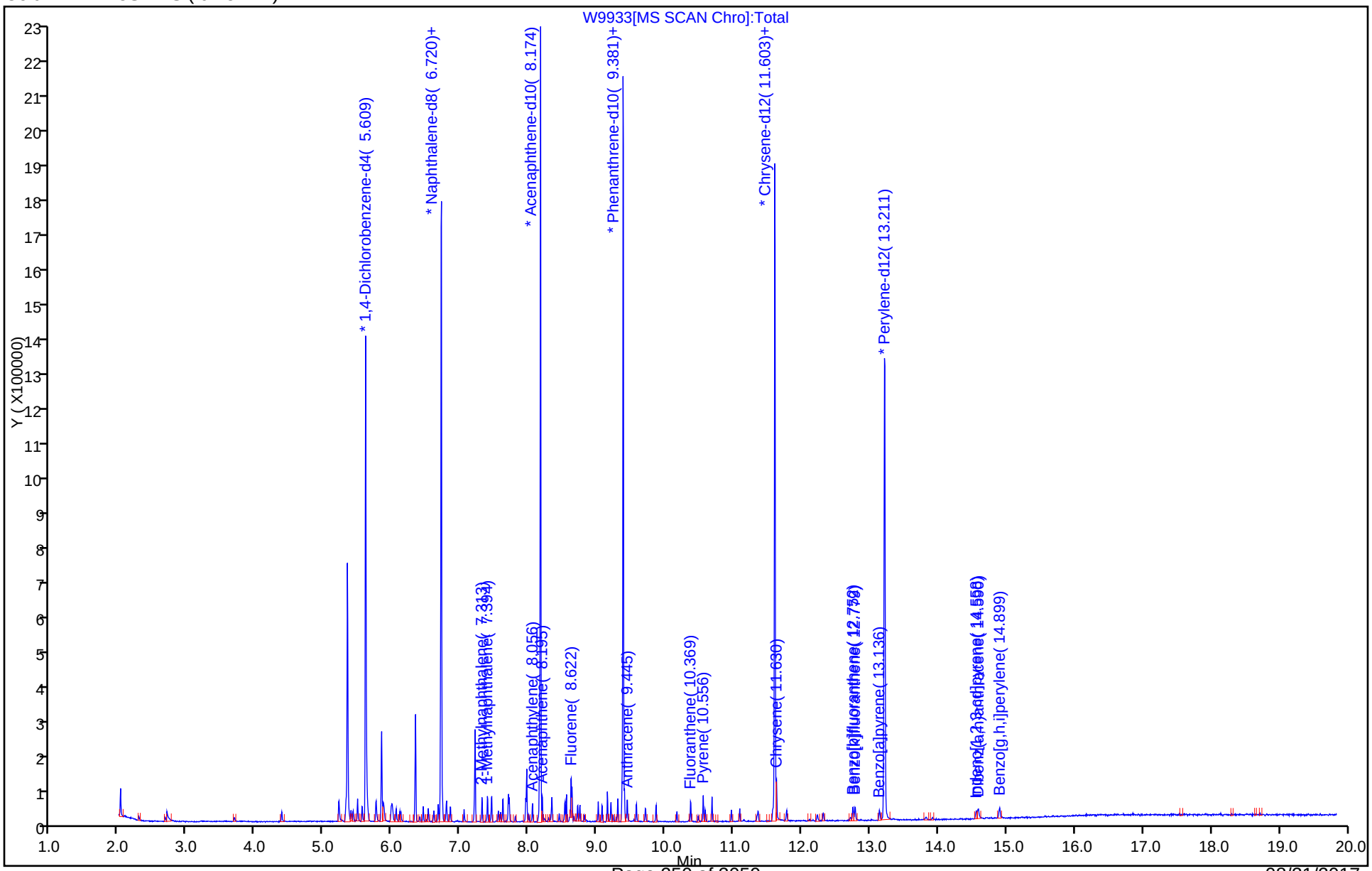
Report Date: 15-Aug-2017 18:11:23 Chrom Revision: 2.2 08-Aug-2017 17:51:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9933.D

Injection Date:	14-Aug-2017 19:16:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 .125			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

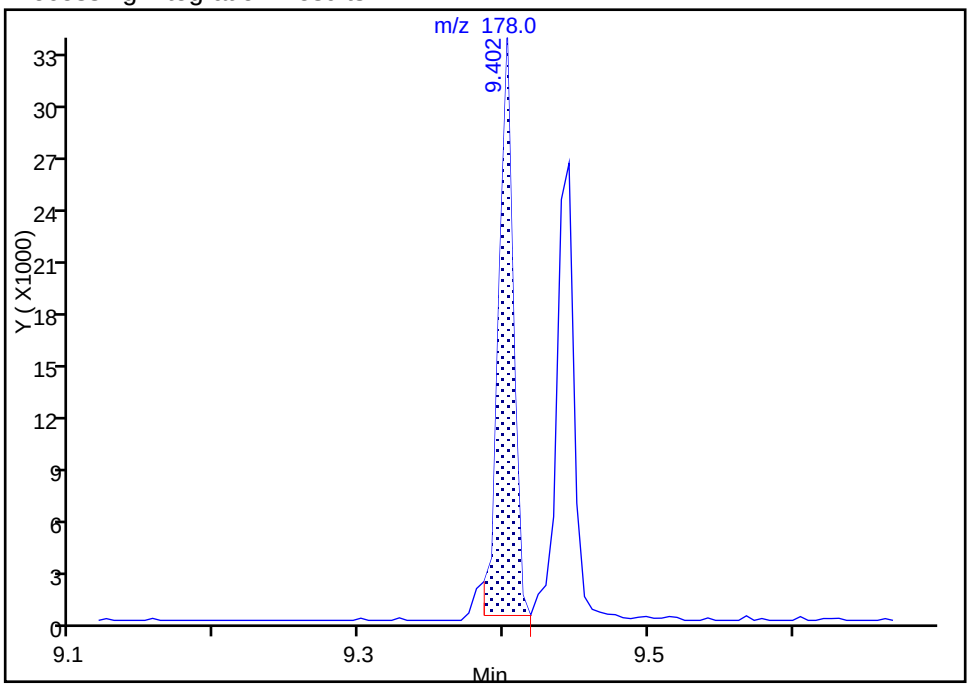
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9933.D
Injection Date: 14-Aug-2017 19:16:30 Instrument ID: HP5973W
Lims ID: IC L1 .125
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

149 Phenanthrene, CAS: 85-01-8

Signal: 1

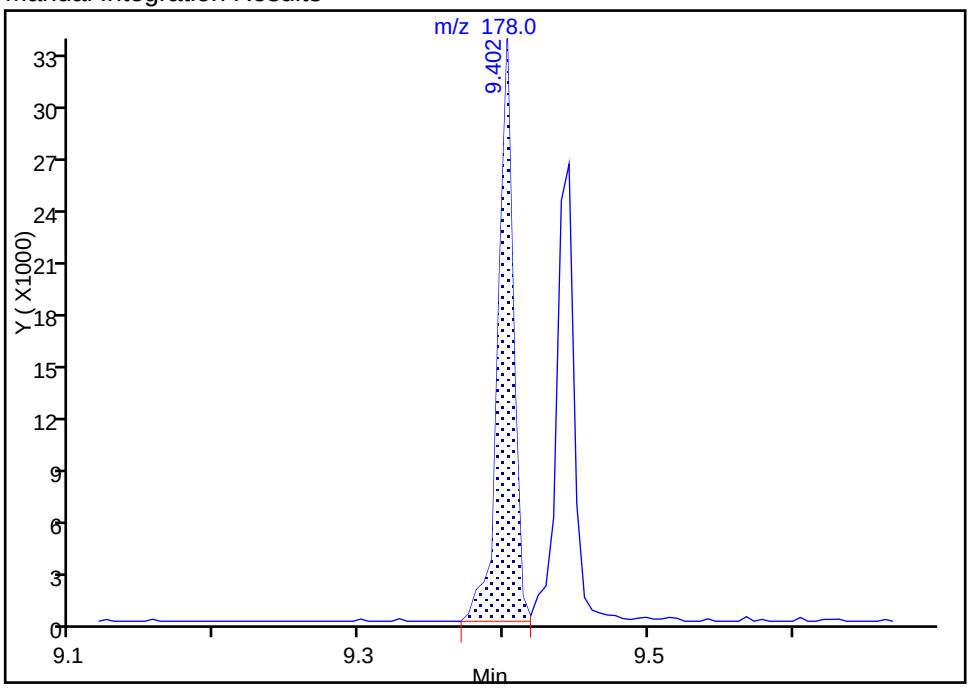
Processing Integration Results

RT: 9.40
Area: 23619
Amount: 0.119319
Amount Units: ng/uL



Manual Integration Results

RT: 9.40
Area: 24975
Amount: 0.125311
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:01:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

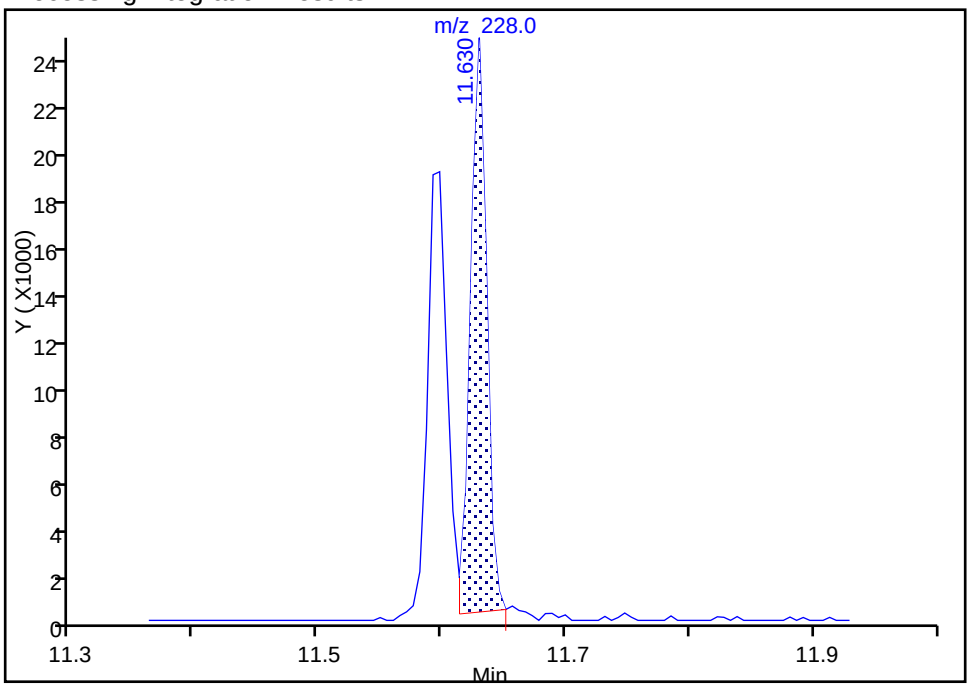
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9933.D
Injection Date: 14-Aug-2017 19:16:30 Instrument ID: HP5973W
Lims ID: IC L1 .125
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

181 Chrysene, CAS: 218-01-9

Signal: 1

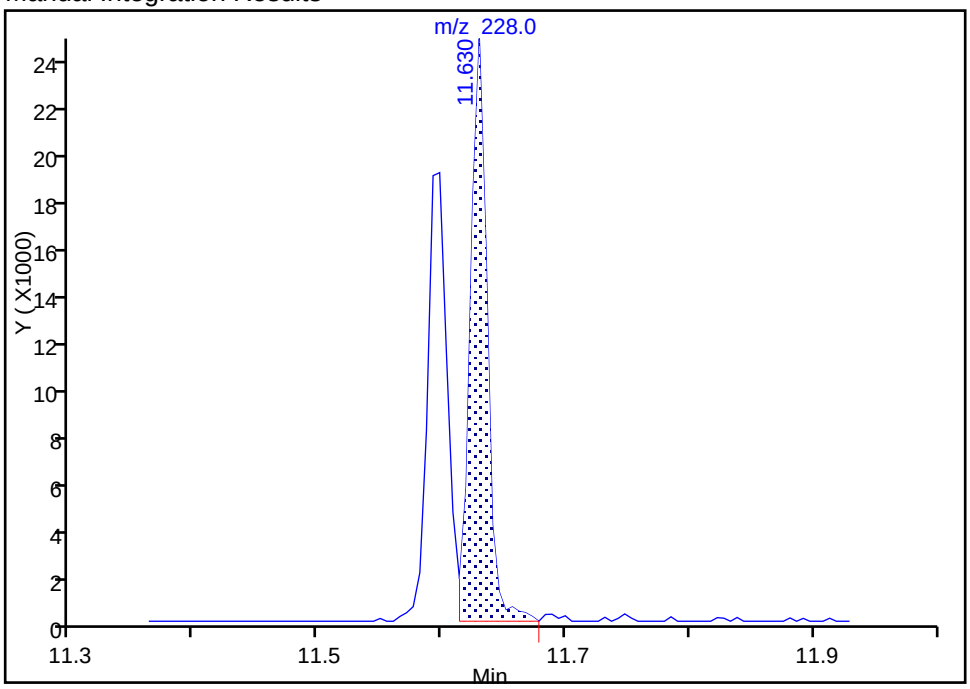
Processing Integration Results

RT: 11.63
Area: 21918
Amount: 0.122520
Amount Units: ng/uL



Manual Integration Results

RT: 11.63
Area: 23352
Amount: 0.129628
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:02:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

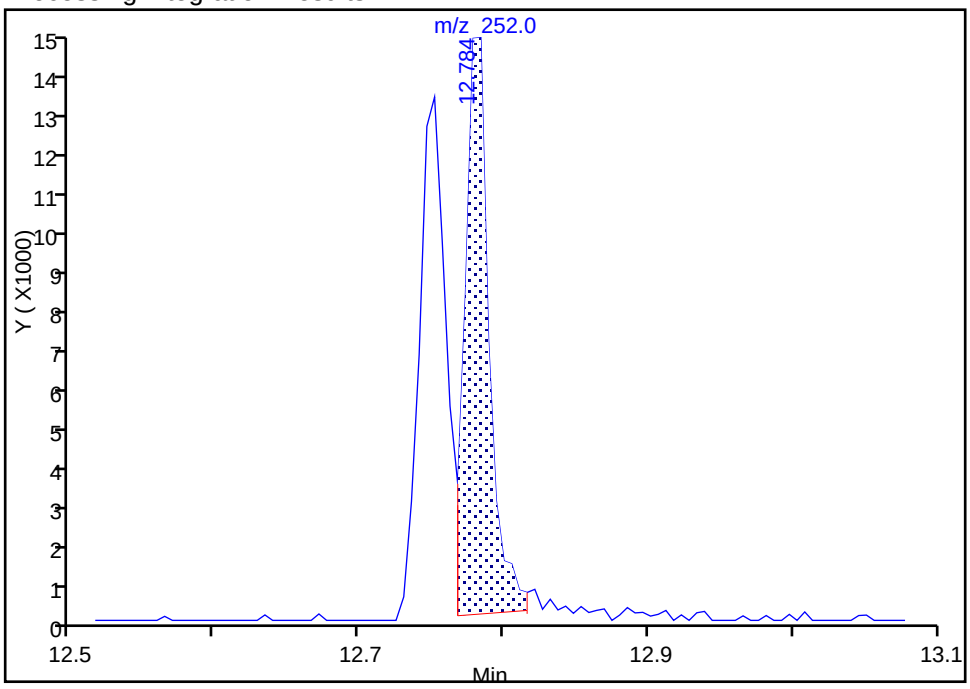
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9933.D
Injection Date: 14-Aug-2017 19:16:30 Instrument ID: HP5973W
Lims ID: IC L1 .125
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

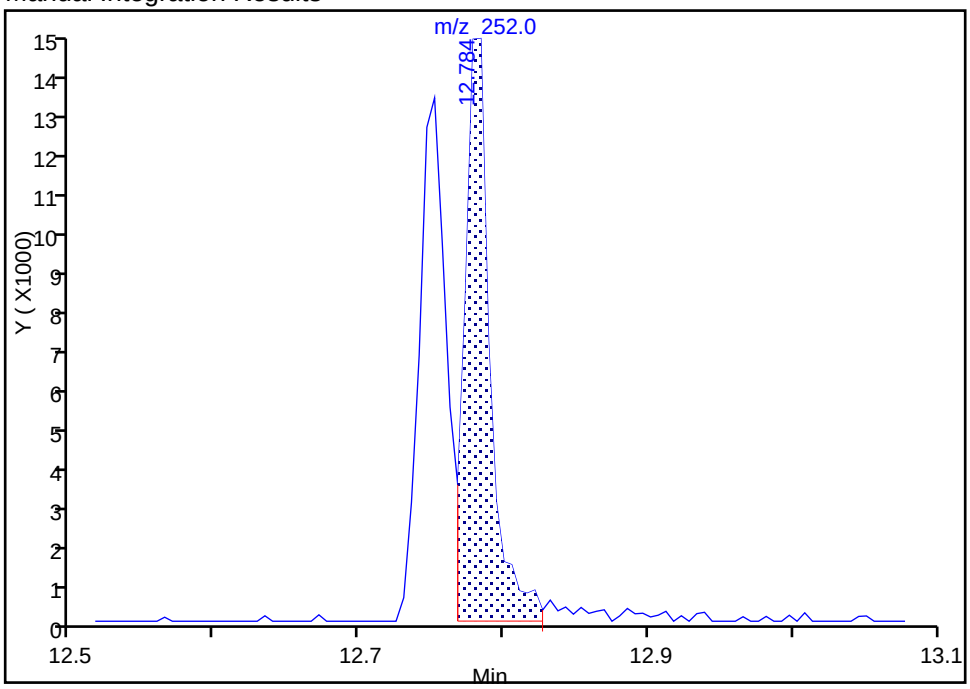
Processing Integration Results

RT: 12.78
Area: 16901
Amount: 0.097495
Amount Units: ng/uL



Manual Integration Results

RT: 12.78
Area: 17799
Amount: 0.121635
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:24:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

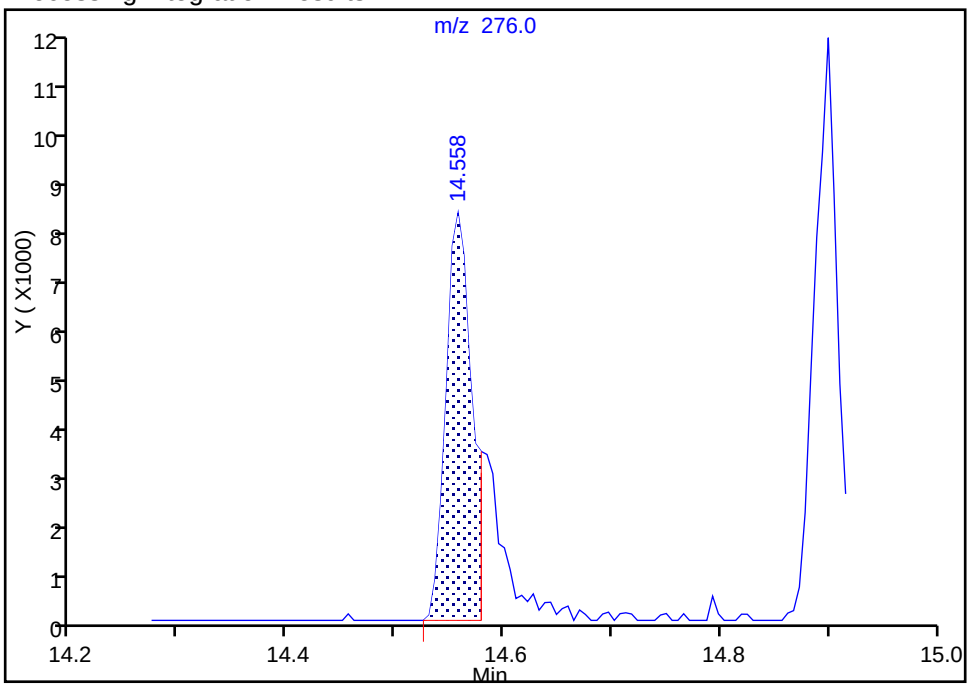
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9933.D
Injection Date: 14-Aug-2017 19:16:30 Instrument ID: HP5973W
Lims ID: IC L1 .125
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

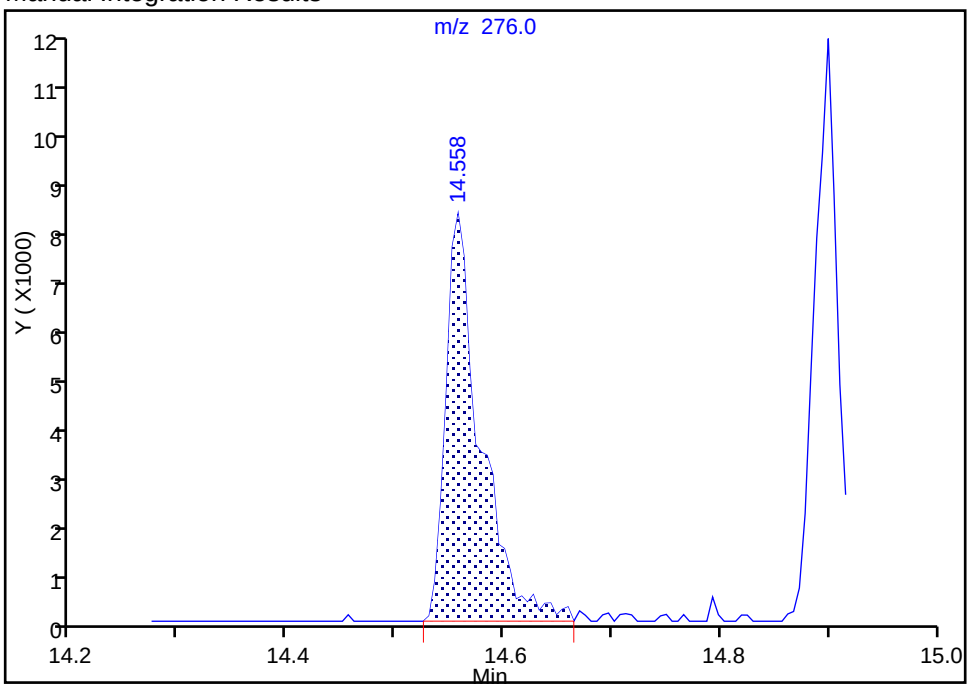
Processing Integration Results

RT: 14.56
Area: 13214
Amount: 0.142500
Amount Units: ng/uL



Manual Integration Results

RT: 14.56
Area: 17406
Amount: 0.143960
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:24:43
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D
Lims ID: IC L1 .25
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Aug-2017 19:45:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064854-004
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 15-Aug-2017 18:11:26 Calib Date: 14-Aug-2017 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: quirkp Date: 15-Aug-2017 12:26:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.609	5.609	0.000	98	190862	4.00	4.00	
* 2 Naphthalene-d8	136	6.720	6.720	0.000	100	758916	4.00	4.00	
* 3 Acenaphthene-d10	164	8.173	8.173	0.000	96	358961	4.00	4.00	
* 4 Phenanthrene-d10	188	9.381	9.386	-0.005	97	634692	4.00	4.00	
* 5 Chrysene-d12	240	11.603	11.608	-0.005	97	608585	4.00	4.00	
* 6 Perylene-d12	264	13.211	13.217	-0.005	98	570926	4.00	4.00	
$ 7 2-Fluorophenol	112	4.380	4.375	0.005	93	13576	0.2500	0.2395	
$ 8 Phenol-d5	99	5.315	5.315	0.000	95	16624	0.2500	0.2359	
$ 9 Nitrobenzene-d5	82	6.111	6.111	0.000	89	14772	0.2500	0.2648	
$ 10 2-Fluorobiphenyl	172	7.623	7.623	0.000	100	32974	0.2500	0.2460	
$ 11 2,4,6-Tribromophenol	330	8.820	8.820	0.000	91	3367	0.2500	0.3013	
$ 12 p-Terphenyl-d14	244	10.684	10.690	-0.006	98	30800	0.2500	0.2376	
14 1,4-Dioxane	88	2.286	2.276	0.010	95	8573	0.2500	0.2290	
15 N-Nitrosodimethylamine	42	2.666	2.650	0.016	93	9070	0.2500	0.2407	
16 Pyridine	52	2.682	2.650	0.032	92	24379	0.5000	0.4296	
36 Benzaldehyde	77	5.219	5.214	0.005	94	26541	0.5000	0.5040	
37 Phenol	94	5.326	5.326	0.000	81	21202	0.2500	0.2367	M
38 Aniline	93	5.326	5.326	0.000	78	23775	0.2500	0.2342	
40 Bis(2-chloroethyl)ether	93	5.396	5.390	0.006	95	18019	0.2500	0.2523	
41 2-Chlorophenol	128	5.428	5.428	0.000	97	15224	0.2500	0.2279	
43 n-Decane	57	5.492	5.492	0.000	92	23199	0.2500	0.2527	
44 1,3-Dichlorobenzene	146	5.561	5.561	0.000	96	18469	0.2500	0.2411	
45 1,4-Dichlorobenzene	146	5.625	5.625	0.000	92	20096	0.2500	0.2562	
46 Benzyl alcohol	108	5.759	5.759	0.000	92	8474	0.2500	0.2459	
47 1,2-Dichlorobenzene	146	5.764	5.764	0.000	95	18904	0.2500	0.2557	
48 Indene	115	5.844	5.844	0.000	89	156158	1.25	1.43	
49 2-Methylphenol	108	5.866	5.866	0.000	96	14632	0.2500	0.2324	
50 2,2'-oxybis[1-chloropropan	45	5.876	5.876	0.000	93	28423	0.2500	0.2584	
53 Acetophenone	105	5.983	5.983	0.000	96	21434	0.2500	0.2360	
55 N-Nitrosodi-n-propylamine	70	5.994	5.994	0.000	91	10958	0.2500	0.2326	
56 4-Methylphenol	108	6.005	6.004	0.001	95	15386	0.2500	0.2387	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.058	6.058	0.000	95	7831	0.2500	0.2530	
61 Nitrobenzene	77	6.127	6.127	0.000	91	14479	0.2500	0.2435	
63 Isophorone	82	6.336	6.336	0.000	99	27140	0.2500	0.2266	
67 2-Nitrophenol	139	6.400	6.400	0.000	95	5765	0.2500	0.3129	
68 2,4-Dimethylphenol	107	6.453	6.453	0.000	95	13772	0.2500	0.2267	
71 Bis(2-chloroethoxy)methane	93	6.528	6.528	0.000	97	19009	0.2500	0.2437	
74 2,4-Dichlorophenol	162	6.608	6.608	0.000	94	11170	0.2500	0.2460	
72 Benzoic acid	105	6.517	6.619	-0.102	0	9098	1.25	3.67	M
75 1,2,4-Trichlorobenzene	180	6.672	6.678	-0.006	93	16163	0.2500	0.2537	
76 Naphthalene	128	6.736	6.736	0.000	95	51824	0.2500	0.2704	
78 4-Chloroaniline	127	6.790	6.790	0.000	94	17113	0.2500	0.2287	
79 2,6-Dichlorophenol	162	6.795	6.800	-0.005	93	12011	0.2500	0.2258	
81 Hexachlorobutadiene	225	6.854	6.854	0.000	96	9373	0.2500	0.2550	
84 Caprolactam	113	7.057	7.110	-0.053	77	6293	0.5000	0.5393	
87 4-Chloro-3-methylphenol	107	7.207	7.212	-0.005	97	10149	0.2500	0.2408	
89 2-Methylnaphthalene	142	7.313	7.319	-0.006	91	32170	0.2500	0.2501	
91 1-Methylnaphthalene	142	7.399	7.399	0.000	95	32216	0.2500	0.2593	
93 Hexachlorocyclopentadiene	237	7.452	7.458	-0.006	94	7198	0.2500	0.2785	
92 1,2,4,5-Tetrachlorobenzene	216	7.458	7.458	0.000	96	14372	0.2500	0.2425	
94 2,4,6-Trichlorophenol	196	7.554	7.559	-0.005	93	6461	0.2500	0.2802	
95 2,4,5-Trichlorophenol	196	7.586	7.591	-0.005	92	7337	0.2500	0.2597	
97 1,1'-Biphenyl	154	7.703	7.703	0.000	95	37466	0.2500	0.2466	
98 2-Chloronaphthalene	162	7.714	7.719	-0.005	96	29791	0.2500	0.2517	
100 2-Nitroaniline	65	7.805	7.805	0.000	83	5424	0.2500	0.2818	
104 Dimethyl phthalate	163	7.954	7.960	-0.006	99	30609	0.2500	0.2467	
105 1,3-Dinitrobenzene	168	7.976	7.981	-0.005	82	2297	0.2500	0.3197	
106 2,6-Dinitrotoluene	165	8.003	8.002	0.000	92	4562	0.2500	0.2929	
107 Acenaphthylene	152	8.056	8.056	0.000	98	39535	0.2500	0.2436	
108 3-Nitroaniline	138	8.136	8.141	-0.005	89	4296	0.2500	0.2850	
109 Acenaphthene	153	8.200	8.200	0.000	94	31858	0.2500	0.2590	
110 2,4-Dinitrophenol	184	8.227	8.227	0.000	84	1834	0.5000	1.60	
111 4-Nitrophenol	109	8.291	8.296	-0.005	94	3042	0.5000	0.5615	
113 2,4-Dinitrotoluene	165	8.328	8.334	-0.006	92	5080	0.2500	0.3130	
114 Dibenzofuran	168	8.339	8.344	-0.005	95	40729	0.2500	0.2576	
117 2,3,4,6-Tetrachlorophenol	232	8.446	8.451	-0.005	73	4842	0.2500	0.3002	
119 Diethyl phthalate	149	8.531	8.537	-0.006	98	28893	0.2500	0.2379	
120 Hexadecane	57	8.553	8.553	0.000	90	23061	0.2500	0.2486	
122 4-Chlorophenyl phenyl ethe	204	8.622	8.622	0.000	90	16366	0.2500	0.2510	
123 Fluorene	166	8.617	8.622	-0.005	93	31898	0.2500	0.2486	
125 4-Nitroaniline	138	8.633	8.644	-0.011	77	4761	0.2500	0.2573	M
126 4,6-Dinitro-2-methylphenol	198	8.660	8.670	-0.010	80	3396	0.5000	0.2143	
129 N-Nitrosodiphenylamine	169	8.718	8.724	-0.006	62	20976	0.2500	0.2351	
128 Diphenylamine	169	8.718	8.724	-0.006	95	20976	0.2138	0.2010	
130 1,2-Diphenylhydrazine	77	8.750	8.750	0.000	98	29321	0.2500	0.2337	
131 Azobenzene	77	8.750	8.750	0.000	98	29321	0.2500	0.2363	
137 4-Bromophenyl phenyl ether	248	9.018	9.023	-0.005	72	8427	0.2500	0.2357	
138 Hexachlorobenzene	284	9.076	9.076	0.000	93	9519	0.2500	0.2398	
141 Atrazine	200	9.156	9.162	-0.006	94	14210	0.5000	0.4861	
143 Pentachlorophenol	266	9.237	9.237	0.000	92	4207	0.5000	0.6350	M
146 n-Octadecane	57	9.306	9.306	0.000	92	20957	0.2500	0.2370	
149 Phenanthrene	178	9.402	9.407	-0.005	96	48888	0.2500	0.2619	
150 Anthracene	178	9.445	9.445	0.000	97	44984	0.2500	0.2446	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	9.578	9.578	0.000	96	35174	0.2500	0.2543	
154 Di-n-butyl phthalate	149	9.867	9.867	0.000	99	39035	0.2500	0.2182	
161 Fluoranthene	202	10.374	10.374	0.000	98	42241	0.2500	0.2431	M
164 Benzidine	184	10.481	10.487	-0.006	99	10766	0.2500	0.2053	
165 Pyrene	202	10.556	10.561	-0.005	97	45052	0.2500	0.2489	M
172 Butyl benzyl phthalate	149	11.090	11.096	-0.006	98	13604	0.2500	0.2634	M
177 3,3'-Dichlorobenzidine	252	11.576	11.576	0.000	74	10381	0.2500	0.2575	
179 Benzo[a]anthracene	228	11.598	11.598	0.000	98	40596	0.2500	0.2301	
180 Bis(2-ethylhexyl) phthalat	149	11.630	11.630	0.000	68	19741	0.2500	0.2575	
181 Chrysene	228	11.630	11.635	-0.005	97	44316	0.2500	0.2535	
184 Di-n-octyl phthalate	149	12.314	12.319	-0.005	99	25455	0.2500	0.2754	
186 Benzo[b]fluoranthene	252	12.752	12.757	-0.005	98	33440	0.2500	0.2358	
187 Benzo[k]fluoranthene	252	12.778	12.789	-0.011	98	40664	0.2500	0.2522	M
189 Benzo[a]pyrene	252	13.136	13.147	-0.011	78	29532	0.2500	0.2390	
193 Indeno[1,2,3-cd]pyrene	276	14.557	14.568	-0.011	98	38771	0.2500	0.2460	M
194 Dibenz(a,h)anthracene	278	14.584	14.595	-0.011	88	35865	0.2500	0.2518	
195 Benzo[g,h,i]perylene	276	14.899	14.910	-0.011	97	36178	0.2500	0.2436	
S 258 3-Methylphenol	1				0			0.2387	
S 262 Total Cresols	1				0			0.4712	
S 257 3 & 4 Methylphenol	108				0			0.2387	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00262	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00133	Amount Added: 20.00	Units: uL	Run Reagent

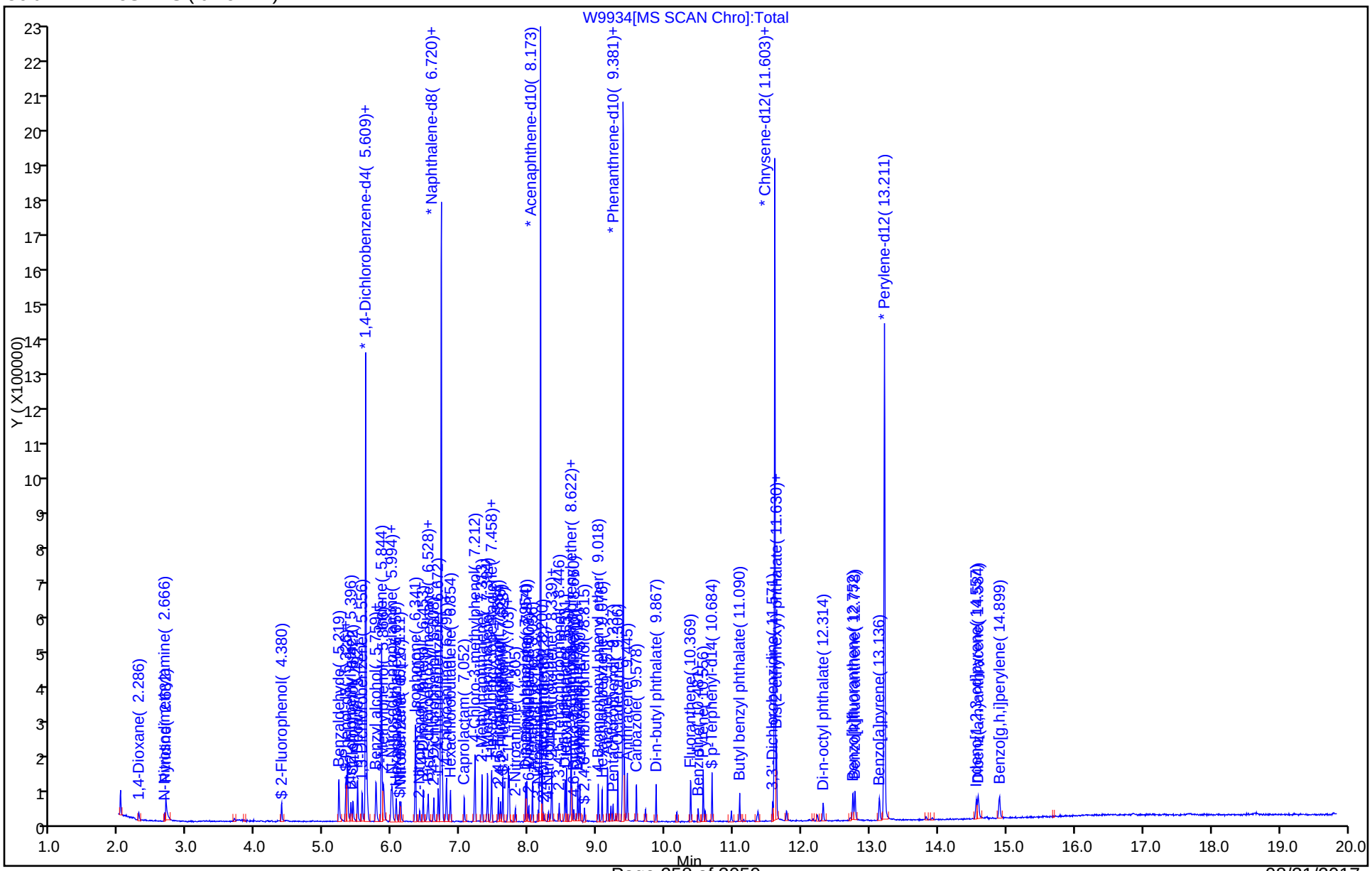
Report Date: 15-Aug-2017 18:11:27 Chrom Revision: 2.2 08-Aug-2017 17:51:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D

Injection Date:	14-Aug-2017 19:45:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 .25			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

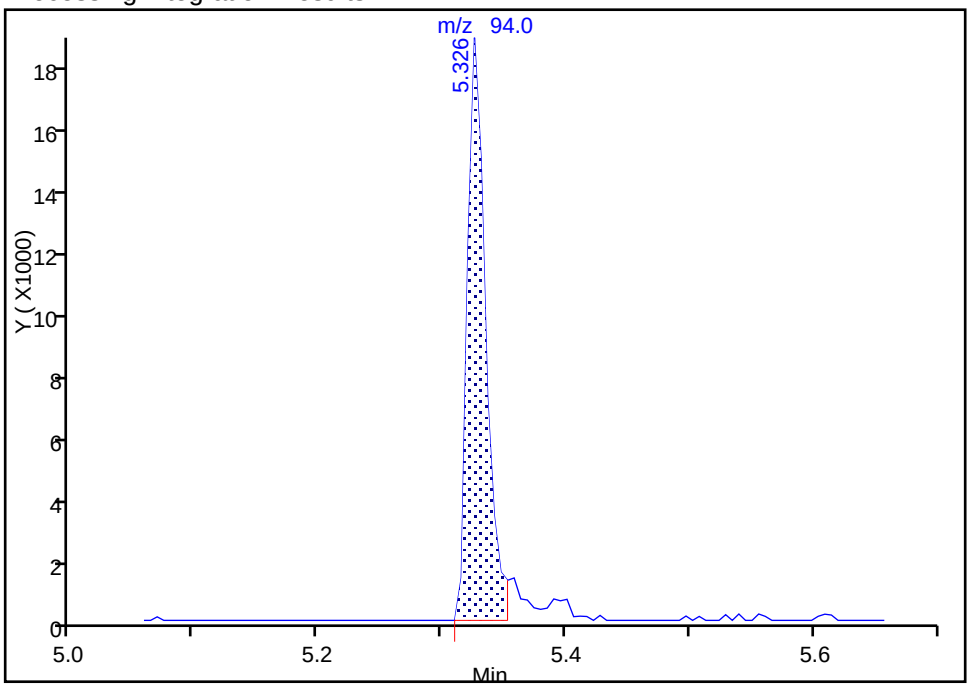
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D
Injection Date: 14-Aug-2017 19:45:30 Instrument ID: HP5973W
Lims ID: IC L1 .25
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

37 Phenol, CAS: 108-95-2

Signal: 1

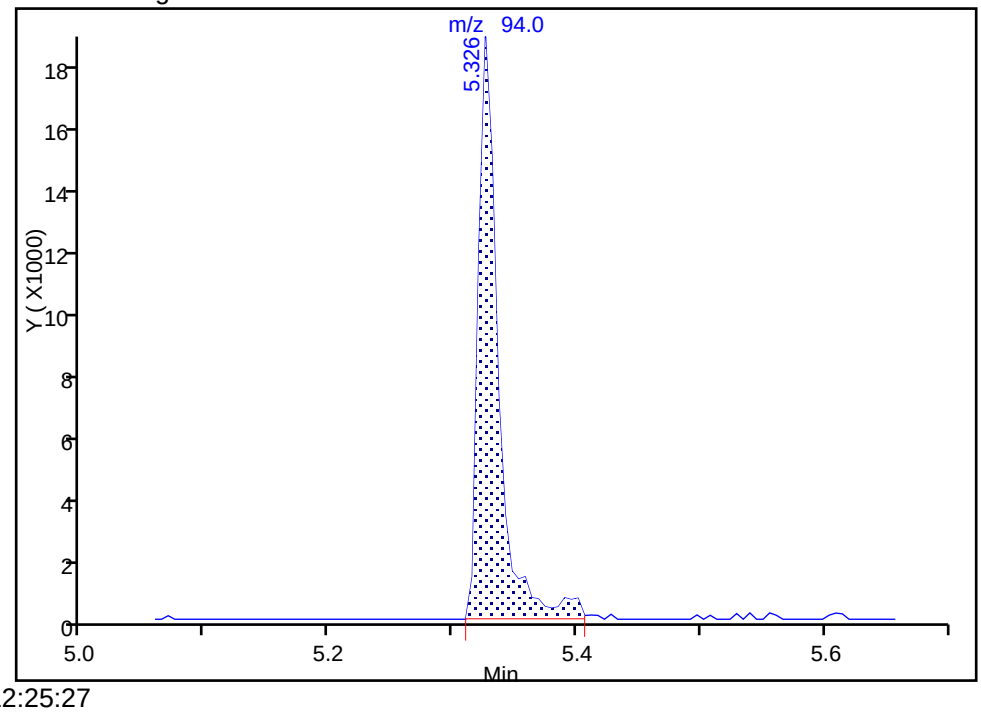
Processing Integration Results

RT: 5.33
Area: 19360
Amount: 0.218716
Amount Units: ng/uL



Manual Integration Results

RT: 5.33
Area: 21202
Amount: 0.236711
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:25:27
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

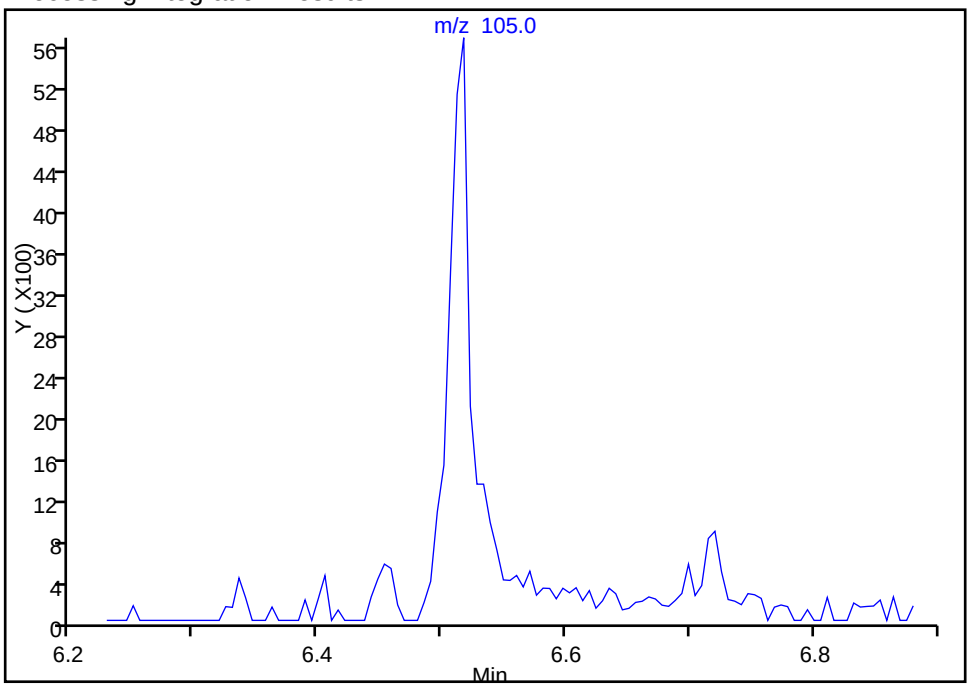
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D
Injection Date: 14-Aug-2017 19:45:30 Instrument ID: HP5973W
Lims ID: IC L1 .25
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

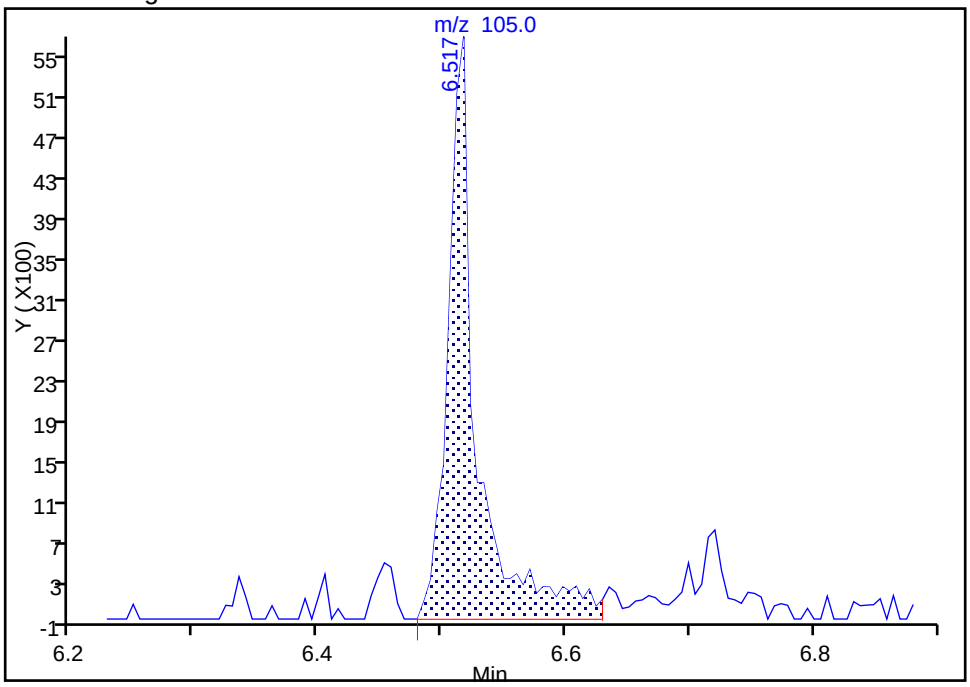
Not Detected
Expected RT: 6.62

Processing Integration Results



Manual Integration Results

RT: 6.52
Area: 9098
Amount: 3.674086
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:03:41
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

TestAmerica Buffalo

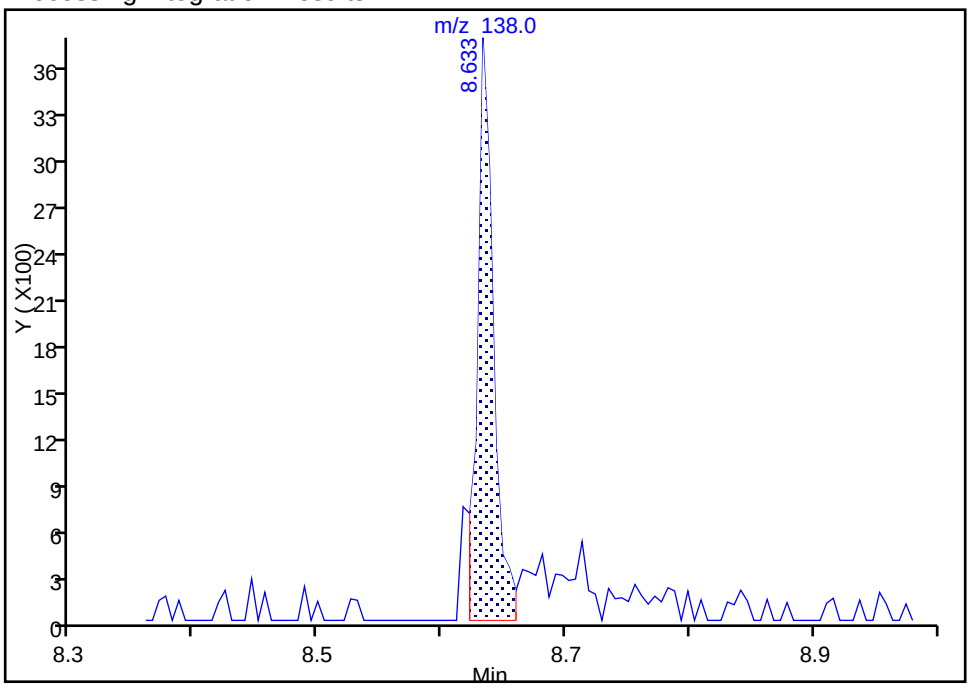
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D
Injection Date: 14-Aug-2017 19:45:30 Instrument ID: HP5973W
Lims ID: IC L1 .25
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

125 4-Nitroaniline, CAS: 100-01-6

Signal: 1

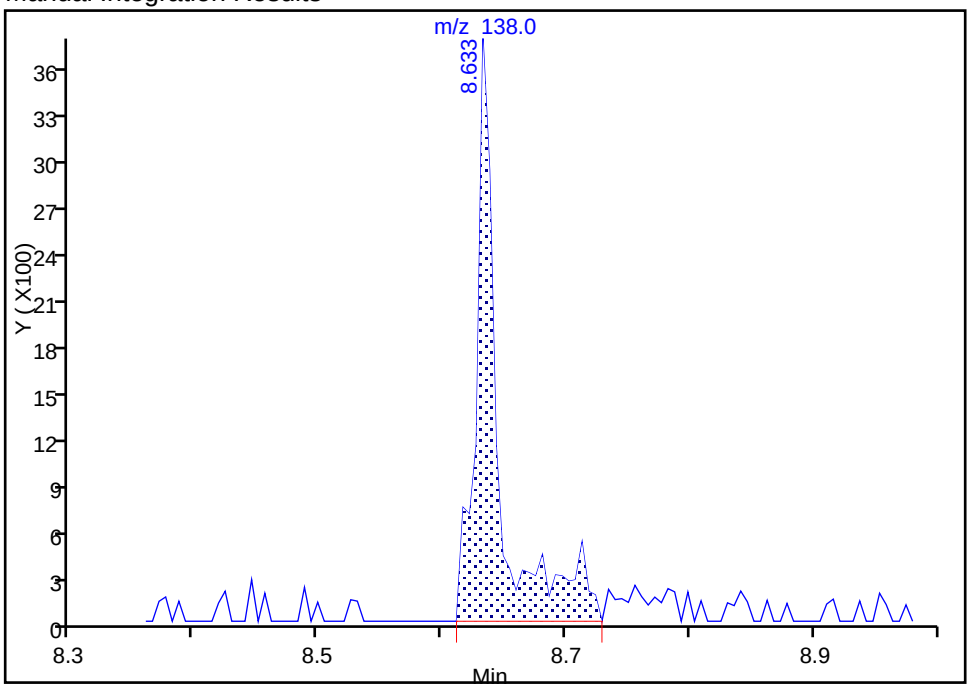
Processing Integration Results

RT: 8.63
Area: 3404
Amount: 0.156711
Amount Units: ng/uL



Manual Integration Results

RT: 8.63
Area: 4761
Amount: 0.257284
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:26:17
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

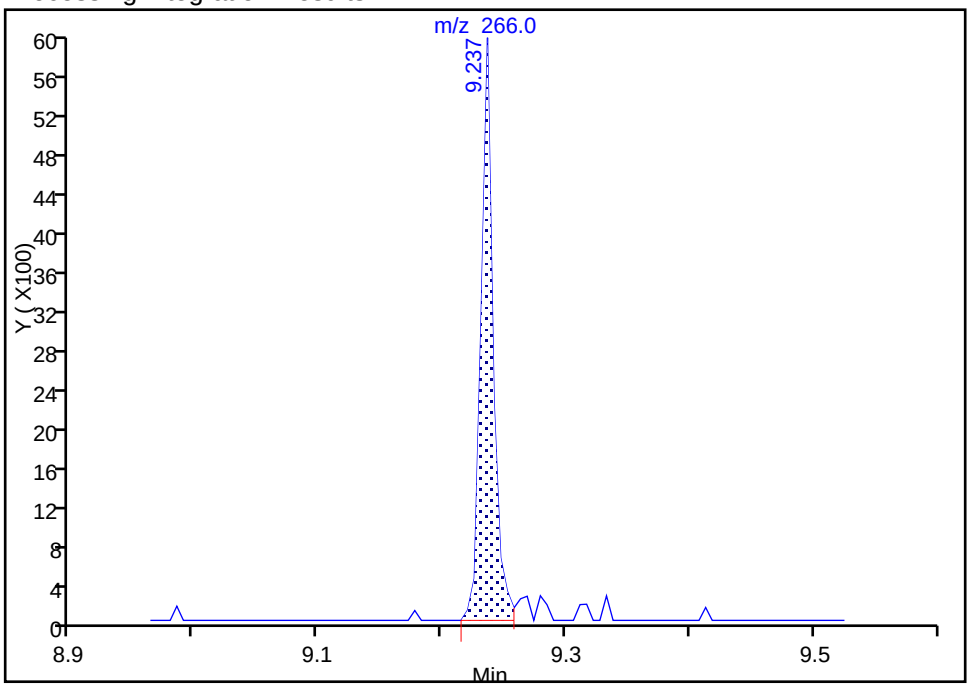
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D
Injection Date: 14-Aug-2017 19:45:30 Instrument ID: HP5973W
Lims ID: IC L1 .25
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

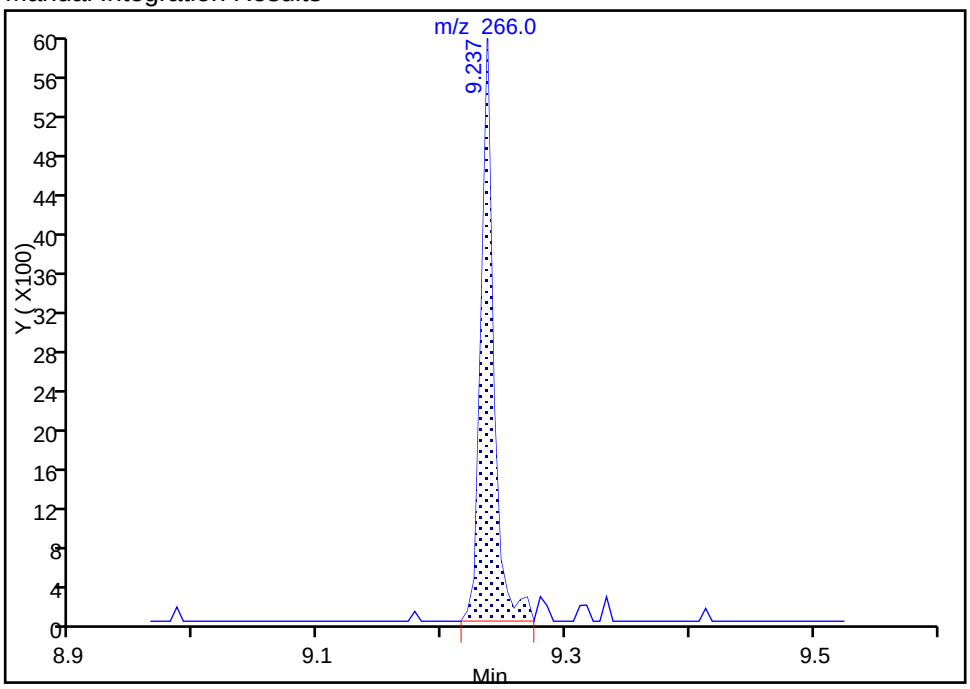
Processing Integration Results

RT: 9.24
Area: 4065
Amount: 0.595966
Amount Units: ng/uL



Manual Integration Results

RT: 9.24
Area: 4207
Amount: 0.635049
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:49:54
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

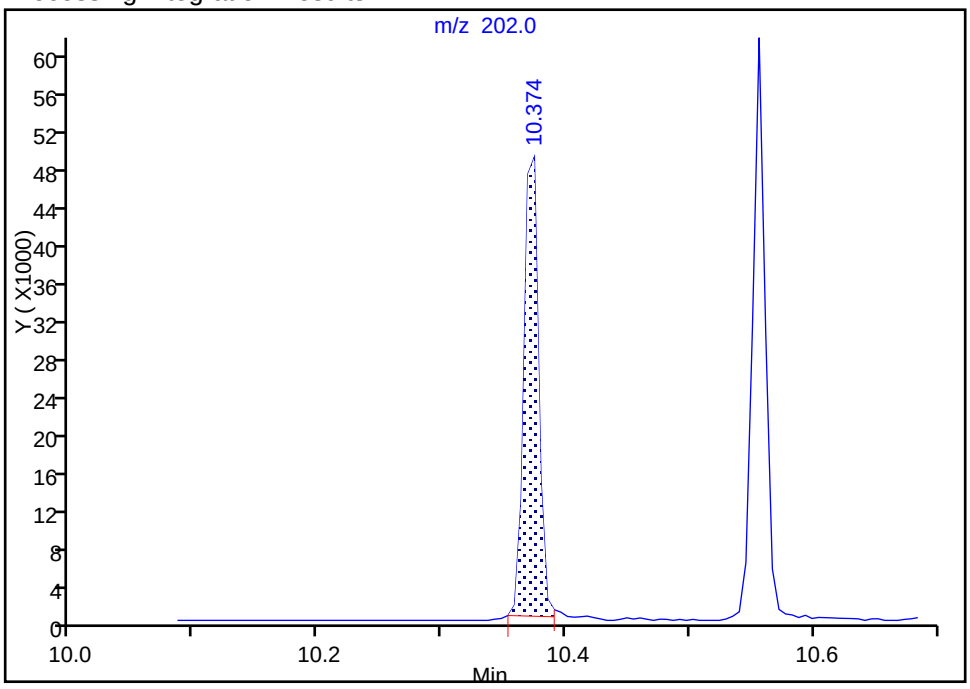
Data File:	\\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D				
Injection Date:	14-Aug-2017 19:45:30	Instrument ID:	HP5973W		
Lims ID:	IC L1 .25				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

161 Fluoranthene, CAS: 206-44-0

Signal: 1

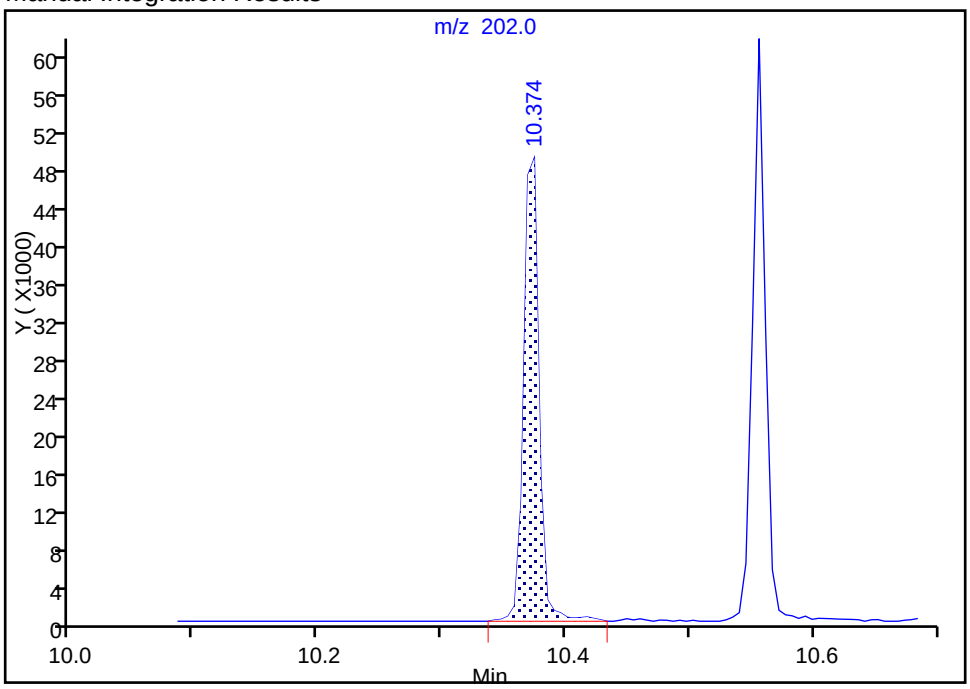
Processing Integration Results

RT: 10.37
Area: 40061
Amount: 0.234945
Amount Units: ng/uL



Manual Integration Results

RT: 10.37
Area: 42241
Amount: 0.243120
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:03:12

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

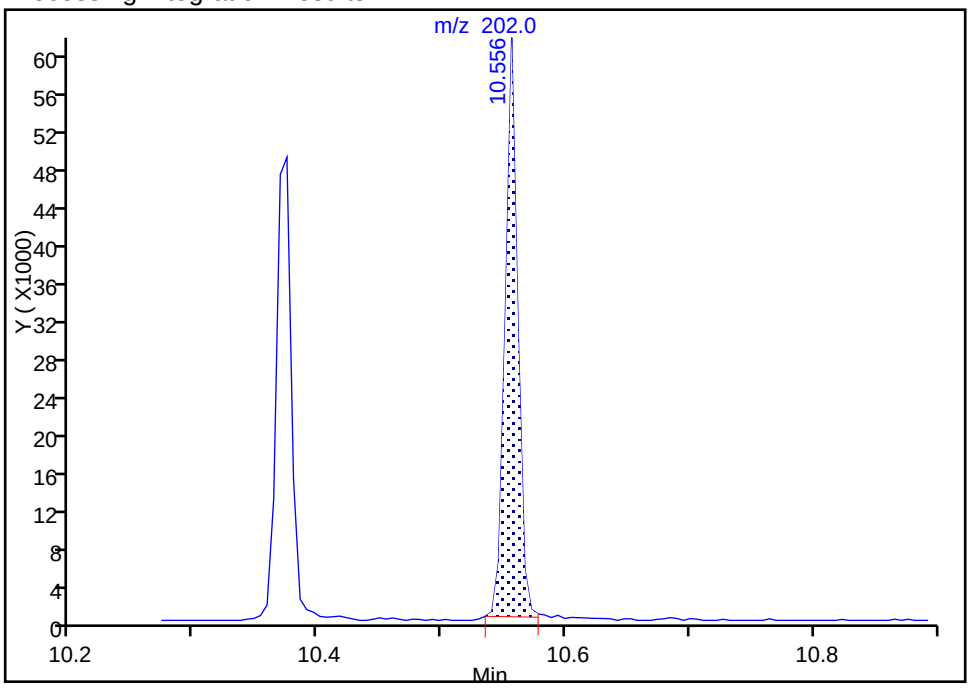
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D
Injection Date: 14-Aug-2017 19:45:30 Instrument ID: HP5973W
Lims ID: IC L1 .25
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

165 Pyrene, CAS: 129-00-0

Signal: 1

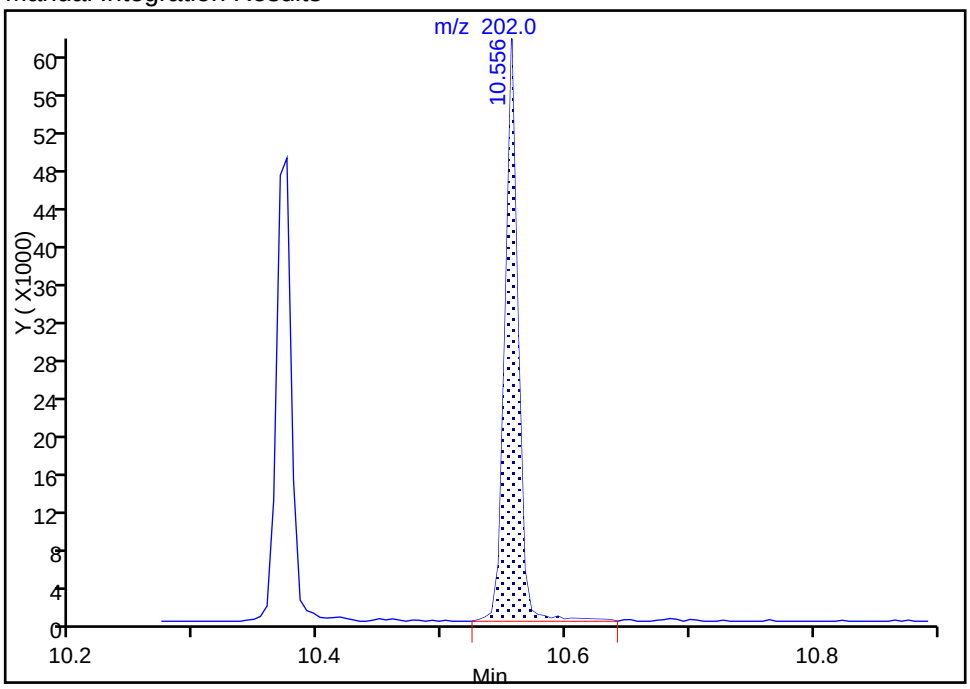
Processing Integration Results

RT: 10.56
Area: 42867
Amount: 0.237908
Amount Units: ng/uL



Manual Integration Results

RT: 10.56
Area: 45052
Amount: 0.248902
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:03:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

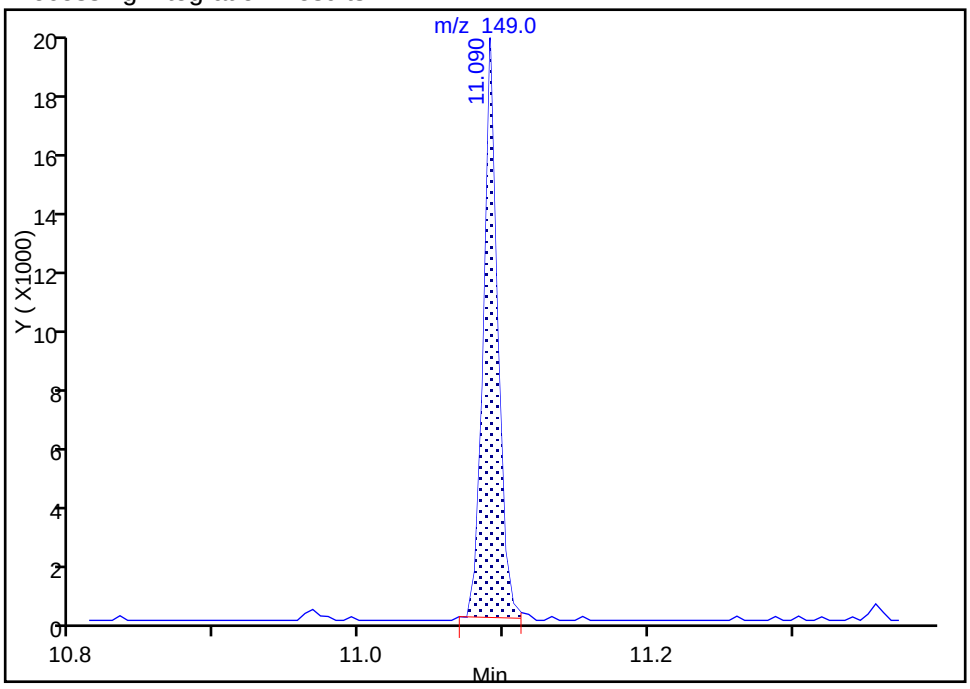
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D
Injection Date: 14-Aug-2017 19:45:30 Instrument ID: HP5973W
Lims ID: IC L1 .25
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

172 Butyl benzyl phthalate, CAS: 85-68-7

Signal: 1

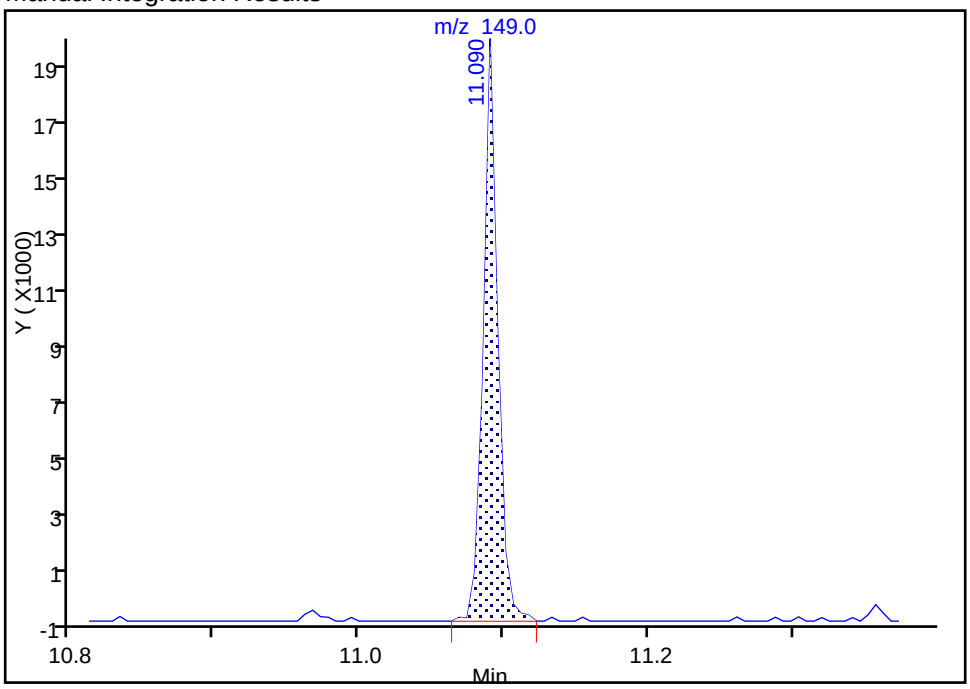
Processing Integration Results

RT: 11.09
Area: 13237
Amount: 0.174518
Amount Units: ng/uL



Manual Integration Results

RT: 11.09
Area: 13604
Amount: 0.263433
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:32:25
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

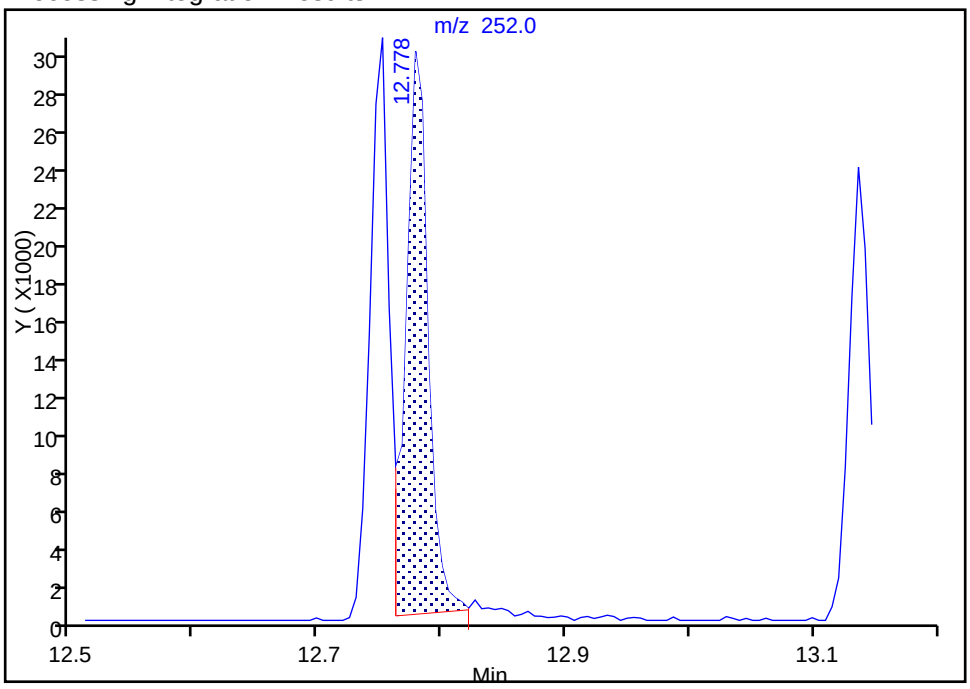
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D
Injection Date: 14-Aug-2017 19:45:30 Instrument ID: HP5973W
Lims ID: IC L1 .25
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

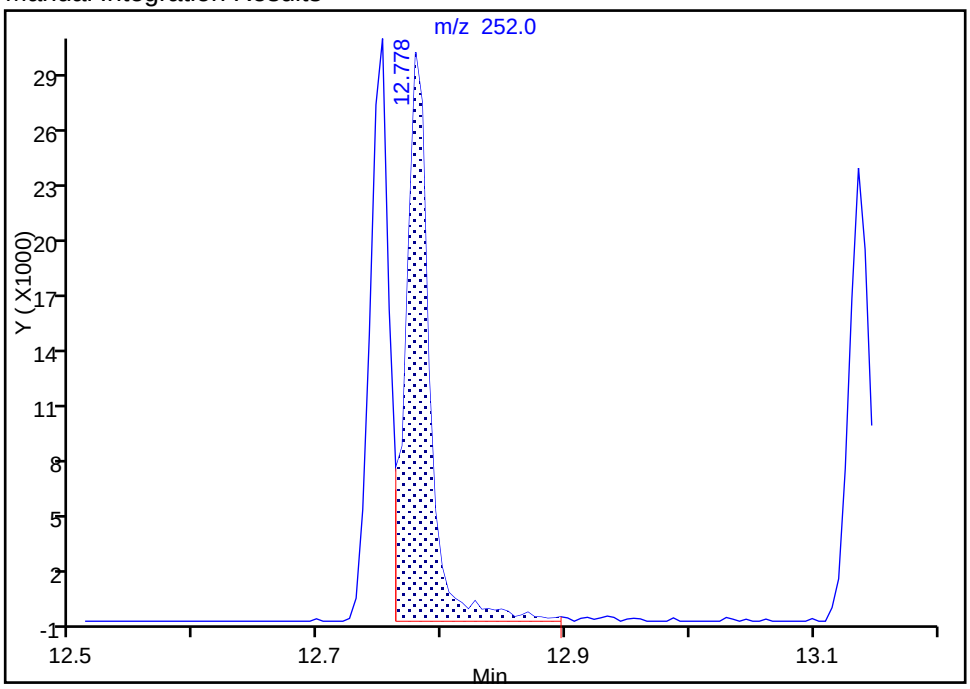
Processing Integration Results

RT: 12.78
Area: 37198
Amount: 0.241324
Amount Units: ng/uL



Manual Integration Results

RT: 12.78
Area: 40664
Amount: 0.252162
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:02:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

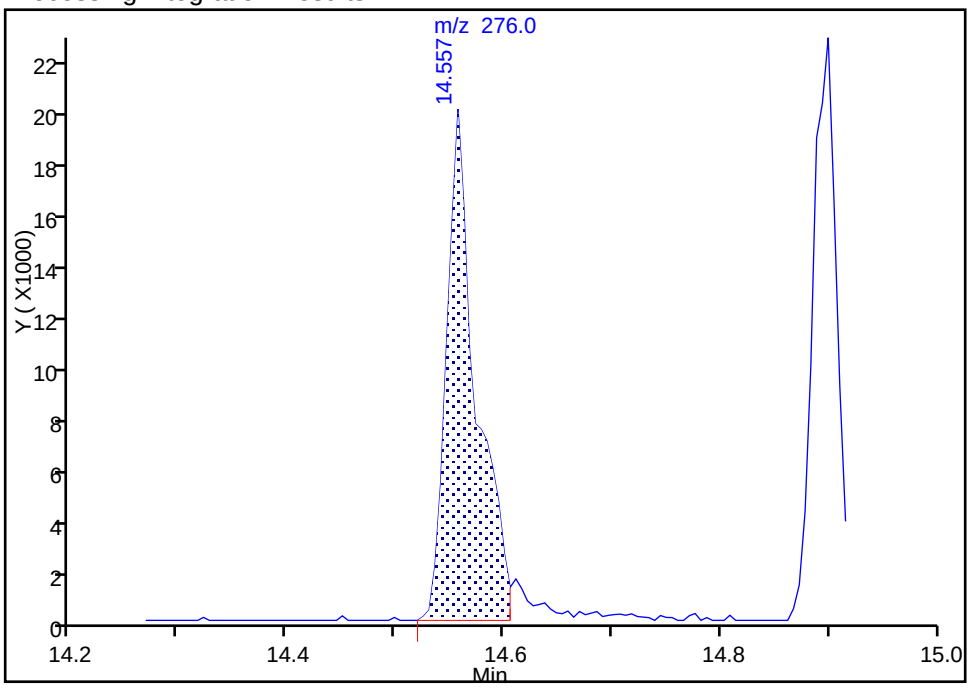
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9934.D
Injection Date: 14-Aug-2017 19:45:30 Instrument ID: HP5973W
Lims ID: IC L1 .25
Client ID:
Operator ID: PJQ ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

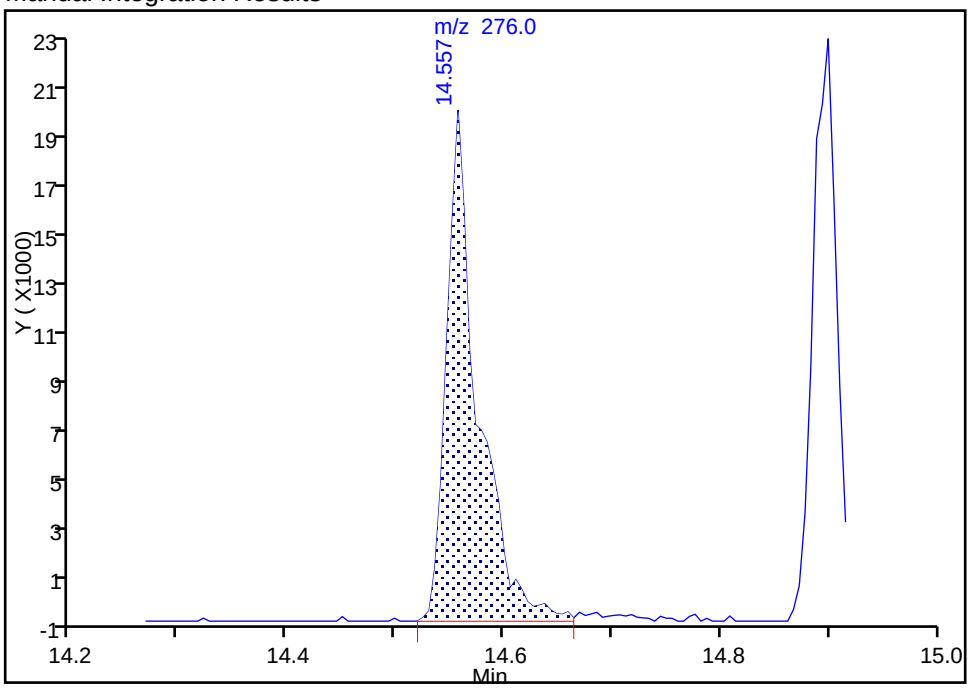
Processing Integration Results

RT: 14.56
Area: 36568
Amount: 0.206644
Amount Units: ng/uL



Manual Integration Results

RT: 14.56
Area: 38771
Amount: 0.246036
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:32:01
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9935.D
Lims ID: IC L1 1.0
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 14-Aug-2017 20:14:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064854-005
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 15-Aug-2017 18:11:30 Calib Date: 14-Aug-2017 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: quirkp Date: 15-Aug-2017 12:26:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.609	5.609	0.000	97	199308	4.00	4.00	
* 2 Naphthalene-d8	136	6.720	6.720	0.000	100	800080	4.00	4.00	
* 3 Acenaphthene-d10	164	8.173	8.173	0.000	97	384264	4.00	4.00	
* 4 Phenanthrene-d10	188	9.386	9.386	0.000	97	679752	4.00	4.00	
* 5 Chrysene-d12	240	11.609	11.608	0.001	97	701003	4.00	4.00	M
* 6 Perylene-d12	264	13.211	13.217	-0.005	98	608431	4.00	4.00	
$ 7 2-Fluorophenol	112	4.375	4.375	0.000	93	63789	1.00	0.9845	
$ 8 Phenol-d5	99	5.315	5.315	0.000	94	81454	1.00	1.01	
$ 9 Nitrobenzene-d5	82	6.106	6.111	-0.005	92	62556	1.00	0.9414	
$ 10 2-Fluorobiphenyl	172	7.623	7.623	0.000	100	143731	1.00	1.00	
$ 11 2,4,6-Tribromophenol	330	8.820	8.820	0.000	94	16744	1.00	0.9313	
$ 12 p-Terphenyl-d14	244	10.684	10.690	-0.006	99	143039	1.00	0.9580	
14 1,4-Dioxane	88	2.281	2.276	0.005	99	31960	1.00	1.01	
16 Pyridine	52	2.655	2.650	0.005	90	122070	2.00	2.03	
15 N-Nitrosodimethylamine	42	2.650	2.650	0.000	90	41252	1.00	1.05	
36 Benzaldehyde	77	5.214	5.214	0.000	93	116535	2.00	2.12	
38 Aniline	93	5.321	5.326	-0.005	93	106976	1.00	1.01	
37 Phenol	94	5.326	5.326	0.000	93	94857	1.00	1.01	
40 Bis(2-chloroethyl)ether	93	5.390	5.390	0.000	95	77274	1.00	1.04	
41 2-Chlorophenol	128	5.422	5.428	-0.006	97	69003	1.00	0.9893	
43 n-Decane	57	5.492	5.492	0.000	92	98578	1.00	1.03	
44 1,3-Dichlorobenzene	146	5.556	5.561	-0.005	97	80890	1.00	1.01	
45 1,4-Dichlorobenzene	146	5.625	5.625	0.000	96	84124	1.00	1.03	
46 Benzyl alcohol	108	5.753	5.759	-0.006	91	42099	1.00	0.9776	
47 1,2-Dichlorobenzene	146	5.764	5.764	0.000	96	78842	1.00	1.02	
48 Indene	115	5.844	5.844	0.000	89	654704	5.00	5.68	
49 2-Methylphenol	108	5.866	5.866	0.000	91	64871	1.00	0.9869	
50 2,2'-oxybis[1-chloropropan	45	5.876	5.876	0.000	93	119105	1.00	1.04	
53 Acetophenone	105	5.983	5.983	0.000	96	94729	1.00	1.00	
55 N-Nitrosodi-n-propylamine	70	5.994	5.994	0.000	90	50135	1.00	1.02	
56 4-Methylphenol	108	6.005	6.004	0.001	93	65492	1.00	0.9731	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.058	6.058	0.000	95	31602	1.00	0.9778	
61 Nitrobenzene	77	6.122	6.127	-0.005	91	66682	1.00	0.9838	
63 Isophorone	82	6.336	6.336	0.000	99	128305	1.00	1.02	
67 2-Nitrophenol	139	6.400	6.400	0.000	96	26594	1.00	0.8776	
68 2,4-Dimethylphenol	107	6.453	6.453	0.000	96	69001	1.00	1.04	
71 Bis(2-chloroethoxy)methane	93	6.528	6.528	0.000	99	86802	1.00	1.06	
74 2,4-Dichlorophenol	162	6.608	6.608	0.000	94	56117	1.00	1.02	
72 Benzoic acid	105	6.549	6.619	-0.070	94	93258	5.00	5.49	M
75 1,2,4-Trichlorobenzene	180	6.672	6.678	-0.006	94	67507	1.00	1.00	
76 Naphthalene	128	6.736	6.736	0.000	98	206351	1.00	1.02	
78 4-Chloroaniline	127	6.790	6.790	0.000	97	79615	1.00	1.01	
79 2,6-Dichlorophenol	162	6.795	6.800	-0.005	91	55433	1.00	0.9885	
81 Hexachlorobutadiene	225	6.854	6.854	0.000	95	39846	1.00	1.03	
84 Caprolactam	113	7.068	7.110	-0.042	77	35642	2.00	1.90	
87 4-Chloro-3-methylphenol	107	7.207	7.212	-0.005	97	52294	1.00	0.9845	
89 2-Methylnaphthalene	142	7.313	7.319	-0.006	94	139864	1.00	1.03	
91 1-Methylnaphthalene	142	7.399	7.399	0.000	94	134221	1.00	1.02	
92 1,2,4,5-Tetrachlorobenzene	216	7.458	7.458	0.000	97	62437	1.00	0.9840	
93 Hexachlorocyclopentadiene	237	7.452	7.458	-0.006	95	38729	1.00	0.9597	
94 2,4,6-Trichlorophenol	196	7.554	7.559	-0.005	90	34961	1.00	0.9584	
95 2,4,5-Trichlorophenol	196	7.586	7.591	-0.005	93	34250	1.00	0.9139	
97 1,1'-Biphenyl	154	7.703	7.703	0.000	95	163681	1.00	1.01	
98 2-Chloronaphthalene	162	7.714	7.719	-0.005	97	127584	1.00	1.01	
100 2-Nitroaniline	65	7.805	7.805	0.000	85	29007	1.00	0.9359	
104 Dimethyl phthalate	163	7.954	7.960	-0.006	99	134653	1.00	1.01	
105 1,3-Dinitrobenzene	168	7.976	7.981	-0.005	84	13987	1.00	0.8557	
106 2,6-Dinitrotoluene	165	8.003	8.002	0.001	96	24646	1.00	0.9042	
107 Acenaphthylene	152	8.056	8.056	0.000	98	178018	1.00	1.02	
108 3-Nitroaniline	138	8.141	8.141	0.000	94	26293	1.00	0.9446	
109 Acenaphthene	153	8.200	8.200	0.000	94	133448	1.00	1.01	
110 2,4-Dinitrophenol	184	8.222	8.227	-0.005	82	16541	2.00	2.36	
111 4-Nitrophenol	109	8.286	8.296	-0.010	96	24862	2.00	1.82	
113 2,4-Dinitrotoluene	165	8.328	8.334	-0.006	92	30263	1.00	0.8923	
114 Dibenzofuran	168	8.339	8.344	-0.005	96	174140	1.00	1.03	
117 2,3,4,6-Tetrachlorophenol	232	8.446	8.451	-0.005	72	27155	1.00	0.9367	
119 Diethyl phthalate	149	8.531	8.537	-0.006	98	130615	1.00	1.00	
120 Hexadecane	57	8.553	8.553	0.000	91	104169	1.00	1.05	
123 Fluorene	166	8.617	8.622	-0.005	94	137882	1.00	1.00	
122 4-Chlorophenyl phenyl ethe	204	8.622	8.622	0.000	89	70823	1.00	1.01	
125 4-Nitroaniline	138	8.638	8.644	-0.006	87	30027	1.00	0.9881	M
126 4,6-Dinitro-2-methylphenol	198	8.665	8.670	-0.005	84	23999	2.00	1.41	
128 Diphenylamine	169	8.718	8.724	-0.006	96	97155	0.8550	0.8692	
129 N-Nitrosodiphenylamine	169	8.718	8.724	-0.006	61	97155	1.00	1.02	
131 Azobenzene	77	8.750	8.750	0.000	99	145368	1.00	1.09	
130 1,2-Diphenylhydrazine	77	8.750	8.750	0.000	98	145368	1.00	1.08	
137 4-Bromophenyl phenyl ether	248	9.018	9.023	-0.005	68	37310	1.00	0.9745	
138 Hexachlorobenzene	284	9.076	9.076	0.000	95	41495	1.00	0.9761	
141 Atrazine	200	9.156	9.162	-0.006	93	71976	2.00	2.00	
143 Pentachlorophenol	266	9.237	9.237	0.000	90	30386	2.00	1.75	M
146 n-Octadecane	57	9.306	9.306	0.000	93	98069	1.00	1.04	
149 Phenanthrene	178	9.402	9.407	-0.005	97	209637	1.00	1.05	
150 Anthracene	178	9.445	9.445	0.000	97	202330	1.00	1.03	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	9.579	9.578	0.000	96	161167	1.00	1.09	
154 Di-n-butyl phthalate	149	9.867	9.867	0.000	100	205384	1.00	1.03	
161 Fluoranthene	202	10.375	10.374	0.000	98	199707	1.00	1.01	
164 Benzidine	184	10.481	10.487	-0.006	99	45443	1.00	0.7522	
165 Pyrene	202	10.556	10.561	-0.005	97	204659	1.00	0.9816	M
172 Butyl benzyl phthalate	149	11.090	11.096	-0.006	98	81474	1.00	0.9536	M
177 3,3'-Dichlorobenzidine	252	11.577	11.576	0.000	74	41036	1.00	0.8838	
179 Benzo[a]anthracene	228	11.598	11.598	0.000	97	204251	1.00	1.01	
180 Bis(2-ethylhexyl) phthalat	149	11.630	11.630	0.000	78	120371	1.00	0.9466	
181 Chrysene	228	11.630	11.635	-0.005	97	197220	1.00	0.9794	
184 Di-n-octyl phthalate	149	12.314	12.319	-0.005	99	177590	1.00	0.9036	
186 Benzo[b]fluoranthene	252	12.752	12.757	-0.005	97	180923	1.00	0.9880	
187 Benzo[k]fluoranthene	252	12.779	12.789	-0.011	99	187702	1.00	1.01	M
189 Benzo[a]pyrene	252	13.136	13.147	-0.011	77	159850	1.00	0.9496	
193 Indeno[1,2,3-cd]pyrene	276	14.557	14.568	-0.011	98	196267	1.00	0.9234	M
194 Dibenz(a,h)anthracene	278	14.590	14.595	-0.005	89	172409	1.00	0.9356	
195 Benzo[g,h,i]perylene	276	14.899	14.910	-0.011	98	175983	1.00	0.9526	
S 257 3 & 4 Methylphenol	108				0			0.9731	
S 258 3-Methylphenol	1				0			0.9731	
S 262 Total Cresols	1				0			1.96	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00264	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00133	Amount Added: 20.00	Units: uL	Run Reagent

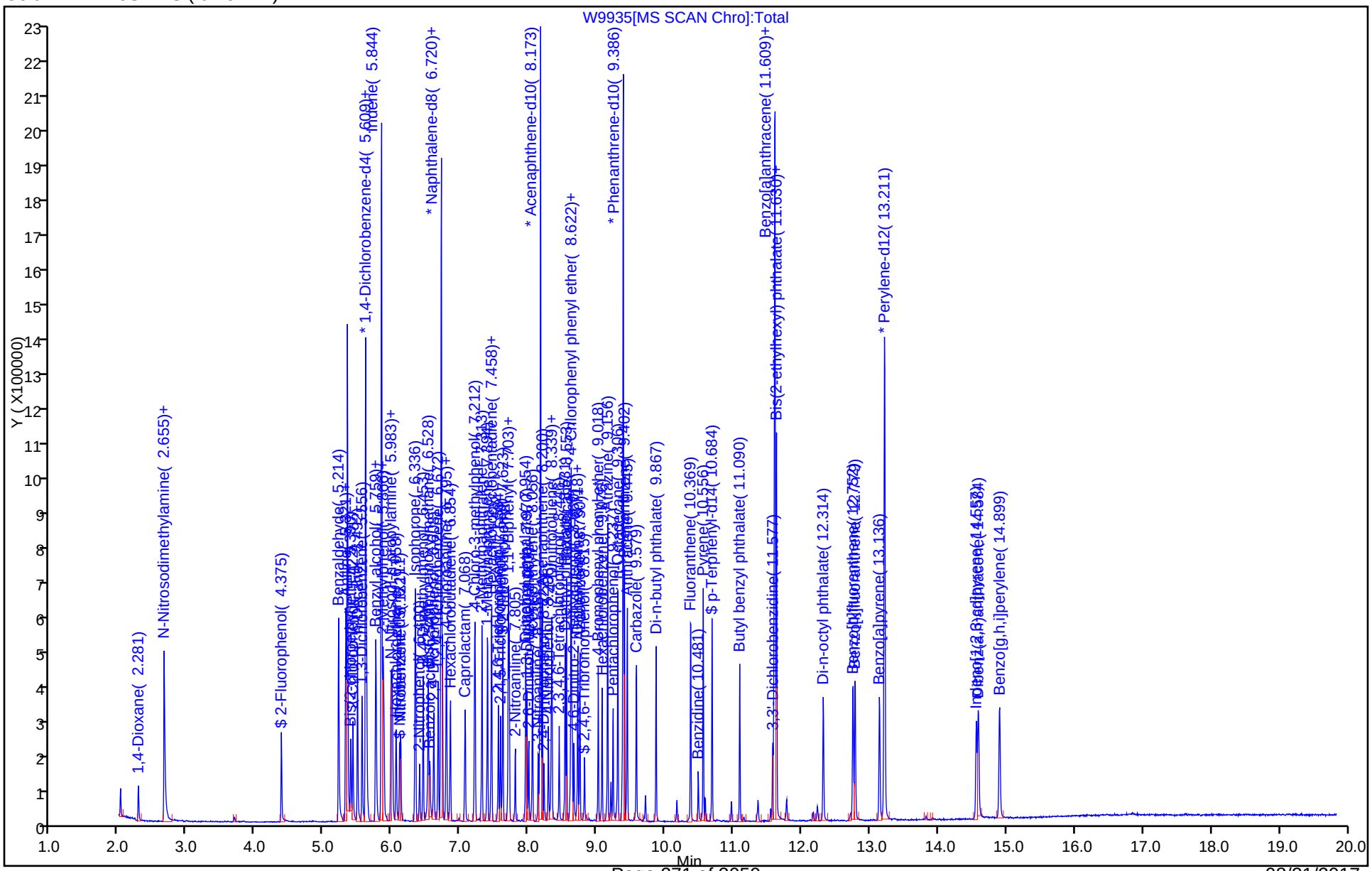
Report Date: 15-Aug-2017 18:11:31 Chrom Revision: 2.2 08-Aug-2017 17:51:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9935.D

Injection Date:	14-Aug-2017 20:14:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 1.0			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

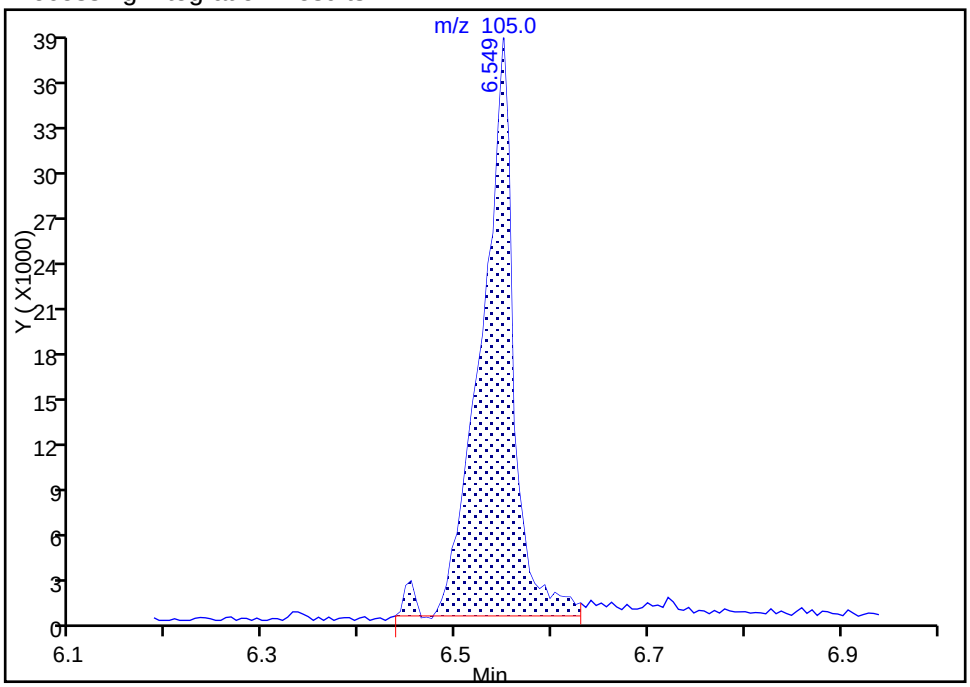
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9935.D
Injection Date: 14-Aug-2017 20:14:30 Instrument ID: HP5973W
Lims ID: IC L1 1.0
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

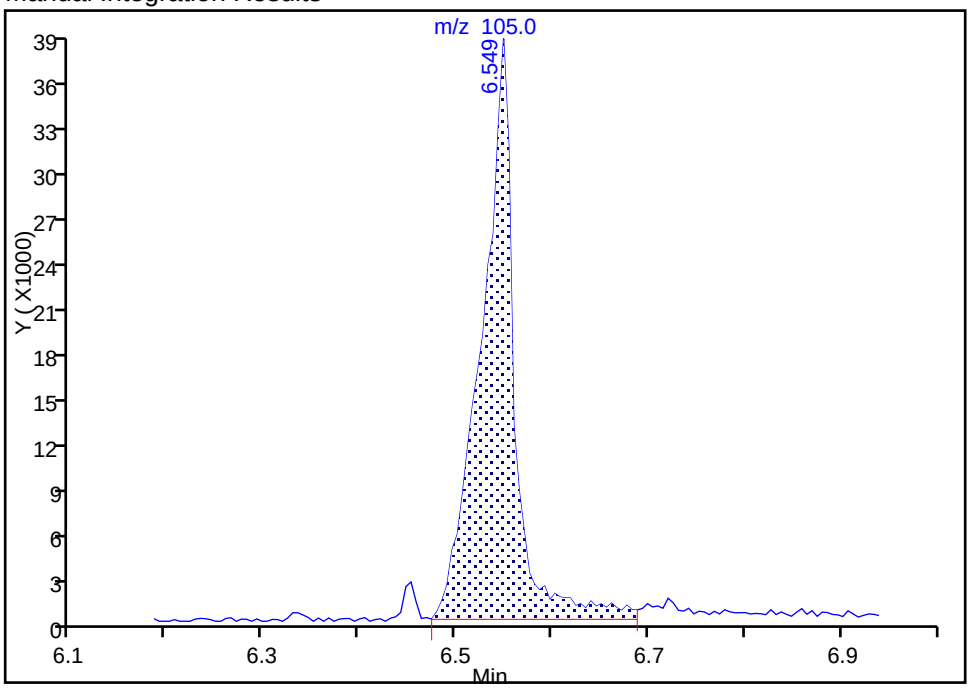
Processing Integration Results

RT: 6.55
Area: 90437
Amount: 2.881230
Amount Units: ng/uL



Manual Integration Results

RT: 6.55
Area: 93258
Amount: 5.491656
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:04:12
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

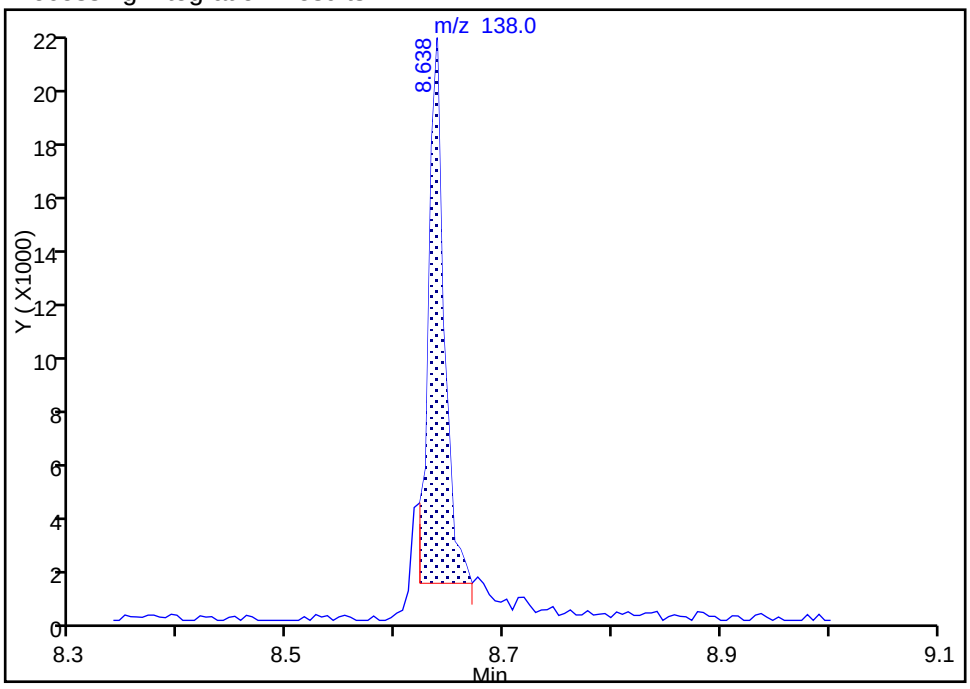
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9935.D
Injection Date: 14-Aug-2017 20:14:30 Instrument ID: HP5973W
Lims ID: IC L1 1.0
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

125 4-Nitroaniline, CAS: 100-01-6

Signal: 1

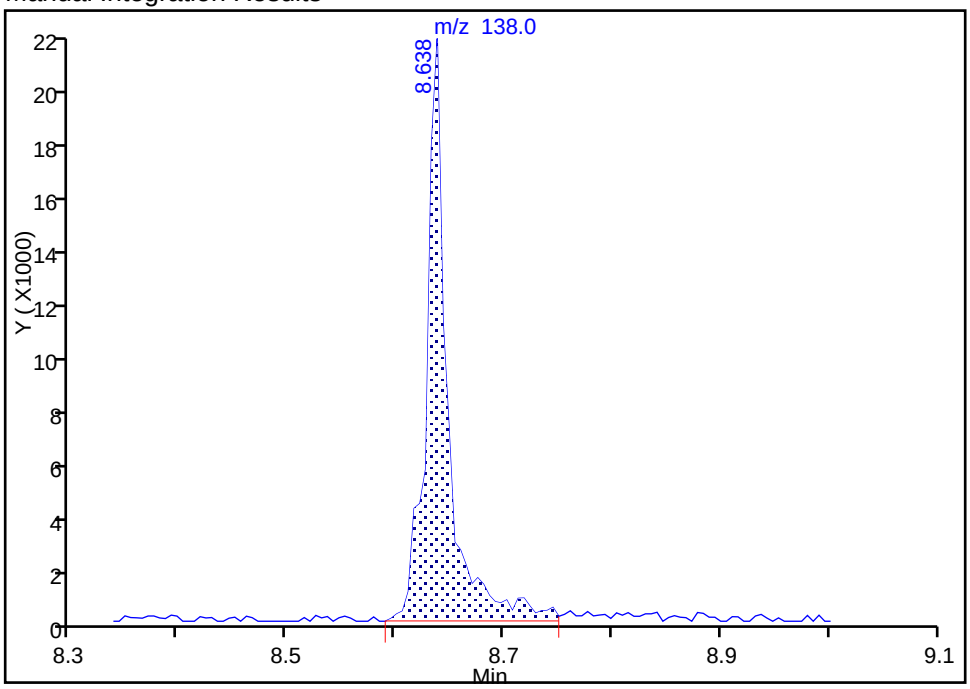
Processing Integration Results

RT: 8.64
Area: 20336
Amount: 0.844422
Amount Units: ng/uL



Manual Integration Results

RT: 8.64
Area: 30027
Amount: 0.988070
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:26:41
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

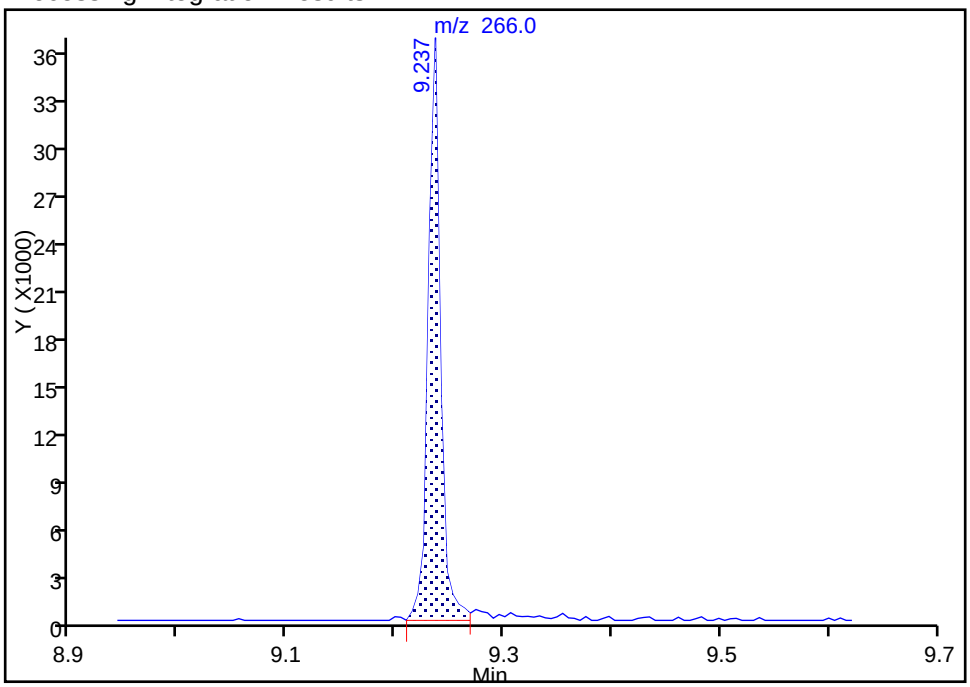
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9935.D
Injection Date: 14-Aug-2017 20:14:30 Instrument ID: HP5973W
Lims ID: IC L1 1.0
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

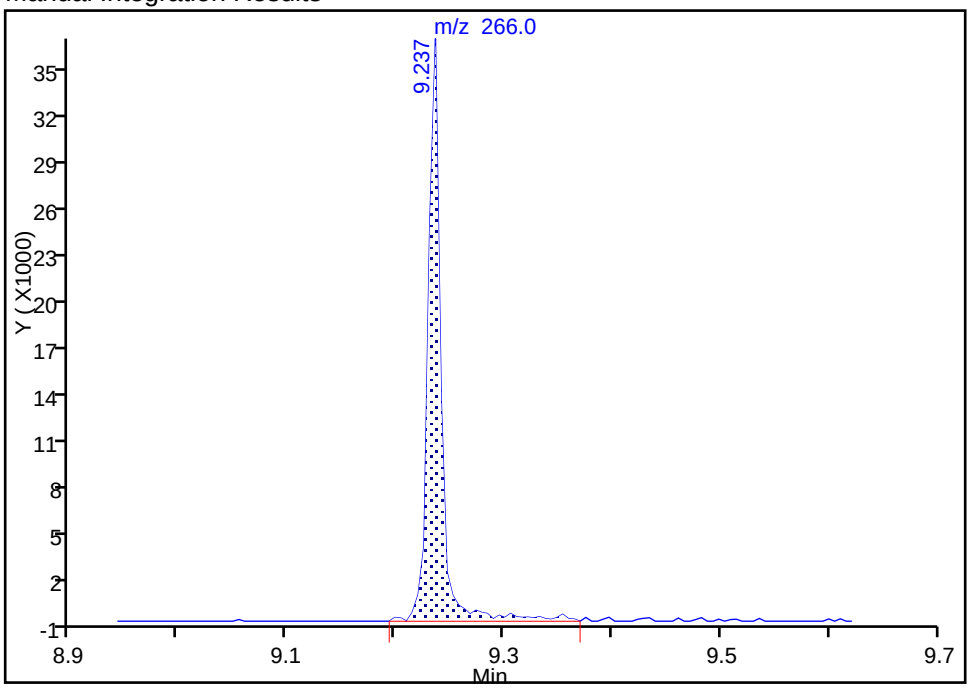
Processing Integration Results

RT: 9.24
Area: 28497
Amount: 1.700161
Amount Units: ng/uL



Manual Integration Results

RT: 9.24
Area: 30386
Amount: 1.746670
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:49:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

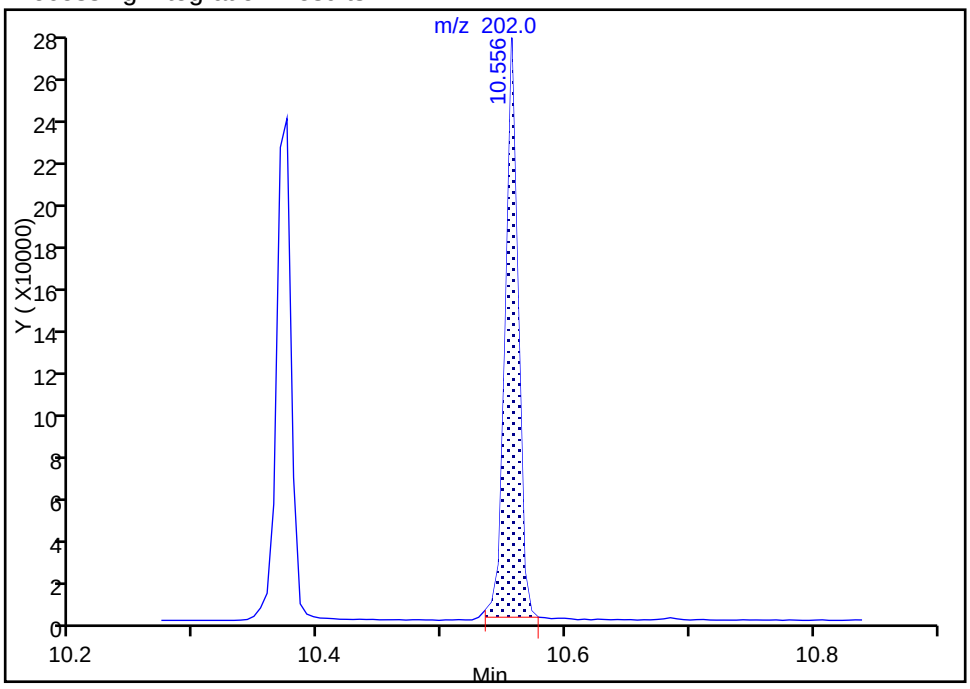
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9935.D
Injection Date: 14-Aug-2017 20:14:30 Instrument ID: HP5973W
Lims ID: IC L1 1.0
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

165 Pyrene, CAS: 129-00-0

Signal: 1

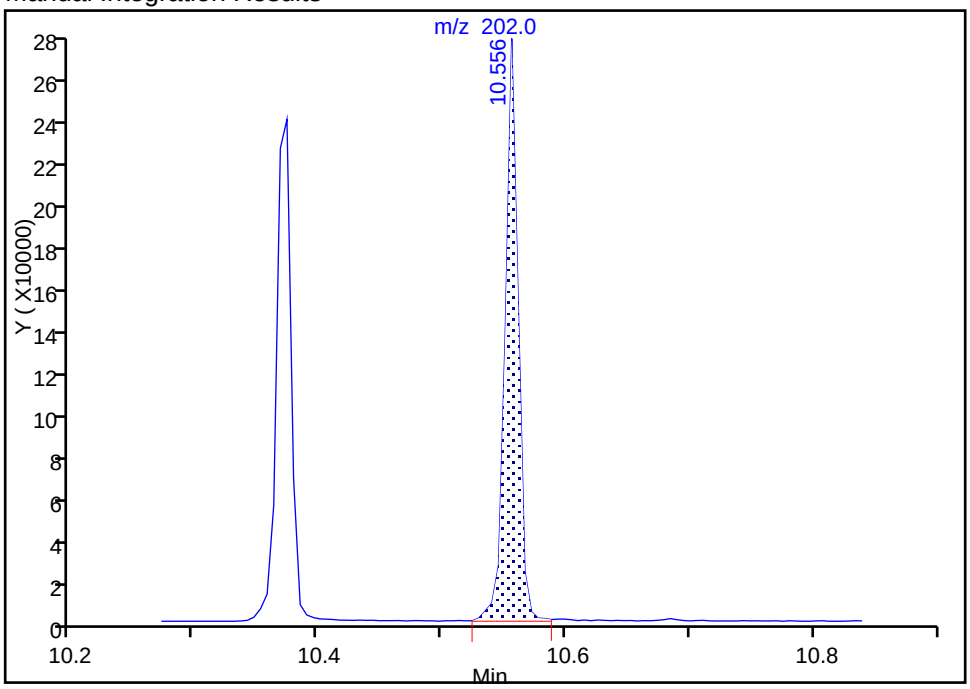
Processing Integration Results

RT: 10.56
Area: 199151
Amount: 0.958374
Amount Units: ng/uL



Manual Integration Results

RT: 10.56
Area: 204659
Amount: 0.981628
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:05:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

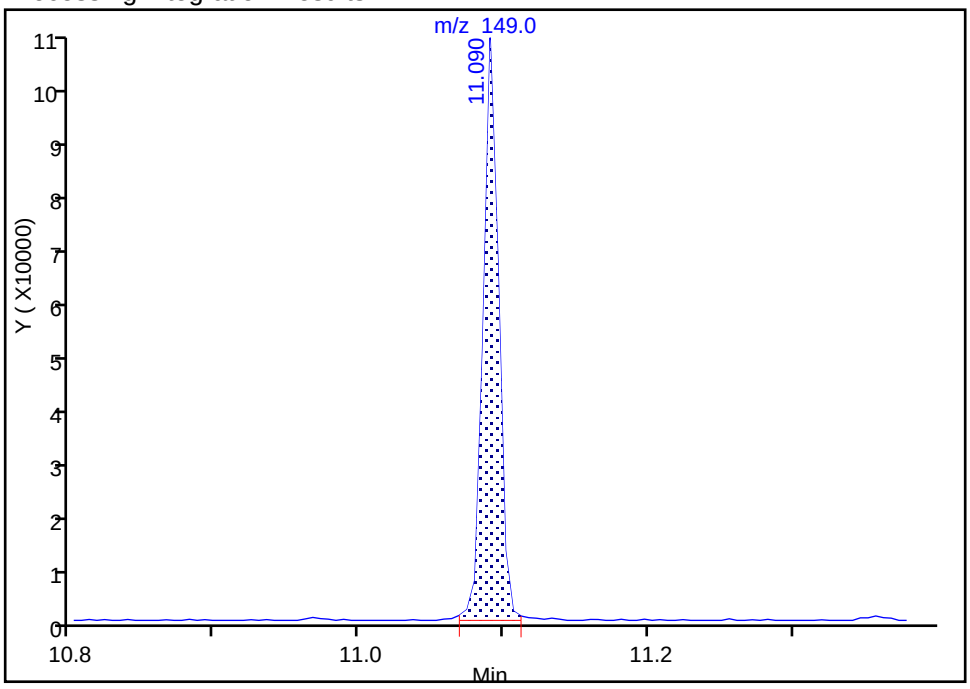
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9935.D
Injection Date: 14-Aug-2017 20:14:30 Instrument ID: HP5973W
Lims ID: IC L1 1.0
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

172 Butyl benzyl phthalate, CAS: 85-68-7

Signal: 1

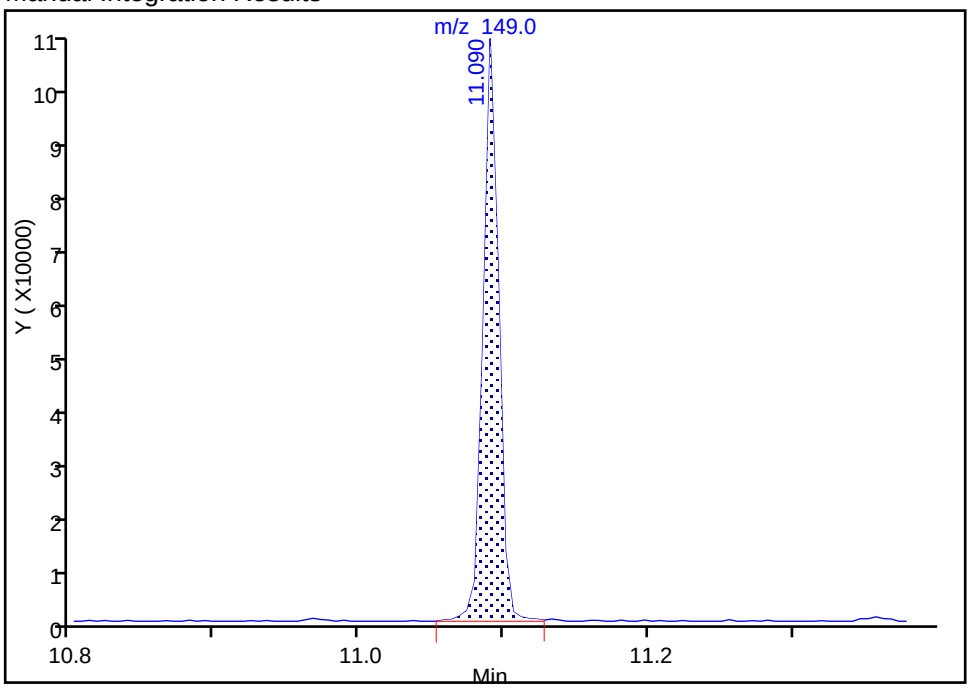
Processing Integration Results

RT: 11.09
Area: 80916
Amount: 0.960796
Amount Units: ng/uL



Manual Integration Results

RT: 11.09
Area: 81474
Amount: 0.953568
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:34:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

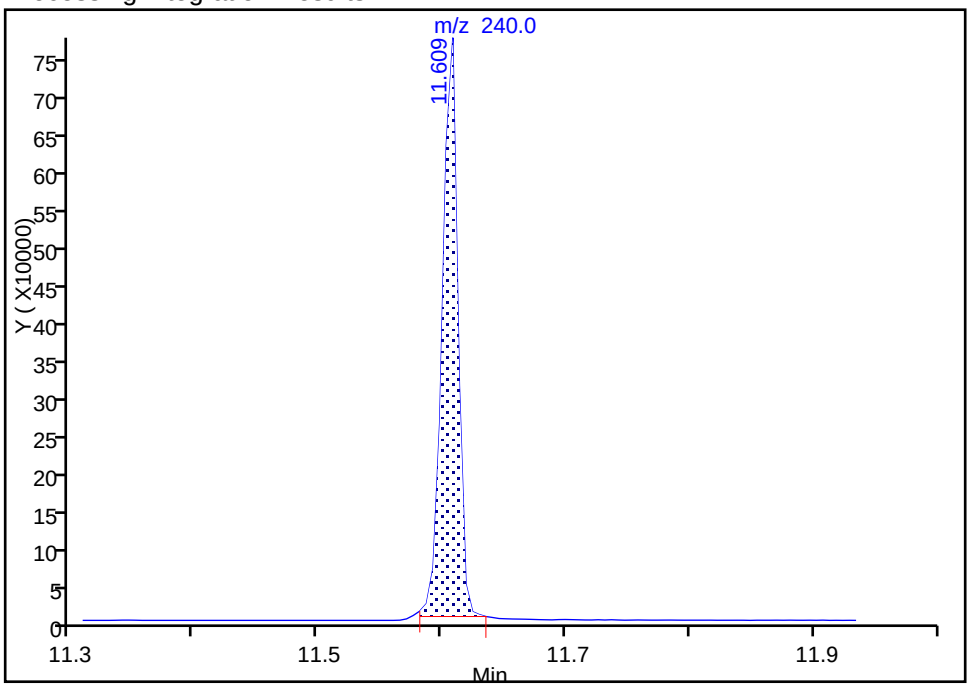
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9935.D
Injection Date: 14-Aug-2017 20:14:30 Instrument ID: HP5973W
Lims ID: IC L1 1.0
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

* 5 Chrysene-d12, CAS: 1719-03-5

Signal: 1

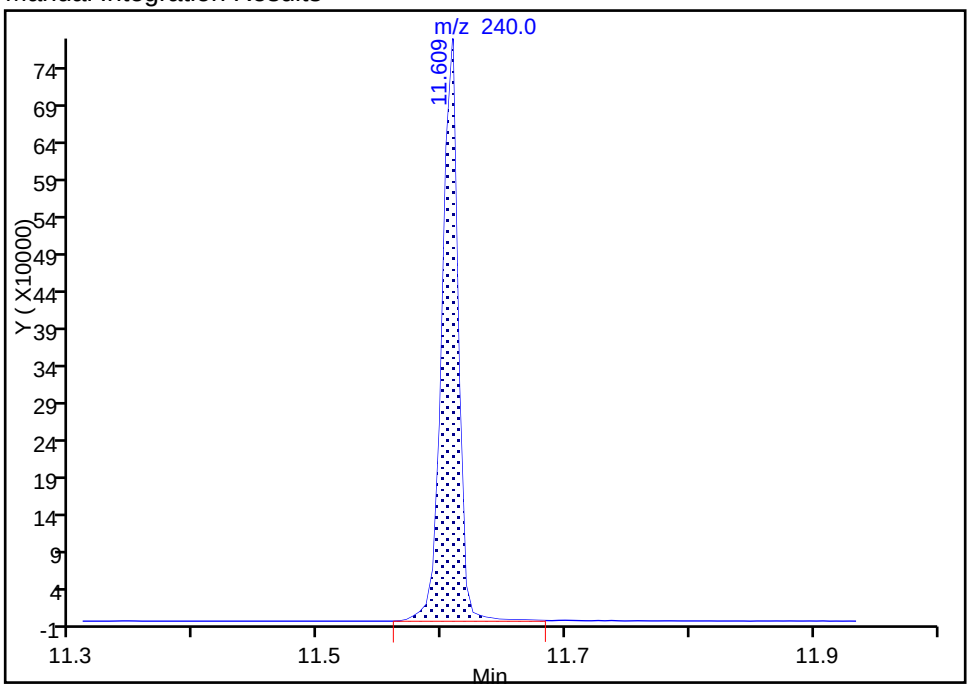
Processing Integration Results

RT: 11.61
Area: 673870
Amount: 4.000000
Amount Units: ng/uL



Manual Integration Results

RT: 11.61
Area: 701003
Amount: 4.000000
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:04:45
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

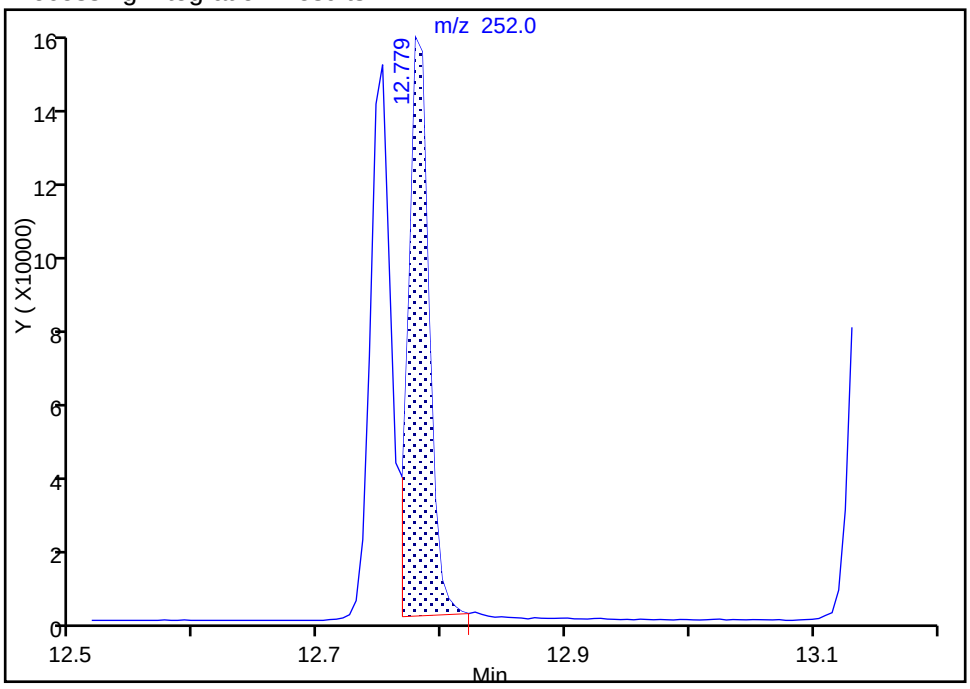
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9935.D
Injection Date: 14-Aug-2017 20:14:30 Instrument ID: HP5973W
Lims ID: IC L1 1.0
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

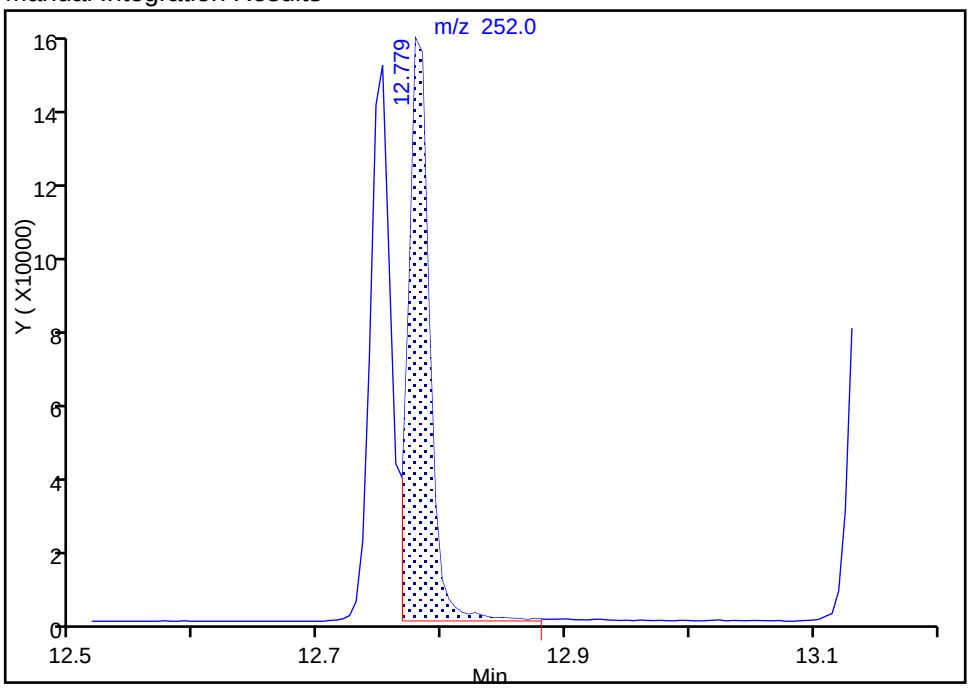
Processing Integration Results

RT: 12.78
Area: 179917
Amount: 0.969394
Amount Units: ng/uL



Manual Integration Results

RT: 12.78
Area: 187702
Amount: 1.007017
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:05:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

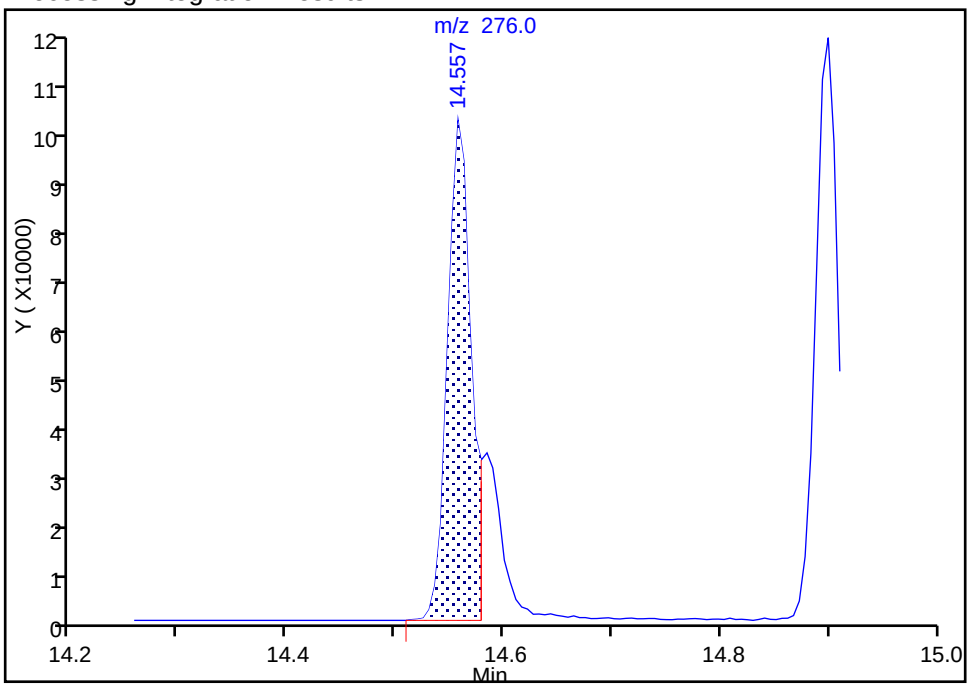
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9935.D
Injection Date: 14-Aug-2017 20:14:30 Instrument ID: HP5973W
Lims ID: IC L1 1.0
Client ID:
Operator ID: PJQ ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

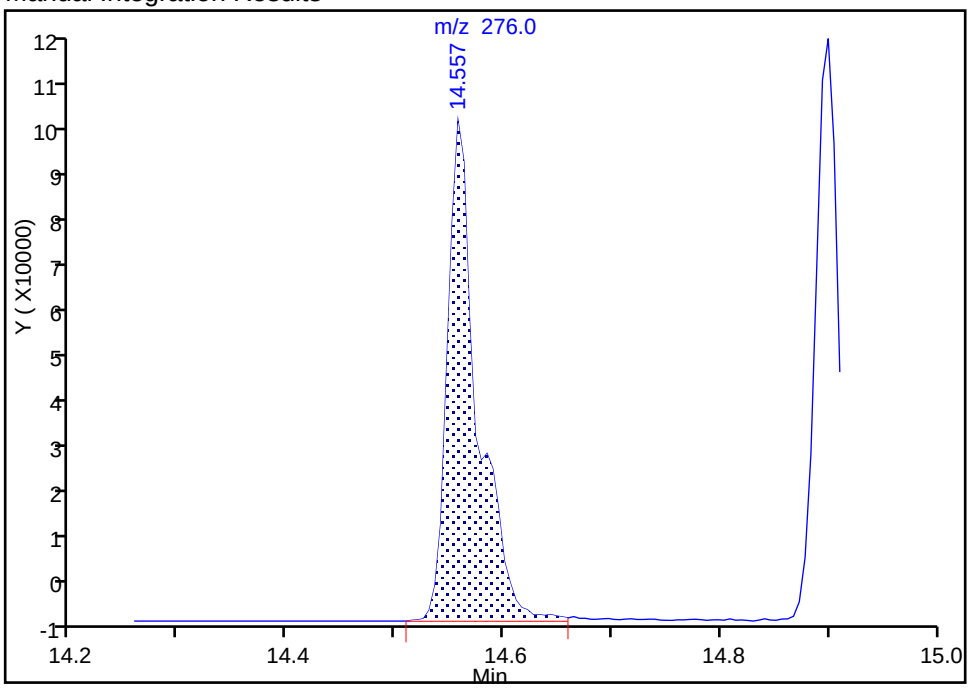
Processing Integration Results

RT: 14.56
Area: 156097
Amount: 0.822603
Amount Units: ng/uL



Manual Integration Results

RT: 14.56
Area: 196267
Amount: 0.923354
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:34:03
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9936.D
Lims ID: IC L1 2.0
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Aug-2017 20:43:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064854-006
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 15-Aug-2017 18:11:34 Calib Date: 14-Aug-2017 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: quirkp Date: 15-Aug-2017 12:27:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.609	5.609	0.000	97	203951	4.00	4.00	
* 2 Naphthalene-d8	136	6.720	6.720	0.000	99	829115	4.00	4.00	
* 3 Acenaphthene-d10	164	8.174	8.173	0.001	97	392182	4.00	4.00	
* 4 Phenanthrene-d10	188	9.386	9.386	0.000	97	712452	4.00	4.00	
* 5 Chrysene-d12	240	11.609	11.608	0.001	97	702306	4.00	4.00	
* 6 Perylene-d12	264	13.217	13.217	0.001	98	647672	4.00	4.00	
$ 7 2-Fluorophenol	112	4.375	4.375	0.000	93	140792	2.00	2.09	
$ 8 Phenol-d5	99	5.315	5.315	0.000	94	172309	2.00	2.06	
$ 9 Nitrobenzene-d5	82	6.106	6.111	-0.005	92	140678	2.00	2.00	
$ 10 2-Fluorobiphenyl	172	7.623	7.623	0.000	100	304454	2.00	2.08	
$ 11 2,4,6-Tribromophenol	330	8.820	8.820	0.000	93	36167	2.00	1.78	
$ 12 p-Terphenyl-d14	244	10.684	10.690	-0.006	99	304572	2.00	2.04	
14 1,4-Dioxane	88	2.281	2.276	0.005	98	65142	2.00	2.09	
15 N-Nitrosodimethylamine	42	2.650	2.650	0.000	46	86962	2.00	2.16	
16 Pyridine	52	2.655	2.650	0.005	90	269234	4.00	4.36	
36 Benzaldehyde	77	5.214	5.214	0.000	94	243671	4.00	4.33	
37 Phenol	94	5.326	5.326	0.000	89	196994	2.00	2.06	
38 Aniline	93	5.321	5.326	-0.005	89	226716	2.00	2.09	
40 Bis(2-chloroethyl)ether	93	5.390	5.390	0.000	96	157887	2.00	2.07	
41 2-Chlorophenol	128	5.422	5.428	-0.006	97	145321	2.00	2.04	
43 n-Decane	57	5.492	5.492	0.000	92	203251	2.00	2.07	
44 1,3-Dichlorobenzene	146	5.556	5.561	-0.005	98	171354	2.00	2.09	
45 1,4-Dichlorobenzene	146	5.625	5.625	0.000	95	171245	2.00	2.04	
46 Benzyl alcohol	108	5.753	5.759	-0.006	93	93146	2.00	2.05	
47 1,2-Dichlorobenzene	146	5.764	5.764	0.000	97	162162	2.00	2.05	
48 Indene	115	5.844	5.844	0.000	89	1345833	10.0	11.3	
49 2-Methylphenol	108	5.866	5.866	0.000	95	138416	2.00	2.06	
50 2,2'-oxybis[1-chloropropan	45	5.876	5.876	0.000	94	244355	2.00	2.08	
53 Acetophenone	105	5.983	5.983	0.000	96	203585	2.00	2.10	
55 N-Nitrosodi-n-propylamine	70	5.994	5.994	0.000	91	104800	2.00	2.08	
56 4-Methylphenol	108	6.005	6.004	0.001	95	144396	2.00	2.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.058	6.058	0.000	95	67381	2.00	2.04	
61 Nitrobenzene	77	6.122	6.127	-0.005	90	148455	2.00	2.09	
63 Isophorone	82	6.336	6.336	0.000	99	271649	2.00	2.08	
67 2-Nitrophenol	139	6.400	6.400	0.000	96	62731	2.00	1.81	
68 2,4-Dimethylphenol	107	6.453	6.453	0.000	96	146403	2.00	2.11	
71 Bis(2-chloroethoxy)methane	93	6.528	6.528	0.000	98	177400	2.00	2.08	
74 2,4-Dichlorophenol	162	6.608	6.608	0.000	94	116468	2.00	1.99	
72 Benzoic acid	105	6.582	6.619	-0.037	89	296939	10.0	9.69	M
75 1,2,4-Trichlorobenzene	180	6.672	6.678	-0.006	94	137711	2.00	1.98	
76 Naphthalene	128	6.736	6.736	0.000	98	435965	2.00	2.08	
78 4-Chloroaniline	127	6.790	6.790	0.000	96	173607	2.00	2.12	
79 2,6-Dichlorophenol	162	6.795	6.800	-0.005	92	117345	2.00	2.02	
81 Hexachlorobutadiene	225	6.854	6.854	0.000	97	77910	2.00	1.94	
84 Caprolactam	113	7.089	7.110	-0.021	80	82086	4.00	3.94	
87 4-Chloro-3-methylphenol	107	7.207	7.212	-0.005	97	116710	2.00	2.06	
89 2-Methylnaphthalene	142	7.313	7.319	-0.006	92	288778	2.00	2.05	
91 1-Methylnaphthalene	142	7.399	7.399	0.000	93	275013	2.00	2.03	
93 Hexachlorocyclopentadiene	237	7.452	7.458	-0.006	97	84328	2.00	1.92	
92 1,2,4,5-Tetrachlorobenzene	216	7.458	7.458	0.000	98	129827	2.00	2.00	
94 2,4,6-Trichlorophenol	196	7.554	7.559	-0.005	93	76772	2.00	1.93	
95 2,4,5-Trichlorophenol	196	7.586	7.591	-0.005	94	82296	2.00	2.06	
97 1,1'-Biphenyl	154	7.703	7.703	0.000	95	348500	2.00	2.10	
98 2-Chloronaphthalene	162	7.714	7.719	-0.005	97	267193	2.00	2.07	
100 2-Nitroaniline	65	7.805	7.805	0.000	85	64311	2.00	1.89	
104 Dimethyl phthalate	163	7.960	7.960	0.000	99	289112	2.00	2.13	
105 1,3-Dinitrobenzene	168	7.976	7.981	-0.005	85	35924	2.00	1.81	
106 2,6-Dinitrotoluene	165	8.003	8.002	0.001	95	58076	2.00	1.90	
107 Acenaphthylene	152	8.056	8.056	0.000	98	383707	2.00	2.16	
108 3-Nitroaniline	138	8.141	8.141	0.000	95	58791	2.00	1.90	
109 Acenaphthene	153	8.200	8.200	0.000	94	276982	2.00	2.06	
110 2,4-Dinitrophenol	184	8.227	8.227	0.000	86	45017	4.00	3.79	
111 4-Nitrophenol	109	8.291	8.296	-0.005	92	62355	4.00	3.94	
113 2,4-Dinitrotoluene	165	8.334	8.334	0.000	94	71493	2.00	1.82	
114 Dibenzofuran	168	8.339	8.344	-0.005	96	355950	2.00	2.06	
117 2,3,4,6-Tetrachlorophenol	232	8.446	8.451	-0.005	74	59038	2.00	1.83	
119 Diethyl phthalate	149	8.531	8.537	-0.006	98	274267	2.00	2.07	
120 Hexadecane	57	8.553	8.553	0.000	90	216538	2.00	2.14	
122 4-Chlorophenyl phenyl ethe	204	8.622	8.622	0.000	73	145757	2.00	2.05	
123 Fluorene	166	8.622	8.622	0.000	94	291369	2.00	2.08	
125 4-Nitroaniline	138	8.638	8.644	-0.006	92	66786	2.00	2.03	M
126 4,6-Dinitro-2-methylphenol	198	8.665	8.670	-0.005	87	65151	4.00	3.66	
129 N-Nitrosodiphenylamine	169	8.718	8.724	-0.006	62	201878	2.00	2.02	
128 Diphenylamine	169	8.718	8.724	-0.006	95	201878	1.71	1.72	
130 1,2-Diphenylhydrazine	77	8.750	8.750	0.000	99	295014	2.00	2.15	
131 Azobenzene	77	8.750	8.750	0.000	99	295014	2.00	2.12	
137 4-Bromophenyl phenyl ether	248	9.023	9.023	0.000	68	79395	2.00	1.98	
138 Hexachlorobenzene	284	9.076	9.076	0.000	95	89058	2.00	2.00	
141 Atrazine	200	9.162	9.162	0.000	94	155070	4.00	4.13	
143 Pentachlorophenol	266	9.237	9.237	0.000	92	75350	4.00	3.53	M
146 n-Octadecane	57	9.306	9.306	0.000	93	205303	2.00	2.07	
149 Phenanthrene	178	9.402	9.407	-0.005	98	421137	2.00	2.01	
150 Anthracene	178	9.445	9.445	0.000	97	429693	2.00	2.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	9.579	9.578	0.001	96	334579	2.00	2.16	
154 Di-n-butyl phthalate	149	9.867	9.867	0.000	100	430906	2.00	2.05	
161 Fluoranthene	202	10.375	10.374	0.001	98	421835	2.00	2.02	
164 Benzidine	184	10.481	10.487	-0.006	99	81291	2.00	1.34	
165 Pyrene	202	10.556	10.561	-0.005	97	440622	2.00	2.11	
172 Butyl benzyl phthalate	149	11.090	11.096	-0.006	99	179468	2.00	1.98	
177 3,3'-Dichlorobenzidine	252	11.577	11.576	0.001	74	73054	2.00	1.57	
179 Benzo[a]anthracene	228	11.598	11.598	0.000	98	418545	2.00	2.06	
180 Bis(2-ethylhexyl) phthalat	149	11.630	11.630	0.000	96	272231	2.00	2.01	
181 Chrysene	228	11.630	11.635	-0.005	97	411747	2.00	2.04	
184 Di-n-octyl phthalate	149	12.314	12.319	-0.005	99	423038	2.00	1.94	
186 Benzo[b]fluoranthene	252	12.752	12.757	-0.005	97	380063	2.00	1.90	
187 Benzo[k]fluoranthene	252	12.784	12.789	-0.005	99	404119	2.00	2.01	
189 Benzo[a]pyrene	252	13.142	13.147	-0.005	78	354287	2.00	1.91	
193 Indeno[1,2,3-cd]pyrene	276	14.563	14.568	-0.005	99	441603	2.00	1.88	
194 Dibenz(a,h)anthracene	278	14.590	14.595	-0.005	89	382334	2.00	1.89	
195 Benzo[g,h,i]perylene	276	14.905	14.910	-0.005	98	388889	2.00	1.93	
S 258 3-Methylphenol	1				0			2.10	
S 262 Total Cresols	1				0			4.15	
S 257 3 & 4 Methylphenol	108				0			2.10	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00265	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00133	Amount Added: 20.00	Units: uL	Run Reagent

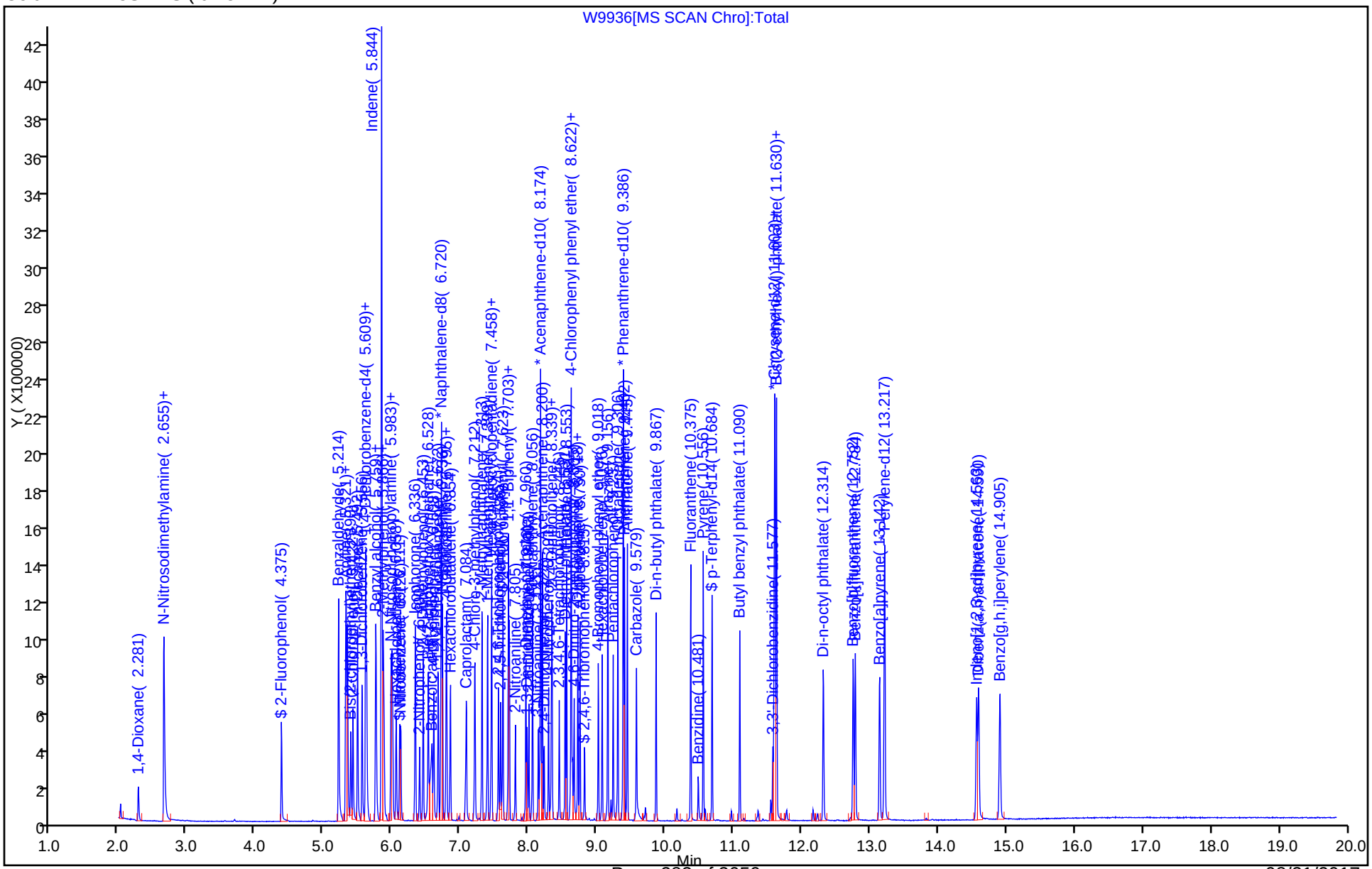
Report Date: 15-Aug-2017 18:11:35 Chrom Revision: 2.2 08-Aug-2017 17:51:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9936.D

Injection Date:	14-Aug-2017 20:43:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 2.0			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

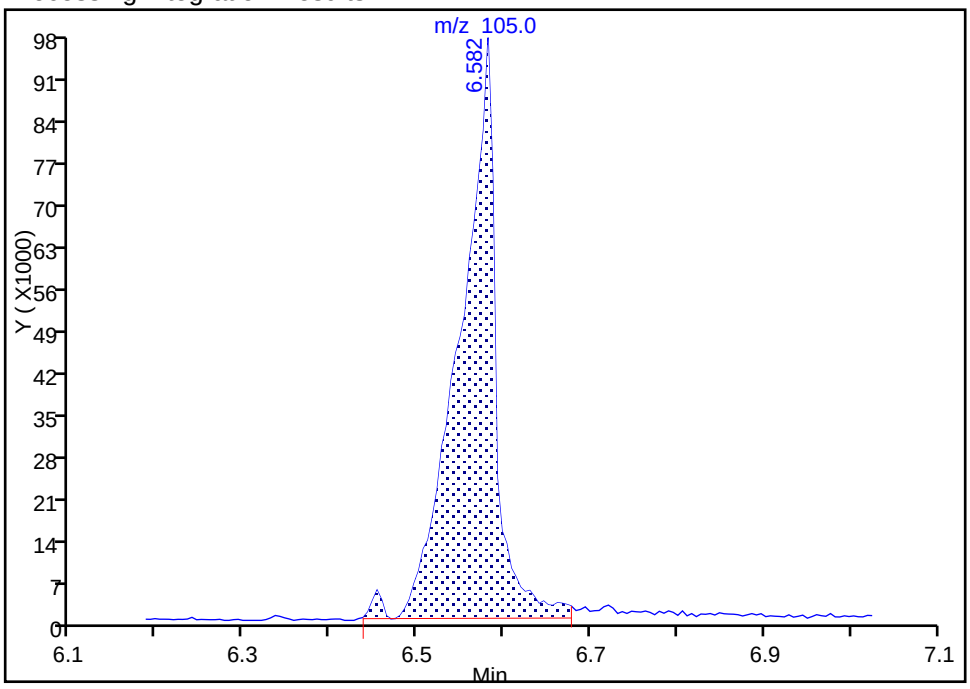
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9936.D
Injection Date: 14-Aug-2017 20:43:30 Instrument ID: HP5973W
Lims ID: IC L1 2.0
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

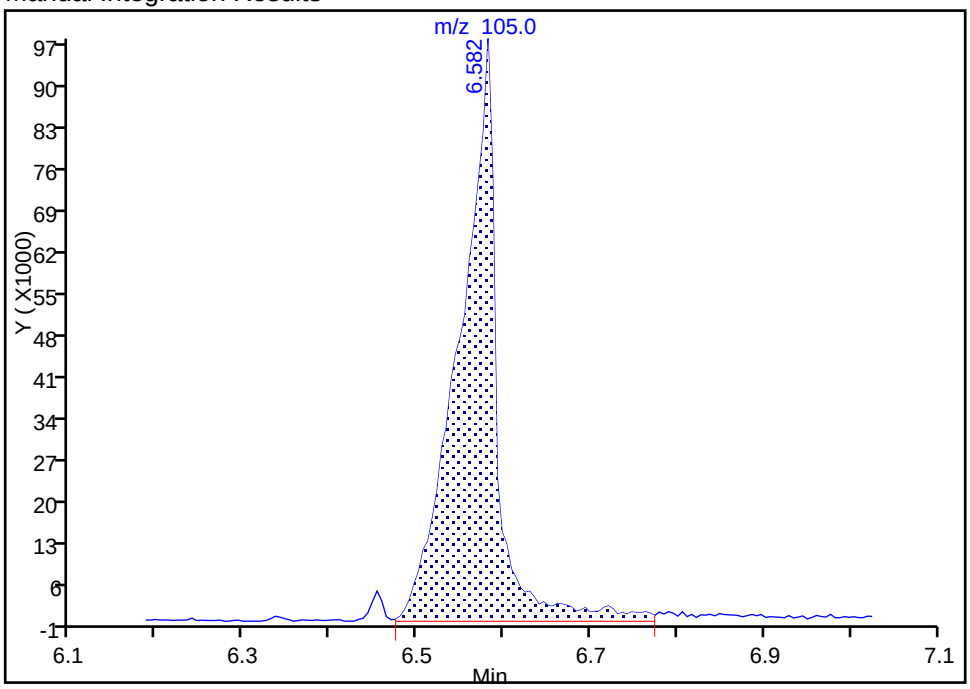
Processing Integration Results

RT: 6.58
Area: 286954
Amount: 8.773038
Amount Units: ng/uL



Manual Integration Results

RT: 6.58
Area: 296939
Amount: 9.690518
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:35:27
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

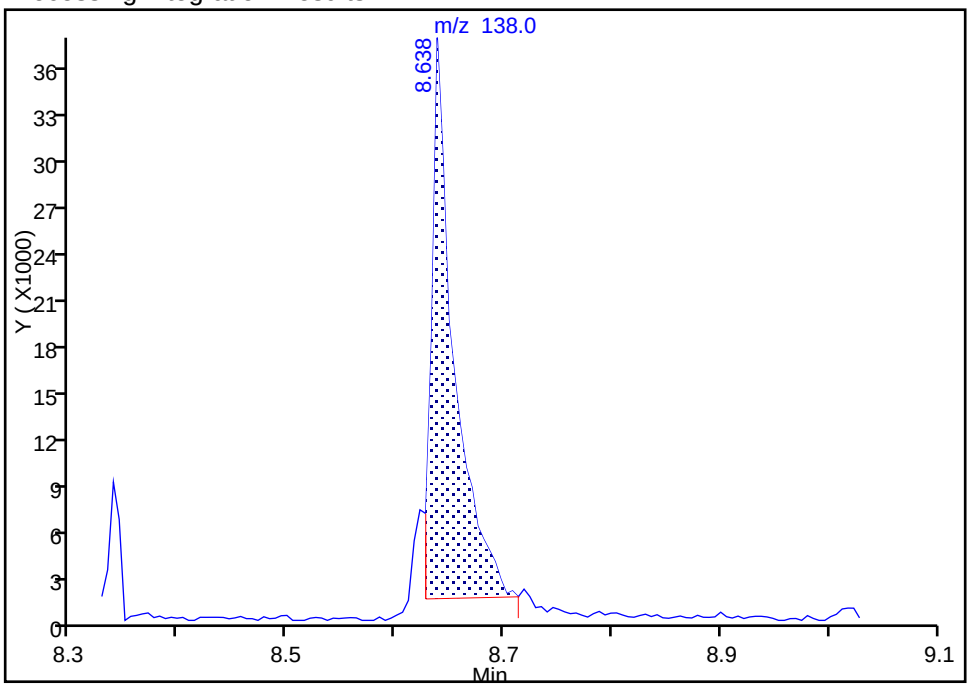
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9936.D
Injection Date: 14-Aug-2017 20:43:30 Instrument ID: HP5973W
Lims ID: IC L1 2.0
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

125 4-Nitroaniline, CAS: 100-01-6

Signal: 1

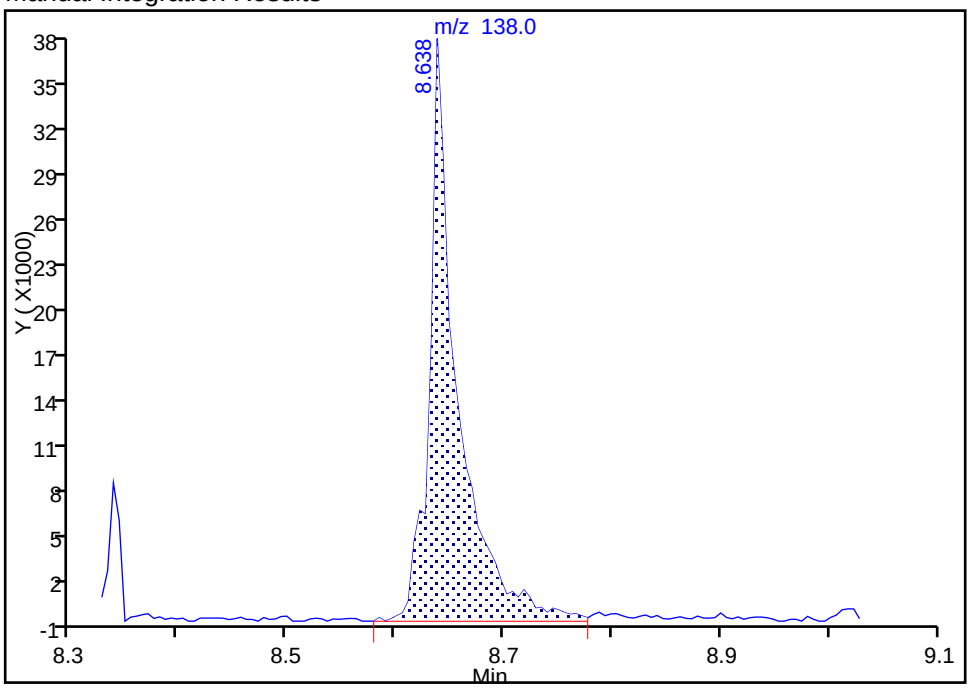
Processing Integration Results

RT: 8.64
Area: 51209
Amount: 1.970188
Amount Units: ng/uL



Manual Integration Results

RT: 8.64
Area: 66786
Amount: 2.026064
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:27:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

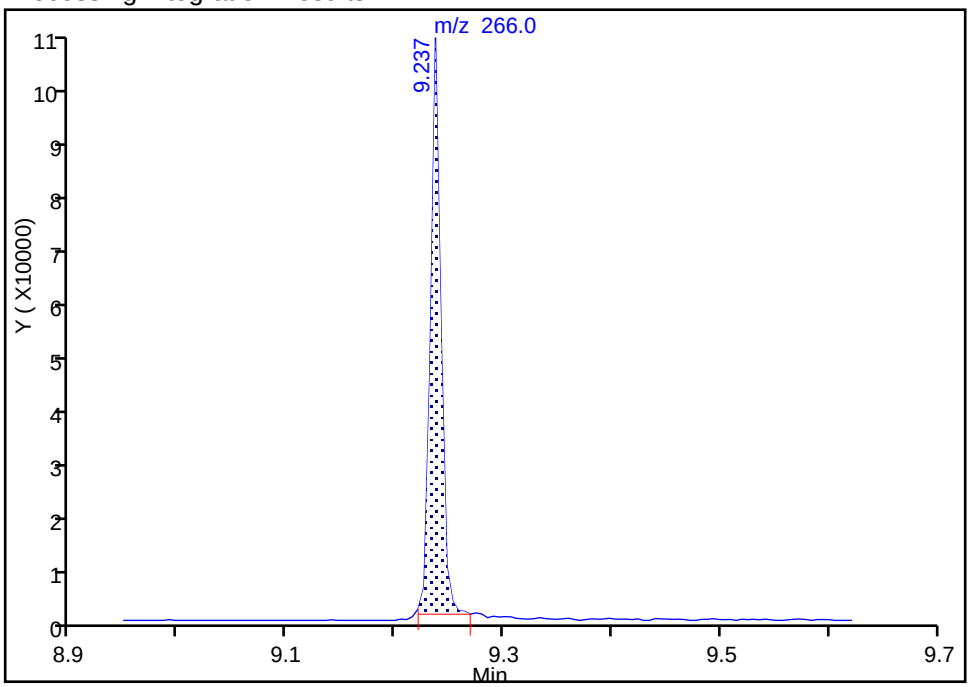
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9936.D
Injection Date: 14-Aug-2017 20:43:30 Instrument ID: HP5973W
Lims ID: IC L1 2.0
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

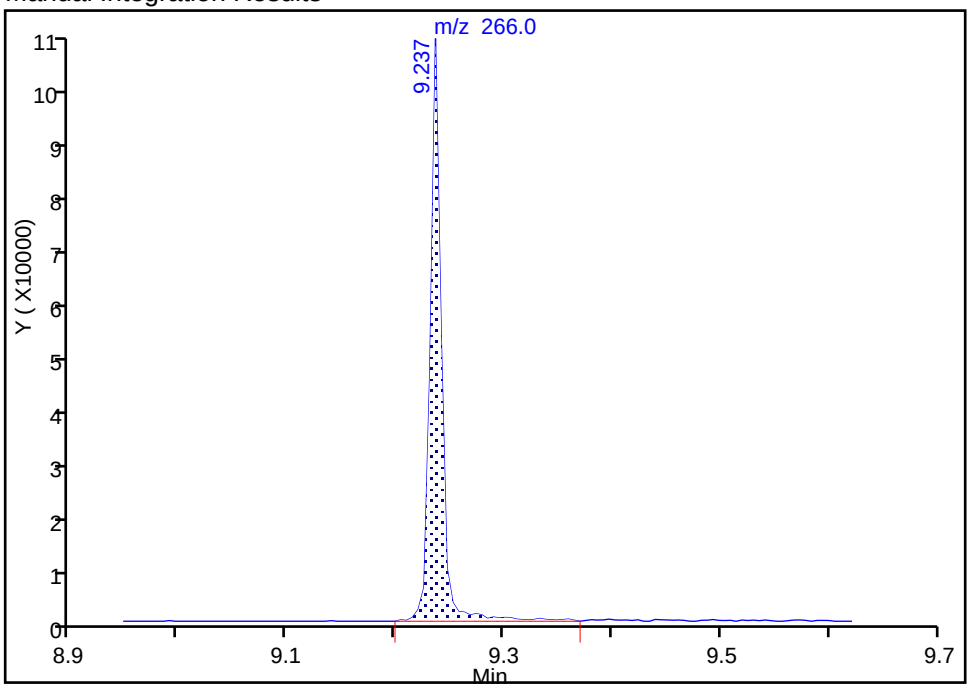
Processing Integration Results

RT: 9.24
Area: 68636
Amount: 3.408082
Amount Units: ng/uL



Manual Integration Results

RT: 9.24
Area: 75350
Amount: 3.529435
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:49:04
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9937.D
Lims ID: ICIS L1 4.0
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 14-Aug-2017 21:13:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064854-007
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 15-Aug-2017 18:11:38 Calib Date: 14-Aug-2017 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: quirkp Date: 15-Aug-2017 12:23:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.609	5.609	0.000	97	208712	4.00	4.00	
* 2 Naphthalene-d8	136	6.720	6.720	0.000	99	848730	4.00	4.00	
* 3 Acenaphthene-d10	164	8.173	8.173	0.000	97	407575	4.00	4.00	
* 4 Phenanthrene-d10	188	9.386	9.386	0.000	97	722272	4.00	4.00	
* 5 Chrysene-d12	240	11.608	11.608	0.000	97	725335	4.00	4.00	
* 6 Perylene-d12	264	13.217	13.217	0.000	98	666169	4.00	4.00	
$ 7 2-Fluorophenol	112	4.375	4.375	0.000	94	274702	4.00	3.97	
$ 8 Phenol-d5	99	5.315	5.315	0.000	94	348921	4.00	4.05	
$ 9 Nitrobenzene-d5	82	6.111	6.111	0.000	90	290861	4.00	3.99	
$ 10 2-Fluorobiphenyl	172	7.623	7.623	0.000	100	606498	4.00	3.98	
$ 11 2,4,6-Tribromophenol	330	8.820	8.820	0.000	94	81399	4.00	3.80	
$ 12 p-Terphenyl-d14	244	10.690	10.690	0.000	99	636309	4.00	4.12	
14 1,4-Dioxane	88	2.276	2.276	0.000	99	128716	4.00	4.10	
16 Pyridine	52	2.650	2.650	0.000	90	527162	8.00	8.33	
15 N-Nitrosodimethylamine	42	2.650	2.650	0.000	91	169480	4.00	4.11	
36 Benzaldehyde	77	5.214	5.214	0.000	93	472684	8.00	8.21	
38 Aniline	93	5.326	5.326	0.000	94	450475	4.00	4.06	
37 Phenol	94	5.326	5.326	0.000	96	396866	4.00	4.05	
40 Bis(2-chloroethyl)ether	93	5.390	5.390	0.000	95	311225	4.00	3.99	
41 2-Chlorophenol	128	5.428	5.428	0.000	98	297084	4.00	4.07	
43 n-Decane	57	5.492	5.492	0.000	92	401093	4.00	4.00	
44 1,3-Dichlorobenzene	146	5.561	5.561	0.000	98	335979	4.00	4.01	
45 1,4-Dichlorobenzene	146	5.625	5.625	0.000	94	338825	4.00	3.95	
46 Benzyl alcohol	108	5.759	5.759	0.000	93	188657	4.00	4.02	
47 1,2-Dichlorobenzene	146	5.764	5.764	0.000	95	323784	4.00	4.01	
48 Indene	115	5.844	5.844	0.000	89	2594148	20.0	21.2	
49 2-Methylphenol	108	5.866	5.866	0.000	94	273197	4.00	3.97	
50 2,2'-oxybis[1-chloropropan	45	5.876	5.876	0.000	94	481537	4.00	4.00	
53 Acetophenone	105	5.983	5.983	0.000	97	403226	4.00	4.06	
55 N-Nitrosodi-n-propylamine	70	5.994	5.994	0.000	92	207568	4.00	4.03	
56 4-Methylphenol	108	6.004	6.004	0.000	97	285512	4.00	4.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.058	6.058	0.000	96	134770	4.00	3.98	
61 Nitrobenzene	77	6.127	6.127	0.000	89	293506	4.00	4.01	
63 Isophorone	82	6.336	6.336	0.000	99	555682	4.00	4.15	
67 2-Nitrophenol	139	6.400	6.400	0.000	97	138946	4.00	3.75	
68 2,4-Dimethylphenol	107	6.453	6.453	0.000	96	286966	4.00	4.03	
71 Bis(2-chloroethoxy)methane	93	6.528	6.528	0.000	99	352183	4.00	4.04	
74 2,4-Dichlorophenol	162	6.608	6.608	0.000	95	244290	4.00	4.04	
72 Benzoic acid	105	6.619	6.619	0.000	90	737516	20.0	18.6	M
75 1,2,4-Trichlorobenzene	180	6.678	6.678	0.000	94	283806	4.00	3.98	
76 Naphthalene	128	6.736	6.736	0.000	98	845764	4.00	3.95	
78 4-Chloroaniline	127	6.790	6.790	0.000	96	345454	4.00	4.13	
79 2,6-Dichlorophenol	162	6.800	6.800	0.000	98	244895	4.00	4.12	
81 Hexachlorobutadiene	225	6.854	6.854	0.000	95	164806	4.00	4.01	
84 Caprolactam	113	7.110	7.110	0.000	78	171929	8.00	7.83	M
87 4-Chloro-3-methylphenol	107	7.212	7.212	0.000	97	238549	4.00	4.07	
89 2-Methylnaphthalene	142	7.319	7.319	0.000	92	580567	4.00	4.04	
91 1-Methylnaphthalene	142	7.399	7.399	0.000	93	547545	4.00	3.94	
92 1,2,4,5-Tetrachlorobenzene	216	7.458	7.458	0.000	97	267597	4.00	3.98	
93 Hexachlorocyclopentadiene	237	7.458	7.458	0.000	96	178386	4.00	3.80	
94 2,4,6-Trichlorophenol	196	7.559	7.559	0.000	92	161977	4.00	3.81	
95 2,4,5-Trichlorophenol	196	7.591	7.591	0.000	94	167797	4.00	3.99	
97 1,1'-Biphenyl	154	7.703	7.703	0.000	94	700924	4.00	4.06	
98 2-Chloronaphthalene	162	7.719	7.719	0.000	95	532130	4.00	3.96	
100 2-Nitroaniline	65	7.805	7.805	0.000	86	141292	4.00	3.87	
104 Dimethyl phthalate	163	7.960	7.960	0.000	99	554169	4.00	3.93	
105 1,3-Dinitrobenzene	168	7.981	7.981	0.000	94	80669	4.00	3.73	
106 2,6-Dinitrotoluene	165	8.002	8.002	0.000	95	126986	4.00	3.85	
107 Acenaphthylene	152	8.056	8.056	0.000	98	752647	4.00	4.08	
108 3-Nitroaniline	138	8.141	8.141	0.000	96	128869	4.00	3.84	
109 Acenaphthene	153	8.200	8.200	0.000	94	539470	4.00	3.86	
110 2,4-Dinitrophenol	184	8.227	8.227	0.000	87	113951	8.00	7.06	
111 4-Nitrophenol	109	8.296	8.296	0.000	89	135610	8.00	7.84	
113 2,4-Dinitrotoluene	165	8.334	8.334	0.000	94	160051	4.00	3.71	
114 Dibenzofuran	168	8.344	8.344	0.000	97	722722	4.00	4.03	
117 2,3,4,6-Tetrachlorophenol	232	8.451	8.451	0.000	72	131746	4.00	3.75	
119 Diethyl phthalate	149	8.537	8.537	0.000	98	554147	4.00	4.02	
120 Hexadecane	57	8.553	8.553	0.000	90	426878	4.00	4.05	
123 Fluorene	166	8.622	8.622	0.000	94	584803	4.00	4.01	
122 4-Chlorophenyl phenyl ethe	204	8.622	8.622	0.000	71	291876	4.00	3.94	
125 4-Nitroaniline	138	8.644	8.644	0.000	90	135951	4.00	3.87	M
126 4,6-Dinitro-2-methylphenol	198	8.670	8.670	0.000	91	149179	8.00	8.27	
128 Diphenylamine	169	8.724	8.724	0.000	94	403502	3.42	3.40	
129 N-Nitrosodiphenylamine	169	8.724	8.724	0.000	63	403502	4.00	3.97	
131 Azobenzene	77	8.750	8.750	0.000	99	581562	4.00	4.12	
130 1,2-Diphenylhydrazine	77	8.750	8.750	0.000	99	581562	4.00	4.08	
137 4-Bromophenyl phenyl ether	248	9.023	9.023	0.000	66	163668	4.00	4.02	
138 Hexachlorobenzene	284	9.076	9.076	0.000	95	180008	4.00	3.99	
141 Atrazine	200	9.162	9.162	0.000	93	313210	8.00	7.96	
143 Pentachlorophenol	266	9.237	9.237	0.000	91	171778	8.00	7.39	M
146 n-Octadecane	57	9.306	9.306	0.000	92	418788	4.00	4.16	
149 Phenanthrene	178	9.407	9.407	0.000	97	846094	4.00	3.98	
150 Anthracene	178	9.445	9.445	0.000	98	864872	4.00	4.13	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	9.578	9.578	0.000	96	612657	4.00	3.89	
154 Di-n-butyl phthalate	149	9.867	9.867	0.000	100	900816	4.00	4.23	
161 Fluoranthene	202	10.374	10.374	0.000	98	863505	4.00	4.06	
164 Benzidine	184	10.487	10.487	0.000	99	209268	4.00	3.35	
165 Pyrene	202	10.561	10.561	0.000	98	896250	4.00	4.15	
172 Butyl benzyl phthalate	149	11.096	11.096	0.000	97	380285	4.00	3.95	
177 3,3'-Dichlorobenzidine	252	11.576	11.576	0.000	74	168440	4.00	3.51	
179 Benzo[a]anthracene	228	11.598	11.598	0.000	98	848687	4.00	4.04	
180 Bis(2-ethylhexyl) phthalat	149	11.630	11.630	0.000	96	577815	4.00	4.04	
181 Chrysene	228	11.635	11.635	0.000	97	844232	4.00	4.05	M
184 Di-n-octyl phthalate	149	12.319	12.319	0.000	99	944785	4.00	4.02	
186 Benzo[b]fluoranthene	252	12.757	12.757	0.000	97	807113	4.00	3.87	
187 Benzo[k]fluoranthene	252	12.789	12.789	0.000	99	827791	4.00	3.98	
189 Benzo[a]pyrene	252	13.147	13.147	0.000	77	764103	4.00	3.93	
193 Indeno[1,2,3-cd]pyrene	276	14.568	14.568	0.000	99	968441	4.00	3.93	M
194 Dibenz(a,h)anthracene	278	14.595	14.595	0.000	89	822652	4.00	3.89	
195 Benzo[g,h,i]perylene	276	14.910	14.910	0.000	98	829823	4.00	3.96	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00266	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00133	Amount Added: 20.00	Units: uL	Run Reagent

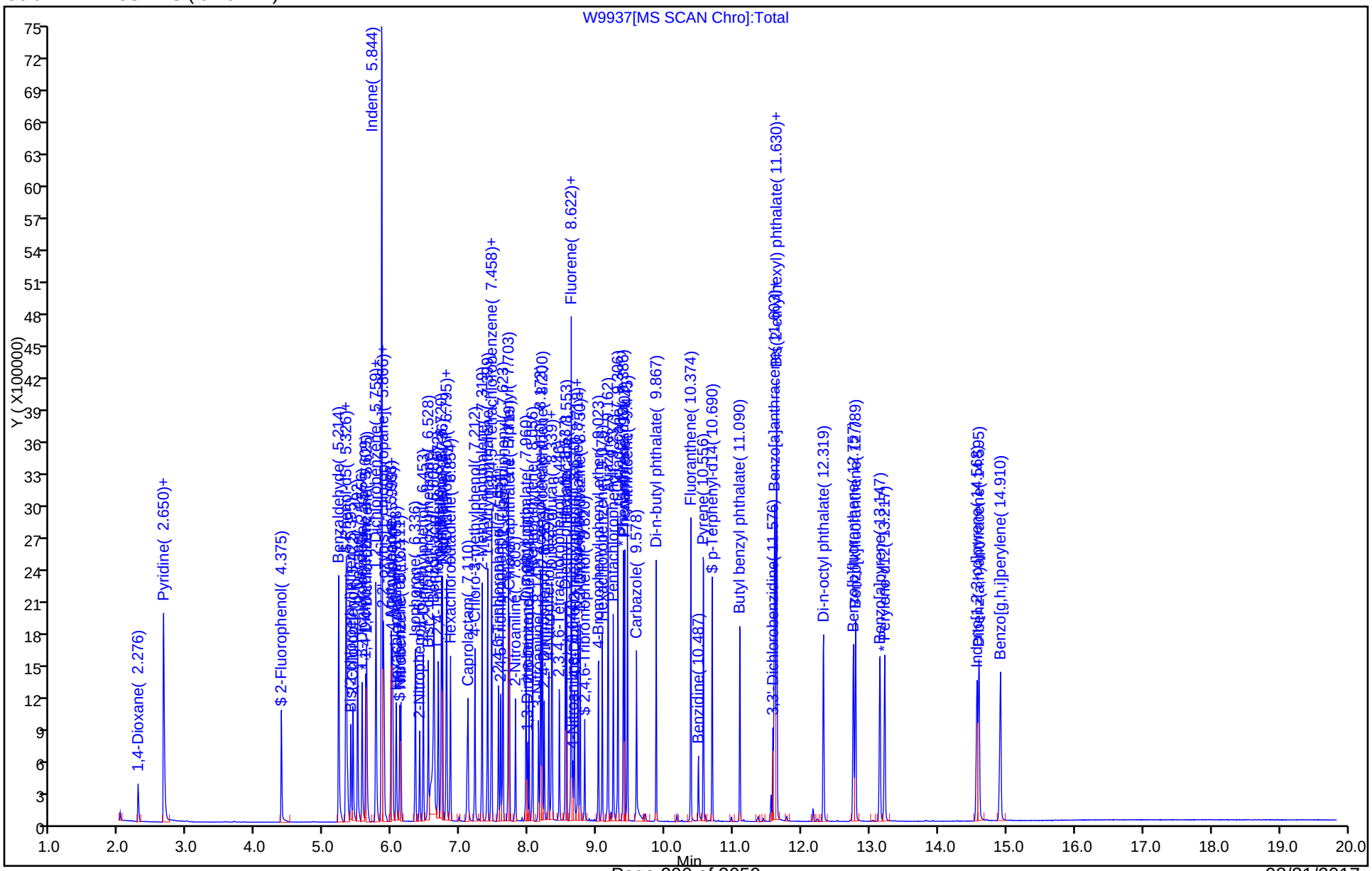
Report Date: 15-Aug-2017 18:11:39 Chrom Revision: 2.2 08-Aug-2017 17:51:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9937.D

Injection Date:	14-Aug-2017 21:13:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	ICIS L1 4.0			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

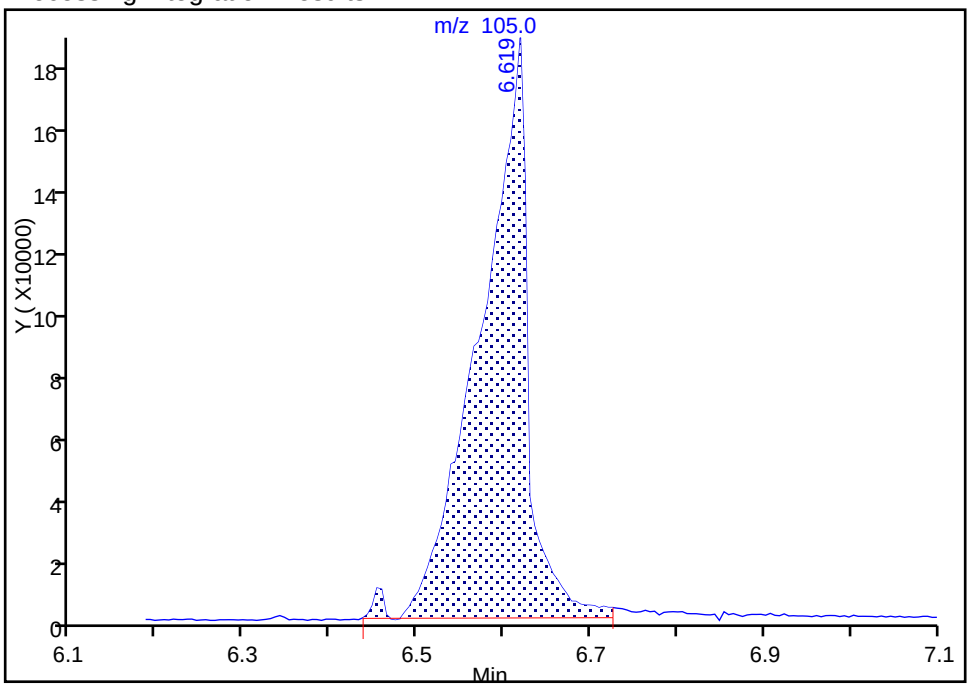
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9937.D
Injection Date: 14-Aug-2017 21:13:30 Instrument ID: HP5973W
Lims ID: ICIS L1 4.0
Client ID:
Operator ID: PJQ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

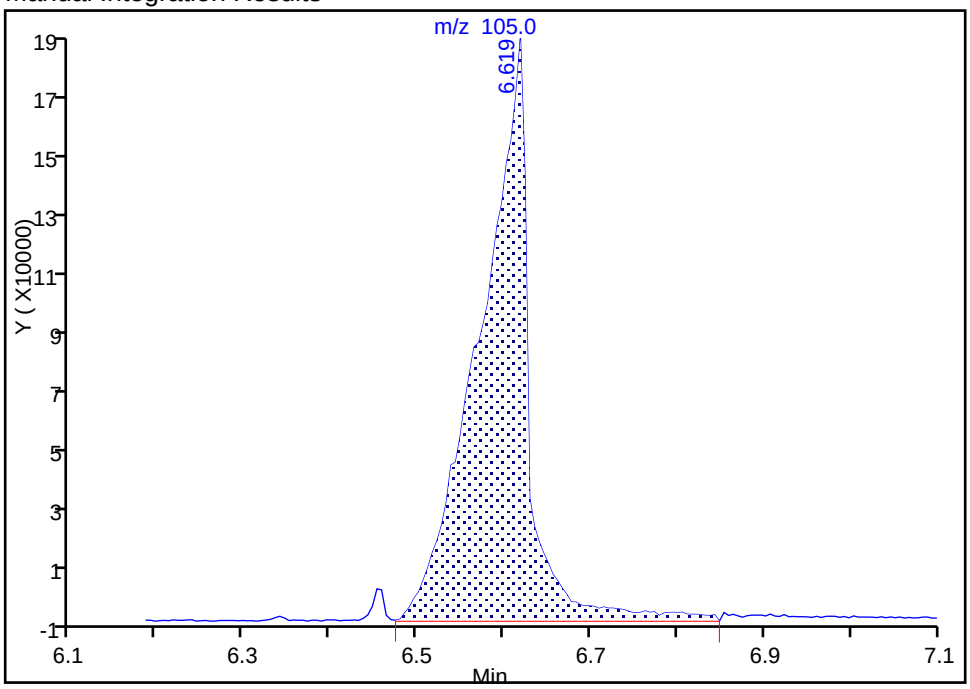
Processing Integration Results

RT: 6.62
Area: 714858
Amount: 18.334910
Amount Units: ng/uL



Manual Integration Results

RT: 6.62
Area: 737516
Amount: 18.569118
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:22:06
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

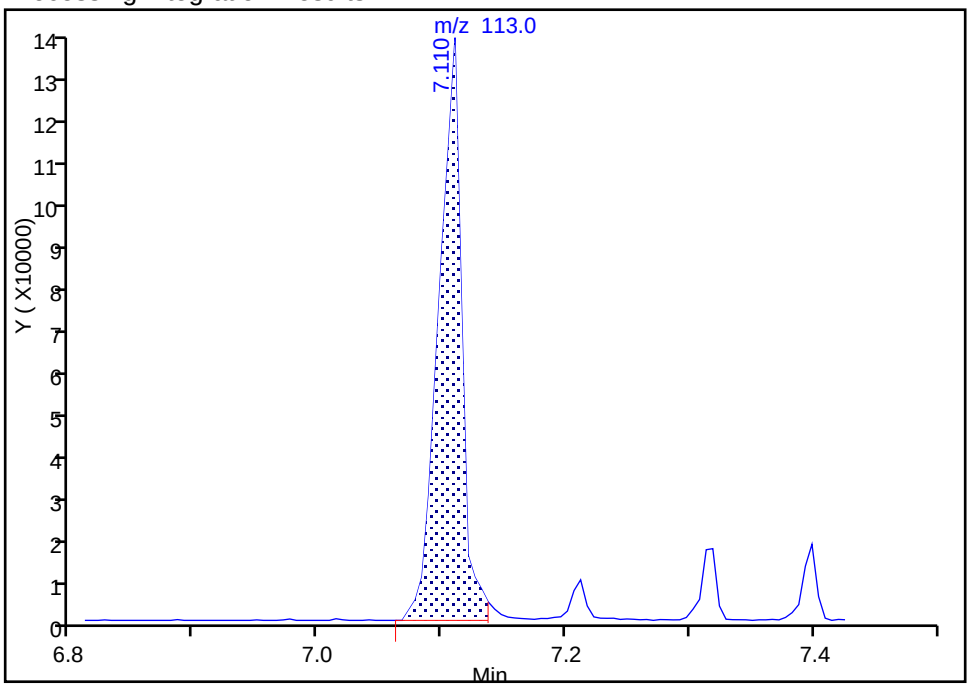
Data File:	\\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9937.D				
Injection Date:	14-Aug-2017 21:13:30	Instrument ID:	HP5973W		
Lims ID:	ICIS L1 4.0				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

84 Caprolactam, CAS: 105-60-2

Signal: 1

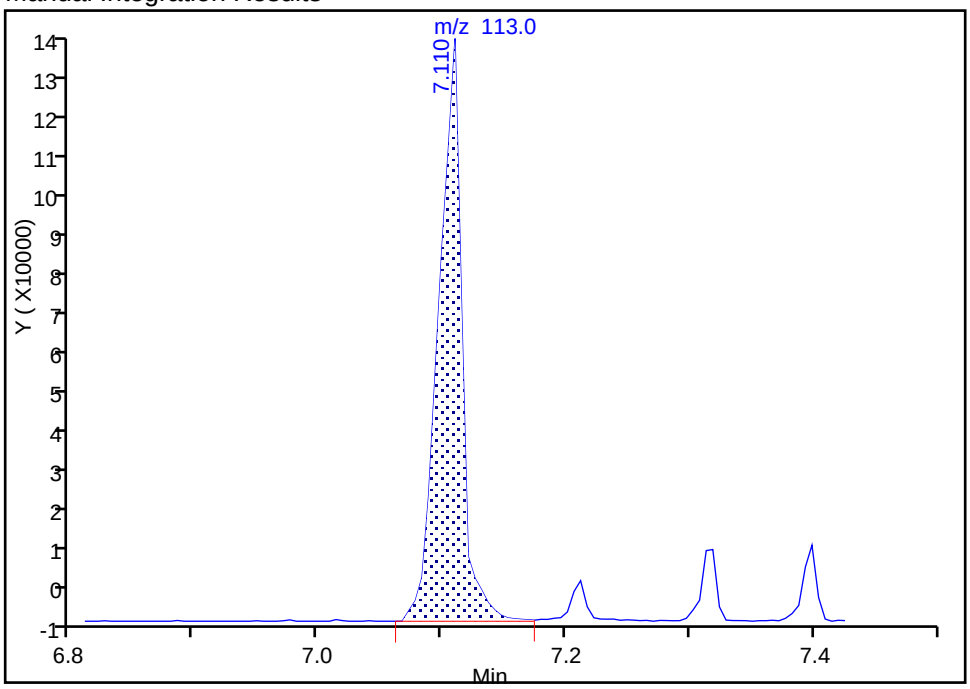
Processing Integration Results

RT: 7.11
Area: 169920
Amount: 8.636591
Amount Units: ng/uL



Manual Integration Results

RT: 7.11
Area: 171929
Amount: 7.832699
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:22:38
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

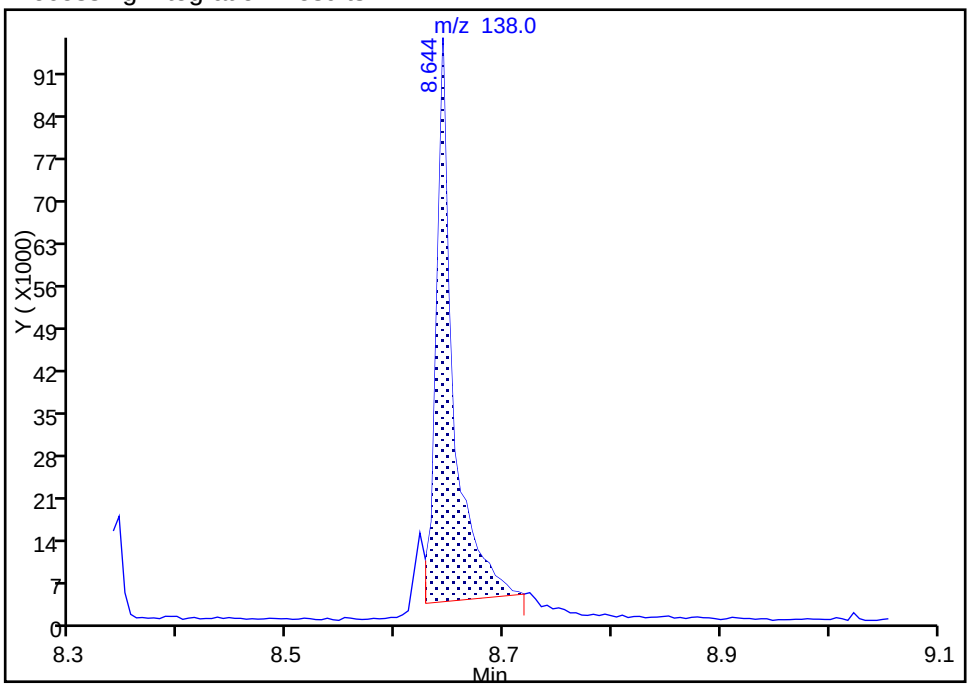
Data File:	\\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9937.D				
Injection Date:	14-Aug-2017 21:13:30	Instrument ID:	HP5973W		
Lims ID:	ICIS L1 4.0				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

125 4-Nitroaniline, CAS: 100-01-6

Signal: 1

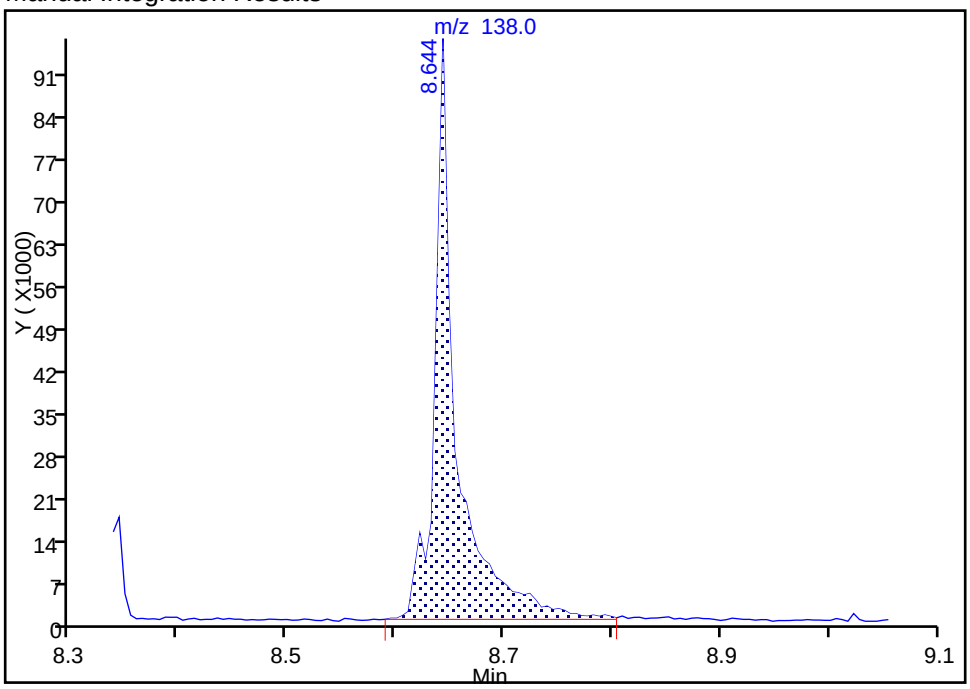
Processing Integration Results

RT: 8.64
Area: 102180
Amount: 3.627466
Amount Units: ng/uL



Manual Integration Results

RT: 8.64
Area: 135951
Amount: 3.865099
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:27:31

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

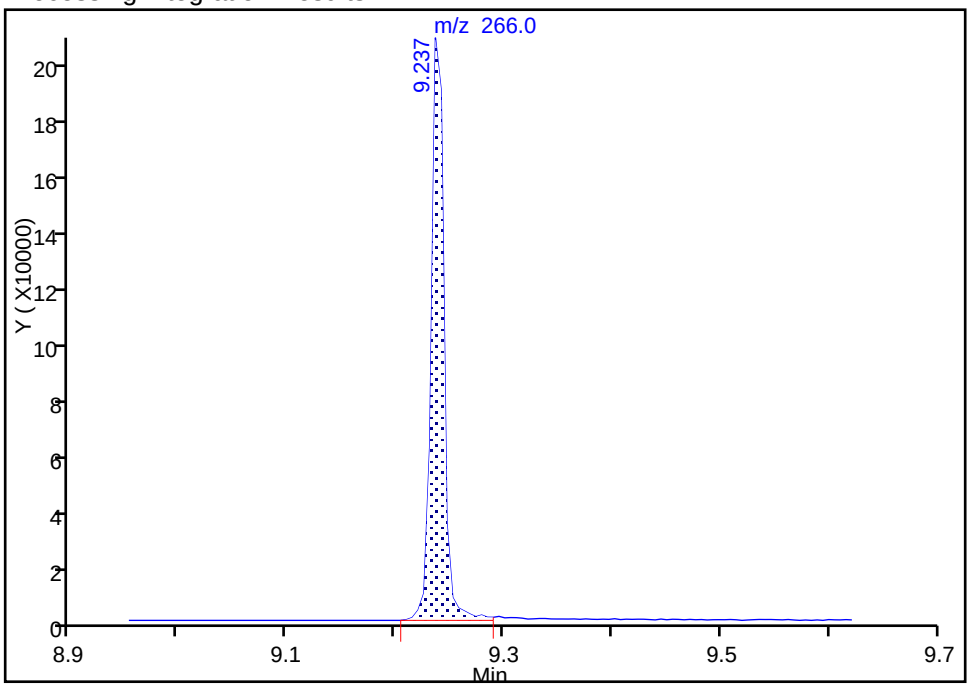
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9937.D
Injection Date: 14-Aug-2017 21:13:30 Instrument ID: HP5973W
Lims ID: ICIS L1 4.0
Client ID:
Operator ID: PJQ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

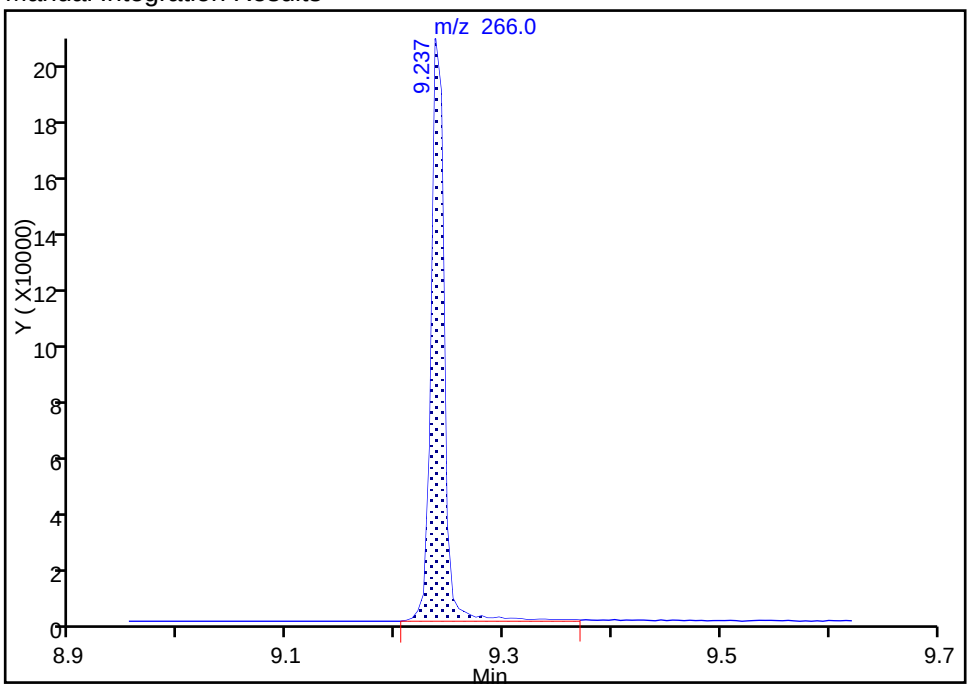
Processing Integration Results

RT: 9.24
Area: 168634
Amount: 7.827401
Amount Units: ng/uL



Manual Integration Results

RT: 9.24
Area: 171778
Amount: 7.385436
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:48:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

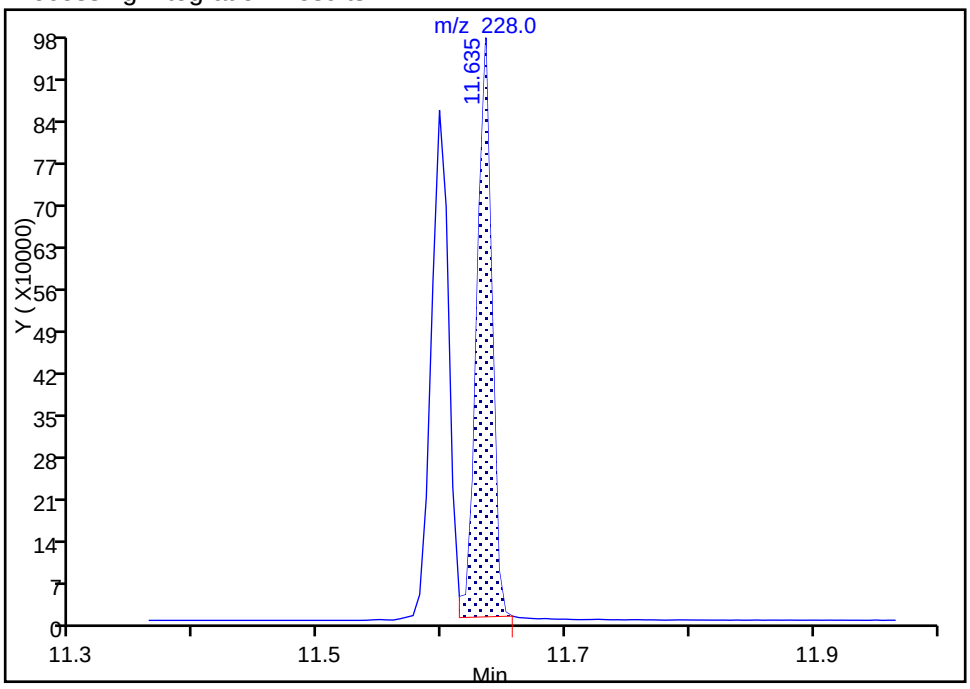
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9937.D
Injection Date: 14-Aug-2017 21:13:30 Instrument ID: HP5973W
Lims ID: ICIS L1 4.0
Client ID:
Operator ID: PJQ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

181 Chrysene, CAS: 218-01-9

Signal: 1

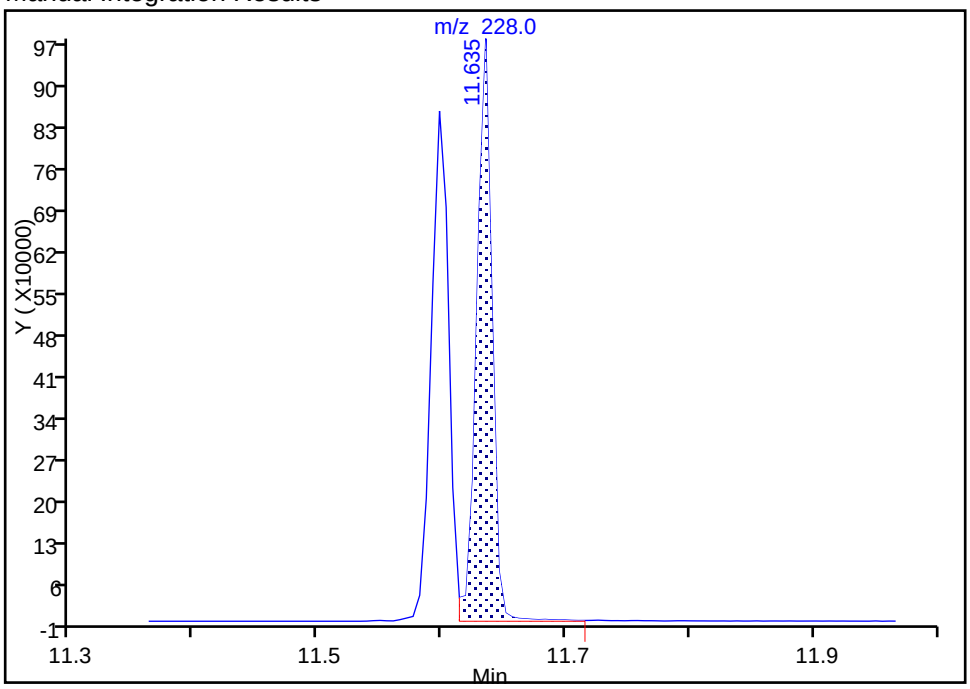
Processing Integration Results

RT: 11.64
Area: 818082
Amount: 3.941900
Amount Units: ng/uL



Manual Integration Results

RT: 11.64
Area: 844232
Amount: 4.051948
Amount Units: ng/uL



Reviewer: richardsd, 15-Aug-2017 18:09:23
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

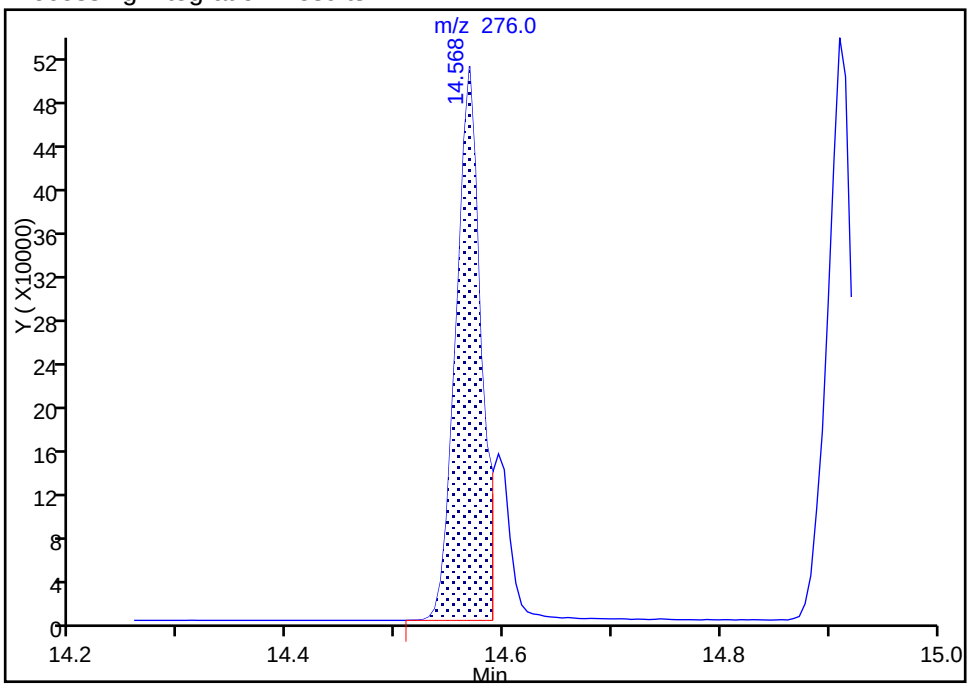
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9937.D
Injection Date: 14-Aug-2017 21:13:30 Instrument ID: HP5973W
Lims ID: ICIS L1 4.0
Client ID:
Operator ID: PJQ ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

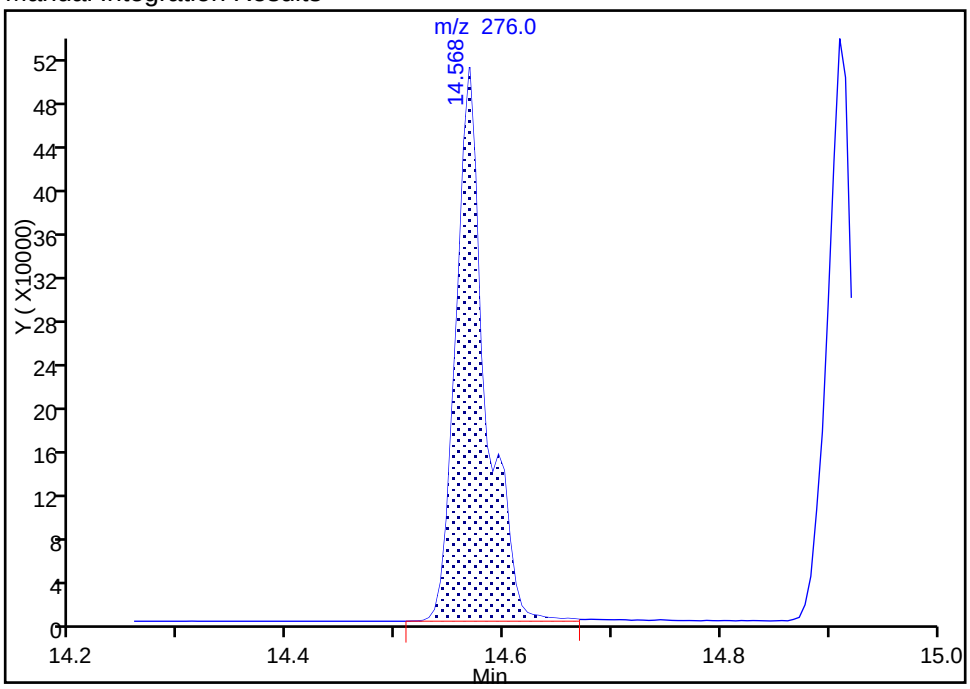
Processing Integration Results

RT: 14.57
Area: 823194
Amount: 3.649646
Amount Units: ng/uL



Manual Integration Results

RT: 14.57
Area: 968441
Amount: 3.931799
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:23:07
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9938.D
Lims ID: IC L1 8.0
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 14-Aug-2017 21:41:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064854-008
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 15-Aug-2017 18:11:42 Calib Date: 14-Aug-2017 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: quirkp Date: 15-Aug-2017 12:27:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.609	5.609	0.000	97	211113	4.00	4.00	
* 2 Naphthalene-d8	136	6.720	6.720	0.000	99	871844	4.00	4.00	
* 3 Acenaphthene-d10	164	8.179	8.173	0.006	96	417971	4.00	4.00	
* 4 Phenanthrene-d10	188	9.386	9.386	0.000	97	738603	4.00	4.00	
* 5 Chrysene-d12	240	11.614	11.608	0.006	97	756288	4.00	4.00	
* 6 Perylene-d12	264	13.216	13.217	0.000	98	691128	4.00	4.00	
$ 7 2-Fluorophenol	112	4.375	4.375	0.000	94	581573	8.00	8.27	
$ 8 Phenol-d5	99	5.321	5.315	0.006	93	713894	8.00	8.17	
$ 9 Nitrobenzene-d5	82	6.111	6.111	0.000	91	604317	8.00	8.03	
$ 10 2-Fluorobiphenyl	172	7.623	7.623	0.000	100	1250195	8.00	8.01	
$ 11 2,4,6-Tribromophenol	330	8.825	8.820	0.005	94	176703	8.00	7.93	
$ 12 p-Terphenyl-d14	244	10.690	10.690	0.000	99	1319152	8.00	8.19	
14 1,4-Dioxane	88	2.276	2.276	0.000	99	259368	8.00	8.25	
15 N-Nitrosodimethylamine	42	2.650	2.650	0.000	91	331695	8.00	7.96	
16 Pyridine	52	2.644	2.650	-0.006	89	1063060	16.0	16.6	
36 Benzaldehyde	77	5.219	5.214	0.005	93	934808	16.0	16.0	
37 Phenol	94	5.331	5.326	0.005	97	809512	8.00	8.17	
38 Aniline	93	5.326	5.326	0.000	88	912846	8.00	8.13	
40 Bis(2-chloroethyl)ether	93	5.395	5.390	0.005	96	633897	8.00	8.02	
41 2-Chlorophenol	128	5.427	5.428	-0.001	98	610491	8.00	8.26	
43 n-Decane	57	5.492	5.492	0.000	91	818340	8.00	8.06	
44 1,3-Dichlorobenzene	146	5.561	5.561	0.000	98	683506	8.00	8.07	
45 1,4-Dichlorobenzene	146	5.625	5.625	0.000	93	696916	8.00	8.03	
46 Benzyl alcohol	108	5.764	5.759	0.005	76	389314	8.00	8.14	
47 1,2-Dichlorobenzene	146	5.764	5.764	0.000	94	652736	8.00	7.98	
48 Indene	115	5.850	5.844	0.006	90	4819280	40.0	38.4	
49 2-Methylphenol	108	5.871	5.866	0.005	96	576984	8.00	8.29	
50 2,2'-oxybis[1-chloropropan	45	5.882	5.876	0.006	95	971798	8.00	7.99	
53 Acetophenone	105	5.988	5.983	0.005	97	822310	8.00	8.18	
55 N-Nitrosodi-n-propylamine	70	5.999	5.994	0.005	90	424965	8.00	8.15	
56 4-Methylphenol	108	6.010	6.004	0.006	96	581860	8.00	8.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.058	6.058	0.000	97	279763	8.00	8.17	
61 Nitrobenzene	77	6.127	6.127	0.000	90	608271	8.00	8.06	
63 Isophorone	82	6.341	6.336	0.005	99	1119942	8.00	8.14	
67 2-Nitrophenol	139	6.405	6.400	0.005	93	307347	8.00	7.91	
68 2,4-Dimethylphenol	107	6.459	6.453	0.006	95	592279	8.00	8.09	
71 Bis(2-chloroethoxy)methane	93	6.533	6.528	0.005	99	707503	8.00	7.89	
74 2,4-Dichlorophenol	162	6.613	6.608	0.005	94	497795	8.00	7.97	
72 Benzoic acid	105	6.667	6.619	0.048	86	1786769	40.0	39.1	M
75 1,2,4-Trichlorobenzene	180	6.678	6.678	0.000	94	586913	8.00	8.02	
76 Naphthalene	128	6.742	6.736	0.006	98	1707639	8.00	7.76	
78 4-Chloroaniline	127	6.795	6.790	0.005	96	704401	8.00	8.19	
79 2,6-Dichlorophenol	162	6.800	6.800	0.000	98	501363	8.00	8.20	
81 Hexachlorobutadiene	225	6.854	6.854	0.000	96	332787	8.00	7.88	
84 Caprolactam	113	7.142	7.110	0.032	79	360704	16.0	15.8	
87 4-Chloro-3-methylphenol	107	7.217	7.212	0.005	96	498431	8.00	8.23	
89 2-Methylnaphthalene	142	7.319	7.319	0.000	92	1182580	8.00	8.00	
91 1-Methylnaphthalene	142	7.399	7.399	0.000	93	1136401	8.00	7.96	
93 Hexachlorocyclopentadiene	237	7.458	7.458	0.000	96	385549	8.00	7.89	
92 1,2,4,5-Tetrachlorobenzene	216	7.463	7.458	0.005	96	558044	8.00	8.09	
94 2,4,6-Trichlorophenol	196	7.559	7.559	0.000	91	348363	8.00	7.86	
95 2,4,5-Trichlorophenol	196	7.591	7.591	0.000	94	353633	8.00	8.12	
97 1,1'-Biphenyl	154	7.703	7.703	0.000	96	1403380	8.00	7.93	
98 2-Chloronaphthalene	162	7.719	7.719	0.000	96	1093817	8.00	7.94	
100 2-Nitroaniline	65	7.810	7.805	0.005	87	305039	8.00	8.02	
104 Dimethyl phthalate	163	7.965	7.960	0.005	100	1177729	8.00	8.15	
105 1,3-Dinitrobenzene	168	7.986	7.981	0.005	92	178800	8.00	7.81	
106 2,6-Dinitrotoluene	165	8.008	8.002	0.006	96	270612	8.00	7.84	
107 Acenaphthylene	152	8.061	8.056	0.005	98	1526037	8.00	8.07	
108 3-Nitroaniline	138	8.147	8.141	0.006	95	274771	8.00	7.83	
109 Acenaphthene	153	8.205	8.200	0.005	94	1136298	8.00	7.93	
110 2,4-Dinitrophenol	184	8.232	8.227	0.005	87	281317	16.0	14.9	
111 4-Nitrophenol	109	8.302	8.296	0.006	91	282584	16.0	15.6	
113 2,4-Dinitrotoluene	165	8.339	8.334	0.005	95	351419	8.00	7.73	
114 Dibenzofuran	168	8.344	8.344	0.000	97	1446598	8.00	7.86	
117 2,3,4,6-Tetrachlorophenol	232	8.451	8.451	0.000	72	286453	8.00	7.78	
119 Diethyl phthalate	149	8.542	8.537	0.005	99	1123783	8.00	7.95	
120 Hexadecane	57	8.558	8.553	0.005	90	853338	8.00	7.90	
122 4-Chlorophenyl phenyl ethe	204	8.627	8.622	0.005	70	609443	8.00	8.03	
123 Fluorene	166	8.627	8.622	0.005	93	1217149	8.00	8.15	
125 4-Nitroaniline	138	8.654	8.644	0.010	89	288896	8.00	7.89	M
126 4,6-Dinitro-2-methylphenol	198	8.676	8.670	0.006	88	359492	16.0	19.5	
129 N-Nitrosodiphenylamine	169	8.724	8.724	0.000	62	847186	8.00	8.16	
128 Diphenylamine	169	8.724	8.724	0.000	94	847186	6.84	6.98	
130 1,2-Diphenylhydrazine	77	8.756	8.750	0.006	99	1145215	8.00	7.84	
131 Azobenzene	77	8.756	8.750	0.006	98	1145215	8.00	7.93	
137 4-Bromophenyl phenyl ether	248	9.023	9.023	0.000	66	342765	8.00	8.24	
138 Hexachlorobenzene	284	9.082	9.076	0.006	96	377044	8.00	8.16	
141 Atrazine	200	9.172	9.162	0.010	95	652809	16.0	16.1	
143 Pentachlorophenol	266	9.242	9.237	0.005	92	394664	16.0	16.0	M
146 n-Octadecane	57	9.306	9.306	0.000	93	833333	8.00	8.10	
149 Phenanthrene	178	9.407	9.407	0.000	98	1741124	8.00	8.02	
150 Anthracene	178	9.450	9.445	0.005	97	1777337	8.00	8.30	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	9.584	9.578	0.006	96	1193613	8.00	7.42	
154 Di-n-butyl phthalate	149	9.867	9.867	0.000	100	1840483	8.00	8.43	
161 Fluoranthene	202	10.380	10.374	0.006	98	1800393	8.00	8.26	
164 Benzidine	184	10.487	10.487	0.000	99	615474	8.00	9.44	
165 Pyrene	202	10.561	10.561	0.000	96	1811637	8.00	8.05	
172 Butyl benzyl phthalate	149	11.096	11.096	0.000	97	823901	8.00	8.11	
177 3,3'-Dichlorobenzidine	252	11.582	11.576	0.006	73	449935	8.00	8.98	
179 Benzo[a]anthracene	228	11.603	11.598	0.005	98	1792640	8.00	8.18	
180 Bis(2-ethylhexyl) phthalat	149	11.630	11.630	0.000	96	1224139	8.00	8.11	
181 Chrysene	228	11.641	11.635	0.005	97	1742968	8.00	8.02	
184 Di-n-octyl phthalate	149	12.319	12.319	0.000	99	2042022	8.00	8.17	
186 Benzo[b]fluoranthene	252	12.762	12.757	0.005	97	1723873	8.00	7.91	
187 Benzo[k]fluoranthene	252	12.794	12.789	0.005	98	1753590	8.00	8.10	
189 Benzo[a]pyrene	252	13.152	13.147	0.005	77	1656987	8.00	8.14	
193 Indeno[1,2,3-cd]pyrene	276	14.579	14.568	0.011	99	2062071	8.00	8.00	M
194 Dibenz(a,h)anthracene	278	14.611	14.595	0.016	94	1781205	8.00	8.05	
195 Benzo[g,h,i]perylene	276	14.926	14.910	0.016	98	1765762	8.00	8.07	
S 258 3-Methylphenol	1				0			8.16	
S 262 Total Cresols	1				0			16.4	
S 257 3 & 4 Methylphenol	108				0			8.16	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00267	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00133	Amount Added: 20.00	Units: uL	Run Reagent

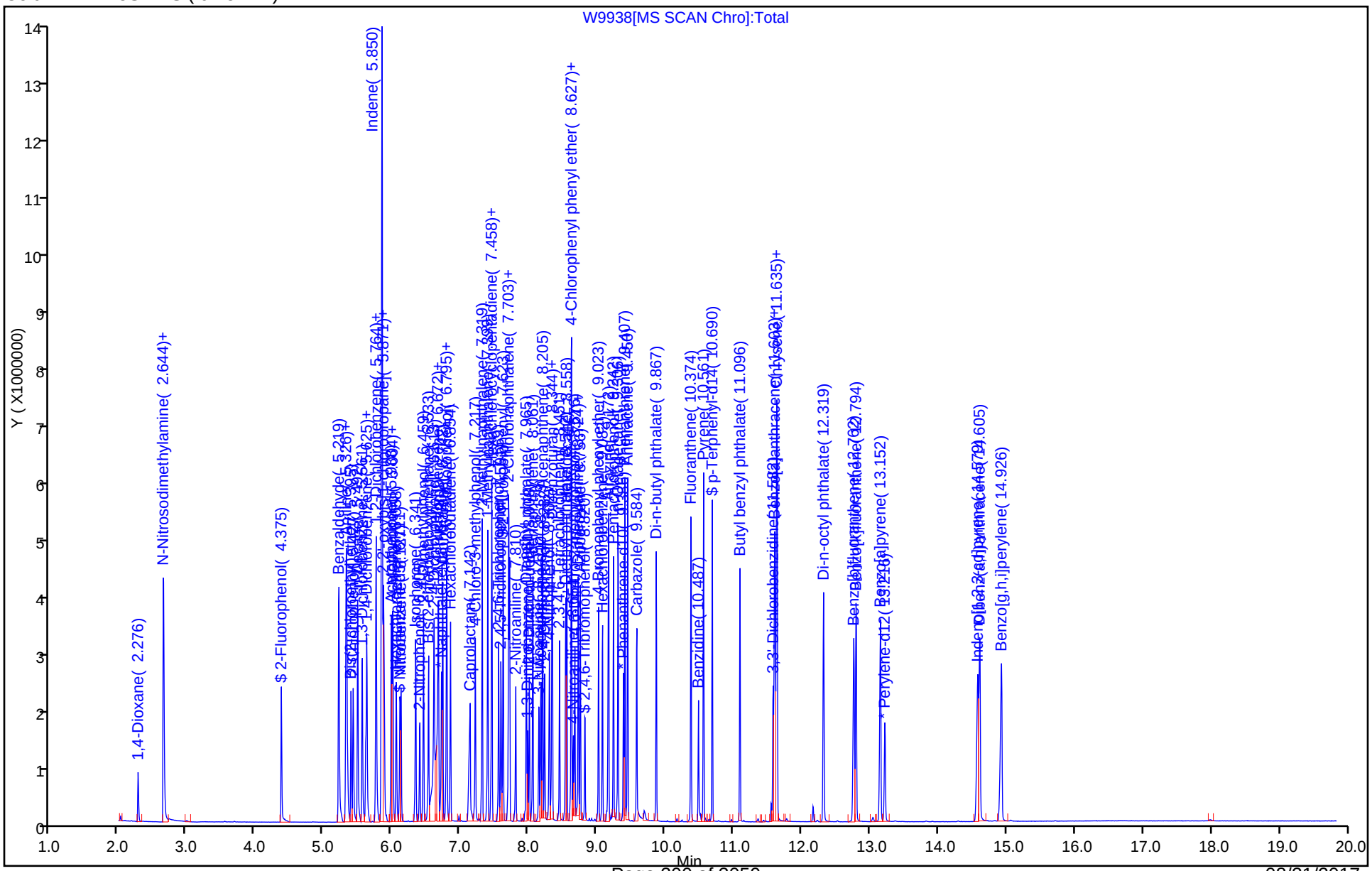
Report Date: 15-Aug-2017 18:11:43 Chrom Revision: 2.2 08-Aug-2017 17:51:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9938.D

Injection Date:	14-Aug-2017 21:41:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 8.0			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

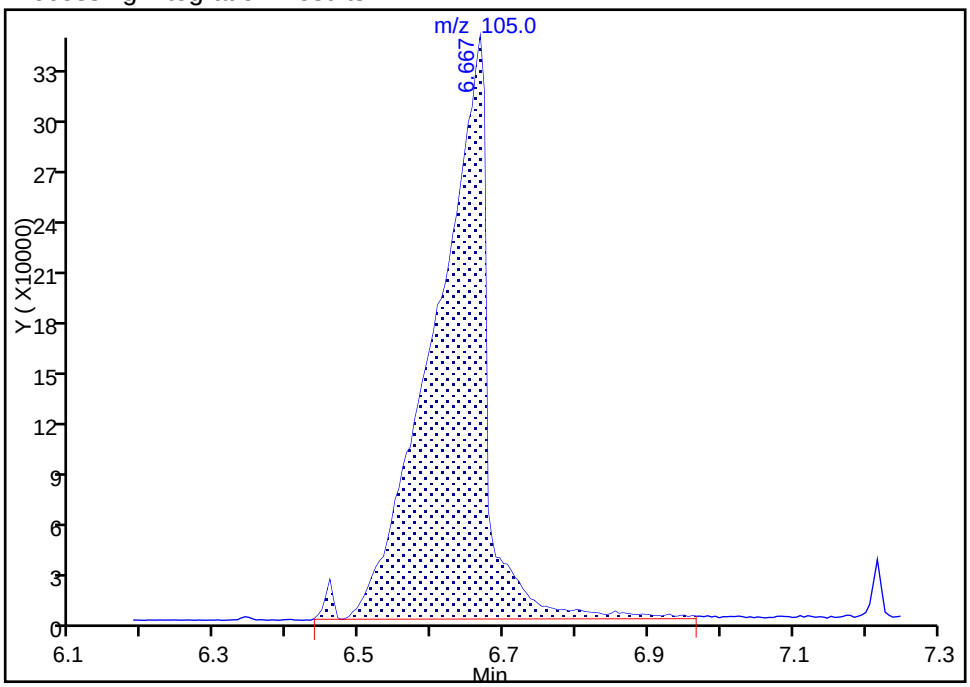
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9938.D
Injection Date: 14-Aug-2017 21:41:30 Instrument ID: HP5973W
Lims ID: IC L1 8.0
Client ID:
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

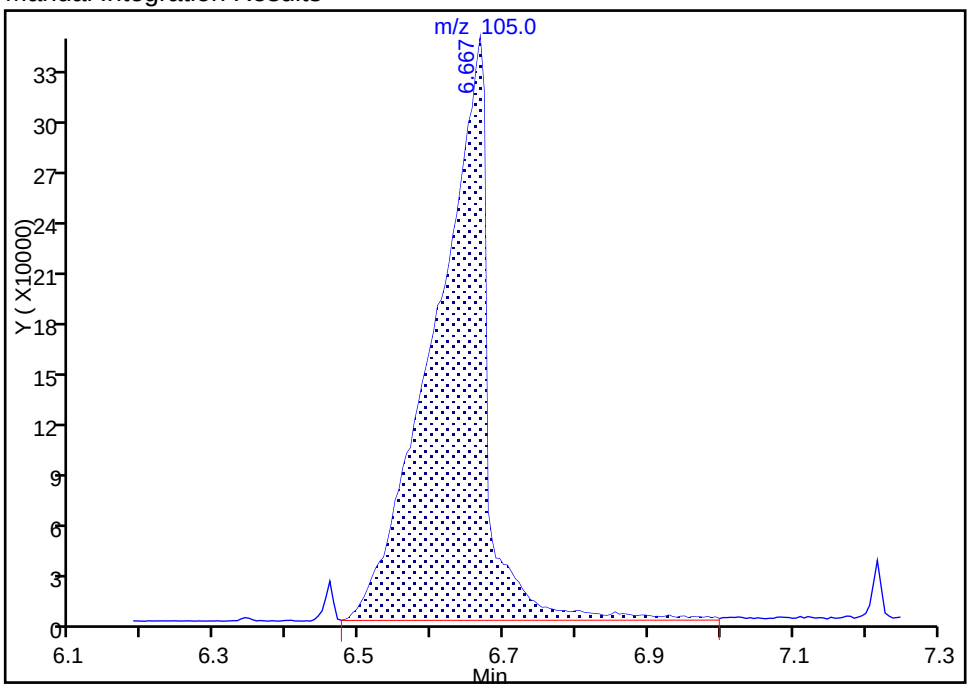
Processing Integration Results

RT: 6.67
Area: 1794062
Amount: 52.412301
Amount Units: ng/uL



Manual Integration Results

RT: 6.67
Area: 1786769
Amount: 39.086415
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:30:57
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

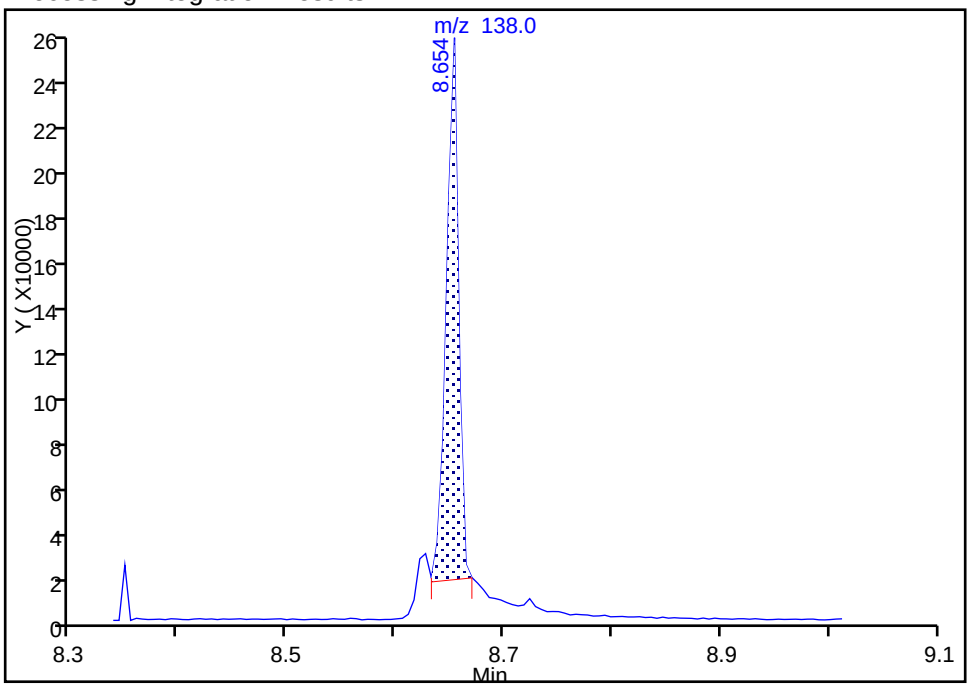
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9938.D
Injection Date: 14-Aug-2017 21:41:30 Instrument ID: HP5973W
Lims ID: IC L1 8.0
Client ID:
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

125 4-Nitroaniline, CAS: 100-01-6

Signal: 1

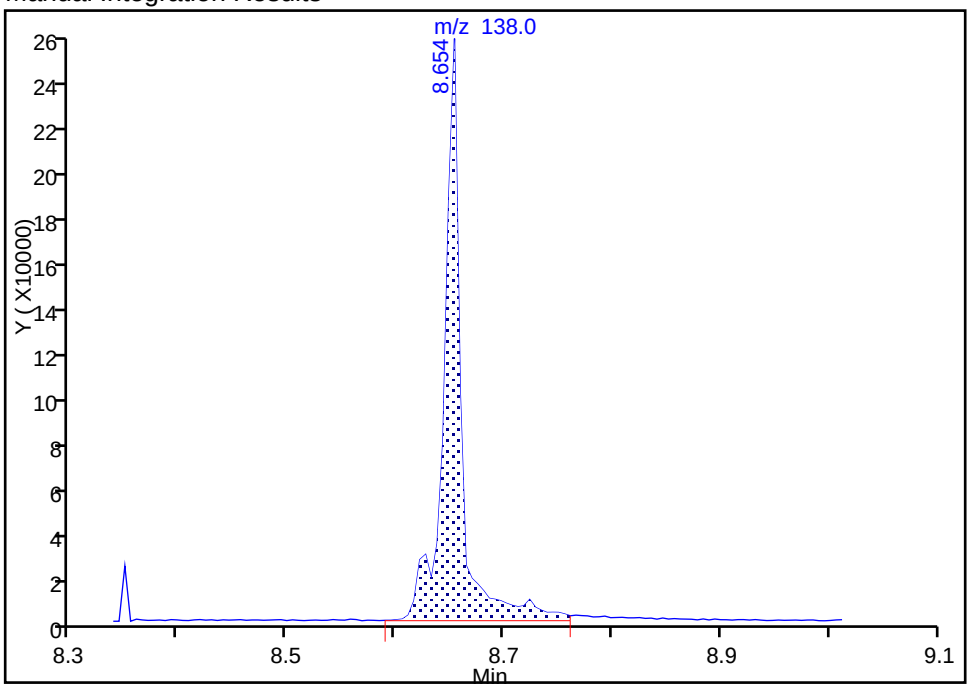
Processing Integration Results

RT: 8.65
Area: 183971
Amount: 6.107168
Amount Units: ng/uL



Manual Integration Results

RT: 8.65
Area: 288896
Amount: 7.893381
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:27:53
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

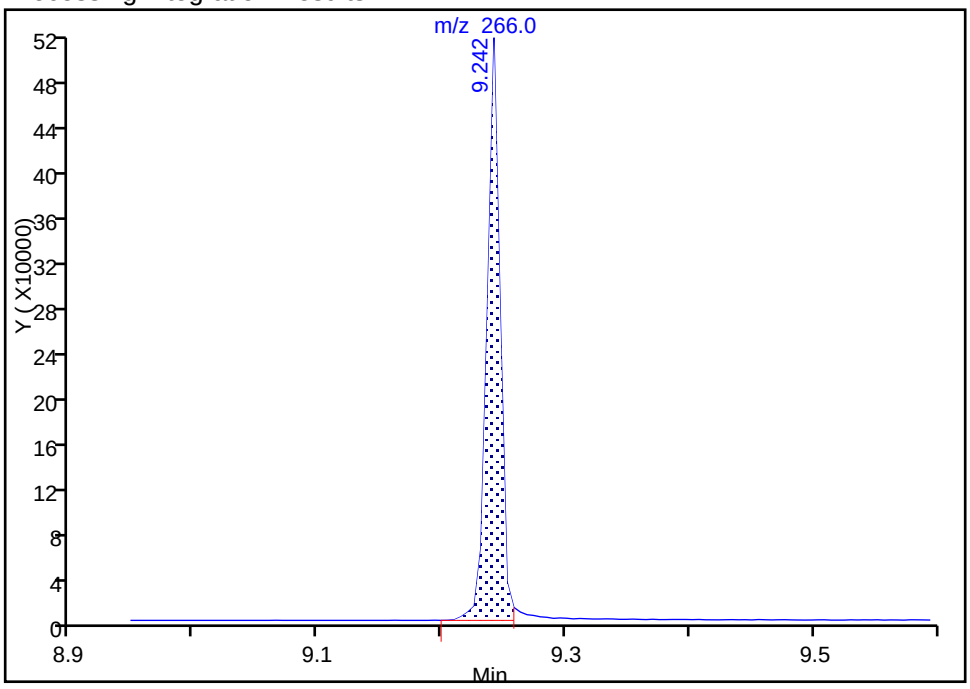
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9938.D
Injection Date: 14-Aug-2017 21:41:30 Instrument ID: HP5973W
Lims ID: IC L1 8.0
Client ID:
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

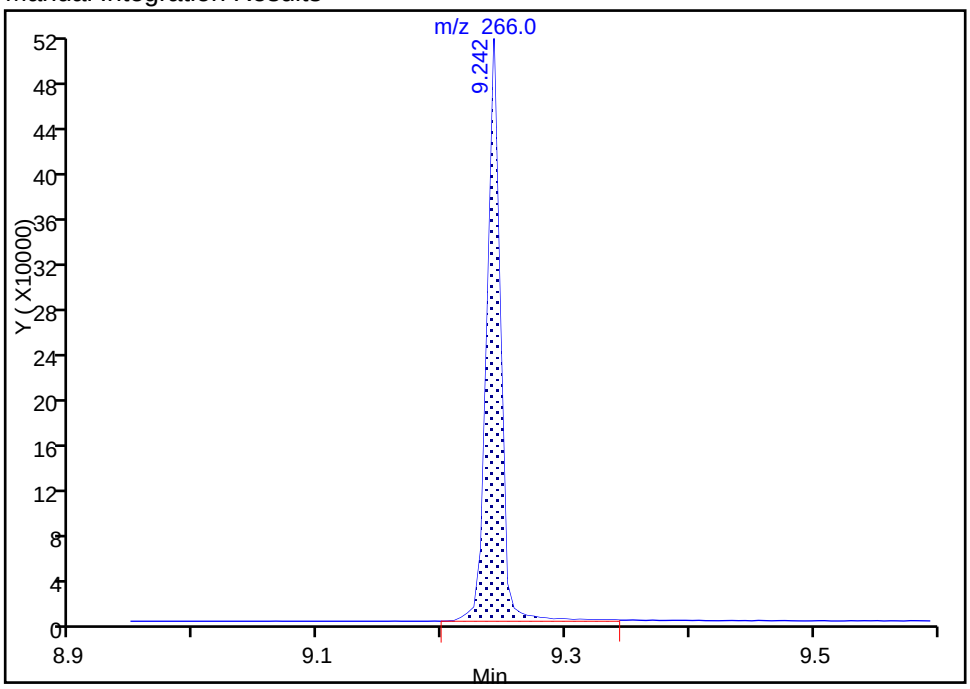
Processing Integration Results

RT: 9.24
Area: 382100
Amount: 16.799210
Amount Units: ng/uL



Manual Integration Results

RT: 9.24
Area: 394664
Amount: 16.042582
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:48:01
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

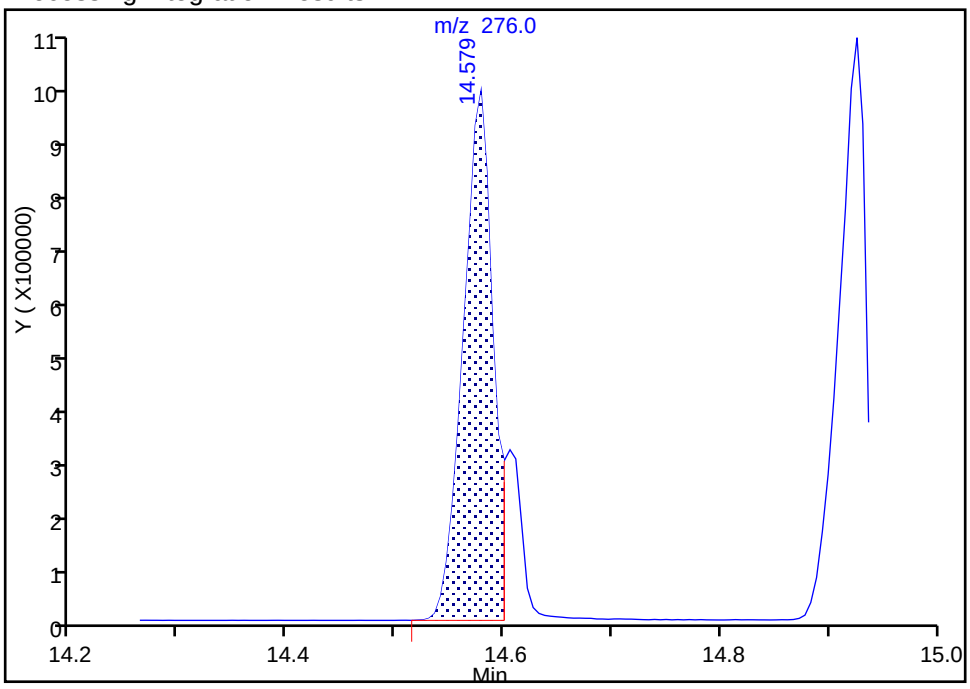
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9938.D
Injection Date: 14-Aug-2017 21:41:30 Instrument ID: HP5973W
Lims ID: IC L1 8.0
Client ID:
Operator ID: PJQ ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

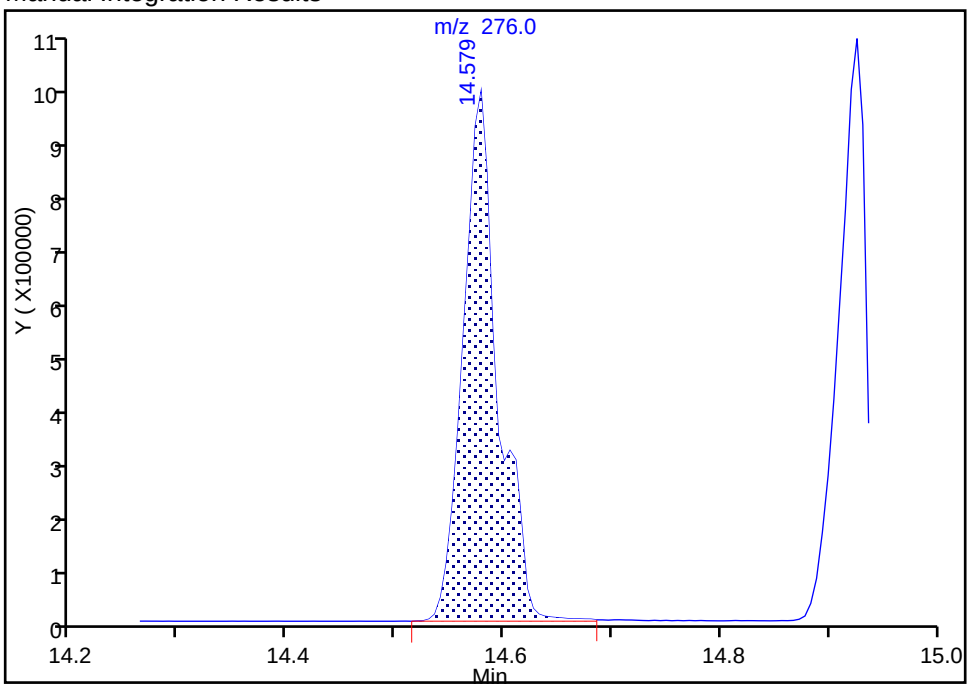
Processing Integration Results

RT: 14.58
Area: 1779301
Amount: 8.041845
Amount Units: ng/uL



Manual Integration Results

RT: 14.58
Area: 2062071
Amount: 8.000668
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:40:11
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9939.D
Lims ID: IC L1 12.0
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 14-Aug-2017 22:10:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064854-009
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 15-Aug-2017 18:11:46 Calib Date: 14-Aug-2017 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: quirkp Date: 15-Aug-2017 12:28:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.614	5.609	0.005	96	220896	4.00	4.00	
* 2 Naphthalene-d8	136	6.726	6.720	0.006	99	913925	4.00	4.00	
* 3 Acenaphthene-d10	164	8.179	8.173	0.006	96	430801	4.00	4.00	
* 4 Phenanthrene-d10	188	9.391	9.386	0.005	97	778891	4.00	4.00	
* 5 Chrysene-d12	240	11.614	11.608	0.006	97	790394	4.00	4.00	
* 6 Perylene-d12	264	13.222	13.217	0.006	98	733418	4.00	4.00	
$ 7 2-Fluorophenol	112	4.375	4.375	0.000	94	900200	12.0	12.2	
$ 8 Phenol-d5	99	5.326	5.315	0.011	93	1094293	12.0	12.0	
$ 9 Nitrobenzene-d5	82	6.117	6.111	0.006	90	945077	12.0	12.0	
$ 10 2-Fluorobiphenyl	172	7.629	7.623	0.005	99	1922836	12.0	12.0	
$ 11 2,4,6-Tribromophenol	330	8.825	8.820	0.005	93	282541	12.0	12.0	
$ 12 p-Terphenyl-d14	244	10.690	10.690	0.000	99	2079267	12.0	12.4	
14 1,4-Dioxane	88	2.276	2.276	0.000	99	390605	12.0	11.9	
16 Pyridine	52	2.650	2.650	0.000	89	1598774	24.0	23.9	
15 N-Nitrosodimethylamine	42	2.655	2.650	0.005	93	500281	12.0	11.5	
36 Benzaldehyde	77	5.219	5.214	0.005	93	1367605	24.0	22.4	
38 Aniline	93	5.331	5.326	0.005	91	1420134	12.0	12.1	
37 Phenol	94	5.337	5.326	0.011	97	1248389	12.0	12.0	
40 Bis(2-chloroethyl)ether	93	5.401	5.390	0.011	96	962298	12.0	11.6	
41 2-Chlorophenol	128	5.433	5.428	0.005	97	945082	12.0	12.2	
43 n-Decane	57	5.497	5.492	0.005	90	1246892	12.0	11.7	
44 1,3-Dichlorobenzene	146	5.561	5.561	0.000	98	1057316	12.0	11.9	
45 1,4-Dichlorobenzene	146	5.631	5.625	0.005	96	1068109	12.0	11.8	
46 Benzyl alcohol	108	5.769	5.759	0.010	95	605988	12.0	12.1	
47 1,2-Dichlorobenzene	146	5.764	5.764	0.000	97	1000248	12.0	11.7	
48 Indene	115	5.855	5.844	0.011	91	6556817	60.0	49.8	
49 2-Methylphenol	108	5.871	5.866	0.005	96	888858	12.0	12.2	
50 2,2'-oxybis[1-chloropropan	45	5.882	5.876	0.006	95	1467928	12.0	11.5	
53 Acetophenone	105	5.988	5.983	0.005	97	1262824	12.0	12.0	
55 N-Nitrosodi-n-propylamine	70	6.004	5.994	0.010	90	653980	12.0	12.0	
56 4-Methylphenol	108	6.015	6.004	0.011	96	904486	12.0	12.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.058	6.058	0.000	97	428581	12.0	12.0	
61 Nitrobenzene	77	6.133	6.127	0.006	89	941492	12.0	11.9	
63 Isophorone	82	6.346	6.336	0.010	99	1723400	12.0	12.0	
67 2-Nitrophenol	139	6.405	6.400	0.005	93	495722	12.0	12.1	
68 2,4-Dimethylphenol	107	6.464	6.453	0.011	95	916965	12.0	11.9	
71 Bis(2-chloroethoxy)methane	93	6.533	6.528	0.005	99	1092055	12.0	11.6	
74 2,4-Dichlorophenol	162	6.613	6.608	0.005	94	782066	12.0	11.9	
72 Benzoic acid	105	6.704	6.619	0.085	88	2972338	60.0	60.0	M
75 1,2,4-Trichlorobenzene	180	6.678	6.678	0.000	93	912491	12.0	11.9	
76 Naphthalene	128	6.742	6.736	0.006	98	2596710	12.0	11.3	
78 4-Chloroaniline	127	6.800	6.790	0.010	97	1079773	12.0	12.0	
79 2,6-Dichlorophenol	162	6.806	6.800	0.006	98	782916	12.0	12.2	
81 Hexachlorobutadiene	225	6.854	6.854	0.000	96	526748	12.0	11.9	
84 Caprolactam	113	7.164	7.110	0.054	78	589359	24.0	24.4	M
87 4-Chloro-3-methylphenol	107	7.222	7.212	0.010	96	751028	12.0	11.8	
89 2-Methylnaphthalene	142	7.319	7.319	0.000	92	1812561	12.0	11.7	
91 1-Methylnaphthalene	142	7.404	7.399	0.005	93	1764309	12.0	11.8	
92 1,2,4,5-Tetrachlorobenzene	216	7.463	7.458	0.005	96	868589	12.0	12.2	
93 Hexachlorocyclopentadiene	237	7.458	7.458	0.000	95	613507	12.0	12.1	
94 2,4,6-Trichlorophenol	196	7.564	7.559	0.005	90	540397	12.0	11.8	
95 2,4,5-Trichlorophenol	196	7.596	7.591	0.005	93	561303	12.0	12.5	
97 1,1'-Biphenyl	154	7.709	7.703	0.006	96	2138505	12.0	11.7	
98 2-Chloronaphthalene	162	7.725	7.719	0.006	96	1694098	12.0	11.9	
100 2-Nitroaniline	65	7.815	7.805	0.010	87	478616	12.0	12.2	
104 Dimethyl phthalate	163	7.970	7.960	0.010	99	1753202	12.0	11.8	
105 1,3-Dinitrobenzene	168	7.992	7.981	0.011	95	295515	12.0	12.2	
106 2,6-Dinitrotoluene	165	8.013	8.002	0.011	96	434609	12.0	12.1	
107 Acenaphthylene	152	8.061	8.056	0.005	98	2362868	12.0	12.1	
108 3-Nitroaniline	138	8.152	8.141	0.011	96	437939	12.0	12.0	
109 Acenaphthene	153	8.205	8.200	0.005	94	1747764	12.0	11.8	
110 2,4-Dinitrophenol	184	8.238	8.227	0.011	87	490128	24.0	24.1	
111 4-Nitrophenol	109	8.312	8.296	0.016	88	459732	24.0	24.3	
113 2,4-Dinitrotoluene	165	8.344	8.334	0.010	93	575323	12.0	12.2	
114 Dibenzofuran	168	8.350	8.344	0.006	96	2212552	12.0	11.7	
117 2,3,4,6-Tetrachlorophenol	232	8.457	8.451	0.006	72	456561	12.0	11.9	
119 Diethyl phthalate	149	8.547	8.537	0.010	99	1757637	12.0	12.1	
120 Hexadecane	57	8.558	8.553	0.005	90	1285335	12.0	11.5	
123 Fluorene	166	8.628	8.622	0.006	92	1833903	12.0	11.9	
122 4-Chlorophenyl phenyl ethe	204	8.628	8.622	0.006	73	936853	12.0	12.0	
125 4-Nitroaniline	138	8.660	8.644	0.016	89	460440	12.0	12.1	M
126 4,6-Dinitro-2-methylphenol	198	8.681	8.670	0.011	89	611947	24.0	31.5	
128 Diphenylamine	169	8.729	8.724	0.005	93	1324880	10.3	10.3	
129 N-Nitrosodiphenylamine	169	8.729	8.724	0.005	73	1324880	12.0	12.1	
131 Azobenzene	77	8.756	8.750	0.006	97	1760315	12.0	11.6	
130 1,2-Diphenylhydrazine	77	8.756	8.750	0.006	98	1760315	12.0	11.7	
137 4-Bromophenyl phenyl ether	248	9.023	9.023	0.000	64	536992	12.0	12.2	
138 Hexachlorobenzene	284	9.082	9.076	0.006	95	600380	12.0	12.3	
141 Atrazine	200	9.178	9.162	0.016	95	1001412	24.0	23.9	
143 Pentachlorophenol	266	9.247	9.237	0.010	92	659440	24.0	25.2	M
146 n-Octadecane	57	9.311	9.306	0.005	93	1273290	12.0	11.7	
149 Phenanthrene	178	9.413	9.407	0.006	97	2660528	12.0	11.6	
150 Anthracene	178	9.450	9.445	0.005	98	2722013	12.0	12.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	9.584	9.578	0.006	96	1924757	12.0	11.3	
154 Di-n-butyl phthalate	149	9.872	9.867	0.005	100	2793128	12.0	12.1	
161 Fluoranthene	202	10.380	10.374	0.006	98	2781569	12.0	12.1	
164 Benzidine	184	10.492	10.487	0.005	99	1125154	12.0	16.5	
165 Pyrene	202	10.567	10.561	0.006	96	2809882	12.0	12.0	
172 Butyl benzyl phthalate	149	11.096	11.096	0.000	97	1291192	12.0	12.1	
177 3,3'-Dichlorobenzidine	252	11.582	11.576	0.006	73	817664	12.0	15.6	
179 Benzo[a]anthracene	228	11.603	11.598	0.005	98	2866442	12.0	12.5	
180 Bis(2-ethylhexyl) phthalat	149	11.635	11.630	0.005	94	1903335	12.0	12.0	
181 Chrysene	228	11.646	11.635	0.011	97	2665071	12.0	11.7	
184 Di-n-octyl phthalate	149	12.324	12.319	0.005	99	3181195	12.0	12.1	
186 Benzo[b]fluoranthene	252	12.768	12.757	0.011	97	2783498	12.0	12.0	
187 Benzo[k]fluoranthene	252	12.805	12.789	0.016	99	2814576	12.0	12.2	
189 Benzo[a]pyrene	252	13.158	13.147	0.011	77	2602566	12.0	12.0	
193 Indeno[1,2,3-cd]pyrene	276	14.589	14.568	0.021	98	3327296	12.0	12.1	M
194 Dibenz(a,h)anthracene	278	14.621	14.595	0.026	94	2834040	12.0	12.0	
195 Benzo[g,h,i]perylene	276	14.937	14.910	0.027	98	2788623	12.0	12.0	
S 257 3 & 4 Methylphenol	108				0			12.1	
S 258 3-Methylphenol	1				0			12.1	
S 262 Total Cresols	1				0			24.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00268	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00133	Amount Added: 20.00	Units: uL	Run Reagent

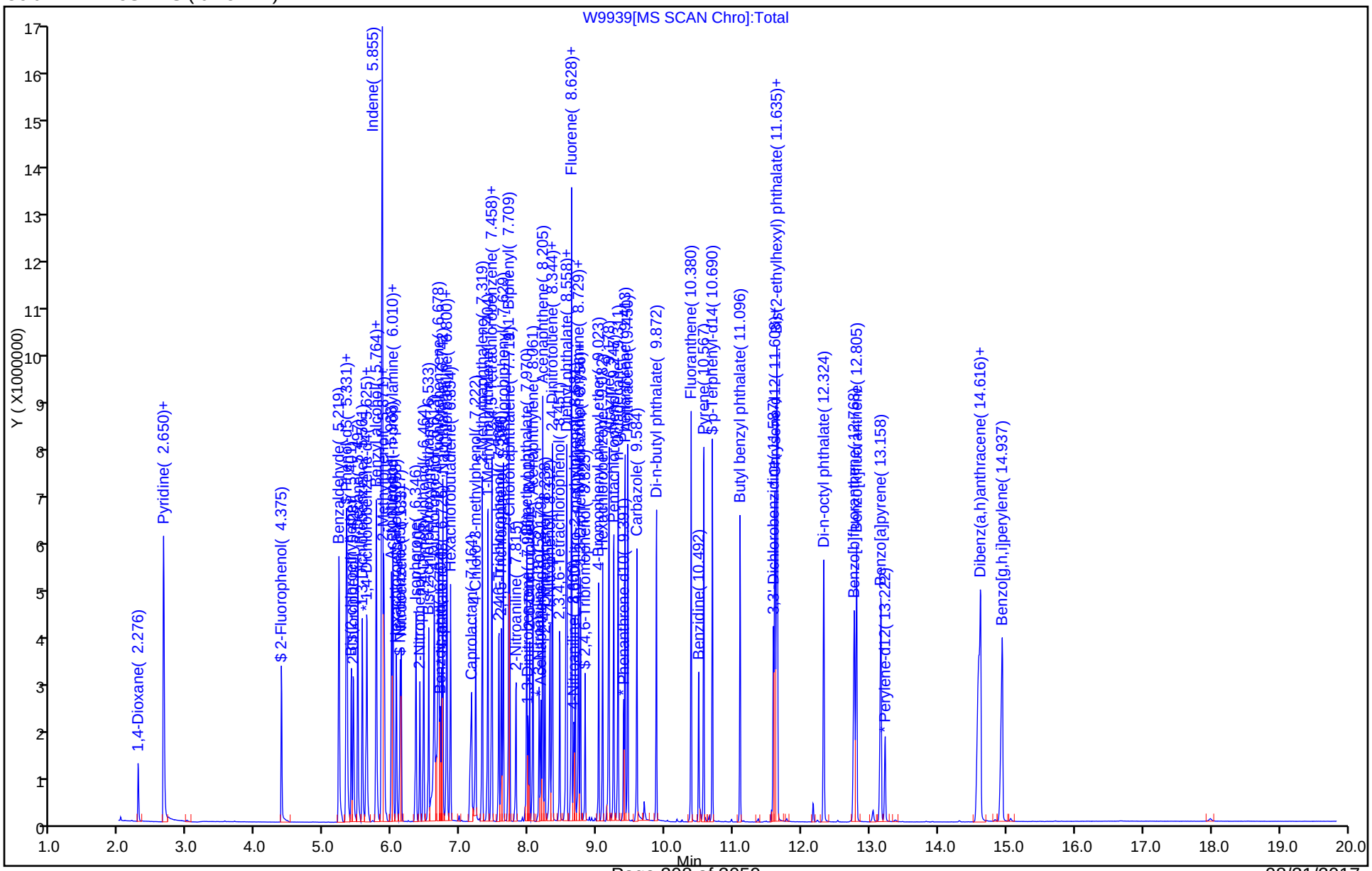
Report Date: 15-Aug-2017 18:11:47 Chrom Revision: 2.2 08-Aug-2017 17:51:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9939.D

Injection Date:	14-Aug-2017 22:10:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 12.0			Worklist Smp#:	9
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

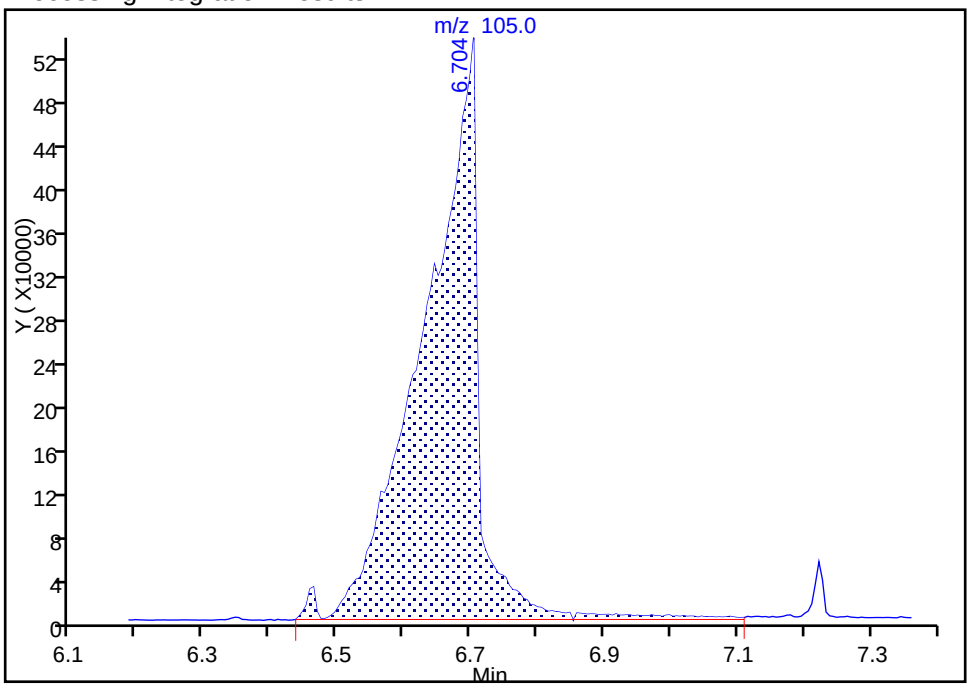
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9939.D
Injection Date: 14-Aug-2017 22:10:30 Instrument ID: HP5973W
Lims ID: IC L1 12.0
Client ID:
Operator ID: PJQ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

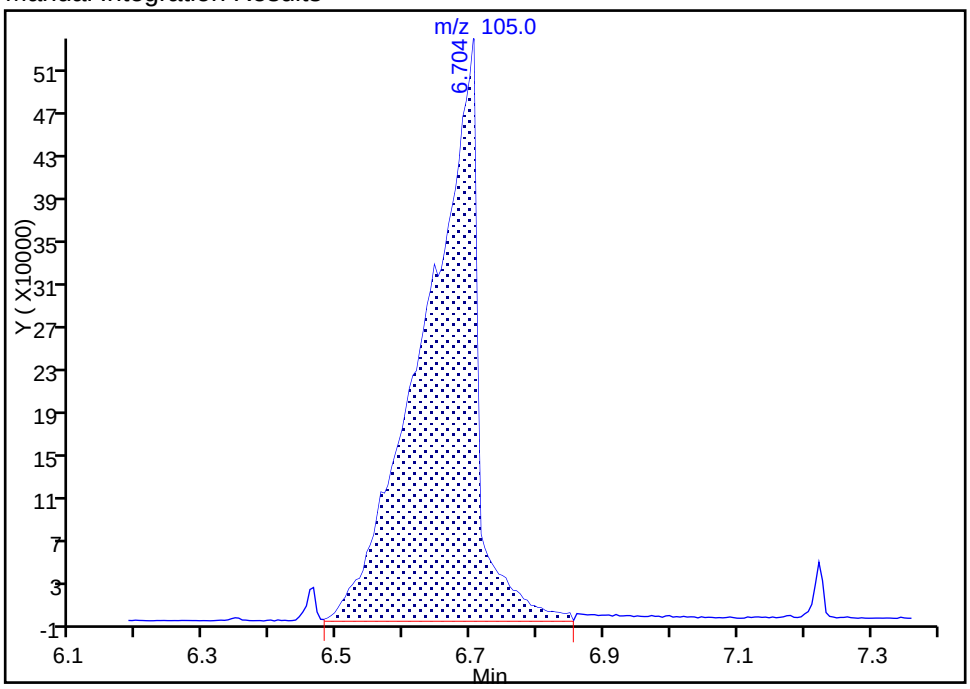
Processing Integration Results

RT: 6.70
Area: 3027953
Amount: 84.076261
Amount Units: ng/uL



Manual Integration Results

RT: 6.70
Area: 2972338
Amount: 59.993299
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:30:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

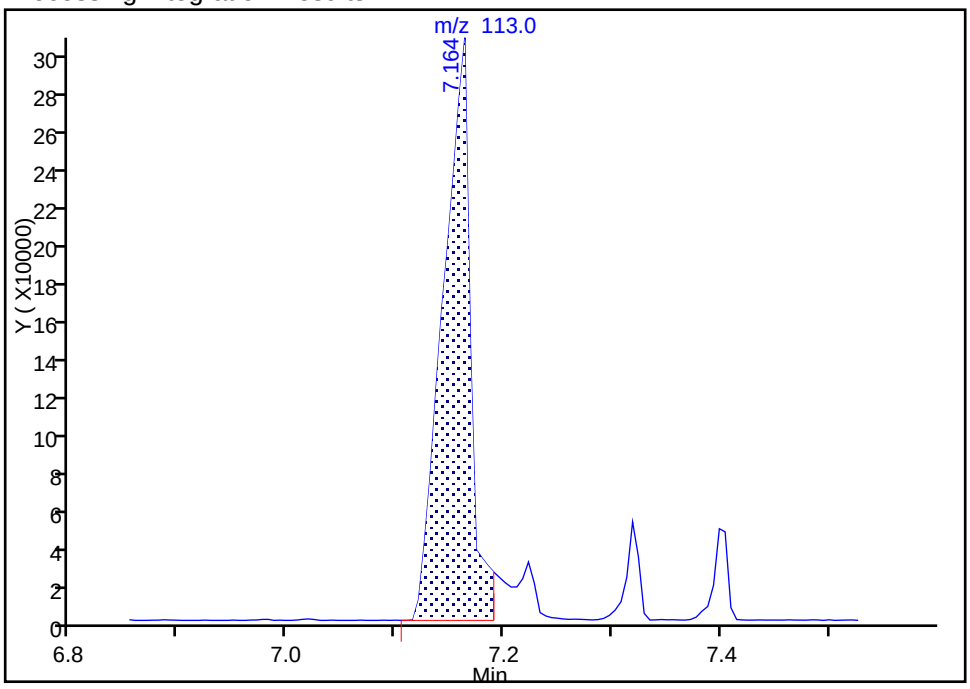
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9939.D
Injection Date: 14-Aug-2017 22:10:30 Instrument ID: HP5973W
Lims ID: IC L1 12.0
Client ID:
Operator ID: PJQ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

84 Caprolactam, CAS: 105-60-2

Signal: 1

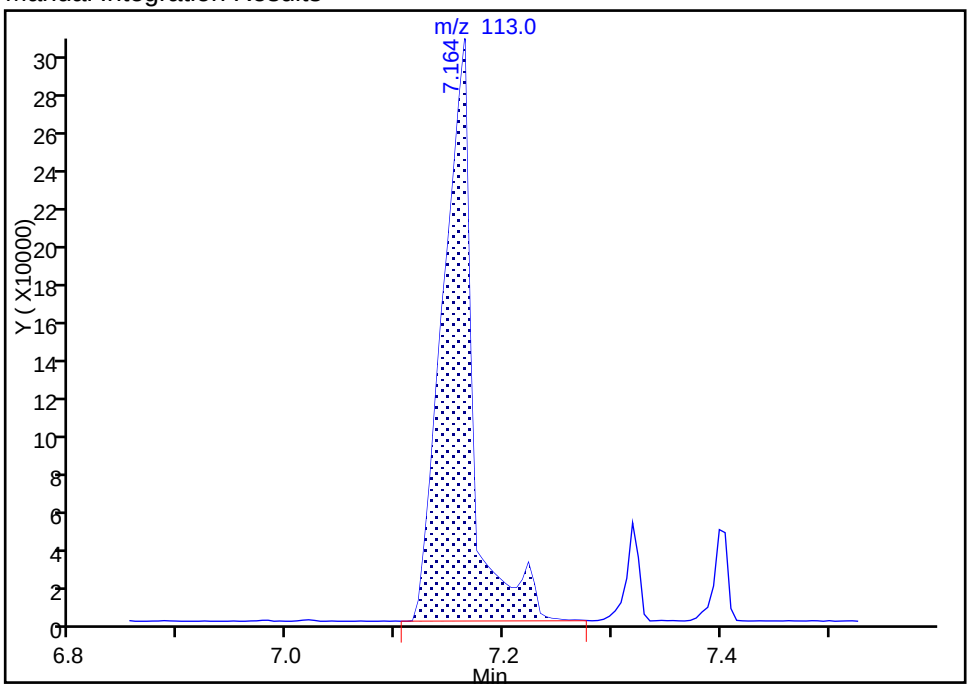
Processing Integration Results

RT: 7.16
Area: 539436
Amount: 24.904342
Amount Units: ng/uL



Manual Integration Results

RT: 7.16
Area: 589359
Amount: 24.436628
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:41:57
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

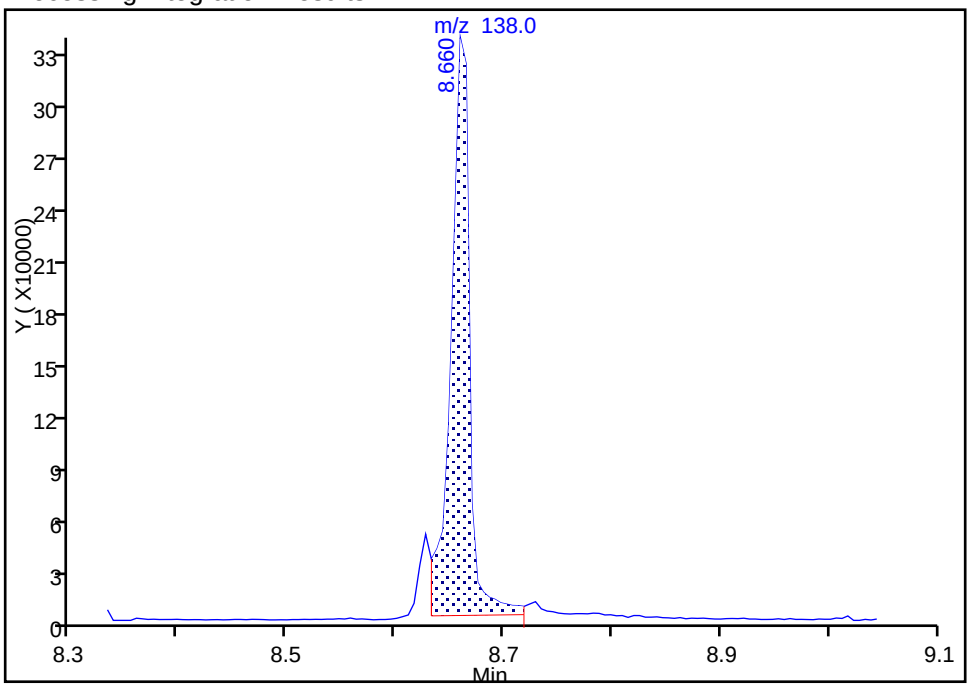
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9939.D
Injection Date: 14-Aug-2017 22:10:30 Instrument ID: HP5973W
Lims ID: IC L1 12.0
Client ID:
Operator ID: PJQ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

125 4-Nitroaniline, CAS: 100-01-6

Signal: 1

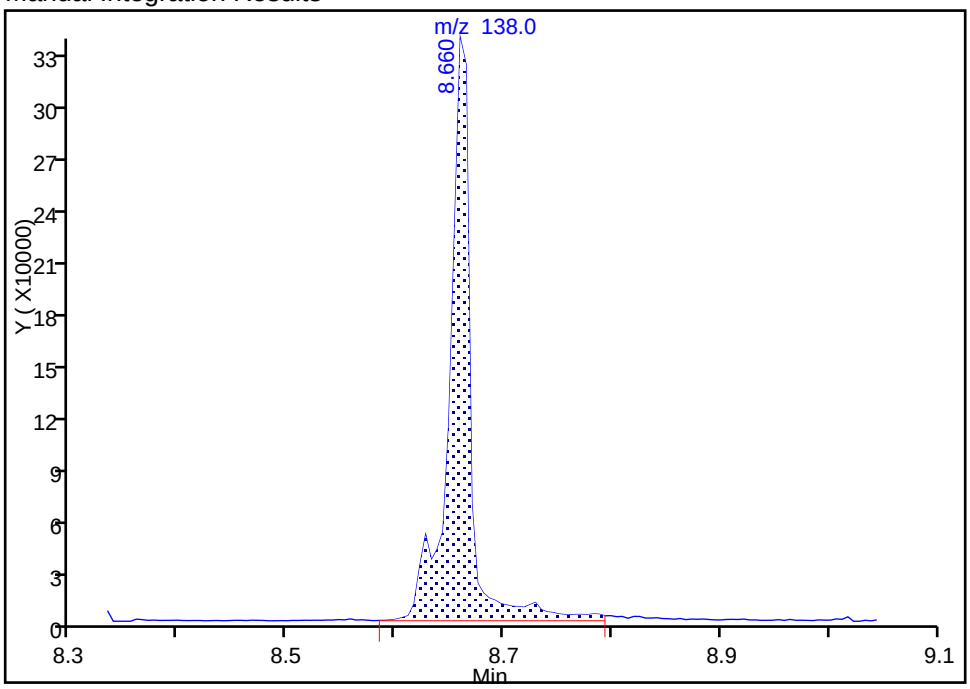
Processing Integration Results

RT: 8.66
Area: 394249
Amount: 11.694085
Amount Units: ng/uL



Manual Integration Results

RT: 8.66
Area: 460440
Amount: 12.146796
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:28:25
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

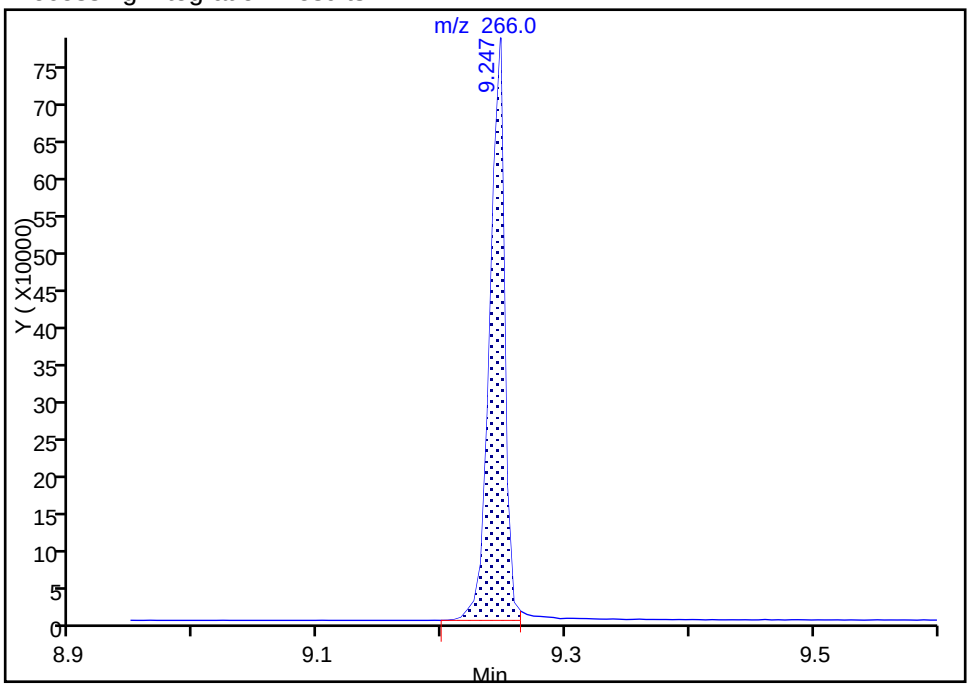
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9939.D
Injection Date: 14-Aug-2017 22:10:30 Instrument ID: HP5973W
Lims ID: IC L1 12.0
Client ID:
Operator ID: PJQ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

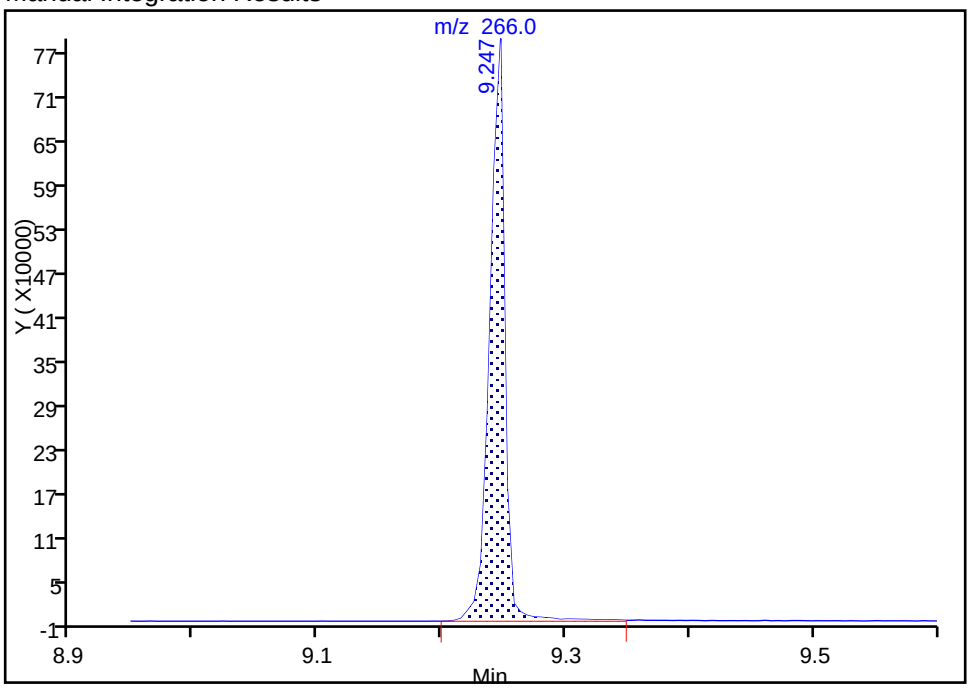
Processing Integration Results

RT: 9.25
Area: 642950
Amount: 26.560297
Amount Units: ng/uL



Manual Integration Results

RT: 9.25
Area: 659440
Amount: 25.160829
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:47:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

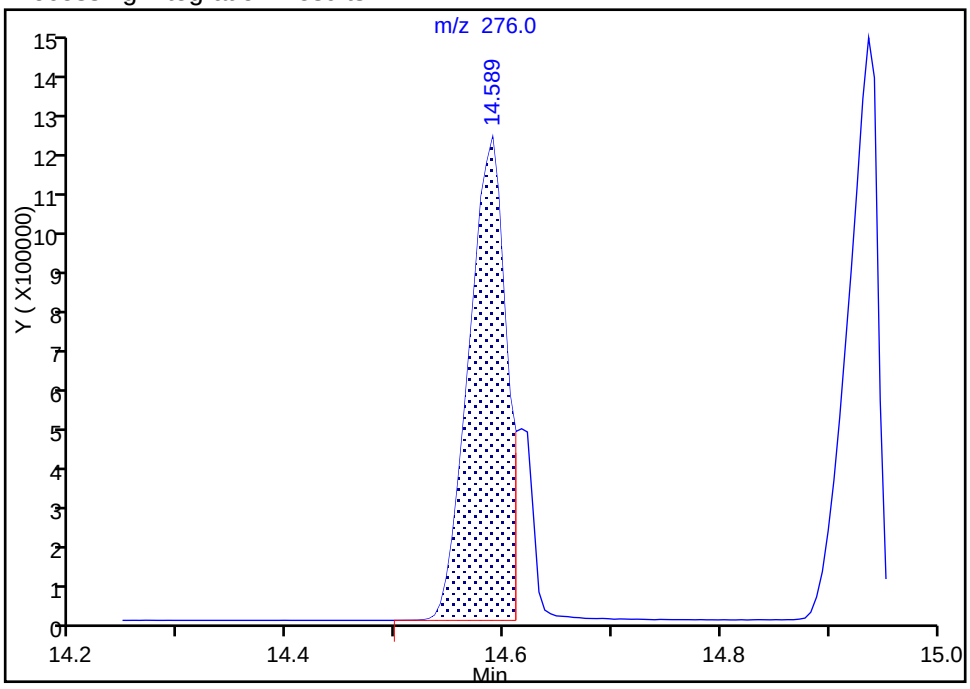
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9939.D
Injection Date: 14-Aug-2017 22:10:30 Instrument ID: HP5973W
Lims ID: IC L1 12.0
Client ID:
Operator ID: PJQ ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

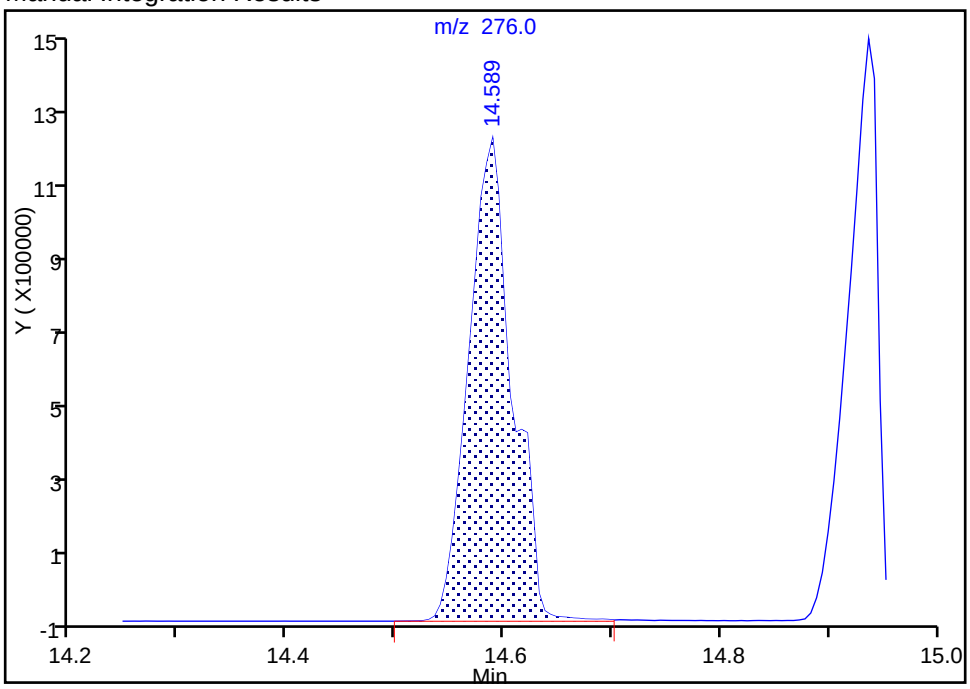
Processing Integration Results

RT: 14.59
Area: 2879899
Amount: 12.025507
Amount Units: ng/uL



Manual Integration Results

RT: 14.59
Area: 3327296
Amount: 12.131193
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:42:48
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D
Lims ID: IC L1 16.0
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 14-Aug-2017 22:39:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0064854-010
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 15-Aug-2017 18:11:49 Calib Date: 14-Aug-2017 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: quirkp Date: 15-Aug-2017 12:29:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.615	5.609	0.006	96	222978	4.00	4.00	
* 2 Naphthalene-d8	136	6.726	6.720	0.006	99	900466	4.00	4.00	
* 3 Acenaphthene-d10	164	8.179	8.173	0.006	97	424564	4.00	4.00	
* 4 Phenanthrene-d10	188	9.392	9.386	0.006	97	771204	4.00	4.00	
* 5 Chrysene-d12	240	11.619	11.608	0.011	96	783572	4.00	4.00	
* 6 Perylene-d12	264	13.222	13.217	0.006	98	731356	4.00	4.00	
$ 7 2-Fluorophenol	112	4.381	4.375	0.006	94	1150710	16.0	15.5	
$ 8 Phenol-d5	99	5.332	5.315	0.017	92	1457372	16.0	15.8	
$ 9 Nitrobenzene-d5	82	6.117	6.111	0.006	90	1253581	16.0	16.1	
$ 10 2-Fluorobiphenyl	172	7.629	7.623	0.006	99	2491358	16.0	15.7	
$ 11 2,4,6-Tribromophenol	330	8.831	8.820	0.011	92	388601	16.0	16.6	
$ 12 p-Terphenyl-d14	244	10.695	10.690	0.005	99	2645690	16.0	15.9	
14 1,4-Dioxane	88	2.281	2.276	0.005	98	517654	16.0	15.7	
15 N-Nitrosodimethylamine	42	2.660	2.650	0.010	94	655132	16.0	14.9	
16 Pyridine	52	2.650	2.650	0.000	89	2091649	32.0	30.9	
36 Benzaldehyde	77	5.225	5.214	0.011	93	1743971	32.0	28.3	
37 Phenol	94	5.342	5.326	0.016	97	1627393	16.0	15.6	
38 Aniline	93	5.332	5.326	0.006	90	1842245	16.0	15.5	
40 Bis(2-chloroethyl)ether	93	5.401	5.390	0.011	96	1268570	16.0	15.2	
41 2-Chlorophenol	128	5.433	5.428	0.005	97	1263921	16.0	16.2	
43 n-Decane	57	5.497	5.492	0.005	89	1612318	16.0	15.0	
44 1,3-Dichlorobenzene	146	5.561	5.561	0.000	98	1393287	16.0	15.6	
45 1,4-Dichlorobenzene	146	5.631	5.625	0.006	94	1400328	16.0	15.3	
46 Benzyl alcohol	108	5.775	5.759	0.016	95	797140	16.0	15.7	
47 1,2-Dichlorobenzene	146	5.764	5.764	0.000	98	1320507	16.0	15.3	
48 Indene	115	5.860	5.844	0.016	91	7723204	80.0	59.5	
49 2-Methylphenol	108	5.876	5.866	0.010	97	1188227	16.0	16.2	
50 2,2'-oxybis[1-chloropropan	45	5.882	5.876	0.006	95	1914511	16.0	14.9	
53 Acetophenone	105	5.994	5.983	0.011	97	1646003	16.0	15.5	
55 N-Nitrosodi-n-propylamine	70	6.010	5.994	0.016	88	866949	16.0	15.7	
56 4-Methylphenol	108	6.021	6.004	0.017	95	1180779	16.0	15.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	6.063	6.058	0.005	95	565489	16.0	15.6	
61 Nitrobenzene	77	6.133	6.127	0.006	89	1246914	16.0	16.0	
63 Isophorone	82	6.352	6.336	0.016	99	2245932	16.0	15.8	
67 2-Nitrophenol	139	6.405	6.400	0.005	92	668657	16.0	16.5	
68 2,4-Dimethylphenol	107	6.464	6.453	0.011	94	1197628	16.0	15.8	
71 Bis(2-chloroethoxy)methane	93	6.539	6.528	0.011	99	1428883	16.0	15.4	
74 2,4-Dichlorophenol	162	6.619	6.608	0.011	93	1038029	16.0	16.1	
72 Benzoic acid	105	6.731	6.619	0.112	0	4077438	80.0	82.2	M
75 1,2,4-Trichlorobenzene	180	6.678	6.678	0.000	94	1212398	16.0	16.0	
76 Naphthalene	128	6.742	6.736	0.006	98	3368306	16.0	14.8	
78 4-Chloroaniline	127	6.801	6.790	0.011	94	1363310	16.0	15.4	
79 2,6-Dichlorophenol	162	6.806	6.800	0.006	98	1035550	16.0	16.4	
81 Hexachlorobutadiene	225	6.854	6.854	0.000	95	699594	16.0	16.0	
84 Caprolactam	113	7.180	7.110	0.070	0	764179	32.0	32.1	M
87 4-Chloro-3-methylphenol	107	7.228	7.212	0.016	96	995151	16.0	15.9	
89 2-Methylnaphthalene	142	7.324	7.319	0.005	92	2398720	16.0	15.7	
91 1-Methylnaphthalene	142	7.404	7.399	0.005	92	2278356	16.0	15.5	
93 Hexachlorocyclopentadiene	237	7.458	7.458	0.000	95	813002	16.0	16.3	
92 1,2,4,5-Tetrachlorobenzene	216	7.463	7.458	0.005	96	1146060	16.0	16.3	
94 2,4,6-Trichlorophenol	196	7.565	7.559	0.006	90	755309	16.0	16.6	
95 2,4,5-Trichlorophenol	196	7.602	7.591	0.011	94	685125	16.0	15.4	
97 1,1'-Biphenyl	154	7.709	7.703	0.006	97	2797180	16.0	15.6	
98 2-Chloronaphthalene	162	7.725	7.719	0.006	96	2190285	16.0	15.6	
100 2-Nitroaniline	65	7.816	7.805	0.011	88	625888	16.0	16.1	
104 Dimethyl phthalate	163	7.976	7.960	0.016	99	2230246	16.0	15.2	
105 1,3-Dinitrobenzene	168	7.992	7.981	0.011	94	396098	16.0	16.5	
106 2,6-Dinitrotoluene	165	8.019	8.002	0.017	94	578234	16.0	16.3	
107 Acenaphthylene	152	8.061	8.056	0.005	98	3044011	16.0	15.9	
108 3-Nitroaniline	138	8.158	8.141	0.017	96	592149	16.0	16.4	
109 Acenaphthene	153	8.206	8.200	0.006	94	2277123	16.0	15.7	
110 2,4-Dinitrophenol	184	8.243	8.227	0.016	87	688338	32.0	33.8	
111 4-Nitrophenol	109	8.318	8.296	0.022	90	606641	32.0	32.5	
113 2,4-Dinitrotoluene	165	8.350	8.334	0.016	95	778553	16.0	16.6	
114 Dibenzofuran	168	8.350	8.344	0.006	96	2841827	16.0	15.2	
117 2,3,4,6-Tetrachlorophenol	232	8.457	8.451	0.006	71	631638	16.0	16.7	
119 Diethyl phthalate	149	8.548	8.537	0.011	99	2312485	16.0	16.1	
120 Hexadecane	57	8.558	8.553	0.005	90	1624204	16.0	14.8	
122 4-Chlorophenyl phenyl ethe	204	8.628	8.622	0.006	90	1198554	16.0	15.5	
123 Fluorene	166	8.633	8.622	0.011	97	2412296	16.0	15.9	
125 4-Nitroaniline	138	8.670	8.644	0.026	88	601773	16.0	16.1	M
126 4,6-Dinitro-2-methylphenol	198	8.686	8.670	0.016	90	853140	32.0	44.3	
129 N-Nitrosodiphenylamine	169	8.735	8.724	0.011	76	1758347	16.0	16.2	
128 Diphenylamine	169	8.735	8.724	0.011	93	1758347	13.7	13.9	
130 1,2-Diphenylhydrazine	77	8.761	8.750	0.011	97	2214984	16.0	14.9	
131 Azobenzene	77	8.761	8.750	0.011	97	2214984	16.0	14.7	
137 4-Bromophenyl phenyl ether	248	9.028	9.023	0.005	62	721087	16.0	16.6	
138 Hexachlorobenzene	284	9.087	9.076	0.011	95	788208	16.0	16.3	
141 Atrazine	200	9.183	9.162	0.021	96	1318827	32.0	31.9	
143 Pentachlorophenol	266	9.247	9.237	0.010	92	893411	32.0	34.3	M
146 n-Octadecane	57	9.311	9.306	0.005	94	1634028	16.0	15.2	
149 Phenanthrene	178	9.413	9.407	0.006	97	3376538	16.0	14.9	
150 Anthracene	178	9.456	9.445	0.011	98	3455066	16.0	15.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	9.589	9.578	0.011	96	2611357	16.0	15.5	
154 Di-n-butyl phthalate	149	9.872	9.867	0.005	100	3456681	16.0	15.2	
161 Fluoranthene	202	10.380	10.374	0.006	98	3542034	16.0	15.6	
164 Benzidine	184	10.492	10.487	0.005	99	1471107	16.0	21.8	
165 Pyrene	202	10.567	10.561	0.006	95	3619984	16.0	15.5	
172 Butyl benzyl phthalate	149	11.096	11.096	0.000	97	1682373	16.0	15.9	
177 3,3'-Dichlorobenzidine	252	11.587	11.576	0.011	73	1201976	16.0	23.2	
179 Benzo[a]anthracene	228	11.609	11.598	0.011	98	3743777	16.0	16.5	
180 Bis(2-ethylhexyl) phthalat	149	11.635	11.630	0.005	94	2498869	16.0	15.9	
181 Chrysene	228	11.646	11.635	0.011	97	3439119	16.0	15.3	
184 Di-n-octyl phthalate	149	12.325	12.319	0.006	99	4138757	16.0	15.8	
186 Benzo[b]fluoranthene	252	12.779	12.757	0.022	97	3778606	16.0	16.3	
187 Benzo[k]fluoranthene	252	12.811	12.789	0.022	98	3597218	16.0	15.7	
189 Benzo[a]pyrene	252	13.169	13.147	0.022	77	3471571	16.0	16.1	
193 Indeno[1,2,3-cd]pyrene	276	14.595	14.568	0.027	97	4414588	16.0	16.1	
194 Dibenz(a,h)anthracene	278	14.627	14.595	0.032	93	3804913	16.0	16.2	
195 Benzo[g,h,i]perylene	276	14.948	14.910	0.038	98	3742888	16.0	16.1	
S 258 3-Methylphenol	1				0			15.7	
S 262 Total Cresols	1				0			31.8	
S 257 3 & 4 Methylphenol	108				0			15.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00269	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00133	Amount Added: 20.00	Units: uL	Run Reagent

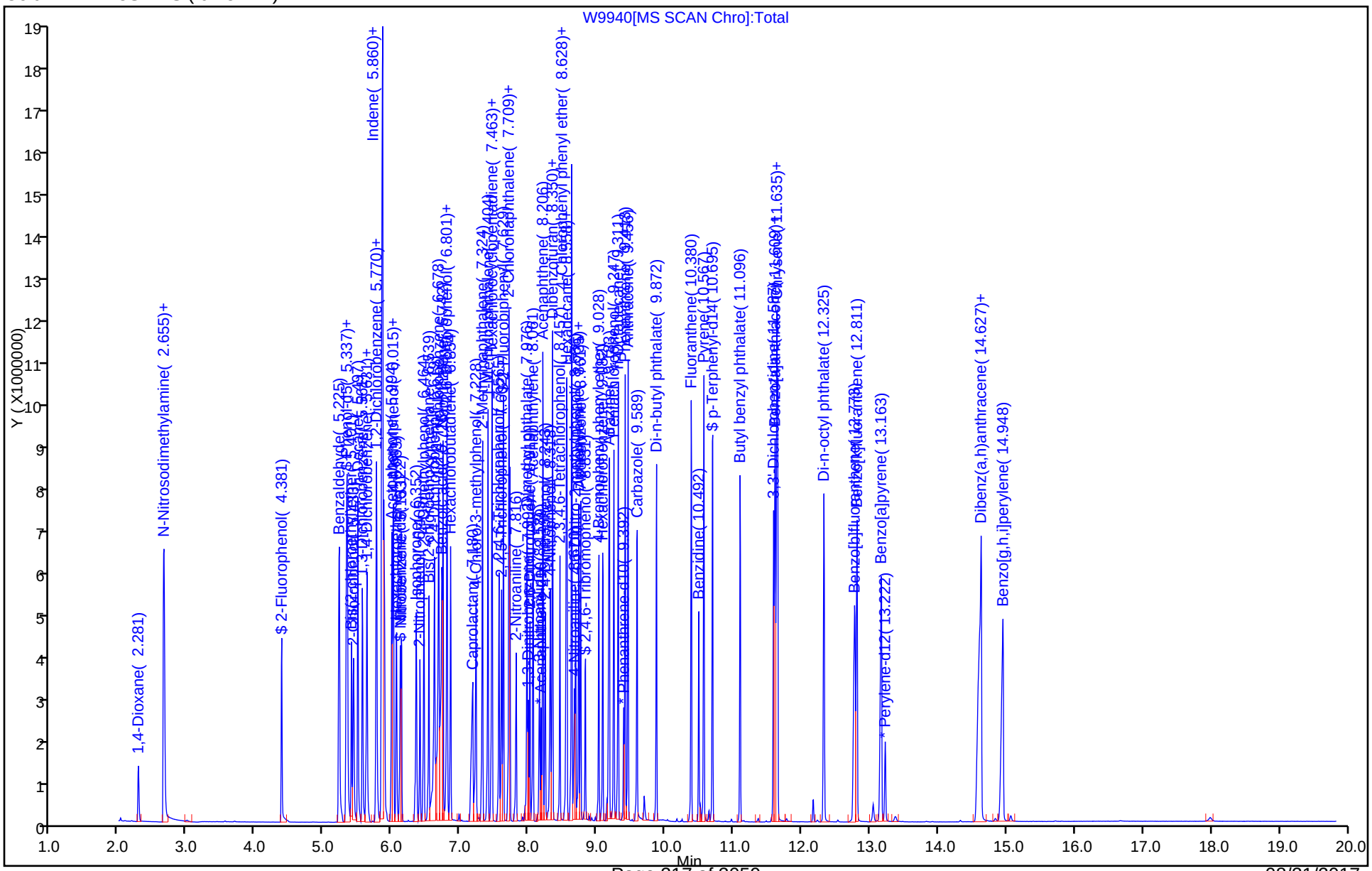
Report Date: 15-Aug-2017 18:11:50 Chrom Revision: 2.2 08-Aug-2017 17:51:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D

Injection Date:	14-Aug-2017 22:39:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	IC L1 16.0			Worklist Smp#:	10
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

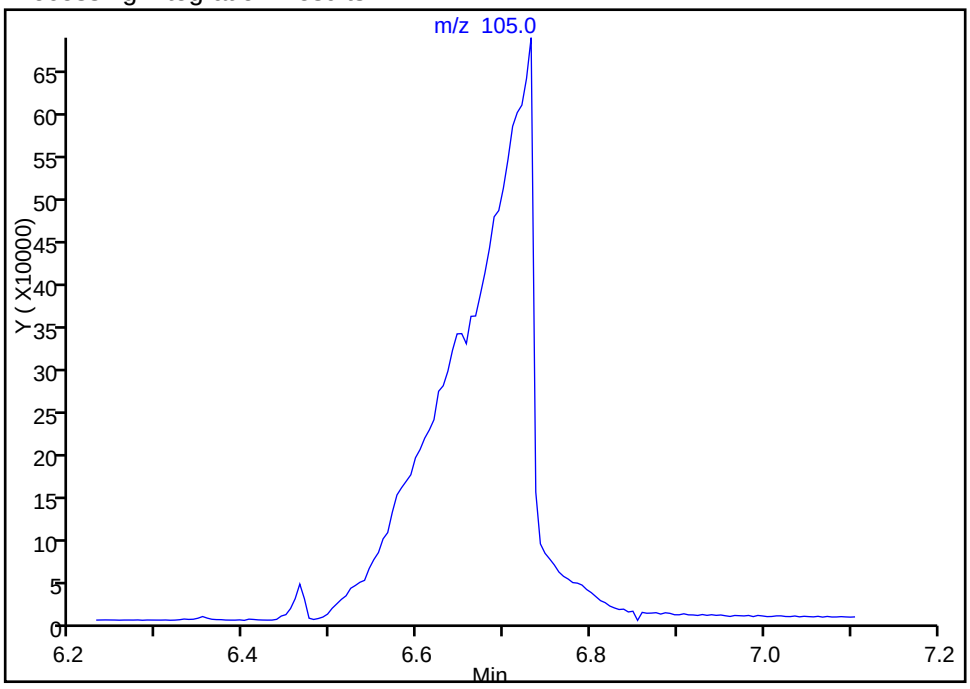
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D
Injection Date: 14-Aug-2017 22:39:30 Instrument ID: HP5973W
Lims ID: IC L1 16.0
Client ID:
Operator ID: PJQ ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

72 Benzoic acid, CAS: 65-85-0

Signal: 1

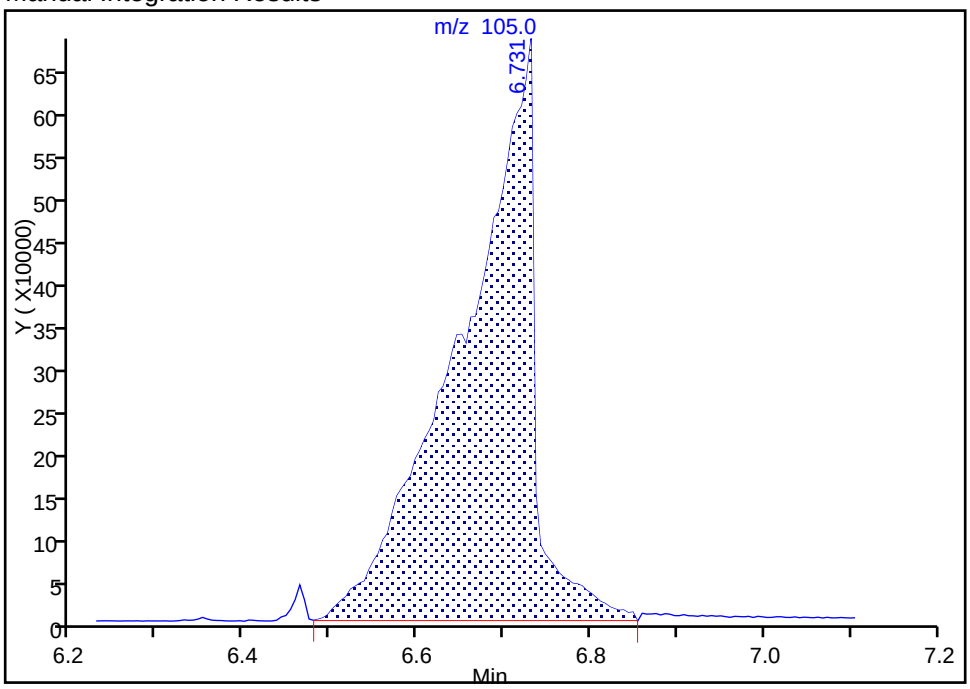
Not Detected
Expected RT: 6.62

Processing Integration Results



Manual Integration Results

RT: 6.73
Area: 4077438
Amount: 82.168994
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:29:25
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

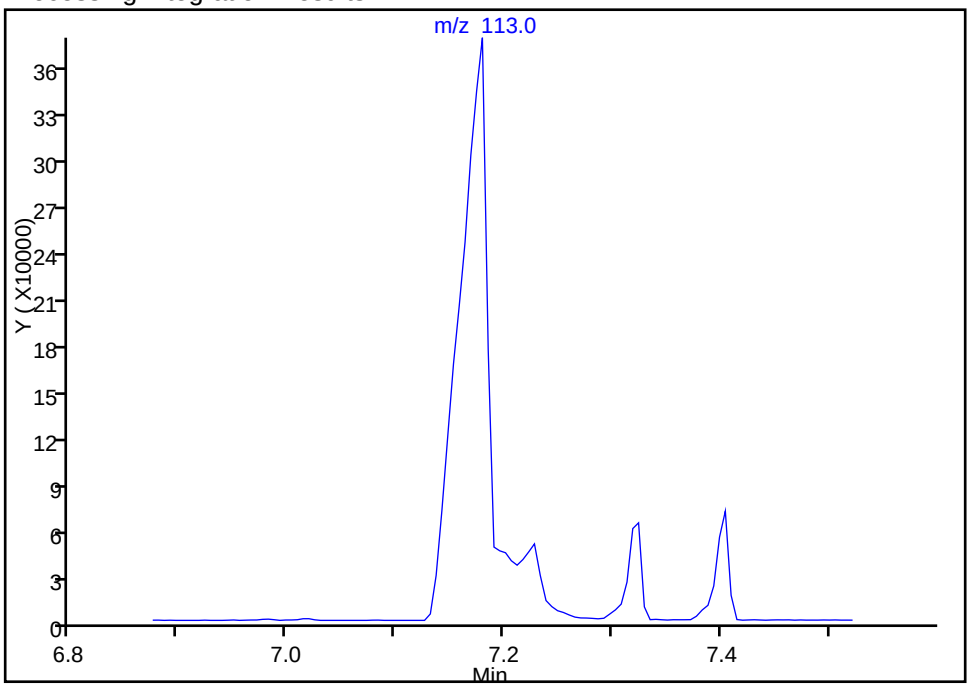
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D
Injection Date: 14-Aug-2017 22:39:30 Instrument ID: HP5973W
Lims ID: IC L1 16.0
Client ID:
Operator ID: PJQ ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

84 Caprolactam, CAS: 105-60-2

Signal: 1

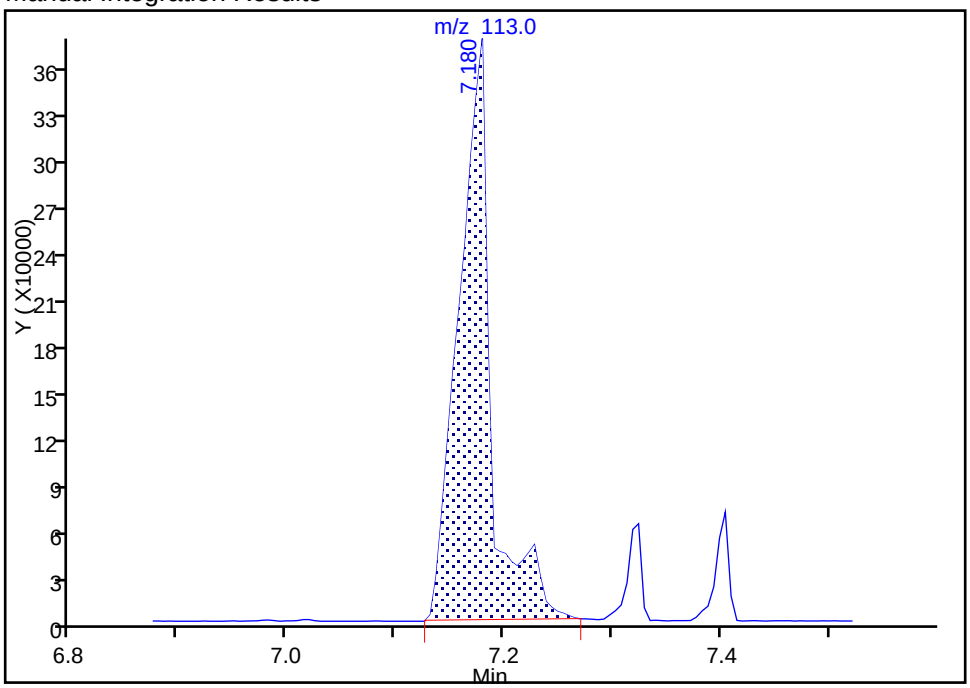
Not Detected
Expected RT: 7.11

Processing Integration Results



Manual Integration Results

RT: 7.18
Area: 764179
Amount: 32.086727
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:29:11
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

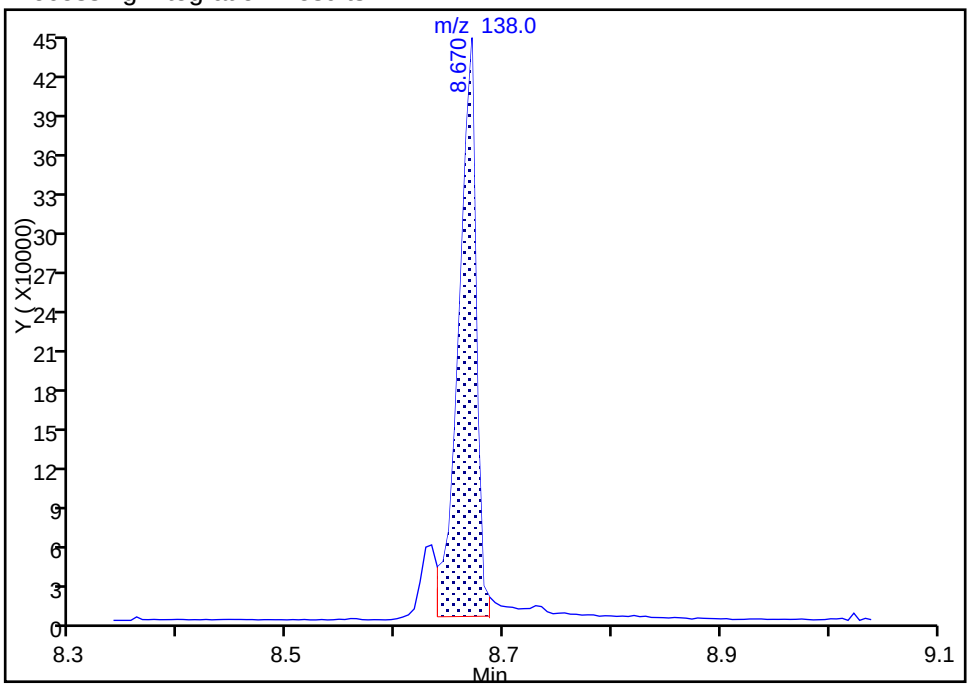
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D
Injection Date: 14-Aug-2017 22:39:30 Instrument ID: HP5973W
Lims ID: IC L1 16.0
Client ID:
Operator ID: PJQ ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

125 4-Nitroaniline, CAS: 100-01-6

Signal: 1

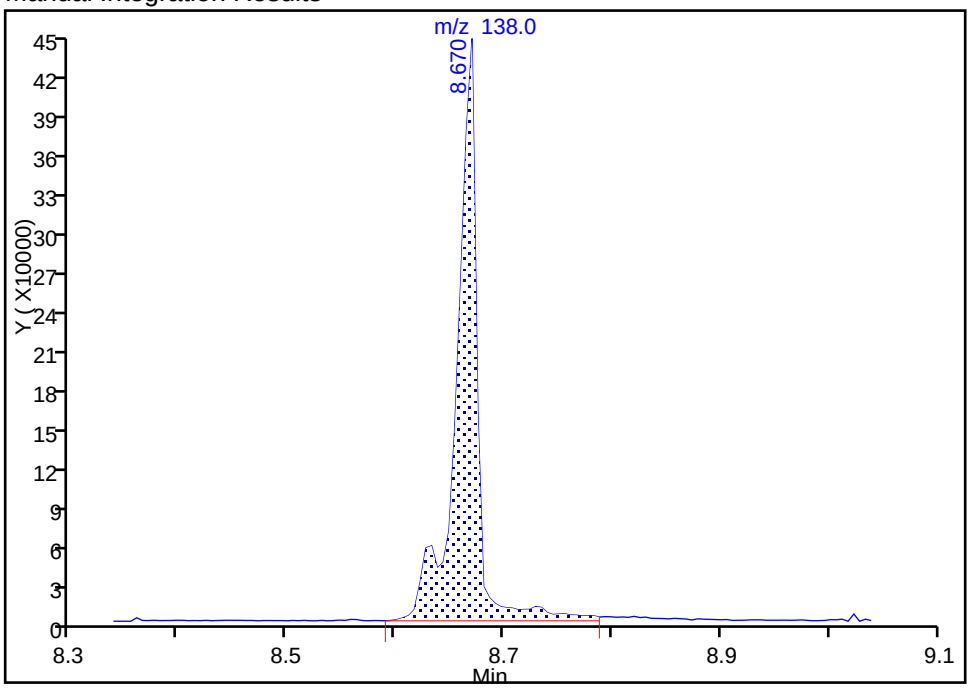
Processing Integration Results

RT: 8.67
Area: 499198
Amount: 14.326311
Amount Units: ng/uL



Manual Integration Results

RT: 8.67
Area: 601773
Amount: 16.073306
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:28:54
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

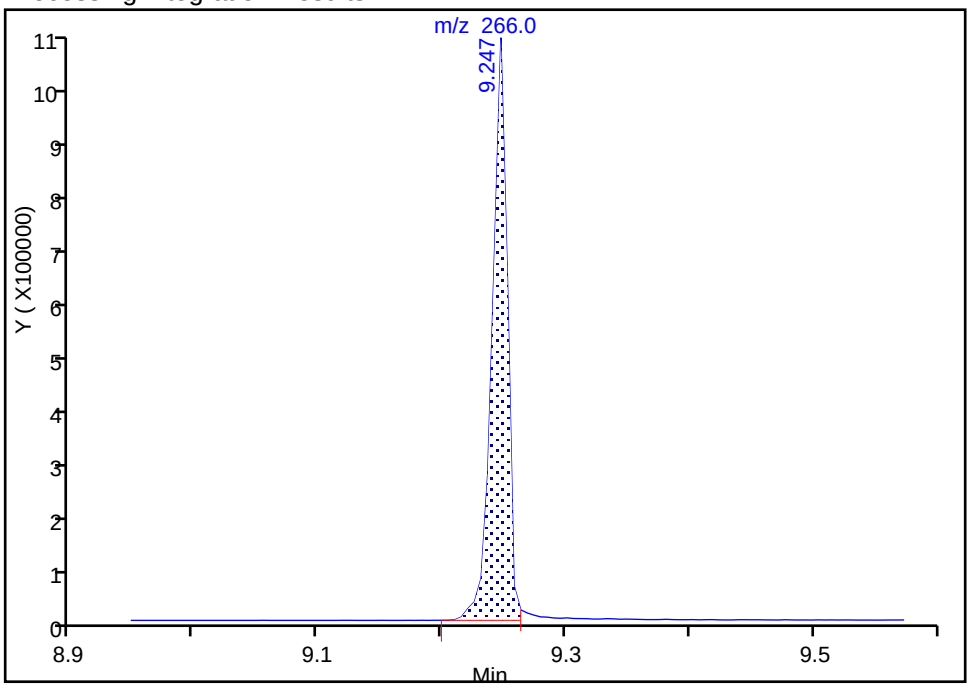
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D
Injection Date: 14-Aug-2017 22:39:30 Instrument ID: HP5973W
Lims ID: IC L1 16.0
Client ID:
Operator ID: PJQ ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

143 Pentachlorophenol, CAS: 87-86-5

Signal: 1

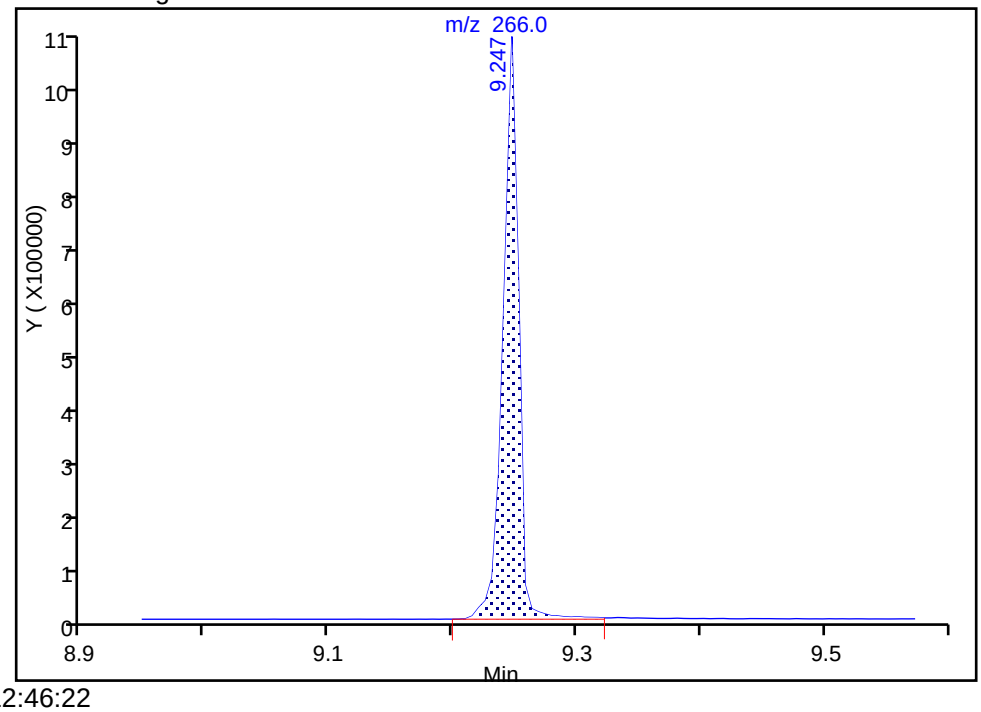
Processing Integration Results

RT: 9.25
Area: 875153
Amount: 36.358728
Amount Units: ng/uL



Manual Integration Results

RT: 9.25
Area: 893411
Amount: 34.265113
Amount Units: ng/uL



Reviewer: quirkp, 15-Aug-2017 12:46:22
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID (1): CCVIS 480-374280/3 Instrument ID (1): HP5973W

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 08/28/2017 15:35

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol	4.32	100.0
Benzaldehyde	5.16	100.0
Phenol-d5	5.27	100.0
Phenol	5.28	100.0
Bis(2-chloroethyl)ether	5.34	100.0
2-Chlorophenol	5.37	100.0
2-Methylphenol	5.82	100.0
bis (2-chloroisopropyl) ether	5.82	100.0
Acetophenone	5.93	100.0
N-Nitrosodi-n-propylamine	5.94	100.0
4-Methylphenol	5.96	100.0
Hexachloroethane	6.00	100.0
Nitrobenzene-d5	6.05	100.0
Nitrobenzene	6.07	100.0
Isophorone	6.28	100.0
2-Nitrophenol	6.35	100.0
2,4-Dimethylphenol	6.41	100.0
Bis(2-chloroethoxy)methane	6.48	100.0
2,4-Dichlorophenol	6.56	100.0
Naphthalene	6.68	100.0
4-Chloroaniline	6.74	100.0
Hexachlorobutadiene	6.80	100.0
Caprolactam	7.06	100.0
4-Chloro-3-methylphenol	7.16	100.0
2-Methylnaphthalene	7.27	100.0
Hexachlorocyclopentadiene	7.40	100.0
2,4,6-Trichlorophenol	7.51	100.0
2,4,5-Trichlorophenol	7.54	100.0
2-Fluorobiphenyl	7.57	100.0
Biphenyl	7.65	100.0
2-Chloronaphthalene	7.66	100.0
2-Nitroaniline	7.76	100.0
Dimethyl phthalate	7.91	100.0
2,6-Dinitrotoluene	7.96	100.0
Acenaphthylene	8.00	100.0
3-Nitroaniline	8.09	100.0
Acenaphthene	8.15	100.0
2,4-Dinitrophenol	8.18	100.0
4-Nitrophenol	8.25	100.0
2,4-Dinitrotoluene	8.28	100.0
Dibenzofuran	8.29	100.0
Diethyl phthalate	8.48	100.0
4-Chlorophenyl phenyl ether	8.57	100.0
Fluorene	8.57	100.0
4-Nitroaniline	8.59	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID (1): CCVIS 480-374280/3 Instrument ID (1): HP5973W

GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 08/28/2017 15:35

ANALYTE	RT	RESOLUTION (%)
4,6-Dinitro-2-methylphenol	8.62	100.0
N-Nitrosodiphenylamine	8.67	100.0
2,4,6-Tribromophenol	8.77	100.0
4-Bromophenyl phenyl ether	8.96	100.0
Hexachlorobenzene	9.02	100.0
Atrazine	9.11	100.0
Pentachlorophenol	9.18	100.0
Phenanthrene	9.35	100.0
Anthracene	9.39	100.0
Carbazole	9.53	100.0
Di-n-butyl phthalate	9.81	100.0
Fluoranthene	10.32	100.0
Pyrene	10.50	100.0
p-Terphenyl-d14	10.63	100.0
Butyl benzyl phthalate	11.04	100.0
3,3'-Dichlorobenzidine	11.51	100.0
Benzo(a)anthracene	11.53	100.0
Bis(2-ethylhexyl) phthalate	11.57	100.0
Chrysene	11.57	100.0
Di-n-octyl phthalate	12.24	100.0
Benzo(b)fluoranthene	12.67	24.50
Benzo(k)fluoranthene	12.70	100.0
Benzo(a)pyrene	13.05	100.0
Indeno(1,2,3-cd)pyrene	14.46	100.0
Dibenz(a,h)anthracene	14.49	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCVIS 480-374280/3 Calibration Date: 08/28/2017 15:35

Instrument ID: HP5973W Calib Start Date: 08/14/2017 19:16

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 08/14/2017 22:39

Lab File ID: W0185.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1		0.6081	0.0100	4050	4000	1.1	20.0
N-Nitrosodimethylamine	Ave	0.7897	0.8050	0.0100	4080	4000	1.9	50.0
Pyridine	Lin1		1.375	0.0100	9070	8000	13.4	50.0
Benzaldehyde	Ave	1.104	1.099	0.0100	7970	8000	-0.4	50.0
Aniline	Ave	2.127	2.074	0.0100	3900	4000	-2.5	20.0
Phenol	Ave	1.877	1.877	0.8000	4000	4000	-0.0	20.0
Bis(2-chloroethyl)ether	Ave	1.497	1.481	0.7000	3960	4000	-1.0	20.0
2-Chlorophenol	Ave	1.400	1.439	0.8000	4110	4000	2.8	20.0
n-Decane	Ave	1.924	1.990	0.0100	4140	4000	3.4	20.0
1,3-Dichlorobenzene	Ave	1.605	1.606	0.0100	4000	4000	0.0	20.0
1,4-Dichlorobenzene	Ave	1.644	1.631	0.0100	3970	4000	-0.8	20.0
1,2-Dichlorobenzene	Ave	1.549	1.523	0.0100	3930	4000	-1.7	20.0
Benzyl alcohol	Lin1		0.8331	0.0100	3710	4000	-7.4	20.0
Indene	Ave	0.5762	0.6122	0.0100	21200	20000	6.2	20.0
2-Methylphenol	Ave	1.319	1.289	0.7000	3910	4000	-2.3	20.0
bis (2-chloroisopropyl) ether	Ave	2.306	2.499	0.0100	4340	4000	8.4	20.0
Acetophenone	Ave	1.904	1.862	0.0100	3910	4000	-2.2	20.0
N-Nitrosodi-n-propylamine	Ave	0.9875	0.9734	0.5000	3940	4000	-1.4	20.0
4-Methylphenol	Ave	1.351	1.325	0.6000	3920	4000	-1.9	20.0
Hexachloroethane	Ave	0.6486	0.6384	0.3000	3940	4000	-1.6	20.0
Nitrobenzene	Lin1		0.3607	0.2000	4180	4000	4.5	20.0
Isophorone	Ave	0.6311	0.6445	0.4000	4080	4000	2.1	20.0
2-Nitrophenol	Lin1		0.1943	0.1000	4420	4000	10.6	20.0
2,4-Dimethylphenol	Lin1		0.3460	0.2000	4120	4000	3.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.4112	0.4033	0.3000	3920	4000	-1.9	20.0
2,4-Dichlorophenol	Lin1		0.2944	0.2000	4130	4000	3.3	20.0
Benzoic acid	Lin1		0.2125	0.0100	21900	20000	9.7	50.0
1,2,4-Trichlorobenzene	Ave	0.3358	0.3427	0.0100	4080	4000	2.0	20.0
Naphthalene	Ave	1.010	1.002	0.7000	3970	4000	-0.8	20.0
4-Chloroaniline	Ave	0.3944	0.3758	0.0100	3810	4000	-4.7	20.0
2,6-Dichlorophenol	Ave	0.2804	0.2907	0.0100	4150	4000	3.7	20.0
Hexachlorobutadiene	Ave	0.1937	0.2025	0.0100	4180	4000	4.5	20.0
Caprolactam	Lin1		0.1002	0.0100	7750	8000	-3.1	50.0
4-Chloro-3-methylphenol	Lin1		0.2854	0.2000	4130	4000	3.3	20.0
2-Methylnaphthalene	Ave	0.6780	0.6984	0.4000	4120	4000	3.0	20.0
1-Methylnaphthalene	Ave	0.6547	0.6621	0.0100	4050	4000	1.1	20.0
Hexachlorocyclopentadiene	Lin1		0.4814	0.0500	4170	4000	4.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6605	0.6691	0.0100	4050	4000	1.3	20.0
2,4,6-Trichlorophenol	Lin1		0.4125	0.2000	3950	4000	-1.3	20.0
2,4,5-Trichlorophenol	Lin1		0.4348	0.2000	4210	4000	5.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCVIS 480-374280/3 Calibration Date: 08/28/2017 15:35

Instrument ID: HP5973W Calib Start Date: 08/14/2017 19:16

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 08/14/2017 22:39

Lab File ID: W0185.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.693	1.708	0.0100	4040	4000	0.9	20.0
2-Chloronaphthalene	Ave	1.319	1.329	0.8000	4030	4000	0.7	20.0
2-Nitroaniline	Lin1		0.3826	0.0100	4260	4000	6.6	20.0
Dimethyl phthalate	Ave	1.383	1.469	0.0100	4250	4000	6.2	20.0
1,3-Dinitrobenzene	Lin1		0.1159	0.0100	4500	4000	12.6	20.0
2,6-Dinitrotoluene	Lin1		0.3354	0.2000	4130	4000	3.2	20.0
Acenaphthylene	Ave	1.809	1.883	0.9000	4160	4000	4.1	20.0
3-Nitroaniline	Lin1		0.3287	0.0100	3990	4000	-0.4	20.0
Acenaphthene	Ave	1.371	1.367	0.0100	3990	4000	-0.3	20.0
2,4-Dinitrophenol	Lin1		0.1915	0.0100	9120	8000	14.0	20.0
4-Nitrophenol	Lin1		0.1799	0.0100	8450	8000	5.6	20.0
2,4-Dinitrotoluene	Lin1		0.4476	0.0100	4200	4000	5.0	20.0
Dibenzofuran	Ave	1.762	1.824	0.8000	4140	4000	3.5	20.0
2,3,4,6-Tetrachlorophenol	Lin1		0.3598	0.0100	4160	4000	3.9	20.0
Diethyl phthalate	Ave	1.353	1.395	0.0100	4120	4000	3.1	20.0
Hexadecane	Ave	1.034	1.118	0.0100	4320	4000	8.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.7266	0.7530	0.4000	4150	4000	3.6	20.0
Fluorene	Ave	1.430	1.472	0.9000	4120	4000	3.0	20.0
4-Nitroaniline	Lin1		0.3543	0.0100	4100	4000	2.5	20.0
4,6-Dinitro-2-methylphenol	Ave	0.0999	0.1332	0.0100	10700	8000	33.4*	20.0
Diphenylamine	Ave	0.6577	0.6702	0.0100	3480	3420	1.9	20.0
N-Nitrosodiphenylamine	Ave	0.5623	0.5730	0.0100	4080	4000	1.9	20.0
1,2-Diphenylhydrazine	Ave	1.398	1.423	0.0100	4070	4000	1.7	20.0
trans-Azobenzene	Ave	0.7821	0.7879	0.0100	4030	4000	0.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2253	0.2365	0.1000	4200	4000	5.0	20.0
Hexachlorobenzene	Ave	0.2502	0.2630	0.1000	4210	4000	5.1	20.0
Atrazine	Lin1		0.4182	0.0100	8650	8000	8.2	20.0
Pentachlorophenol	Lin1		0.1259	0.0500	7790	8000	-2.6	20.0
n-Octadecane	Ave	0.5572	0.6017	0.0100	4320	4000	8.0	20.0
Phenanthrene	Ave	1.176	1.186	0.7000	4030	4000	0.8	20.0
Anthracene	Ave	1.159	1.218	0.7000	4200	4000	5.1	20.0
Carbazole	Ave	0.8715	0.9528	0.0100	4370	4000	9.3	20.0
Di-n-butyl phthalate	Lin1		1.269	0.0100	4300	4000	7.4	20.0
Fluoranthene	Lin1		1.261	0.6000	4280	4000	7.1	20.0
Benzidine	Ave	0.3447	0.3176	0.0100	3680	4000	-7.9	50.0
Pyrene	Ave	1.190	1.224	0.6000	4120	4000	2.9	20.0
Butyl benzyl phthalate	Lin1		0.5129	0.0100	3870	4000	-3.3	20.0
3,3'-Dichlorobenzidine	Ave	0.2649	0.2800	0.0100	4230	4000	5.7	50.0
Benzo(a)anthracene	Ave	1.159	1.204	0.8000	4150	4000	3.8	20.0
Bis(2-ethylhexyl) phthalate	Lin1		0.7705	0.0100	3910	4000	-2.3	20.0
Chrysene	Ave	1.149	1.110	0.7000	3860	4000	-3.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCVIS 480-374280/3 Calibration Date: 08/28/2017 15:35

Instrument ID: HP5973W Calib Start Date: 08/14/2017 19:16

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 08/14/2017 22:39

Lab File ID: W0185.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Lin1		1.206	0.0100	3730	4000	-6.7	20.0
Benzo(b)fluoranthene	Lin1		1.274	0.7000	4060	4000	1.6	20.0
Benzo(k)fluoranthene	Lin1		1.245	0.7000	3990	4000	-0.4	20.0
Benzo(a)pyrene	Lin1		1.169	0.7000	4000	4000	0.0	20.0
Indeno(1,2,3-cd)pyrene	Lin1		1.462	0.5000	3950	4000	-1.2	20.0
Dibenz(a,h)anthracene	Lin1		1.238	0.4000	3890	4000	-2.6	20.0
Benzo(g,h,i)perylene	Lin1		1.204	0.5000	3820	4000	-4.4	20.0
2-Fluorophenol	Lin1		1.322	0.0100	3980	4000	-0.4	20.0
Phenol-d5	Lin1		1.669	0.0100	4050	4000	1.1	20.0
Nitrobenzene-d5	Lin1		0.3650	0.0100	4250	4000	6.1	20.0
2-Fluorobiphenyl	Ave	1.494	1.506	0.0100	4030	4000	0.8	20.0
2,4,6-Tribromophenol	Lin1		0.1265	0.0100	4250	4000	6.3	20.0
p-Terphenyl-d14	Ave	0.8520	0.8922	0.0100	4190	4000	4.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0185.D
Lims ID: CCVIS L1
Client ID:
Sample Type: CCVIS
Inject. Date: 28-Aug-2017 15:35:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0065199-003
Operator ID: PJQ Instrument ID: HP5973W
Sublist: chrom-W-LVI-8270*sub55

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 28-Aug-2017 16:02:49 Calib Date: 24-Aug-2017 16:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170824-65106.b\W0126.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: quirkp Date: 28-Aug-2017 16:02:49

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
*	1 1,4-Dichlorobenzene-d4	152	5.556	5.556	0.000	96	224074	4.00	4.00	
*	2 Naphthalene-d8	136	6.667	6.667	0.000	99	888737	4.00	4.00	
*	3 Acenaphthene-d10	164	8.120	8.120	0.000	96	432413	4.00	4.00	
*	4 Phenanthrene-d10	188	9.327	9.327	0.000	97	780736	4.00	4.00	
*	5 Chrysene-d12	240	11.539	11.539	0.000	97	823806	4.00	4.00	
*	6 Perylene-d12	264	13.126	13.126	0.000	98	721002	4.00	4.00	
$	7 2-Fluorophenol	112	4.316	4.316	0.000	94	296137	4.00	3.98	
$	8 Phenol-d5	99	5.267	5.267	0.000	93	373987	4.00	4.05	
$	9 Nitrobenzene-d5	82	6.053	6.053	0.000	93	324389	4.00	4.25	
$	10 2-Fluorobiphenyl	172	7.570	7.570	0.000	100	651240	4.00	4.03	
$	11 2,4,6-Tribromophenol	330	8.767	8.767	0.000	94	98725	4.00	4.25	
$	12 p-Terphenyl-d14	244	10.631	10.631	0.000	99	735004	4.00	4.19	
	14 1,4-Dioxane	88	2.201	2.201	0.000	97	136261	4.00	4.05	
	15 N-Nitrosodimethylamine	42	2.564	2.564	0.000	42	180372	4.00	4.08	
	16 Pyridine	52	2.564	2.564	0.000	85	616250	8.00	9.07	
	36 Benzaldehyde	77	5.155	5.155	0.000	92	492689	8.00	7.97	
	38 Aniline	93	5.267	5.267	0.000	93	464635	4.00	3.90	
	37 Phenol	94	5.278	5.278	0.000	95	420486	4.00	4.00	
	40 Bis(2-chloroethyl)ether	93	5.337	5.337	0.000	97	331900	4.00	3.96	
	41 2-Chlorophenol	128	5.369	5.369	0.000	98	322426	4.00	4.11	
	43 n-Decane	57	5.438	5.438	0.000	93	445824	4.00	4.14	
	44 1,3-Dichlorobenzene	146	5.502	5.502	0.000	98	359860	4.00	4.00	
	45 1,4-Dichlorobenzene	146	5.567	5.567	0.000	94	365507	4.00	3.97	
	47 1,2-Dichlorobenzene	146	5.705	5.705	0.000	97	341226	4.00	3.93	
	46 Benzyl alcohol	108	5.705	5.705	0.000	93	186675	4.00	3.71	
	48 Indene	115	5.791	5.791	0.000	90	2720202	20.0	21.2	
	49 2-Methylphenol	108	5.818	5.818	0.000	98	288767	4.00	3.91	
	50 2,2'-oxybis[1-chloropropan	45	5.823	5.823	0.000	93	560003	4.00	4.34	
	53 Acetophenone	105	5.930	5.930	0.000	95	417175	4.00	3.91	
	55 N-Nitrosodi-n-propylamine	70	5.941	5.941	0.000	93	218114	4.00	3.94	
	56 4-Methylphenol	108	5.957	5.957	0.000	96	296851	4.00	3.92	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Hexachloroethane	117	5.999	5.999	0.000	96	143042	4.00	3.94	
61 Nitrobenzene	77	6.074	6.074	0.000	91	320554	4.00	4.18	
63 Isophorone	82	6.282	6.282	0.000	99	572812	4.00	4.08	
67 2-Nitrophenol	139	6.347	6.347	0.000	95	172691	4.00	4.42	
68 2,4-Dimethylphenol	107	6.405	6.405	0.000	97	307502	4.00	4.12	
71 Bis(2-chloroethoxy)methane	93	6.475	6.475	0.000	98	358428	4.00	3.92	
74 2,4-Dichlorophenol	162	6.560	6.560	0.000	94	261659	4.00	4.13	
72 Benzoic acid	105	6.576	6.576	0.000	90	944146	20.0	21.9	M
75 1,2,4-Trichlorobenzene	180	6.619	6.619	0.000	94	304523	4.00	4.08	
76 Naphthalene	128	6.683	6.683	0.000	98	890796	4.00	3.97	
78 4-Chloroaniline	127	6.742	6.742	0.000	96	333954	4.00	3.81	
79 2,6-Dichlorophenol	162	6.747	6.747	0.000	97	258325	4.00	4.15	
81 Hexachlorobutadiene	225	6.801	6.801	0.000	96	179994	4.00	4.18	
84 Caprolactam	113	7.062	7.062	0.000	77	178055	8.00	7.75	
87 4-Chloro-3-methylphenol	107	7.164	7.164	0.000	97	253625	4.00	4.13	
89 2-Methylnaphthalene	142	7.265	7.265	0.000	92	620653	4.00	4.12	
91 1-Methylnaphthalene	142	7.346	7.346	0.000	93	588445	4.00	4.05	
93 Hexachlorocyclopentadiene	237	7.399	7.399	0.000	95	208175	4.00	4.17	
92 1,2,4,5-Tetrachlorobenzene	216	7.404	7.404	0.000	97	289316	4.00	4.05	
94 2,4,6-Trichlorophenol	196	7.506	7.506	0.000	92	178367	4.00	3.95	
95 2,4,5-Trichlorophenol	196	7.543	7.543	0.000	93	188023	4.00	4.21	
97 1,1'-Biphenyl	154	7.650	7.650	0.000	95	738579	4.00	4.04	
98 2-Chloronaphthalene	162	7.661	7.661	0.000	97	574639	4.00	4.03	
100 2-Nitroaniline	65	7.757	7.757	0.000	87	165441	4.00	4.26	
104 Dimethyl phthalate	163	7.906	7.906	0.000	99	635038	4.00	4.25	
105 1,3-Dinitrobenzene	168	7.928	7.928	0.000	91	102983	4.00	4.50	
106 2,6-Dinitrotoluene	165	7.955	7.955	0.000	96	145037	4.00	4.13	
107 Acenaphthylene	152	8.003	8.003	0.000	98	814028	4.00	4.16	
108 3-Nitroaniline	138	8.093	8.093	0.000	96	142138	4.00	3.99	
109 Acenaphthene	153	8.147	8.147	0.000	94	590891	4.00	3.99	
110 2,4-Dinitrophenol	184	8.179	8.179	0.000	88	165568	8.00	9.12	
111 4-Nitrophenol	109	8.248	8.248	0.000	94	155550	8.00	8.45	
113 2,4-Dinitrotoluene	165	8.280	8.280	0.000	95	193535	4.00	4.20	
114 Dibenzofuran	168	8.286	8.286	0.000	96	788801	4.00	4.14	
117 2,3,4,6-Tetrachlorophenol	232	8.398	8.398	0.000	72	155574	4.00	4.16	
119 Diethyl phthalate	149	8.483	8.483	0.000	98	603201	4.00	4.12	
120 Hexadecane	57	8.499	8.499	0.000	90	483223	4.00	4.32	
122 4-Chlorophenyl phenyl ethe	204	8.569	8.569	0.000	74	325625	4.00	4.15	
123 Fluorene	166	8.569	8.569	0.000	93	636685	4.00	4.12	
125 4-Nitroaniline	138	8.590	8.590	0.000	86	153201	4.00	4.10	M
126 4,6-Dinitro-2-methylphenol	198	8.617	8.617	0.000	88	207986	8.00	10.7	
128 Diphenylamine	169	8.670	8.670	0.000	94	447359	3.42	3.48	
129 N-Nitrosodiphenylamine	169	8.670	8.670	0.000	62	447359	4.00	4.08	
131 Azobenzene	77	8.697	8.697	0.000	98	615164	4.00	4.03	
130 1,2-Diphenylhydrazine	77	8.697	8.697	0.000	99	615164	4.00	4.07	
137 4-Bromophenyl phenyl ether	248	8.964	8.964	0.000	66	184645	4.00	4.20	
138 Hexachlorobenzene	284	9.023	9.023	0.000	95	205321	4.00	4.21	
141 Atrazine	200	9.114	9.114	0.000	95	361635	8.00	8.65	
143 Pentachlorophenol	266	9.183	9.183	0.000	92	196595	8.00	7.79	
146 n-Octadecane	57	9.253	9.253	0.000	94	469743	4.00	4.32	
149 Phenanthrene	178	9.349	9.349	0.000	97	925752	4.00	4.03	
150 Anthracene	178	9.392	9.392	0.000	97	951035	4.00	4.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
151 Carbazole	167	9.525	9.525	0.000	96	743846	4.00	4.37	
154 Di-n-butyl phthalate	149	9.814	9.814	0.000	100	990465	4.00	4.30	
161 Fluoranthene	202	10.316	10.316	0.000	98	984845	4.00	4.28	
164 Benzidine	184	10.433	10.433	0.000	99	261609	4.00	3.68	
165 Pyrene	202	10.503	10.503	0.000	97	1008615	4.00	4.12	
172 Butyl benzyl phthalate	149	11.037	11.037	0.000	97	422510	4.00	3.87	
177 3,3'-Dichlorobenzidine	252	11.512	11.512	0.000	73	230646	4.00	4.23	
179 Benzo[a]anthracene	228	11.528	11.528	0.000	98	991825	4.00	4.15	
181 Chrysene	228	11.566	11.566	0.000	96	914462	4.00	3.86	
180 Bis(2-ethylhexyl) phthalat	149	11.566	11.566	0.000	95	634746	4.00	3.91	
184 Di-n-octyl phthalate	149	12.239	12.239	0.000	99	993735	4.00	3.73	
186 Benzo[b]fluoranthene	252	12.672	12.672	0.000	97	918212	4.00	4.06	
187 Benzo[k]fluoranthene	252	12.704	12.704	0.000	98	897497	4.00	3.99	
189 Benzo[a]pyrene	252	13.051	13.051	0.000	77	842833	4.00	4.00	
193 Indeno[1,2,3-cd]pyrene	276	14.461	14.461	0.000	99	1054031	4.00	3.95	M
194 Dibenz(a,h)anthracene	278	14.488	14.488	0.000	93	892363	4.00	3.89	
195 Benzo[g,h,i]perylene	276	14.798	14.798	0.000	98	867997	4.00	3.82	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1LVI_WRK_00266	Amount Added: 1.00	Units: mL	
MB_LLIS_WRK_00134	Amount Added: 20.00	Units: uL	Run Reagent

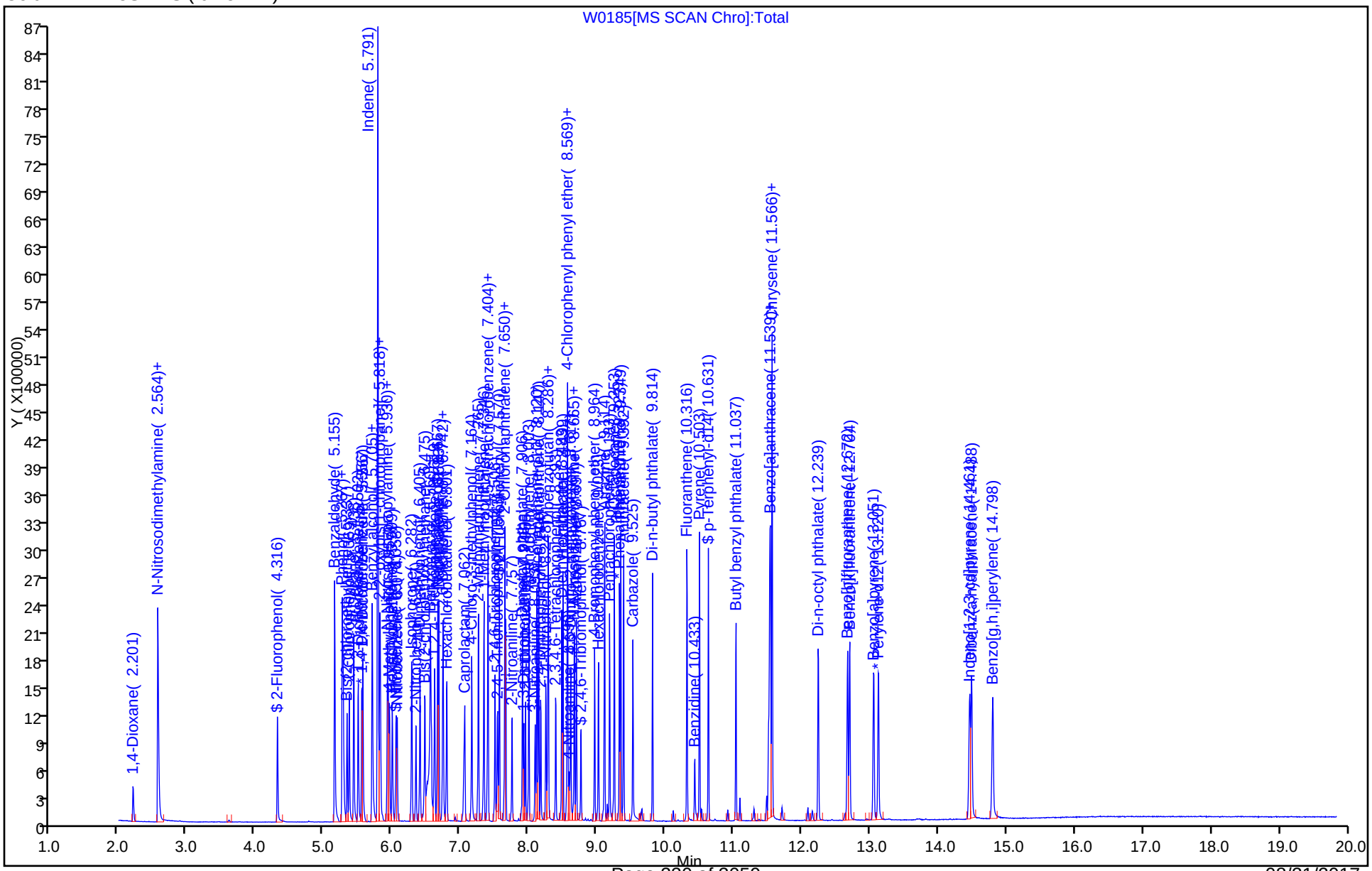
Report Date: 28-Aug-2017 16:02:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0185.D

Injection Date:	28-Aug-2017 15:35:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	CCVIS L1			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

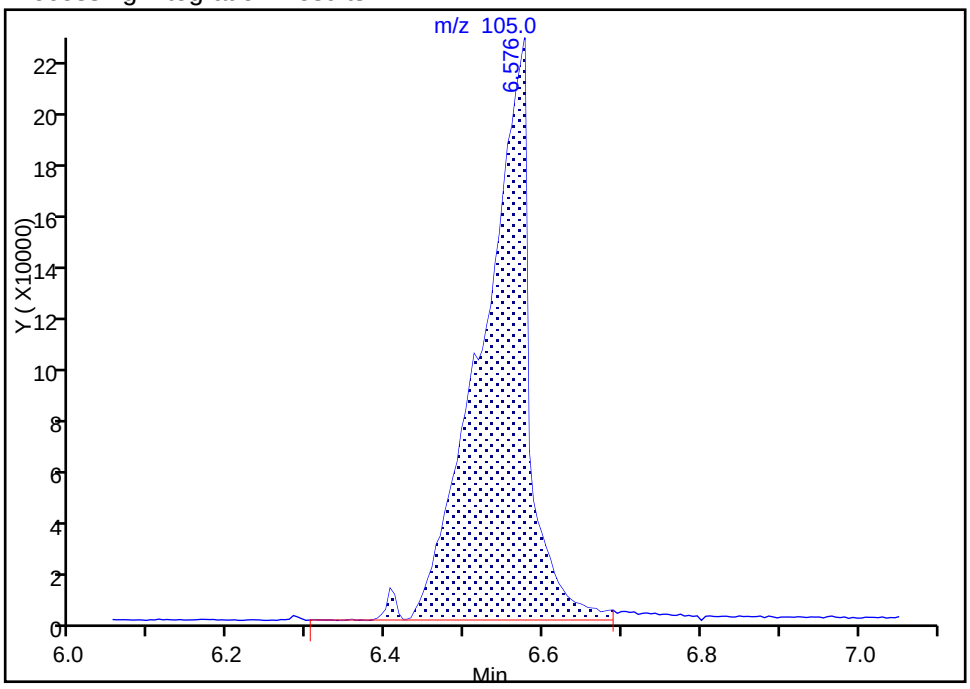
Data File:	\\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0185.D				
Injection Date:	28-Aug-2017 15:35:30	Instrument ID:	HP5973W		
Lims ID:	CCVIS L1				
Client ID:					
Operator ID:	PJQ	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		
Column:	RXI-5Sil MS (0.25 mm)	Detector	MS SCAN		

72 Benzoic acid, CAS: 65-85-0

Signal: 1

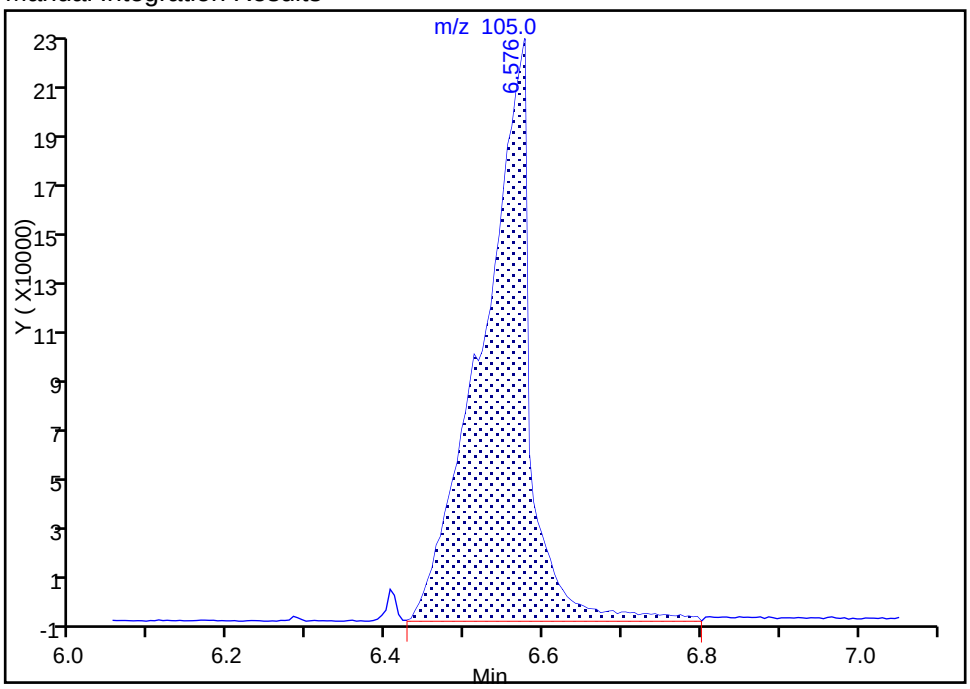
Processing Integration Results

RT: 6.58
Area: 935530
Amount: 21.761765
Amount Units: ng/uL



Manual Integration Results

RT: 6.58
Area: 944146
Amount: 21.930267
Amount Units: ng/uL



Reviewer: quirkp, 28-Aug-2017 16:01:35

Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

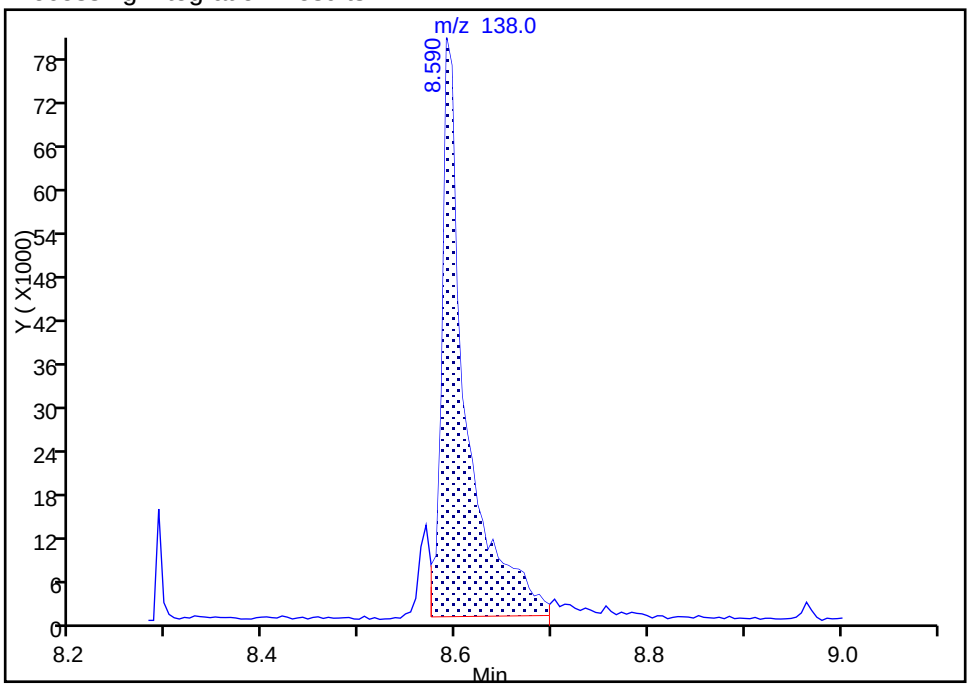
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0185.D
Injection Date: 28-Aug-2017 15:35:30 Instrument ID: HP5973W
Lims ID: CCVIS L1
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

125 4-Nitroaniline, CAS: 100-01-6

Signal: 1

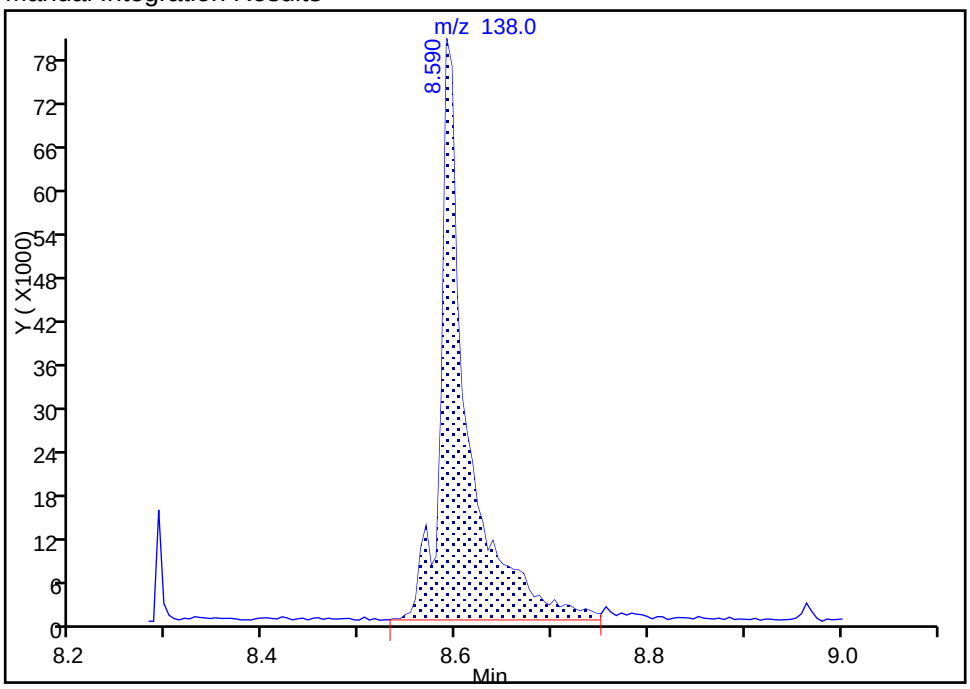
Processing Integration Results

RT: 8.59
Area: 136260
Amount: 3.657332
Amount Units: ng/uL



Manual Integration Results

RT: 8.59
Area: 153201
Amount: 4.098629
Amount Units: ng/uL



Reviewer: quirkp, 28-Aug-2017 16:01:58
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

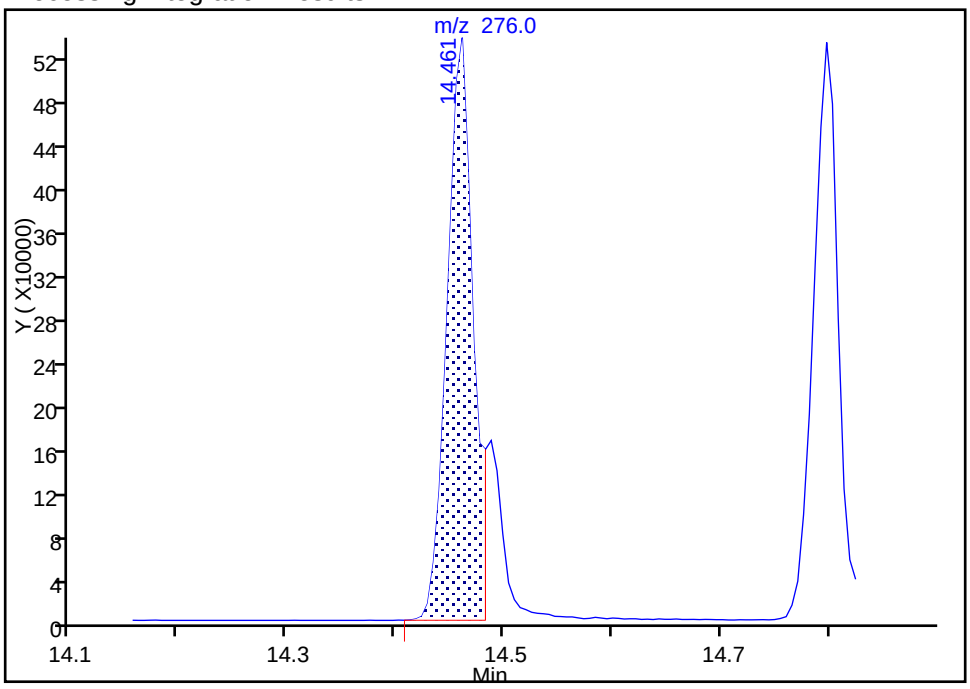
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0185.D
Injection Date: 28-Aug-2017 15:35:30 Instrument ID: HP5973W
Lims ID: CCVIS L1
Client ID:
Operator ID: PJQ ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

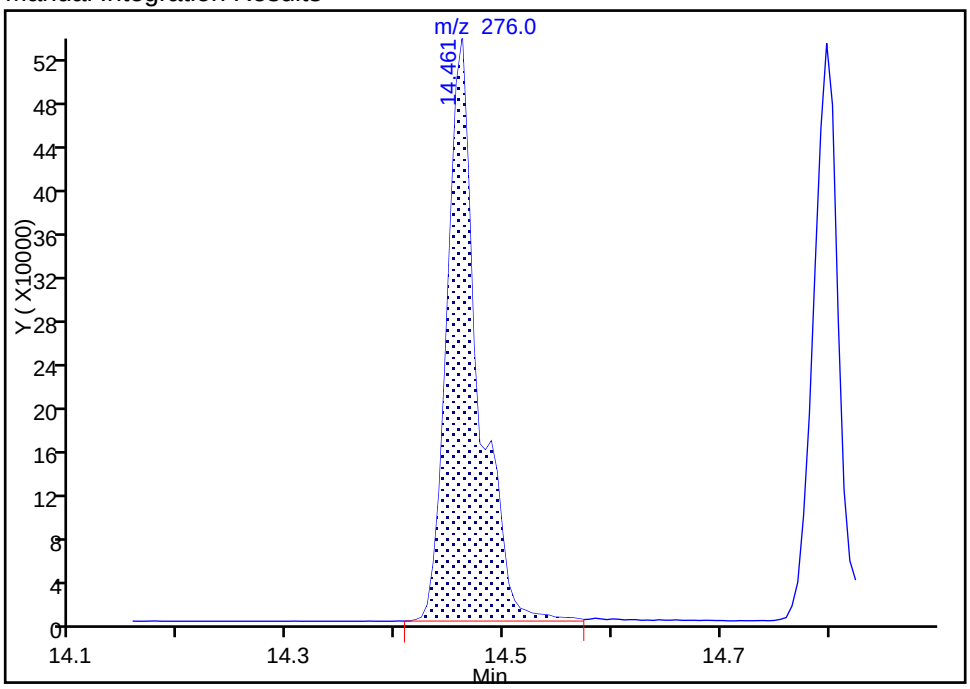
Processing Integration Results

RT: 14.46
Area: 896204
Amount: 3.371293
Amount Units: ng/uL



Manual Integration Results

RT: 14.46
Area: 1054031
Amount: 3.953477
Amount Units: ng/uL



Reviewer: quirkp, 28-Aug-2017 16:02:17
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9932.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 14-Aug-2017 18:45:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: PJQ Instrument ID: HP5973W

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 15-Aug-2017 15:05:02 Calib Date: 14-Aug-2017 22:39:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9940.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: quirkp Date: 14-Aug-2017 19:09:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	9.237	9.237	0.000	92	172140	NR	NR	
249 DFTPP									
250 Benzidine_T	184	10.487	10.487	0.000	99	1007793	NR	NR	
251 4,4'-DDE	246	10.642	10.642	0.000	86	925		NR	
252 4,4'-DDD	235	10.941	10.941	0.000	89	1733		NR	
253 4,4'-DDT	235	11.176	11.176	0.000	98	676326	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

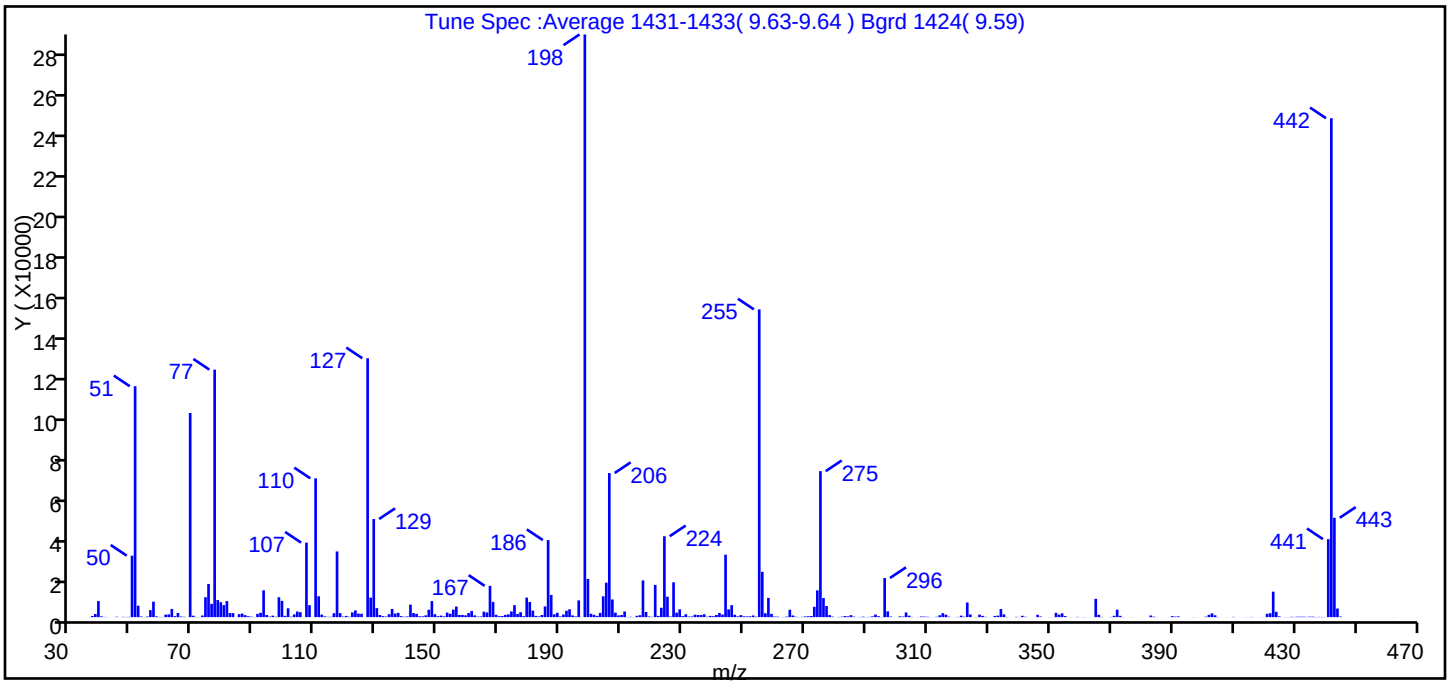
MB_DFTPP_WRK_00315 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9932.D
Injection Date: 14-Aug-2017 18:45:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (116.8)
51	10-80% of the base peak	39.6
68	<2% of mass 69	0.0 (0.0)
69	Present	35.0
70	<2% of mass 69	0.2 (0.7)
127	10-80% of the base peak	44.4
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.6
275	10-60% of the base peak	25.1
365	>1% of mass 198	3.1
441	present but <24% of mass 442	13.4 (15.6)
442	base peak, or >50% of 198	85.6
443	15-24% of mass 442	17.1 (19.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9932.D\W-LVI-8270.rslt\spectra.d
Injection Date: 14-Aug-2017 18:45:30
Spectrum: Tune Spec :Average 1431-1433(9.63-9.64) Bgrd 1424(9.59)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	44	134.00	1449	226.00	298	321.00	741
37.00	587	135.00	4004	227.00	17040	322.00	200
38.00	1524	136.00	1789	228.00	2169	323.00	7189
39.00	7857	137.00	2099	229.00	3829	324.00	1293
40.00	392	138.00	496	230.00	500	325.00	4
41.00	116	139.00	185	231.00	1401	326.00	97
42.00	51	140.00	336	232.00	302	327.00	1222
45.00	201	141.00	6130	233.00	330	328.00	634
47.00	145	142.00	2004	234.00	1190	329.00	164
48.00	114	143.00	1627	235.00	1043	330.00	34
49.00	140	144.00	413	236.00	1033	332.00	607
50.00	30072	145.00	393	237.00	1409	333.00	749
51.00	112936	146.00	877	238.00	194	334.00	3949
52.00	5594	147.00	3626	239.00	629	335.00	1333
53.00	312	148.00	7862	240.00	472	336.00	85
54.00	50	149.00	1429	241.00	1052	339.00	160
55.00	307	150.00	464	242.00	2015	340.00	40
56.00	3433	151.00	764	243.00	1269	341.00	668
57.00	7577	152.00	368	244.00	30544	342.00	186
58.00	391	153.00	2230	245.00	3782	346.00	1157
59.00	105	154.00	1648	246.00	5852	347.00	297
60.00	113	155.00	3700	247.00	1161	350.00	53
61.00	1210	156.00	5164	248.00	390	351.00	46
62.00	1328	157.00	1054	249.00	1012	352.00	2111
63.00	4013	158.00	1081	250.00	414	353.00	1244
64.00	479	159.00	874	251.00	362	354.00	1861
65.00	2044	160.00	1990	252.00	411	355.00	522
66.00	302	161.00	3016	253.00	818	357.00	35
67.00	182	162.00	859	254.00	205	359.00	131
69.00	99864	163.00	246	255.00	150528	360.00	40
70.00	698	164.00	317	256.00	22168	361.00	88
71.00	109	165.00	2680	257.00	1895	362.00	34
72.00	68	166.00	2289	258.00	9383	363.00	35

Report Date: 15-Aug-2017 15:05:03 Chrom Revision: 2.2 08-Aug-2017 17:51:08
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9932.D\W-LVI-8270.rslt\spectra.d
Injection Date: 14-Aug-2017 18:45:30
Spectrum: Tune Spec :Average 1431-1433(9.63-9.64) Bgrd 1424(9.59)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	802	167.00	15312	259.00	1611	365.00	8950
74.00	9749	168.00	7455	260.00	279	366.00	1148
75.00	16242	169.00	1160	261.00	260	367.00	114
76.00	6518	170.00	466	262.00	40	370.00	111
77.00	121072	171.00	566	263.00	90	371.00	652
78.00	8366	172.00	1114	264.00	267	372.00	3647
79.00	7315	173.00	1379	265.00	3591	373.00	634
80.00	5861	174.00	2803	266.00	827	374.00	42
81.00	7849	175.00	5856	267.00	201	377.00	42
82.00	1991	176.00	1576	268.00	49	383.00	812
83.00	1985	177.00	2411	269.00	135	384.00	241
84.00	10	178.00	457	270.00	352	385.00	55
85.00	1456	179.00	9558	271.00	445	389.00	43
86.00	1752	180.00	7416	272.00	584	390.00	492
87.00	975	181.00	3171	273.00	5058	391.00	272
88.00	446	182.00	644	274.00	13097	392.00	371
89.00	240	183.00	371	275.00	71416	397.00	48
90.00	47	184.00	1053	276.00	9338	398.00	38
91.00	1602	185.00	5252	277.00	5435	401.00	238
92.00	2121	186.00	37696	278.00	1003	402.00	1146
93.00	13126	187.00	10879	279.00	256	403.00	1848
94.00	1035	188.00	1357	281.00	105	404.00	896
95.00	262	189.00	2117	282.00	213	405.00	86
96.00	729	190.00	330	283.00	562	408.00	50
97.00	169	191.00	1276	284.00	423	410.00	129
98.00	9729	192.00	3119	285.00	977	414.00	36
99.00	7960	193.00	3829	286.00	242	415.00	39
100.00	640	194.00	835	287.00	33	416.00	114
101.00	4345	195.00	339	288.00	111	419.00	45
102.00	224	196.00	8194	289.00	239	420.00	49
103.00	1327	198.00	284992	290.00	71	421.00	1633
104.00	2753	199.00	18696	291.00	140	422.00	1917
105.00	2405	200.00	1644	292.00	395	423.00	12470
107.00	36448	201.00	1133	293.00	1257	424.00	2616

Report Date: 15-Aug-2017 15:05:03 Chrom Revision: 2.2 08-Aug-2017 17:51:08
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9932.D\W-LVI-8270.rslt\spectra.d
Injection Date: 14-Aug-2017 18:45:30
Spectrum: Tune Spec :Average 1431-1433(9.63-9.64) Bgrd 1424(9.59)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 361

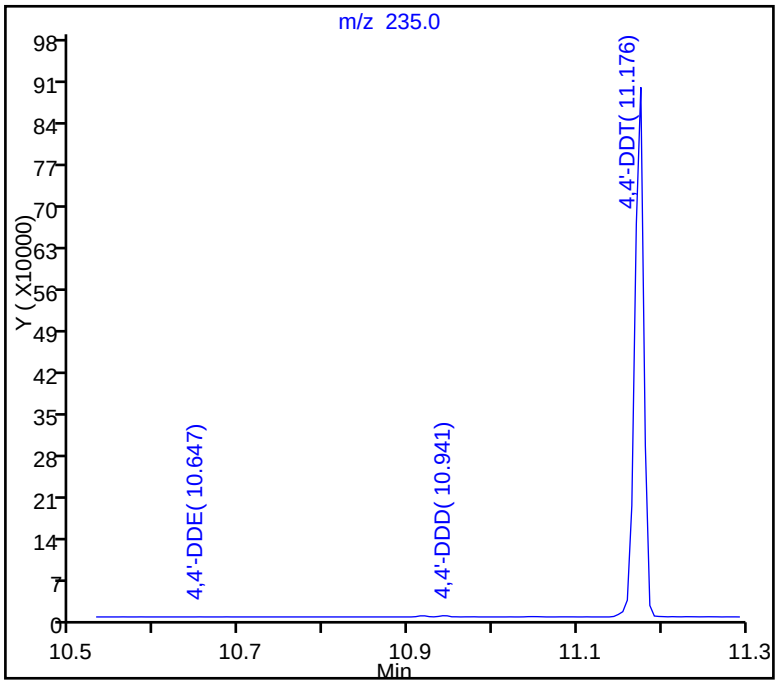
m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	5855	202.00	619	294.00	462	425.00	363
110.00	67896	203.00	2060	295.00	62	427.00	57
111.00	10182	204.00	10203	296.00	19144	428.00	48
112.00	1250	205.00	16880	297.00	2824	429.00	175
113.00	383	206.00	70488	298.00	285	430.00	112
114.00	165	207.00	8649	300.00	33	431.00	235
115.00	160	208.00	2218	301.00	391	432.00	220
116.00	1932	209.00	848	302.00	298	433.00	224
117.00	32128	210.00	1047	303.00	2306	434.00	130
118.00	1967	211.00	2753	304.00	727	435.00	243
119.00	257	212.00	96	305.00	104	436.00	236
120.00	587	213.00	169	307.00	59	437.00	87
121.00	210	214.00	52	308.00	303	438.00	131
122.00	2307	215.00	657	309.00	271	439.00	105
123.00	3278	216.00	949	310.00	189	440.00	51
124.00	1715	217.00	17944	311.00	50	441.00	38152
125.00	1642	218.00	2511	312.00	33	442.00	244032
127.00	126640	219.00	326	313.00	178	443.00	48592
128.00	9534	220.00	139	314.00	923	444.00	4197
129.00	47992	221.00	15757	315.00	1944	445.00	287
130.00	4416	222.00	629	316.00	1226	462.00	38
131.00	1050	223.00	4575	317.00	264		
132.00	495	224.00	39576	319.00	55		
133.00	276	225.00	9987	320.00	107		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9932.D
Injection Date: 14-Aug-2017 18:45:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

253 4,4'-DDT, Area = 676326
252 4,4'-DDD, Area = 1733
251 4,4'-DDE, Area = 925

%Breakdown: 0.39%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

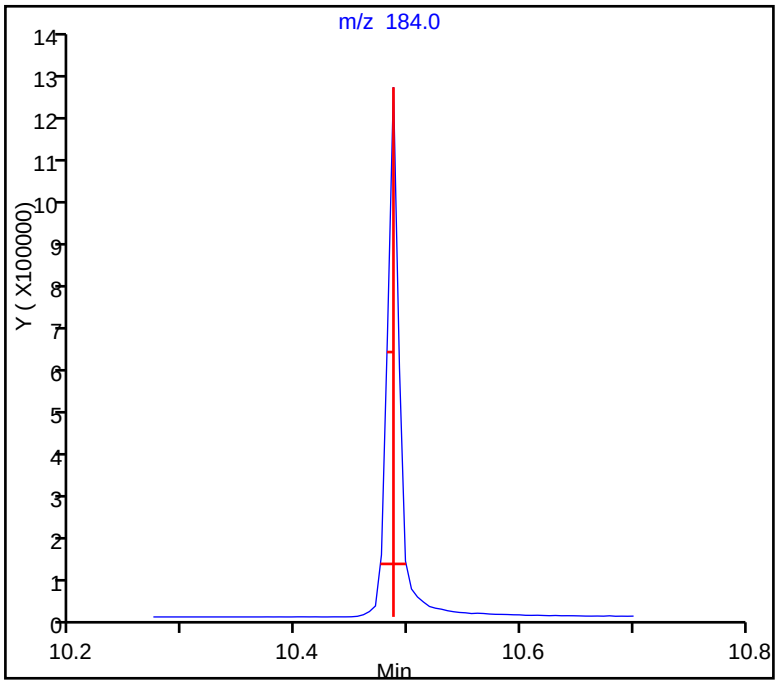
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9932.D
Injection Date: 14-Aug-2017 18:45:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

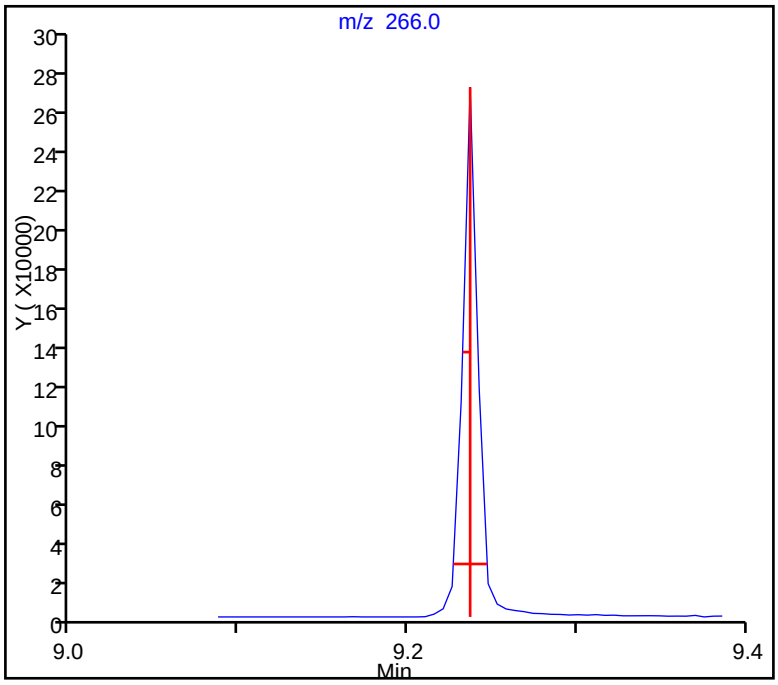
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170814-64854.b\W9932.D
Injection Date: 14-Aug-2017 18:45:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0184.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 28-Aug-2017 15:07:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0065199-002
Operator ID: PJQ Instrument ID: HP5973W

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 28-Aug-2017 15:30:45 Calib Date: 24-Aug-2017 16:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170824-65106.b\W0126.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: quirkp Date: 28-Aug-2017 15:30:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
248 Pentachlorophenol_T	266	9.183	9.183	0.000	92	238447	NR	NR	
249 DFTPP									
250 Benzidine_T	184	10.433	10.433	0.000	99	1291925	NR	NR	
251 4,4'-DDE	246	10.588	10.588	0.000	88	1408		NR	
252 4,4'-DDD	235	10.888	10.888	0.000	94	2389		NR	
253 4,4'-DDT	235	11.117	11.117	0.000	98	856614	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

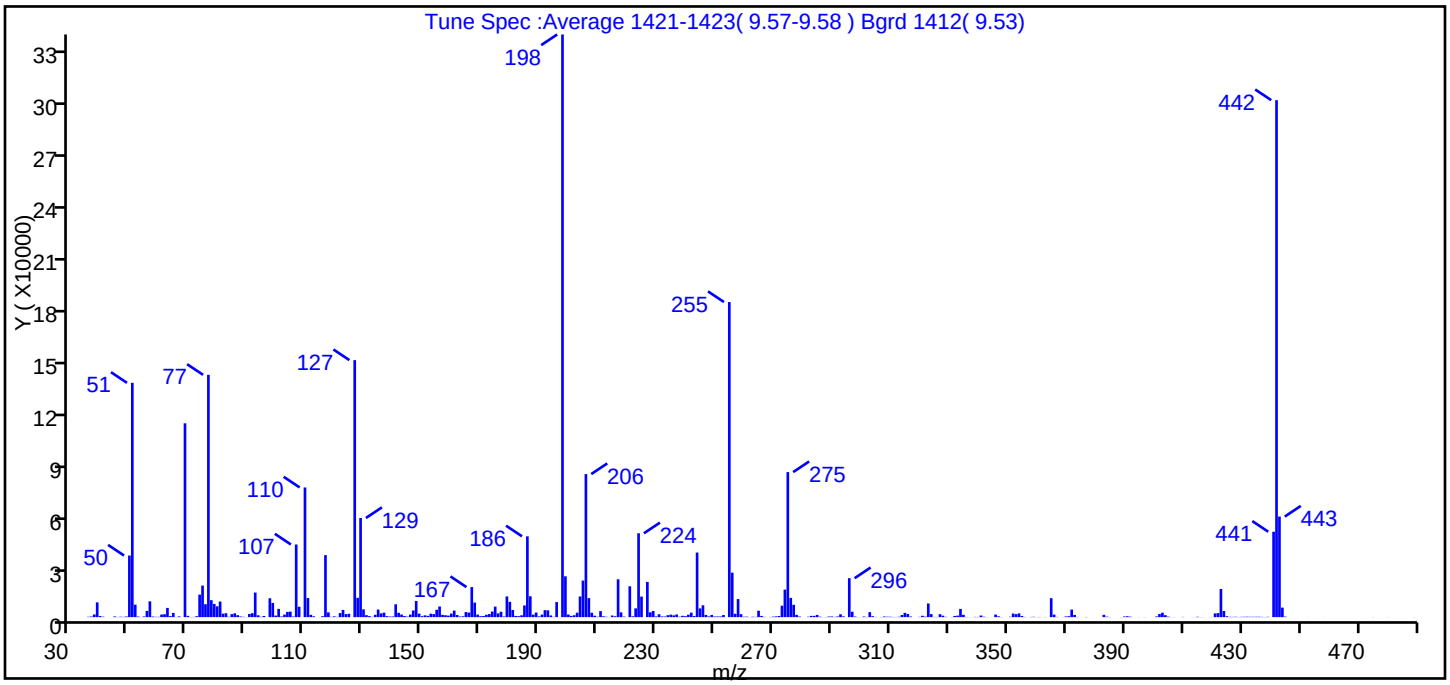
MB_DFTPP_WRK_00315 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0184.D
Injection Date: 28-Aug-2017 15:07:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Tune Method: DFTPP Method 8270D, BP 198

249 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (112.7)
51	10-80% of the base peak	40.2
68	<2% of mass 69	0.0 (0.0)
69	Present	33.3
70	<2% of mass 69	0.2 (0.7)
127	10-80% of the base peak	44.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	24.9
365	>1% of mass 198	3.3
441	present but <24% of mass 442	14.7 (16.5)
442	base peak, or >50% of 198	88.7
443	15-24% of mass 442	17.3 (19.5)

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0184.D\W-LVI-8270.rslt\spectra.d
Injection Date: 28-Aug-2017 15:07:30
Spectrum: Tune Spec :Average 1421-1423(9.57-9.58) Bgrd 1412(9.53)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 365

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	219	136.00	2207	231.00	1684	332.00	697
37.00	370	137.00	2626	232.00	410	333.00	883
38.00	1559	138.00	586	233.00	357	334.00	4806
39.00	8621	139.00	347	234.00	1134	335.00	1379
40.00	635	140.00	380	235.00	1453	336.00	111
41.00	263	141.00	7487	236.00	1040	337.00	52
45.00	427	142.00	2517	237.00	1557	339.00	153
46.00	110	143.00	1513	238.00	245	340.00	122
47.00	238	144.00	647	239.00	770	341.00	950
48.00	160	145.00	307	240.00	565	342.00	252
49.00	392	146.00	1485	241.00	1405	343.00	63
50.00	35904	147.00	3896	242.00	2619	346.00	1510
51.00	136576	148.00	9425	243.00	641	347.00	511
52.00	7273	149.00	2052	244.00	37648	348.00	78
53.00	352	150.00	560	245.00	5104	351.00	222
54.00	43	151.00	1038	246.00	6918	352.00	2091
55.00	387	152.00	774	247.00	1289	353.00	1762
56.00	3619	153.00	2010	248.00	438	354.00	2165
57.00	9222	154.00	1763	249.00	1294	355.00	680
58.00	355	155.00	4295	250.00	371	356.00	123
59.00	209	156.00	6213	251.00	385	358.00	108
60.00	181	157.00	1347	252.00	408	359.00	192
61.00	1497	158.00	1107	253.00	1252	360.00	51
62.00	1700	159.00	890	255.00	183680	361.00	114
63.00	5382	160.00	2075	256.00	25920	363.00	66
64.00	613	161.00	3817	257.00	1953	365.00	11051
65.00	2461	162.00	1236	258.00	10532	366.00	1447
66.00	74	163.00	397	259.00	1735	367.00	144
67.00	449	164.00	483	260.00	238	369.00	33
69.00	113000	165.00	2986	261.00	295	370.00	400
70.00	739	166.00	2663	262.00	46	371.00	549
71.00	82	167.00	17520	263.00	243	372.00	4422
72.00	123	168.00	8464	264.00	150	373.00	1280

Report Date: 28-Aug-2017 15:30:46 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0184.D\W-LVI-8270.rslt\spectra.d
Injection Date: 28-Aug-2017 15:07:30
Spectrum: Tune Spec :Average 1421-1423(9.57-9.58) Bgrd 1412(9.53)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 365

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	560	169.00	1478	265.00	3738	374.00	116
74.00	13108	170.00	560	266.00	708	377.00	98
75.00	18400	171.00	685	267.00	161	383.00	1362
76.00	7529	172.00	1394	269.00	122	384.00	284
77.00	141248	173.00	1799	270.00	305	385.00	94
78.00	9888	174.00	3274	271.00	453	389.00	68
79.00	7691	175.00	6130	272.00	686	390.00	391
80.00	6314	176.00	2166	273.00	6666	391.00	523
81.00	9095	177.00	3143	274.00	16052	392.00	283
82.00	2027	178.00	361	275.00	84544	393.00	39
83.00	2289	179.00	12078	276.00	11214	395.00	43
84.00	212	180.00	8906	277.00	7196	397.00	50
85.00	1764	181.00	4161	278.00	1311	401.00	407
86.00	2228	182.00	715	279.00	365	402.00	1807
87.00	1133	183.00	595	282.00	233	403.00	2586
88.00	378	184.00	1071	283.00	741	404.00	1126
89.00	194	185.00	6815	284.00	731	405.00	314
90.00	52	186.00	47104	285.00	1290	406.00	54
91.00	1852	187.00	12174	286.00	279	407.00	62
92.00	2283	188.00	1465	287.00	59	410.00	131
93.00	14323	189.00	2671	288.00	96	413.00	41
94.00	1091	190.00	441	289.00	346	414.00	52
95.00	225	191.00	1472	290.00	393	415.00	216
96.00	683	192.00	4074	291.00	145	416.00	63
98.00	11016	193.00	3976	292.00	395	417.00	43
99.00	8272	194.00	984	293.00	1671	419.00	43
100.00	897	195.00	174	294.00	453	420.00	46
101.00	4820	196.00	8779	296.00	22704	421.00	2175
102.00	394	198.00	339648	297.00	3159	422.00	2361
103.00	1506	199.00	23816	298.00	341	423.00	16440
104.00	3060	200.00	1530	299.00	56	424.00	3576
105.00	3232	201.00	716	300.00	35	425.00	526
106.00	360	202.00	1115	301.00	364	426.00	188
107.00	42360	203.00	2584	302.00	103	427.00	149

Report Date: 28-Aug-2017 15:30:46 Chrom Revision: 2.2 16-Aug-2017 16:24:46
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0184.D\W-LVI-8270.rslt\spectra.d
Injection Date: 28-Aug-2017 15:07:30
Spectrum: Tune Spec :Average 1421-1423(9.57-9.58) Bgrd 1412(9.53)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 365

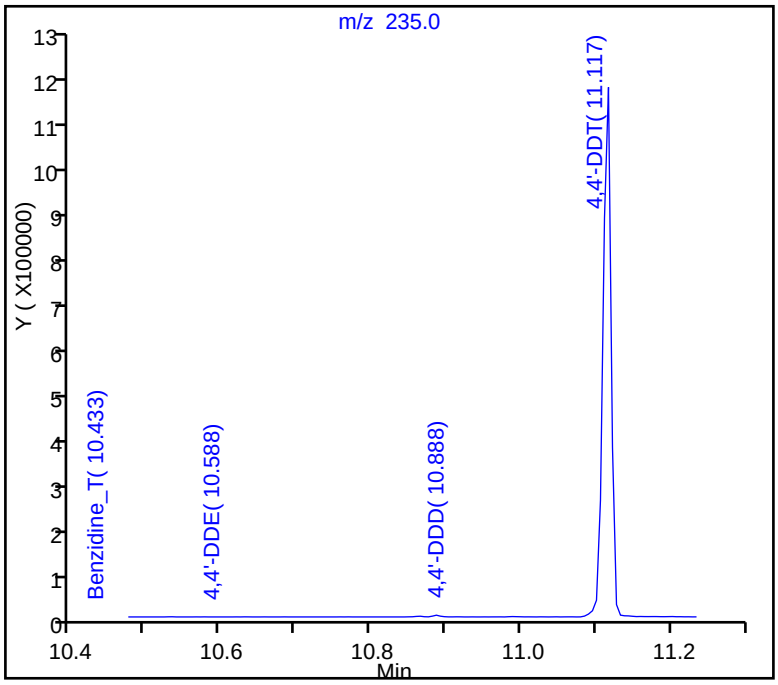
m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	6044	204.00	12045	303.00	2920	428.00	220
110.00	75600	205.00	21312	304.00	549	429.00	105
111.00	11122	206.00	83392	305.00	107	430.00	181
112.00	1337	207.00	11086	307.00	110	431.00	217
113.00	488	208.00	2561	308.00	387	432.00	248
115.00	25	209.00	829	309.00	232	433.00	206
116.00	548	210.00	235	310.00	246	434.00	206
117.00	36152	211.00	3514	311.00	111	435.00	231
118.00	2763	212.00	500	312.00	115	436.00	237
119.00	164	213.00	229	313.00	239	437.00	159
120.00	457	214.00	64	314.00	1235	438.00	86
121.00	155	215.00	942	315.00	2501	439.00	206
122.00	2360	216.00	508	316.00	1817	441.00	49784
123.00	4212	217.00	22064	317.00	368	442.00	301376
124.00	1780	218.00	2795	320.00	148	443.00	58624
125.00	1947	219.00	323	321.00	798	444.00	5549
127.00	149824	221.00	18000	322.00	304	445.00	320
128.00	11244	222.00	487	323.00	7960	453.00	35
129.00	57792	223.00	5116	324.00	1781	458.00	36
130.00	4554	224.00	48880	325.00	125	475.00	46
131.00	1160	225.00	11977	326.00	113	480.00	46
132.00	619	227.00	20520	327.00	1716	489.00	58
133.00	154	228.00	2828	328.00	870		
134.00	1373	229.00	3588	329.00	177		
135.00	4430	230.00	428	331.00	63		

Breakdown Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0184.D
Injection Date: 28-Aug-2017 15:07:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

253 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

253 4,4'-DDT, Area = 856614
252 4,4'-DDD, Area = 2389
251 4,4'-DDE, Area = 1408

%Breakdown: 0.44%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Buffalo

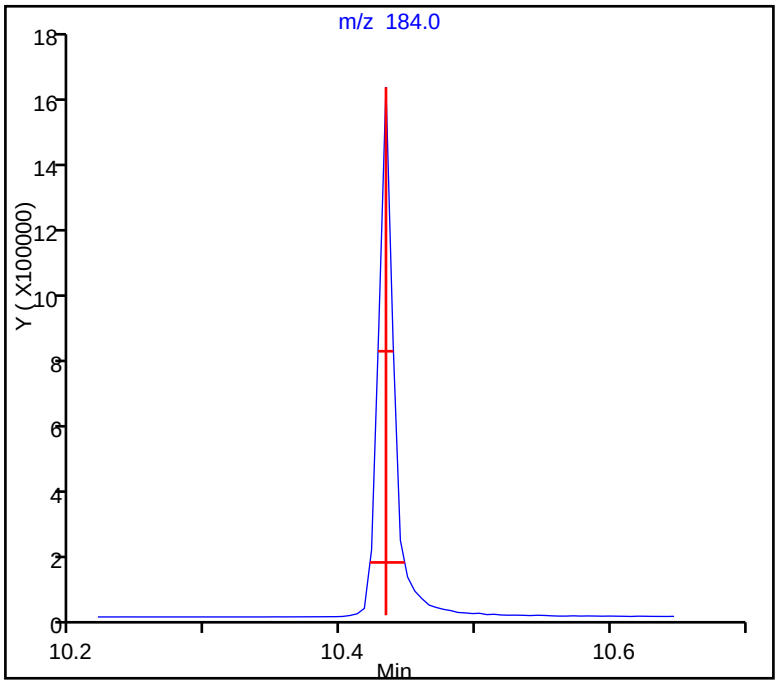
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0184.D
Injection Date: 28-Aug-2017 15:07:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

250 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.012 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Buffalo

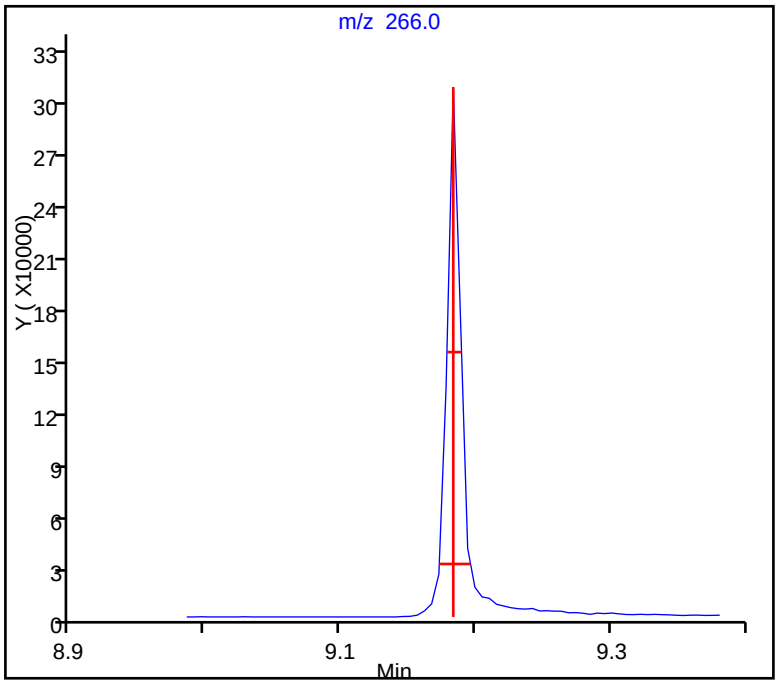
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0184.D
Injection Date: 28-Aug-2017 15:07:30 Instrument ID: HP5973W
Lims ID: DFTPP
Client ID:
Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL

248 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-374019/1-A

Matrix: Water | Lab File ID: W0187.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 16:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	ND		10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27
56-55-3	Benzo(a)anthracene	ND		5.0	0.36
50-32-8	Benzo(a)pyrene	ND		5.0	0.47
205-99-2	Benzo(b)fluoranthene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-374019/1-A

Matrix: Water | Lab File ID: W0187.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 16:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	ND		5.0	0.35
207-08-9	Benzo(k)fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	ND		5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-374019/1-A

Matrix: Water | Lab File ID: W0187.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 16:32

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	62		41-120
321-60-8	2-Fluorobiphenyl	67		48-120
367-12-4	2-Fluorophenol	58		35-120
4165-60-0	Nitrobenzene-d5	72		46-120
1718-51-0	p-Terphenyl-d14	78		59-136
4165-62-2	Phenol-d5	45		22-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0187.D
Lims ID: MB 480-374019/1-A
Client ID:
Sample Type: MB
Inject. Date: 28-Aug-2017 16:32:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0065199-005
Operator ID: PJQ Instrument ID: HP5973W

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2017 14:46:23 Calib Date: 24-Aug-2017 16:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170824-65106.b\W0126.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: quirkp Date: 29-Aug-2017 14:46:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.561	5.556	0.005	97	259409	4.00	4.00	
* 2 Naphthalene-d8	136	6.662	6.667	-0.005	100	1034923	4.00	4.00	
* 3 Acenaphthene-d10	164	8.115	8.120	-0.005	96	505008	4.00	4.00	
* 4 Phenanthrene-d10	188	9.327	9.327	0.000	97	916964	4.00	4.00	
* 5 Chrysene-d12	240	11.539	11.539	0.000	97	949675	4.00	4.00	
* 6 Perylene-d12	264	13.120	13.126	-0.006	98	863441	4.00	4.00	
$ 7 2-Fluorophenol	112	4.354	4.316	0.038	95	397558	8.00	4.61	
$ 8 Phenol-d5	99	5.278	5.267	0.011	95	381346	8.00	3.57	
$ 9 Nitrobenzene-d5	82	6.053	6.053	0.000	91	512394	8.00	5.74	
$ 10 2-Fluorobiphenyl	172	7.570	7.570	0.000	99	1006050	8.00	5.33	
$ 11 2,4,6-Tribromophenol	330	8.761	8.767	-0.006	94	135784	8.00	4.96	
$ 12 p-Terphenyl-d14	244	10.631	10.631	0.000	100	1255172	8.00	6.21	
13 o-Anisidine	1		0.750					ND	
14 1,4-Dioxane	88		2.201					ND	
15 N-Nitrosodimethylamine	42		2.564					ND	
16 Pyridine	52		2.564					ND	
18 Triethyl amine	86		3.558					ND	
20 2-Picoline	93		3.590					ND	
19 1-Methylcyclopentanol	71		3.624					ND	
21 N-Nitrosomethylethylamine	88		3.782					ND	
24 Methyl methanesulfonate	80		4.140					ND	
25 Acrylamide	44		4.268					ND	
22 2-Chlorobenzotrifluoride	180		4.292					ND	
23 4-Chlorobenzotrifluoride	180		4.372					ND	
26 n,n'-Dimethylacetamide	87		4.463					ND	
30 N-Nitrosodiethylamine	102		4.546					ND	
27 4-Chloropyridine	78		4.650					ND	
28 3-Chloropyridine	78		4.714					ND	
29 3-Chlorobenzotrifluoride	180		4.826					ND	
32 Ethyl methanesulfonate	79		4.872					ND	
31 2-Chloropyridine	78		5.115					ND	
36 Benzaldehyde	77		5.155					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
38 Aniline	93		5.267					ND	
37 Phenol	94		5.278					ND	
33 2-Chlorotoluene	91		5.280					ND	
39 Pentachloroethane	167		5.289					ND	
34 3-Chlorotoluene	91		5.307					ND	
40 Bis(2-chloroethyl)ether	93		5.337					ND	
35 4-Chlorotoluene	91		5.345					ND	
41 2-Chlorophenol	128		5.369					ND	
43 n-Decane	57	5.444	5.438	0.006	93	8628		0.0692	
44 1,3-Dichlorobenzene	146		5.502					ND	
45 1,4-Dichlorobenzene	146		5.567					ND	
42 p-Fluoroaniline	111		5.676					ND	
47 1,2-Dichlorobenzene	146		5.705					ND	
46 Benzyl alcohol	108		5.705					ND	
48 Indene	115	5.791	5.791	0.000	89	1437		0.009639	
49 2-Methylphenol	108		5.818					ND	
50 2,2'-oxybis[1-chloropropan	45		5.823					ND	
52 N-Nitrosopyrrolidine	100		5.909					ND	
53 Acetophenone	105	5.930	5.930	0.000	92	6344		0.0514	
55 N-Nitrosodi-n-propylamine	70		5.941					ND	
54 N-Nitrosomorpholine	56		5.946					ND	
56 4-Methylphenol	108		5.957					ND	
57 2-Toluidine	106		5.957					ND	
58 4-Methylbenzenamine	106		5.962					ND	
59 Hexachloroethane	117		5.999					ND	
61 Nitrobenzene	77		6.074					ND	
51 N-Methylaniline	106		6.130					ND	
240 2,4-Dichlorotoluene	125		6.186					ND	
62 N-Nitrosopiperidine	114		6.202					ND	
231 1,3,5-Trichlorobenzene	180		6.266					ND	
63 Isophorone	82		6.282					ND	
65 2-Chloroaniline	127		6.320					ND	
60 2,6-Dichloropyridine	112		6.338					ND	
67 2-Nitrophenol	139		6.347					ND	
68 2,4-Dimethylphenol	107		6.405					ND	
69 Tetraethyl lead	237		6.427					ND	
70 o,o',o''-Triethylphosphoro	198		6.459					ND	
71 Bis(2-chloroethoxy)methane	93		6.475					ND	
73 alpha,alpha-Dimethyl phene	58		6.550					ND	
74 2,4-Dichlorophenol	162		6.560					ND	
64 Benzeneacetonitrile	117		6.573					ND	
72 Benzoic acid	105		6.576					ND	
222 4-Chlorophenol	128		6.592					ND	
66 n,n'-Dimethylaniline	120	6.662	6.607	0.055	44	393		NC	
75 1,2,4-Trichlorobenzene	180		6.619					ND	
76 Naphthalene	128	6.678	6.683	-0.005	91	9340		0.0357	
77 Alpha-Terpineol	59		6.699					ND	
78 4-Chloroaniline	127		6.742					ND	
79 2,6-Dichlorophenol	162		6.747					ND	
80 Hexachloropropene	213		6.763					ND	
81 Hexachlorobutadiene	225		6.801					ND	
83 Quinoline	129		6.961					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
86 N-Nitrosodi-n-butylamine	84		7.025					ND	
85 p-Phenylene diamine	108		7.030					ND	
84 Caprolactam	113		7.062					ND	
211 2,4,5-Trichlorotoluene	159		7.148					ND	
87 4-Chloro-3-methylphenol	107		7.164					ND	
82 Benzeneacetic acid (TIC)	91		7.188					ND	
88 Safrole, Total	162		7.196					ND	
89 2-Methylnaphthalene	142	7.260	7.265	-0.005	94	1786		0.0102	
90 Phthalic anhydride	104		7.308					ND	
91 1-Methylnaphthalene	142	7.346	7.346	0.000	91	1169		0.006901	
93 Hexachlorocyclopentadiene	237		7.399					ND	
92 1,2,4,5-Tetrachlorobenzene	216		7.404					ND	
288 Isosafrole Peak 1	162		7.436					ND	
247 2,3-Dichlorobenzenamine	161	7.565	7.501	0.064	22	95		NC	
94 2,4,6-Trichlorophenol	196		7.506					ND	
95 2,4,5-Trichlorophenol	196		7.543					ND	
207 1,2,3,4 -Tetrachlorobenzen	216		7.548					ND	
97 1,1'-Biphenyl	154		7.650					ND	
98 2-Chloronaphthalene	162		7.661					ND	
99 1-Chloronaphthalene	162		7.682					ND	
290 Isosafrole Peak 2	162		7.682					ND	
96 Isosafrole	162		7.682					ND	
100 2-Nitroaniline	65		7.757					ND	
101 1,4-Naphthoquinone	158		7.805					ND	
102 Dicyclohexylamine	138		7.832					ND	
103 1,4-Dinitrobenzene	168		7.864					ND	
104 Dimethyl phthalate	163		7.906					ND	
105 1,3-Dinitrobenzene	168		7.928					ND	
203 Phenyl ether	170		7.937					ND	
106 2,6-Dinitrotoluene	165		7.955					ND	
107 Acenaphthylene	152		8.003					ND	
108 3-Nitroaniline	138		8.093					ND	
109 Acenaphthene	153		8.147					ND	
110 2,4-Dinitrophenol	184		8.179					ND	
111 4-Nitrophenol	109		8.248					ND	
112 Pentachlorobenzene	250		8.259					ND	
113 2,4-Dinitrotoluene	165		8.280					ND	
114 Dibenzofuran	168		8.286					ND	
115 1-Naphthylamine	143		8.350					ND	
117 2,3,4,6-Tetrachlorophenol	232		8.398					ND	
118 2-Naphthylamine	143		8.414					ND	
116 2,3,5,6-Tetrachlorophenol	232		8.425					ND	
119 Diethyl phthalate	149		8.483					ND	
120 Hexadecane	57	8.499	8.499	0.000	88	2816		0.0216	
121 Thionazin	97		8.542					ND	
122 4-Chlorophenyl phenyl ethe	204		8.569					ND	
123 Fluorene	166		8.569					ND	
124 N-Nitro-o-toluidine	152		8.580					ND	
125 4-Nitroaniline	138		8.590					ND	
126 4,6-Dinitro-2-methylphenol	198		8.617					ND	
127 Tributyl phosphate	99		8.660					ND	
129 N-Nitrosodiphenylamine	169		8.670					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
128 Diphenylamine	169		8.670					ND	
130 1,2-Diphenylhydrazine	77		8.697					ND	
131 Azobenzene	77		8.697					ND	
132 Sulfotepp	322		8.804					ND	
198 Benzophenone	105		8.910					ND	
134 Phorate	75		8.911					ND	
136 Phenacetin	108		8.927					ND	
137 4-Bromophenyl phenyl ether	248		8.964					ND	
133 1,3,5-Trinitrobenzene	213		8.970					ND	
293 Diallate Peak 2	43		8.975					ND	
135 Diallate	43		8.975					ND	
291 Diallate Peak 1	43		8.975					ND	
138 Hexachlorobenzene	284		9.023					ND	
139 Dimethoate	87		9.044					ND	
140 Simazine	201		9.082					ND	
141 Atrazine	200		9.114					ND	
143 Pentachlorophenol	266		9.183					ND	
142 4-Aminobiphenyl	169		9.183					ND	
144 Pentachloronitrobenzene	237		9.194					ND	
145 Pronamide	173		9.237					ND	
146 n-Octadecane	57	9.253	9.253	0.000	91	1595		0.0125	
147 Disulfoton	88		9.333					ND	
148 Dinoseb	211		9.338					ND	
149 Phenanthrene	178	9.344	9.349	-0.005	89	4101		0.0152	
150 Anthracene	178		9.392					ND	
151 Carbazole	167		9.525					ND	
152 Methyl parathion	109		9.637					ND	
153 Alachlor	160		9.643					ND	
205 2-Methylanthracene	192	9.664	9.712	-0.048	47	214		NC	
154 Di-n-butyl phthalate	149	9.814	9.814	0.000	99	4776		0.0279	
156 Ethyl Parathion	97		9.958					ND	
157 4-Nitroquinoline-1-oxide	190		9.979					ND	
158 Anthraquinone	180		10.001					ND	
159 Methapyrilene	58		10.049					ND	
155 CBF-400	214		10.173					ND	
160 Isodrin	193		10.193					ND	
161 Fluoranthene	202	10.316	10.316	0.000	94	1482		0.0235	
162 1-Hydroxyanthraquinone	224		10.353					ND	
164 Benzidine	184		10.433					ND	
165 Pyrene	202		10.503					ND	
166 Aramite, Total	185		10.679					ND	
292 Aramite Peak 2	185		10.679					ND	
289 Aramite Peak 1	185		10.679					ND	
163 Octachlorostyrene	308		10.697					ND	
167 1,4-Dihydroxyanthraquinone	240		10.727					ND	
168 p-Dimethylamino azobenzene	120		10.749					ND	
169 Chlorobenzilate	139		10.786					ND	
170 Famphur	218		10.989					ND	
171 3,3'-Dimethylbenzidine	212		11.026					ND	
172 Butyl benzyl phthalate	149	11.032	11.037	-0.005	95	2914		0.1217	
173 9-Octadecenamide	72		11.048					ND	
174 Kepone	272		11.091					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
175 2-Acetylaminofluorene	181		11.245					ND	
177 3,3'-Dichlorobenzidine	252		11.512					ND	
178 4,4'-Methylene bis(2-chlor	231		11.513					ND	
179 Benzo[a]anthracene	228		11.528					ND	
181 Chrysene	228		11.566					ND	
180 Bis(2-ethylhexyl) phthalat	149	11.561	11.566	-0.005	85	2289		0.1089	
176 CAG-800	149		11.569					ND	
182 NVF-400	82		12.025					ND	
183 6-Methylchrysene	242		12.025					ND	
184 Di-n-octyl phthalate	149		12.239					ND	
185 7,12-Dimethylbenz(a)anthra	256		12.661					ND	
186 Benzo[b]fluoranthene	252		12.672					ND	
187 Benzo[k]fluoranthene	252		12.704					ND	
206 Benzo[e]pyrene	252		12.843					ND	
188 Hexachlorophene	196		12.923					ND	
189 Benzo[a]pyrene	252		13.051					ND	
190 3-Methylcholanthrene	252		13.564					ND	
192 Dibenz[a,h]acridine	279		14.253					ND	
193 Indeno[1,2,3-cd]pyrene	276		14.461					ND	
194 Dibenz(a,h)anthracene	278		14.488					ND	
195 Benzo[g,h,i]perylene	276		14.798					ND	
196 Dibenzo[a,e]pyrene	302		17.795					ND	
208 Lidocaine	1		0.000					ND	
210 5-Ethyl-5-phenyl barbituri	1		0.000					ND	
209 1,4-Dioxane TIC	1		0.000					ND	
199 4-tert-Octylphenol	1		0.000					ND	
197 1,2,3-Trimethylbenzene	105		0.000					ND	
202 4-Chloro-3-nitro-alpha,alp	1		0.000					ND	
235 Pendimethalin	1		0.750					ND	
234 Dibenzo[a,h]pyrene	1		0.750					ND	
237 4,4'-Methylene bis(2-chlor	1		0.750					ND	
236 2,6-Dichlorotoluene	1		0.750					ND	
230 Dibenz(a,i)pyrene	1		0.750					ND	
229 7H-Dibenzo[c,g]carbazole	1		0.750					ND	
233 o-Anisidine TIC	1		0.750					ND	
232 5-Methyl-o-Anisidine TIC	1		0.750					ND	
244 2,4-Toluene diamine	1		0.750					ND	
243 2-Chlorobenzotrifluoride T	1		0.750					ND	
246 Phenylacetic Acid	1		0.750					ND	
245 3-Chlorobenzotrifluoride T	1		0.750					ND	
239 2,3,7,8-TCDD	1		0.750					ND	
238 Benefin (TIC)	1		0.750					ND	
242 Tris(2,3-dibromopropyl)pho	1		0.750					ND	
241 5-Methyl-o-Anisidine	1		0.750					ND	
217 Dibenz[a,j]acridine	279		0.750					ND	
216 alpha,alpha-Dimethyl phene	1		0.750					ND	
219 2,4-Xylidine TIC	1		0.750					ND	
218 Pendimethalin (TIC)	1		0.750					ND	
213 Prometryn (TIC)	1		0.750					ND	
212 trans Azobenzene (TIC)	1		0.750					ND	
215 1,3-phenylenediamine TIC	1		0.750					ND	
214 2,3-Dichlorophenol	1		0.750					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
226 Phenylmercaptan	110		0.750					ND	
225 2,4-Dichlorotoluene TIC	1		0.750					ND	
228 Benzo[j]fluoranthene	1		0.750					ND	
227 2,6-Dichlorotoluene TIC	1		0.750					ND	
221 Hexamethyldisiloxane TIC	1		0.750					ND	
220 Tetramethyl lead TIC	1		0.750					ND	
224 4-Chlorobenzotrifluoride T	1		0.750					ND	
223 1-Bromopropane	1		0.750					ND	
252 4,4'-DDD	235	10.914	10.888	0.026	53	84		NR	7
254 CBF-500	161	11.983	11.968	0.015	0	75		NR	7
255 CN-500	112	14.867	14.880	-0.013	0	33		NR	7
256 CU-600	58	14.969	14.949	0.020	0	136		NR	7
S 259 EPH Adjustment 1	1		0.750					ND	
S 257 3 & 4 Methylphenol	108		0.750					ND	
S 260 Chlorobenzotrifluoride N.O	1		0.750					ND	
S 258 3-Methylphenol	1		0.750					ND	
S 262 Total Cresols	1		0.750					ND	
S 261 Chlorotoluene N.O.S	1		0.750					ND	
T 287 2-Aminopyridine TIC	94	7.004	6.924	0.087	19	579		0.008928	
T 264 1-Methylnaphthalene (TIC)	142		7.857					ND	
T 265 Photomirex TIC	272		16.000					ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard
NC - Not Calibrated
7 - Failed Limit of Detection

Reagents:

MB_LLIS_WRK_00134 Amount Added: 20.00 Units: uL Run Reagent

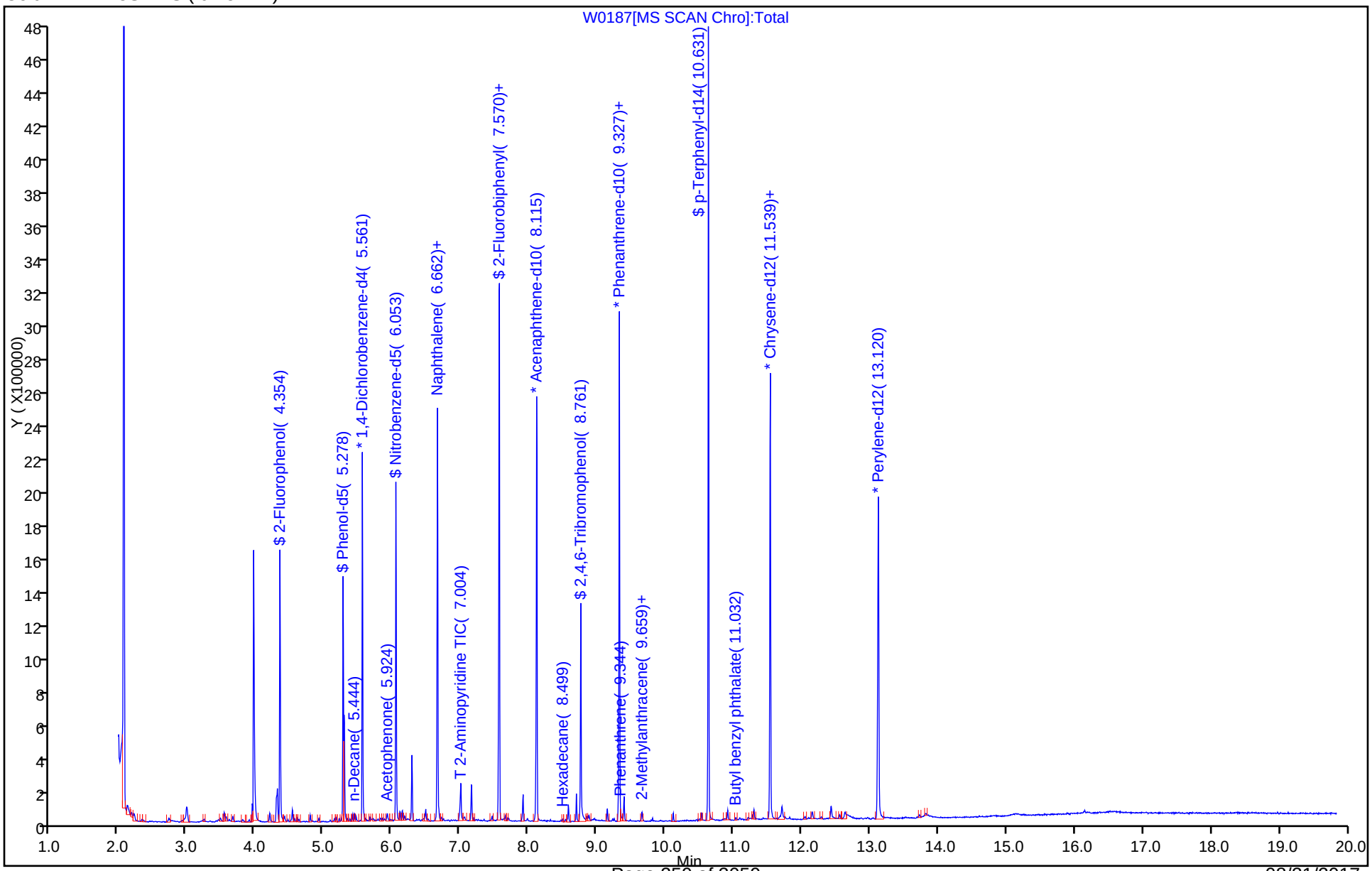
Report Date: 29-Aug-2017 14:46:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0187.D

Injection Date:	28-Aug-2017 16:32:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	MB 480-374019/1-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-374019/2-A

Matrix: Water | Lab File ID: W0188.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 17:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	24.2		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	24.5		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	26.6		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	25.4		5.0	0.61
120-83-2	2,4-Dichlorophenol	25.2		5.0	0.51
105-67-9	2,4-Dimethylphenol	24.6		5.0	0.50
51-28-5	2,4-Dinitrophenol	58.7		10	2.2
121-14-2	2,4-Dinitrotoluene	27.6		5.0	0.45
606-20-2	2,6-Dinitrotoluene	25.9		5.0	0.40
91-58-7	2-Chloronaphthalene	23.7		5.0	0.46
95-57-8	2-Chlorophenol	23.4		5.0	0.53
91-57-6	2-Methylnaphthalene	24.1		5.0	0.60
95-48-7	2-Methylphenol	22.5		5.0	0.40
88-74-4	2-Nitroaniline	26.2		10	0.42
88-75-5	2-Nitrophenol	26.3		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	76.1		5.0	0.40
99-09-2	3-Nitroaniline	22.7		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	74.1		10	2.2
101-55-3	4-Bromophenyl phenyl ether	25.5		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	25.6		5.0	0.45
106-47-8	4-Chloroaniline	18.0		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	25.2		5.0	0.35
106-44-5	4-Methylphenol	22.2		10	0.36
100-01-6	4-Nitroaniline	26.6		10	0.25
100-02-7	4-Nitrophenol	46.2		10	1.5
83-32-9	Acenaphthene	23.4		5.0	0.41
208-96-8	Acenaphthylene	24.5		5.0	0.38
98-86-2	Acetophenone	23.7		5.0	0.54
120-12-7	Anthracene	25.7		5.0	0.28
1912-24-9	Atrazine	57.6		5.0	0.46
100-52-7	Benzaldehyde	35.7		5.0	0.27
56-55-3	Benzo(a)anthracene	27.2		5.0	0.36
50-32-8	Benzo(a)pyrene	25.5		5.0	0.47
205-99-2	Benzo(b)fluoranthene	26.5		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-374019/2-A

Matrix: Water | Lab File ID: W0188.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 17:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo(g,h,i)perylene	26.1		5.0	0.35
207-08-9	Benzo(k)fluoranthene	25.9		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	23.9		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	22.1		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	25.5		5.0	2.2
85-68-7	Butyl benzyl phthalate	26.2		5.0	1.0
105-60-2	Caprolactam	22.4		5.0	2.2
86-74-8	Carbazole	28.0		5.0	0.30
218-01-9	Chrysene	25.5		5.0	0.33
84-74-2	Di-n-butyl phthalate	27.5		5.0	0.31
117-84-0	Di-n-octyl phthalate	26.0		5.0	0.47
53-70-3	Dibenz(a,h)anthracene	25.9		5.0	0.42
132-64-9	Dibenzofuran	24.6		10	0.51
84-66-2	Diethyl phthalate	26.9		5.0	0.22
131-11-3	Dimethyl phthalate	27.1		5.0	0.36
206-44-0	Fluoranthene	27.0		5.0	0.40
86-73-7	Fluorene	24.9		5.0	0.36
118-74-1	Hexachlorobenzene	25.6		5.0	0.51
87-68-3	Hexachlorobutadiene	21.5		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	17.3		5.0	0.59
67-72-1	Hexachloroethane	20.6		5.0	0.59
193-39-5	Indeno(1,2,3-cd)pyrene	26.0		5.0	0.47
78-59-1	Isophorone	24.8		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	24.1		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	25.3		5.0	0.51
91-20-3	Naphthalene	22.6		5.0	0.76
98-95-3	Nitrobenzene	24.3		5.0	0.29
87-86-5	Pentachlorophenol	49.4		10	2.2
85-01-8	Phenanthrene	24.8		5.0	0.44
108-95-2	Phenol	15.8		5.0	0.39
129-00-0	Pyrene	26.4		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-374019/2-A

Matrix: Water | Lab File ID: W0188.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 08/25/2017 14:21

Sample wt/vol: 250(mL) | Date Analyzed: 08/28/2017 17:01

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374280 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol	87		41-120
321-60-8	2-Fluorobiphenyl	77		48-120
367-12-4	2-Fluorophenol	65		35-120
4165-60-0	Nitrobenzene-d5	80		46-120
1718-51-0	p-Terphenyl-d14	83		59-136
4165-62-2	Phenol-d5	53		22-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0188.D
Lims ID: LCS 480-374019/2-A
Client ID:
Sample Type: LCS
Inject. Date: 28-Aug-2017 17:01:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0065199-006
Operator ID: PJQ Instrument ID: HP5973W

Method: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W-LVI-8270.m
Limit Group: MB - 8270D ICAL
Last Update: 29-Aug-2017 16:13:34 Calib Date: 24-Aug-2017 16:32:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973W\20170824-65106.b\W0126.D

Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: quirkp Date: 29-Aug-2017 16:13:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.567	5.556	0.010	97	274496	4.00	4.00	
* 2 Naphthalene-d8	136	6.667	6.667	0.000	99	1097632	4.00	4.00	
* 3 Acenaphthene-d10	164	8.120	8.120	0.000	95	542865	4.00	4.00	
* 4 Phenanthrene-d10	188	9.333	9.327	0.006	97	999873	4.00	4.00	
* 5 Chrysene-d12	240	11.544	11.539	0.005	97	1052957	4.00	4.00	
* 6 Perylene-d12	264	13.126	13.126	0.000	98	961278	4.00	4.00	
$ 7 2-Fluorophenol	112	4.370	4.316	0.054	93	475683	8.00	5.21	
$ 8 Phenol-d5	99	5.289	5.267	0.022	96	480222	8.00	4.24	
$ 9 Nitrobenzene-d5	82	6.058	6.053	0.005	91	606473	8.00	6.41	
$ 10 2-Fluorobiphenyl	172	7.570	7.570	0.000	100	1244577	8.00	6.14	
$ 11 2,4,6-Tribromophenol	330	8.767	8.767	-0.001	94	210705	8.00	7.00	
$ 12 p-Terphenyl-d14	244	10.631	10.631	0.000	99	1487896	8.00	6.63	
14 1,4-Dioxane	88	2.350	2.201	0.149	96	160954	8.00	3.90	
15 N-Nitrosodimethylamine	42	2.682	2.564	0.118	90	262167	8.00	4.84	
16 Pyridine	52	2.703	2.564	0.139	82	543237	16.0	6.53	
36 Benzaldehyde	77	5.171	5.155	0.016	92	675376	16.0	8.92	
38 Aniline	93	5.278	5.267	0.011	98	586442	8.00	4.02	
37 Phenol	94	5.299	5.278	0.021	99	510167	8.00	3.96	
40 Bis(2-chloroethyl)ether	93	5.347	5.337	0.010	96	568326	8.00	5.53	
41 2-Chlorophenol	128	5.385	5.369	0.016	97	561613	8.00	5.85	
43 n-Decane	57	5.449	5.438	0.011	93	610715	8.00	4.63	
44 1,3-Dichlorobenzene	146	5.513	5.502	0.011	98	587488	8.00	5.33	
45 1,4-Dichlorobenzene	146	5.583	5.567	0.016	94	600133	8.00	5.32	
47 1,2-Dichlorobenzene	146	5.716	5.705	0.011	95	572019	8.00	5.38	
46 Benzyl alcohol	108	5.716	5.705	0.011	88	337341	8.00	5.44	
48 Indene	115	5.796	5.791	0.005	90	3441137	32.0	21.8	
49 2-Methylphenol	108	5.828	5.818	0.010	97	509755	8.00	5.63	
50 2,2'-oxybis[1-chloropropan	45	5.828	5.823	0.005	94	969019	8.00	6.12	
53 Acetophenone	105	5.930	5.930	0.000	96	775483	8.00	5.94	
55 N-Nitrosodi-n-propylamine	70	5.946	5.941	0.006	92	407856	8.00	6.02	
56 4-Methylphenol	108	5.967	5.957	0.010	94	515584	8.00	5.56	
59 Hexachloroethane	117	6.005	5.999	0.006	96	229541	8.00	5.16	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
61 Nitrobenzene	77	6.074	6.074	0.000	90	575696	8.00	6.07	
63 Isophorone	82	6.288	6.282	0.006	98	1073501	8.00	6.20	
67 2-Nitrophenol	139	6.346	6.347	-0.001	96	320923	8.00	6.58	
68 2,4-Dimethylphenol	107	6.411	6.405	0.006	96	567679	8.00	6.16	
71 Bis(2-chloroethoxy)methane	93	6.480	6.475	0.005	98	673788	8.00	5.97	
74 2,4-Dichlorophenol	162	6.560	6.560	0.000	94	494384	8.00	6.30	
72 Benzoic acid	105	6.576	6.576	0.000	90	932232	32.0	18.2	M
75 1,2,4-Trichlorobenzene	180	6.619	6.619	0.000	94	520177	8.00	5.64	
76 Naphthalene	128	6.683	6.683	0.000	98	1565821	8.00	5.65	
78 4-Chloroaniline	127	6.742	6.742	0.000	97	485735	8.00	4.49	
79 2,6-Dichlorophenol	162	6.747	6.747	0.000	97	485496	8.00	6.31	
81 Hexachlorobutadiene	225	6.795	6.801	-0.006	95	286348	8.00	5.39	
84 Caprolactam	113	7.057	7.062	-0.005	78	156823	16.0	5.59	M
87 4-Chloro-3-methylphenol	107	7.169	7.164	0.005	96	487593	8.00	6.40	
89 2-Methylnaphthalene	142	7.260	7.265	-0.005	93	1118650	8.00	6.01	
91 1-Methylnaphthalene	142	7.345	7.346	-0.001	93	1086662	8.00	6.05	
93 Hexachlorocyclopentadiene	237	7.399	7.399	0.000	95	271879	8.00	4.34	
92 1,2,4,5-Tetrachlorobenzene	216	7.404	7.404	0.000	97	514803	8.00	5.74	
94 2,4,6-Trichlorophenol	196	7.506	7.506	0.000	91	364322	8.00	6.35	
95 2,4,5-Trichlorophenol	196	7.543	7.543	0.000	93	374904	8.00	6.64	
97 1,1'-Biphenyl	154	7.650	7.650	0.000	96	1387293	8.00	6.04	
98 2-Chloronaphthalene	162	7.661	7.661	0.000	97	1060003	8.00	5.92	
100 2-Nitroaniline	65	7.757	7.757	0.000	87	322247	8.00	6.55	
104 Dimethyl phthalate	163	7.912	7.906	0.006	100	1272943	8.00	6.78	
105 1,3-Dinitrobenzene	168	7.933	7.928	0.005	96	214743	8.00	7.46	
106 2,6-Dinitrotoluene	165	7.954	7.955	-0.001	95	289466	8.00	6.48	
107 Acenaphthylene	152	8.003	8.003	0.000	98	1503014	8.00	6.12	
108 3-Nitroaniline	138	8.093	8.093	0.000	95	256683	8.00	5.67	
109 Acenaphthene	153	8.147	8.147	0.000	94	1086865	8.00	5.84	
110 2,4-Dinitrophenol	184	8.179	8.179	0.000	87	359736	16.0	14.7	
111 4-Nitrophenol	109	8.254	8.248	0.006	93	270587	16.0	11.6	
113 2,4-Dinitrotoluene	165	8.286	8.280	0.006	94	407163	8.00	6.91	
114 Dibenzofuran	168	8.286	8.286	0.000	96	1468620	8.00	6.14	
117 2,3,4,6-Tetrachlorophenol	232	8.398	8.398	0.000	72	317538	8.00	6.66	
119 Diethyl phthalate	149	8.489	8.483	0.006	99	1236772	8.00	6.73	
120 Hexadecane	57	8.499	8.499	0.000	89	847759	8.00	6.04	
122 4-Chlorophenyl phenyl ethe	204	8.569	8.569	0.000	78	620763	8.00	6.30	
123 Fluorene	166	8.569	8.569	0.000	93	1205520	8.00	6.21	
125 4-Nitroaniline	138	8.601	8.590	0.011	88	315080	8.00	6.65	M
126 4,6-Dinitro-2-methylphenol	198	8.622	8.617	0.005	90	462243	16.0	18.5	
129 N-Nitrosodiphenylamine	169	8.670	8.670	0.000	61	889880	8.00	6.33	
128 Diphenylamine	169	8.670	8.670	0.000	93	889880	6.84	5.41	
130 1,2-Diphenylhydrazine	77	8.697	8.697	0.000	98	1186194	8.00	6.25	
131 Azobenzene	77	8.697	8.697	0.000	98	1186194	8.00	6.07	
137 4-Bromophenyl phenyl ether	248	8.970	8.964	0.006	67	359367	8.00	6.38	
138 Hexachlorobenzene	284	9.023	9.023	0.000	95	399526	8.00	6.39	
141 Atrazine	200	9.119	9.114	0.005	94	757748	16.0	14.4	
143 Pentachlorophenol	266	9.189	9.183	0.006	92	407436	16.0	12.3	
146 n-Octadecane	57	9.253	9.253	0.000	92	895294	8.00	6.43	
149 Phenanthrene	178	9.349	9.349	0.000	98	1822749	8.00	6.20	
150 Anthracene	178	9.392	9.392	0.000	97	1857902	8.00	6.41	
151 Carbazole	167	9.530	9.525	0.005	96	1527355	8.00	7.01	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
154 Di-n-butyl phthalate	149	9.814	9.814	0.000	100	2031094	8.00	6.88	
161 Fluoranthene	202	10.321	10.316	0.005	98	1990021	8.00	6.75	
164 Benzidine	184	10.433	10.433	0.000	99	166461	16.0	1.83	
165 Pyrene	202	10.503	10.503	0.000	97	2063341	8.00	6.59	
172 Butyl benzyl phthalate	149	11.037	11.037	0.000	97	925310	8.00	6.56	
177 3,3'-Dichlorobenzidine	252	11.518	11.512	0.006	73	1327423	16.0	19.0	E
179 Benzo[a]anthracene	228	11.534	11.528	0.006	98	2074186	8.00	6.80	
181 Chrysene	228	11.571	11.566	0.005	97	1929268	8.00	6.38	
180 Bis(2-ethylhexyl) phthalat	149	11.566	11.566	0.000	95	1334251	8.00	6.37	
184 Di-n-octyl phthalate	149	12.244	12.239	0.005	99	2247070	8.00	6.49	
186 Benzo[b]fluoranthene	252	12.677	12.672	0.005	97	2007528	8.00	6.63	
187 Benzo[k]fluoranthene	252	12.709	12.704	0.005	98	1947838	8.00	6.47	
189 Benzo[a]pyrene	252	13.062	13.051	0.011	77	1799177	8.00	6.37	
193 Indeno[1,2,3-cd]pyrene	276	14.472	14.461	0.011	98	2325079	8.00	6.50	M
194 Dibenz(a,h)anthracene	278	14.504	14.488	0.016	92	1989298	8.00	6.47	
195 Benzo[g,h,i]perylene	276	14.814	14.798	0.016	98	1981560	8.00	6.52	
S 258 3-Methylphenol	1				0		8.00	5.56	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

MB_LLIS_WRK_00134 Amount Added: 20.00 Units: uL Run Reagent

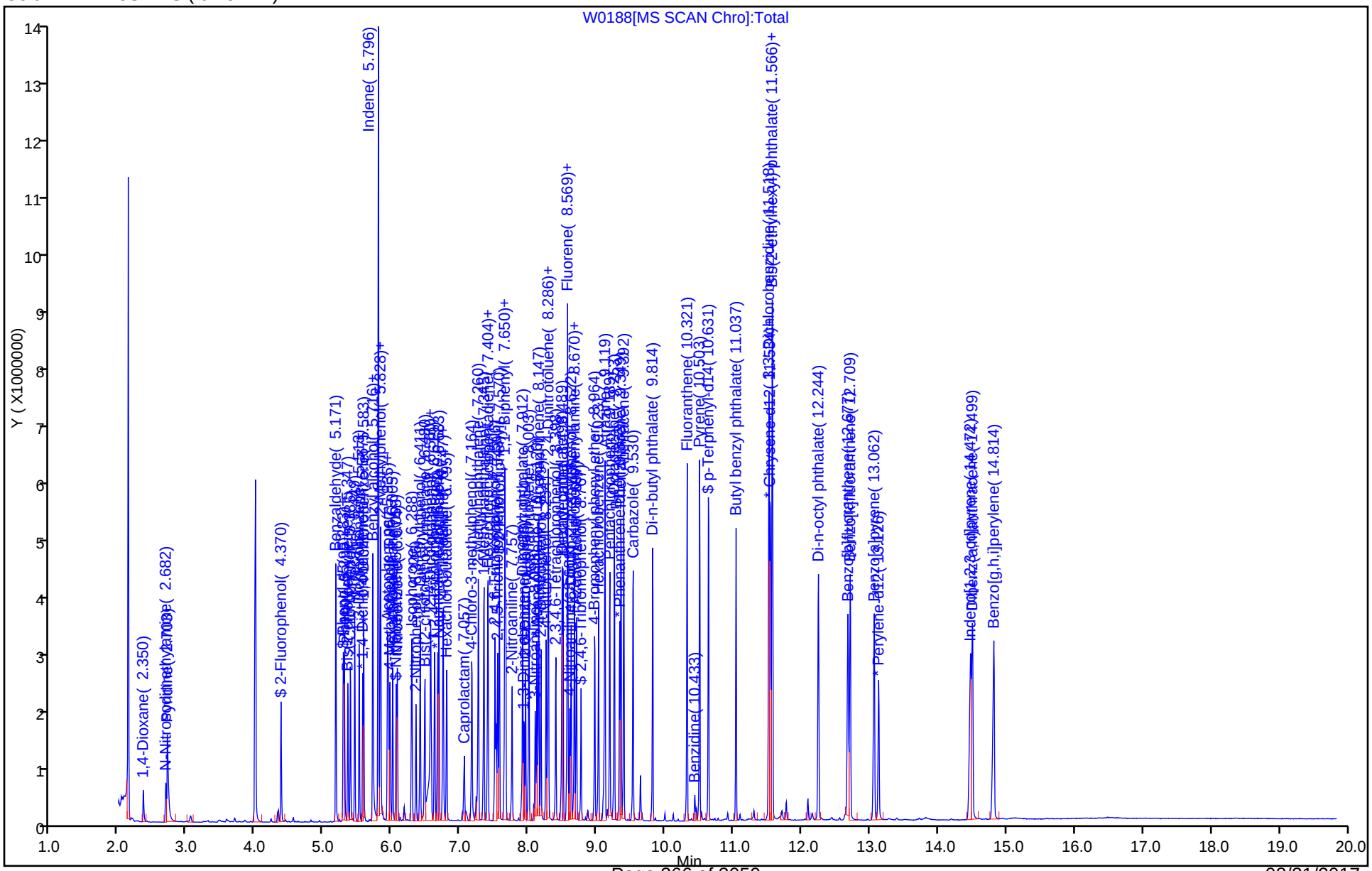
Report Date: 29-Aug-2017 16:13:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0188.D

Injection Date:	28-Aug-2017 17:01:30	Instrument ID:	HP5973W	Operator ID:	PJQ
Lims ID:	LCS 480-374019/2-A			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	W-LVI-8270	Limit Group:	MB - 8270D ICAL		

Column: RXI-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

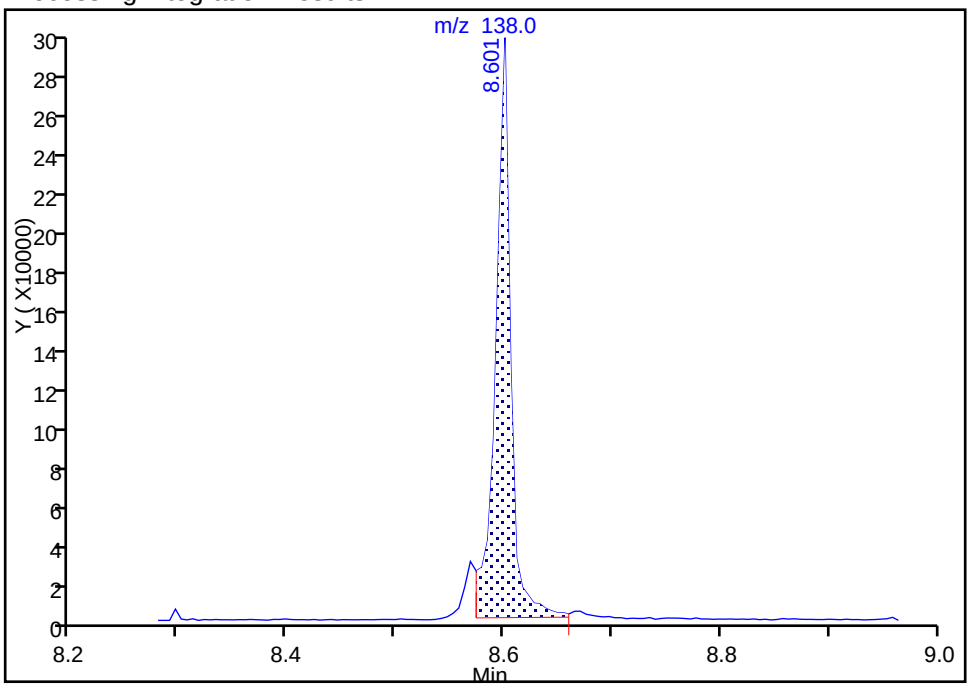
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0188.D
Injection Date: 28-Aug-2017 17:01:30 Instrument ID: HP5973W
Lims ID: LCS 480-374019/2-A
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

125 4-Nitroaniline, CAS: 100-01-6

Signal: 1

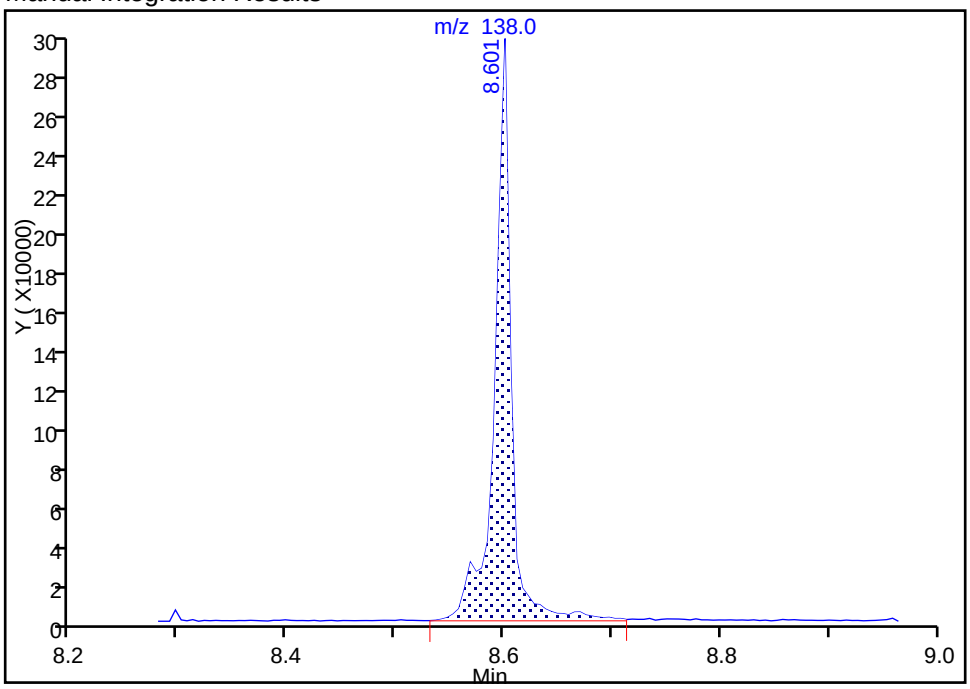
Processing Integration Results

RT: 8.60
Area: 282756
Amount: 5.974815
Amount Units: ng/uL



Manual Integration Results

RT: 8.60
Area: 315080
Amount: 6.645509
Amount Units: ng/uL



Reviewer: quirkp, 29-Aug-2017 15:19:09
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

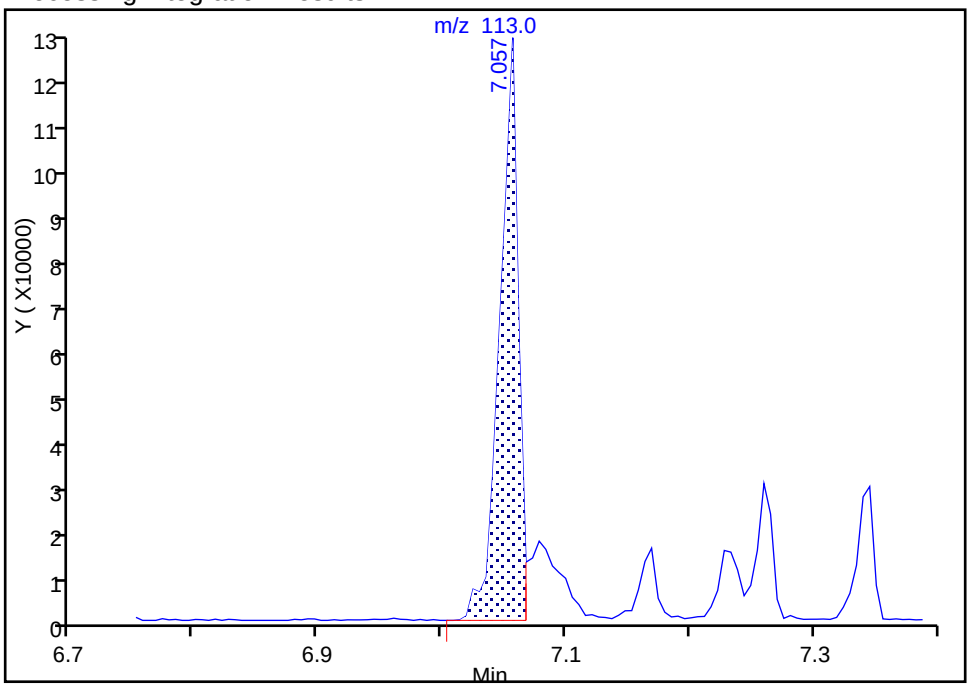
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0188.D
Injection Date: 28-Aug-2017 17:01:30 Instrument ID: HP5973W
Lims ID: LCS 480-374019/2-A
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

84 Caprolactam, CAS: 105-60-2

Signal: 1

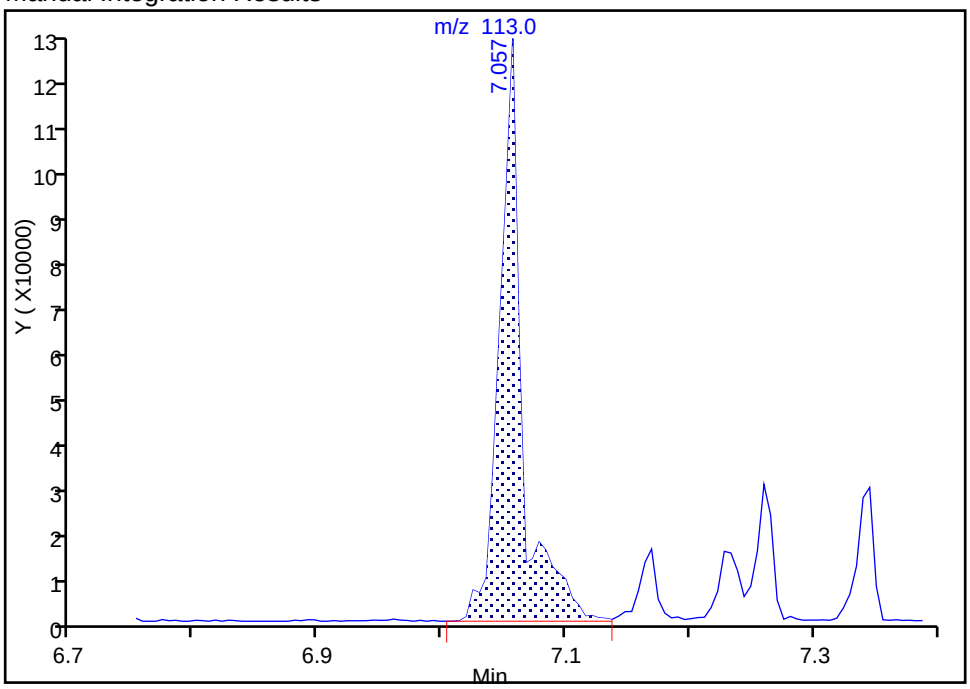
Processing Integration Results

RT: 7.06
Area: 128773
Amount: 4.632253
Amount Units: ng/uL



Manual Integration Results

RT: 7.06
Area: 156823
Amount: 5.591601
Amount Units: ng/uL



Reviewer: quirkp, 29-Aug-2017 15:18:43
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

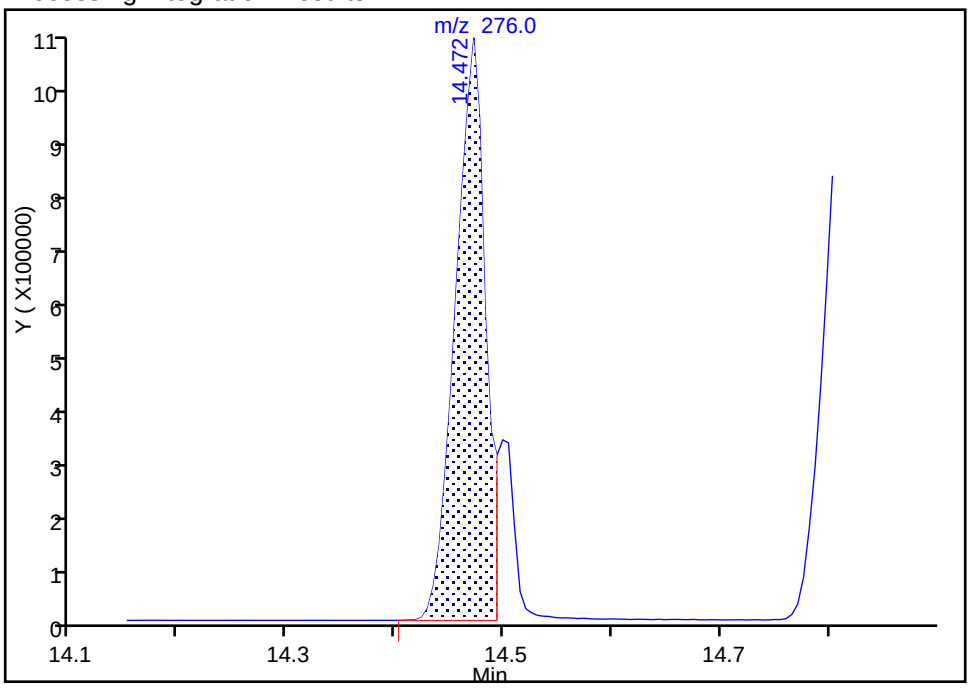
Data File: \\ChromNA\Buffalo\ChromData\HP5973W\20170828-65199.b\W0188.D
Injection Date: 28-Aug-2017 17:01:30 Instrument ID: HP5973W
Lims ID: LCS 480-374019/2-A
Client ID:
Operator ID: PJQ ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: W-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

193 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

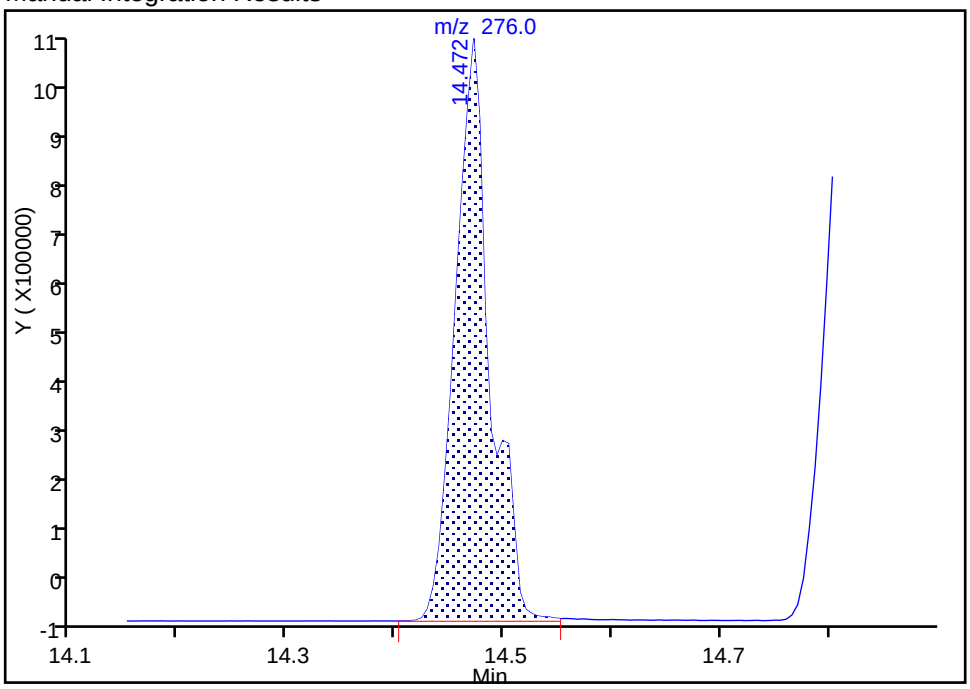
Processing Integration Results

RT: 14.47
Area: 2023347
Amount: 5.663471
Amount Units: ng/uL



Manual Integration Results

RT: 14.47
Area: 2325079
Amount: 6.498281
Amount Units: ng/uL



Reviewer: quirkp, 29-Aug-2017 15:19:29
Audit Action: Manually Integrated Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP5973W Start Date: 08/14/2017 18:45

Analysis Batch Number: 372093 End Date: 08/14/2017 23:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-372093/2		08/14/2017 18:45	1	W9932.D	RXI-5Sil MS 0.25(mm)
IC 480-372093/3		08/14/2017 19:16	1	W9933.D	RXI-5Sil MS 0.25(mm)
IC 480-372093/4		08/14/2017 19:45	1	W9934.D	RXI-5Sil MS 0.25(mm)
IC 480-372093/5		08/14/2017 20:14	1	W9935.D	RXI-5Sil MS 0.25(mm)
IC 480-372093/6		08/14/2017 20:43	1	W9936.D	RXI-5Sil MS 0.25(mm)
ICIS 480-372093/7		08/14/2017 21:13	1	W9937.D	RXI-5Sil MS 0.25(mm)
IC 480-372093/8		08/14/2017 21:41	1	W9938.D	RXI-5Sil MS 0.25(mm)
IC 480-372093/9		08/14/2017 22:10	1	W9939.D	RXI-5Sil MS 0.25(mm)
IC 480-372093/10		08/14/2017 22:39	1	W9940.D	RXI-5Sil MS 0.25(mm)
ICV 480-372093/11		08/14/2017 23:07	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP5973W Start Date: 08/28/2017 15:07

Analysis Batch Number: 374280 End Date: 08/29/2017 03:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-374280/2		08/28/2017 15:07	1	W0184.D	RXI-5Sil MS 0.25(mm)
CCVIS 480-374280/3		08/28/2017 15:35	1	W0185.D	RXI-5Sil MS 0.25(mm)
MB 480-374019/1-A		08/28/2017 16:32	1	W0187.D	RXI-5Sil MS 0.25(mm)
LCS 480-374019/2-A		08/28/2017 17:01	1	W0188.D	RXI-5Sil MS 0.25(mm)
480-123215-1		08/28/2017 17:30	1	W0189.D	RXI-5Sil MS 0.25(mm)
480-123215-2		08/28/2017 17:59	1	W0190.D	RXI-5Sil MS 0.25(mm)
480-123215-3		08/28/2017 18:28	1	W0191.D	RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 18:57	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 19:26	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 19:54	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 20:23	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 20:51	10		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 21:20	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 21:48	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 22:17	50		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 22:46	25		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 23:15	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/28/2017 23:44	20		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/29/2017 00:13	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/29/2017 00:42	5		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/29/2017 01:10	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/29/2017 01:39	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/29/2017 02:07	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/29/2017 02:35	1		RXI-5Sil MS 0.25(mm)
ZZZZZ		08/29/2017 03:04	1		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 374019 Batch Start Date: 08/25/17 14:21 Batch Analyst: Palermo, Stephan M

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	O_8270LL LCS 00067
MB 480-374019/1		3510C, 8270D		7 SU	250 mL	1 mL	<2 SU	>11 SU	
LCS 480-374019/2		3510C, 8270D		7 SU	250 mL	1 mL	<2 SU	>11 SU	1 mL
480-123215-C-1	NS-LDP-001-GW	3510C, 8270D	T	7 SU	250 mL	1 mL	<2 SU	>11 SU	
480-123215-B-2	NS-LDP-002-GW	3510C, 8270D	T	7 SU	250 mL	1 mL	<2 SU	>11 SU	
480-123215-D-3	NS-LDP-003-GW	3510C, 8270D	T	7 SU	250 mL	1 mL	<2 SU	>11 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_8270LLsurr 00054					
MB 480-374019/1		3510C, 8270D		1 mL					
LCS 480-374019/2		3510C, 8270D		1 mL					
480-123215-C-1	NS-LDP-001-GW	3510C, 8270D	T	1 mL					
480-123215-B-2	NS-LDP-002-GW	3510C, 8270D	T	1 mL					
480-123215-D-3	NS-LDP-003-GW	3510C, 8270D	T	1 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 374019 Batch Start Date: 08/25/17 14:21 Batch Analyst: Palermo, Stephan M

Batch Method: 3510C Batch End Date:

Batch Notes	
Acid used for pH adjustment	1:1 Sulfuric
Acid Used for pH Adjustment ID	4177084
Base used for pH adjustment	NaOH
Base Used to Adjust pH ID	4171621
Analyst ID - Concentration	SP
Final Concentrator Volume	1 mL
Glass Wool ID	244155999
Na2SO4 ID	4166197
pH Paper ID	HC554612
Prep Solvent ID	4203384
Prep Solvent Name	MeCl2
Prep Solvent Volume Used	120 mL
Person's name who did the prep	SP
Analyst ID - Reagent Drop Witness	SP
Analyst ID - Spike Analyst	SP
Analyst ID - Spike Witness Analyst	SP
Sufficient volume for MS/MSD?	Yes
Vial ID	1700911151

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8081B

Organochlorine Pesticides (GC) by Method 8081B

FORM II
PESTICIDES SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1	#	TCX2	#	DCBP1	#	DCBP2	#
NS-LDP-001-GW	480-123215-1	137	X	82		40		29	
NS-LDP-002-GW	480-123215-2	0	X	0	X	62		45	
NS-LDP-003-GW	480-123215-3	185	X	98		61		31	
	MB 480-373892/1-A	102		85		58		63	
	LCS 480-373892/2-A	92		74		52		45	
	LCSD 480-373892/3-A	96		72		47		37	

	QC LIMITS
TCX = Tetrachloro-m-xylene	44-120
DCBP = DCB Decachlorobiphenyl	20-120

Column to be used to flag recovery values

FORM II 8081B

FORM III
PESTICIDES LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 5_17227.D

Lab ID: LCS 480-373892/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4,4'-DDD	0.400	0.402	101	64-129	
4,4'-DDE	0.400	0.327	82	50-120	
4,4'-DDT	0.400	0.376	94	59-120	
Aldrin	0.400	0.271	68	40-125	
alpha-BHC	0.400	0.295	74	52-125	
alpha-Chlordane	0.400	0.332	83	52-120	
beta-BHC	0.400	0.374	93	51-120	
delta-BHC	0.400	0.382	96	51-120	
Dieldrin	0.400	0.403	101	66-128	
Endosulfan I	0.400	0.400	100	57-120	
Endosulfan II	0.400	0.402	100	66-131	
Endosulfan sulfate	0.400	0.422	105	66-136	
Endrin	0.400	0.414	103	65-135	
Endrin aldehyde	0.400	0.304	76	61-134	
Endrin ketone	0.400	0.403	101	71-133	
gamma-BHC (Lindane)	0.400	0.343	86	56-120	
gamma-Chlordane	0.400	0.349	87	54-120	
Heptachlor	0.400	0.351	88	58-120	
Heptachlor epoxide	0.400	0.385	96	65-125	
Methoxychlor	0.400	0.391	98	50-150	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III
PESTICIDES LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 5_17228.D

Lab ID: LCSD 480-373892/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4,4'-DDD	0.400	0.408	102	1	23	64-129	
4,4'-DDE	0.400	0.336	84	3	22	50-120	
4,4'-DDT	0.400	0.389	97	4	24	59-120	
Aldrin	0.400	0.280	70	3	25	40-125	
alpha-BHC	0.400	0.290	73	2	24	52-125	
alpha-Chlordane	0.400	0.347	87	4	23	52-120	
beta-BHC	0.400	0.389	97	4	24	51-120	
delta-BHC	0.400	0.400	100	5	24	51-120	
Dieldrin	0.400	0.412	103	2	24	66-128	
Endosulfan I	0.400	0.410	102	2	30	57-120	
Endosulfan II	0.400	0.413	103	3	40	66-131	
Endosulfan sulfate	0.400	0.439	110	4	24	66-136	
Endrin	0.400	0.421	105	2	24	65-135	
Endrin aldehyde	0.400	0.354	88	15	28	61-134	
Endrin ketone	0.400	0.411	103	2	26	71-133	
gamma-BHC (Lindane)	0.400	0.355	89	3	24	56-120	
gamma-Chlordane	0.400	0.360	90	3	24	54-120	
Heptachlor	0.400	0.359	90	2	25	58-120	
Heptachlor epoxide	0.400	0.396	99	3	23	65-125	
Methoxychlor	0.400	0.419	105	7	26	50-150	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM IV
PESTICIDES METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: MB 480-373892/1-A

Matrix: Water Date Extracted: 08/25/2017 07:30

Lab File ID:(1) 5_17226.D Lab File ID:(2) 5_17226.D

Date Analyzed:(1) 08/25/2017 15:22 Date Analyzed:(2) 08/25/2017 15:22

Instrument ID:(1) HP6890-5 Instrument ID:(2) HP6890-5

GC Column:(1) RTX-CLPI ID: 0.53(mm) GC Column:(2) RTX-CLPII ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-373892/2-A	08/25/2017 15:41	08/25/2017 15:41
	LCSD 480-373892/3-A	08/25/2017 16:01	08/25/2017 16:01
NS-LDP-001-GW	480-123215-1	08/25/2017 20:35	08/25/2017 20:35
NS-LDP-002-GW	480-123215-2	08/25/2017 20:54	08/25/2017 20:54
NS-LDP-003-GW	480-123215-3	08/25/2017 21:14	08/25/2017 21:14

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: STD3 480-371935/6 Date Analyzed: 08/14/2017 08:14

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm)

Lab File ID (Standard): 5_17091.D Heated Purge: (Y/N) N

Calibration ID: 31133

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		60010752	2.12				
UPPER LIMIT		120021504	2.62				
LOWER LIMIT		30005376	1.62				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-374025/5 CCVIS		62761035	2.13				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: STD3 480-371935/6 Date Analyzed: 08/14/2017 08:14

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm)

Lab File ID (Standard): 5_17091.D Heated Purge: (Y/N) N

Calibration ID: 31134

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		24043778	2.34				
UPPER LIMIT		48087556	2.84				
LOWER LIMIT		12021889	1.84				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-374025/5 CCVIS		24674496	2.34				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: CCV 480-374025/5 Date Analyzed: 08/25/2017 14:03

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm)

Lab File ID (Standard): 5_17222.D Heated Purge: (Y/N) N

Calibration ID: 31133

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		62761035	2.13				
UPPER LIMIT		125522070	2.63				
LOWER LIMIT		31380518	1.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-374025/7		64512683	2.12				
MB 480-373892/1-A		56020886	2.12				
LCS 480-373892/2-A		57053967	2.12				
LCSD 480-373892/3-A		54740917	2.12				
480-123215-1	NS-LDP-001-GW	56539787	2.12				
480-123215-2	NS-LDP-002-GW	55028074	2.12				
480-123215-3	NS-LDP-003-GW	53641009	2.12				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM VIII
PESTICIDES INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: CCV 480-374025/5 Date Analyzed: 08/25/2017 14:03

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm)

Lab File ID (Standard): 5_17222.D Heated Purge: (Y/N) N

Calibration ID: 31134

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		24674496	2.34				
UPPER LIMIT		49348992	2.84				
LOWER LIMIT		12337248	1.84				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-374025/7		25407721	2.34				
MB 480-373892/1-A		21801879	2.34				
LCS 480-373892/2-A		22112072	2.34				
LCSD 480-373892/3-A		21186064	2.34				
480-123215-1	NS-LDP-001-GW	22774490	2.34				
480-123215-2	NS-LDP-002-GW	22140618	2.34				
480-123215-3	NS-LDP-003-GW	21806030	2.34				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8081B

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-001-GW Lab Sample ID: 480-123215-1

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 08/25/2017 20:35 Date Analyzed (2): 08/25/2017 20:35

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		3.11	3.09	3.12	0.054		120.9
	2		3.64	3.64	3.67	0.013		
Aldrin	1		4.08	4.07	4.10	0.019		28.9
	2		4.86	4.83	4.86	0.025		
4,4'-DDD	1		5.63	5.62	5.65	0.042		43.8
	2		6.59	6.57	6.60	0.027		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-002-GW Lab Sample ID: 480-123215-2

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 08/25/2017 20:54 Date Analyzed (2): 08/25/2017 20:54

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
gamma-BHC (Lindane)	1		3.37	3.35	3.38	0.072		34.3
	2		4.00	4.00	4.03	0.10		
Aldrin	1		4.08	4.07	4.10	0.073		18.1
	2		4.86	4.83	4.86	0.061		
4,4'-DDT	1		5.91	5.91	5.94	0.086		4.1
	2		6.92	6.90	6.93	0.090		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-003-GW Lab Sample ID: 480-123215-3

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 08/25/2017 21:14 Date Analyzed (2): 08/25/2017 21:14

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aldrin	1		4.07	4.07	4.10	0.021		15.7
	2		4.86	4.83	4.86	0.018		
Endosulfan I	1		5.09	5.07	5.10	0.029		82.7
	2		5.88	5.87	5.90	0.012		
4,4'-DDD	1		5.63	5.62	5.65	0.044		33.7
	2		6.59	6.57	6.60	0.031		
4,4'-DDT	1		5.91	5.91	5.94	0.043		27.6
	2		6.92	6.90	6.93	0.032		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-373892/1-A

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 08/25/2017 15:22 Date Analyzed (2): 08/25/2017 15:22

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		3.10	3.09	3.12	0.0116		7.1
	2		3.64	3.64	3.67	0.0108		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-373892/2-A

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 08/25/2017 15:41 Date Analyzed (2): 08/25/2017 15:41

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		3.10	3.09	3.12	0.295		11.5
	2		3.65	3.64	3.67	0.331		
gamma-BHC (Lindane)	1		3.36	3.35	3.38	0.343		9.1
	2		4.01	4.00	4.03	0.376		
beta-BHC	1		3.43	3.42	3.45	0.374		4.1
	2		4.08	4.07	4.10	0.359		
delta-BHC	1		3.59	3.58	3.61	0.382		3.9
	2		4.40	4.39	4.42	0.368		
Heptachlor	1		3.79	3.78	3.81	0.351		1.8
	2		4.49	4.48	4.51	0.344		
Aldrin	1		4.08	4.07	4.10	0.271		0.0
	2		4.84	4.83	4.86	0.271		
Heptachlor epoxide	1		4.67	4.67	4.70	0.385		6.6
	2		5.45	5.44	5.47	0.411		
gamma-Chlordane	1		4.80	4.79	4.82	0.349		7.9
	2		5.66	5.64	5.67	0.378		
alpha-Chlordane	1		4.94	4.93	4.96	0.332		14.3
	2		5.81	5.80	5.83	0.384		
4,4'-DDE	1		5.02	5.01	5.04	0.327		14.0
	2		5.97	5.96	5.99	0.376		
Endosulfan I	1		5.07	5.07	5.10	0.400		1.6
	2		5.88	5.87	5.90	0.407		
Dieldrin	1		5.32	5.31	5.34	0.403		2.0
	2		6.17	6.16	6.19	0.411		
Endrin	1		5.56	5.55	5.58	0.414		2.2
	2		6.49	6.48	6.51	0.405		
4,4'-DDD	1		5.63	5.62	5.65	0.402		5.5
	2		6.58	6.57	6.60	0.425		
Endosulfan II	1		5.78	5.78	5.81	0.402		2.4
	2		6.71	6.70	6.73	0.412		
4,4'-DDT	1		5.92	5.91	5.94	0.376		3.3
	2		6.91	6.90	6.93	0.388		
Endrin aldehyde	1		6.21	6.21	6.24	0.304		29.0
	2		7.06	7.05	7.08	0.407		
Methoxychlor	1		6.43	6.42	6.45	0.391		10.9
	2		7.60	7.59	7.62	0.436		
Endosulfan sulfate	1		6.66	6.65	6.68	0.422		0.2
	2		7.34	7.33	7.36	0.423		
Endrin ketone	1		6.94	6.94	6.97	0.403		3.7
	2		7.90	7.89	7.92	0.418		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 480-373892/3-A

Instrument ID (1): HP6890-5 Instrument ID (2): HP6890-5

Date Analyzed (1): 08/25/2017 16:01 Date Analyzed (2): 08/25/2017 16:01

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		3.10	3.09	3.12	0.290		14.5
	2		3.65	3.64	3.67	0.335		
gamma-BHC (Lindane)	1		3.36	3.35	3.38	0.355		8.9
	2		4.01	4.00	4.03	0.388		
beta-BHC	1		3.43	3.42	3.45	0.389		3.3
	2		4.08	4.07	4.10	0.377		
delta-BHC	1		3.59	3.58	3.61	0.400		5.5
	2		4.40	4.39	4.42	0.379		
Heptachlor	1		3.79	3.78	3.81	0.359		2.4
	2		4.49	4.48	4.51	0.351		
Aldrin	1		4.08	4.07	4.10	0.280		0.8
	2		4.84	4.83	4.86	0.278		
Heptachlor epoxide	1		4.68	4.67	4.70	0.396		7.0
	2		5.45	5.44	5.47	0.425		
gamma-Chlordane	1		4.80	4.79	4.82	0.360		8.4
	2		5.66	5.64	5.67	0.391		
alpha-Chlordane	1		4.94	4.93	4.96	0.347		13.3
	2		5.81	5.80	5.83	0.396		
4,4'-DDE	1		5.02	5.01	5.04	0.336		15.3
	2		5.97	5.96	5.99	0.392		
Endosulfan I	1		5.08	5.07	5.10	0.410		2.6
	2		5.88	5.87	5.90	0.421		
Dieldrin	1		5.32	5.31	5.34	0.412		3.5
	2		6.17	6.16	6.19	0.427		
Endrin	1		5.56	5.55	5.58	0.421		0.7
	2		6.49	6.48	6.51	0.418		
4,4'-DDD	1		5.63	5.62	5.65	0.408		7.1
	2		6.58	6.57	6.60	0.438		
Endosulfan II	1		5.79	5.78	5.81	0.413		3.6
	2		6.71	6.70	6.73	0.428		
4,4'-DDT	1		5.92	5.91	5.94	0.389		2.3
	2		6.91	6.90	6.93	0.398		
Endrin aldehyde	1		6.22	6.21	6.24	0.354		18.6
	2		7.06	7.05	7.08	0.426		
Methoxychlor	1		6.43	6.42	6.45	0.419		5.5
	2		7.60	7.59	7.62	0.442		
Endosulfan sulfate	1		6.66	6.65	6.68	0.439		1.7
	2		7.34	7.33	7.36	0.432		
Endrin ketone	1		6.95	6.94	6.97	0.411		4.4
	2		7.90	7.89	7.92	0.430		

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-001-GW | Lab Sample ID: 480-123215-1

Matrix: Water | Lab File ID: 5_17242.D

Analysis Method: 8081B | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 245(mL) | Date Analyzed: 08/25/2017 20:35

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.042	J	0.051	0.0094
72-55-9	4,4'-DDE	ND		0.051	0.012
50-29-3	4,4'-DDT	ND		0.051	0.011
309-00-2	Aldrin	0.019	J	0.051	0.0083
319-84-6	alpha-BHC	0.054	B	0.051	0.0079
5103-71-9	alpha-Chlordane	ND		0.051	0.015
319-85-7	beta-BHC	ND		0.051	0.025
319-86-8	delta-BHC	ND		0.051	0.010
60-57-1	Dieldrin	ND		0.051	0.010
959-98-8	Endosulfan I	ND		0.051	0.011
33213-65-9	Endosulfan II	ND		0.051	0.012
1031-07-8	Endosulfan sulfate	ND		0.051	0.016
72-20-8	Endrin	ND		0.051	0.014
7421-93-4	Endrin aldehyde	ND		0.051	0.017
53494-70-5	Endrin ketone	ND		0.051	0.012
58-89-9	gamma-BHC (Lindane)	ND		0.051	0.0082
5103-74-2	gamma-Chlordane	ND		0.051	0.011
76-44-8	Heptachlor	ND		0.051	0.0087
1024-57-3	Heptachlor epoxide	ND		0.051	0.0076
72-43-5	Methoxychlor	ND		0.051	0.014
8001-35-2	Toxaphene	ND		0.51	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	40		20-120
877-09-8	Tetrachloro-m-xylene	137	X	44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D
Lims ID: 480-123215-D-1-A
Client ID: NS-LDP-001-GW
Sample Type: Client
Inject. Date: 25-Aug-2017 20:35:03 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

First Level Reviewer: NearyM Date: 26-Aug-2017 09:54:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						M
1	2.123	2.127	-0.004	56539787	0.5000	M
2	2.340	2.340	0.000	22774490	0.5000	M
					RPD = 0.00	
$ 1 Tetrachloro-m-xylene						M
1	2.667	2.673	-0.006	2325508	0.0274	M
2	3.080	3.083	-0.003	792078	0.0165	M
					RPD = 49.91	
$ 2 DCB Decachlorobiphenyl						
1	7.980	7.987	-0.007	703531	0.007947	
2	9.133	9.137	-0.004	177928	0.005746	
					RPD = 32.15	
4 alpha-BHC						M
1	3.113	3.103	0.010	1215399	0.006571	M
2	3.637	3.650	-0.013	29232	0.001620	M
					RPD = 120.90	
10 Aldrin						M
1	4.077	4.083	-0.006	329115	0.002273	M
2	4.857	4.847	0.010	142127	0.003042	M
					RPD = 28.95	
13 Heptachlor epoxide						M
1	4.680	4.680	0.000	191283	0.000498	M
2	5.443	5.453	-0.010	337876	0.006608	M
					RPD = 171.96	
LOD = 0.001000						
22 4,4'-DDD						M
1	5.633	5.637	-0.004	570008	0.005121	M
2	6.590	6.583	0.007	106375	0.003281	M
					RPD = 43.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
30 Endosulfan sulfate						M
1	6.657	6.663	-0.006	138939	0.001106	M
2	7.337	7.347	-0.010	29681	0.001581	M
					RPD = 35.40	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

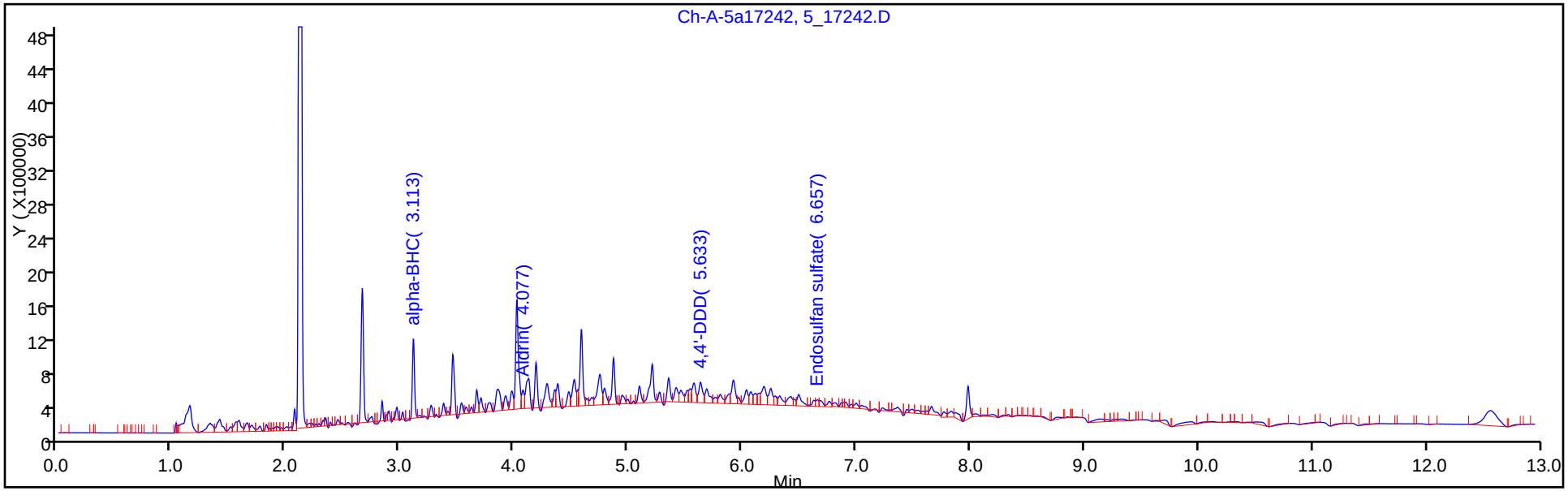
Report Date: 26-Aug-2017 10:08:48 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

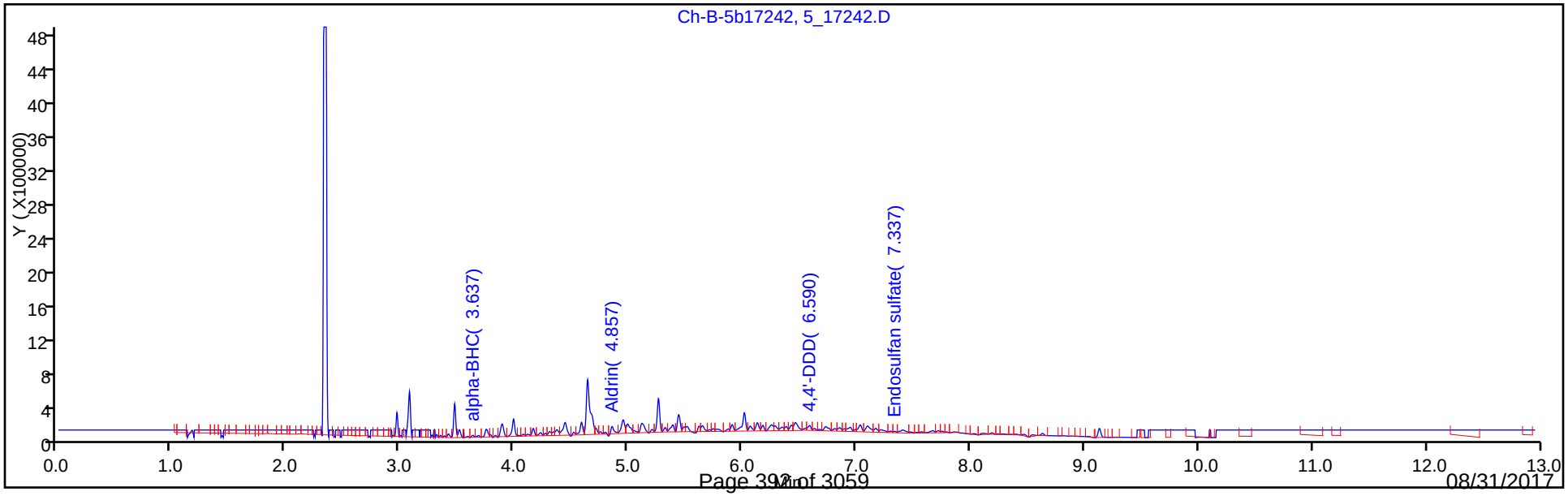
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D

Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1	Worklist Smp#:	25
Client ID:	NS-LDP-001-GW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

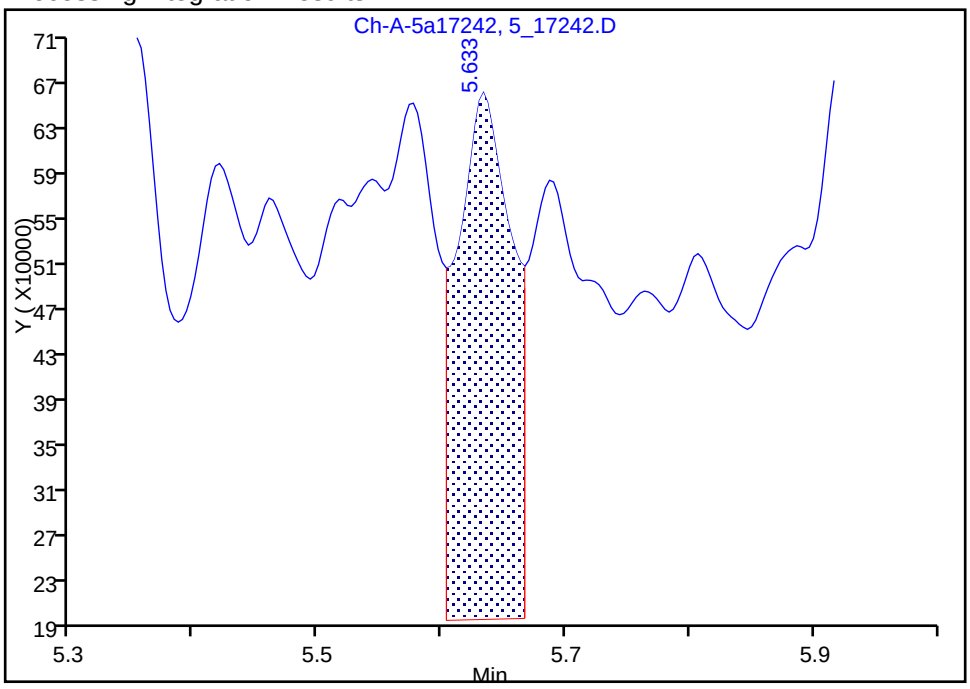
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

22 4,4'-DDD, CAS: 72-54-8

Signal: 1

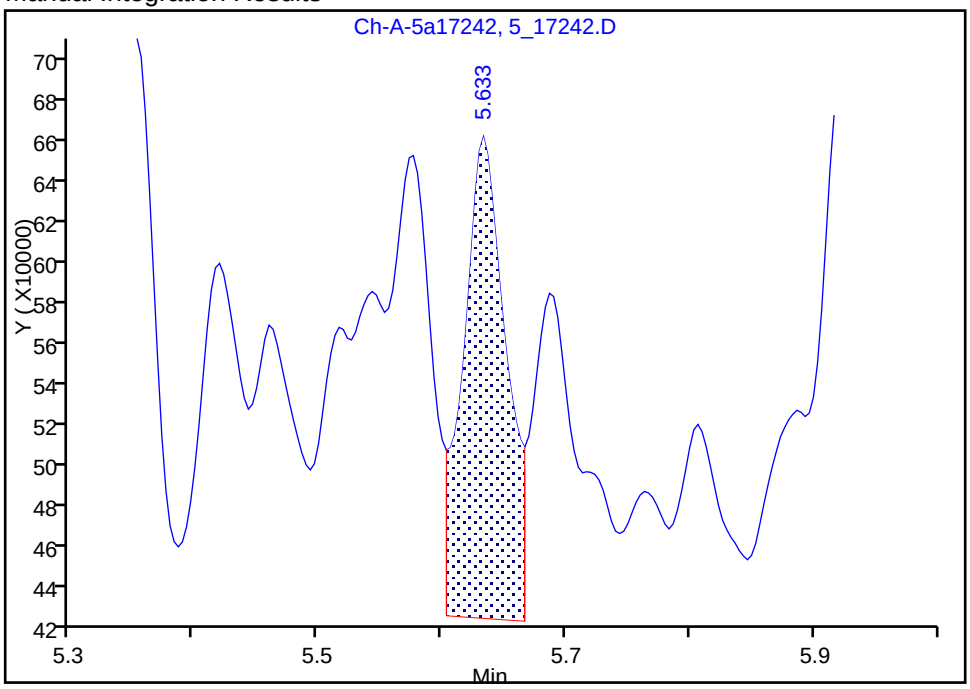
Processing Integration Results

RT: 5.63
Area: 1433929
Amount: 0.011884
Amount Units: ng/ul



Manual Integration Results

RT: 5.63
Area: 570008
Amount: 0.005121
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:19

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

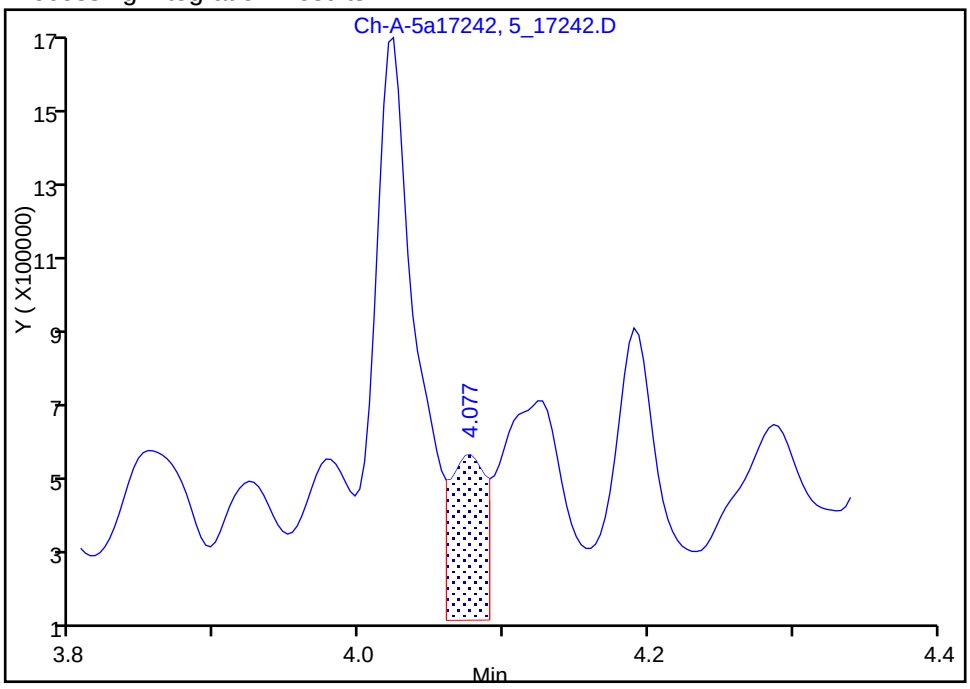
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

10 Aldrin, CAS: 309-00-2

Signal: 1

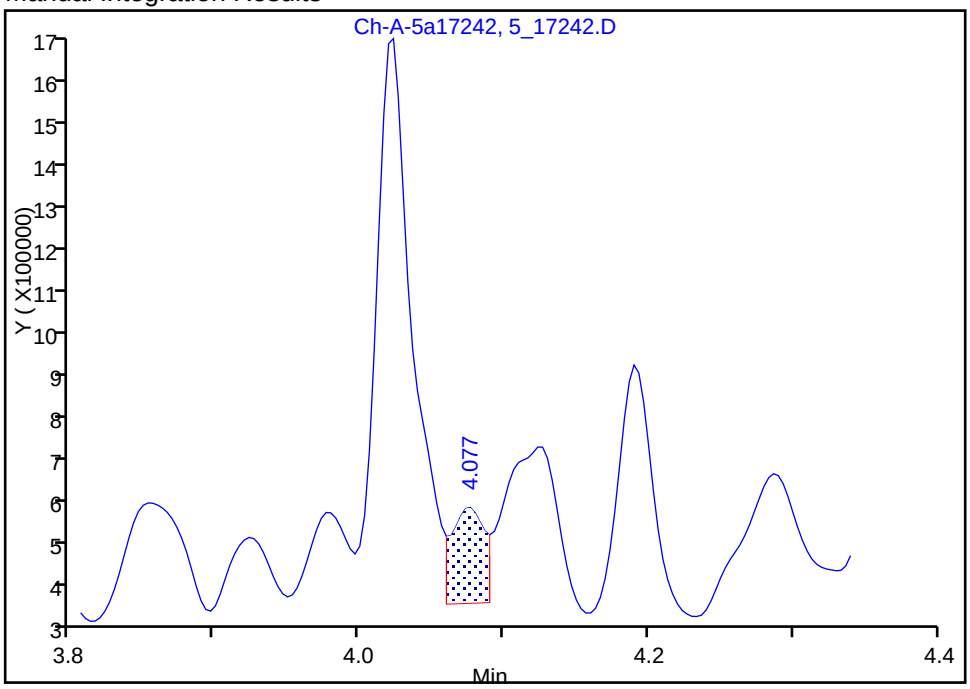
Processing Integration Results

RT: 4.08
Area: 693200
Amount: 0.004317
Amount Units: ng/ul



Manual Integration Results

RT: 4.08
Area: 329115
Amount: 0.002273
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:14
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

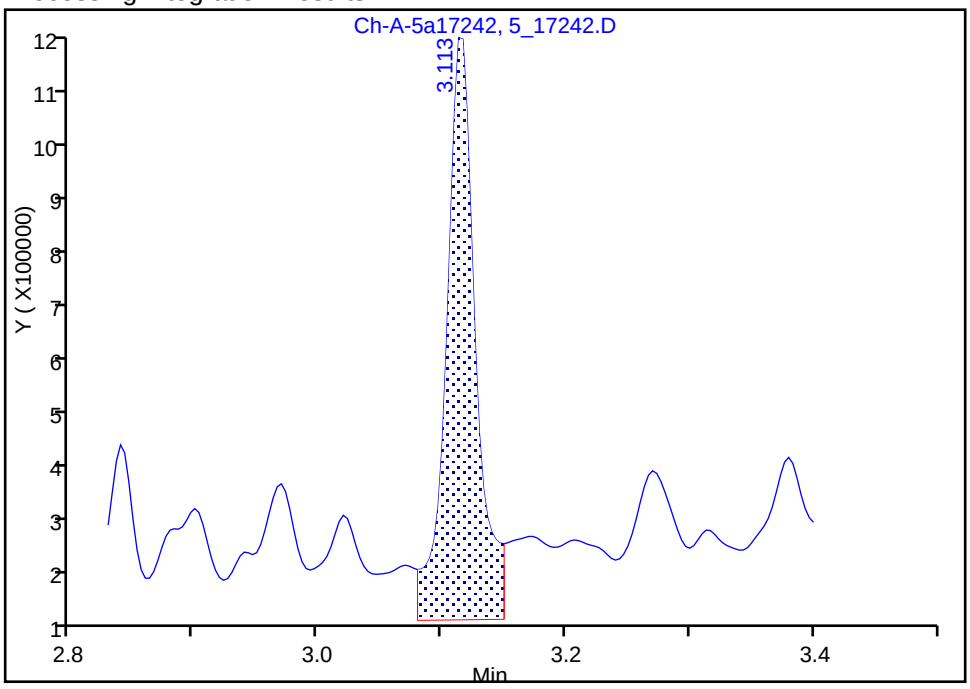
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

4 alpha-BHC, CAS: 319-84-6

Signal: 1

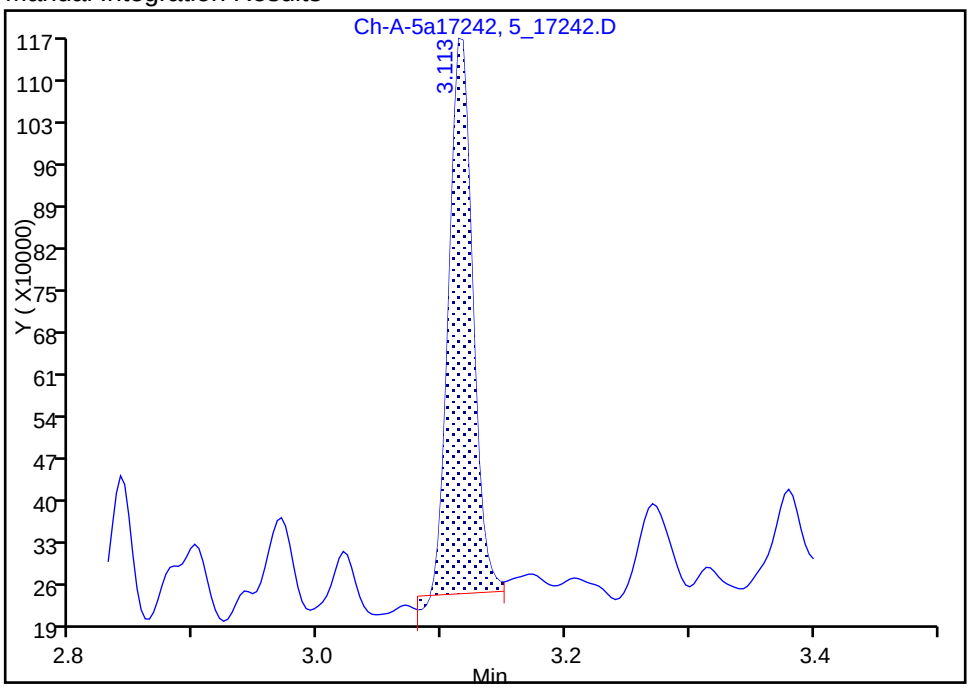
Processing Integration Results

RT: 3.11
Area: 1702650
Amount: 0.008640
Amount Units: ng/ul



Manual Integration Results

RT: 3.11
Area: 1215399
Amount: 0.006571
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

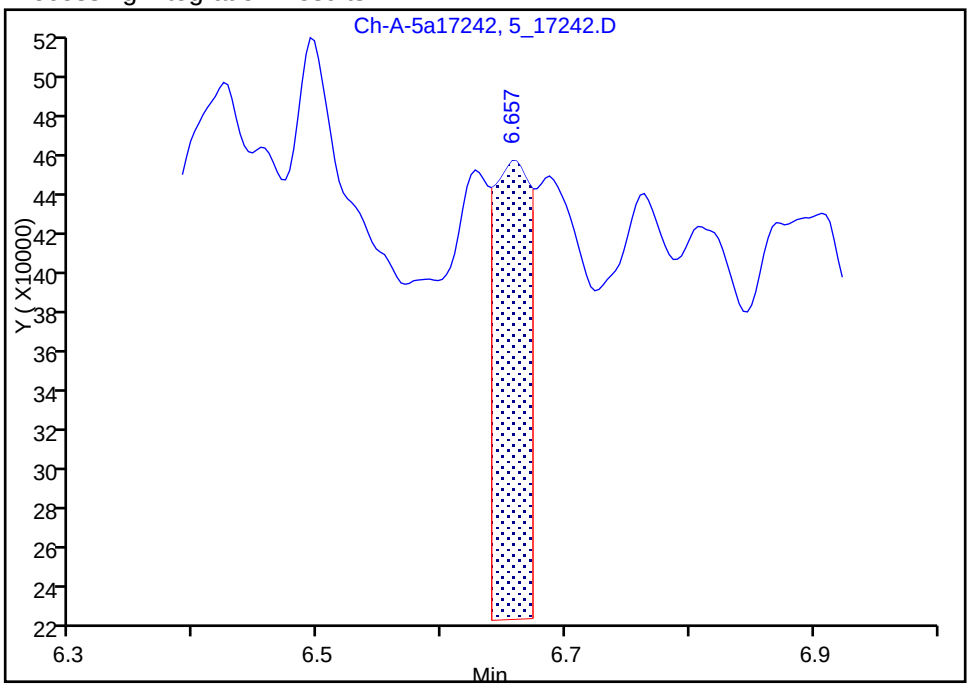
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

30 Endosulfan sulfate, CAS: 1031-07-8

Signal: 1

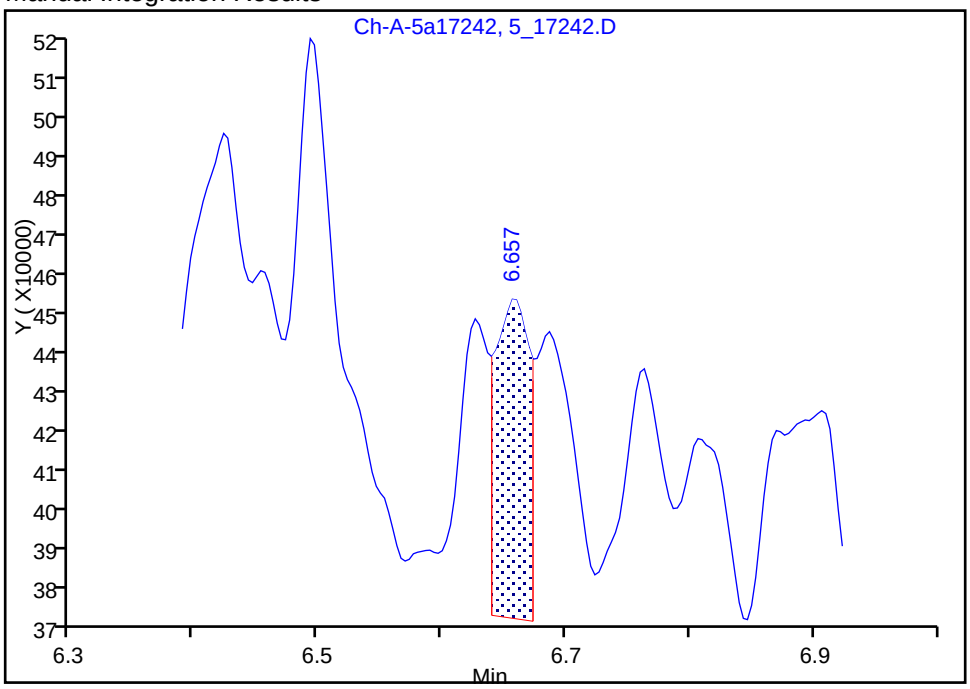
Processing Integration Results

RT: 6.66
Area: 450669
Amount: 0.003896
Amount Units: ng/ul



Manual Integration Results

RT: 6.66
Area: 138939
Amount: 0.001106
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:19

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

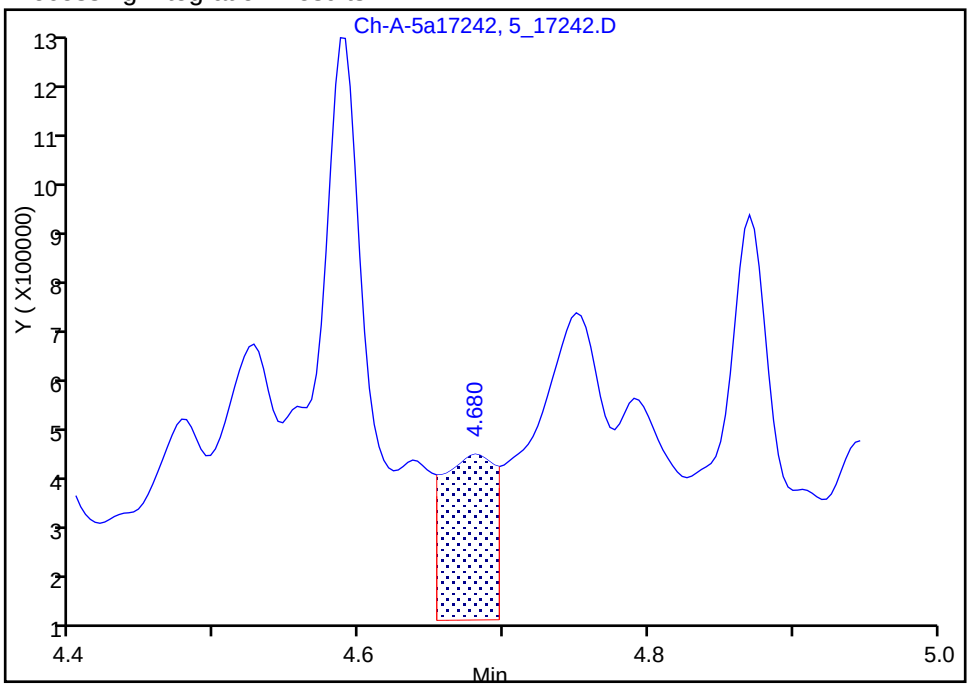
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

13 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

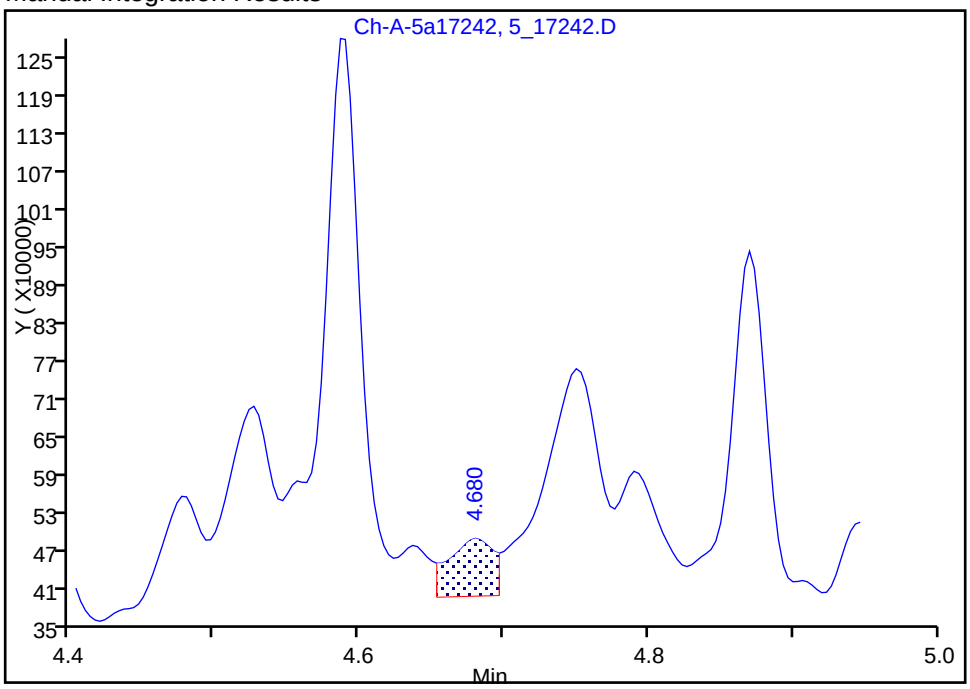
Processing Integration Results

RT: 4.68
Area: 770829
Amount: 0.004528
Amount Units: ng/ul



Manual Integration Results

RT: 4.68
Area: 191283
Amount: 0.000498
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:16
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

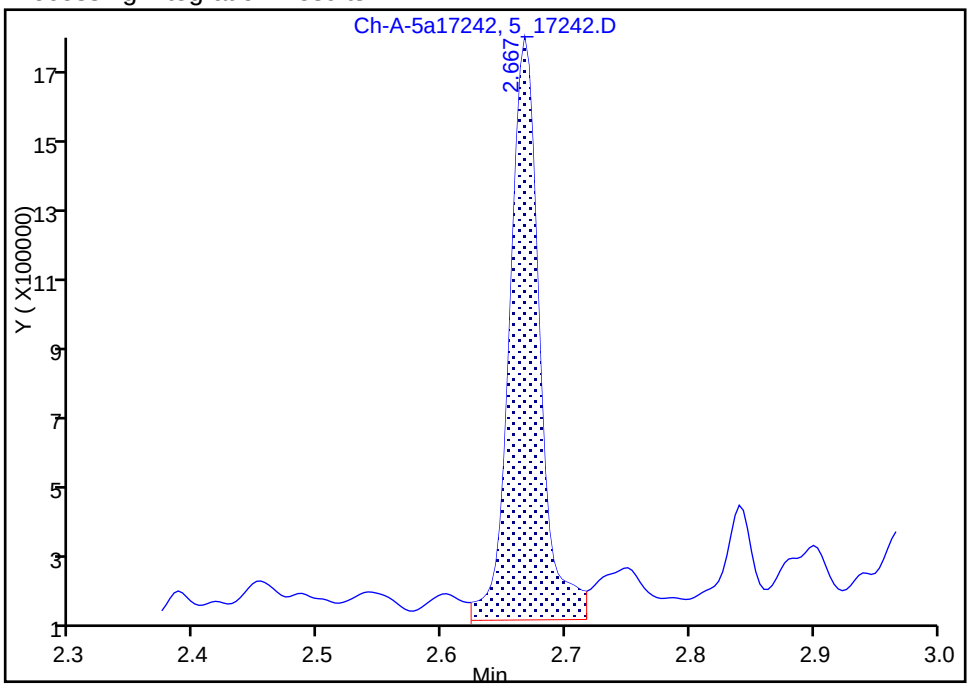
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

$ 1 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

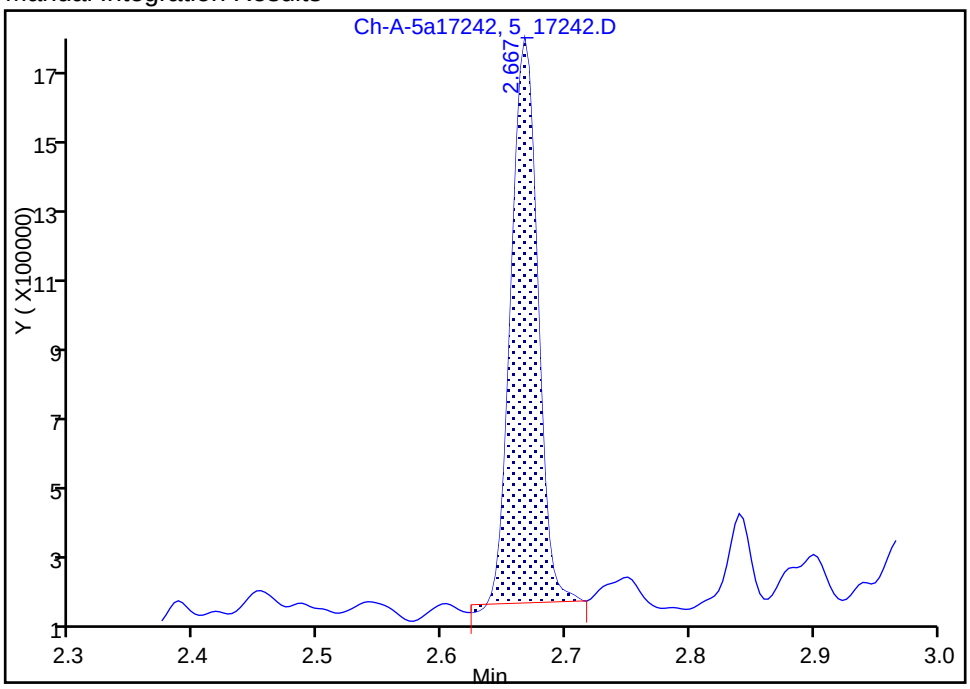
Processing Integration Results

RT: 2.67
Area: 2751262
Amount: 0.032041
Amount Units: ng/ul



Manual Integration Results

RT: 2.67
Area: 2325508
Amount: 0.027395
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

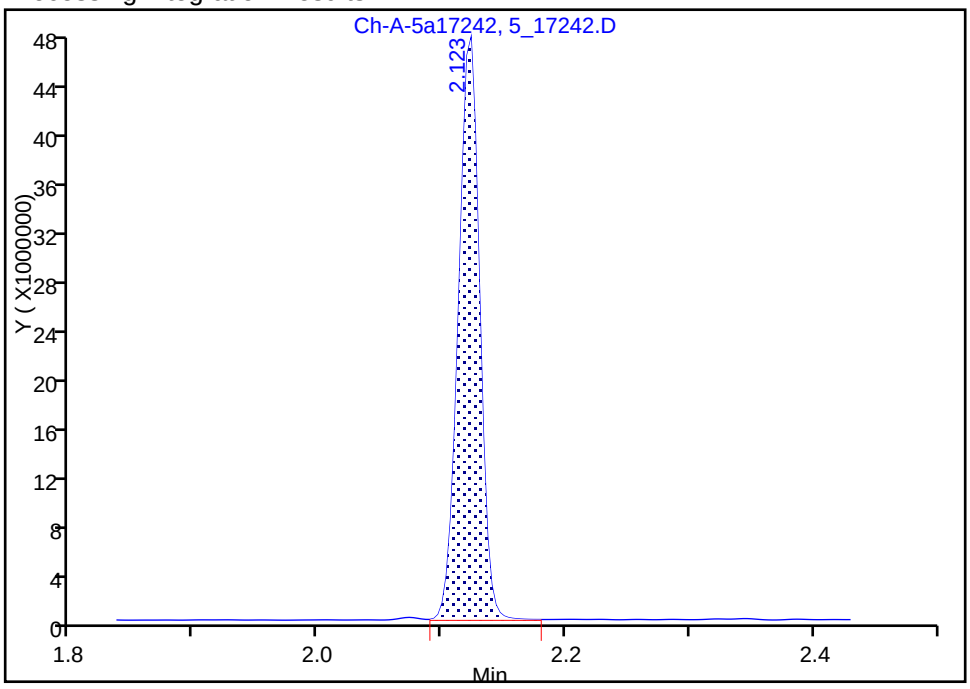
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

* 44 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

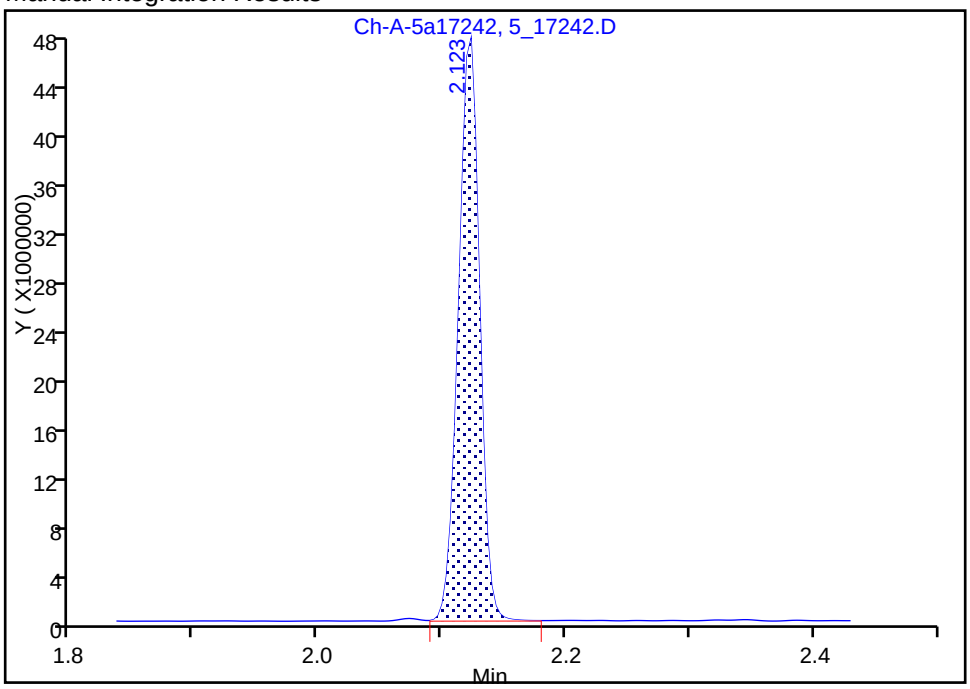
Processing Integration Results

RT: 2.12
Area: 56690752
Amount: 0.500000
Amount Units: ng/ul



Manual Integration Results

RT: 2.12
Area: 56539787
Amount: 0.500000
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-001-GW | Lab Sample ID: 480-123215-1

Matrix: Water | Lab File ID: 5_17242.D

Analysis Method: 8081B | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 245(mL) | Date Analyzed: 08/25/2017 20:35

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	29		20-120
877-09-8	Tetrachloro-m-xylene	82		44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D
Lims ID: 480-123215-D-1-A
Client ID: NS-LDP-001-GW
Sample Type: Client
Inject. Date: 25-Aug-2017 20:35:03 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

First Level Reviewer: NearyM Date: 26-Aug-2017 09:54:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						M
1	2.123	2.127	-0.004	56539787	0.5000	M
2	2.340	2.340	0.000	22774490	0.5000	M
					RPD = 0.00	
$ 1 Tetrachloro-m-xylene						M
1	2.667	2.673	-0.006	2325508	0.0274	M
2	3.080	3.083	-0.003	792078	0.0165	M
					RPD = 49.91	
$ 2 DCB Decachlorobiphenyl						
1	7.980	7.987	-0.007	703531	0.007947	
2	9.133	9.137	-0.004	177928	0.005746	
					RPD = 32.15	
4 alpha-BHC						M
1	3.113	3.103	0.010	1215399	0.006571	M
2	3.637	3.650	-0.013	29232	0.001620	M
					RPD = 120.90	
10 Aldrin						M
1	4.077	4.083	-0.006	329115	0.002273	M
2	4.857	4.847	0.010	142127	0.003042	M
					RPD = 28.95	
13 Heptachlor epoxide						M
1	4.680	4.680	0.000	191283	0.000498	M
2	5.443	5.453	-0.010	337876	0.006608	M
					RPD = 171.96	
LOD = 0.001000						
22 4,4'-DDD						M
1	5.633	5.637	-0.004	570008	0.005121	M
2	6.590	6.583	0.007	106375	0.003281	M
					RPD = 43.80	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
30 Endosulfan sulfate						M
1	6.657	6.663	-0.006	138939	0.001106	M
2	7.337	7.347	-0.010	29681	0.001581	M
					RPD = 35.40	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

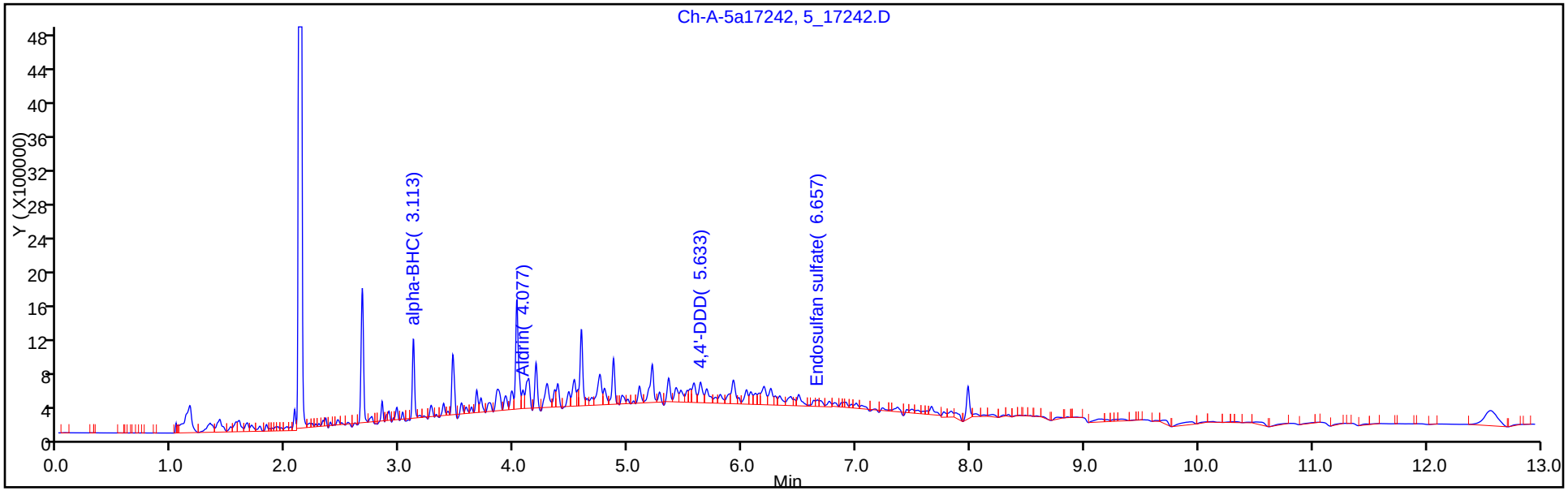
Report Date: 26-Aug-2017 10:08:48 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

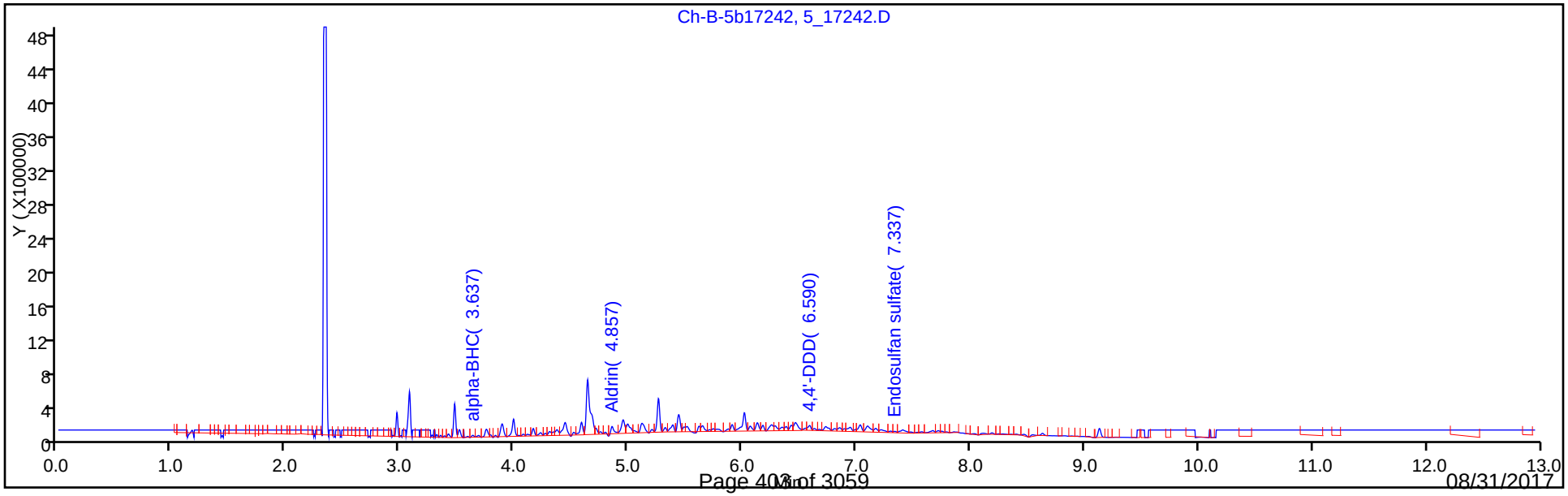
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D

Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1	Worklist Smp#:	25
Client ID:	NS-LDP-001-GW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

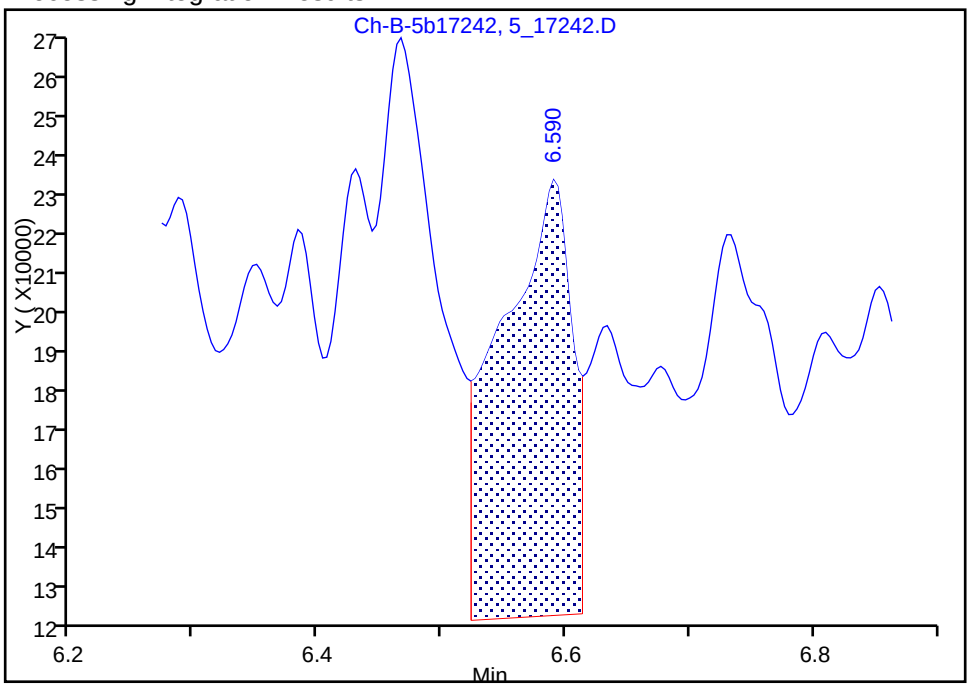
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

22 4,4'-DDD, CAS: 72-54-8

Signal: 2

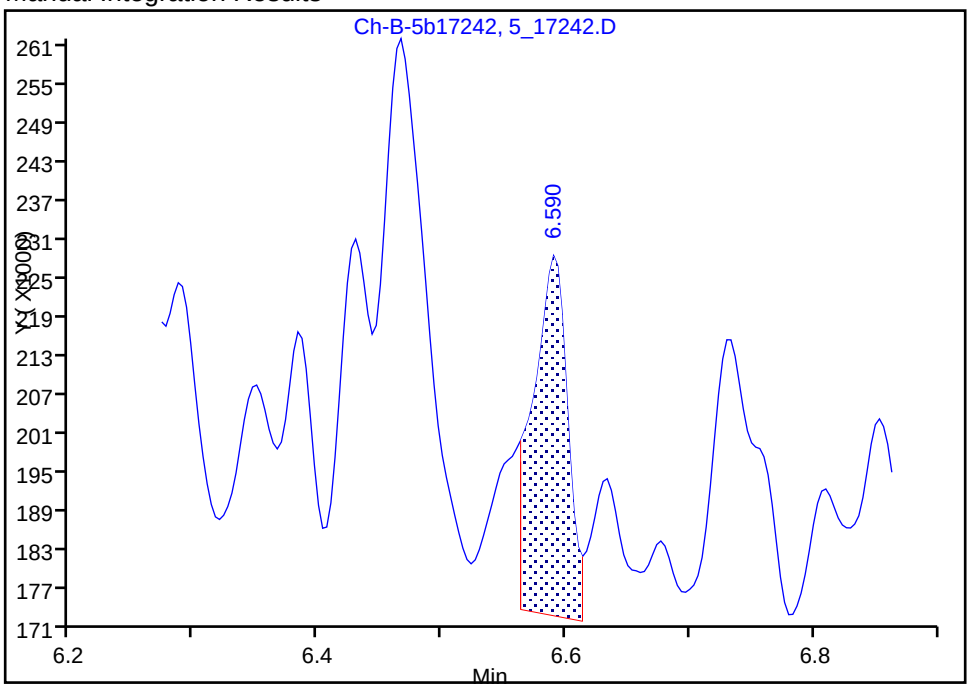
Processing Integration Results

RT: 6.59
Area: 407345
Amount: 0.009684
Amount Units: ng/ul



Manual Integration Results

RT: 6.59
Area: 106375
Amount: 0.003281
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:54:21

Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

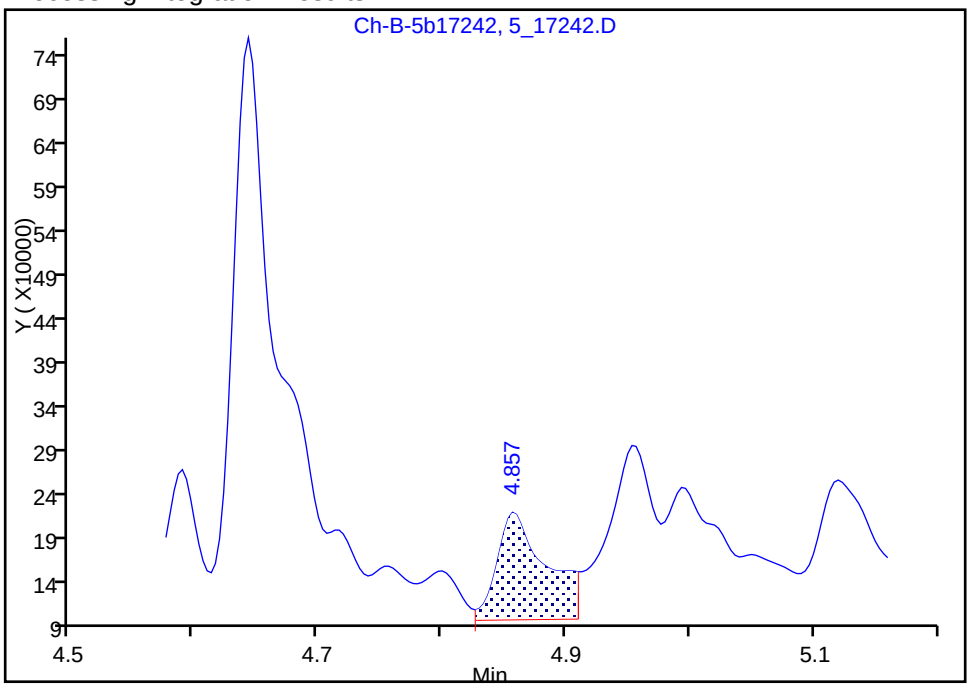
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

10 Aldrin, CAS: 309-00-2

Signal: 2

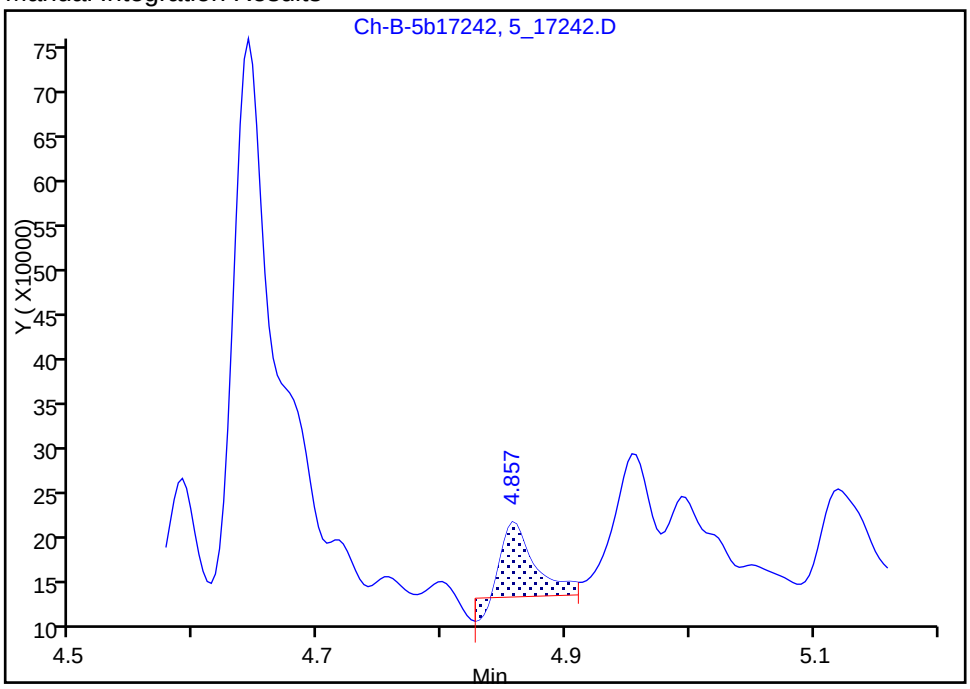
Processing Integration Results

RT: 4.86
Area: 334450
Amount: 0.005995
Amount Units: ng/ul



Manual Integration Results

RT: 4.86
Area: 142127
Amount: 0.003042
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:31

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

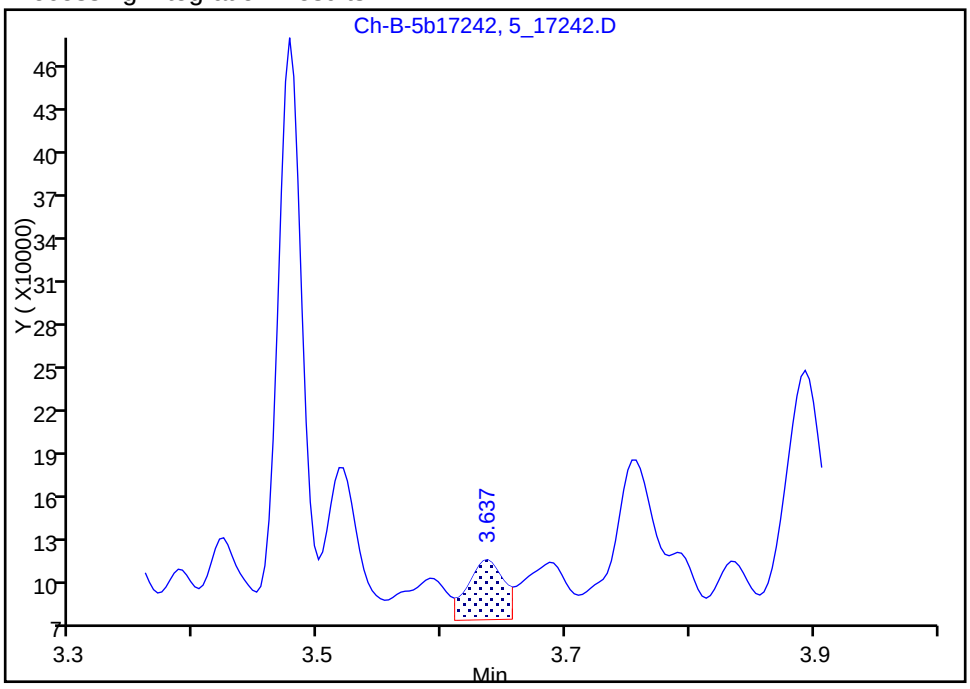
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

4 alpha-BHC, CAS: 319-84-6

Signal: 2

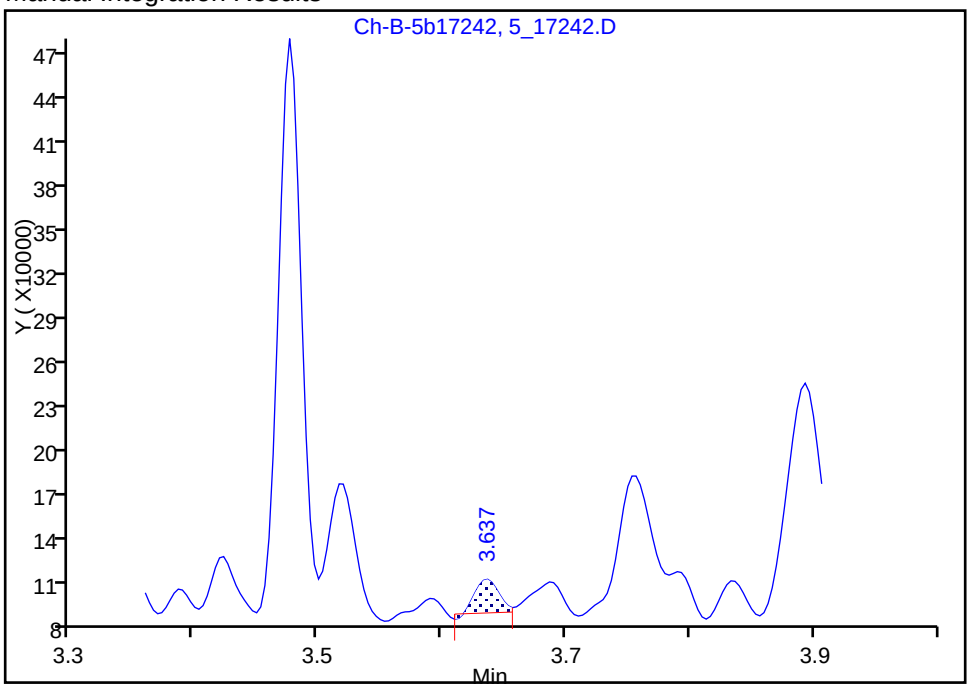
Processing Integration Results

RT: 3.64
Area: 82309
Amount: 0.002223
Amount Units: ng/ul



Manual Integration Results

RT: 3.64
Area: 29232
Amount: 0.001620
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

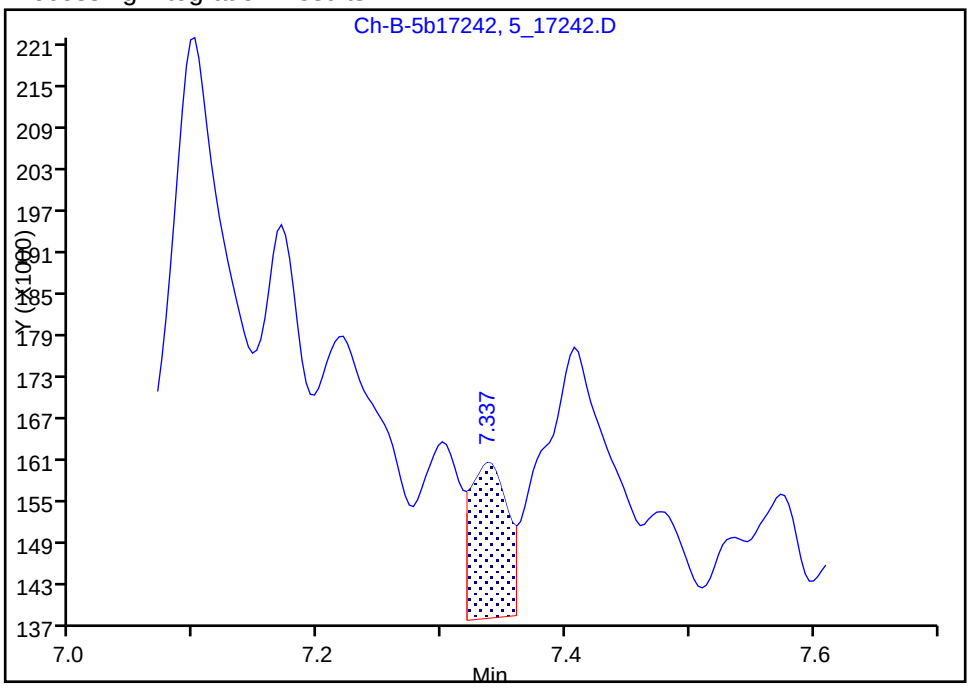
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

30 Endosulfan sulfate, CAS: 1031-07-8

Signal: 2

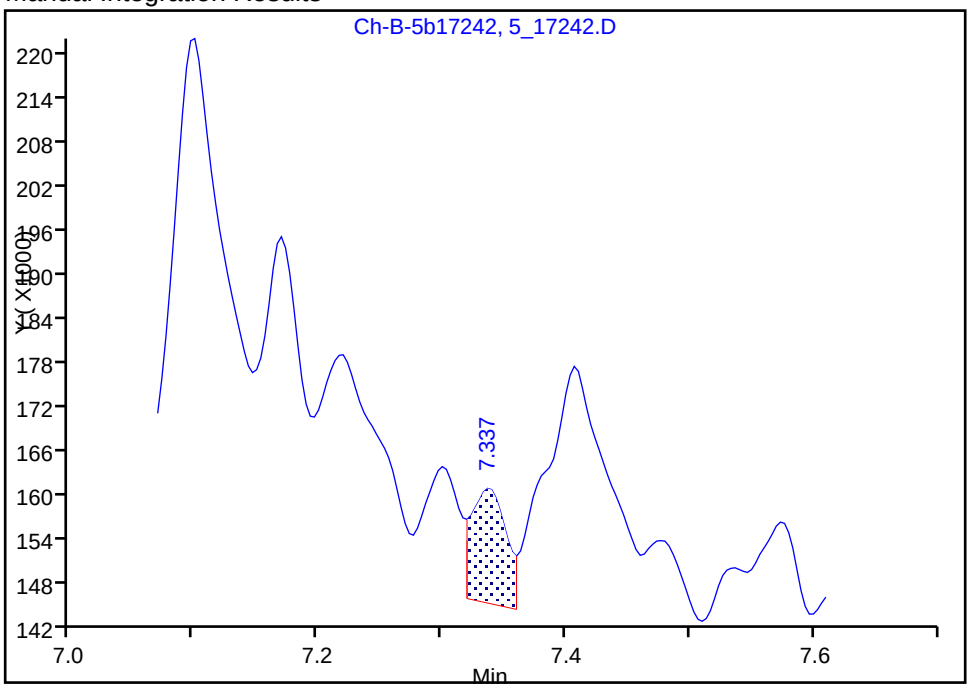
Processing Integration Results

RT: 7.34
Area: 45724
Amount: 0.001950
Amount Units: ng/ul



Manual Integration Results

RT: 7.34
Area: 29681
Amount: 0.001581
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:46
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

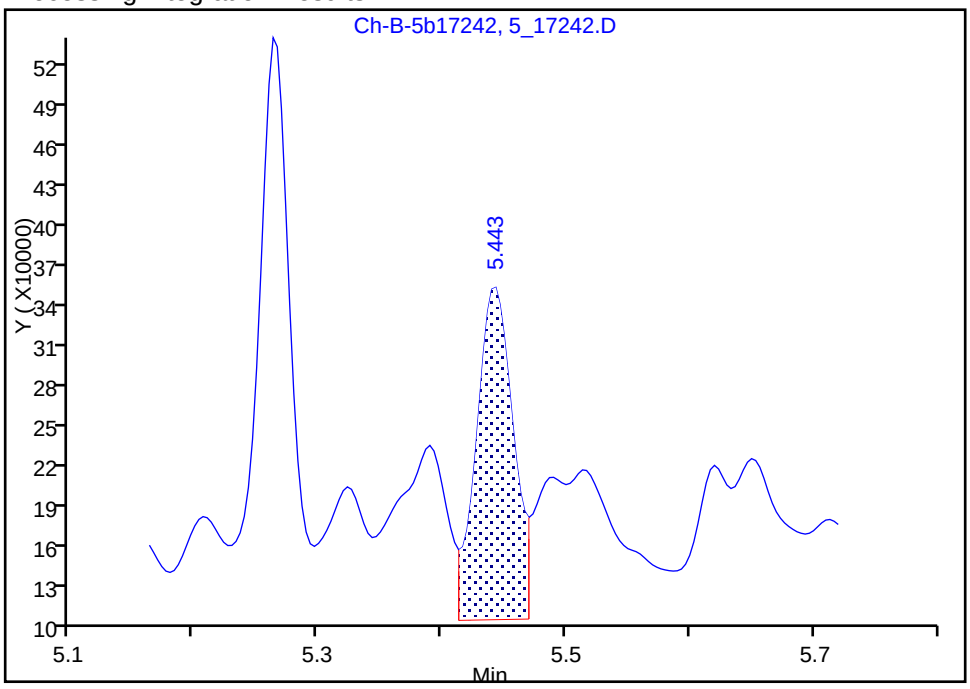
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

13 Heptachlor epoxide, CAS: 1024-57-3

Signal: 2

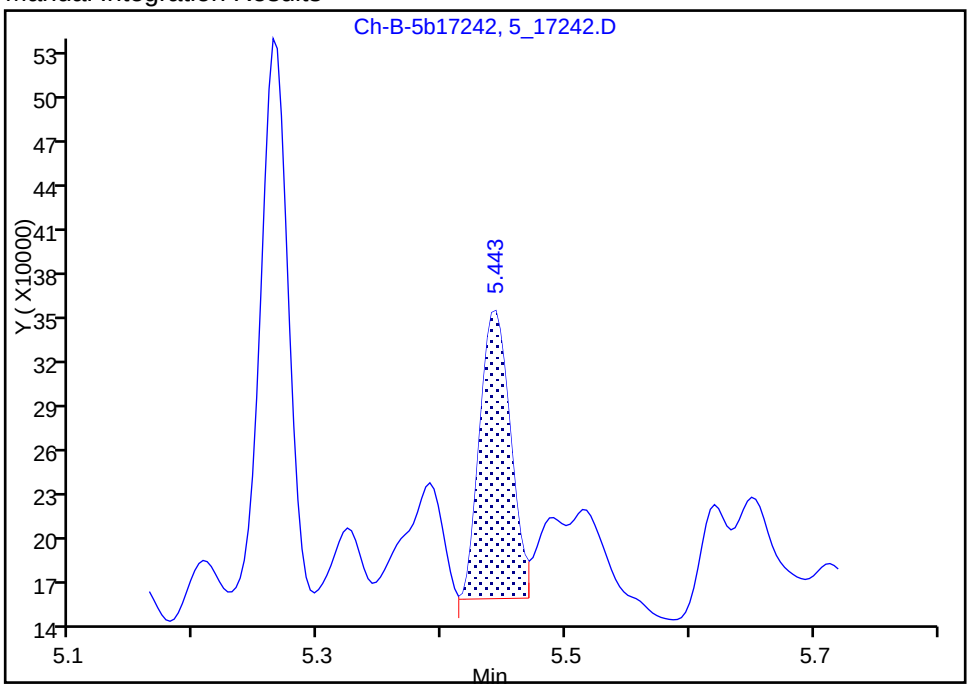
Processing Integration Results

RT: 5.44
Area: 509571
Amount: 0.009748
Amount Units: ng/ul



Manual Integration Results

RT: 5.44
Area: 337876
Amount: 0.006608
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:37
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

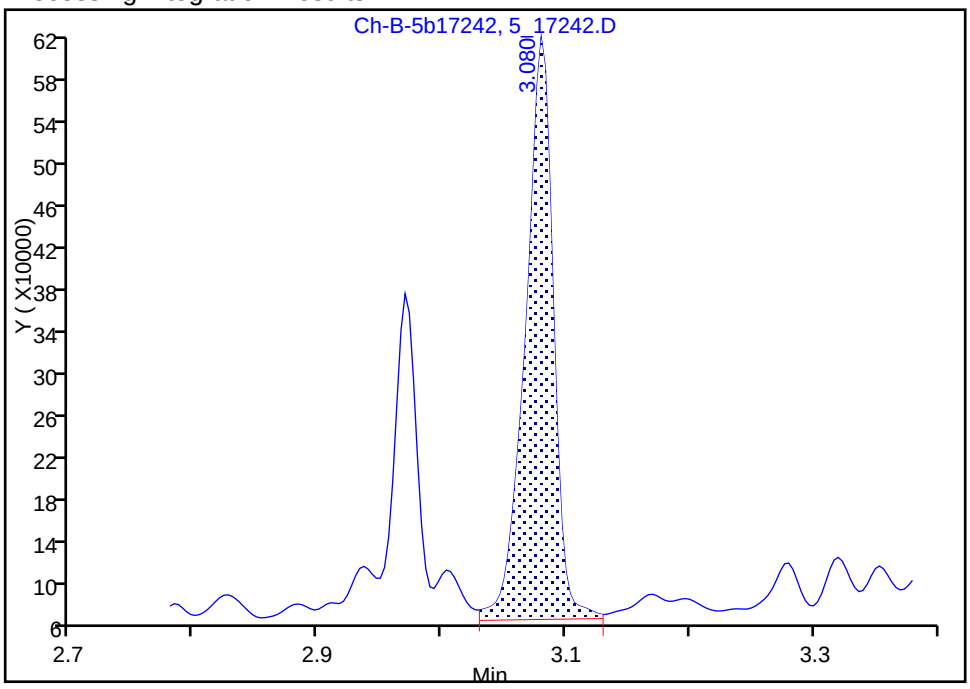
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

$ 1 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

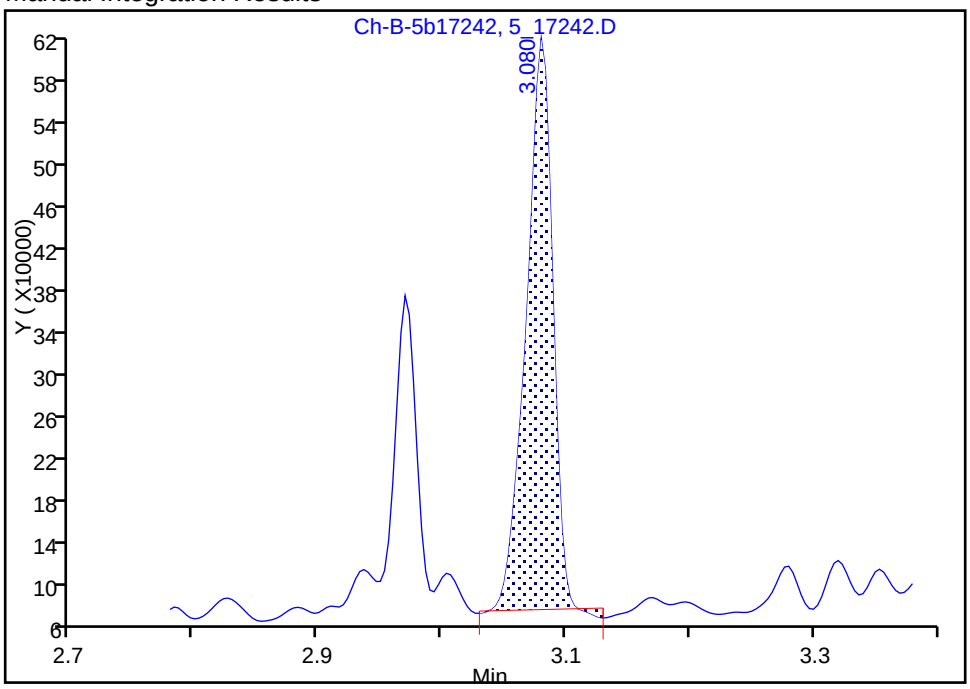
Processing Integration Results

RT: 3.08
Area: 867612
Amount: 0.017911
Amount Units: ng/ul



Manual Integration Results

RT: 3.08
Area: 792078
Amount: 0.016453
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

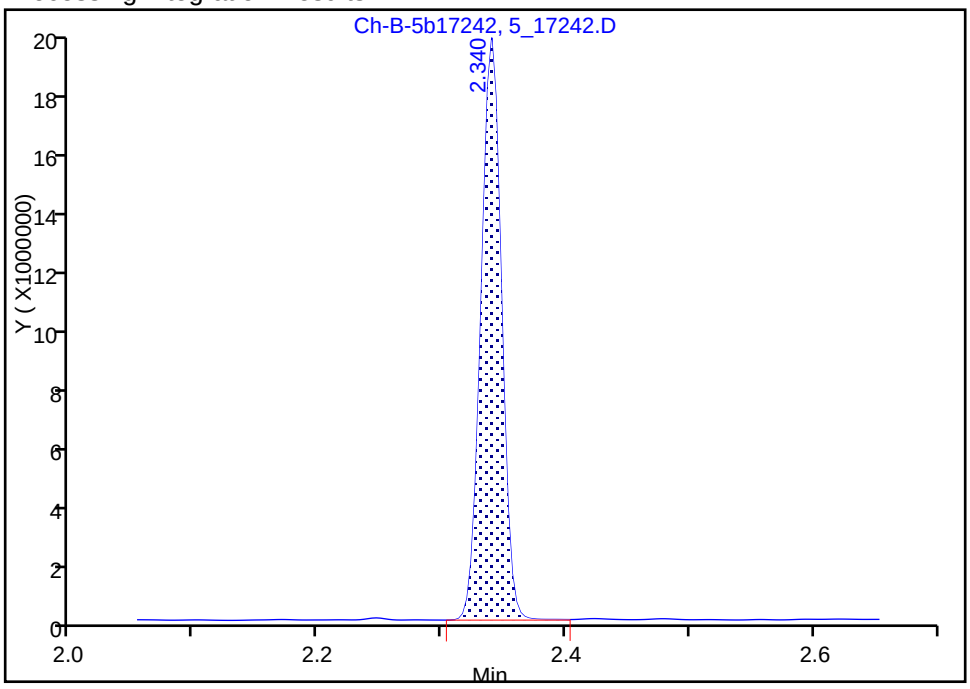
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17242.D				
Injection Date:	25-Aug-2017 20:35:03	Instrument ID:	HP6890-5		
Lims ID:	480-123215-D-1-A	Lab Sample ID:	480-123215-1		
Client ID:	NS-LDP-001-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

* 44 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

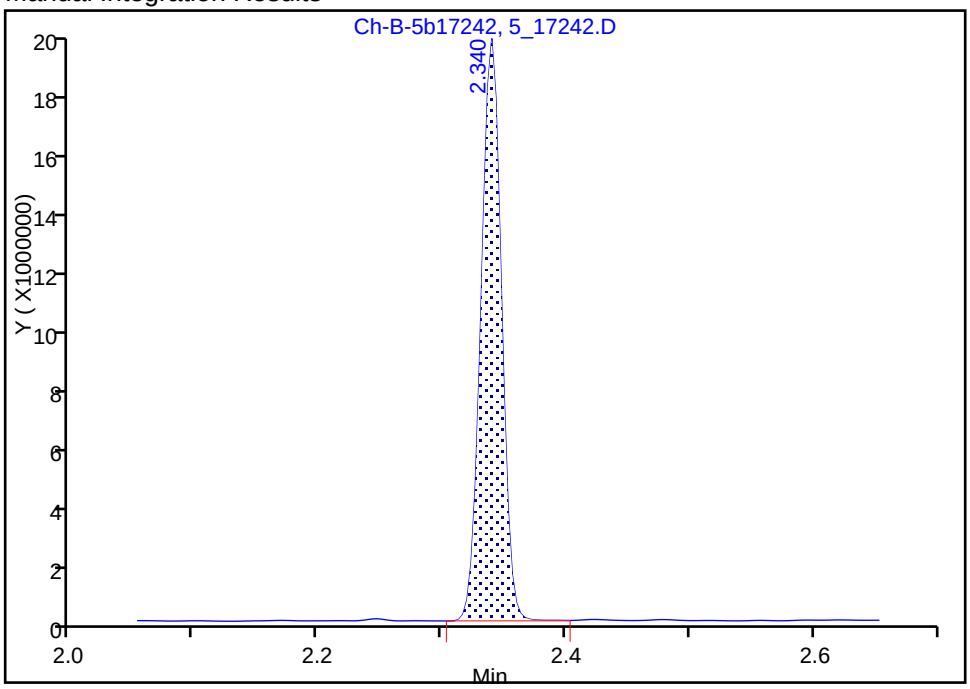
Processing Integration Results

RT: 2.34
Area: 22799852
Amount: 0.500000
Amount Units: ng/ul



Manual Integration Results

RT: 2.34
Area: 22774490
Amount: 0.500000
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:53:29

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-002-GW | Lab Sample ID: 480-123215-2

Matrix: Water | Lab File ID: 5_17243.D

Analysis Method: 8081B | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 250(mL) | Date Analyzed: 08/25/2017 20:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.25	0.046
72-55-9	4,4'-DDE	ND		0.25	0.058
50-29-3	4,4'-DDT	0.086	J	0.25	0.055
309-00-2	Aldrin	0.073	J	0.25	0.041
319-84-6	alpha-BHC	ND		0.25	0.039
5103-71-9	alpha-Chlordane	ND		0.25	0.074
319-85-7	beta-BHC	ND		0.25	0.12
319-86-8	delta-BHC	ND		0.25	0.050
60-57-1	Dieldrin	ND		0.25	0.049
959-98-8	Endosulfan I	ND		0.25	0.055
33213-65-9	Endosulfan II	ND		0.25	0.060
1031-07-8	Endosulfan sulfate	ND		0.25	0.079
72-20-8	Endrin	ND		0.25	0.069
7421-93-4	Endrin aldehyde	ND		0.25	0.082
53494-70-5	Endrin ketone	ND		0.25	0.060
58-89-9	gamma-BHC (Lindane)	0.072	J	0.25	0.040
5103-74-2	gamma-Chlordane	ND		0.25	0.055
76-44-8	Heptachlor	ND		0.25	0.043
1024-57-3	Heptachlor epoxide	ND		0.25	0.037
72-43-5	Methoxychlor	ND		0.25	0.071
8001-35-2	Toxaphene	ND		2.5	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	62		20-120
877-09-8	Tetrachloro-m-xylene	0	X	44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17243.D
Lims ID: 480-123215-E-2-A
Client ID: NS-LDP-002-GW
Sample Type: Client
Inject. Date: 25-Aug-2017 20:54:35 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

First Level Reviewer: NearyM Date: 26-Aug-2017 09:56:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						M
1	2.117	2.127	-0.010	55028074	0.5000	M
2	2.340	2.340	0.000	22140618	0.5000	
					RPD = 0.00	
$ 2 DCB Decachlorobiphenyl						
1	7.977	7.987	-0.010	221165	0.002465	
2	9.133	9.137	-0.004	44268	0.001792	
					RPD = 31.62	
6 gamma-BHC (Lindane)						M
1	3.370	3.367	0.003	106637	0.001789	M
2	3.997	4.010	-0.013	84313	0.002529	
					RPD = 34.28	
10 Aldrin						M
1	4.077	4.083	-0.006	244037	0.001830	M
2	4.857	4.847	0.010	42371	0.001526	
					RPD = 18.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
26	4,4'-DDT					M
1	5.913	5.927	-0.014	142515	0.002153	M
2	6.920	6.913	0.007	29928	0.002244	M
					RPD = 4.12	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

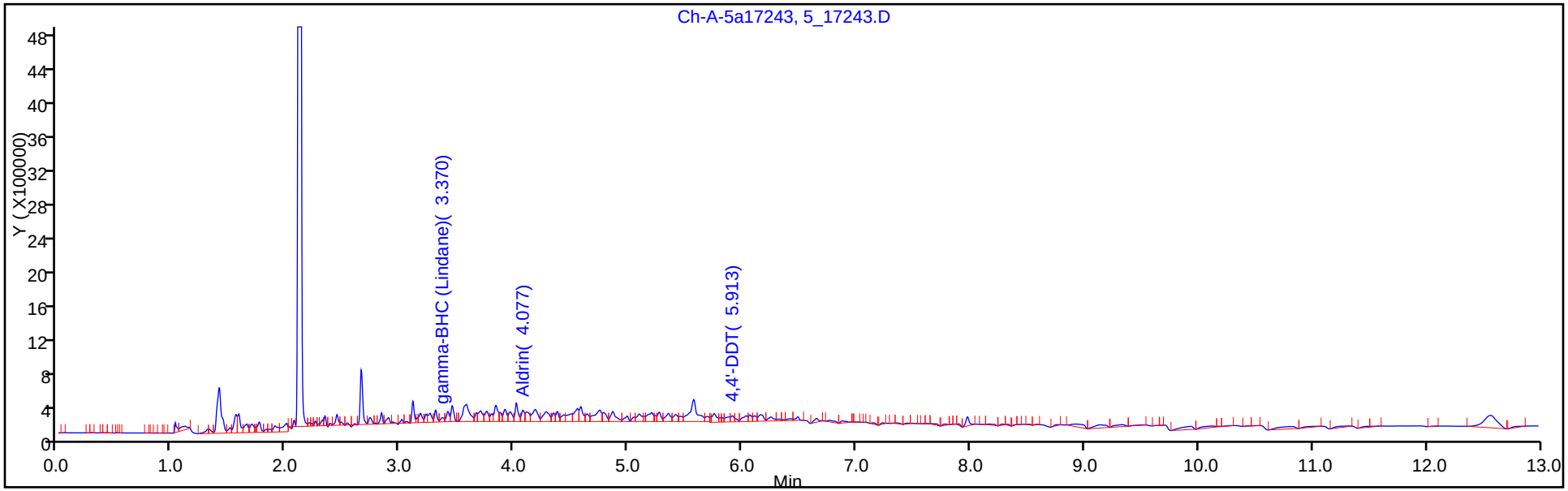
Report Date: 26-Aug-2017 10:08:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

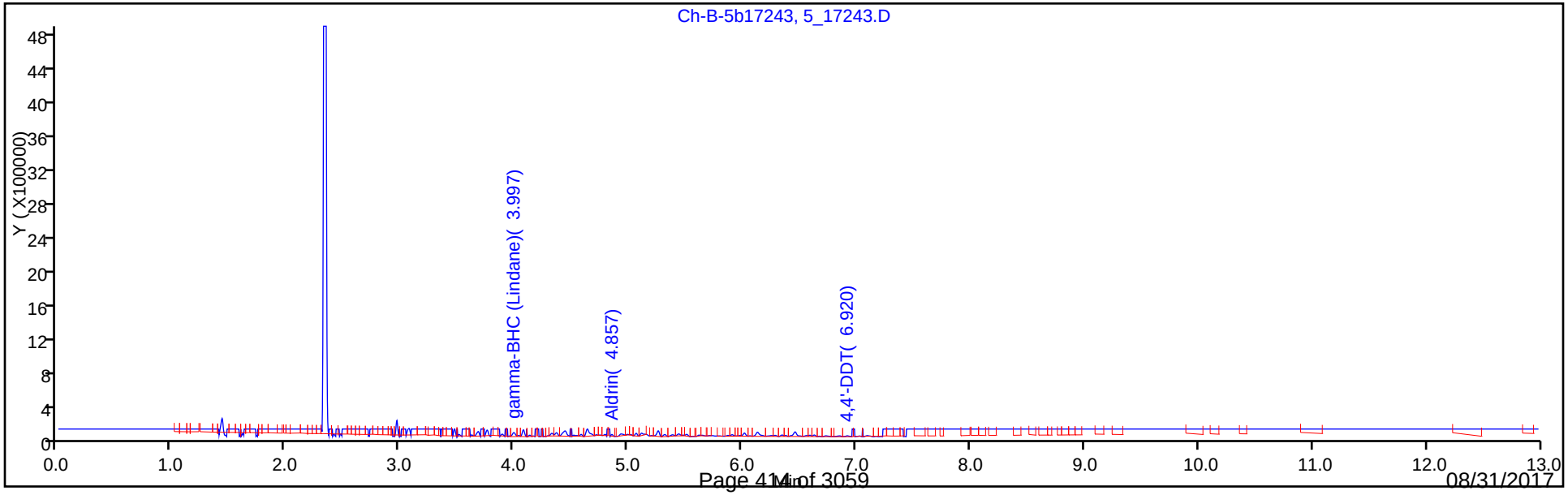
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17243.D

Injection Date:	25-Aug-2017 20:54:35	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	480-123215-E-2-A	Lab Sample ID:	480-123215-2	Worklist Smp#:	26
Client ID:	NS-LDP-002-GW				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

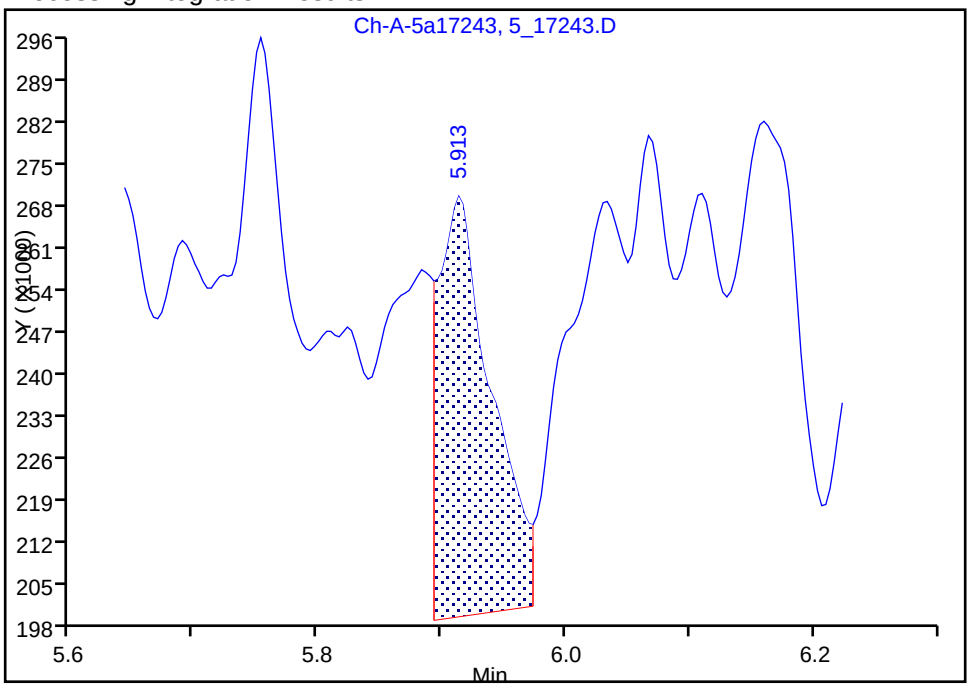
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17243.D				
Injection Date:	25-Aug-2017 20:54:35	Instrument ID:	HP6890-5		
Lims ID:	480-123215-E-2-A	Lab Sample ID:	480-123215-2		
Client ID:	NS-LDP-002-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

26 4,4'-DDT, CAS: 50-29-3

Signal: 1

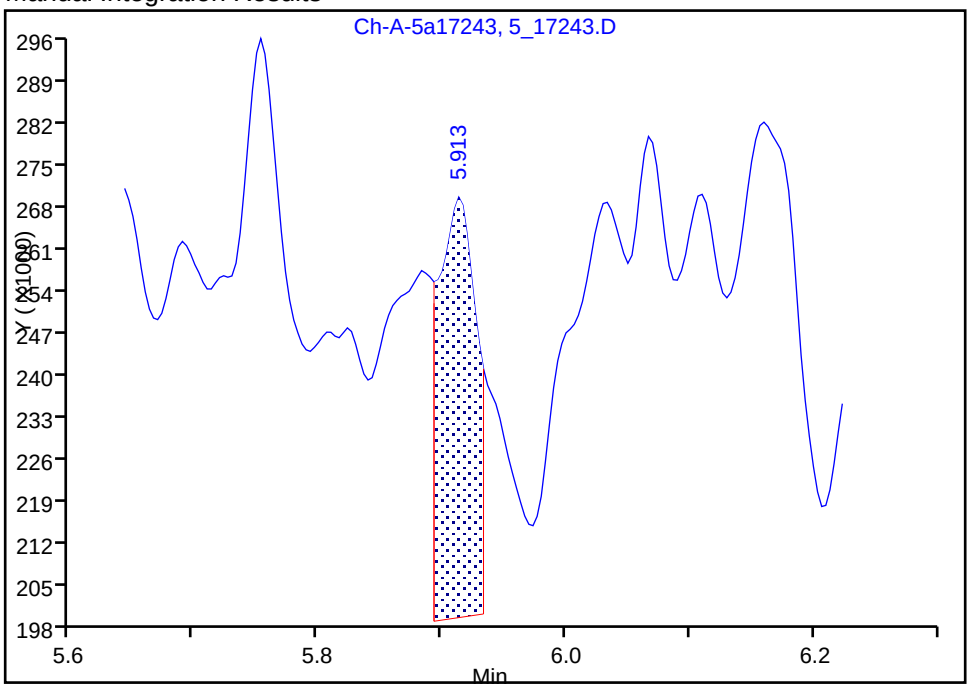
Processing Integration Results

RT: 5.91
Area: 205193
Amount: 0.002621
Amount Units: ng/ul



Manual Integration Results

RT: 5.91
Area: 142515
Amount: 0.002153
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:55:13

Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

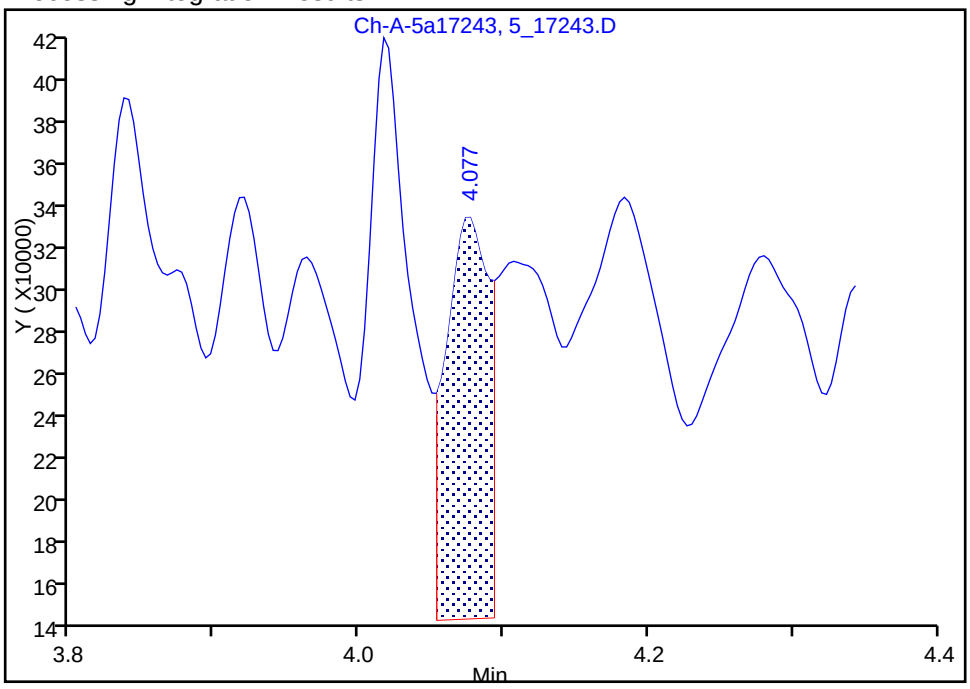
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17243.D				
Injection Date:	25-Aug-2017 20:54:35	Instrument ID:	HP6890-5		
Lims ID:	480-123215-E-2-A	Lab Sample ID:	480-123215-2		
Client ID:	NS-LDP-002-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

10 Aldrin, CAS: 309-00-2

Signal: 1

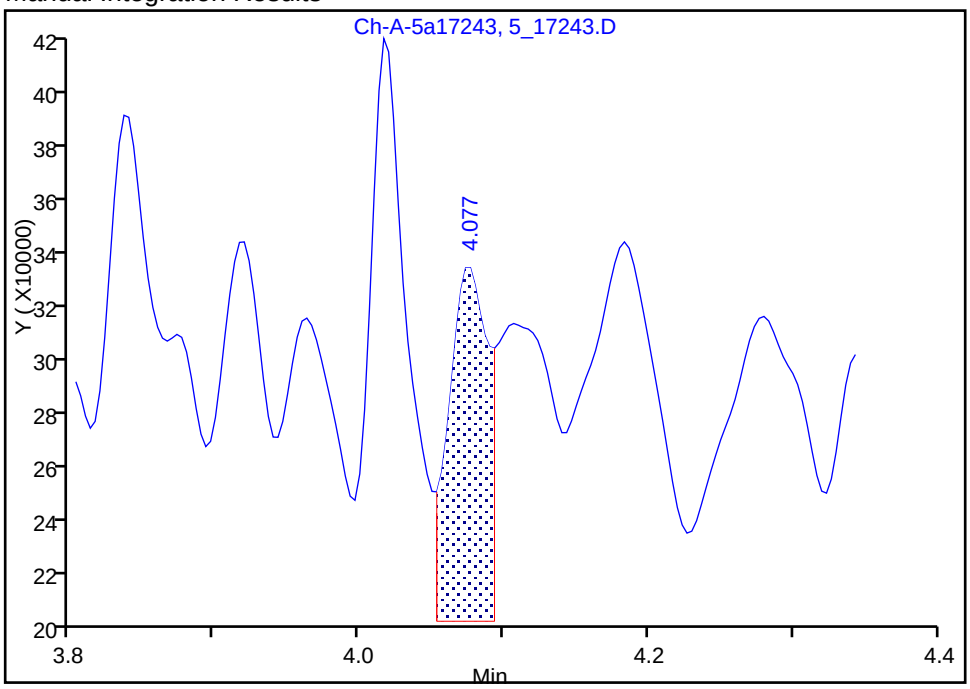
Processing Integration Results

RT: 4.08
Area: 384318
Amount: 0.002644
Amount Units: ng/ul



Manual Integration Results

RT: 4.08
Area: 244037
Amount: 0.001830
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:54:53

Audit Action: Assigned New Baseline Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

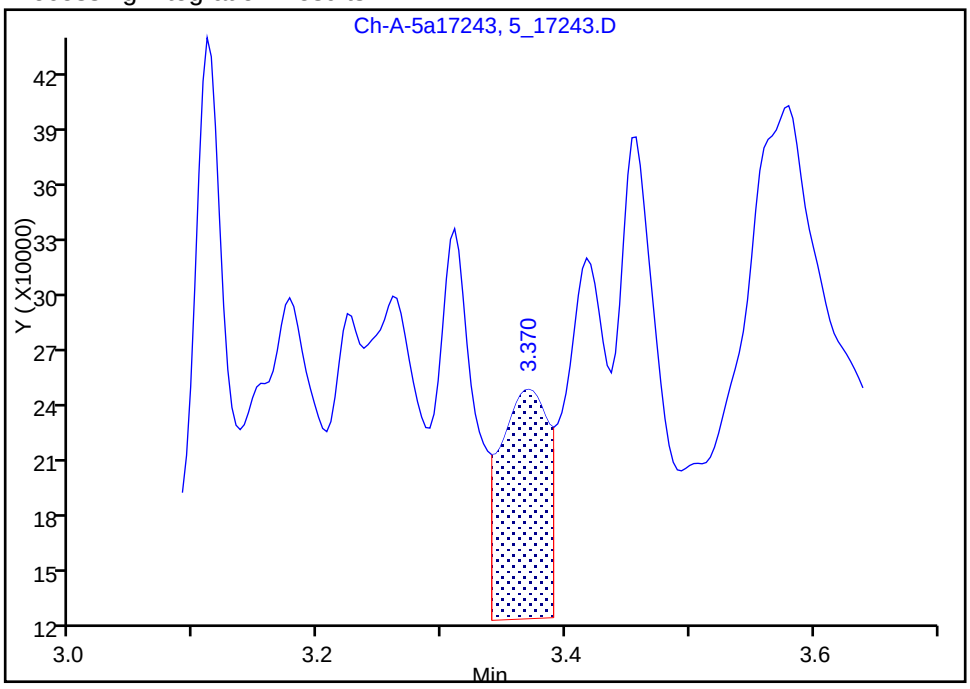
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17243.D				
Injection Date:	25-Aug-2017 20:54:35	Instrument ID:	HP6890-5		
Lims ID:	480-123215-E-2-A	Lab Sample ID:	480-123215-2		
Client ID:	NS-LDP-002-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

6 gamma-BHC (Lindane), CAS: 58-89-9

Signal: 1

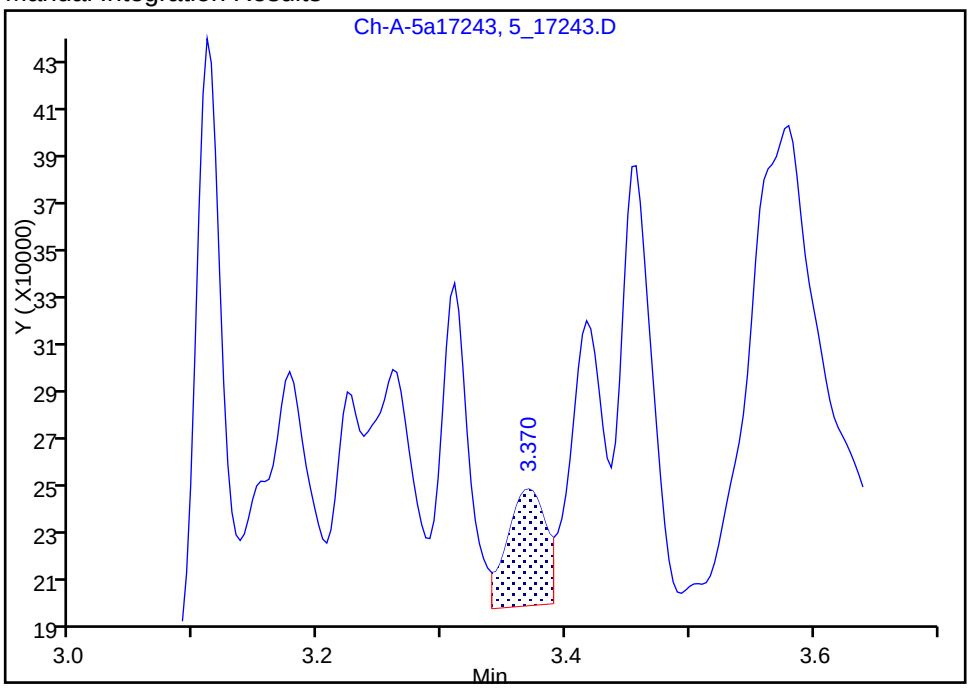
Processing Integration Results

RT: 3.37
Area: 331440
Amount: 0.002909
Amount Units: ng/ul



Manual Integration Results

RT: 3.37
Area: 106637
Amount: 0.001789
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:54:49
Audit Action: Assigned New Baseline Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

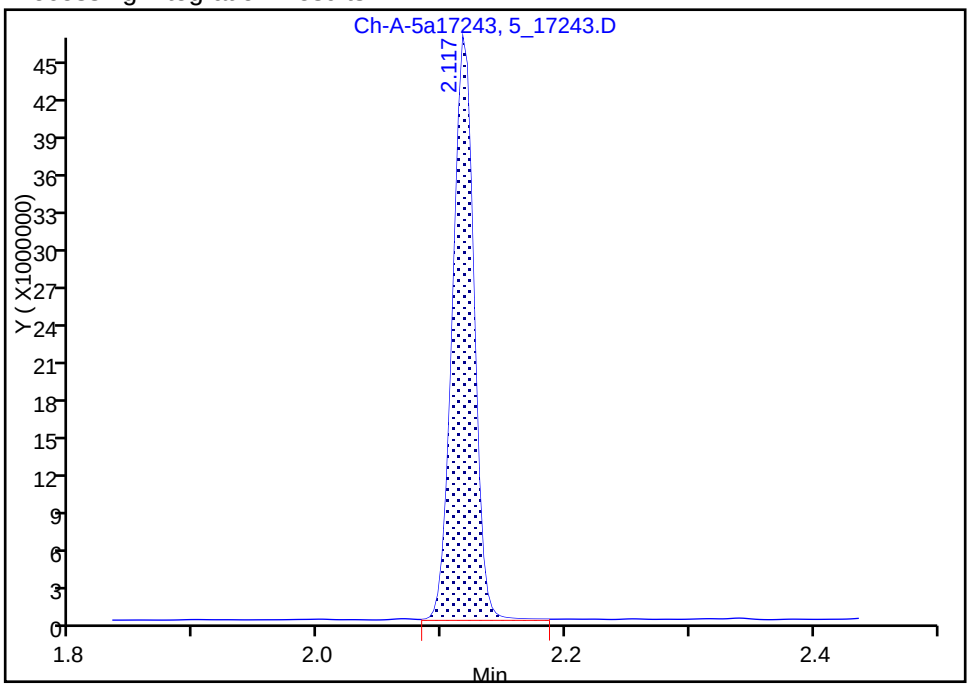
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17243.D				
Injection Date:	25-Aug-2017 20:54:35	Instrument ID:	HP6890-5		
Lims ID:	480-123215-E-2-A	Lab Sample ID:	480-123215-2		
Client ID:	NS-LDP-002-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

* 44 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

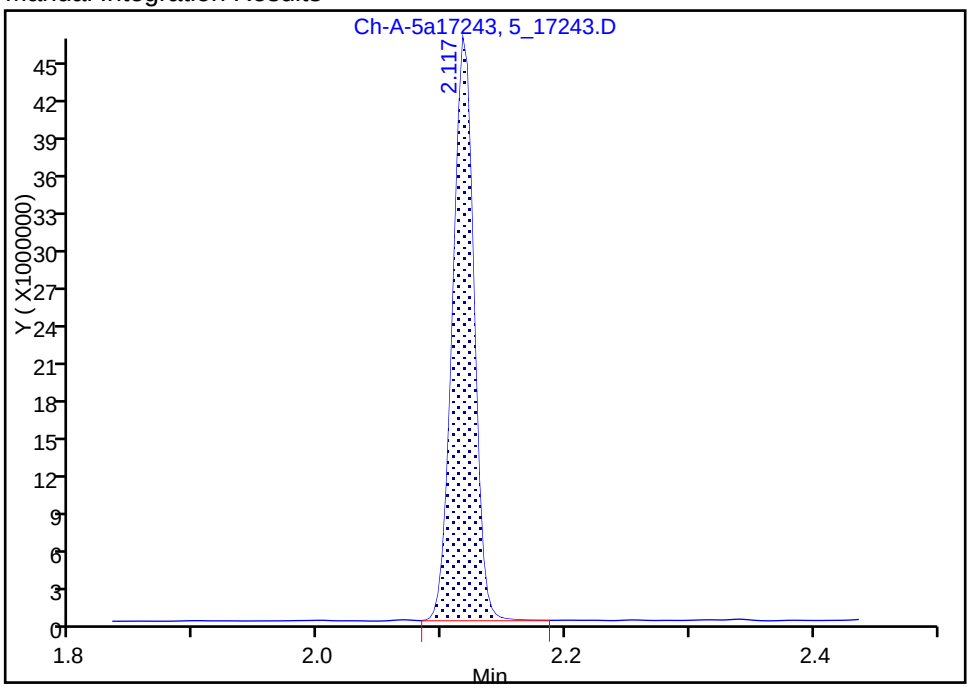
Processing Integration Results

RT: 2.12
Area: 55389407
Amount: 0.500000
Amount Units: ng/ul



Manual Integration Results

RT: 2.12
Area: 55028074
Amount: 0.500000
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:54:49

Audit Action: Assigned New Baseline Audit Reason: Shouldering

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-002-GW | Lab Sample ID: 480-123215-2

Matrix: Water | Lab File ID: 5_17243.D

Analysis Method: 8081B | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 250(mL) | Date Analyzed: 08/25/2017 20:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 5

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	45		20-120
877-09-8	Tetrachloro-m-xylene	0	X	44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17243.D
Lims ID: 480-123215-E-2-A
Client ID: NS-LDP-002-GW
Sample Type: Client
Inject. Date: 25-Aug-2017 20:54:35 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

First Level Reviewer: NearyM Date: 26-Aug-2017 09:56:41

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						M
1	2.117	2.127	-0.010	55028074	0.5000	M
2	2.340	2.340	0.000	22140618	0.5000	
					RPD = 0.00	
$ 2 DCB Decachlorobiphenyl						
1	7.977	7.987	-0.010	221165	0.002465	
2	9.133	9.137	-0.004	44268	0.001792	
					RPD = 31.62	
6 gamma-BHC (Lindane)						M
1	3.370	3.367	0.003	106637	0.001789	M
2	3.997	4.010	-0.013	84313	0.002529	
					RPD = 34.28	
10 Aldrin						M
1	4.077	4.083	-0.006	244037	0.001830	M
2	4.857	4.847	0.010	42371	0.001526	
					RPD = 18.14	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
26	4,4'-DDT					M
1	5.913	5.927	-0.014	142515	0.002153	M
2	6.920	6.913	0.007	29928	0.002244	M
					RPD = 4.12	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

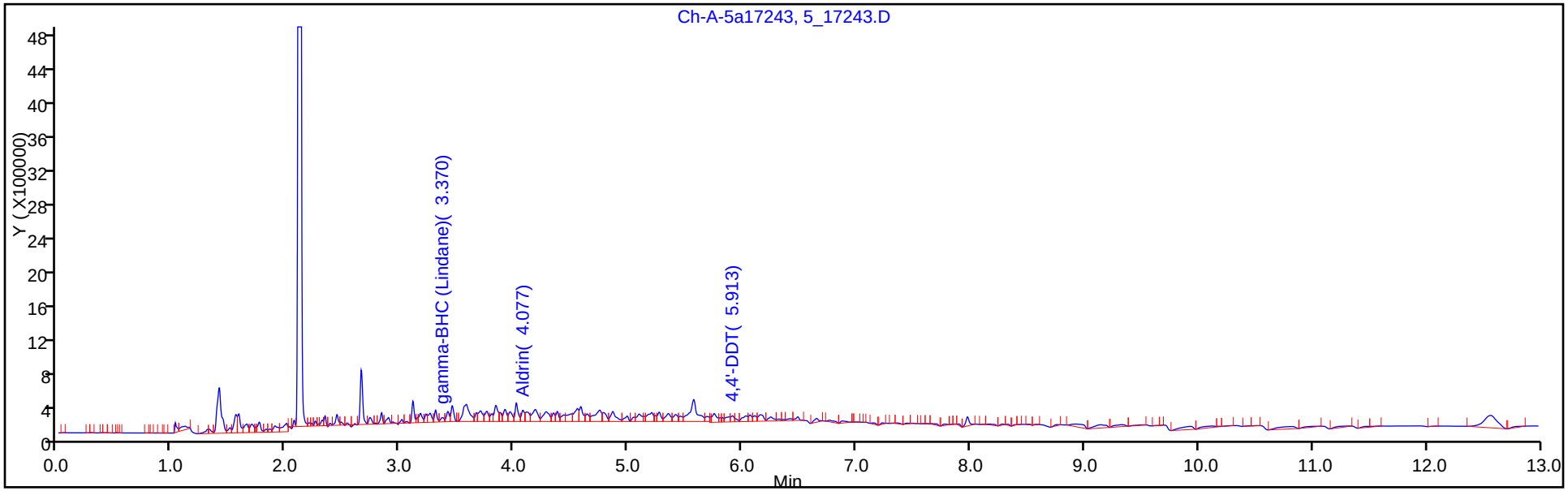
Report Date: 26-Aug-2017 10:08:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

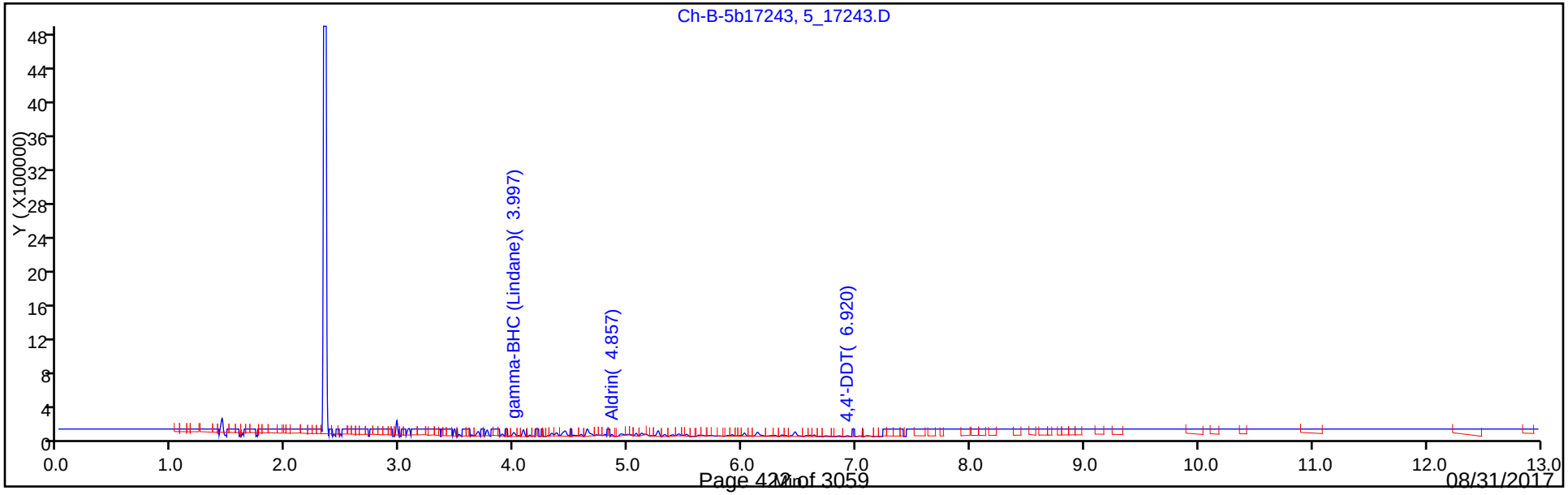
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17243.D

Injection Date:	25-Aug-2017 20:54:35	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	480-123215-E-2-A	Lab Sample ID:	480-123215-2	Worklist Smp#:	26
Client ID:	NS-LDP-002-GW				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

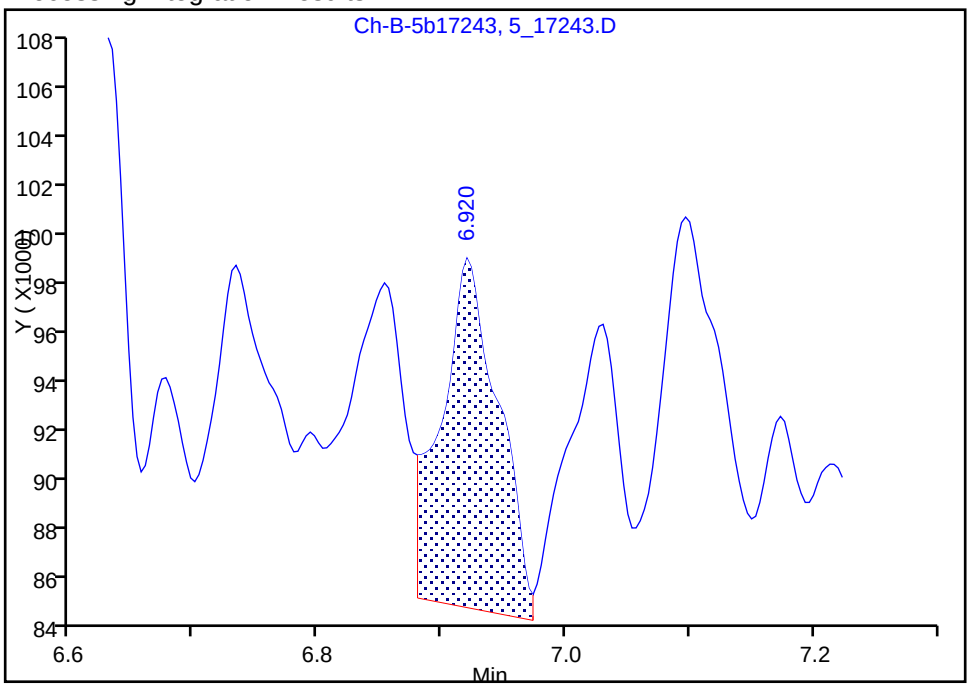
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17243.D				
Injection Date:	25-Aug-2017 20:54:35	Instrument ID:	HP6890-5		
Lims ID:	480-123215-E-2-A	Lab Sample ID:	480-123215-2		
Client ID:	NS-LDP-002-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

26 4,4'-DDT, CAS: 50-29-3

Signal: 2

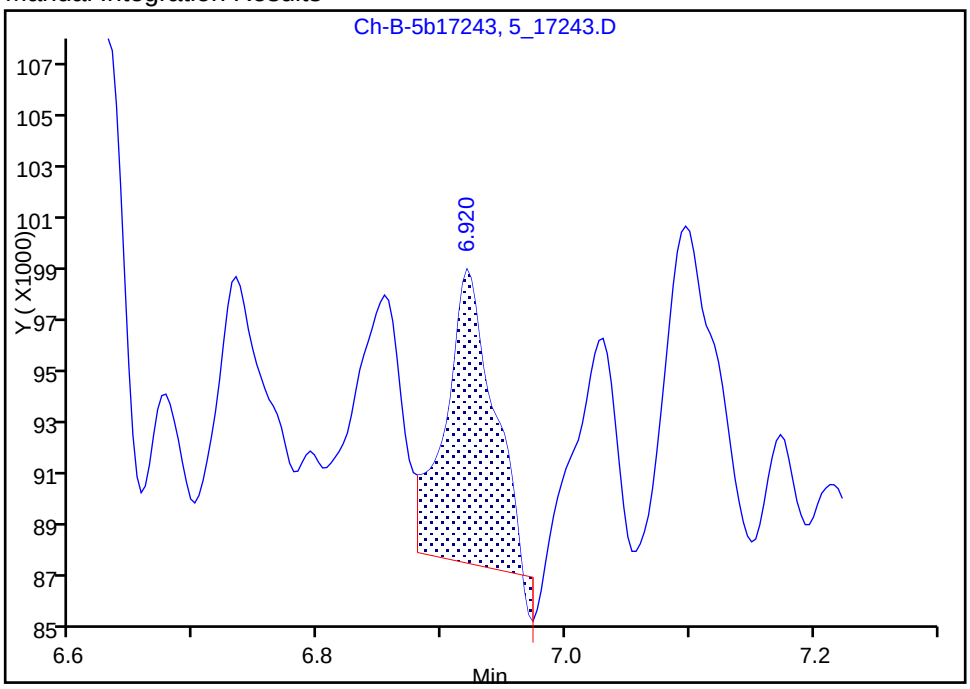
Processing Integration Results

RT: 6.92
Area: 45336
Amount: 0.002575
Amount Units: ng/ul



Manual Integration Results

RT: 6.92
Area: 29928
Amount: 0.002244
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:56:03

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-003-GW | Lab Sample ID: 480-123215-3

Matrix: Water | Lab File ID: 5_17244.D

Analysis Method: 8081B | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 240(mL) | Date Analyzed: 08/25/2017 21:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.044	J	0.052	0.0096
72-55-9	4,4'-DDE	ND		0.052	0.012
50-29-3	4,4'-DDT	0.043	J	0.052	0.011
309-00-2	Aldrin	0.021	J	0.052	0.0084
319-84-6	alpha-BHC	ND		0.052	0.0080
5103-71-9	alpha-Chlordane	ND		0.052	0.015
319-85-7	beta-BHC	ND		0.052	0.026
319-86-8	delta-BHC	ND		0.052	0.010
60-57-1	Dieldrin	ND		0.052	0.010
959-98-8	Endosulfan I	0.029	J	0.052	0.011
33213-65-9	Endosulfan II	ND		0.052	0.013
1031-07-8	Endosulfan sulfate	ND		0.052	0.016
72-20-8	Endrin	ND		0.052	0.014
7421-93-4	Endrin aldehyde	ND		0.052	0.017
53494-70-5	Endrin ketone	ND		0.052	0.013
58-89-9	gamma-BHC (Lindane)	ND		0.052	0.0083
5103-74-2	gamma-Chlordane	ND		0.052	0.011
76-44-8	Heptachlor	ND		0.052	0.0089
1024-57-3	Heptachlor epoxide	ND		0.052	0.0077
72-43-5	Methoxychlor	ND		0.052	0.015
8001-35-2	Toxaphene	ND		0.52	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	61		20-120
877-09-8	Tetrachloro-m-xylene	185	X	44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D
Lims ID: 480-123215-A-3-A
Client ID: NS-LDP-003-GW
Sample Type: Client
Inject. Date: 25-Aug-2017 21:14:25 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

First Level Reviewer: NearyM Date: 26-Aug-2017 09:59:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						M
1	2.117	2.127	-0.010	53641009	0.5000	M
2	2.337	2.340	-0.003	21806030	0.5000	M
					RPD = 0.00	
$ 1 Tetrachloro-m-xylene						M
1	2.660	2.673	-0.013	3022524	0.0369	M
2	3.080	3.083	-0.003	911140	0.0196	M
					RPD = 61.48	
$ 2 DCB Decachlorobiphenyl						
1	7.973	7.987	-0.014	1013912	0.0121	
2	9.133	9.137	-0.004	183845	0.006166	
					RPD = 65.34	
10 Aldrin						M
1	4.070	4.083	-0.013	353335	0.002517	M
2	4.857	4.847	0.010	80676	0.002152	M
					RPD = 15.66	
13 Heptachlor epoxide						M
1	4.677	4.680	-0.003	115453	0.00001426	M
2	5.443	5.453	-0.010	206651	0.004368	M
					RPD = 198.70	
LOD = 0.001000						
15 alpha-Chlordane						M
1	4.943	4.943	0.000	156890	0.001595	M
2	5.803	5.813	-0.010	15718	0.001067	M
					RPD = 39.66	
18 Endosulfan I						M
1	5.090	5.080	0.010	500000	0.003508	M
2	5.877	5.883	-0.006	48316	0.001456	M
					RPD = 82.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
22 4,4'-DDD						M
1	5.630	5.637	-0.007	555179	0.005239	M
2	6.593	6.583	0.010	122024	0.003730	M
					RPD = 33.67	
26 4,4'-DDT						M
1	5.913	5.927	-0.014	525786	0.005114	M
2	6.923	6.913	0.010	104311	0.003874	M
					RPD = 27.59	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

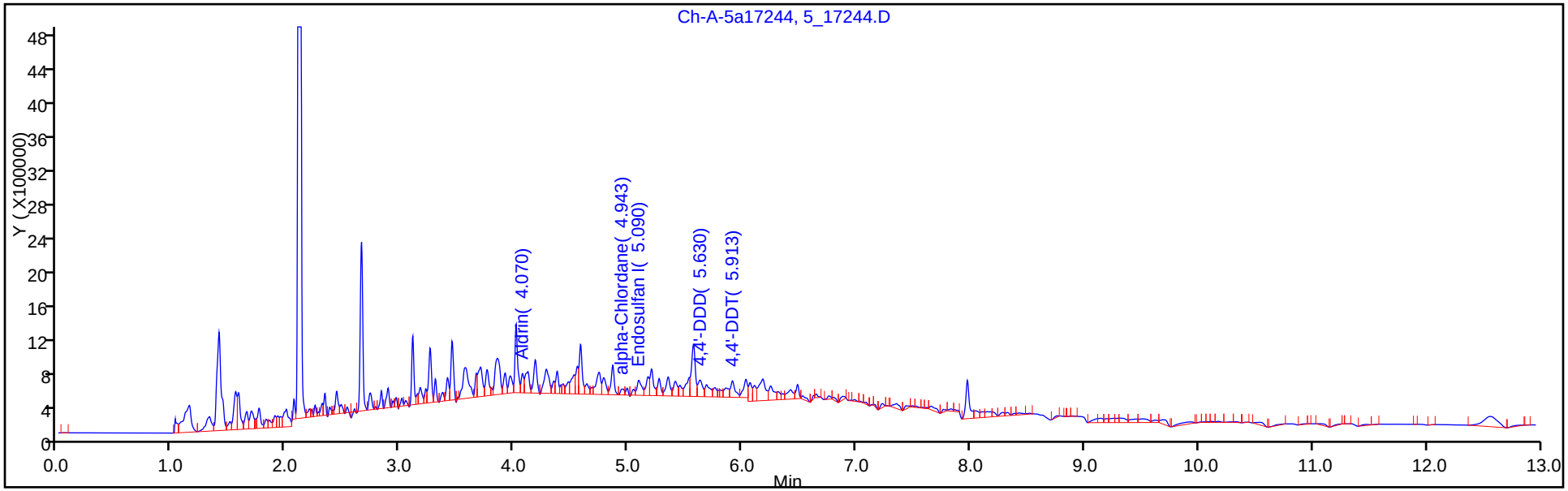
Report Date: 26-Aug-2017 10:08:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

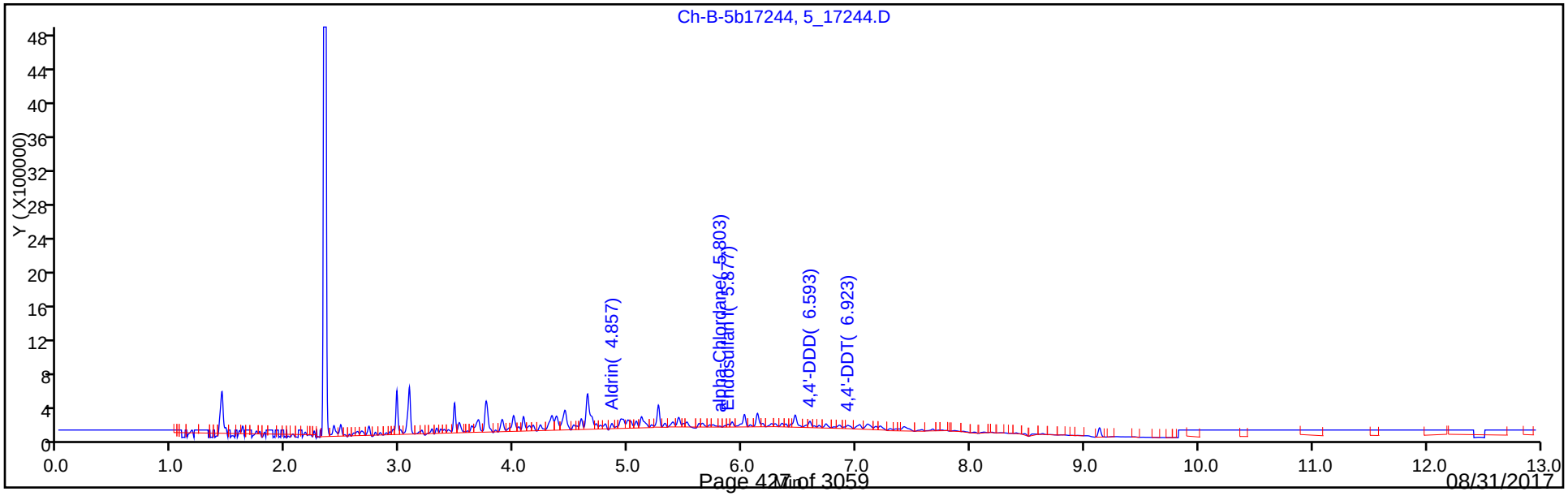
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D

Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3	Worklist Smp#:	27
Client ID:	NS-LDP-003-GW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

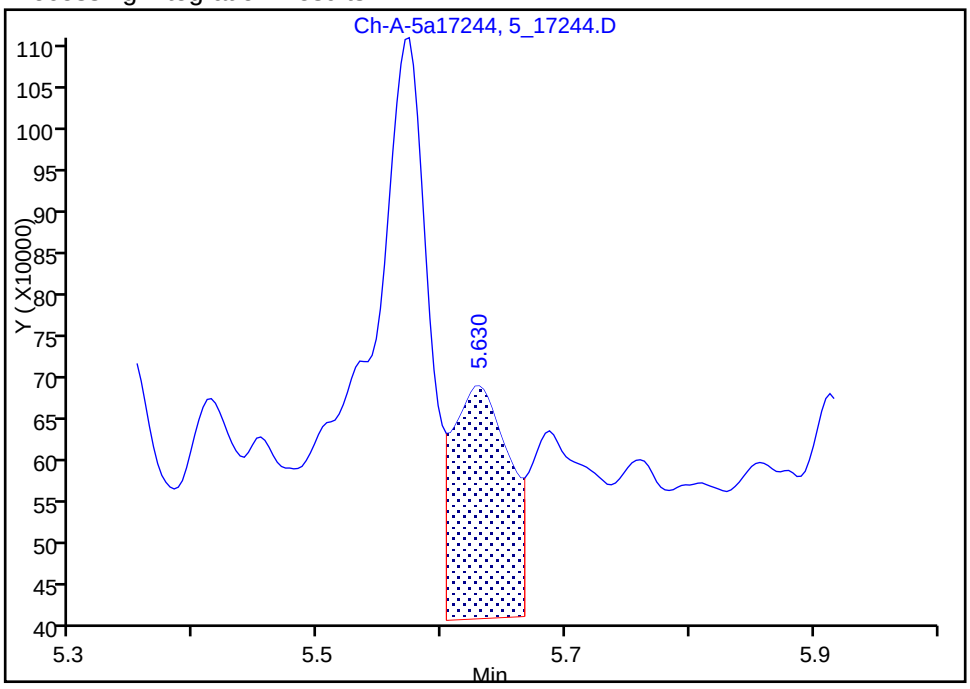
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

22 4,4'-DDD, CAS: 72-54-8

Signal: 1

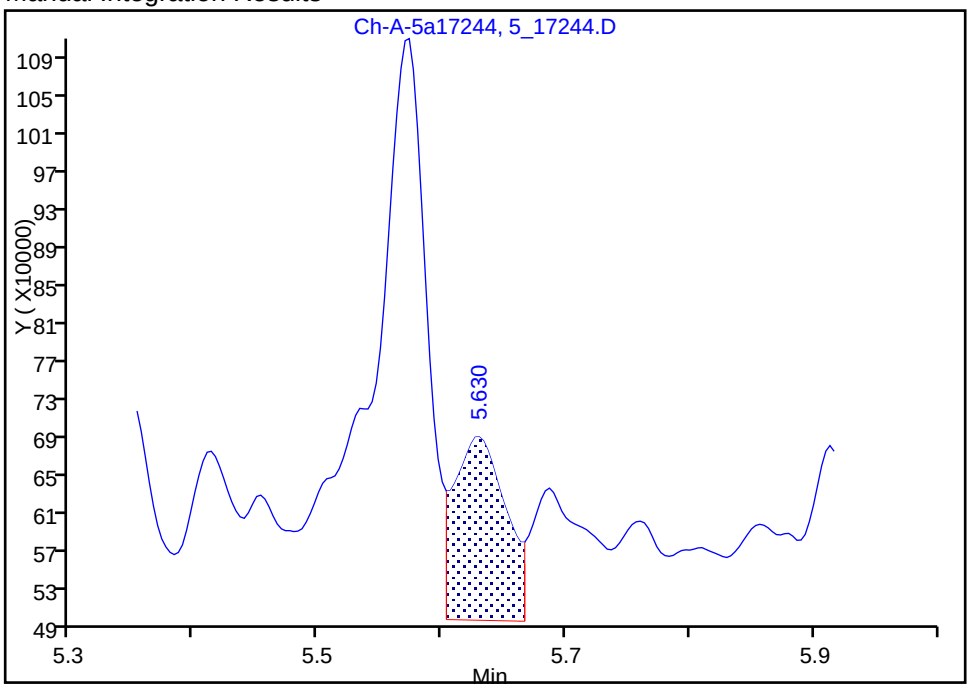
Processing Integration Results

RT: 5.63
Area: 883199
Amount: 0.007946
Amount Units: ng/ul



Manual Integration Results

RT: 5.63
Area: 555179
Amount: 0.005239
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

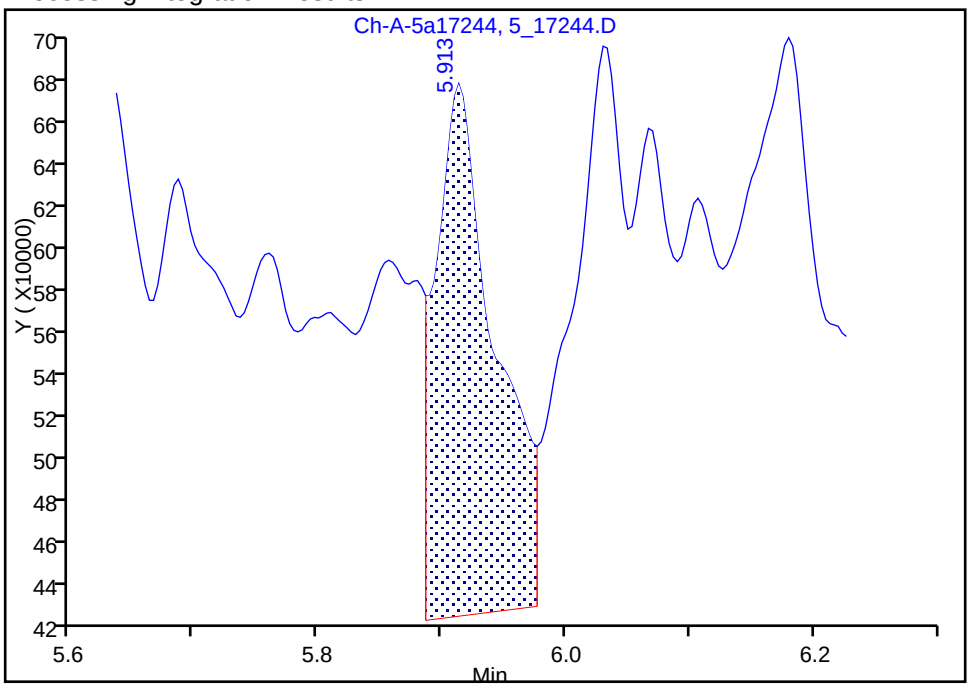
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

26 4,4'-DDT, CAS: 50-29-3

Signal: 1

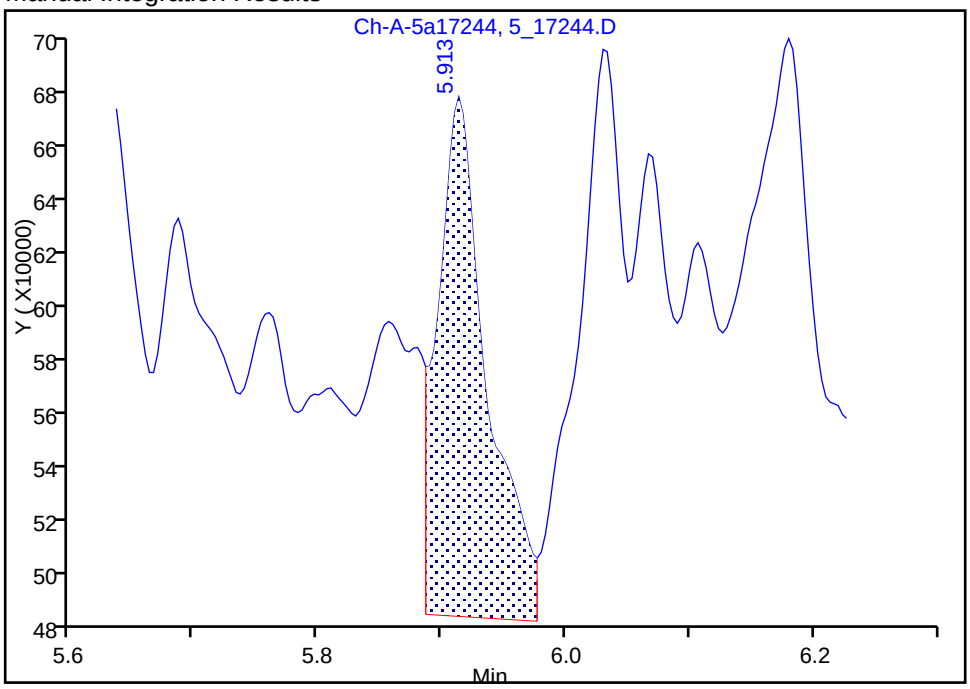
Processing Integration Results

RT: 5.91
Area: 829533
Amount: 0.007438
Amount Units: ng/ul



Manual Integration Results

RT: 5.91
Area: 525786
Amount: 0.005114
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

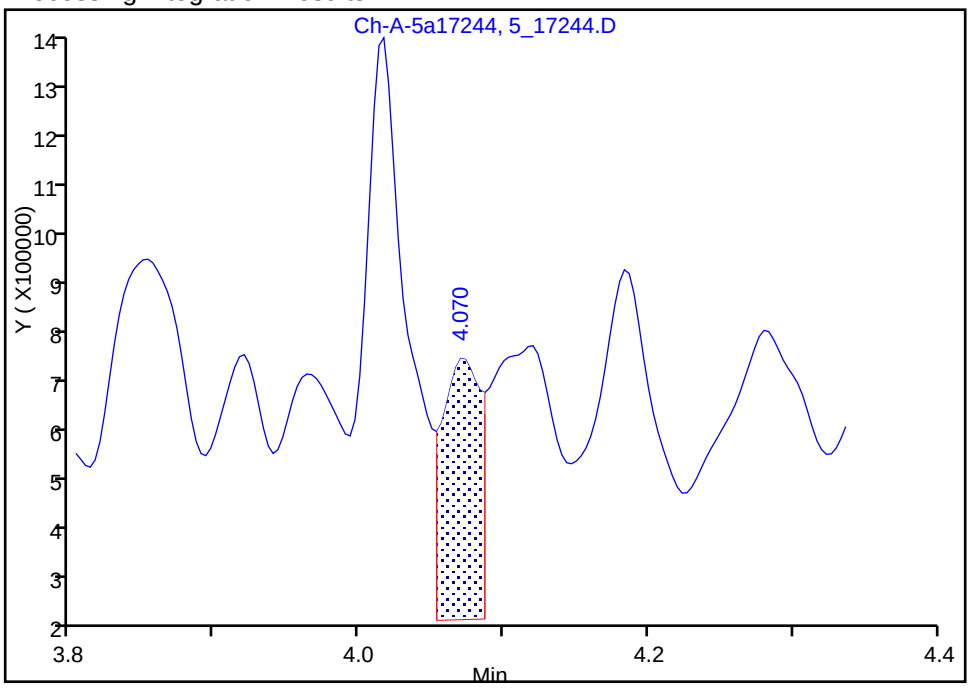
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D
Injection Date: 25-Aug-2017 21:14:25 Instrument ID: HP6890-5
Lims ID: 480-123215-A-3-A Lab Sample ID: 480-123215-3
Client ID: NS-LDP-003-GW
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS-8081 6890-5 Limit Group: GC - 8081B IS ICAL
Column: Detector Ch-A-6A58132

10 Aldrin, CAS: 309-00-2

Signal: 1

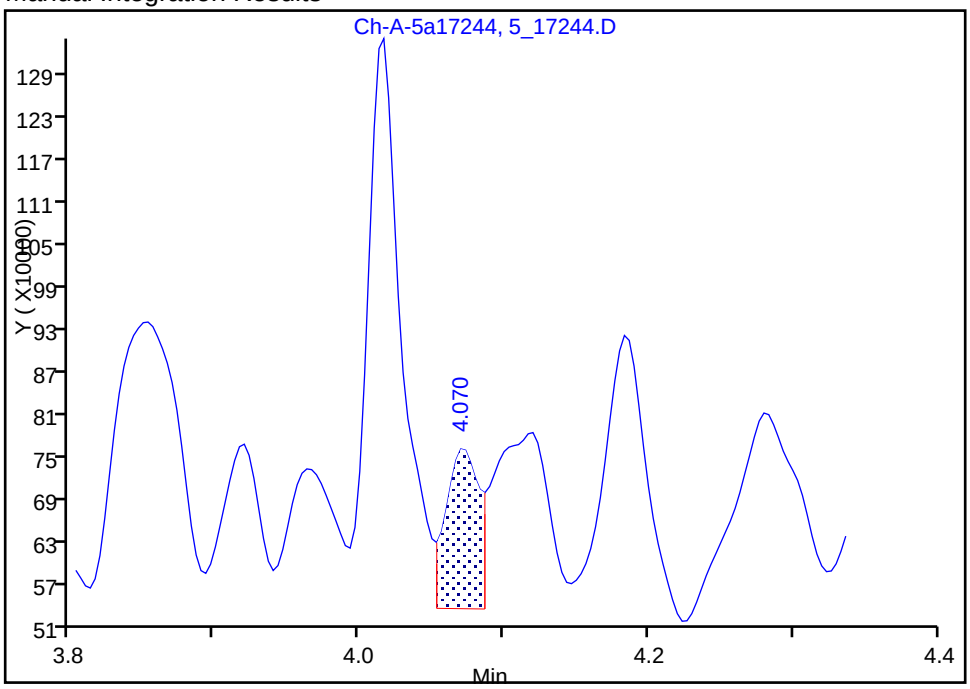
Processing Integration Results

RT: 4.07
Area: 843257
Amount: 0.005432
Amount Units: ng/ul



Manual Integration Results

RT: 4.07
Area: 353335
Amount: 0.002517
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:05
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

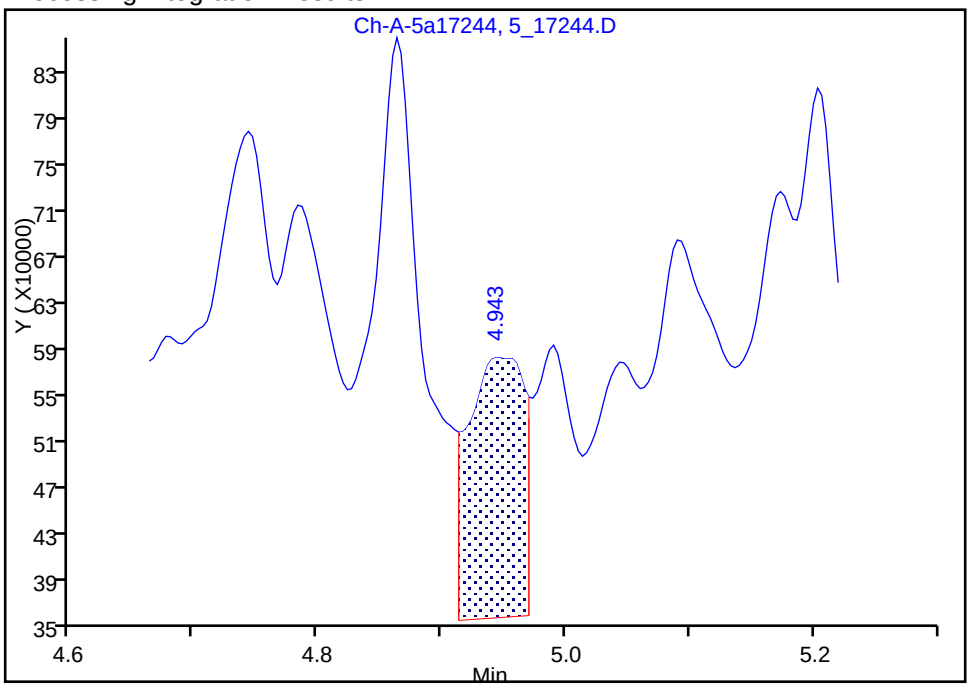
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

15 alpha-Chlordane, CAS: 5103-71-9

Signal: 1

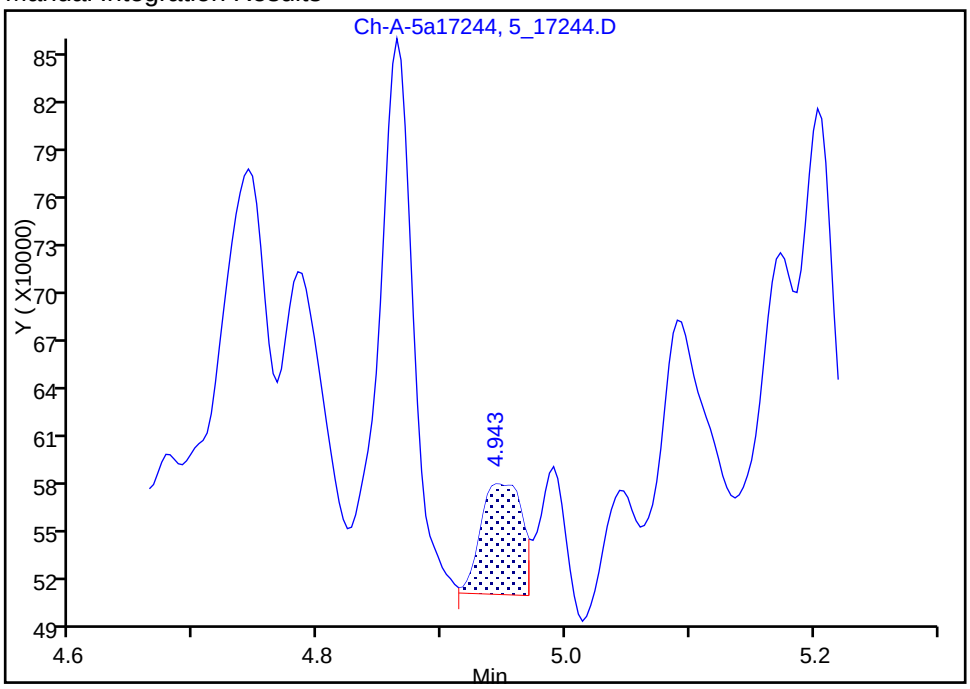
Processing Integration Results

RT: 4.94
Area: 689339
Amount: 0.005044
Amount Units: ng/ul



Manual Integration Results

RT: 4.94
Area: 156890
Amount: 0.001595
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:05
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

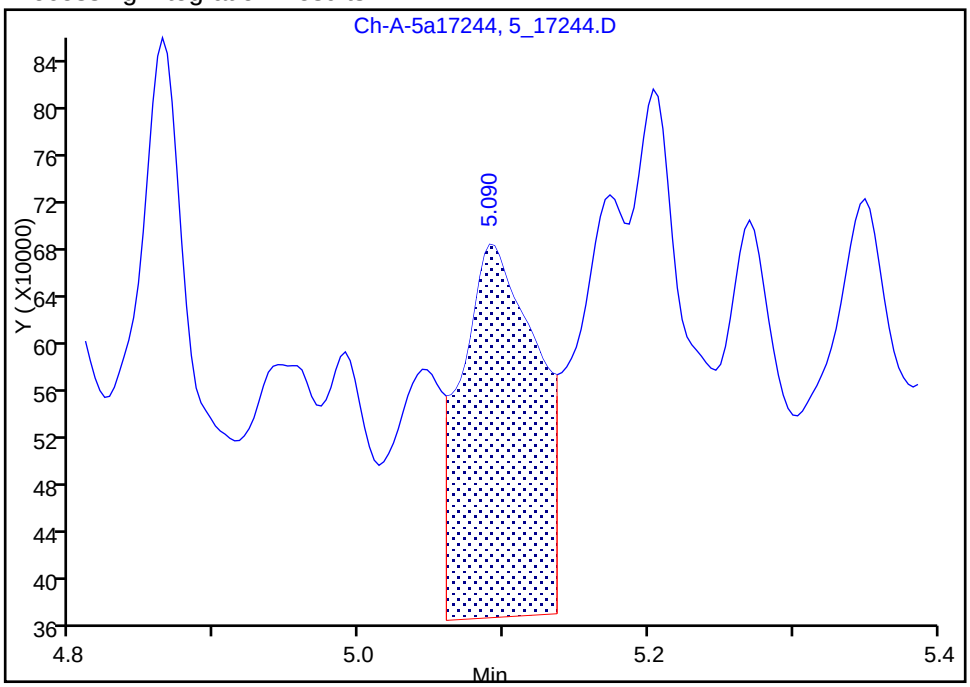
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

18 Endosulfan I, CAS: 959-98-8

Signal: 1

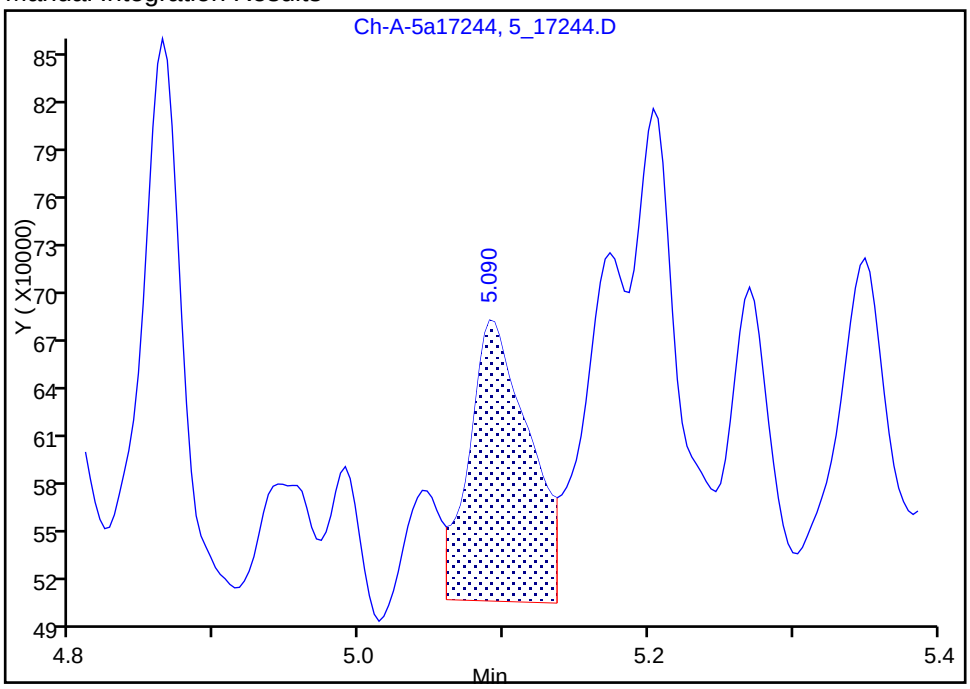
Processing Integration Results

RT: 5.09
Area: 1147319
Amount: 0.008912
Amount Units: ng/ul



Manual Integration Results

RT: 5.09
Area: 500000
Amount: 0.003508
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

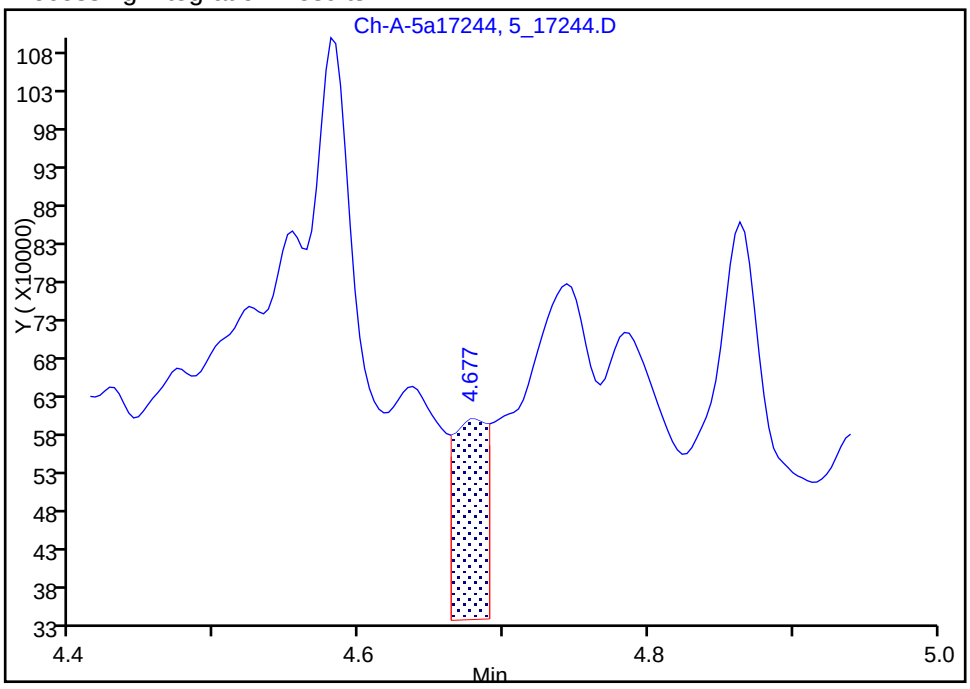
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

13 Heptachlor epoxide, CAS: 1024-57-3

Signal: 1

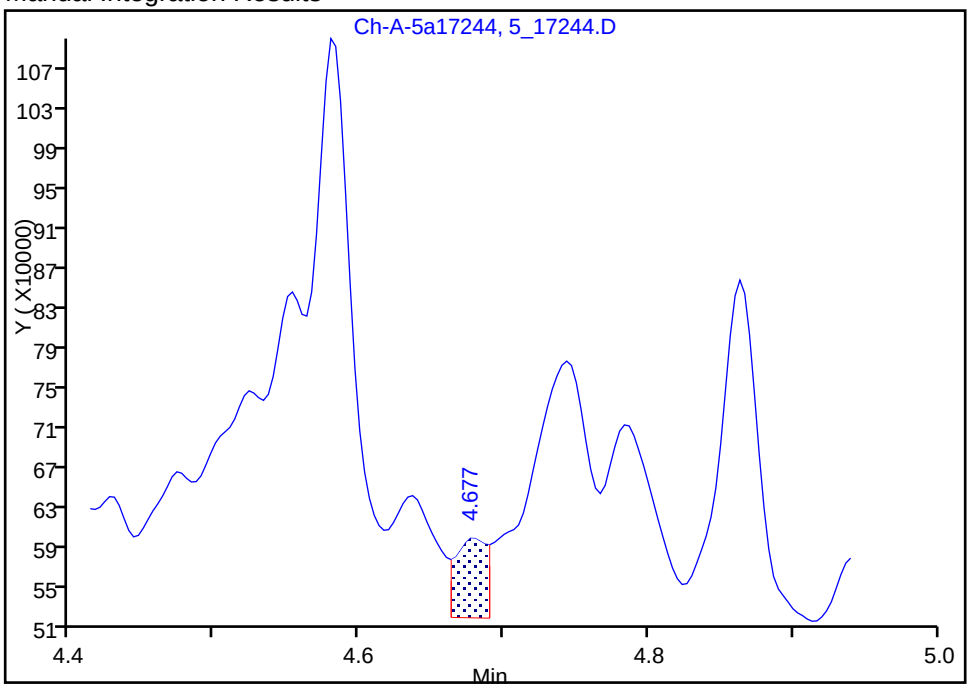
Processing Integration Results

RT: 4.68
Area: 408998
Amount: 0.002166
Amount Units: ng/ul



Manual Integration Results

RT: 4.68
Area: 115453
Amount: 0.000014
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

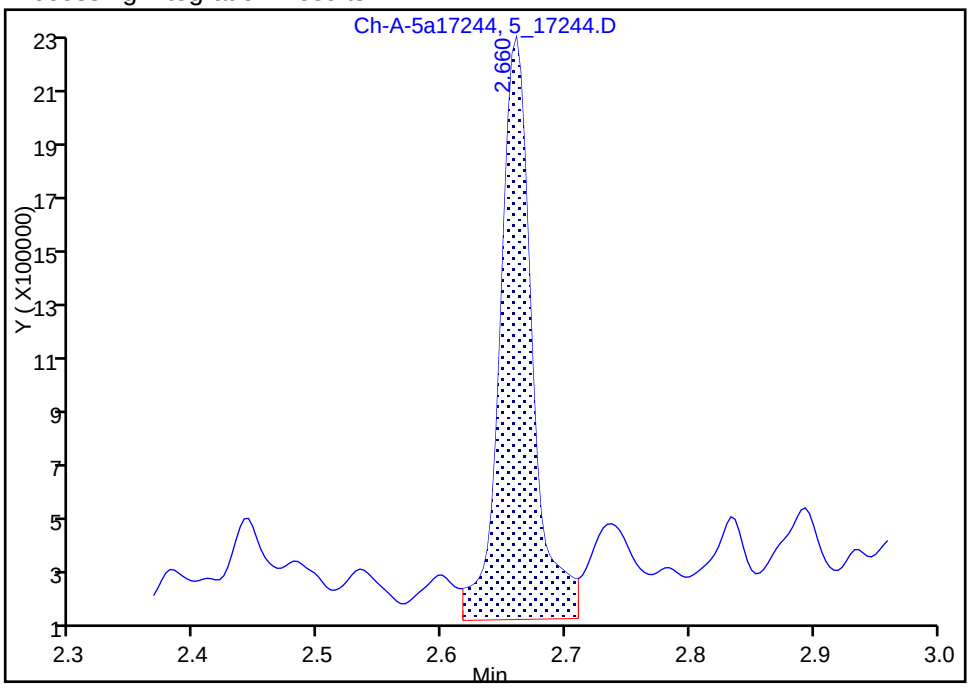
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

$ 1 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

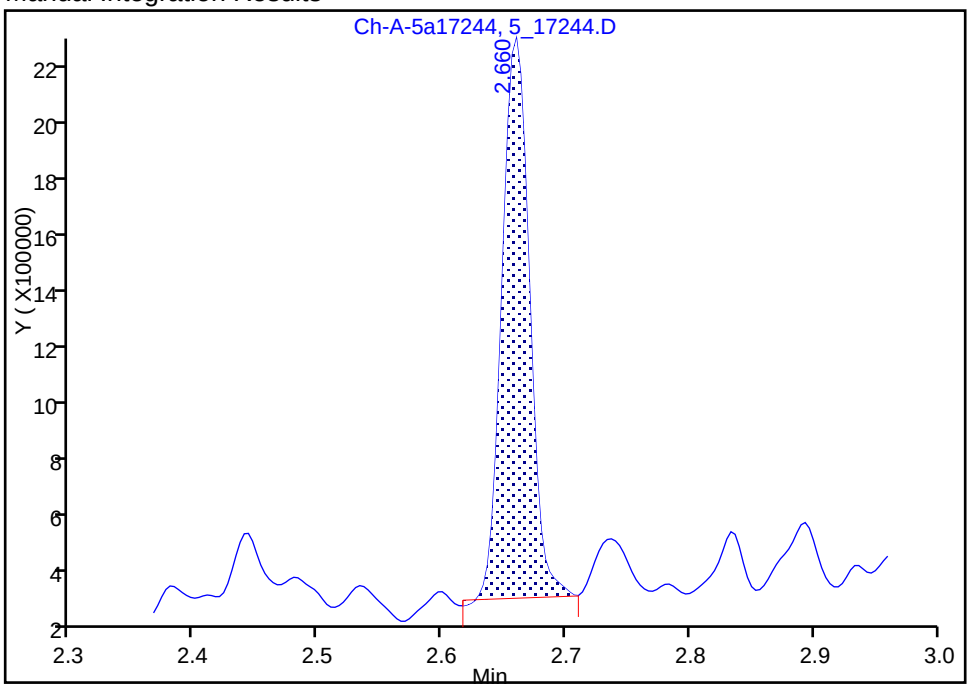
Processing Integration Results

RT: 2.66
Area: 3795870
Amount: 0.045590
Amount Units: ng/ul



Manual Integration Results

RT: 2.66
Area: 3022524
Amount: 0.036948
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:03

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

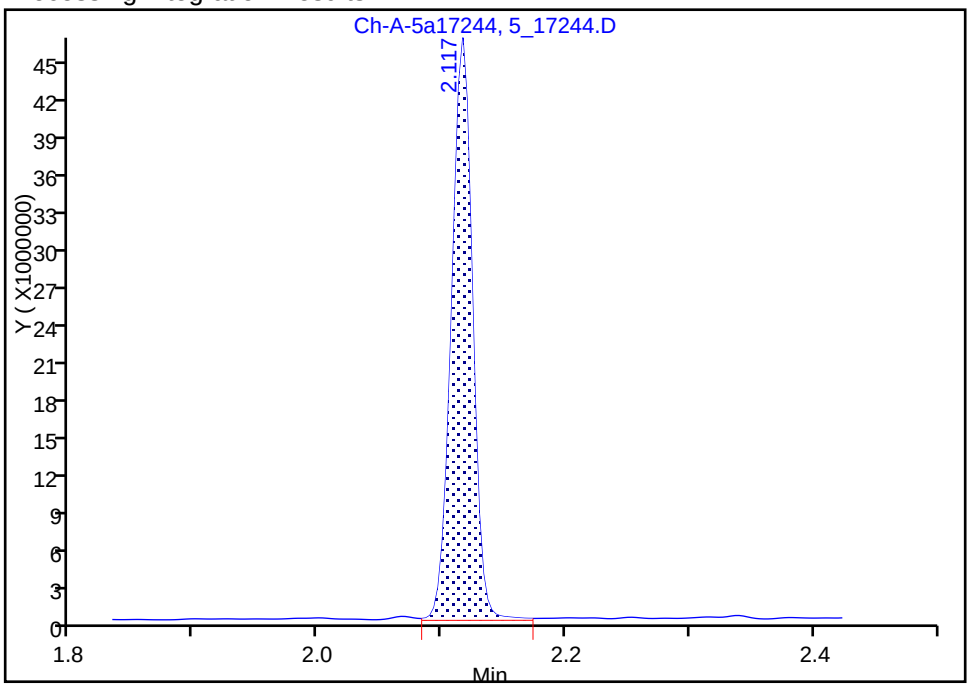
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-A-6A58132		

* 44 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

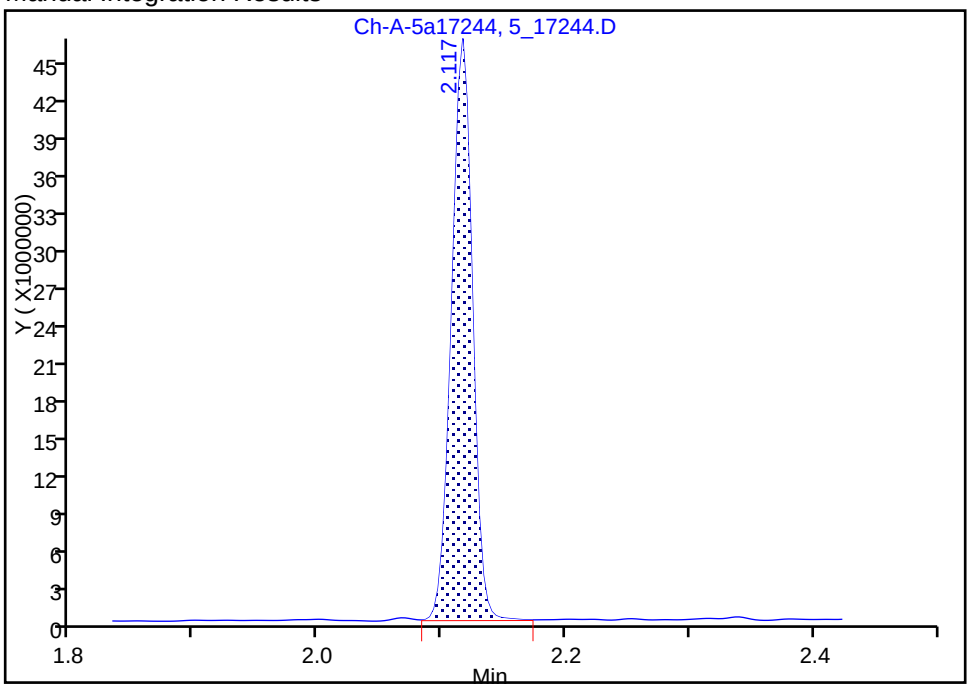
Processing Integration Results

RT: 2.12
Area: 54137663
Amount: 0.500000
Amount Units: ng/ul



Manual Integration Results

RT: 2.12
Area: 53641009
Amount: 0.500000
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:03

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-003-GW | Lab Sample ID: 480-123215-3

Matrix: Water | Lab File ID: 5_17244.D

Analysis Method: 8081B | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 240(mL) | Date Analyzed: 08/25/2017 21:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	31		20-120
877-09-8	Tetrachloro-m-xylene	98		44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D
Lims ID: 480-123215-A-3-A
Client ID: NS-LDP-003-GW
Sample Type: Client
Inject. Date: 25-Aug-2017 21:14:25 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

First Level Reviewer: NearyM Date: 26-Aug-2017 09:59:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene						M
1	2.117	2.127	-0.010	53641009	0.5000	M
2	2.337	2.340	-0.003	21806030	0.5000	M
					RPD = 0.00	
$ 1 Tetrachloro-m-xylene						M
1	2.660	2.673	-0.013	3022524	0.0369	M
2	3.080	3.083	-0.003	911140	0.0196	M
					RPD = 61.48	
$ 2 DCB Decachlorobiphenyl						
1	7.973	7.987	-0.014	1013912	0.0121	
2	9.133	9.137	-0.004	183845	0.006166	
					RPD = 65.34	
10 Aldrin						M
1	4.070	4.083	-0.013	353335	0.002517	M
2	4.857	4.847	0.010	80676	0.002152	M
					RPD = 15.66	
13 Heptachlor epoxide						M
1	4.677	4.680	-0.003	115453	0.00001426	M
2	5.443	5.453	-0.010	206651	0.004368	M
					RPD = 198.70	
LOD = 0.001000						
15 alpha-Chlordane						M
1	4.943	4.943	0.000	156890	0.001595	M
2	5.803	5.813	-0.010	15718	0.001067	M
					RPD = 39.66	
18 Endosulfan I						M
1	5.090	5.080	0.010	500000	0.003508	M
2	5.877	5.883	-0.006	48316	0.001456	M
					RPD = 82.67	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Flags
22 4,4'-DDD						M
1	5.630	5.637	-0.007	555179	0.005239	M
2	6.593	6.583	0.010	122024	0.003730	M
					RPD = 33.67	
26 4,4'-DDT						M
1	5.913	5.927	-0.014	525786	0.005114	M
2	6.923	6.913	0.010	104311	0.003874	M
					RPD = 27.59	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

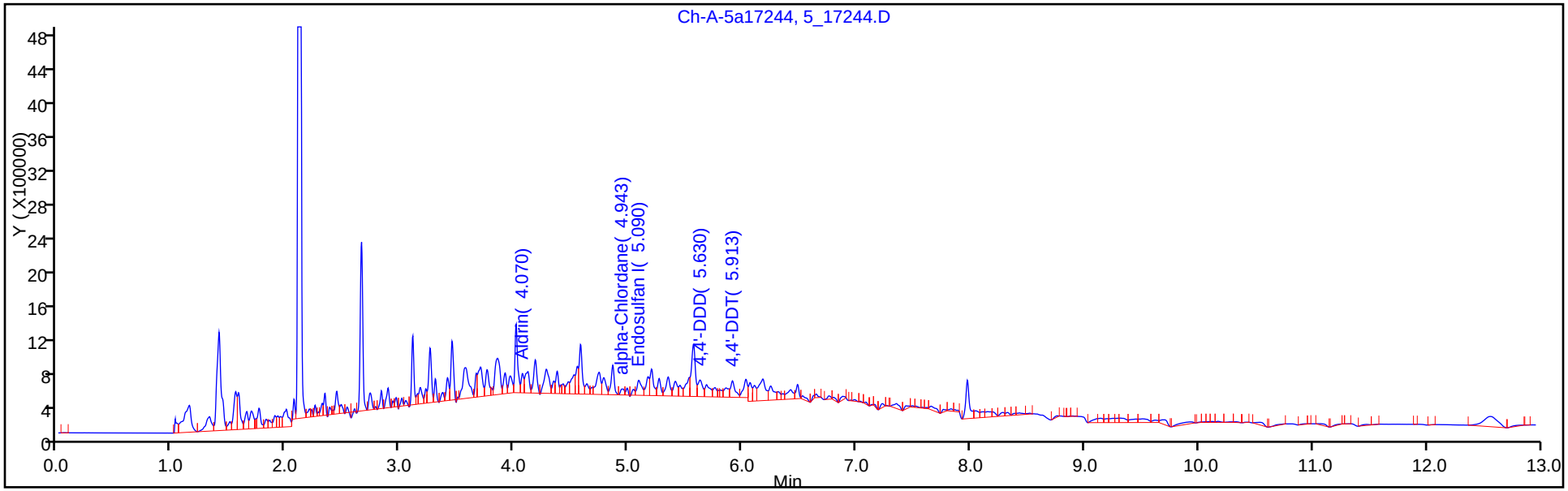
Report Date: 26-Aug-2017 10:08:52 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

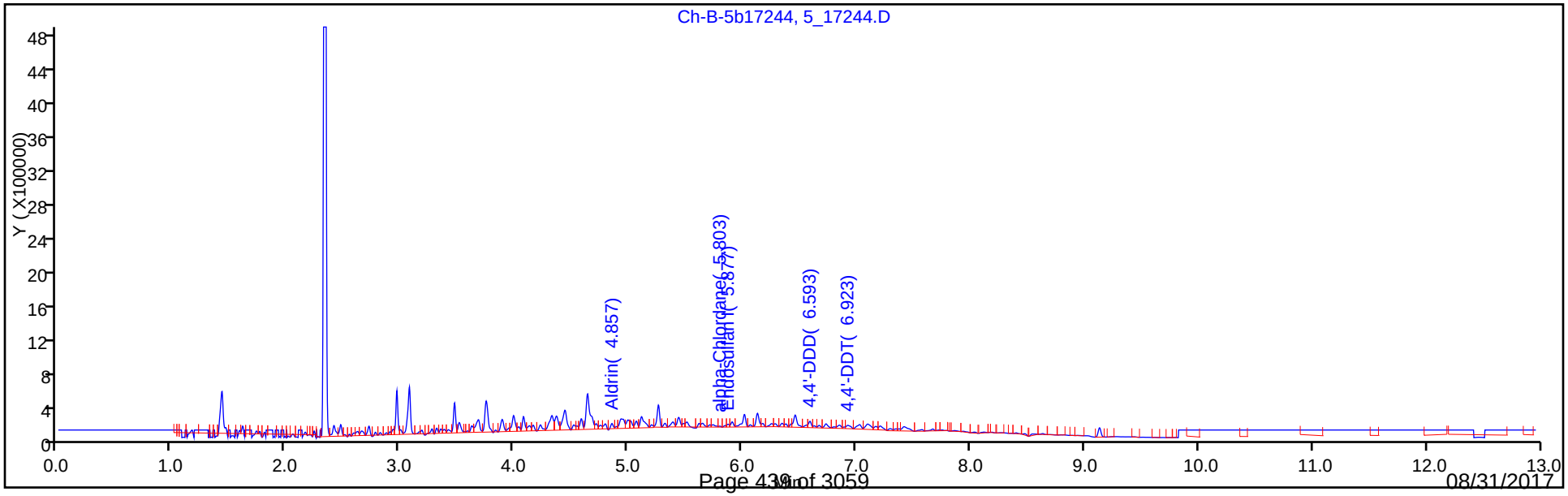
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D

Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3	Worklist Smp#:	27
Client ID:	NS-LDP-003-GW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

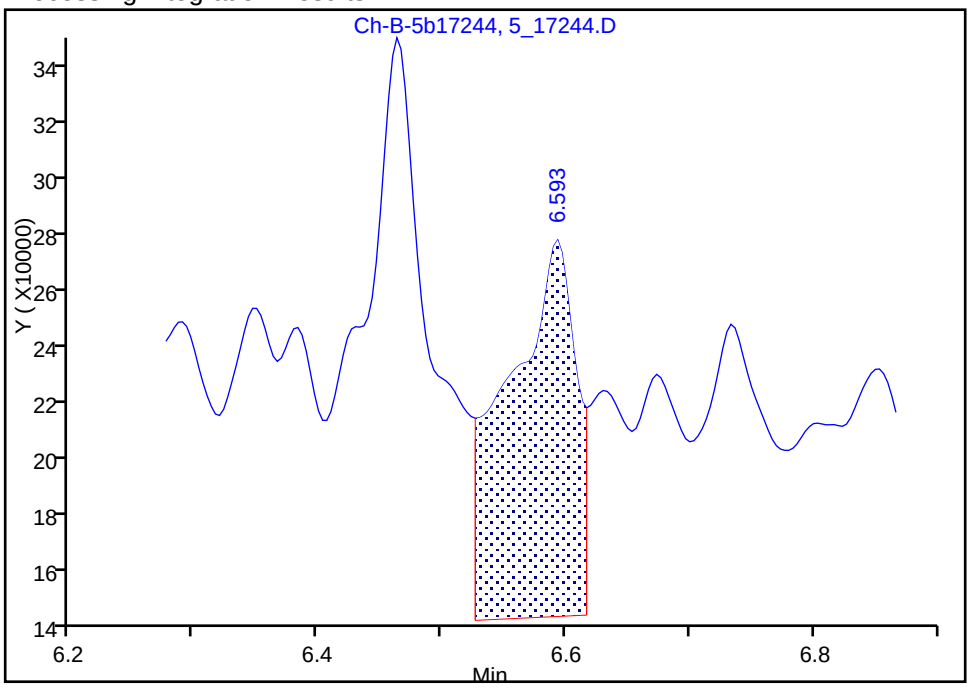
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

22 4,4'-DDD, CAS: 72-54-8

Signal: 2

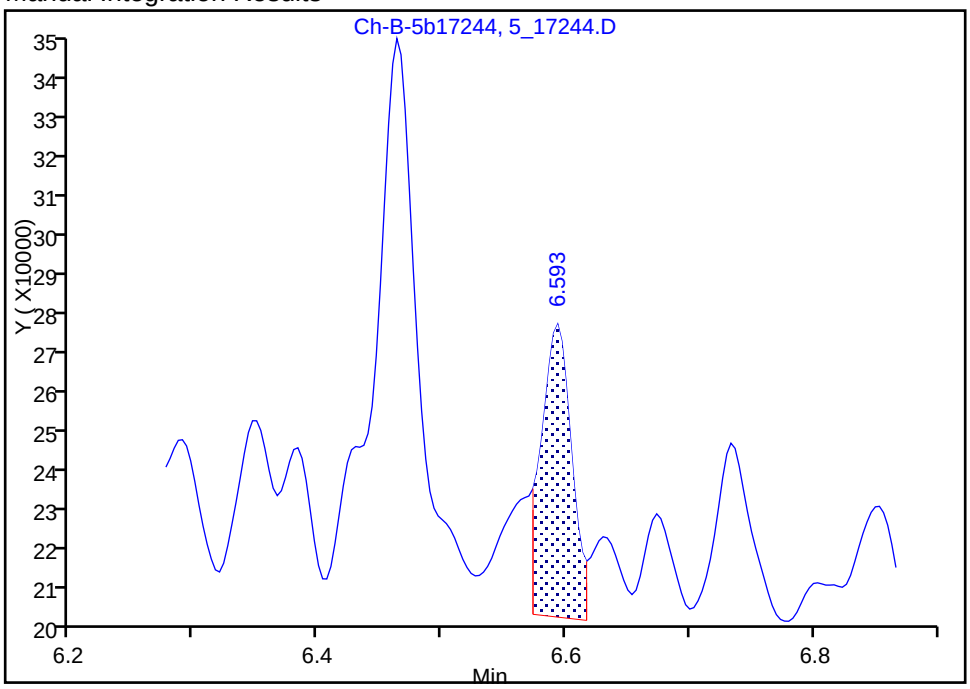
Processing Integration Results

RT: 6.59
Area: 505840
Amount: 0.012166
Amount Units: ng/ul



Manual Integration Results

RT: 6.59
Area: 122024
Amount: 0.003730
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:59:27

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

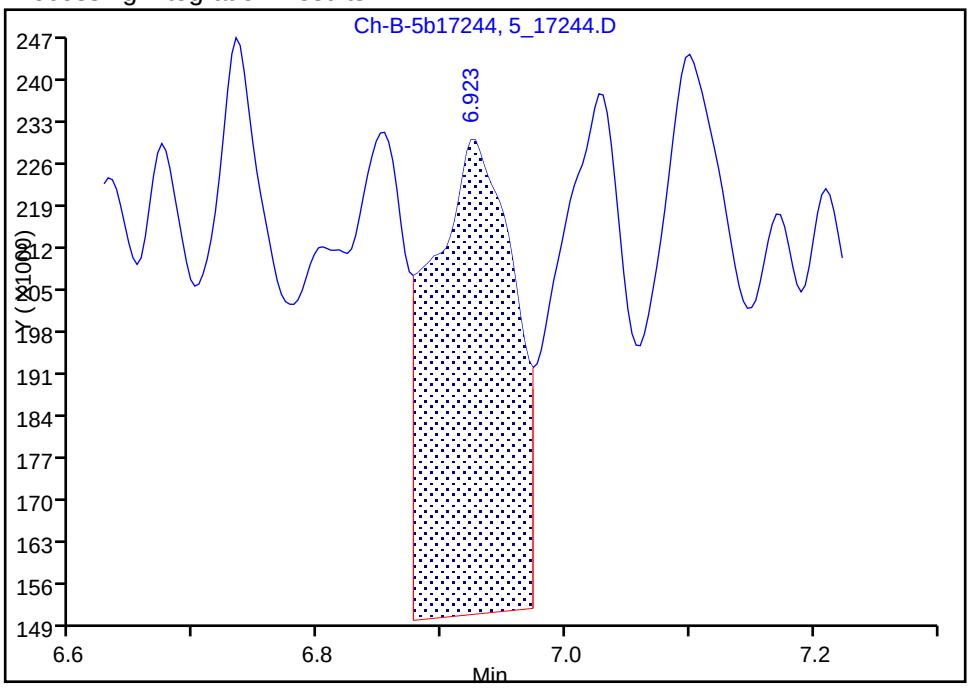
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

26 4,4'-DDT, CAS: 50-29-3

Signal: 2

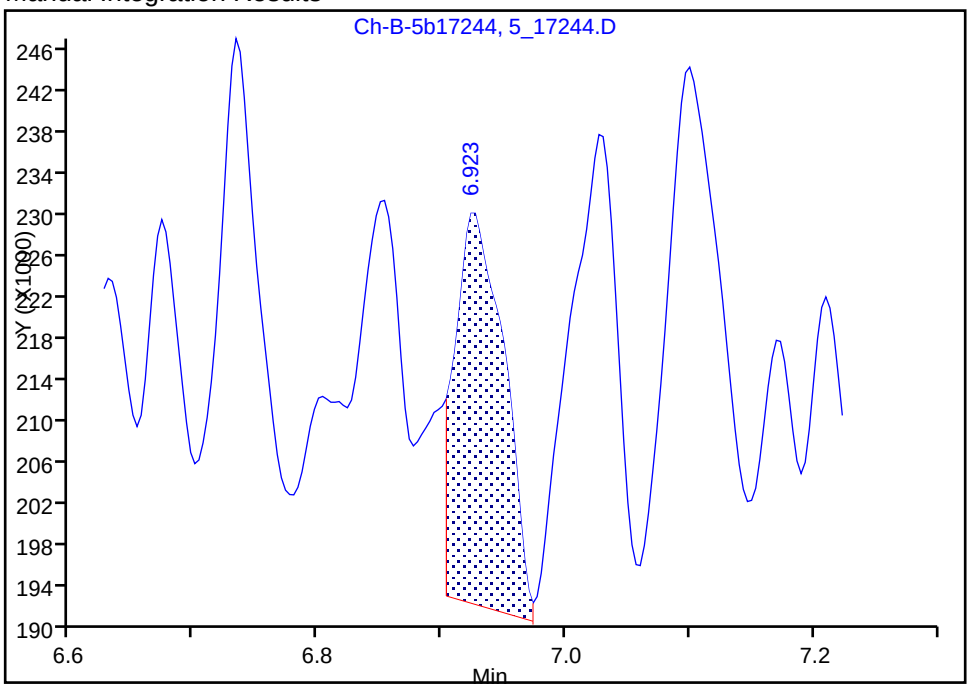
Processing Integration Results

RT: 6.92
Area: 368892
Amount: 0.009562
Amount Units: ng/ul



Manual Integration Results

RT: 6.92
Area: 104311
Amount: 0.003874
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:59:27
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

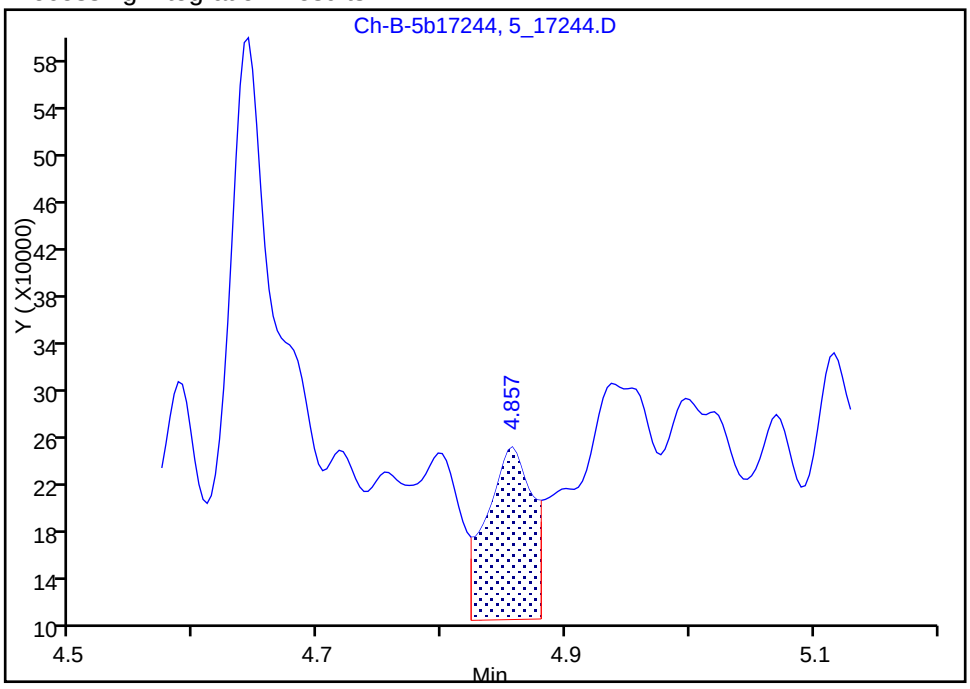
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

10 Aldrin, CAS: 309-00-2

Signal: 2

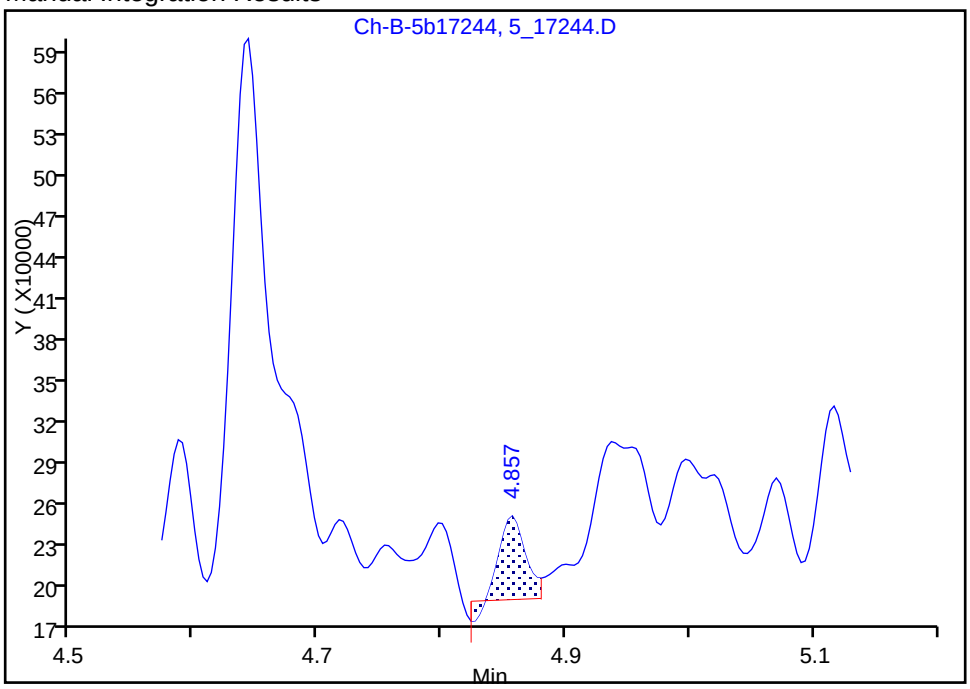
Processing Integration Results

RT: 4.86
Area: 364671
Amount: 0.006660
Amount Units: ng/ul



Manual Integration Results

RT: 4.86
Area: 80676
Amount: 0.002152
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:21

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

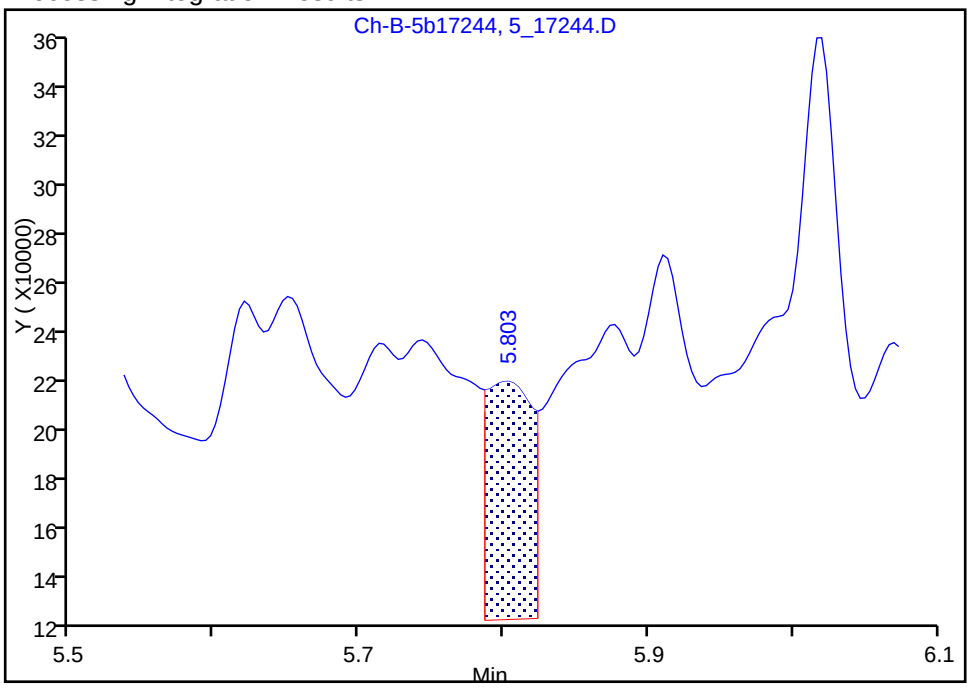
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

15 alpha-Chlordane, CAS: 5103-71-9

Signal: 2

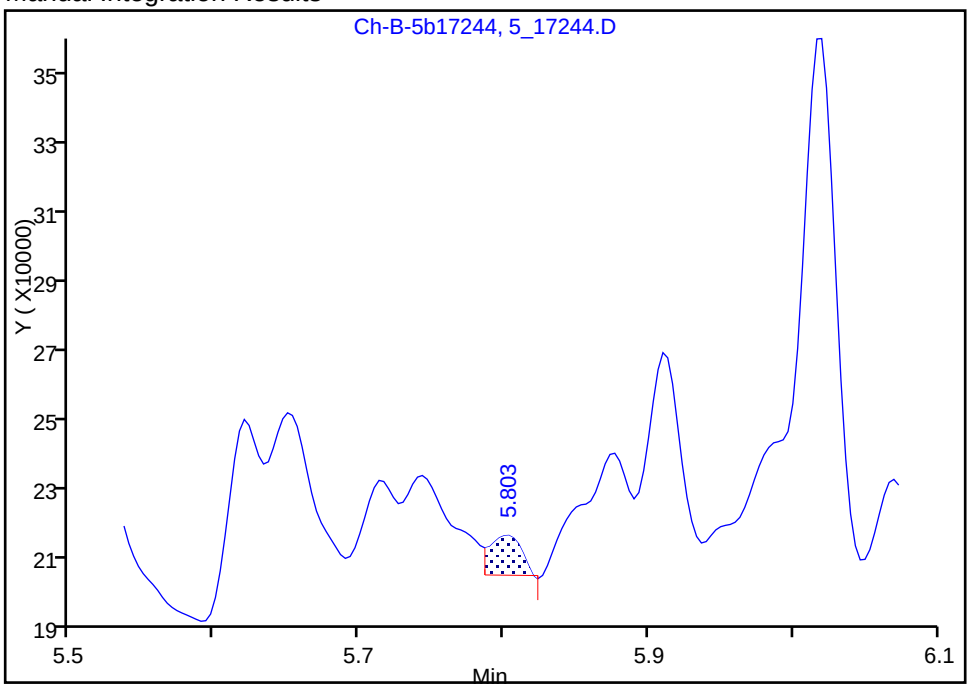
Processing Integration Results

RT: 5.80
Area: 196108
Amount: 0.004263
Amount Units: ng/ul



Manual Integration Results

RT: 5.80
Area: 15718
Amount: 0.001067
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:59:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

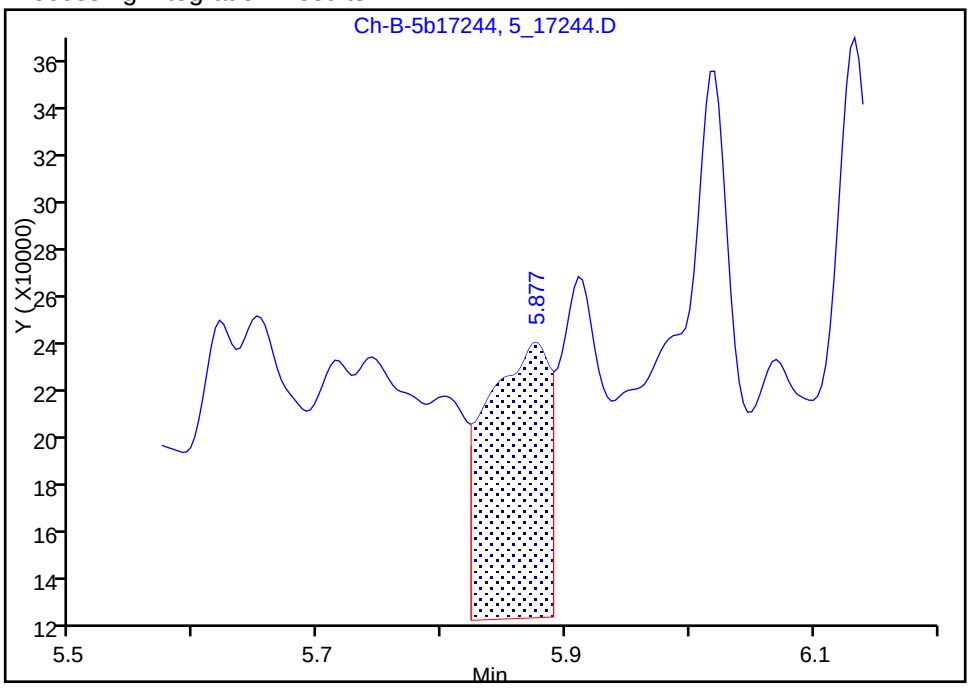
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

18 Endosulfan I, CAS: 959-98-8

Signal: 2

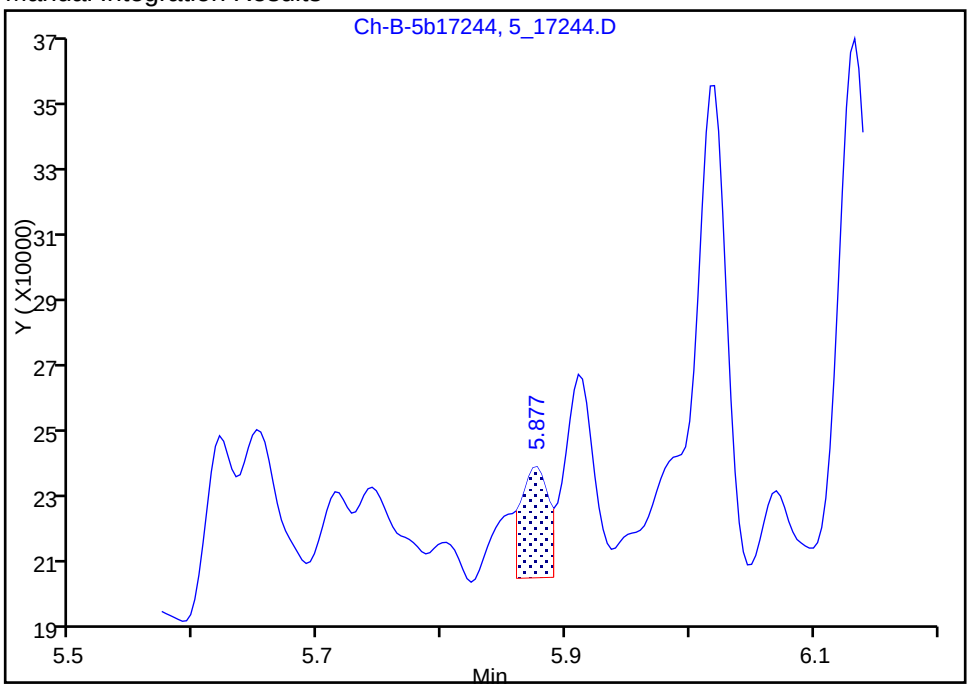
Processing Integration Results

RT: 5.88
Area: 398413
Amount: 0.008806
Amount Units: ng/ul



Manual Integration Results

RT: 5.88
Area: 48316
Amount: 0.001456
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:59:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

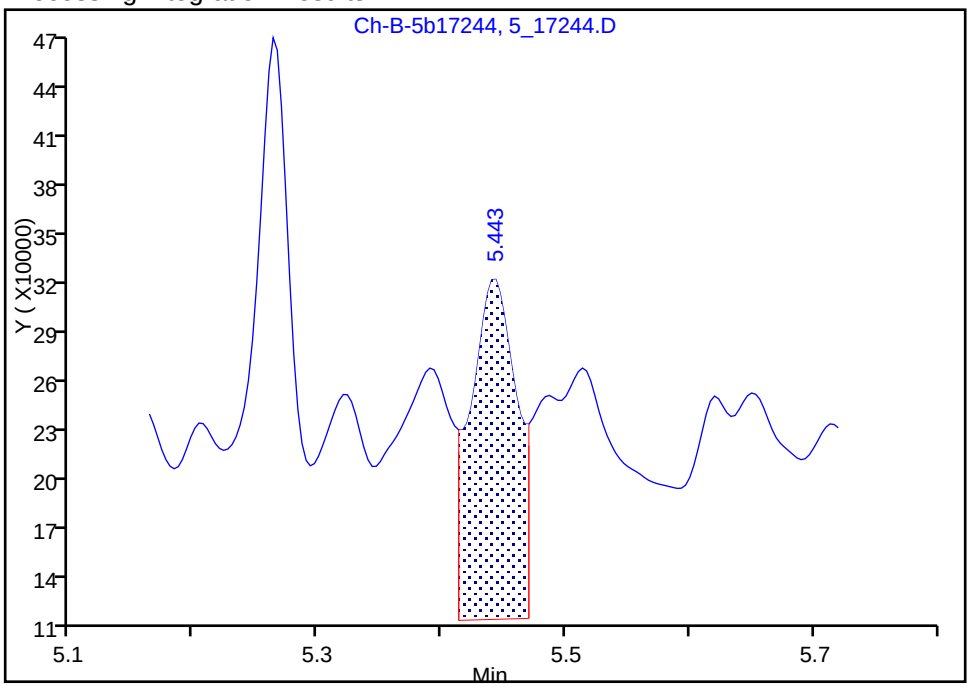
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

13 Heptachlor epoxide, CAS: 1024-57-3

Signal: 2

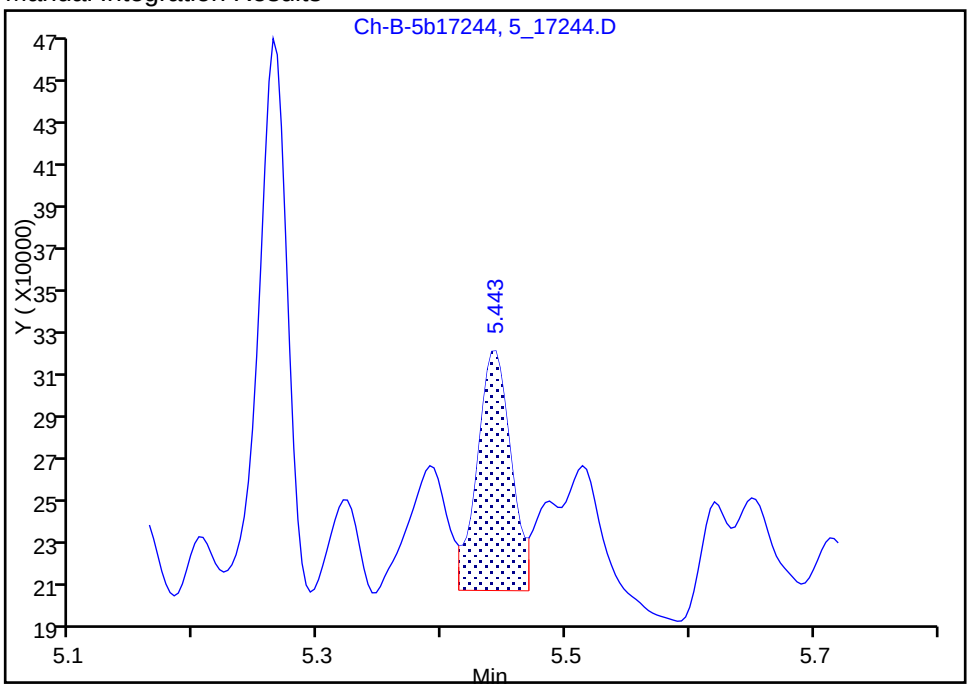
Processing Integration Results

RT: 5.44
Area: 516390
Amount: 0.010212
Amount Units: ng/ul



Manual Integration Results

RT: 5.44
Area: 206651
Amount: 0.004368
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:59:10

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

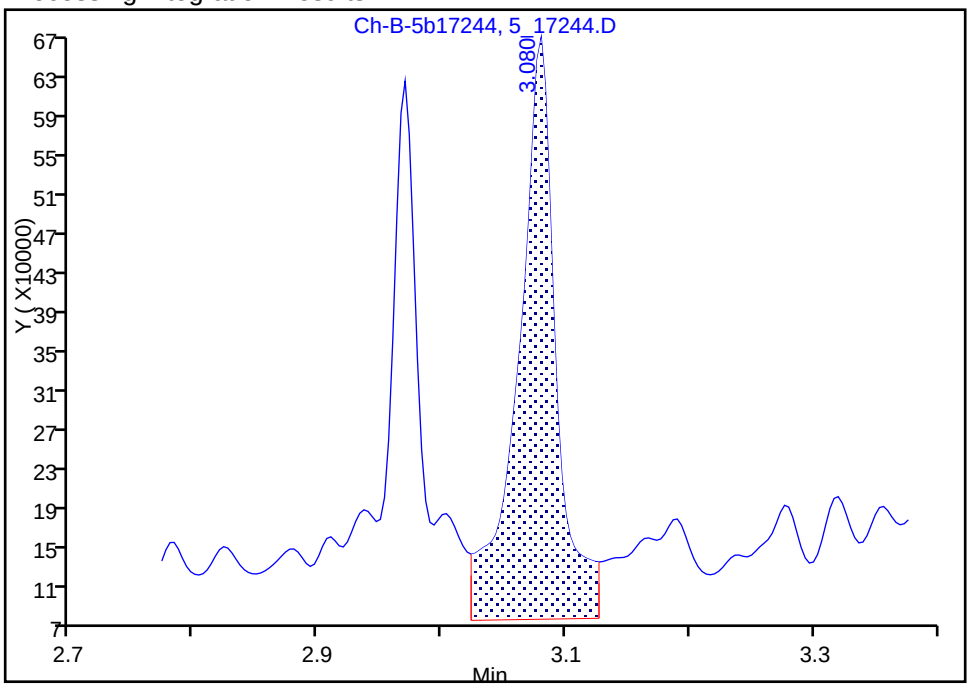
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

$ 1 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

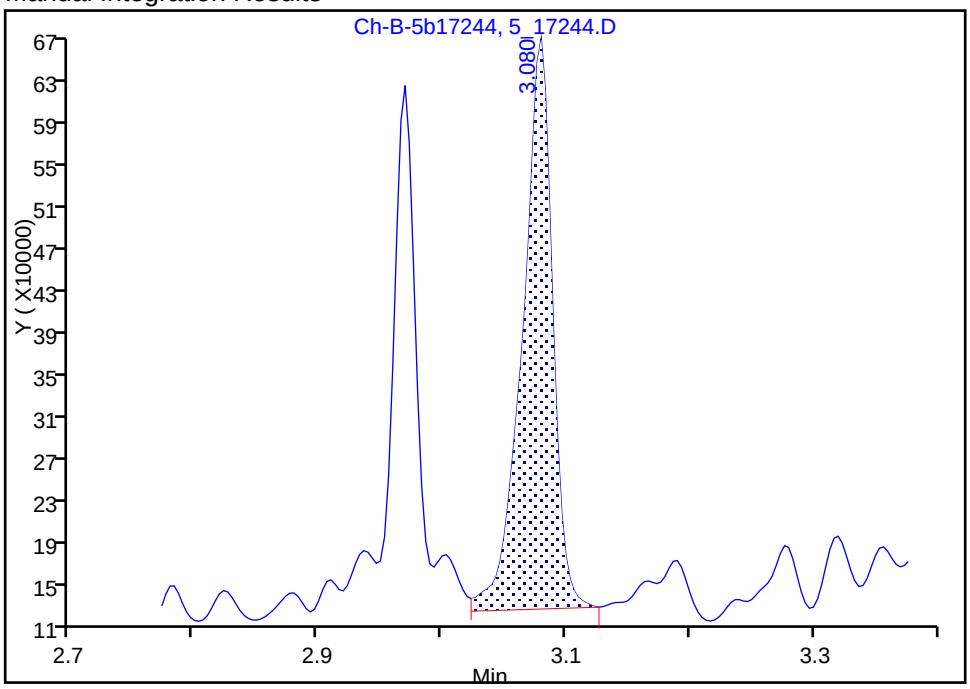
Processing Integration Results

RT: 3.08
Area: 1264974
Amount: 0.026556
Amount Units: ng/ul



Manual Integration Results

RT: 3.08
Area: 911140
Amount: 0.019573
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:13

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

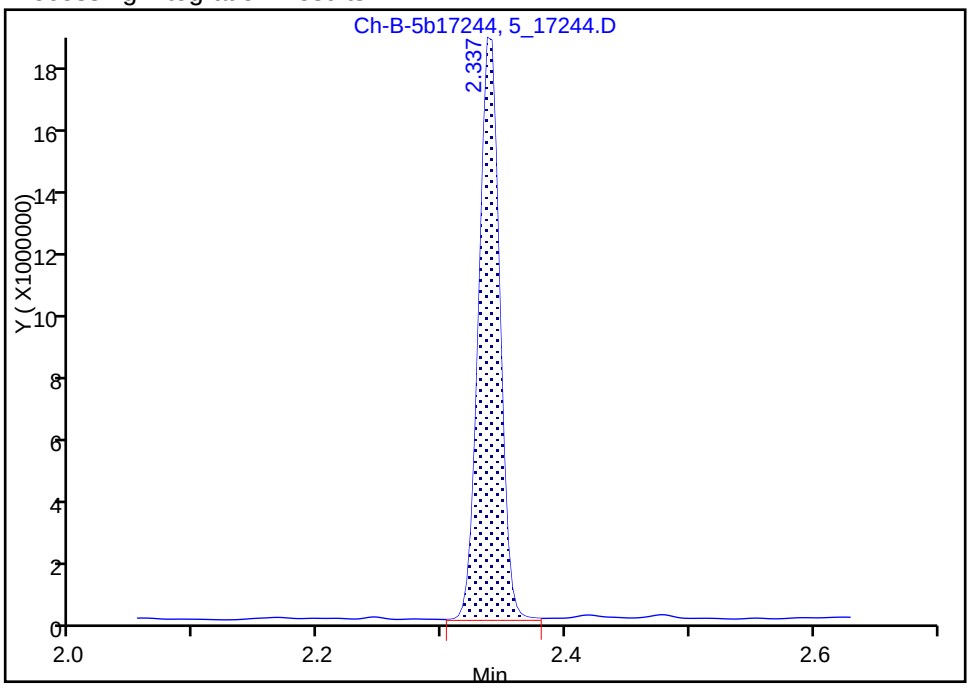
Data File:	\\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17244.D				
Injection Date:	25-Aug-2017 21:14:25	Instrument ID:	HP6890-5		
Lims ID:	480-123215-A-3-A	Lab Sample ID:	480-123215-3		
Client ID:	NS-LDP-003-GW				
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

* 44 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

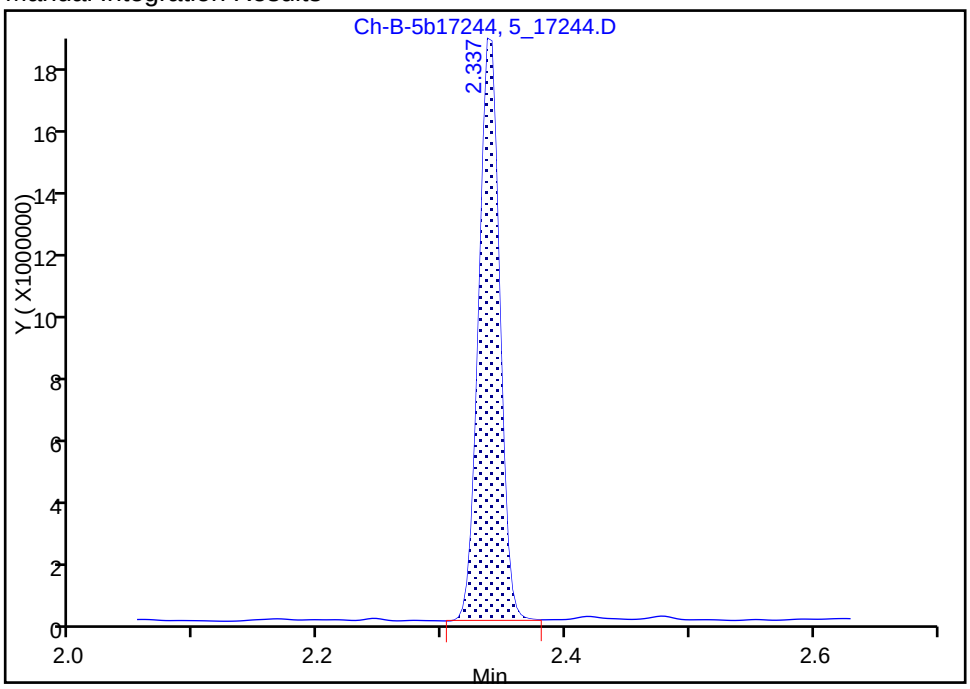
Processing Integration Results

RT: 2.34
Area: 22012603
Amount: 0.500000
Amount Units: ng/ul



Manual Integration Results

RT: 2.34
Area: 21806030
Amount: 0.500000
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:57:13

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 361742

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2017 18:21 Calibration End Date: 06/12/2017 19:39 Calibration ID: 30702

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-361742/14	5_15023.D
Level 2	STD4 480-361742/13	5_15022.D
Level 3	STD3 480-361742/12	5_15021.D
Level 4	STD2 480-361742/11	5_15020.D
Level 5	STD1 480-361742/10	5_15019.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0424	0.0436	0.0543	0.0541	0.0516	Lin1	-0.001	0.0534							0.9990		0.9900
Toxaphene Peak 2	0.0577	0.0606	0.0780	0.0801	0.0747	Lin1	-0.001	0.0780							0.9980		0.9900
Toxaphene Peak 3	0.0287	0.0324	0.0393	0.0403	0.0379	Lin1	-0.001	0.0395							0.9990		0.9900
Toxaphene Peak 4	0.0272	0.0300	0.0418	0.0436	0.0413	Lin1	-0.001	0.0430							0.9990		0.9900
Toxaphene Peak 5	0.0259	0.0294	0.0399	0.0400	0.0376	Lin1	-0.001	0.0394							0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 361742

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2017 18:21 Calibration End Date: 06/12/2017 19:39 Calibration ID: 30702

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-361742/14	5_15023.D
Level 2	STD4 480-361742/13	5_15022.D
Level 3	STD3 480-361742/12	5_15021.D
Level 4	STD2 480-361742/11	5_15020.D
Level 5	STD1 480-361742/10	5_15019.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Lin1	210082	431577	2426528	5003070	7575809	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 2	BNB	Lin1	286416	599342	3485831	7403521	10965204	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 3	BNB	Lin1	142403	320516	1758946	3724458	5571277	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 4	BNB	Lin1	135151	296449	1870363	4028941	6063442	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 5	BNB	Lin1	128559	291185	1782552	3693409	5524290	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15019.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 12-Jun-2017 18:21:02 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub22

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 13-Jun-2017 09:18:14 Calib Date: 12-Jun-2017 19:39:22
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: NearyM Date: 13-Jun-2017 09:08:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.157	2.153	0.004	48960194	0.5000	0.5000	
2	2.380	2.380	0.000	23187178	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							M
1	5.843	5.843	0.000	7575809	1.50	1.46	
1	5.967	5.970	-0.003	10965204	1.50	1.45	
1	6.200	6.200	0.000	5571277	1.50	1.46	
1	6.537	6.537	0.000	6063442	1.50	1.46	
1	6.633	6.633	0.000	5524290	1.50	1.45	
		Average of Peak Amounts =				1.46	
2	6.217	6.217	0.000	1458704	1.50	1.47	M
2	6.777	6.777	0.000	2017196	1.50	1.45	M
2	6.877	6.877	0.000	3897224	1.50	1.46	M
2	7.143	7.143	0.000	2483762	1.50	1.46	M
2	7.680	7.680	0.000	1951993	1.50	1.46	M
		Average of Peak Amounts =				1.46	
						RPD = 0.30	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.5ng_00011	Amount Added: 1.00	Units: mL	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

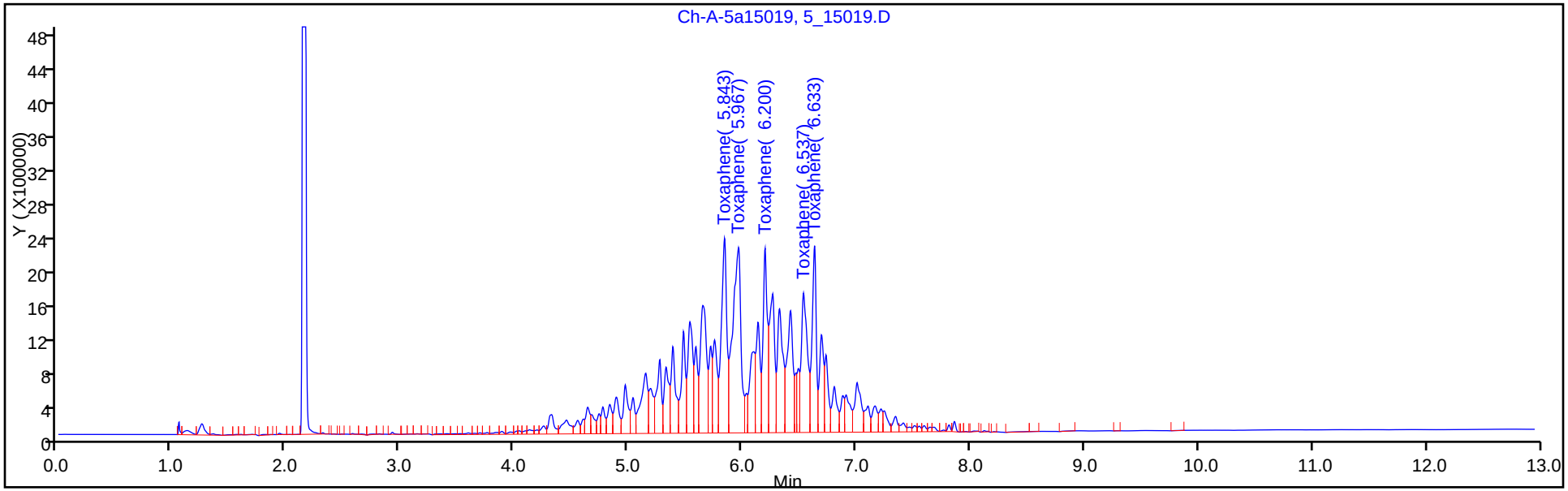
Report Date: 13-Jun-2017 09:18:15 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

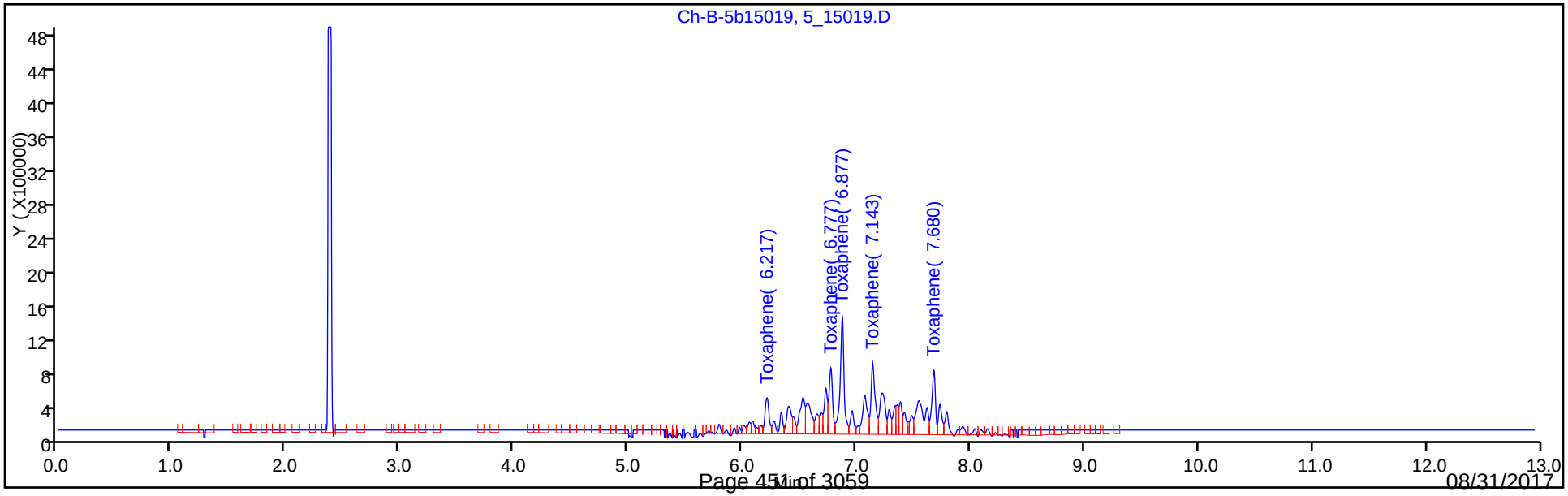
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15019.D

Injection Date:	12-Jun-2017 18:21:02	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15020.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 12-Jun-2017 18:40:33 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub22

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 13-Jun-2017 09:18:18 Calib Date: 12-Jun-2017 19:39:22
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.160	2.153	0.007	46206504	0.5000	0.5000	
2	2.383	2.380	0.003	21954647	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							
1	5.847	5.843	0.004	5003070	1.00	1.03	
1	5.970	5.970	0.000	7403521	1.00	1.04	
1	6.203	6.200	0.003	3724458	1.00	1.04	
1	6.540	6.537	0.003	4028941	1.00	1.04	
1	6.637	6.633	0.004	3693409	1.00	1.03	
		Average of Peak Amounts =				1.03	
2	6.220	6.217	0.003	956810	1.00	1.02	
2	6.780	6.777	0.003	1350685	1.00	1.03	
2	6.880	6.877	0.003	2610323	1.00	1.03	
2	7.147	7.143	0.004	1664885	1.00	1.04	
2	7.683	7.680	0.003	1299804	1.00	1.03	
		Average of Peak Amounts =				1.03	
						RPD = 0.17	

Reagents:

Tox 1.0ng_00010	Amount Added: 1.00	Units: mL	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

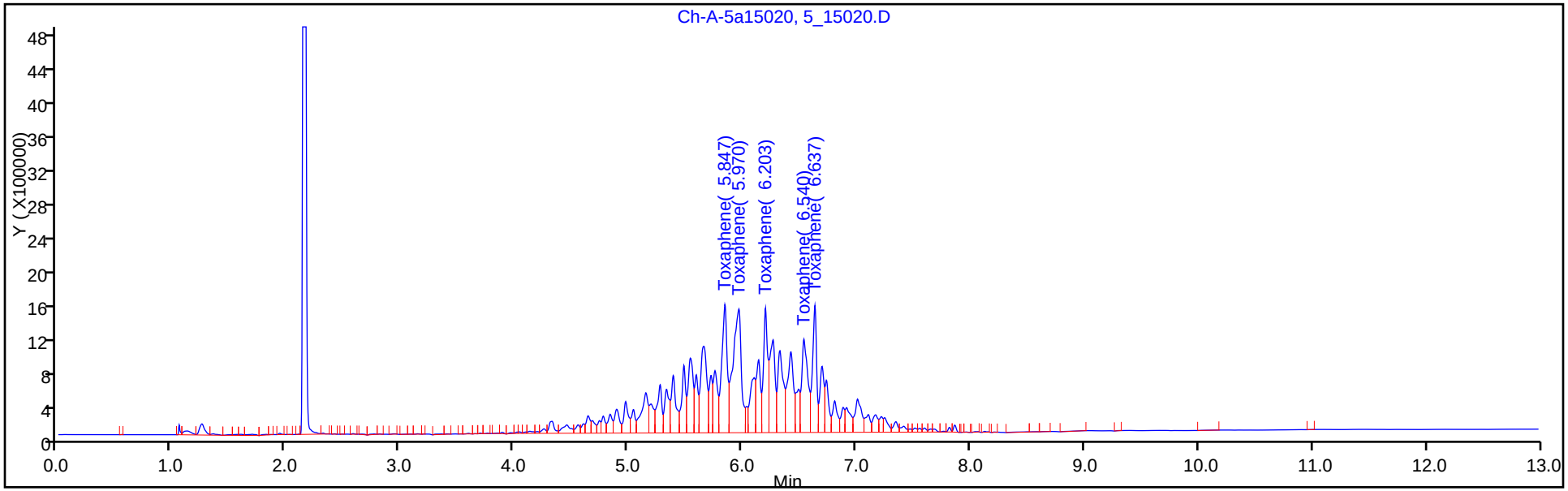
Report Date: 13-Jun-2017 09:18:18 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

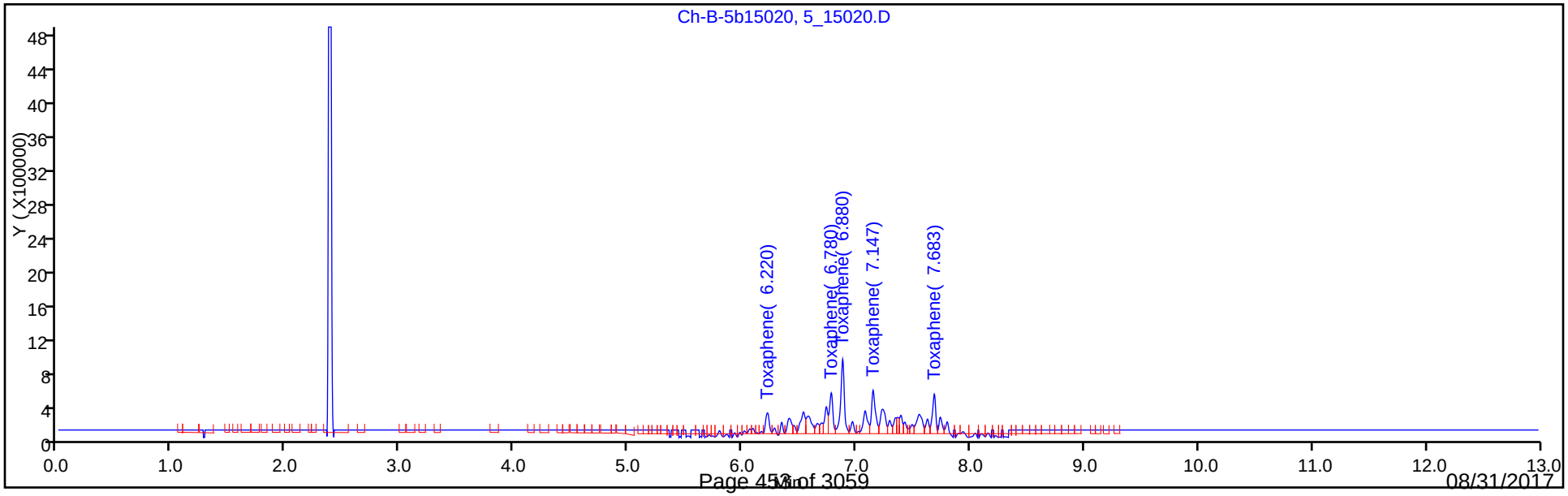
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15020.D

Injection Date:	12-Jun-2017 18:40:33	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15021.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 12-Jun-2017 19:00:17 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub22

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 13-Jun-2017 09:18:21 Calib Date: 12-Jun-2017 19:39:22
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.157	2.157	0.000	44709810	0.5000	0.5000	
2	2.380	2.380	0.000	21315761	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							
1	5.843	5.843	0.000	2426528	0.5000	0.5198	
1	5.970	5.970	0.000	3485831	0.5000	0.5144	
1	6.200	6.200	0.000	1758946	0.5000	0.5125	
1	6.537	6.537	0.000	1870363	0.5000	0.5080	
1	6.633	6.633	0.000	1782552	0.5000	0.5240	
		Average of Peak Amounts =				0.5157	
2	6.217	6.217	0.000	460780	0.5000	0.5159	
2	6.777	6.777	0.000	642186	0.5000	0.5143	
2	6.877	6.877	0.000	1235759	0.5000	0.5135	
2	7.143	7.143	0.000	765912	0.5000	0.5019	
2	7.680	7.680	0.000	609442	0.5000	0.5061	
		Average of Peak Amounts =				0.5103	
						RPD = 1.05	

Reagents:

TOX_CCV_0.5_00100 Amount Added: 1.00 Units: mL
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

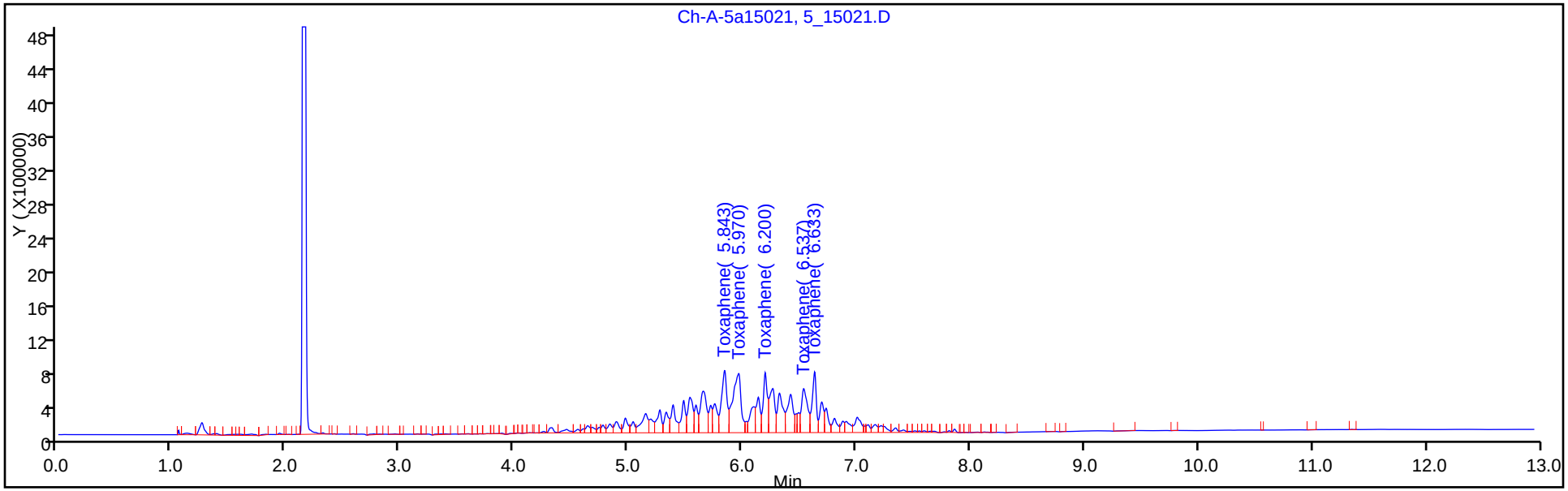
Report Date: 13-Jun-2017 09:18:21 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

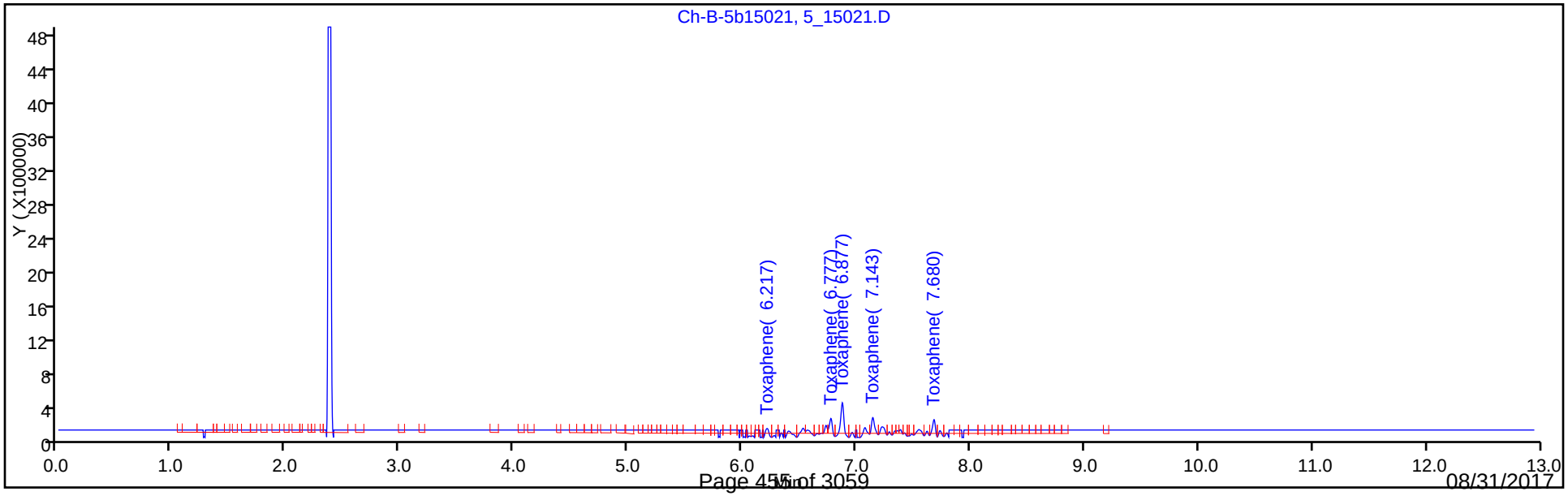
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15021.D

Injection Date:	12-Jun-2017 19:00:17	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15022.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 12-Jun-2017 19:19:50 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub22

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 13-Jun-2017 09:18:25 Calib Date: 12-Jun-2017 19:39:22
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: NearyM Date: 13-Jun-2017 09:09:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.153	2.157	-0.004	49452426	0.5000	0.5000	
2	2.380	2.380	0.000	23472275	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							M
1	5.840	5.843	-0.003	431577	0.1000	0.0934	
1	5.967	5.970	-0.003	599342	0.1000	0.0925	
1	6.197	6.200	-0.003	320516	0.1000	0.0961	
1	6.533	6.537	-0.004	296449	0.1000	0.0911	
1	6.633	6.633	0.000	291185	0.1000	0.0930	
		Average of Peak Amounts =				0.0932	
2	6.217	6.217	0.000	77165	0.1000	0.0937	M
2	6.777	6.777	0.000	117097	0.1000	0.0986	M
2	6.877	6.877	0.000	217575	0.1000	0.0971	M
2	7.143	7.143	0.000	140834	0.1000	0.0988	M
2	7.683	7.680	0.003	117863	0.1000	0.1009	M
		Average of Peak Amounts =				0.0978	
						RPD = 4.80	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.1ng_00013 Amount Added: 1.00 Units: mL
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

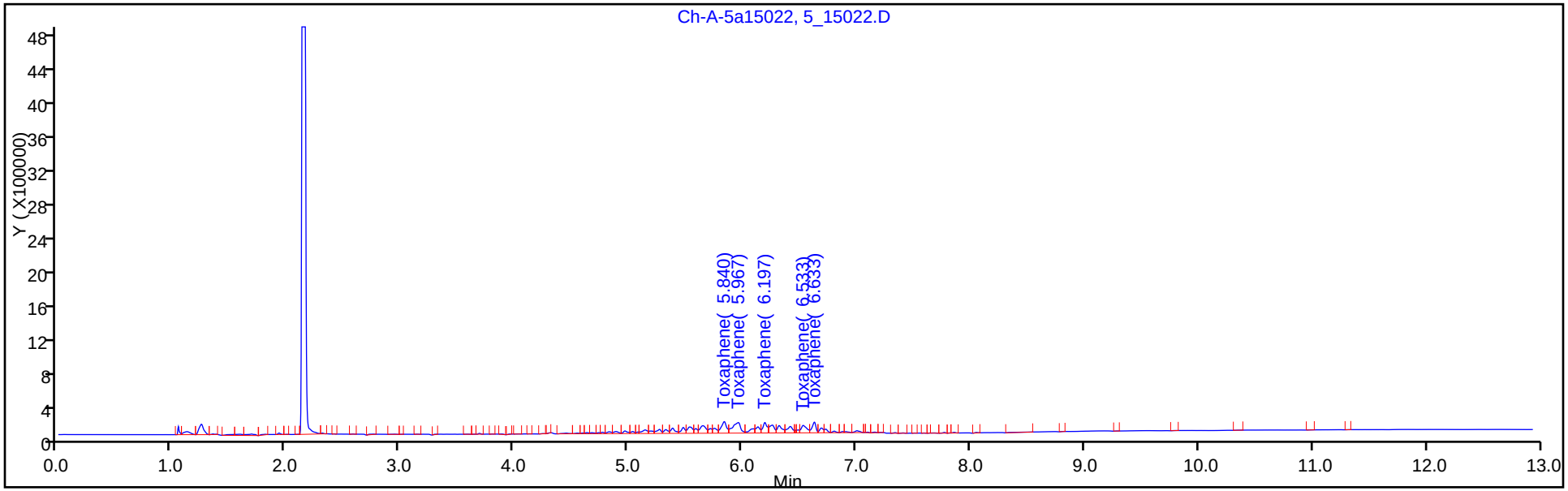
Report Date: 13-Jun-2017 09:18:25 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

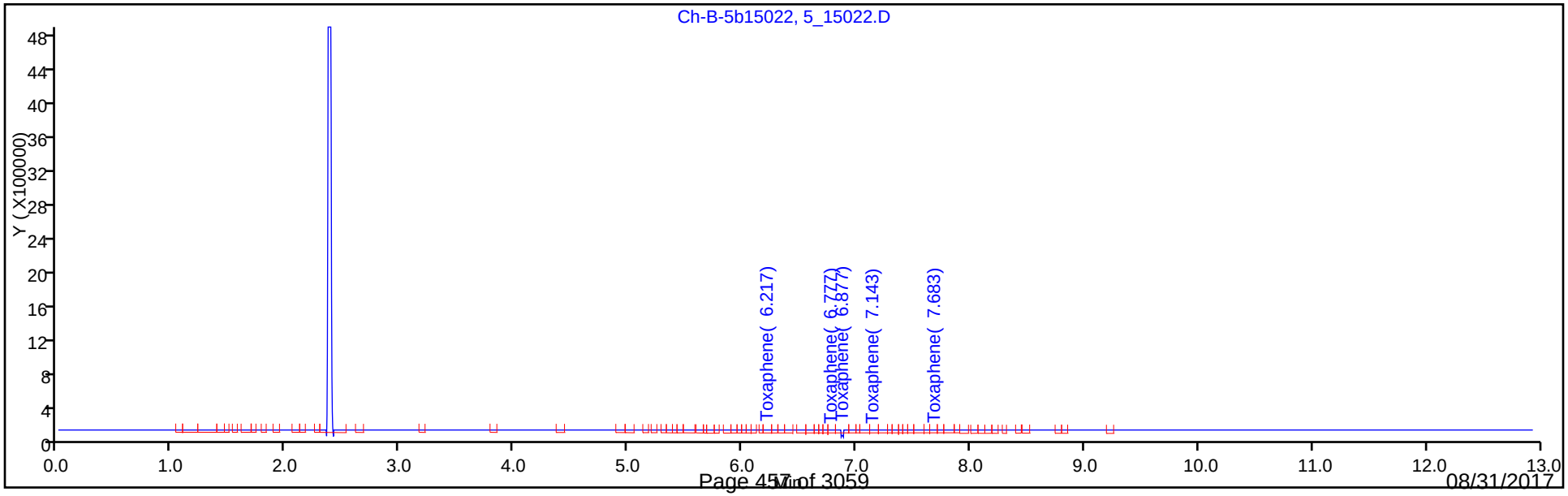
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15022.D

Injection Date:	12-Jun-2017 19:19:50	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 12-Jun-2017 19:39:22 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub22

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 13-Jun-2017 09:18:27 Calib Date: 12-Jun-2017 19:39:22
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.157	2.157	0.000	49597242	0.5000	0.5000	
2	2.380	2.380	0.000	23564311	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							
1	5.847	5.843	0.004	210082	0.0500	0.0514	
1	5.967	5.970	-0.003	286416	0.0500	0.0519	
1	6.203	6.200	0.003	142403	0.0500	0.0504	
1	6.540	6.537	0.003	135151	0.0500	0.0531	
1	6.637	6.633	0.004	128559	0.0500	0.0512	
		Average of Peak Amounts =				0.0516	
2	6.217	6.217	0.000	34292	0.0500	0.0515	
2	6.777	6.777	0.000	47091	0.0500	0.0491	
2	6.880	6.877	0.003	88355	0.0500	0.0499	
2	7.147	7.143	0.004	55558	0.0500	0.0498	
2	7.683	7.680	0.003	46544	0.0500	0.0486	
		Average of Peak Amounts =				0.0498	
						RPD = 3.58	

Reagents:

Tox 0.05ng_00012 Amount Added: 1.00 Units: mL
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

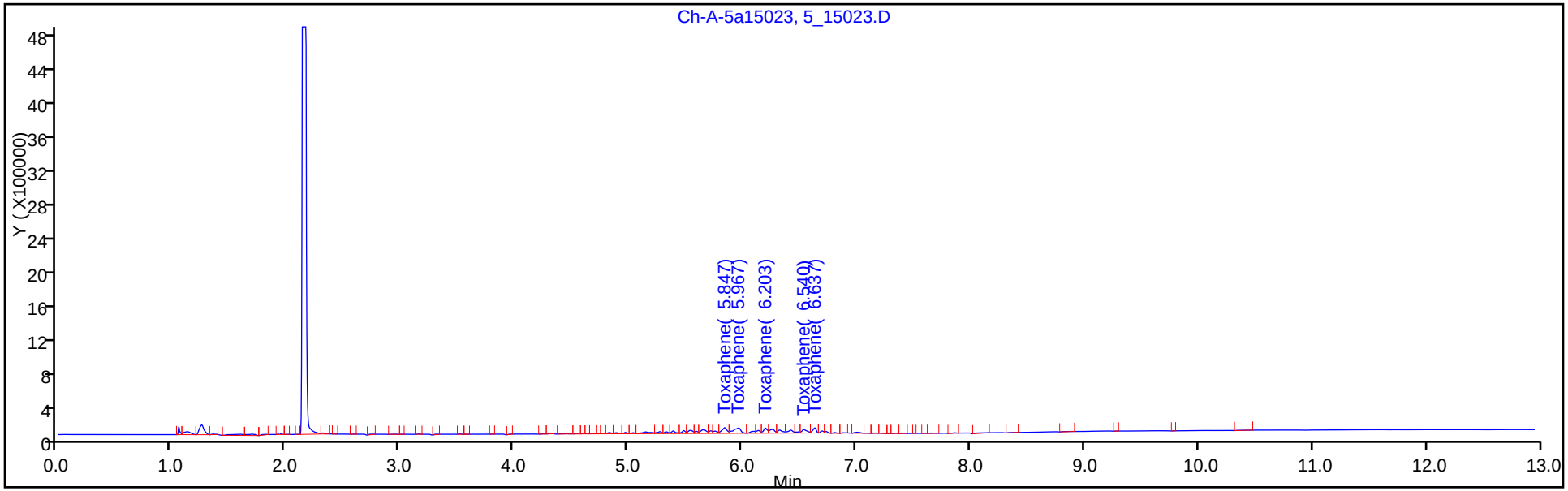
Report Date: 13-Jun-2017 09:18:27 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

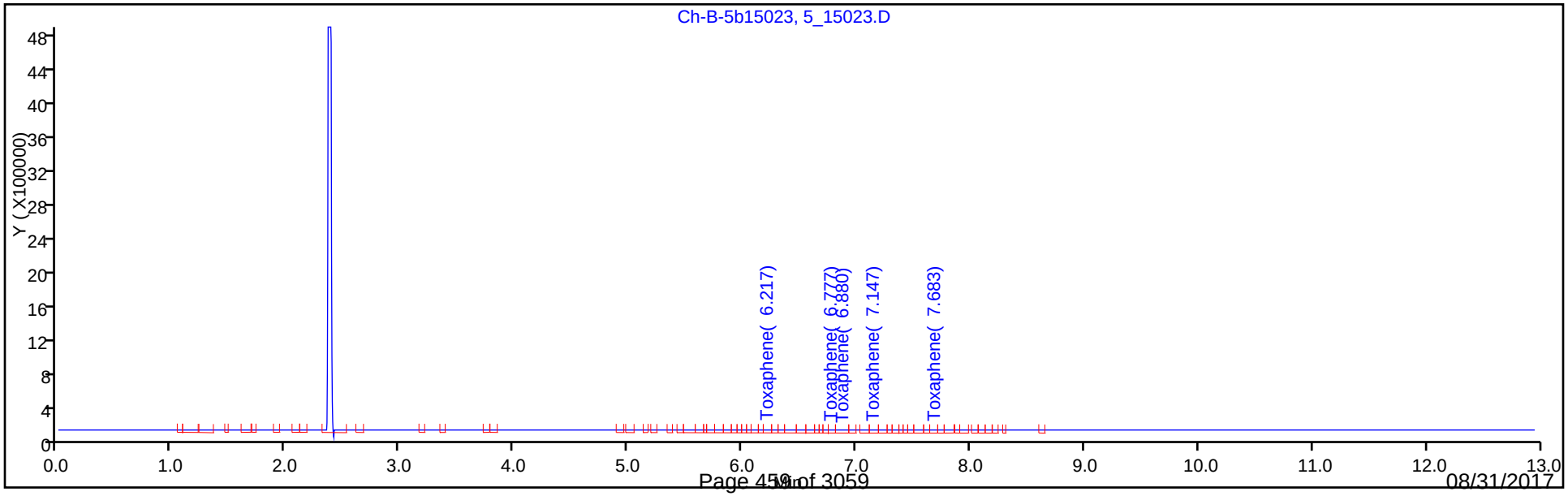
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Injection Date:	12-Jun-2017 19:39:22	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 361742

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2017 18:21 Calibration End Date: 06/12/2017 19:39 Calibration ID: 30703

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-361742/14	5_15023.D
Level 2	STD4 480-361742/13	5_15022.D
Level 3	STD3 480-361742/12	5_15021.D
Level 4	STD2 480-361742/11	5_15020.D
Level 5	STD1 480-361742/10	5_15019.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toxaphene Peak 1	0.0146	0.0164	0.0216	0.0218	0.0210	Lin1	0	0.0217							0.9990		0.9900
Toxaphene Peak 2	0.0200	0.0249	0.0301	0.0308	0.0290	Lin1	0	0.0302							0.9990		0.9900
Toxaphene Peak 3	0.0375	0.0463	0.0580	0.0594	0.0560	Lin1	-0.001	0.0585							0.9990		0.9900
Toxaphene Peak 4	0.0236	0.0300	0.0359	0.0379	0.0357	Lin1	-0.001	0.0371							0.9990		0.9900
Toxaphene Peak 5	0.0198	0.0251	0.0286	0.0296	0.0281	Lin1	0	0.0291							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 361742

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/12/2017 18:21 Calibration End Date: 06/12/2017 19:39 Calibration ID: 30703

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-361742/14	5_15023.D
Level 2	STD4 480-361742/13	5_15022.D
Level 3	STD3 480-361742/12	5_15021.D
Level 4	STD2 480-361742/11	5_15020.D
Level 5	STD1 480-361742/10	5_15019.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	BNB	Lin1	34292	77165	460780	956810	1458704	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 2	BNB	Lin1	47091	117097	642186	1350685	2017196	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 3	BNB	Lin1	88355	217575	1235759	2610323	3897224	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 4	BNB	Lin1	55558	140834	765912	1664885	2483762	0.0500	0.100	0.500	1.00	1.50
Toxaphene Peak 5	BNB	Lin1	46544	117863	609442	1299804	1951993	0.0500	0.100	0.500	1.00	1.50

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15019.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 12-Jun-2017 18:21:02 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub22

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 13-Jun-2017 09:18:14 Calib Date: 12-Jun-2017 19:39:22
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: NearyM Date: 13-Jun-2017 09:08:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.157	2.153	0.004	48960194	0.5000	0.5000	
2	2.380	2.380	0.000	23187178	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							M
1	5.843	5.843	0.000	7575809	1.50	1.46	
1	5.967	5.970	-0.003	10965204	1.50	1.45	
1	6.200	6.200	0.000	5571277	1.50	1.46	
1	6.537	6.537	0.000	6063442	1.50	1.46	
1	6.633	6.633	0.000	5524290	1.50	1.45	
		Average of Peak Amounts =				1.46	
2	6.217	6.217	0.000	1458704	1.50	1.47	M
2	6.777	6.777	0.000	2017196	1.50	1.45	M
2	6.877	6.877	0.000	3897224	1.50	1.46	M
2	7.143	7.143	0.000	2483762	1.50	1.46	M
2	7.680	7.680	0.000	1951993	1.50	1.46	M
		Average of Peak Amounts =				1.46	
						RPD = 0.30	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 1.5ng_00011	Amount Added: 1.00	Units: mL	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

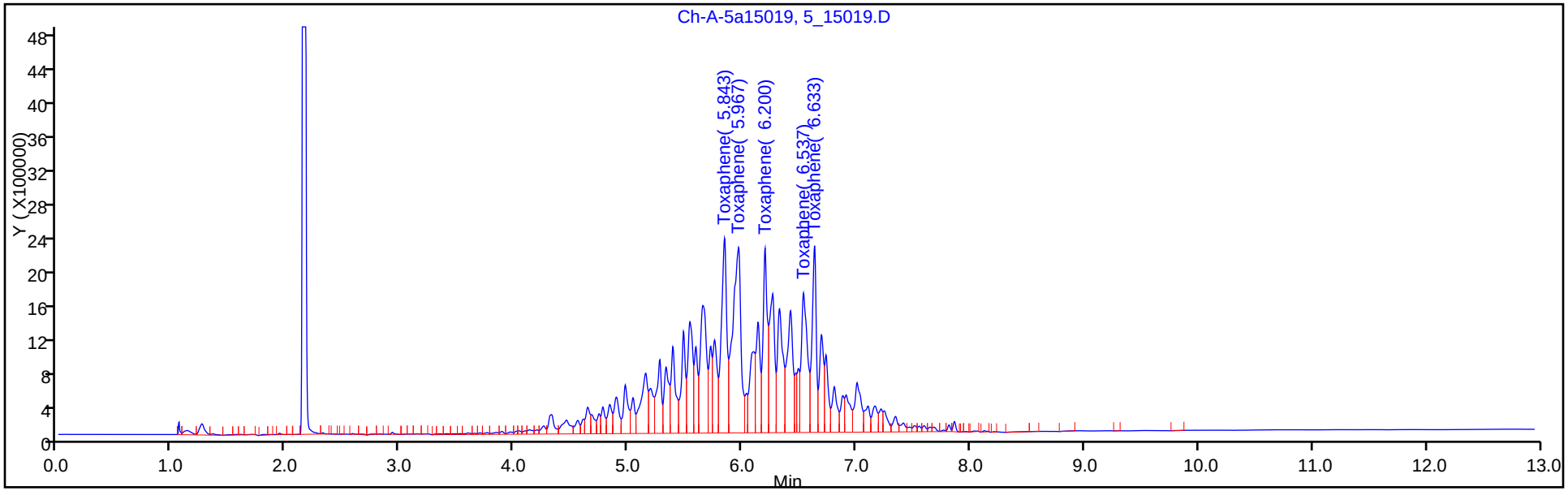
Report Date: 13-Jun-2017 09:18:15 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

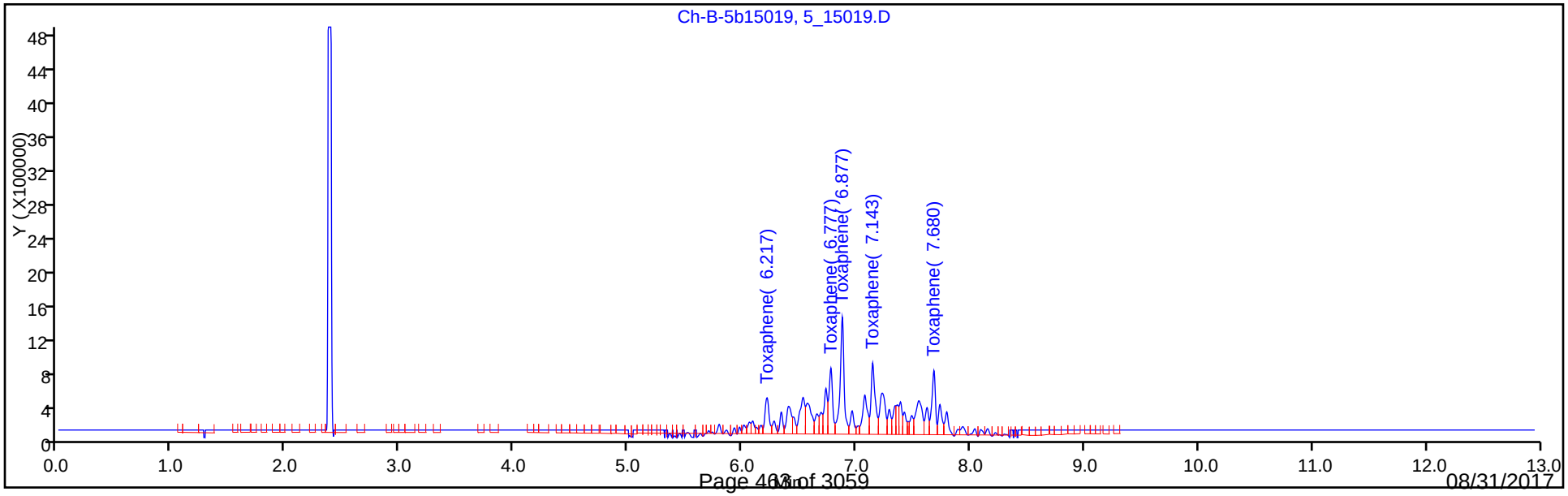
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15019.D

Injection Date:	12-Jun-2017 18:21:02	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Report Date: 13-Jun-2017 09:18:15 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15019.D

Injection Date: 12-Jun-2017 18:21:02 Instrument ID: HP6890-5

Lims ID: std1

Client ID:

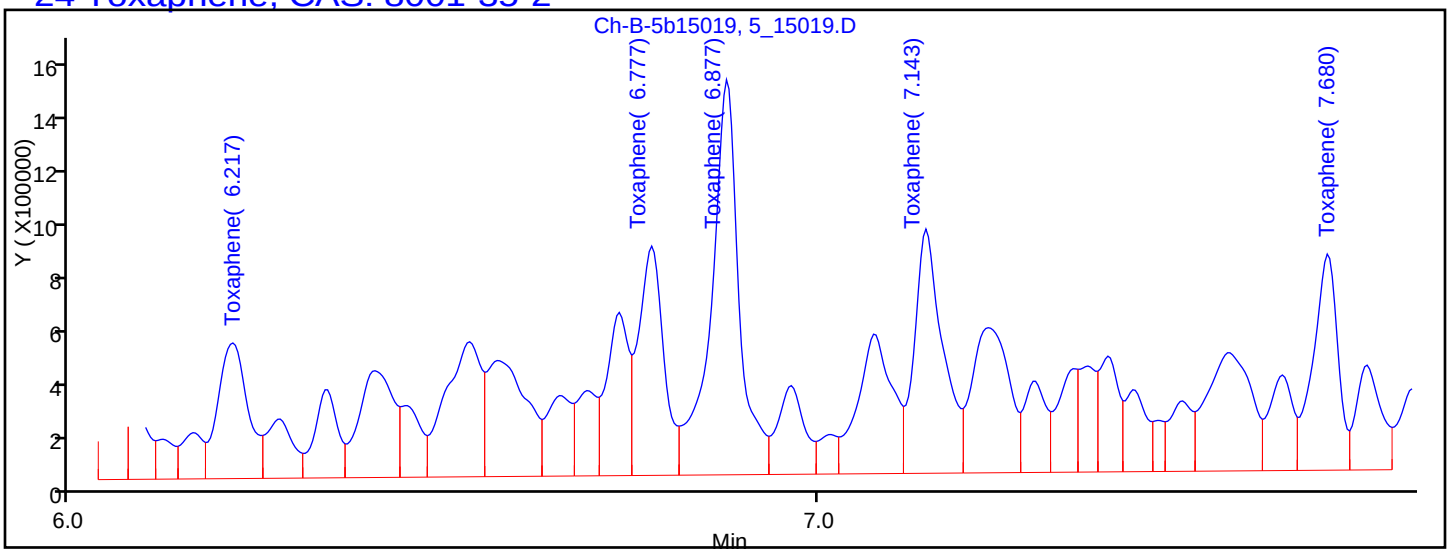
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: IS-8081 6890-5 Limit Group: GC - 8081B IS ICAL

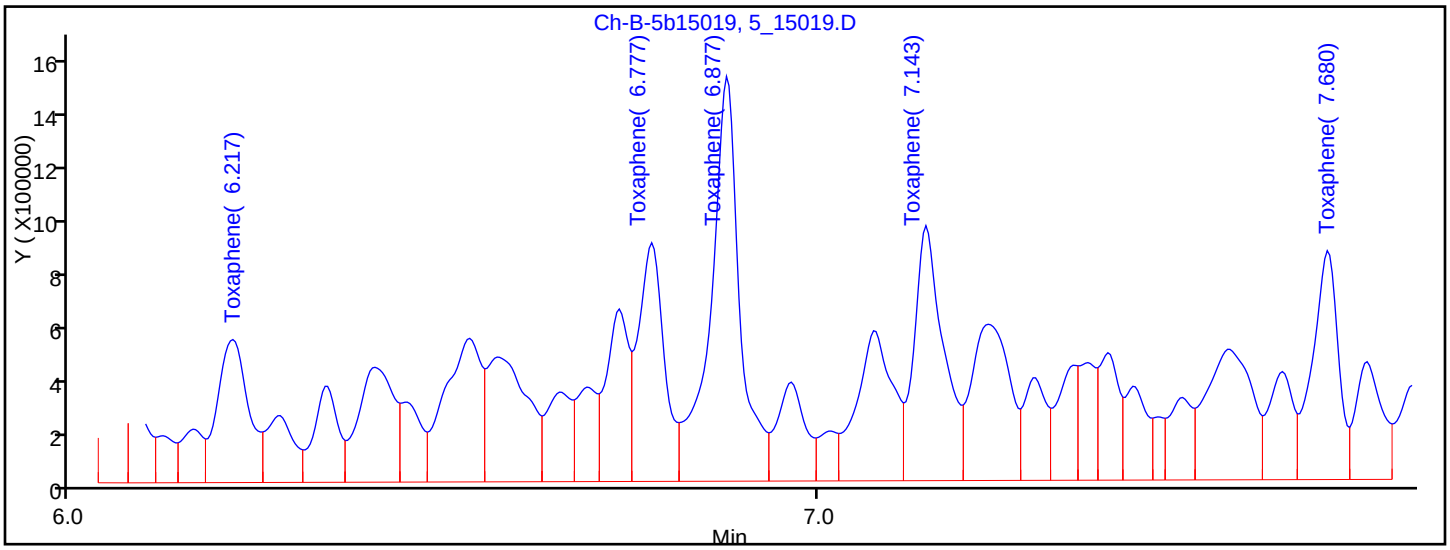
Column: Detector Ch-B-6b58132

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.217	Response = 1337706
6.777	Response = 1889635
6.877	Response = 3647021
7.143	Response = 2299627
7.680	Response = 1762619



Manual Integration Results

6.217	Response = 1458704	M
6.777	Response = 2017196	M
6.877	Response = 3897224	M
7.143	Response = 2483762	M
7.680	Response = 1951993	M

Reviewer: NearyM, 13-Jun-2017 09:07:59

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15020.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 12-Jun-2017 18:40:33 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub22

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 13-Jun-2017 09:18:18 Calib Date: 12-Jun-2017 19:39:22
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.160	2.153	0.007	46206504	0.5000	0.5000	
2	2.383	2.380	0.003	21954647	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							
1	5.847	5.843	0.004	5003070	1.00	1.03	
1	5.970	5.970	0.000	7403521	1.00	1.04	
1	6.203	6.200	0.003	3724458	1.00	1.04	
1	6.540	6.537	0.003	4028941	1.00	1.04	
1	6.637	6.633	0.004	3693409	1.00	1.03	
		Average of Peak Amounts =				1.03	
2	6.220	6.217	0.003	956810	1.00	1.02	
2	6.780	6.777	0.003	1350685	1.00	1.03	
2	6.880	6.877	0.003	2610323	1.00	1.03	
2	7.147	7.143	0.004	1664885	1.00	1.04	
2	7.683	7.680	0.003	1299804	1.00	1.03	
		Average of Peak Amounts =				1.03	
						RPD = 0.17	

Reagents:

Tox 1.0ng_00010	Amount Added: 1.00	Units: mL	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

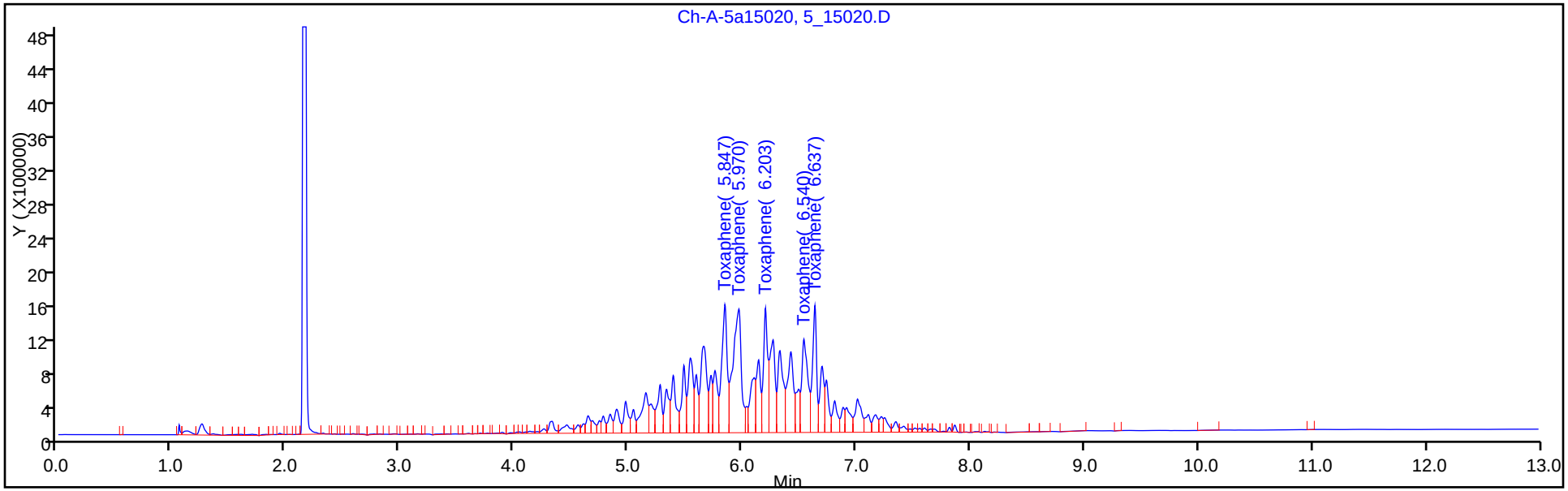
Report Date: 13-Jun-2017 09:18:18 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

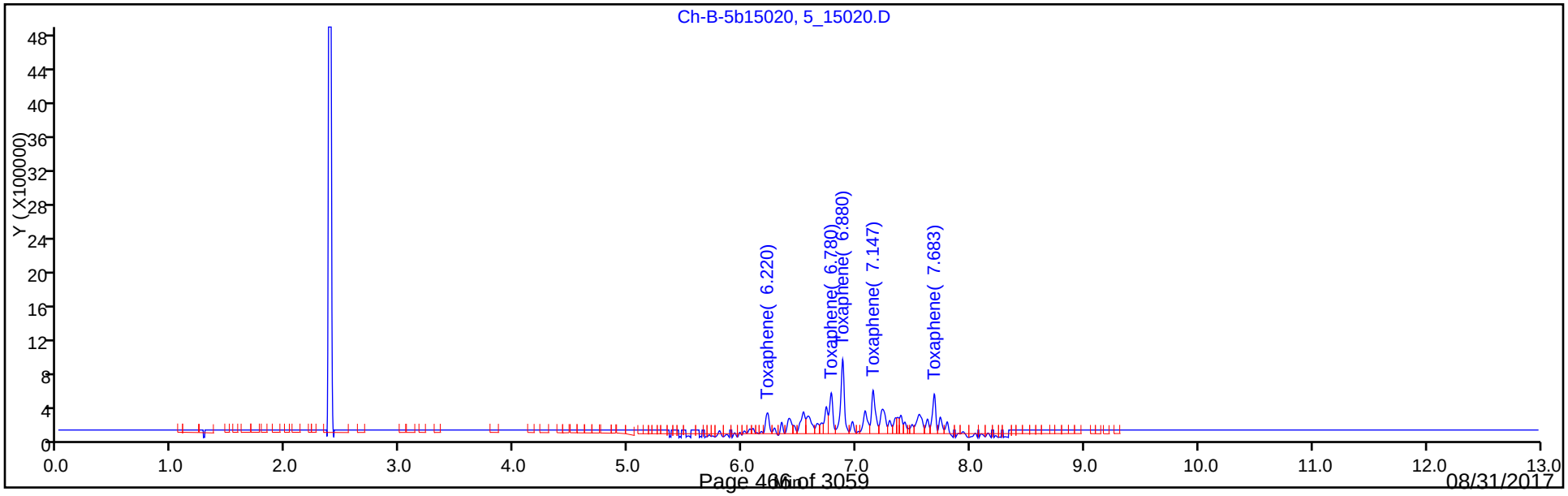
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15020.D

Injection Date:	12-Jun-2017 18:40:33	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15021.D
Lims ID: std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 12-Jun-2017 19:00:17 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub22

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 13-Jun-2017 09:18:21 Calib Date: 12-Jun-2017 19:39:22
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.157	2.157	0.000	44709810	0.5000	0.5000	
2	2.380	2.380	0.000	21315761	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							
1	5.843	5.843	0.000	2426528	0.5000	0.5198	
1	5.970	5.970	0.000	3485831	0.5000	0.5144	
1	6.200	6.200	0.000	1758946	0.5000	0.5125	
1	6.537	6.537	0.000	1870363	0.5000	0.5080	
1	6.633	6.633	0.000	1782552	0.5000	0.5240	
		Average of Peak Amounts =				0.5157	
2	6.217	6.217	0.000	460780	0.5000	0.5159	
2	6.777	6.777	0.000	642186	0.5000	0.5143	
2	6.877	6.877	0.000	1235759	0.5000	0.5135	
2	7.143	7.143	0.000	765912	0.5000	0.5019	
2	7.680	7.680	0.000	609442	0.5000	0.5061	
		Average of Peak Amounts =				0.5103	
						RPD = 1.05	

Reagents:

TOX_CCV_0.5_00100	Amount Added: 1.00	Units: mL	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

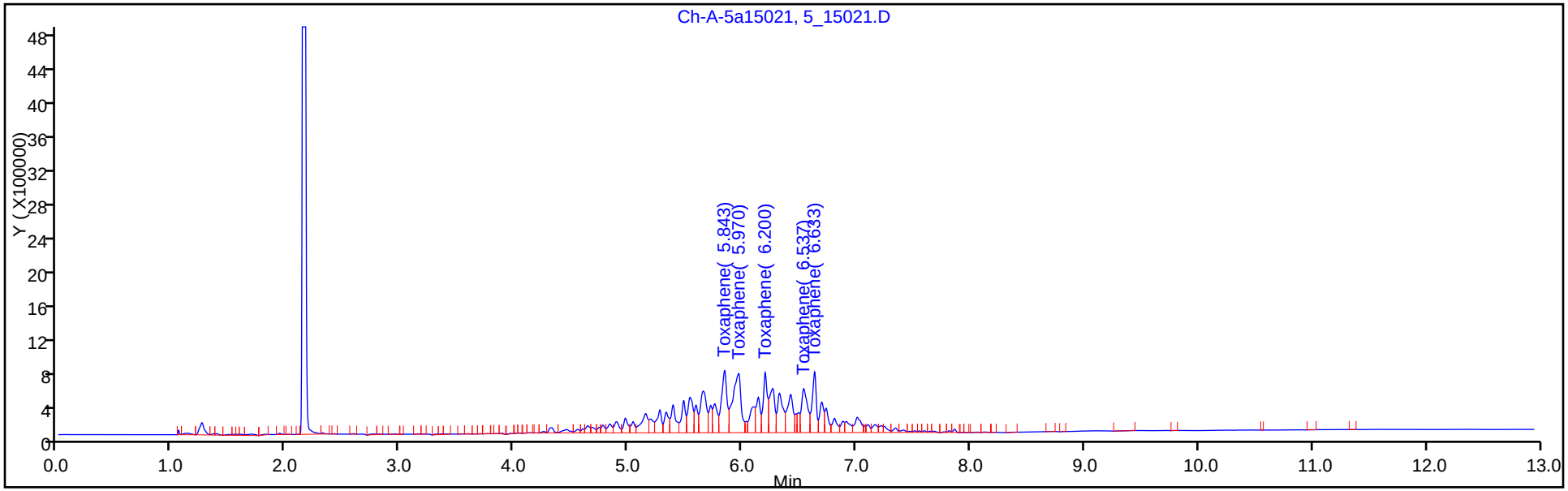
Report Date: 13-Jun-2017 09:18:22 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

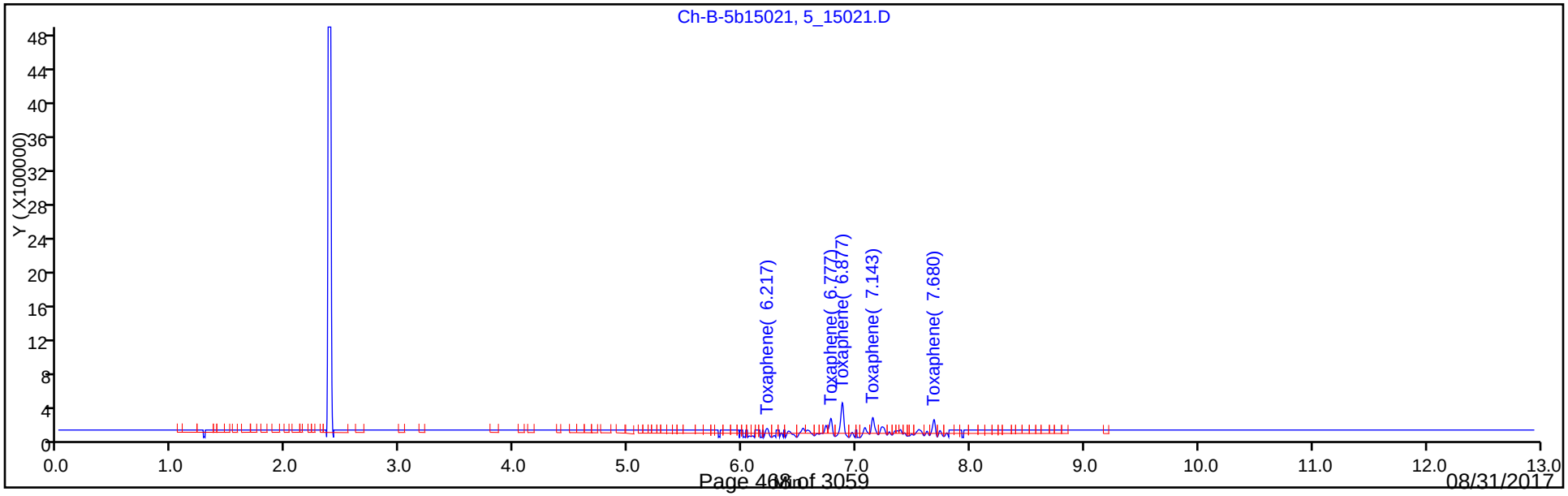
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15021.D

Injection Date:	12-Jun-2017 19:00:17	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15022.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 12-Jun-2017 19:19:50 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub22

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 13-Jun-2017 09:18:25 Calib Date: 12-Jun-2017 19:39:22
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

First Level Reviewer: NearyM Date: 13-Jun-2017 09:09:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.153	2.157	-0.004	49452426	0.5000	0.5000	
2	2.380	2.380	0.000	23472275	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							M
1	5.840	5.843	-0.003	431577	0.1000	0.0934	
1	5.967	5.970	-0.003	599342	0.1000	0.0925	
1	6.197	6.200	-0.003	320516	0.1000	0.0961	
1	6.533	6.537	-0.004	296449	0.1000	0.0911	
1	6.633	6.633	0.000	291185	0.1000	0.0930	
		Average of Peak Amounts =				0.0932	
2	6.217	6.217	0.000	77165	0.1000	0.0937	M
2	6.777	6.777	0.000	117097	0.1000	0.0986	M
2	6.877	6.877	0.000	217575	0.1000	0.0971	M
2	7.143	7.143	0.000	140834	0.1000	0.0988	M
2	7.683	7.680	0.003	117863	0.1000	0.1009	M
		Average of Peak Amounts =				0.0978	
						RPD = 4.80	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

Tox 0.1ng_00013	Amount Added: 1.00	Units: mL	
1-Br2nit 50ng_00008	Amount Added: 10.00	Units: uL	Run Reagent

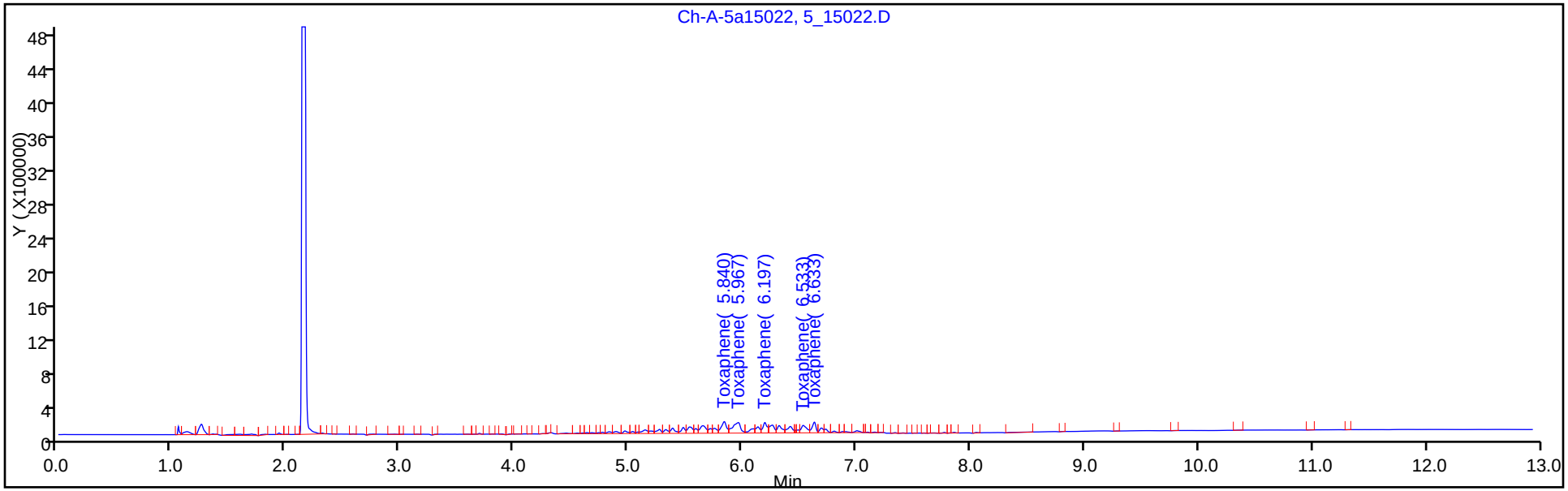
Report Date: 13-Jun-2017 09:18:25 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

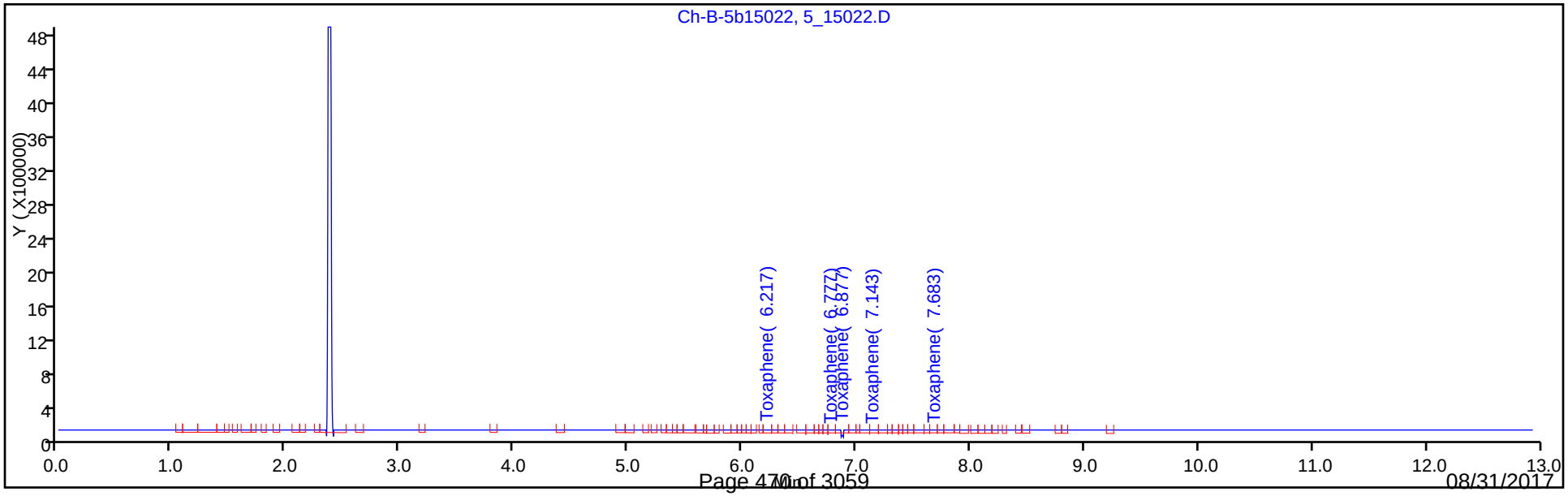
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15022.D

Injection Date:	12-Jun-2017 19:19:50	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



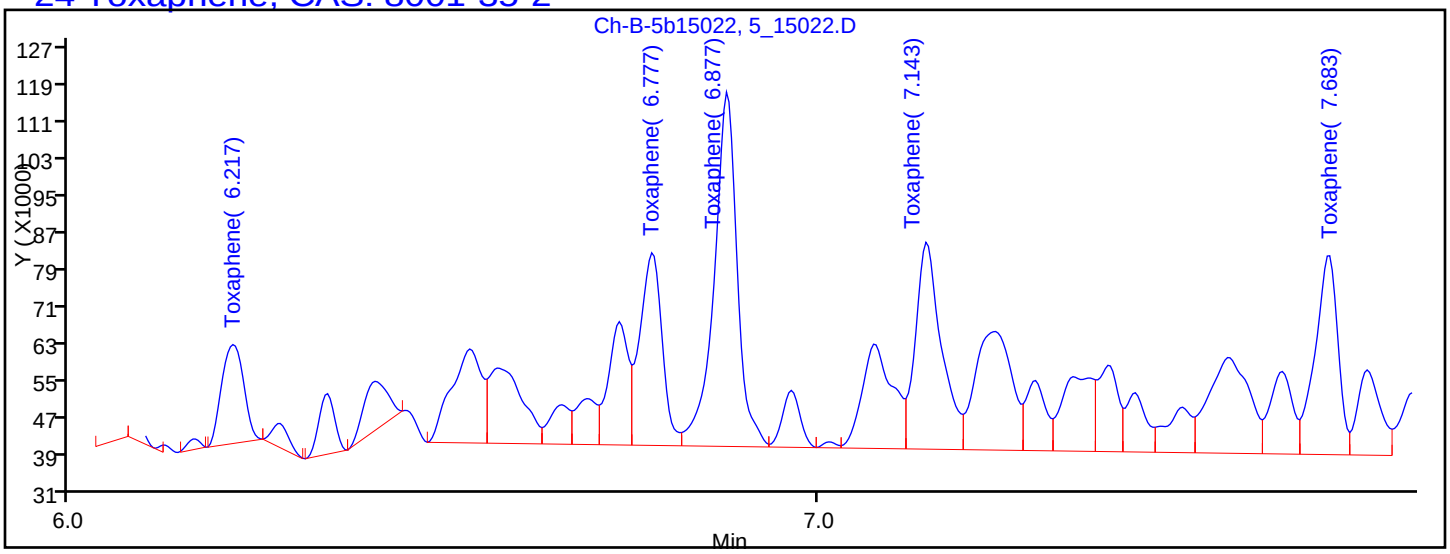
Report Date: 13-Jun-2017 09:18:25 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15022.D

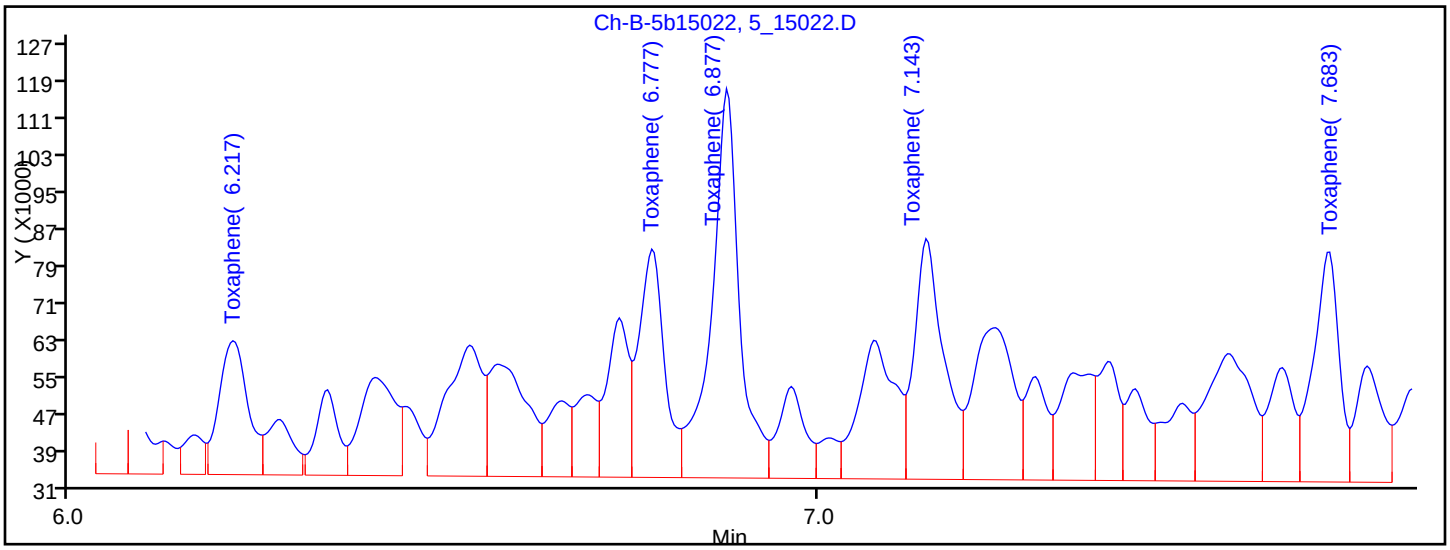
Injection Date:	12-Jun-2017 19:19:50	Instrument ID:	HP6890-5		
Lims ID:	std4				
Client ID:					
Operator ID:	BufTCHROM	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		
Column:		Detector	Ch-B-6b58132		

24 Toxaphene, CAS: 8001-35-2



Processing Integration Results

6.217	Response = 43655
6.777	Response = 86179
6.877	Response = 164176
7.143	Response = 107164
7.683	Response = 90887



Manual Integration Results

6.217	Response = 77165	M
6.777	Response = 117097	M
6.877	Response = 217575	M
7.143	Response = 140834	M
7.683	Response = 117863	M

Reviewer: NearyM, 13-Jun-2017 09:09:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 12-Jun-2017 19:39:22 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub22

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 13-Jun-2017 09:18:27 Calib Date: 12-Jun-2017 19:39:22
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK027

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.157	2.157	0.000	49597242	0.5000	0.5000	
2	2.380	2.380	0.000	23564311	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							
1	5.847	5.843	0.004	210082	0.0500	0.0514	
1	5.967	5.970	-0.003	286416	0.0500	0.0519	
1	6.203	6.200	0.003	142403	0.0500	0.0504	
1	6.540	6.537	0.003	135151	0.0500	0.0531	
1	6.637	6.633	0.004	128559	0.0500	0.0512	
		Average of Peak Amounts =				0.0516	
2	6.217	6.217	0.000	34292	0.0500	0.0515	
2	6.777	6.777	0.000	47091	0.0500	0.0491	
2	6.880	6.877	0.003	88355	0.0500	0.0499	
2	7.147	7.143	0.004	55558	0.0500	0.0498	
2	7.683	7.680	0.003	46544	0.0500	0.0486	
		Average of Peak Amounts =				0.0498	
						RPD = 3.58	

Reagents:

Tox 0.05ng_00012 Amount Added: 1.00 Units: mL
1-Br2nit 50ng_00008 Amount Added: 10.00 Units: uL Run Reagent

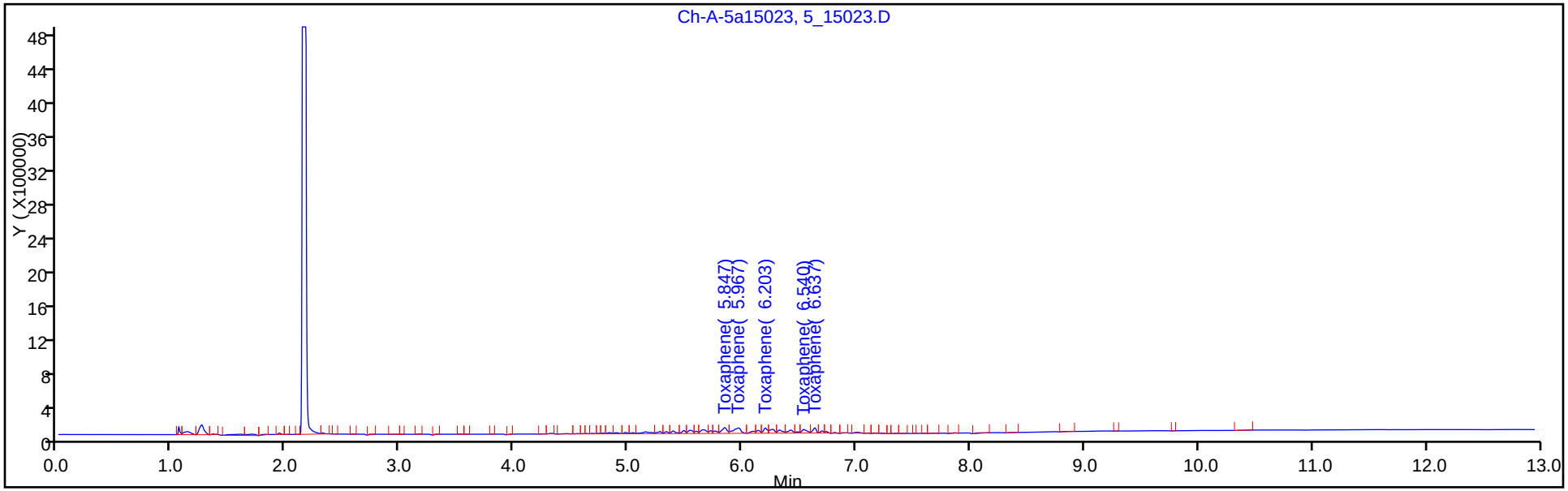
Report Date: 13-Jun-2017 09:18:27 Chrom Revision: 2.2 25-Apr-2017 13:27:22

TestAmerica Buffalo

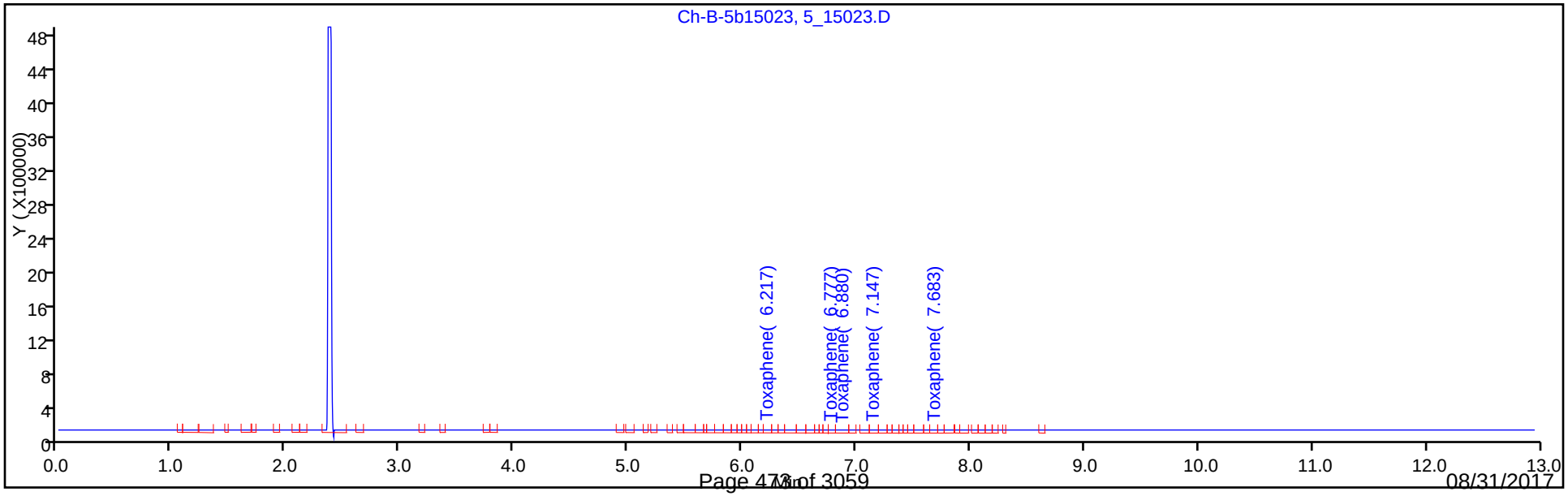
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170613-63208.b\5_15023.D

Injection Date:	12-Jun-2017 19:39:22	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 371935

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 07:35 Calibration End Date: 08/14/2017 08:53 Calibration ID: 31133

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-371935/8	5_17093.D
Level 2	STD4 480-371935/7	5_17092.D
Level 3	STD3 480-371935/6	5_17091.D
Level 4	STD2 480-371935/5	5_17090.D
Level 5	STD1 480-371935/4	5_17089.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.6629	1.6755	1.9281	2.0231	2.0798	Lin1	-0.003	2.0628							0.9990		0.9900
gamma-BHC (Lindane)	1.4860	1.4921	1.6998	1.7714	1.8219	Lin1	-0.002	1.8066							0.9990		0.9900
beta-BHC	0.5994	0.5899	0.6374	0.6334	0.7051	Lin1	-0.001	0.6765							0.9970		0.9900
delta-BHC	1.3058	1.3493	1.5863	1.6034	1.7147	Lin1	-0.003	1.6807							0.9990		0.9900
Heptachlor	1.5622	1.5302	1.5667	1.5237	1.4925	Lin1	0.0004	1.5108							1.0000		0.9900
Aldrin	1.4801	1.4440	1.5709	1.5622	1.5579	Lin1	-0.001	1.5668							1.0000		0.9900
Heptachlor epoxide	1.4656	1.3735	1.3221	1.2865	1.2671	Lin1	0.0011	1.2717							1.0000		0.9900
gamma-Chlordane	1.4990	1.4016	1.4887	1.5405	1.5691	Lin1	-0.001	1.5535							0.9990		0.9900
alpha-Chlordane	1.3683	1.2953	1.3731	1.4197	1.4579	Lin1	-0.001	1.4390							0.9990		0.9900
4,4'-DDE	1.4092	1.2356	1.3693	1.4000	1.4212	Lin1	-0.001	1.4103							0.9990		0.9900
Endosulfan I	1.2154	1.2152	1.1612	1.1406	1.1002	Lin1	0.0007	1.1164							0.9990		0.9900
Dieldrin	1.2390	1.1707	1.2645	1.2322	1.2467	Lin1	0	1.2460							1.0000		0.9900
Endrin	1.2705	1.2635	1.2727	1.2399	1.2157	Lin1	0.0003	1.2294							1.0000		0.9900
4,4'-DDD	0.9775	1.0554	1.1109	1.1393	1.1146	Lin1	-0.001	1.1296							1.0000		0.9900
Endosulfan II	1.0761	1.0695	1.0897	1.0783	1.0407	Lin1	0.0002	1.0591							1.0000		0.9900
4,4'-DDT	1.0348	1.0172	1.1665	1.2069	1.2180	Lin1	-0.001	1.2181							1.0000		0.9900
Endrin aldehyde	0.9385	0.8762	0.8847	0.8594	0.8496	Lin1	0.0004	0.8540							1.0000		0.9900
Methoxychlor	0.5116	0.4995	0.5140	0.5116	0.5092	Lin1	0	0.5108							1.0000		0.9900
Endosulfan sulfate	1.0207	0.9849	1.0058	0.9909	0.9840	Lin1	0.0001	0.9881							1.0000		0.9900
Endrin ketone	1.0950	1.0558	1.1015	1.0957	1.0705	Lin1	0	1.0833							1.0000		0.9900
Tetrachloro-m-xylene	0.6453	0.6057	0.7414	0.7373	0.8302	Lin1	-0.001	0.7965							0.9960		0.9900
DCB Decachlorobiphenyl	0.8259	0.7383	0.7742	0.7792	0.7631	Lin1	0.0001	0.7683							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 371935

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPI ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 07:35 Calibration End Date: 08/14/2017 08:53 Calibration ID: 31133

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-371935/8	5_17093.D
Level 2	STD4 480-371935/7	5_17092.D
Level 3	STD3 480-371935/6	5_17091.D
Level 4	STD2 480-371935/5	5_17090.D
Level 5	STD1 480-371935/4	5_17089.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Lin1	1043365	2076555	11570551	24461005	37066752	0.00500	0.0100	0.0500	0.100	0.150
gamma-BHC (Lindane)	BNB	Lin1	932409	1849179	10200416	21418063	32470567	0.00500	0.0100	0.0500	0.100	0.150
beta-BHC	BNB	Lin1	376082	731151	3824936	7658114	12567110	0.00500	0.0100	0.0500	0.100	0.150
delta-BHC	BNB	Lin1	819354	1672311	9519583	19387134	30560766	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor	BNB	Lin1	980183	1896475	9401818	18422647	26600394	0.00500	0.0100	0.0500	0.100	0.150
Aldrin	BNB	Lin1	928696	1789599	9427353	18888167	27766473	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor epoxide	BNB	Lin1	919605	1702219	7934006	15555545	22582255	0.00500	0.0100	0.0500	0.100	0.150
gamma-Chlordane	BNB	Lin1	940517	1737024	8933708	18626263	27965778	0.00500	0.0100	0.0500	0.100	0.150
alpha-Chlordane	BNB	Lin1	858547	1605363	8239939	17165827	25983339	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDE	BNB	Lin1	884227	1531322	8217331	16926900	25328898	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan I	BNB	Lin1	762596	1506047	6968617	13791142	19607879	0.00500	0.0100	0.0500	0.100	0.150
Dieldrin	BNB	Lin1	777385	1450884	7588603	14898081	22218588	0.00500	0.0100	0.0500	0.100	0.150
Endrin	BNB	Lin1	797148	1565959	7637540	14992134	21665930	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDD	BNB	Lin1	613326	1308073	6666406	13775203	19865619	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan II	BNB	Lin1	675210	1325452	6539453	13038167	18547015	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDT	BNB	Lin1	649254	1260682	7000435	14591949	21708391	0.00500	0.0100	0.0500	0.100	0.150
Endrin aldehyde	BNB	Lin1	588845	1085887	5309044	10390669	15142476	0.00500	0.0100	0.0500	0.100	0.150
Methoxychlor	BNB	Lin1	321010	619074	3084683	6185913	9074833	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan sulfate	BNB	Lin1	640428	1220648	6035876	11980436	17536719	0.00500	0.0100	0.0500	0.100	0.150
Endrin ketone	BNB	Lin1	687057	1308514	6609928	13248131	19079699	0.00500	0.0100	0.0500	0.100	0.150
Tetrachloro-m-xylene	BNB	Lin1	404868	750617	4449443	8915010	14796665	0.00500	0.0100	0.0500	0.100	0.150
DCB Decachlorobiphenyl	BNB	Lin1	518211	915049	4646023	9420719	13600390	0.00500	0.0100	0.0500	0.100	0.150

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17089.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Aug-2017 07:35:25 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 14-Aug-2017 10:14:38 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK026

First Level Reviewer: NearyM Date: 14-Aug-2017 08:19:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.117	2.117	0.000	59408224	0.5000	0.5000	
2	2.340	2.340	0.000	23970048	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.667	0.000	14796665	0.1500	0.1579	
2	3.083	3.083	0.000	8039754	0.1500	0.1503	
						RPD = 4.93	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.983	0.000	13600390	0.1500	0.1488	
2	9.143	9.143	0.000	5324605	0.1500	0.1515	
						RPD = 1.79	
4 alpha-BHC							
1	3.100	3.097	0.003	37066752	0.1500	0.1526	
2	3.650	3.650	0.000	13780993	0.1500	0.1503	
						RPD = 1.49	
6 gamma-BHC (Lindane)							
1	3.363	3.360	0.003	32470567	0.1500	0.1525	
2	4.013	4.010	0.003	11766574	0.1500	0.1530	
						RPD = 0.33	
7 beta-BHC							
1	3.433	3.433	0.000	12567110	0.1500	0.1573	
2	4.087	4.087	0.000	4807799	0.1500	0.1531	
						RPD = 2.70	
8 delta-BHC							
1	3.593	3.593	0.000	30560766	0.1500	0.1545	
2	4.407	4.407	0.000	11013886	0.1500	0.1527	
						RPD = 1.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.793	3.790	0.003	26600394	0.1500	0.1480	
2	4.493	4.493	0.000	10426368	0.1500	0.1480	
						RPD = 0.03	
10 Aldrin							
1	4.080	4.077	0.003	27766473	0.1500	0.1496	
2	4.850	4.850	0.000	10167600	0.1500	0.1495	
						RPD = 0.06	
13 Heptachlor epoxide							
1	4.677	4.677	0.000	22582255	0.1500	0.1486	
2	5.460	5.460	0.000	8513113	0.1500	0.1488	
						RPD = 0.15	
14 gamma-Chlordane							
1	4.803	4.803	0.000	27965778	0.1500	0.1520	
2	5.663	5.663	0.000	9723049	0.1500	0.1498	
						RPD = 1.47	
15 alpha-Chlordane							
1	4.940	4.940	0.000	25983339	0.1500	0.1526	
2	5.820	5.817	0.003	9190000	0.1500	0.1504	
						RPD = 1.39	
16 4,4'-DDE							
1	5.023	5.023	0.000	25328898	0.1500	0.1516	
2	5.980	5.980	0.000	9047628	0.1500	0.1503	
						RPD = 0.89	
18 Endosulfan I							
1	5.077	5.077	0.000	19607879	0.1500	0.1472	
2	5.887	5.887	0.000	7681695	0.1500	0.1487	
						RPD = 1.06	
19 Dieldrin							
1	5.323	5.323	0.000	22218588	0.1500	0.1503	
2	6.180	6.177	0.003	9124917	0.1500	0.1492	
						RPD = 0.74	
20 Endrin							
1	5.560	5.560	0.000	21665930	0.1500	0.1480	
2	6.503	6.503	0.000	8411255	0.1500	0.1497	
						RPD = 1.08	
22 4,4'-DDD							
1	5.633	5.637	-0.004	19865619	0.1500	0.1487	
2	6.590	6.590	0.000	7412973	0.1500	0.1511	
						RPD = 1.62	
23 Endosulfan II							
1	5.790	5.787	0.003	18547015	0.1500	0.1472	
2	6.720	6.720	0.000	7405089	0.1500	0.1503	
						RPD = 2.10	
26 4,4'-DDT							
1	5.923	5.927	-0.004	21708391	0.1500	0.1511	
2	6.920	6.920	0.000	7525633	0.1500	0.1507	
						RPD = 0.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.217	0.000	15142476	0.1500	0.1487	
2	7.067	7.067	0.000	5839452	0.1500	0.1493	
						RPD = 0.36	
29 Methoxychlor							
1	6.433	6.433	0.000	9074833	0.1500	0.1496	
2	7.613	7.610	0.003	3451958	0.1500	0.1519	
						RPD = 1.52	
30 Endosulfan sulfate							
1	6.663	6.663	0.000	17536719	0.1500	0.1492	
2	7.353	7.353	0.000	6800281	0.1500	0.1500	
						RPD = 0.49	
31 Endrin ketone							
1	6.950	6.950	0.000	19079699	0.1500	0.1482	
2	7.913	7.913	0.000	7479098	0.1500	0.1503	
						RPD = 1.38	
S 35 BHC, Total							
1						0.6169	
2						0.6092	
						RPD = 1.27	

Reagents:

PEST_CAL_.15_00025	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

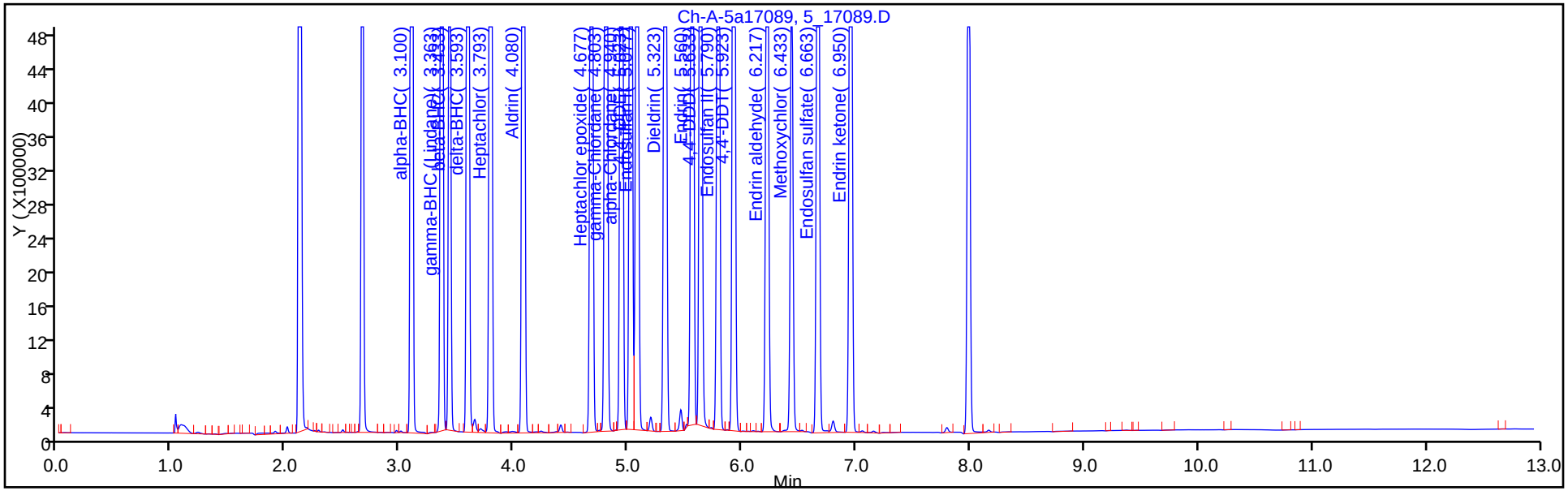
Report Date: 14-Aug-2017 10:14:38 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

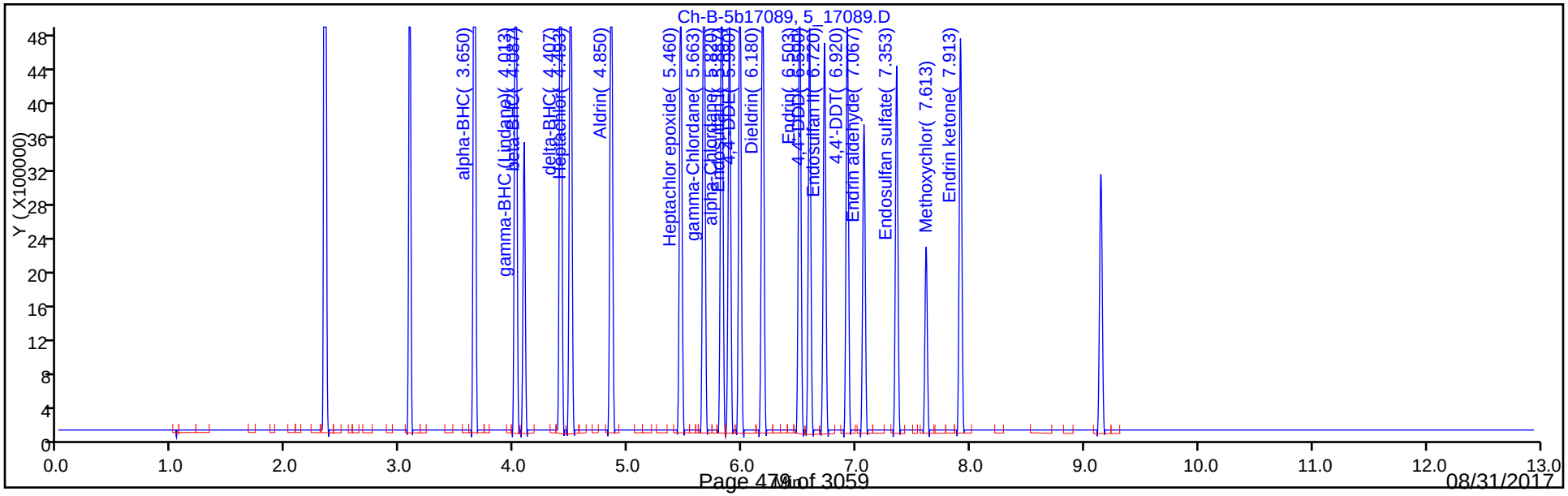
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17089.D

Injection Date:	14-Aug-2017 07:35:25	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17090.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Aug-2017 07:55:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 14-Aug-2017 10:14:41 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.117	2.117	0.000	60454683	0.5000	0.5000	
2	2.337	2.337	0.000	24032851	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.667	0.000	8915010	0.1000	0.0941	
2	3.080	3.080	0.000	5370444	0.1000	0.1005	
						RPD = 6.51	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.983	0.000	9420719	0.1000	0.1013	
2	9.143	9.143	0.000	3522010	0.1000	0.1001	
						RPD = 1.14	
4 alpha-BHC							
1	3.097	3.097	0.000	24461005	0.1000	0.0994	
2	3.650	3.650	0.000	9204309	0.1000	0.1006	
						RPD = 1.15	
6 gamma-BHC (Lindane)							
1	3.360	3.360	0.000	21418063	0.1000	0.0993	
2	4.010	4.010	0.000	7544104	0.1000	0.0983	
						RPD = 0.97	
7 beta-BHC							
1	3.430	3.430	0.000	7658114	0.1000	0.0946	
2	4.083	4.083	0.000	3086277	0.1000	0.0984	
						RPD = 3.96	
8 delta-BHC							
1	3.590	3.590	0.000	19387134	0.1000	0.0969	
2	4.403	4.403	0.000	7068251	0.1000	0.0983	
						RPD = 1.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.790	3.790	0.000	18422647	0.1000	0.1006	
2	4.493	4.493	0.000	7147888	0.1000	0.1013	
						RPD = 0.72	
10 Aldrin							
1	4.077	4.077	0.000	18888167	0.1000	0.1001	
2	4.850	4.850	0.000	6850427	0.1000	0.1007	
						RPD = 0.61	
13 Heptachlor epoxide							
1	4.673	4.673	0.000	15555545	0.1000	0.1003	
2	5.460	5.460	0.000	5763735	0.1000	0.1006	
						RPD = 0.31	
14 gamma-Chlordane							
1	4.803	4.803	0.000	18626263	0.1000	0.0997	
2	5.663	5.663	0.000	6559205	0.1000	0.1011	
						RPD = 1.41	
15 alpha-Chlordane							
1	4.937	4.937	0.000	17165827	0.1000	0.0992	
2	5.817	5.817	0.000	6144059	0.1000	0.1006	
						RPD = 1.34	
16 4,4'-DDE							
1	5.020	5.020	0.000	16926900	0.1000	0.0997	
2	5.977	5.977	0.000	6075035	0.1000	0.1009	
						RPD = 1.21	
18 Endosulfan I							
1	5.073	5.073	0.000	13791142	0.1000	0.1015	
2	5.887	5.887	0.000	5219005	0.1000	0.1009	
						RPD = 0.58	
19 Dieldrin							
1	5.320	5.320	0.000	14898081	0.1000	0.0991	
2	6.177	6.177	0.000	6169776	0.1000	0.1008	
						RPD = 1.77	
20 Endrin							
1	5.560	5.560	0.000	14992134	0.1000	0.1006	
2	6.503	6.503	0.000	5664882	0.1000	0.1007	
						RPD = 0.15	
22 4,4'-DDD							
1	5.633	5.633	0.000	13775203	0.1000	0.1015	
2	6.590	6.590	0.000	4927864	0.1000	0.1005	
						RPD = 0.99	
23 Endosulfan II							
1	5.787	5.787	0.000	13038167	0.1000	0.1017	
2	6.720	6.720	0.000	4936178	0.1000	0.1002	
						RPD = 1.42	
26 4,4'-DDT							
1	5.923	5.923	0.000	14591949	0.1000	0.1002	
2	6.920	6.920	0.000	5036052	0.1000	0.1011	
						RPD = 0.97	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.217	0.000	10390669	0.1000	0.1001	
2	7.067	7.067	0.000	3948133	0.1000	0.1008	
						RPD = 0.65	
29 Methoxychlor							
1	6.430	6.430	0.000	6185913	0.1000	0.1002	
2	7.610	7.610	0.000	2276385	0.1000	0.1003	
						RPD = 0.10	
30 Endosulfan sulfate							
1	6.660	6.660	0.000	11980436	0.1000	0.1001	
2	7.353	7.353	0.000	4568939	0.1000	0.1008	
						RPD = 0.65	
31 Endrin ketone							
1	6.950	6.950	0.000	13248131	0.1000	0.1011	
2	7.913	7.913	0.000	5001914	0.1000	0.1006	
						RPD = 0.56	

Reagents:

PEST_CAL_.10_00027	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

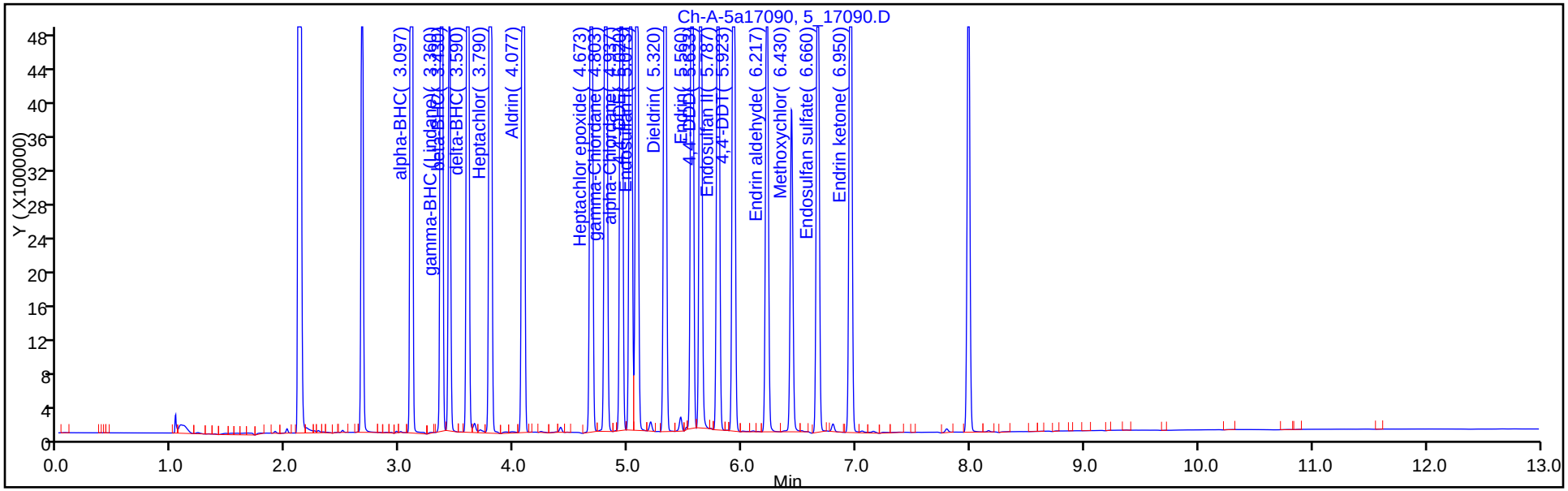
Report Date: 14-Aug-2017 10:14:41 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

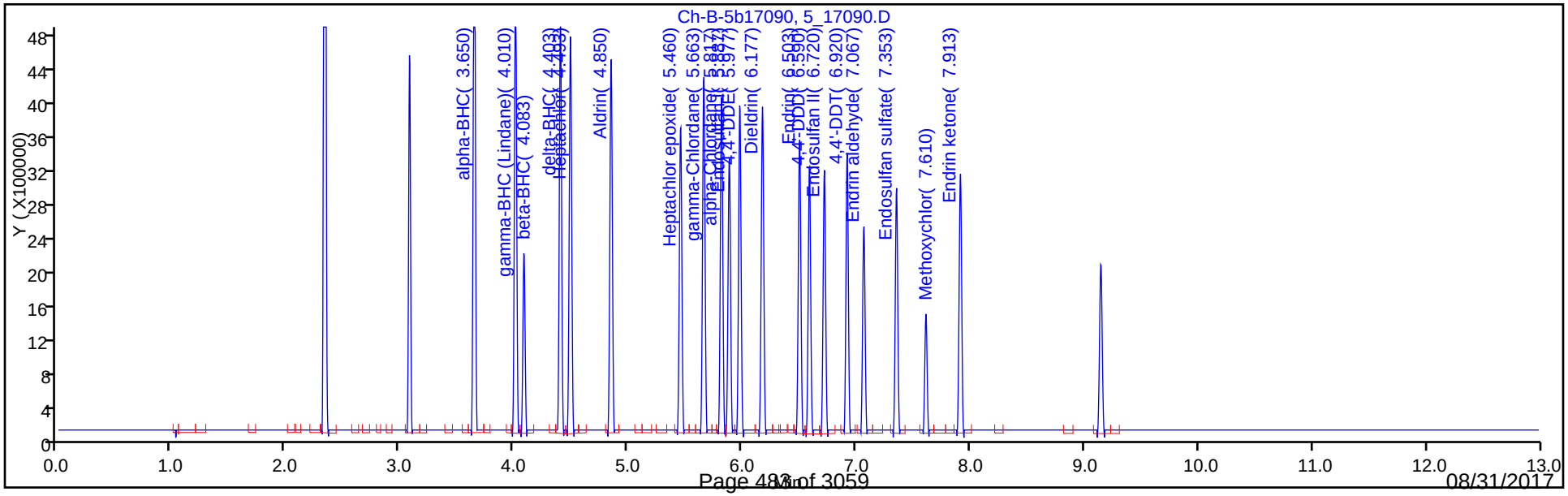
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17090.D

Injection Date:	14-Aug-2017 07:55:00	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17091.D
Lims ID: std3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 14-Aug-2017 08:14:34 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 14-Aug-2017 10:14:43 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK026

First Level Reviewer: NearyM Date: 14-Aug-2017 08:53:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.117	2.117	0.000	60010752	0.5000	0.5000	
2	2.340	2.340	0.000	24043778	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.667	0.000	4449443	0.0500	0.0481	
2	3.083	3.083	0.000	2613930	0.0500	0.0494	
						RPD = 2.58	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.983	0.000	4646023	0.0500	0.0502	
2	9.143	9.143	0.000	1697519	0.0500	0.0485	
						RPD = 3.61	
4 alpha-BHC							
1	3.097	3.097	0.000	11570551	0.0500	0.0481	
2	3.650	3.650	0.000	4446126	0.0500	0.0492	
						RPD = 2.33	
6 gamma-BHC (Lindane)							
1	3.360	3.360	0.000	10200416	0.0500	0.0483	
2	4.010	4.010	0.000	3684901	0.0500	0.0487	
						RPD = 0.85	
7 beta-BHC							
1	3.433	3.433	0.000	3824936	0.0500	0.0481	
2	4.087	4.087	0.000	1509591	0.0500	0.0486	
						RPD = 1.16	
8 delta-BHC							
1	3.593	3.593	0.000	9519583	0.0500	0.0487	
2	4.407	4.407	0.000	3487259	0.0500	0.0493	
						RPD = 1.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.790	3.790	0.000	9401818	0.0500	0.0516	
2	4.493	4.493	0.000	3571458	0.0500	0.0509	
						RPD = 1.49	
10 Aldrin							
1	4.077	4.077	0.000	9427353	0.0500	0.0505	
2	4.850	4.850	0.000	3376714	0.0500	0.0501	
						RPD = 0.96	
13 Heptachlor epoxide							
1	4.677	4.677	0.000	7934006	0.0500	0.0511	
2	5.460	5.460	0.000	2897091	0.0500	0.0508	
						RPD = 0.75	
14 gamma-Chlordane							
1	4.803	4.803	0.000	8933708	0.0500	0.0484	
2	5.663	5.663	0.000	3177103	0.0500	0.0494	
						RPD = 2.03	
15 alpha-Chlordane							
1	4.940	4.940	0.000	8239939	0.0500	0.0483	
2	5.817	5.817	0.000	2984592	0.0500	0.0492	
						RPD = 1.95	
16 4,4'-DDE							
1	5.023	5.023	0.000	8217331	0.0500	0.0490	
2	5.980	5.980	0.000	2934040	0.0500	0.0492	
						RPD = 0.39	
18 Endosulfan I							
1	5.077	5.077	0.000	6968617	0.0500	0.0513	
2	5.887	5.887	0.000	2604114	0.0500	0.0505	
						RPD = 1.56	
19 Dieldrin							
1	5.323	5.323	0.000	7588603	0.0500	0.0509	
2	6.177	6.177	0.000	3049824	0.0500	0.0502	
						RPD = 1.36	
20 Endrin							
1	5.560	5.560	0.000	7637540	0.0500	0.0515	
2	6.503	6.503	0.000	2786269	0.0500	0.0498	
						RPD = 3.25	
22 4,4'-DDD							
1	5.637	5.637	0.000	6666406	0.0500	0.0498	
2	6.590	6.590	0.000	2361246	0.0500	0.0487	
						RPD = 2.35	
23 Endosulfan II							
1	5.787	5.787	0.000	6539453	0.0500	0.0513	
2	6.720	6.720	0.000	2426027	0.0500	0.0496	
						RPD = 3.28	
26 4,4'-DDT							
1	5.927	5.927	0.000	7000435	0.0500	0.0490	
2	6.920	6.920	0.000	2368506	0.0500	0.0484	
						RPD = 1.19	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.217	0.000	5309044	0.0500	0.0513	
2	7.067	7.067	0.000	1958282	0.0500	0.0502	
						RPD = 2.25	
29 Methoxychlor							
1	6.433	6.433	0.000	3084683	0.0500	0.0504	
2	7.610	7.610	0.000	1076975	0.0500	0.0481	
						RPD = 4.66	
30 Endosulfan sulfate							
1	6.663	6.663	0.000	6035876	0.0500	0.0508	
2	7.353	7.353	0.000	2220947	0.0500	0.0494	
						RPD = 2.64	
31 Endrin ketone							
1	6.950	6.950	0.000	6609928	0.0500	0.0508	
2	7.913	7.913	0.000	2427719	0.0500	0.0493	
						RPD = 3.07	

Reagents:

PEST_CCV_.05_00240	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

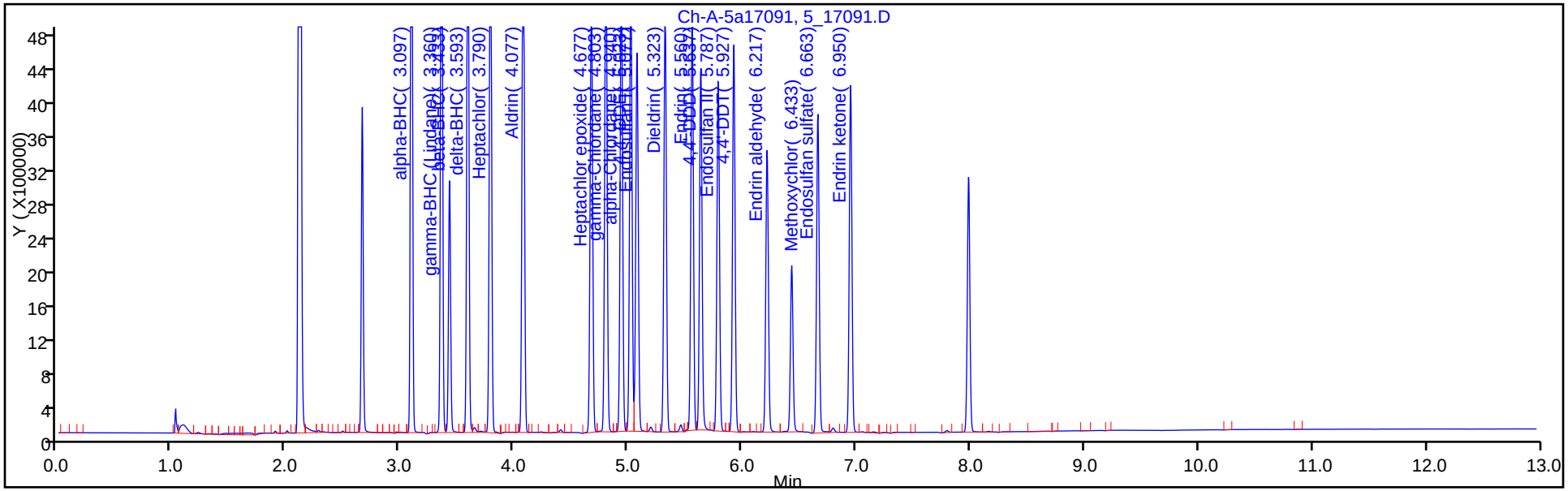
Report Date: 14-Aug-2017 10:14:44 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

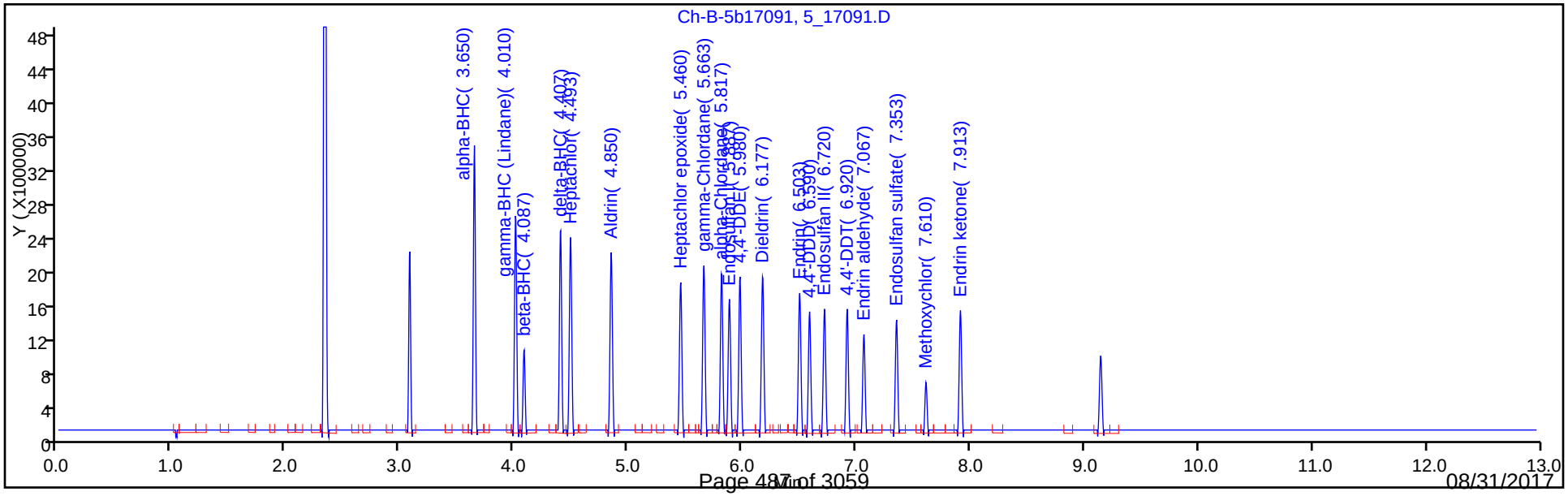
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17091.D

Injection Date:	14-Aug-2017 08:14:34	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17092.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Aug-2017 08:34:14 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 14-Aug-2017 10:14:46 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.117	2.117	0.000	61967695	0.5000	0.5000	
2	2.337	2.340	-0.003	24842050	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.667	0.000	750617	0.0100	0.009180	
2	3.080	3.083	-0.003	480301	0.0100	0.009575	
						RPD = 4.22	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.983	0.000	915049	0.0100	0.009459	
2	9.143	9.143	0.000	336779	0.0100	0.009652	
						RPD = 2.03	
4 alpha-BHC							
1	3.097	3.097	0.000	2076555	0.0100	0.009483	
2	3.647	3.650	-0.003	797778	0.0100	0.009613	
						RPD = 1.36	
6 gamma-BHC (Lindane)							
1	3.360	3.360	0.000	1849179	0.0100	0.009511	
2	4.010	4.010	0.000	662863	0.0100	0.009597	
						RPD = 0.90	
7 beta-BHC							
1	3.430	3.433	-0.003	731151	0.0100	0.009675	
2	4.083	4.087	-0.004	278387	0.0100	0.009505	
						RPD = 1.77	
8 delta-BHC							
1	3.590	3.593	-0.003	1672311	0.0100	0.009520	
2	4.403	4.407	-0.004	586908	0.0100	0.009342	
						RPD = 1.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.790	3.790	0.000	1896475	0.0100	0.009890	
2	4.490	4.493	-0.003	682232	0.0100	0.009787	
						RPD = 1.05	
10 Aldrin							
1	4.077	4.077	0.000	1789599	0.0100	0.009631	
2	4.847	4.850	-0.003	614455	0.0100	0.009522	
						RPD = 1.14	
13 Heptachlor epoxide							
1	4.673	4.677	-0.004	1702219	0.0100	0.0100	
2	5.457	5.460	-0.003	547843	0.0100	0.009624	
						RPD = 3.51	
14 gamma-Chlordane							
1	4.803	4.803	0.000	1737024	0.0100	0.009536	
2	5.660	5.663	-0.003	570666	0.0100	0.009350	
						RPD = 1.97	
15 alpha-Chlordane							
1	4.937	4.940	-0.003	1605363	0.0100	0.009581	
2	5.817	5.817	0.000	548390	0.0100	0.009403	
						RPD = 1.87	
16 4,4'-DDE							
1	5.020	5.023	-0.003	1531322	0.0100	0.009217	
2	5.977	5.980	-0.003	518457	0.0100	0.009163	
						RPD = 0.58	
18 Endosulfan I							
1	5.073	5.077	-0.004	1506047	0.0100	0.0102	
2	5.883	5.887	-0.004	500011	0.0100	0.009744	
						RPD = 4.75	
19 Dieldrin							
1	5.320	5.323	-0.003	1450884	0.0100	0.009579	
2	6.173	6.177	-0.004	560214	0.0100	0.009600	
						RPD = 0.22	
20 Endrin							
1	5.557	5.560	-0.003	1565959	0.0100	0.0100	
2	6.500	6.503	-0.003	522695	0.0100	0.009553	
						RPD = 4.56	
22 4,4'-DDD							
1	5.637	5.637	0.000	1308073	0.0100	0.0100	
2	6.590	6.590	0.000	423984	0.0100	0.009296	
						RPD = 7.31	
23 Endosulfan II							
1	5.787	5.787	0.000	1325452	0.0100	0.0099	
2	6.720	6.720	0.000	453816	0.0100	0.009618	
						RPD = 3.22	
26 4,4'-DDT							
1	5.923	5.927	-0.004	1260682	0.0100	0.009441	
2	6.917	6.920	-0.003	403149	0.0100	0.009310	
						RPD = 1.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.217	0.000	1085887	0.0100	0.009779	
2	7.063	7.067	-0.004	371517	0.0100	0.009535	
						RPD = 2.52	
29 Methoxychlor							
1	6.433	6.433	0.000	619074	0.0100	0.009826	
2	7.610	7.610	0.000	192767	0.0100	0.009328	
						RPD = 5.21	
30 Endosulfan sulfate							
1	6.660	6.663	-0.003	1220648	0.0100	0.009830	
2	7.350	7.353	-0.003	408416	0.0100	0.009536	
						RPD = 3.04	
31 Endrin ketone							
1	6.947	6.950	-0.003	1308514	0.0100	0.009740	
2	7.910	7.913	-0.003	448354	0.0100	0.009616	
						RPD = 1.28	
S 35 BHC, Total							
1						0.0382	
2						0.0381	
						RPD = 0.34	

Reagents:

pest_cal_.01_00018	Amount Added: 1.00	Units: mL		
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent	
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent	

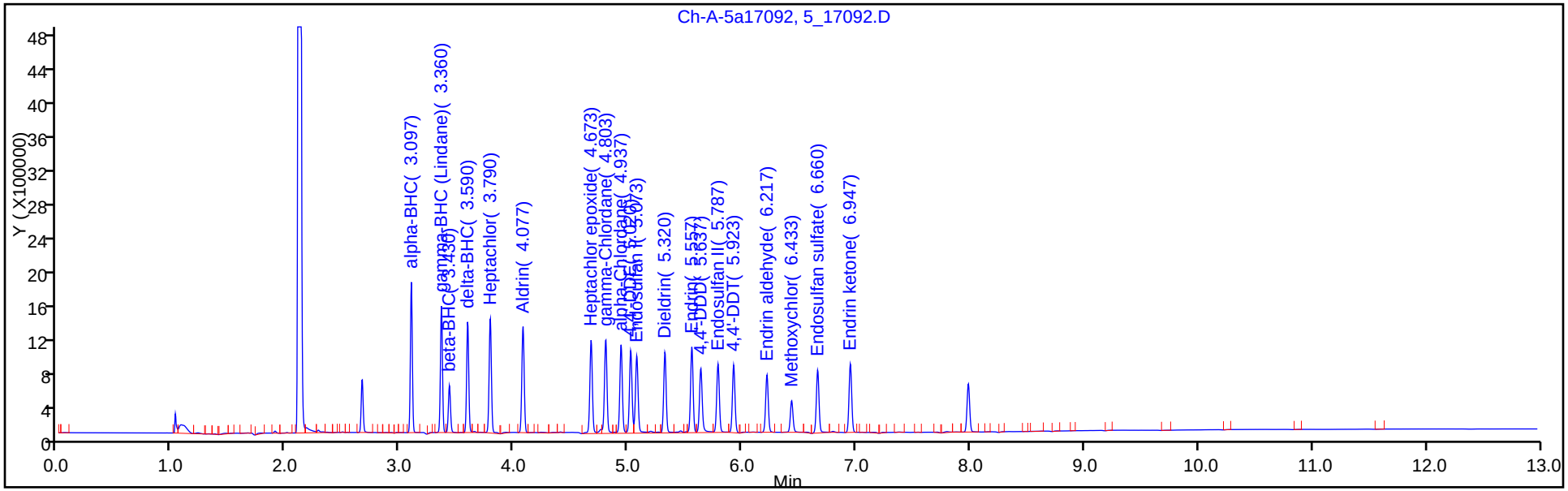
Report Date: 14-Aug-2017 10:14:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

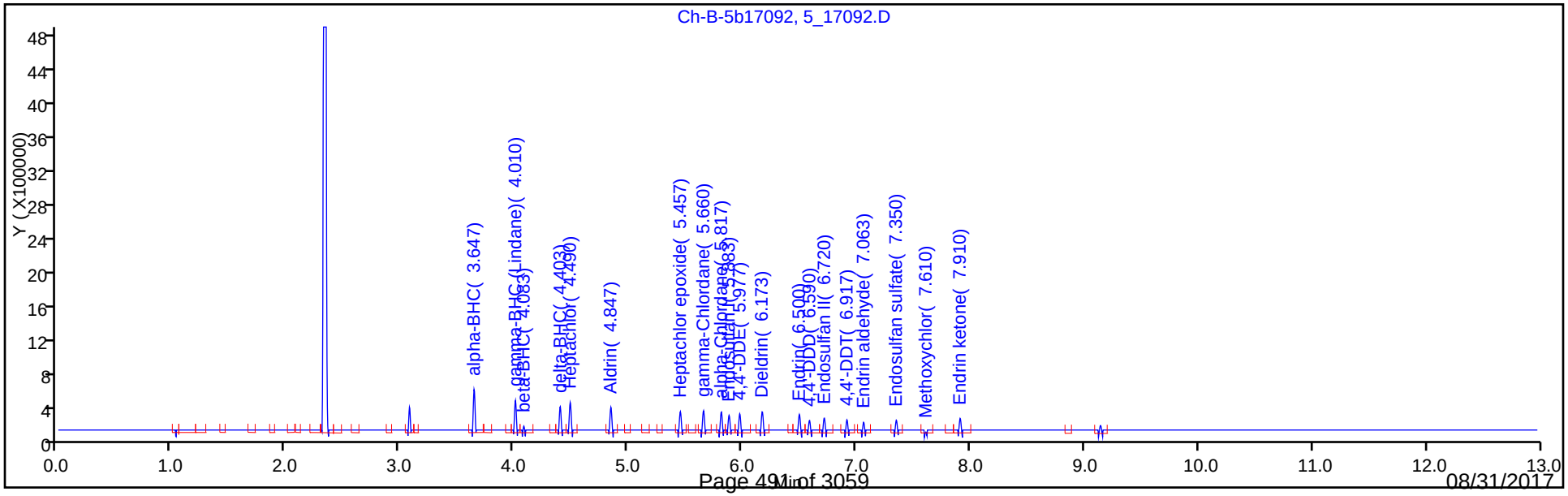
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17092.D

Injection Date:	14-Aug-2017 08:34:14	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-Aug-2017 08:53:53 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 14-Aug-2017 10:14:48 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.117	2.117	0.000	62744921	0.5000	0.5000	
2	2.337	2.340	-0.003	25141989	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.667	0.000	404868	0.005000	0.005627	
2	3.080	3.083	-0.003	241317	0.005000	0.005240	
						RPD = 7.12	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.983	0.000	518211	0.005000	0.005224	
2	9.143	9.143	0.000	178948	0.005000	0.005273	
						RPD = 0.93	
4 alpha-BHC							
1	3.097	3.097	0.000	1043365	0.005000	0.005391	
2	3.650	3.650	0.000	382367	0.005000	0.005230	
						RPD = 3.03	
6 gamma-BHC (Lindane)							
1	3.360	3.360	0.000	932409	0.005000	0.005365	
2	4.010	4.010	0.000	322192	0.005000	0.005312	
						RPD = 1.00	
7 beta-BHC							
1	3.430	3.433	-0.003	376082	0.005000	0.005384	
2	4.083	4.087	-0.004	144382	0.005000	0.005362	
						RPD = 0.42	
8 delta-BHC							
1	3.593	3.593	0.000	819354	0.005000	0.005376	
2	4.403	4.407	-0.004	292387	0.005000	0.005397	
						RPD = 0.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.790	3.790	0.000	980183	0.005000	0.004931	
2	4.493	4.493	0.000	337190	0.005000	0.005021	
						RPD = 1.80	
10 Aldrin							
1	4.077	4.077	0.000	928696	0.005000	0.005138	
2	4.850	4.850	0.000	312777	0.005000	0.005214	
						RPD = 1.46	
13 Heptachlor epoxide							
1	4.673	4.677	-0.004	919605	0.005000	0.004930	
2	5.457	5.460	-0.003	283348	0.005000	0.005117	
						RPD = 3.72	
14 gamma-Chlordane							
1	4.803	4.803	0.000	940517	0.005000	0.005338	
2	5.663	5.663	0.000	302570	0.005000	0.005335	
						RPD = 0.06	
15 alpha-Chlordane							
1	4.940	4.940	0.000	858547	0.005000	0.005333	
2	5.817	5.817	0.000	292719	0.005000	0.005331	
						RPD = 0.05	
16 4,4'-DDE							
1	5.023	5.023	0.000	884227	0.005000	0.005452	
2	5.980	5.980	0.000	288415	0.005000	0.005444	
						RPD = 0.15	
18 Endosulfan I							
1	5.077	5.077	0.000	762596	0.005000	0.004776	
2	5.887	5.887	0.000	252075	0.005000	0.005070	
						RPD = 5.97	
19 Dieldrin							
1	5.323	5.323	0.000	777385	0.005000	0.005155	
2	6.177	6.177	0.000	280608	0.005000	0.005162	
						RPD = 0.13	
20 Endrin							
1	5.560	5.560	0.000	797148	0.005000	0.004888	
2	6.503	6.503	0.000	272218	0.005000	0.005215	
						RPD = 6.46	
22 4,4'-DDD							
1	5.637	5.637	0.000	613326	0.005000	0.004985	
2	6.590	6.590	0.000	228387	0.005000	0.005422	
						RPD = 8.41	
23 Endosulfan II							
1	5.790	5.787	0.003	675210	0.005000	0.004916	
2	6.720	6.720	0.000	230224	0.005000	0.005207	
						RPD = 5.75	
26 4,4'-DDT							
1	5.927	5.927	0.000	649254	0.005000	0.005338	
2	6.920	6.920	0.000	202305	0.005000	0.005424	
						RPD = 1.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.217	0.000	588845	0.005000	0.005014	
2	7.067	7.067	0.000	197593	0.005000	0.005198	
						RPD = 3.62	
29 Methoxychlor							
1	6.433	6.433	0.000	321010	0.005000	0.005056	
2	7.610	7.610	0.000	101959	0.005000	0.005453	
						RPD = 7.56	
30 Endosulfan sulfate							
1	6.663	6.663	0.000	640428	0.005000	0.005027	
2	7.353	7.353	0.000	208253	0.005000	0.005249	
						RPD = 4.32	
31 Endrin ketone							
1	6.950	6.950	0.000	687057	0.005000	0.005048	
2	7.913	7.913	0.000	222978	0.005000	0.005224	
						RPD = 3.42	
S 35 BHC, Total							
1						0.0215	
2						0.0213	
						RPD = 1.01	

Reagents:

pest_cal_.005_00018	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

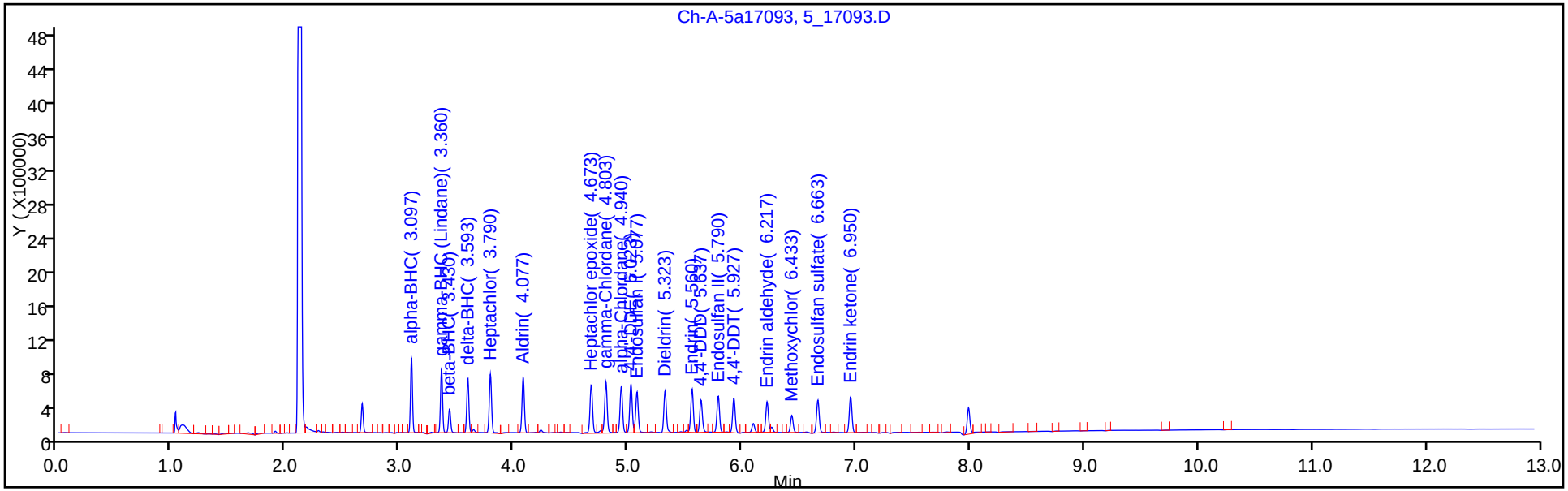
Report Date: 14-Aug-2017 10:14:48 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

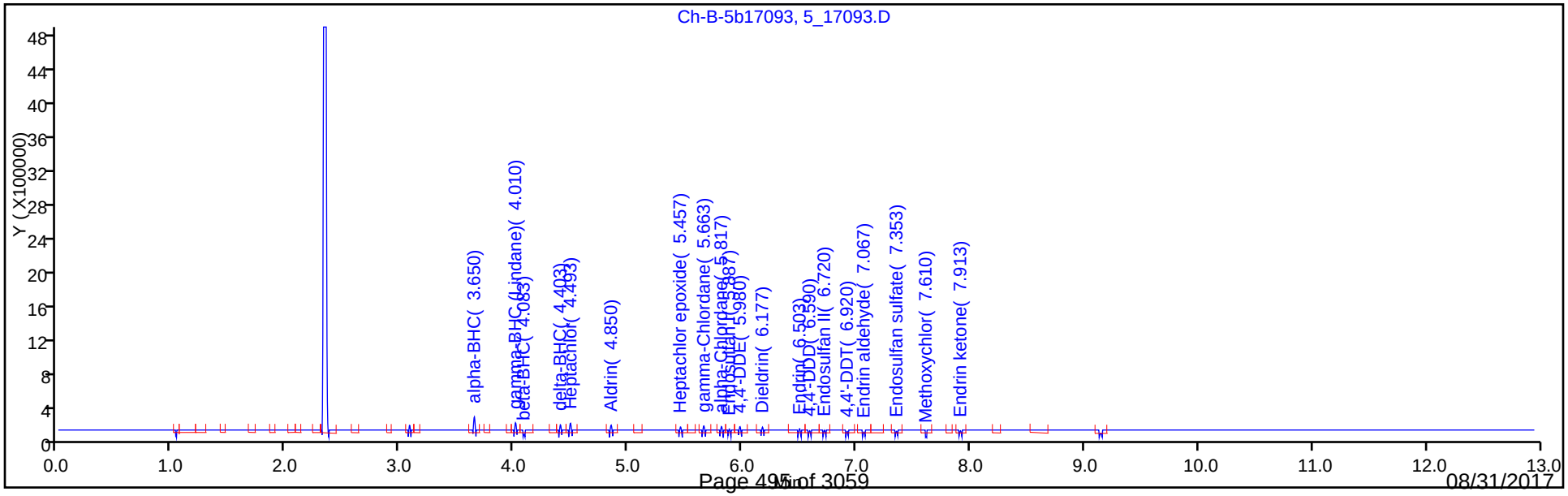
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Injection Date:	14-Aug-2017 08:53:53	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 371935

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 07:35 Calibration End Date: 08/14/2017 08:53 Calibration ID: 31134

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-371935/8	5_17093.D
Level 2	STD4 480-371935/7	5_17092.D
Level 3	STD3 480-371935/6	5_17091.D
Level 4	STD2 480-371935/5	5_17090.D
Level 5	STD1 480-371935/4	5_17089.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
alpha-BHC	1.5208	1.6057	1.8492	1.9149	1.9164	Lin1	-0.002	1.9285							1.0000		0.9900
gamma-BHC (Lindane)	1.2815	1.3342	1.5326	1.5695	1.6363	Lin1	-0.002	1.6181							0.9990		0.9900
beta-BHC	0.5743	0.5603	0.6279	0.6421	0.6686	Lin1	-0.001	0.6593							0.9990		0.9900
delta-BHC	1.1629	1.1813	1.4504	1.4705	1.5316	Lin1	-0.002	1.5203							0.9990		0.9900
Heptachlor	1.3411	1.3731	1.4854	1.4871	1.4499	Lin1	-0.001	1.4742							1.0000		0.9900
Aldrin	1.2440	1.2367	1.4044	1.4252	1.4139	Lin1	-0.001	1.4271							1.0000		0.9900
Heptachlor epoxide	1.1270	1.1027	1.2049	1.1991	1.1839	Lin1	0	1.1963							1.0000		0.9900
gamma-Chlordane	1.2034	1.1486	1.3214	1.3646	1.3521	Lin1	-0.001	1.3622							1.0000		0.9900
alpha-Chlordane	1.1643	1.1038	1.2413	1.2783	1.2780	Lin1	-0.001	1.2809							1.0000		0.9900
Endosulfan I	1.0026	1.0064	1.0831	1.0858	1.0682	Lin1	0	1.0805							1.0000		0.9900
4,4'-DDE	1.1471	1.0435	1.2203	1.2639	1.2582	Lin1	-0.001	1.2635							0.9990		0.9900
Dieldrin	1.1161	1.1276	1.2684	1.2836	1.2689	Lin1	-0.001	1.2832							1.0000		0.9900
Endrin	1.0827	1.0520	1.1588	1.1786	1.1697	Lin1	-0.001	1.1772							1.0000		0.9900
4,4'-DDD	0.9084	0.8534	0.9821	1.0252	1.0309	Lin1	-0.001	1.0303							0.9990		0.9900
Endosulfan II	0.9157	0.9134	1.0090	1.0270	1.0298	Lin1	-0.001	1.0328							1.0000		0.9900
4,4'-DDT	0.8046	0.8114	0.9851	1.0477	1.0465	Lin1	-0.002	1.0526							0.9990		0.9900
Endrin aldehyde	0.7859	0.7478	0.8145	0.8214	0.8120	Lin1	0	0.8181							1.0000		0.9900
Endosulfan sulfate	0.8283	0.8220	0.9237	0.9506	0.9457	Lin1	-0.001	0.9515							1.0000		0.9900
Methoxychlor	0.4055	0.3880	0.4479	0.4736	0.4800	Lin1	-0.001	0.4780							0.9990		0.9900
Endrin ketone	0.8869	0.9024	1.0097	1.0406	1.0401	Lin1	-0.001	1.0449							1.0000		0.9900
Tetrachloro-m-xylene	0.9598	0.9667	1.0872	1.1173	1.1180	Lin1	-0.001	1.1228							1.0000		0.9900
DCB Decachlorobiphenyl	0.7117	0.6778	0.7060	0.7327	0.7405	Lin1	0	0.7351							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PESTICIDES BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 371935

SDG No.:

Instrument ID: HP6890-5 GC Column: RTX-CLPII ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2017 07:35 Calibration End Date: 08/14/2017 08:53 Calibration ID: 31134

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD5 480-371935/8	5_17093.D
Level 2	STD4 480-371935/7	5_17092.D
Level 3	STD3 480-371935/6	5_17091.D
Level 4	STD2 480-371935/5	5_17090.D
Level 5	STD1 480-371935/4	5_17089.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	BNB	Lin1	382367	797778	4446126	9204309	13780993	0.00500	0.0100	0.0500	0.100	0.150
gamma-BHC (Lindane)	BNB	Lin1	322192	662863	3684901	7544104	11766574	0.00500	0.0100	0.0500	0.100	0.150
beta-BHC	BNB	Lin1	144382	278387	1509591	3086277	4807799	0.00500	0.0100	0.0500	0.100	0.150
delta-BHC	BNB	Lin1	292387	586908	3487259	7068251	11013886	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor	BNB	Lin1	337190	682232	3571458	7147888	10426368	0.00500	0.0100	0.0500	0.100	0.150
Aldrin	BNB	Lin1	312777	614455	3376714	6850427	10167600	0.00500	0.0100	0.0500	0.100	0.150
Heptachlor epoxide	BNB	Lin1	283348	547843	2897091	5763735	8513113	0.00500	0.0100	0.0500	0.100	0.150
gamma-Chlordane	BNB	Lin1	302570	570666	3177103	6559205	9723049	0.00500	0.0100	0.0500	0.100	0.150
alpha-Chlordane	BNB	Lin1	292719	548390	2984592	6144059	9190000	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan I	BNB	Lin1	252075	500011	2604114	5219005	7681695	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDE	BNB	Lin1	288415	518457	2934040	6075035	9047628	0.00500	0.0100	0.0500	0.100	0.150
Dieldrin	BNB	Lin1	280608	560214	3049824	6169776	9124917	0.00500	0.0100	0.0500	0.100	0.150
Endrin	BNB	Lin1	272218	522695	2786269	5664882	8411255	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDD	BNB	Lin1	228387	423984	2361246	4927864	7412973	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan II	BNB	Lin1	230224	453816	2426027	4936178	7405089	0.00500	0.0100	0.0500	0.100	0.150
4,4'-DDT	BNB	Lin1	202305	403149	2368506	5036052	7525633	0.00500	0.0100	0.0500	0.100	0.150
Endrin aldehyde	BNB	Lin1	197593	371517	1958282	3948133	5839452	0.00500	0.0100	0.0500	0.100	0.150
Endosulfan sulfate	BNB	Lin1	208253	408416	2220947	4568939	6800281	0.00500	0.0100	0.0500	0.100	0.150
Methoxychlor	BNB	Lin1	101959	192767	1076975	2276385	3451958	0.00500	0.0100	0.0500	0.100	0.150
Endrin ketone	BNB	Lin1	222978	448354	2427719	5001914	7479098	0.00500	0.0100	0.0500	0.100	0.150
Tetrachloro-m-xylene	BNB	Lin1	241317	480301	2613930	5370444	8039754	0.00500	0.0100	0.0500	0.100	0.150
DCB Decachlorobiphenyl	BNB	Lin1	178948	336779	1697519	3522010	5324605	0.00500	0.0100	0.0500	0.100	0.150

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17089.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 14-Aug-2017 07:35:25 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 14-Aug-2017 10:14:38 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK026

First Level Reviewer: NearyM Date: 14-Aug-2017 08:19:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.117	2.117	0.000	59408224	0.5000	0.5000	
2	2.340	2.340	0.000	23970048	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.667	0.000	14796665	0.1500	0.1579	
2	3.083	3.083	0.000	8039754	0.1500	0.1503	
						RPD = 4.93	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.983	0.000	13600390	0.1500	0.1488	
2	9.143	9.143	0.000	5324605	0.1500	0.1515	
						RPD = 1.79	
4 alpha-BHC							
1	3.100	3.097	0.003	37066752	0.1500	0.1526	
2	3.650	3.650	0.000	13780993	0.1500	0.1503	
						RPD = 1.49	
6 gamma-BHC (Lindane)							
1	3.363	3.360	0.003	32470567	0.1500	0.1525	
2	4.013	4.010	0.003	11766574	0.1500	0.1530	
						RPD = 0.33	
7 beta-BHC							
1	3.433	3.433	0.000	12567110	0.1500	0.1573	
2	4.087	4.087	0.000	4807799	0.1500	0.1531	
						RPD = 2.70	
8 delta-BHC							
1	3.593	3.593	0.000	30560766	0.1500	0.1545	
2	4.407	4.407	0.000	11013886	0.1500	0.1527	
						RPD = 1.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.793	3.790	0.003	26600394	0.1500	0.1480	
2	4.493	4.493	0.000	10426368	0.1500	0.1480	
						RPD = 0.03	
10 Aldrin							
1	4.080	4.077	0.003	27766473	0.1500	0.1496	
2	4.850	4.850	0.000	10167600	0.1500	0.1495	
						RPD = 0.06	
13 Heptachlor epoxide							
1	4.677	4.677	0.000	22582255	0.1500	0.1486	
2	5.460	5.460	0.000	8513113	0.1500	0.1488	
						RPD = 0.15	
14 gamma-Chlordane							
1	4.803	4.803	0.000	27965778	0.1500	0.1520	
2	5.663	5.663	0.000	9723049	0.1500	0.1498	
						RPD = 1.47	
15 alpha-Chlordane							
1	4.940	4.940	0.000	25983339	0.1500	0.1526	
2	5.820	5.817	0.003	9190000	0.1500	0.1504	
						RPD = 1.39	
16 4,4'-DDE							
1	5.023	5.023	0.000	25328898	0.1500	0.1516	
2	5.980	5.980	0.000	9047628	0.1500	0.1503	
						RPD = 0.89	
18 Endosulfan I							
1	5.077	5.077	0.000	19607879	0.1500	0.1472	
2	5.887	5.887	0.000	7681695	0.1500	0.1487	
						RPD = 1.06	
19 Dieldrin							
1	5.323	5.323	0.000	22218588	0.1500	0.1503	
2	6.180	6.177	0.003	9124917	0.1500	0.1492	
						RPD = 0.74	
20 Endrin							
1	5.560	5.560	0.000	21665930	0.1500	0.1480	
2	6.503	6.503	0.000	8411255	0.1500	0.1497	
						RPD = 1.08	
22 4,4'-DDD							
1	5.633	5.637	-0.004	19865619	0.1500	0.1487	
2	6.590	6.590	0.000	7412973	0.1500	0.1511	
						RPD = 1.62	
23 Endosulfan II							
1	5.790	5.787	0.003	18547015	0.1500	0.1472	
2	6.720	6.720	0.000	7405089	0.1500	0.1503	
						RPD = 2.10	
26 4,4'-DDT							
1	5.923	5.927	-0.004	21708391	0.1500	0.1511	
2	6.920	6.920	0.000	7525633	0.1500	0.1507	
						RPD = 0.23	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.217	0.000	15142476	0.1500	0.1487	
2	7.067	7.067	0.000	5839452	0.1500	0.1493	
						RPD = 0.36	
29 Methoxychlor							
1	6.433	6.433	0.000	9074833	0.1500	0.1496	
2	7.613	7.610	0.003	3451958	0.1500	0.1519	
						RPD = 1.52	
30 Endosulfan sulfate							
1	6.663	6.663	0.000	17536719	0.1500	0.1492	
2	7.353	7.353	0.000	6800281	0.1500	0.1500	
						RPD = 0.49	
31 Endrin ketone							
1	6.950	6.950	0.000	19079699	0.1500	0.1482	
2	7.913	7.913	0.000	7479098	0.1500	0.1503	
						RPD = 1.38	
S 35 BHC, Total							
1						0.6169	
2						0.6092	
						RPD = 1.27	

Reagents:

PEST_CAL_.15_00025	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

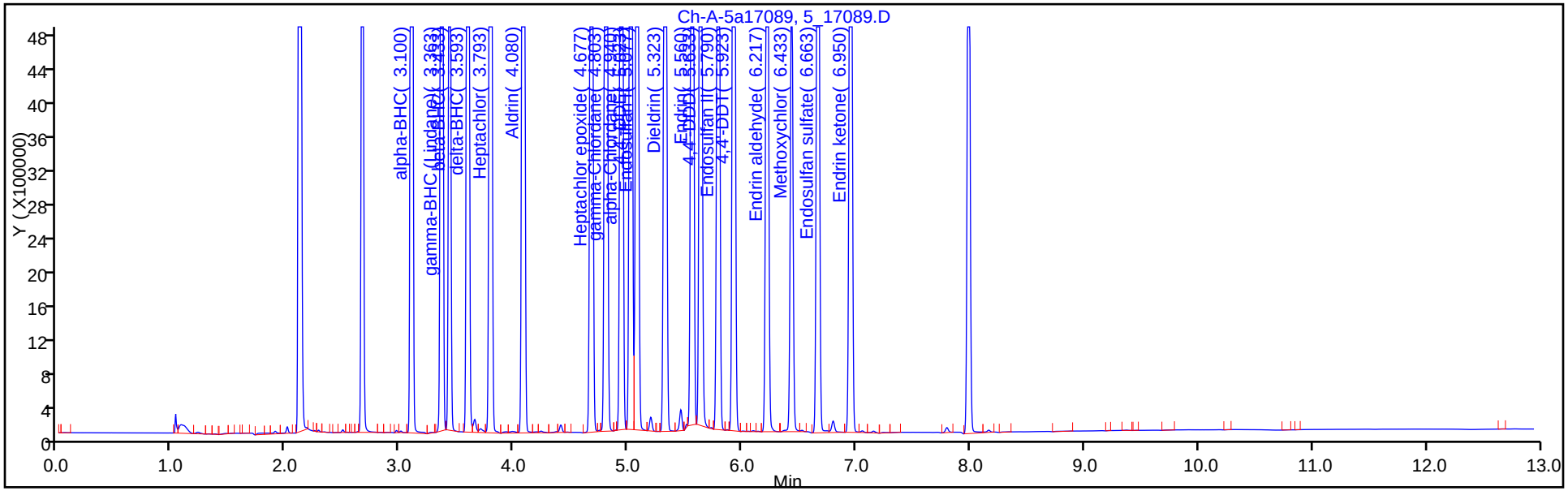
Report Date: 14-Aug-2017 10:14:39 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

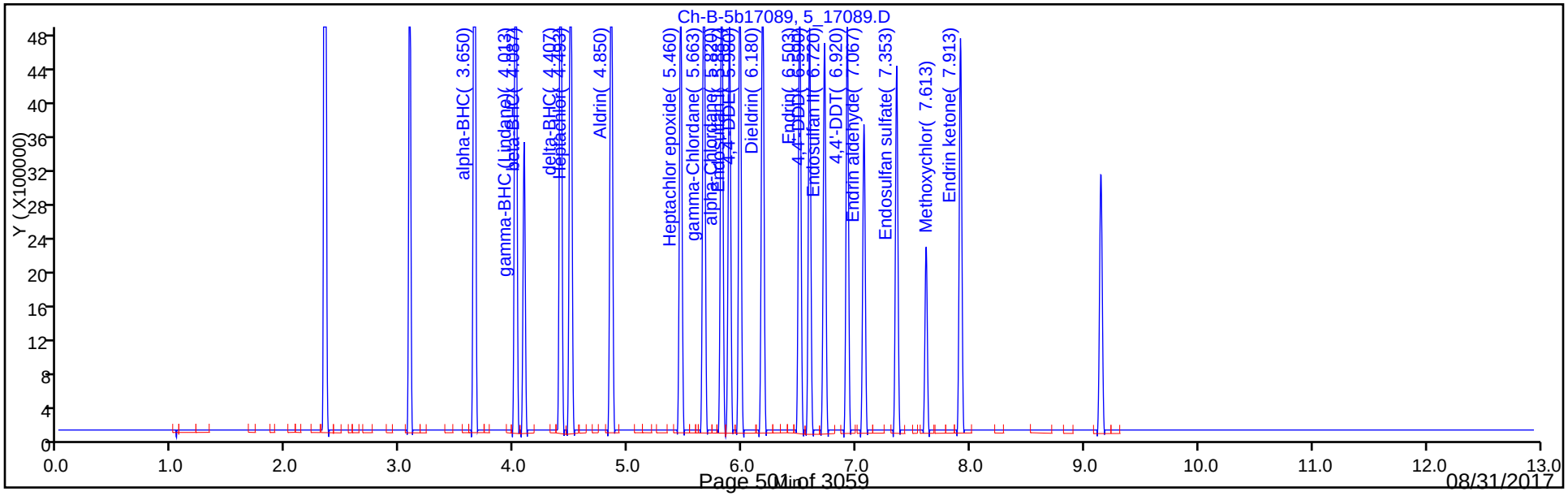
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17089.D

Injection Date:	14-Aug-2017 07:35:25	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std1			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17090.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 14-Aug-2017 07:55:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 14-Aug-2017 10:14:41 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.117	2.117	0.000	60454683	0.5000	0.5000	
2	2.337	2.337	0.000	24032851	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.667	0.000	8915010	0.1000	0.0941	
2	3.080	3.080	0.000	5370444	0.1000	0.1005	
						RPD = 6.51	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.983	0.000	9420719	0.1000	0.1013	
2	9.143	9.143	0.000	3522010	0.1000	0.1001	
						RPD = 1.14	
4 alpha-BHC							
1	3.097	3.097	0.000	24461005	0.1000	0.0994	
2	3.650	3.650	0.000	9204309	0.1000	0.1006	
						RPD = 1.15	
6 gamma-BHC (Lindane)							
1	3.360	3.360	0.000	21418063	0.1000	0.0993	
2	4.010	4.010	0.000	7544104	0.1000	0.0983	
						RPD = 0.97	
7 beta-BHC							
1	3.430	3.430	0.000	7658114	0.1000	0.0946	
2	4.083	4.083	0.000	3086277	0.1000	0.0984	
						RPD = 3.96	
8 delta-BHC							
1	3.590	3.590	0.000	19387134	0.1000	0.0969	
2	4.403	4.403	0.000	7068251	0.1000	0.0983	
						RPD = 1.44	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.790	3.790	0.000	18422647	0.1000	0.1006	
2	4.493	4.493	0.000	7147888	0.1000	0.1013	
						RPD = 0.72	
10 Aldrin							
1	4.077	4.077	0.000	18888167	0.1000	0.1001	
2	4.850	4.850	0.000	6850427	0.1000	0.1007	
						RPD = 0.61	
13 Heptachlor epoxide							
1	4.673	4.673	0.000	15555545	0.1000	0.1003	
2	5.460	5.460	0.000	5763735	0.1000	0.1006	
						RPD = 0.31	
14 gamma-Chlordane							
1	4.803	4.803	0.000	18626263	0.1000	0.0997	
2	5.663	5.663	0.000	6559205	0.1000	0.1011	
						RPD = 1.41	
15 alpha-Chlordane							
1	4.937	4.937	0.000	17165827	0.1000	0.0992	
2	5.817	5.817	0.000	6144059	0.1000	0.1006	
						RPD = 1.34	
16 4,4'-DDE							
1	5.020	5.020	0.000	16926900	0.1000	0.0997	
2	5.977	5.977	0.000	6075035	0.1000	0.1009	
						RPD = 1.21	
18 Endosulfan I							
1	5.073	5.073	0.000	13791142	0.1000	0.1015	
2	5.887	5.887	0.000	5219005	0.1000	0.1009	
						RPD = 0.58	
19 Dieldrin							
1	5.320	5.320	0.000	14898081	0.1000	0.0991	
2	6.177	6.177	0.000	6169776	0.1000	0.1008	
						RPD = 1.77	
20 Endrin							
1	5.560	5.560	0.000	14992134	0.1000	0.1006	
2	6.503	6.503	0.000	5664882	0.1000	0.1007	
						RPD = 0.15	
22 4,4'-DDD							
1	5.633	5.633	0.000	13775203	0.1000	0.1015	
2	6.590	6.590	0.000	4927864	0.1000	0.1005	
						RPD = 0.99	
23 Endosulfan II							
1	5.787	5.787	0.000	13038167	0.1000	0.1017	
2	6.720	6.720	0.000	4936178	0.1000	0.1002	
						RPD = 1.42	
26 4,4'-DDT							
1	5.923	5.923	0.000	14591949	0.1000	0.1002	
2	6.920	6.920	0.000	5036052	0.1000	0.1011	
						RPD = 0.97	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.217	0.000	10390669	0.1000	0.1001	
2	7.067	7.067	0.000	3948133	0.1000	0.1008	
						RPD = 0.65	
29 Methoxychlor							
1	6.430	6.430	0.000	6185913	0.1000	0.1002	
2	7.610	7.610	0.000	2276385	0.1000	0.1003	
						RPD = 0.10	
30 Endosulfan sulfate							
1	6.660	6.660	0.000	11980436	0.1000	0.1001	
2	7.353	7.353	0.000	4568939	0.1000	0.1008	
						RPD = 0.65	
31 Endrin ketone							
1	6.950	6.950	0.000	13248131	0.1000	0.1011	
2	7.913	7.913	0.000	5001914	0.1000	0.1006	
						RPD = 0.56	

Reagents:

PEST_CAL_.10_00027	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

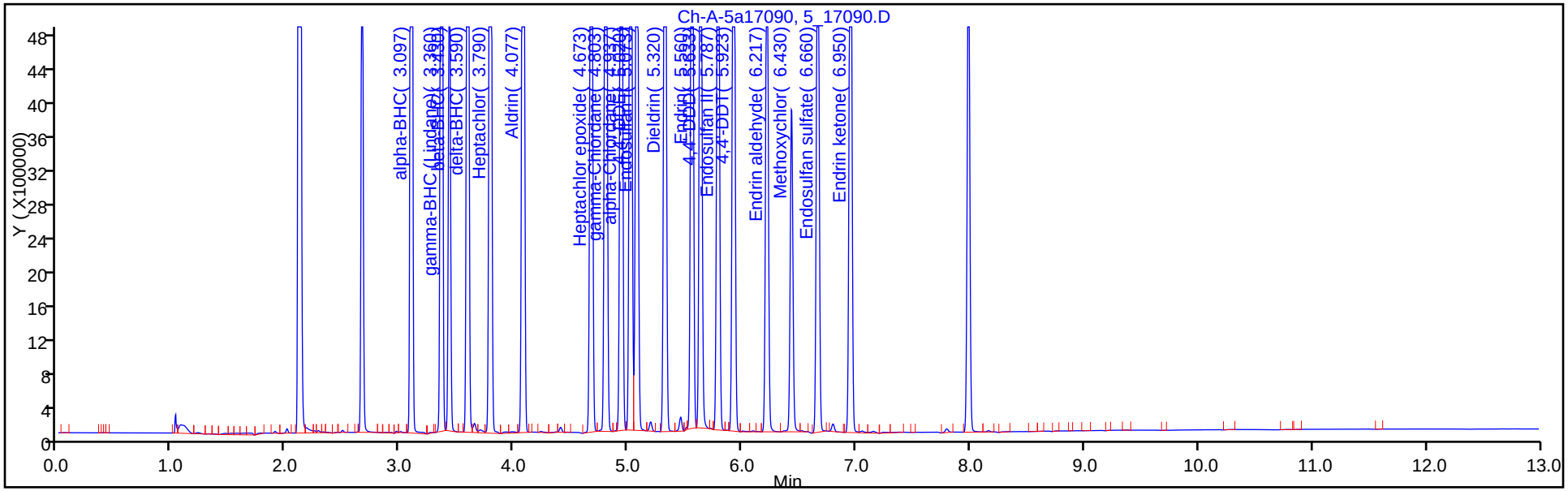
Report Date: 14-Aug-2017 10:14:42 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

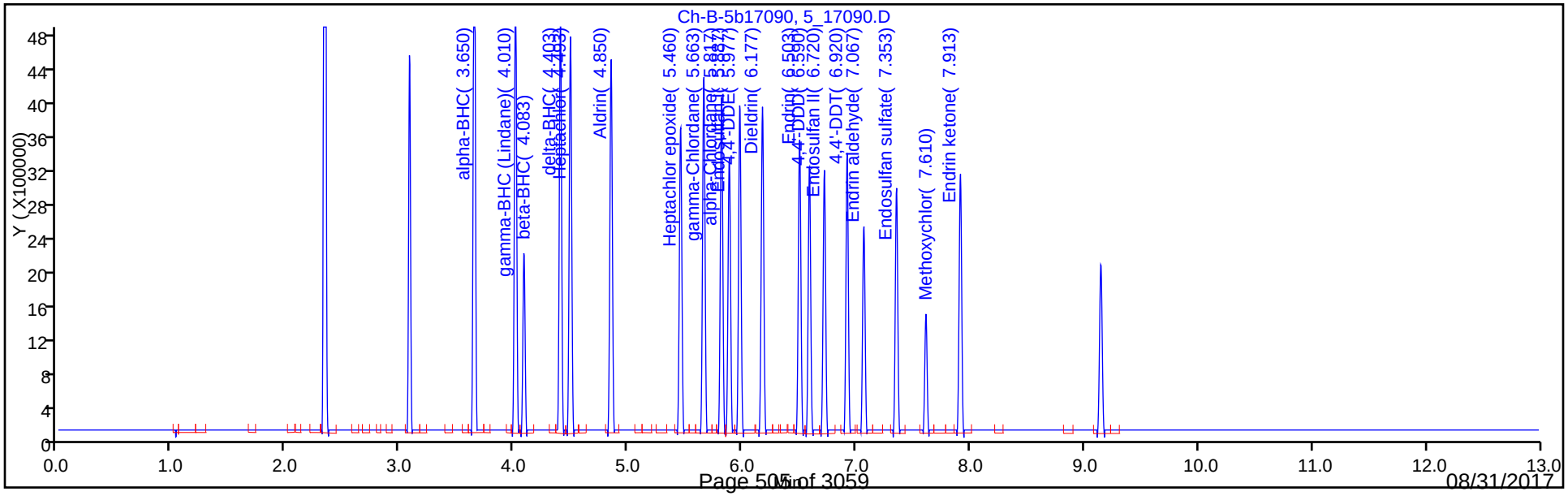
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17090.D

Injection Date:	14-Aug-2017 07:55:00	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std2			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17091.D
Lims ID: std3
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 14-Aug-2017 08:14:34 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 14-Aug-2017 10:14:43 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK026

First Level Reviewer: NearyM Date: 14-Aug-2017 08:53:20

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.117	2.117	0.000	60010752	0.5000	0.5000	
2	2.340	2.340	0.000	24043778	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.667	0.000	4449443	0.0500	0.0481	
2	3.083	3.083	0.000	2613930	0.0500	0.0494	
						RPD = 2.58	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.983	0.000	4646023	0.0500	0.0502	
2	9.143	9.143	0.000	1697519	0.0500	0.0485	
						RPD = 3.61	
4 alpha-BHC							
1	3.097	3.097	0.000	11570551	0.0500	0.0481	
2	3.650	3.650	0.000	4446126	0.0500	0.0492	
						RPD = 2.33	
6 gamma-BHC (Lindane)							
1	3.360	3.360	0.000	10200416	0.0500	0.0483	
2	4.010	4.010	0.000	3684901	0.0500	0.0487	
						RPD = 0.85	
7 beta-BHC							
1	3.433	3.433	0.000	3824936	0.0500	0.0481	
2	4.087	4.087	0.000	1509591	0.0500	0.0486	
						RPD = 1.16	
8 delta-BHC							
1	3.593	3.593	0.000	9519583	0.0500	0.0487	
2	4.407	4.407	0.000	3487259	0.0500	0.0493	
						RPD = 1.20	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.790	3.790	0.000	9401818	0.0500	0.0516	
2	4.493	4.493	0.000	3571458	0.0500	0.0509	
						RPD = 1.49	
10 Aldrin							
1	4.077	4.077	0.000	9427353	0.0500	0.0505	
2	4.850	4.850	0.000	3376714	0.0500	0.0501	
						RPD = 0.96	
13 Heptachlor epoxide							
1	4.677	4.677	0.000	7934006	0.0500	0.0511	
2	5.460	5.460	0.000	2897091	0.0500	0.0508	
						RPD = 0.75	
14 gamma-Chlordane							
1	4.803	4.803	0.000	8933708	0.0500	0.0484	
2	5.663	5.663	0.000	3177103	0.0500	0.0494	
						RPD = 2.03	
15 alpha-Chlordane							
1	4.940	4.940	0.000	8239939	0.0500	0.0483	
2	5.817	5.817	0.000	2984592	0.0500	0.0492	
						RPD = 1.95	
16 4,4'-DDE							
1	5.023	5.023	0.000	8217331	0.0500	0.0490	
2	5.980	5.980	0.000	2934040	0.0500	0.0492	
						RPD = 0.39	
18 Endosulfan I							
1	5.077	5.077	0.000	6968617	0.0500	0.0513	
2	5.887	5.887	0.000	2604114	0.0500	0.0505	
						RPD = 1.56	
19 Dieldrin							
1	5.323	5.323	0.000	7588603	0.0500	0.0509	
2	6.177	6.177	0.000	3049824	0.0500	0.0502	
						RPD = 1.36	
20 Endrin							
1	5.560	5.560	0.000	7637540	0.0500	0.0515	
2	6.503	6.503	0.000	2786269	0.0500	0.0498	
						RPD = 3.25	
22 4,4'-DDD							
1	5.637	5.637	0.000	6666406	0.0500	0.0498	
2	6.590	6.590	0.000	2361246	0.0500	0.0487	
						RPD = 2.35	
23 Endosulfan II							
1	5.787	5.787	0.000	6539453	0.0500	0.0513	
2	6.720	6.720	0.000	2426027	0.0500	0.0496	
						RPD = 3.28	
26 4,4'-DDT							
1	5.927	5.927	0.000	7000435	0.0500	0.0490	
2	6.920	6.920	0.000	2368506	0.0500	0.0484	
						RPD = 1.19	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.217	0.000	5309044	0.0500	0.0513	
2	7.067	7.067	0.000	1958282	0.0500	0.0502	
						RPD = 2.25	
29 Methoxychlor							
1	6.433	6.433	0.000	3084683	0.0500	0.0504	
2	7.610	7.610	0.000	1076975	0.0500	0.0481	
						RPD = 4.66	
30 Endosulfan sulfate							
1	6.663	6.663	0.000	6035876	0.0500	0.0508	
2	7.353	7.353	0.000	2220947	0.0500	0.0494	
						RPD = 2.64	
31 Endrin ketone							
1	6.950	6.950	0.000	6609928	0.0500	0.0508	
2	7.913	7.913	0.000	2427719	0.0500	0.0493	
						RPD = 3.07	

Reagents:

PEST_CCV_.05_00240	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

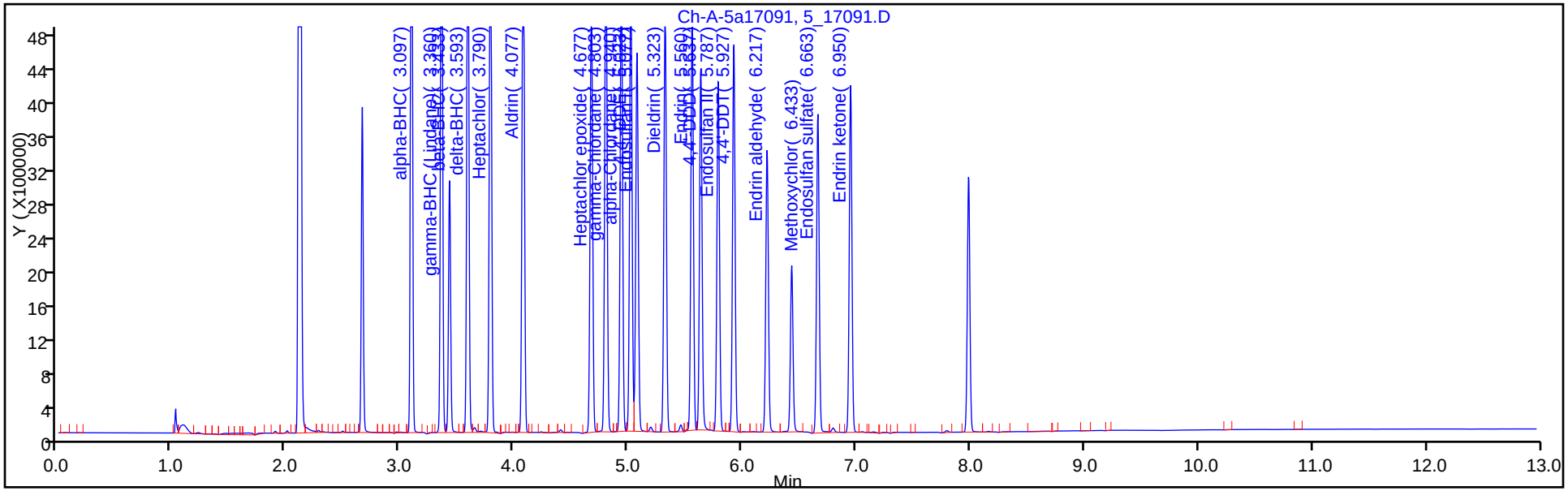
Report Date: 14-Aug-2017 10:14:44 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

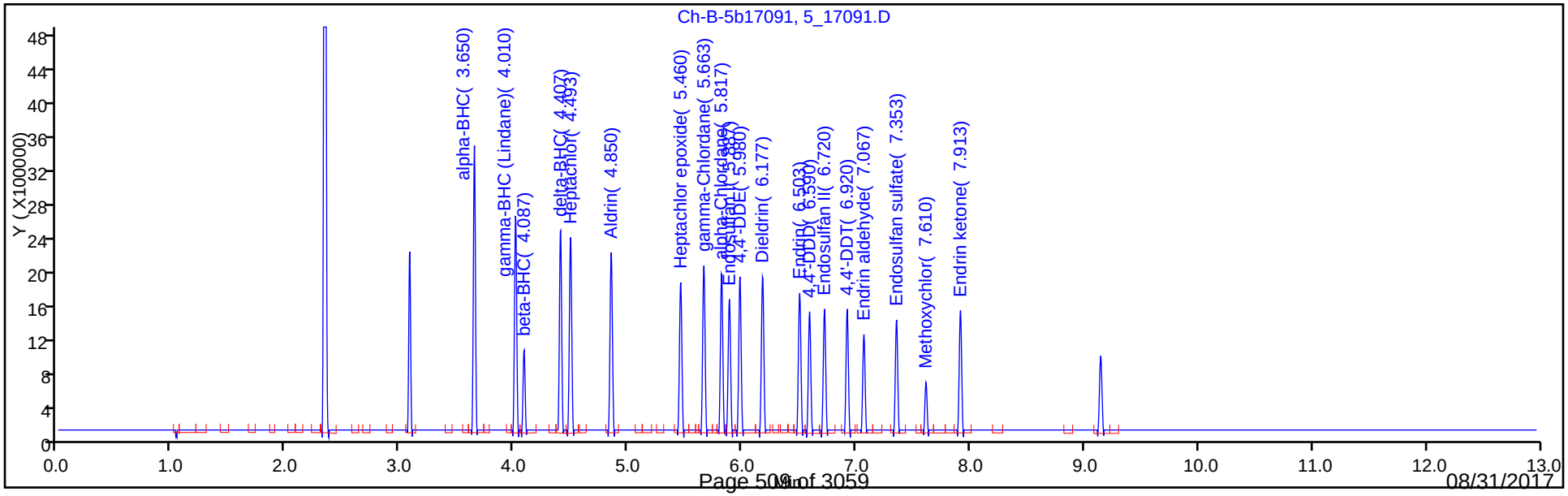
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17091.D

Injection Date:	14-Aug-2017 08:14:34	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std3			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17092.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 14-Aug-2017 08:34:14 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 14-Aug-2017 10:14:46 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.117	2.117	0.000	61967695	0.5000	0.5000	
2	2.337	2.340	-0.003	24842050	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.667	0.000	750617	0.0100	0.009180	
2	3.080	3.083	-0.003	480301	0.0100	0.009575	
						RPD = 4.22	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.983	0.000	915049	0.0100	0.009459	
2	9.143	9.143	0.000	336779	0.0100	0.009652	
						RPD = 2.03	
4 alpha-BHC							
1	3.097	3.097	0.000	2076555	0.0100	0.009483	
2	3.647	3.650	-0.003	797778	0.0100	0.009613	
						RPD = 1.36	
6 gamma-BHC (Lindane)							
1	3.360	3.360	0.000	1849179	0.0100	0.009511	
2	4.010	4.010	0.000	662863	0.0100	0.009597	
						RPD = 0.90	
7 beta-BHC							
1	3.430	3.433	-0.003	731151	0.0100	0.009675	
2	4.083	4.087	-0.004	278387	0.0100	0.009505	
						RPD = 1.77	
8 delta-BHC							
1	3.590	3.593	-0.003	1672311	0.0100	0.009520	
2	4.403	4.407	-0.004	586908	0.0100	0.009342	
						RPD = 1.88	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.790	3.790	0.000	1896475	0.0100	0.009890	
2	4.490	4.493	-0.003	682232	0.0100	0.009787	
						RPD = 1.05	
10 Aldrin							
1	4.077	4.077	0.000	1789599	0.0100	0.009631	
2	4.847	4.850	-0.003	614455	0.0100	0.009522	
						RPD = 1.14	
13 Heptachlor epoxide							
1	4.673	4.677	-0.004	1702219	0.0100	0.0100	
2	5.457	5.460	-0.003	547843	0.0100	0.009624	
						RPD = 3.51	
14 gamma-Chlordane							
1	4.803	4.803	0.000	1737024	0.0100	0.009536	
2	5.660	5.663	-0.003	570666	0.0100	0.009350	
						RPD = 1.97	
15 alpha-Chlordane							
1	4.937	4.940	-0.003	1605363	0.0100	0.009581	
2	5.817	5.817	0.000	548390	0.0100	0.009403	
						RPD = 1.87	
16 4,4'-DDE							
1	5.020	5.023	-0.003	1531322	0.0100	0.009217	
2	5.977	5.980	-0.003	518457	0.0100	0.009163	
						RPD = 0.58	
18 Endosulfan I							
1	5.073	5.077	-0.004	1506047	0.0100	0.0102	
2	5.883	5.887	-0.004	500011	0.0100	0.009744	
						RPD = 4.75	
19 Dieldrin							
1	5.320	5.323	-0.003	1450884	0.0100	0.009579	
2	6.173	6.177	-0.004	560214	0.0100	0.009600	
						RPD = 0.22	
20 Endrin							
1	5.557	5.560	-0.003	1565959	0.0100	0.0100	
2	6.500	6.503	-0.003	522695	0.0100	0.009553	
						RPD = 4.56	
22 4,4'-DDD							
1	5.637	5.637	0.000	1308073	0.0100	0.0100	
2	6.590	6.590	0.000	423984	0.0100	0.009296	
						RPD = 7.31	
23 Endosulfan II							
1	5.787	5.787	0.000	1325452	0.0100	0.0099	
2	6.720	6.720	0.000	453816	0.0100	0.009618	
						RPD = 3.22	
26 4,4'-DDT							
1	5.923	5.927	-0.004	1260682	0.0100	0.009441	
2	6.917	6.920	-0.003	403149	0.0100	0.009310	
						RPD = 1.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.217	0.000	1085887	0.0100	0.009779	
2	7.063	7.067	-0.004	371517	0.0100	0.009535	
						RPD = 2.52	
29 Methoxychlor							
1	6.433	6.433	0.000	619074	0.0100	0.009826	
2	7.610	7.610	0.000	192767	0.0100	0.009328	
						RPD = 5.21	
30 Endosulfan sulfate							
1	6.660	6.663	-0.003	1220648	0.0100	0.009830	
2	7.350	7.353	-0.003	408416	0.0100	0.009536	
						RPD = 3.04	
31 Endrin ketone							
1	6.947	6.950	-0.003	1308514	0.0100	0.009740	
2	7.910	7.913	-0.003	448354	0.0100	0.009616	
						RPD = 1.28	
S 35 BHC, Total							
1						0.0382	
2						0.0381	
						RPD = 0.34	

Reagents:

pest_cal_.01_00018	Amount Added: 1.00	Units: mL		
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent	
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent	

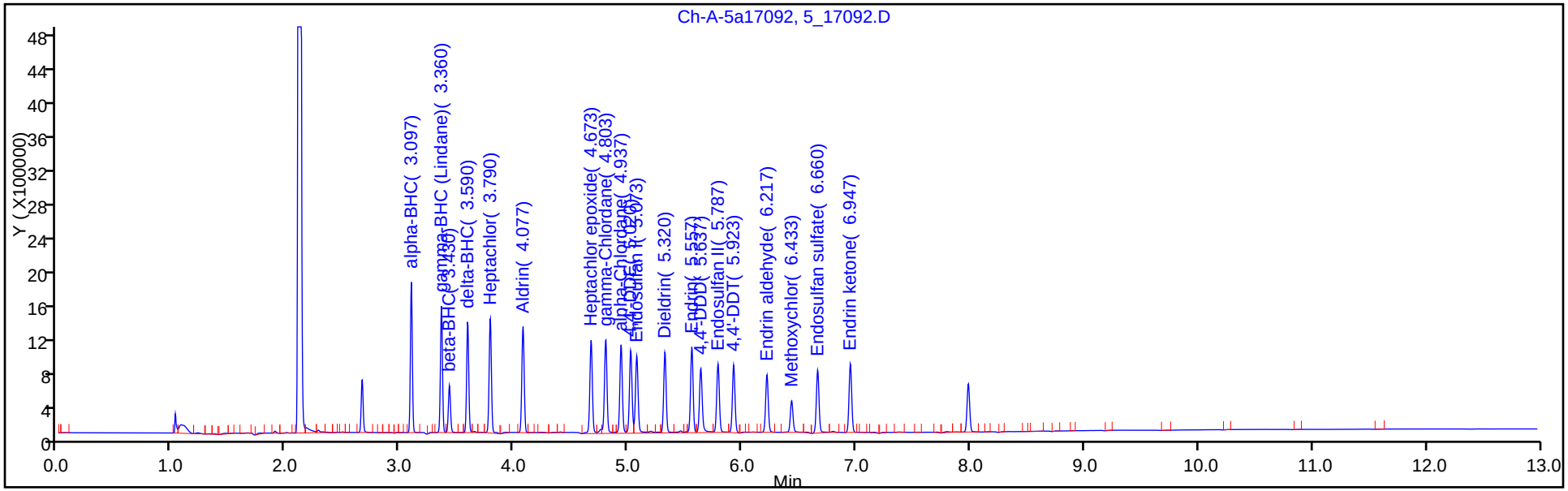
Report Date: 14-Aug-2017 10:14:46 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

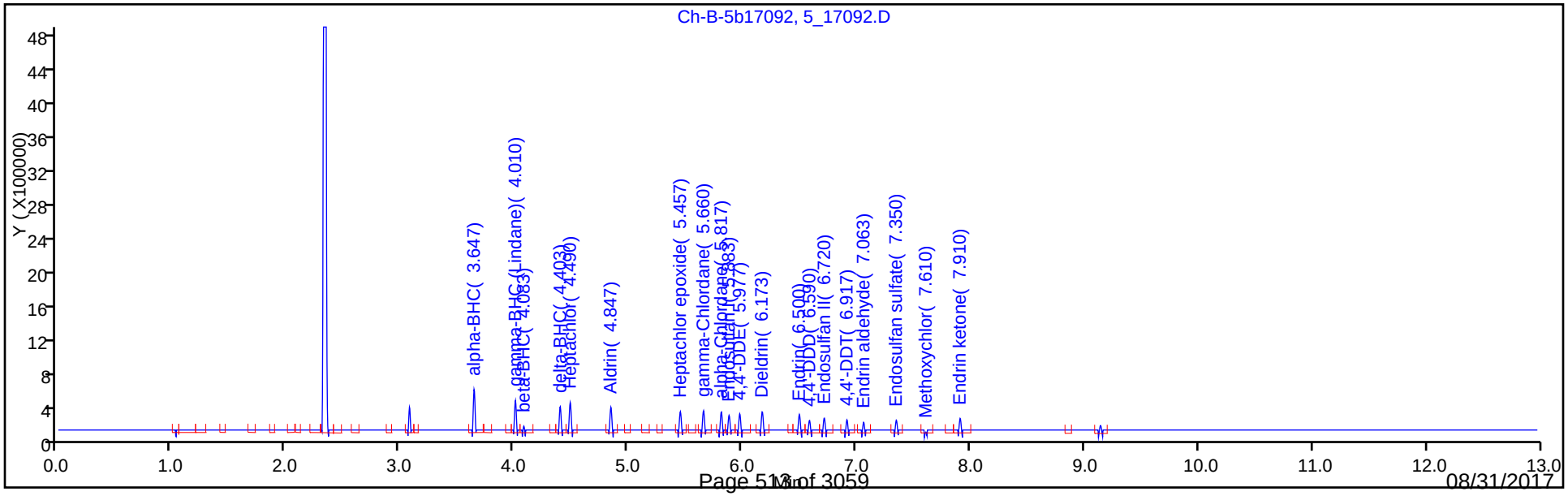
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17092.D

Injection Date:	14-Aug-2017 08:34:14	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std4			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 14-Aug-2017 08:53:53 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 14-Aug-2017 10:14:48 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK026

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.117	2.117	0.000	62744921	0.5000	0.5000	
2	2.337	2.340	-0.003	25141989	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.667	0.000	404868	0.005000	0.005627	
2	3.080	3.083	-0.003	241317	0.005000	0.005240	
						RPD = 7.12	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.983	0.000	518211	0.005000	0.005224	
2	9.143	9.143	0.000	178948	0.005000	0.005273	
						RPD = 0.93	
4 alpha-BHC							
1	3.097	3.097	0.000	1043365	0.005000	0.005391	
2	3.650	3.650	0.000	382367	0.005000	0.005230	
						RPD = 3.03	
6 gamma-BHC (Lindane)							
1	3.360	3.360	0.000	932409	0.005000	0.005365	
2	4.010	4.010	0.000	322192	0.005000	0.005312	
						RPD = 1.00	
7 beta-BHC							
1	3.430	3.433	-0.003	376082	0.005000	0.005384	
2	4.083	4.087	-0.004	144382	0.005000	0.005362	
						RPD = 0.42	
8 delta-BHC							
1	3.593	3.593	0.000	819354	0.005000	0.005376	
2	4.403	4.407	-0.004	292387	0.005000	0.005397	
						RPD = 0.39	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.790	3.790	0.000	980183	0.005000	0.004931	
2	4.493	4.493	0.000	337190	0.005000	0.005021	
						RPD = 1.80	
10 Aldrin							
1	4.077	4.077	0.000	928696	0.005000	0.005138	
2	4.850	4.850	0.000	312777	0.005000	0.005214	
						RPD = 1.46	
13 Heptachlor epoxide							
1	4.673	4.677	-0.004	919605	0.005000	0.004930	
2	5.457	5.460	-0.003	283348	0.005000	0.005117	
						RPD = 3.72	
14 gamma-Chlordane							
1	4.803	4.803	0.000	940517	0.005000	0.005338	
2	5.663	5.663	0.000	302570	0.005000	0.005335	
						RPD = 0.06	
15 alpha-Chlordane							
1	4.940	4.940	0.000	858547	0.005000	0.005333	
2	5.817	5.817	0.000	292719	0.005000	0.005331	
						RPD = 0.05	
16 4,4'-DDE							
1	5.023	5.023	0.000	884227	0.005000	0.005452	
2	5.980	5.980	0.000	288415	0.005000	0.005444	
						RPD = 0.15	
18 Endosulfan I							
1	5.077	5.077	0.000	762596	0.005000	0.004776	
2	5.887	5.887	0.000	252075	0.005000	0.005070	
						RPD = 5.97	
19 Dieldrin							
1	5.323	5.323	0.000	777385	0.005000	0.005155	
2	6.177	6.177	0.000	280608	0.005000	0.005162	
						RPD = 0.13	
20 Endrin							
1	5.560	5.560	0.000	797148	0.005000	0.004888	
2	6.503	6.503	0.000	272218	0.005000	0.005215	
						RPD = 6.46	
22 4,4'-DDD							
1	5.637	5.637	0.000	613326	0.005000	0.004985	
2	6.590	6.590	0.000	228387	0.005000	0.005422	
						RPD = 8.41	
23 Endosulfan II							
1	5.790	5.787	0.003	675210	0.005000	0.004916	
2	6.720	6.720	0.000	230224	0.005000	0.005207	
						RPD = 5.75	
26 4,4'-DDT							
1	5.927	5.927	0.000	649254	0.005000	0.005338	
2	6.920	6.920	0.000	202305	0.005000	0.005424	
						RPD = 1.60	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.217	0.000	588845	0.005000	0.005014	
2	7.067	7.067	0.000	197593	0.005000	0.005198	
						RPD = 3.62	
29 Methoxychlor							
1	6.433	6.433	0.000	321010	0.005000	0.005056	
2	7.610	7.610	0.000	101959	0.005000	0.005453	
						RPD = 7.56	
30 Endosulfan sulfate							
1	6.663	6.663	0.000	640428	0.005000	0.005027	
2	7.353	7.353	0.000	208253	0.005000	0.005249	
						RPD = 4.32	
31 Endrin ketone							
1	6.950	6.950	0.000	687057	0.005000	0.005048	
2	7.913	7.913	0.000	222978	0.005000	0.005224	
						RPD = 3.42	
S 35 BHC, Total							
1						0.0215	
2						0.0213	
						RPD = 1.01	

Reagents:

pest_cal_.005_00018	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

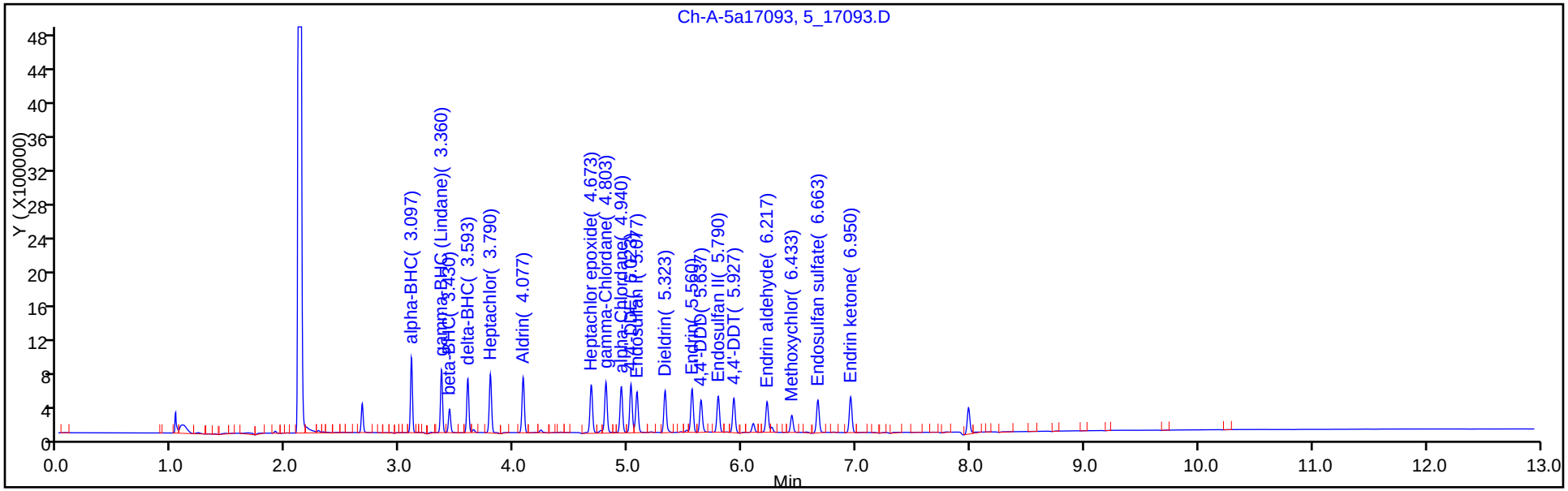
Report Date: 14-Aug-2017 10:14:49 Chrom Revision: 2.2 20-Jun-2017 07:42:38

TestAmerica Buffalo

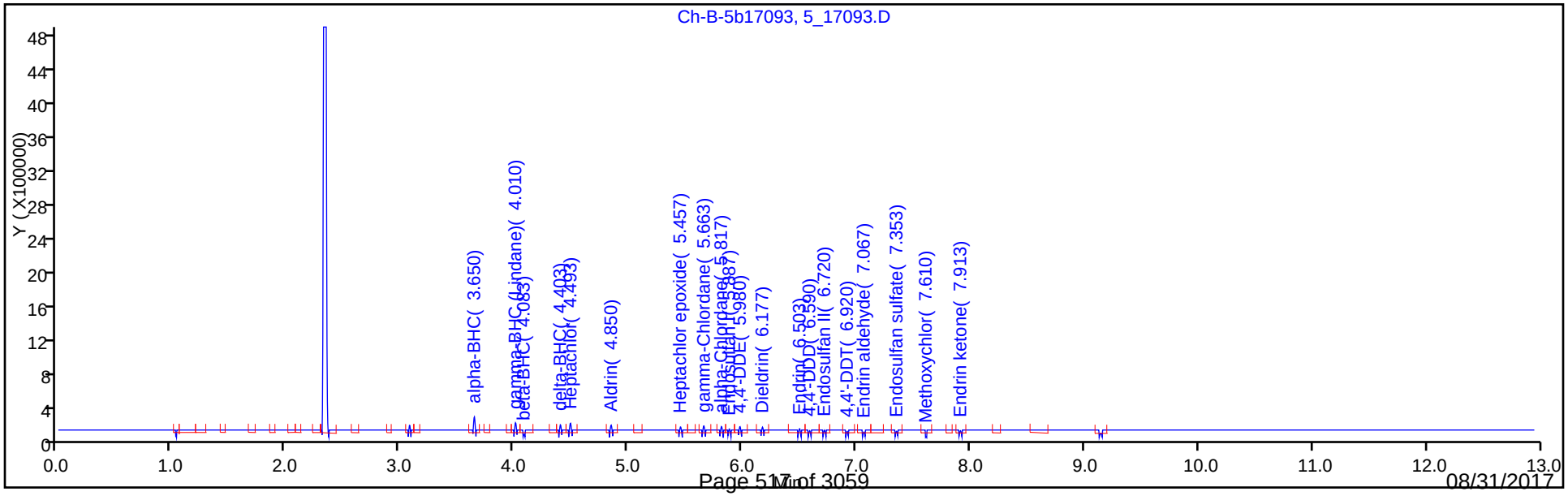
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Injection Date:	14-Aug-2017 08:53:53	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	std5			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID (1): PEM 480-374025/4 Instrument ID (1): HP6890-5

GC Column (1): RTX-CLPI ID: 0.53(mm) Date Analyzed (1): 08/25/2017 13:44

ANALYTE	RT	RESOLUTION (%)
Tetrachloro-m-xylene	2.67	100.0
alpha-BHC	3.10	100.0
gamma-BHC (Lindane)	3.36	100.0
beta-BHC	3.43	100.0
4,4'-DDE	5.02	100.0
Endrin	5.56	100.0
4,4'-DDD	5.63	100.0
4,4'-DDT	5.92	100.0
Endrin aldehyde	6.22	100.0
Methoxychlor	6.43	100.0
Endrin ketone	6.95	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID (2): PEM 480-374025/4 Instrument ID (2): HP6890-5

GC Column (2): RTX-CLPII ID: 0.53(mm) Date Analyzed (2): 08/25/2017 13:44

ANALYTE	RT	RESOLUTION (%)
Tetrachloro-m-xylene	3.08	100.0
alpha-BHC	3.65	100.0
gamma-BHC (Lindane)	4.01	100.0
beta-BHC	4.08	100.0
4,4'-DDE	5.97	100.0
Endrin	6.49	100.0
4,4'-DDD	6.58	100.0
4,4'-DDT	6.91	100.0
Endrin aldehyde	7.06	100.0
Methoxychlor	7.60	100.0
Endrin ketone	7.90	100.0

FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: PEM 480-374025/4 Calibration Date: 08/25/2017 13:44

Instrument ID: HP6890-5 Calib Start Date: 08/14/2017 07:35

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 08/14/2017 08:53

Lab File ID: 5_17221.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	5.56	8207774	3.56	15	
Endrin aldehyde	6.22	119421			
Endrin ketone	6.95	183251			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	5.92	14688164	2.29	15	
4,4'-DDD	5.63	266517			
4,4'-DDE	5.02	78090			

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17221.D
Lims ID: pem
Client ID:
Sample Type: PEM
Inject. Date: 25-Aug-2017 13:44:08 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist:

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:04:48 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.120	2.127	-0.007	67116059	0.5000	0.5000	
2	2.337	2.340	-0.003	26251462	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.673	-0.006	1671182	0.0200	0.0172	
2	3.080	3.083	-0.003	1016423	0.0200	0.0182	
						RPD = 5.65	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.987	-0.004	2221108	0.0200	0.0214	
2	9.133	9.137	-0.004	820955	0.0200	0.0217	
						RPD = 1.47	
4 alpha-BHC							
1	3.100	3.103	-0.003	2272079	0.0100	0.009566	
2	3.647	3.650	-0.003	833473	0.0100	0.009518	
						RPD = 0.50	
6 gamma-BHC (Lindane)							
1	3.363	3.367	-0.004	2080162	0.0100	0.009830	
2	4.007	4.010	-0.003	723452	0.0100	0.009868	
						RPD = 0.38	
7 beta-BHC							
1	3.433	3.437	-0.004	784888	0.0100	0.009597	
2	4.080	4.083	-0.003	285317	0.0100	0.009249	
						RPD = 3.70	
16 4,4'-DDE							
1	5.023	5.023	0.000	78090		0.000868	
2	5.973	5.973	0.000	21600		0.001230	
						RPD = 34.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
20 Endrin							
1	5.557	5.563	-0.006	8207774	0.0500	0.0495	
2	6.493	6.497	-0.004	2987462	0.0500	0.0490	
						RPD = 1.03	
22 4,4'-DDD							
1	5.633	5.637	-0.004	266517		0.002416	
2	6.583	6.583	0.000	88815		0.002656	
						RPD = 9.46	
26 4,4'-DDT							
1	5.923	5.927	-0.004	14688164	0.1000	0.0909	
2	6.910	6.913	-0.003	4992099	0.1000	0.0919	
						RPD = 1.10	
28 Endrin aldehyde							
1	6.217	6.220	-0.003	119421		0.000561	
2	7.057	7.060	-0.003	43693		0.001412	
						RPD = 86.28	
29 Methoxychlor							
1	6.430	6.437	-0.007	14640216	0.2500	0.2136	E
2	7.603	7.603	0.000	6019096	0.2500	0.2411	E
						RPD = 12.10	
31 Endrin ketone							
1	6.947	6.950	-0.003	183251		0.001254	
2	7.903	7.907	-0.004	58575		0.002048	
						RPD = 48.07	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PEST_PEM_00143	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

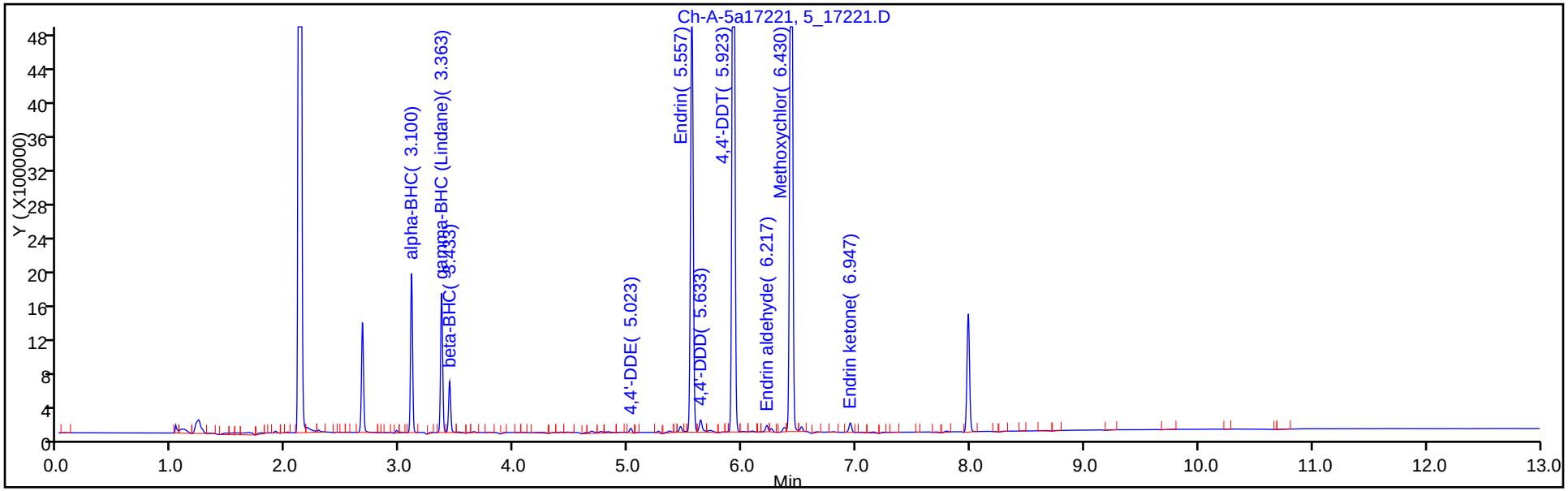
Report Date: 26-Aug-2017 10:08:04 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

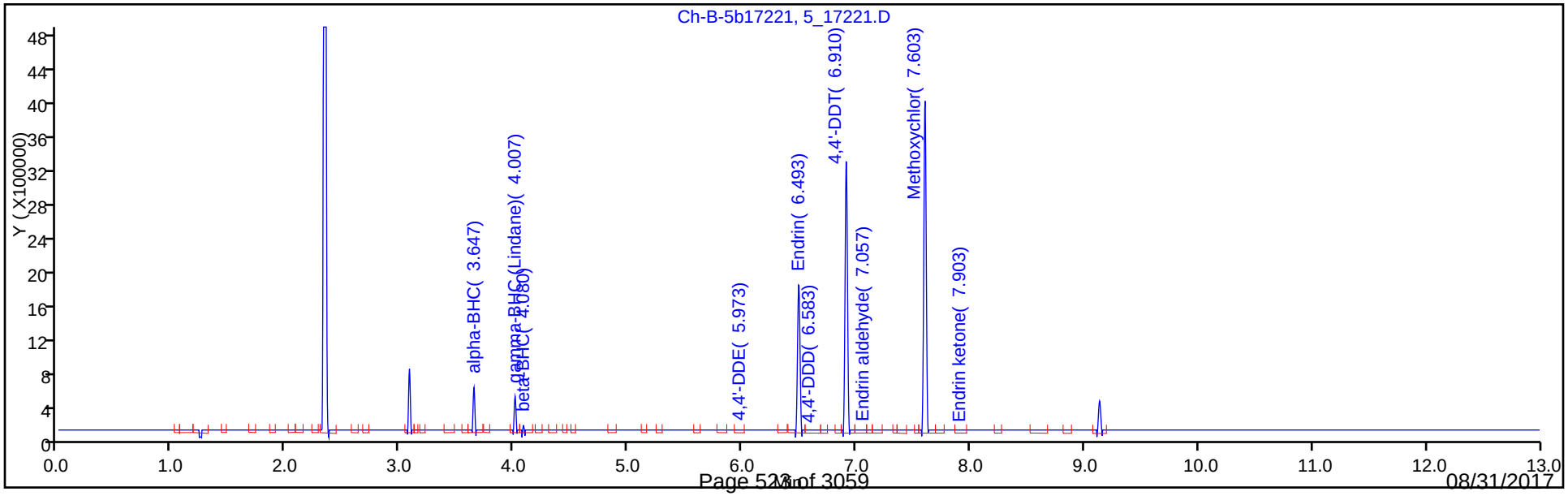
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17221.D

Injection Date:	25-Aug-2017 13:44:08	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	pem			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: PEM 480-374025/4 Calibration Date: 08/25/2017 13:44

Instrument ID: HP6890-5 Calib Start Date: 08/14/2017 07:35

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 08/14/2017 08:53

Lab File ID: 5_17221.D Conc. Units: ng/uL

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	6.49	2987462	3.31	15	
Endrin aldehyde	7.06	43693			
Endrin ketone	7.90	58575			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	6.91	4992099	2.16	15	
4,4'-DDD	6.58	88815			
4,4'-DDE	5.97	21600			

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17221.D
Lims ID: pem
Client ID:
Sample Type: PEM
Inject. Date: 25-Aug-2017 13:44:08 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist:

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:04:48 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.120	2.127	-0.007	67116059	0.5000	0.5000	
2	2.337	2.340	-0.003	26251462	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.673	-0.006	1671182	0.0200	0.0172	
2	3.080	3.083	-0.003	1016423	0.0200	0.0182	
						RPD = 5.65	
$ 2 DCB Decachlorobiphenyl							
1	7.983	7.987	-0.004	2221108	0.0200	0.0214	
2	9.133	9.137	-0.004	820955	0.0200	0.0217	
						RPD = 1.47	
4 alpha-BHC							
1	3.100	3.103	-0.003	2272079	0.0100	0.009566	
2	3.647	3.650	-0.003	833473	0.0100	0.009518	
						RPD = 0.50	
6 gamma-BHC (Lindane)							
1	3.363	3.367	-0.004	2080162	0.0100	0.009830	
2	4.007	4.010	-0.003	723452	0.0100	0.009868	
						RPD = 0.38	
7 beta-BHC							
1	3.433	3.437	-0.004	784888	0.0100	0.009597	
2	4.080	4.083	-0.003	285317	0.0100	0.009249	
						RPD = 3.70	
16 4,4'-DDE							
1	5.023	5.023	0.000	78090		0.000868	
2	5.973	5.973	0.000	21600		0.001230	
						RPD = 34.48	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
20 Endrin							
1	5.557	5.563	-0.006	8207774	0.0500	0.0495	
2	6.493	6.497	-0.004	2987462	0.0500	0.0490	
						RPD = 1.03	
22 4,4'-DDD							
1	5.633	5.637	-0.004	266517		0.002416	
2	6.583	6.583	0.000	88815		0.002656	
						RPD = 9.46	
26 4,4'-DDT							
1	5.923	5.927	-0.004	14688164	0.1000	0.0909	
2	6.910	6.913	-0.003	4992099	0.1000	0.0919	
						RPD = 1.10	
28 Endrin aldehyde							
1	6.217	6.220	-0.003	119421		0.000561	
2	7.057	7.060	-0.003	43693		0.001412	
						RPD = 86.28	
29 Methoxychlor							
1	6.430	6.437	-0.007	14640216	0.2500	0.2136	E
2	7.603	7.603	0.000	6019096	0.2500	0.2411	E
						RPD = 12.10	
31 Endrin ketone							
1	6.947	6.950	-0.003	183251		0.001254	
2	7.903	7.907	-0.004	58575		0.002048	
						RPD = 48.07	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

PEST_PEM_00143	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

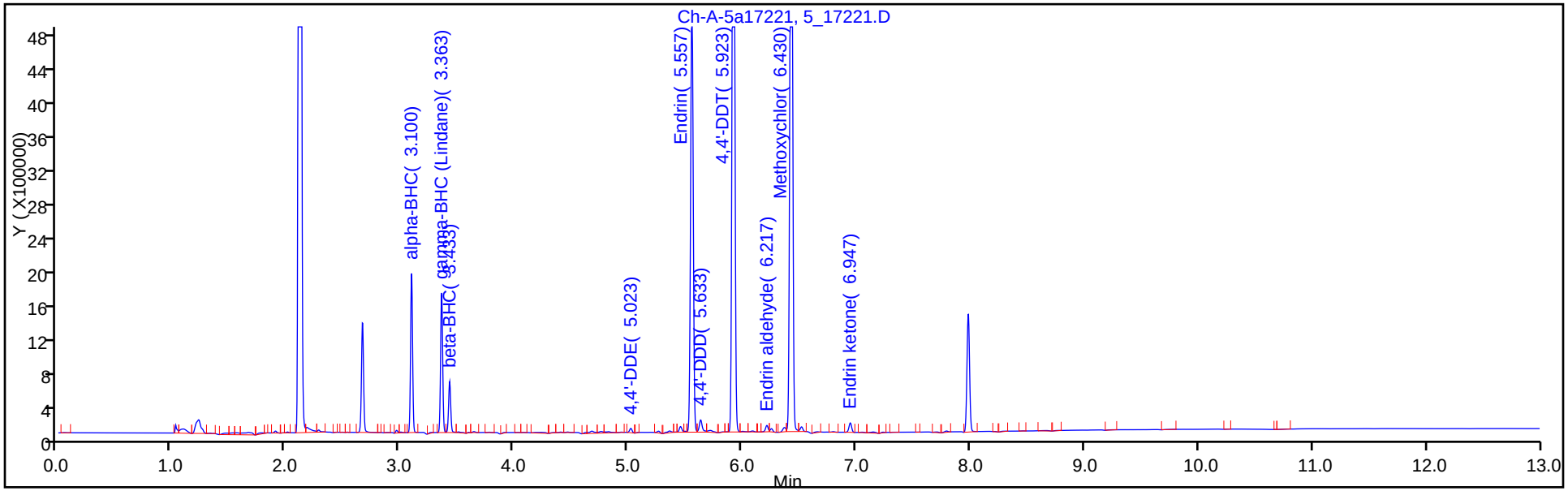
Report Date: 26-Aug-2017 10:08:05 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

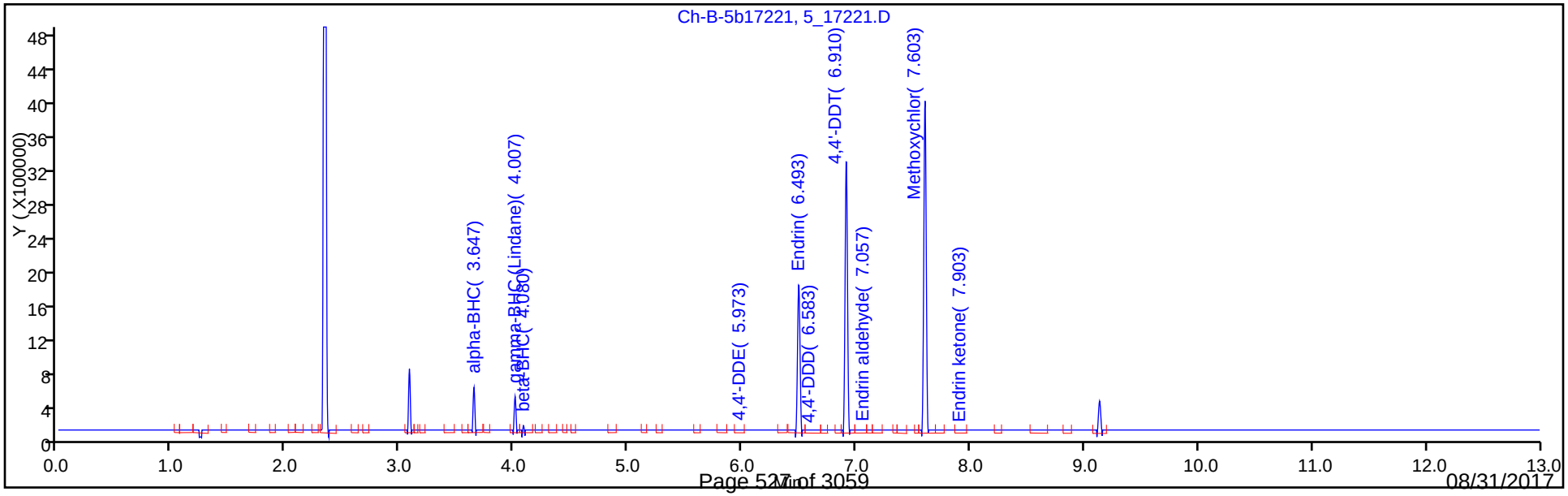
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17221.D

Injection Date:	25-Aug-2017 13:44:08	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	pem			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374025/5 Calibration Date: 08/25/2017 14:03

Instrument ID: HP6890-5 Calib Start Date: 08/14/2017 07:35

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 08/14/2017 08:53

Lab File ID: 5_17222.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		1.949		0.0486	0.0500	-2.8	20.0
gamma-BHC (Lindane)	Lin1		1.709		0.0486	0.0500	-2.9	20.0
beta-BHC	Lin1		0.6704		0.0505	0.0500	1.0	20.0
delta-BHC	Lin1		1.538		0.0472	0.0500	-5.5	20.0
Heptachlor	Lin1		1.517		0.0500	0.0500	-0.0	20.0
Aldrin	Lin1		1.553		0.0500	0.0500	-0.0	20.0
Heptachlor epoxide	Lin1		1.308		0.0506	0.0500	1.2	20.0
gamma-Chlordane	Lin1		1.482		0.0482	0.0500	-3.6	20.0
alpha-Chlordane	Lin1		1.381		0.0485	0.0500	-2.9	20.0
4,4'-DDE	Lin1		1.358		0.0486	0.0500	-2.8	20.0
Endosulfan I	Lin1		1.102		0.0487	0.0500	-2.6	20.0
Dieldrin	Lin1		1.243		0.0501	0.0500	0.1	20.0
Endrin	Lin1		1.238		0.0501	0.0500	0.2	20.0
4,4'-DDD	Lin1		1.118		0.0502	0.0500	0.3	20.0
Endosulfan II	Lin1		0.9877		0.0465	0.0500	-7.1	20.0
4,4'-DDT	Lin1		1.031		0.0434	0.0500	-13.2	20.0
Endrin aldehyde	Lin1		0.8913		0.0517	0.0500	3.4	20.0
Methoxychlor	Lin1		0.4691		0.0460	0.0500	-8.1	20.0
Endosulfan sulfate	Lin1		0.9844		0.0497	0.0500	-0.6	20.0
Endrin ketone	Lin1		1.085		0.0501	0.0500	0.2	20.0
Tetrachloro-m-xylene	Lin1		0.7427		0.0482	0.0500	-3.6	20.0
DCB Decachlorobiphenyl	Lin1		0.7924		0.0514	0.0500	2.8	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374025/5 Calibration Date: 08/25/2017 14:03

Instrument ID: HP6890-5 Calib Start Date: 08/14/2017 07:35

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 08/14/2017 08:53

Lab File ID: 5_17222.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	3.10	3.09	3.12
gamma-BHC (Lindane)	3.37	3.35	3.38
beta-BHC	3.44	3.42	3.45
delta-BHC	3.60	3.58	3.61
Heptachlor	3.80	3.78	3.81
Aldrin	4.08	4.07	4.10
Heptachlor epoxide	4.68	4.67	4.70
gamma-Chlordane	4.81	4.79	4.82
alpha-Chlordane	4.94	4.93	4.96
4,4'-DDE	5.02	5.01	5.04
Endosulfan I	5.08	5.07	5.10
Dieldrin	5.33	5.31	5.34
Endrin	5.56	5.55	5.58
4,4'-DDD	5.64	5.62	5.65
Endosulfan II	5.79	5.78	5.81
4,4'-DDT	5.93	5.91	5.94
Endrin aldehyde	6.22	6.21	6.24
Methoxychlor	6.44	6.42	6.45
Endosulfan sulfate	6.66	6.65	6.68
Endrin ketone	6.95	6.94	6.97
Tetrachloro-m-xylene	2.67	2.66	2.69
DCB Decachlorobiphenyl	7.99	7.97	8.00

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17222.D
Lims ID: ccv
Client ID:
Sample Type: CCVIS
Inject. Date: 25-Aug-2017 14:03:40 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:09 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.127	2.127	0.000	62761035	0.5000	0.5000	
2	2.340	2.340	0.000	24674496	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.673	2.673	0.000	4661481	0.0500	0.0482	
2	3.083	3.083	0.000	2656477	0.0500	0.0489	
						RPD = 1.46	
$ 2 DCB Decachlorobiphenyl							
1	7.987	7.987	0.000	4973446	0.0500	0.0514	
2	9.137	9.137	0.000	1774304	0.0500	0.0493	
						RPD = 4.12	
4 alpha-BHC							
1	3.103	3.103	0.000	12233339	0.0500	0.0486	
2	3.650	3.650	0.000	4489567	0.0500	0.0485	
						RPD = 0.30	
6 gamma-BHC (Lindane)							
1	3.367	3.367	0.000	10728692	0.0500	0.0486	
2	4.010	4.010	0.000	3807830	0.0500	0.0490	
						RPD = 0.97	
7 beta-BHC							
1	3.437	3.437	0.000	4207225	0.0500	0.0505	
2	4.083	4.083	0.000	1560560	0.0500	0.0490	
						RPD = 3.07	
8 delta-BHC							
1	3.597	3.597	0.000	9651618	0.0500	0.0472	
2	4.403	4.403	0.000	3418965	0.0500	0.0471	
						RPD = 0.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.797	3.797	0.000	9518568	0.0500	0.0500	
2	4.490	4.490	0.000	3556659	0.0500	0.0494	
						RPD = 1.20	
10 Aldrin							
1	4.083	4.083	0.000	9746680	0.0500	0.0500	
2	4.847	4.847	0.000	3515789	0.0500	0.0508	
						RPD = 1.60	
13 Heptachlor epoxide							
1	4.680	4.680	0.000	8207618	0.0500	0.0506	
2	5.453	5.453	0.000	3018849	0.0500	0.0515	
						RPD = 1.88	
14 gamma-Chlordane							
1	4.807	4.807	0.000	9300908	0.0500	0.0482	
2	5.657	5.657	0.000	3227212	0.0500	0.0489	
						RPD = 1.47	
15 alpha-Chlordane							
1	4.943	4.943	0.000	8664401	0.0500	0.0485	
2	5.813	5.813	0.000	3072522	0.0500	0.0494	
						RPD = 1.72	
16 4,4'-DDE							
1	5.023	5.023	0.000	8523476	0.0500	0.0486	
2	5.973	5.973	0.000	3033916	0.0500	0.0496	
						RPD = 1.95	
18 Endosulfan I							
1	5.080	5.080	0.000	6916744	0.0500	0.0487	
2	5.883	5.883	0.000	2696811	0.0500	0.0510	
						RPD = 4.64	
19 Dieldrin							
1	5.327	5.327	0.000	7801413	0.0500	0.0501	
2	6.173	6.173	0.000	3152571	0.0500	0.0506	
						RPD = 1.06	
20 Endrin							
1	5.563	5.563	0.000	7770255	0.0500	0.0501	
2	6.497	6.497	0.000	2795712	0.0500	0.0487	
						RPD = 2.70	
22 4,4'-DDD							
1	5.637	5.637	0.000	7018486	0.0500	0.0502	
2	6.583	6.583	0.000	2514558	0.0500	0.0505	
						RPD = 0.62	
23 Endosulfan II							
1	5.790	5.790	0.000	6198624	0.0500	0.0465	
2	6.713	6.713	0.000	2554200	0.0500	0.0509	
						RPD = 9.10	
26 4,4'-DDT							
1	5.927	5.927	0.000	6468611	0.0500	0.0434	
2	6.913	6.913	0.000	2129465	0.0500	0.0426	
						RPD = 1.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.220	6.220	0.000	5593919	0.0500	0.0517	
2	7.060	7.060	0.000	2038220	0.0500	0.0509	
						RPD = 1.60	
29 Methoxychlor							
1	6.437	6.437	0.000	2944039	0.0500	0.0460	
2	7.603	7.603	0.000	1023276	0.0500	0.0446	
						RPD = 3.02	
30 Endosulfan sulfate							
1	6.663	6.663	0.000	6178410	0.0500	0.0497	
2	7.347	7.347	0.000	2277803	0.0500	0.0494	
						RPD = 0.55	
31 Endrin ketone							
1	6.950	6.950	0.000	6811165	0.0500	0.0501	
2	7.907	7.907	0.000	2530695	0.0500	0.0501	
						RPD = 0.05	

Reagents:

PEST_CCV_.05_00240	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

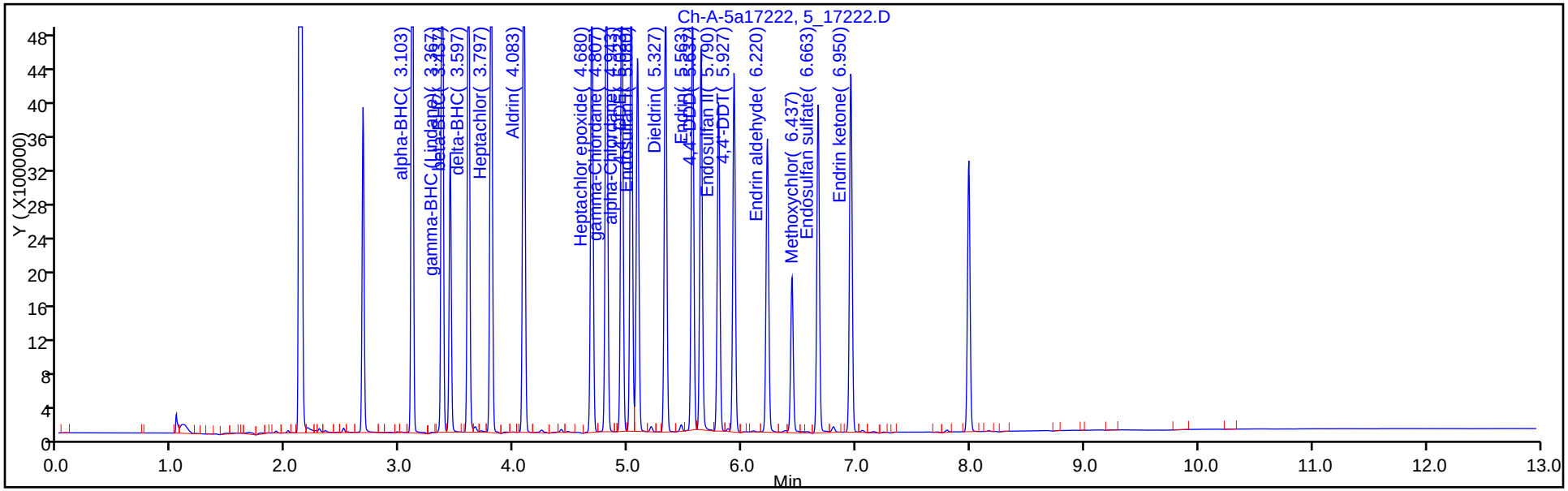
Report Date: 26-Aug-2017 10:08:09 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

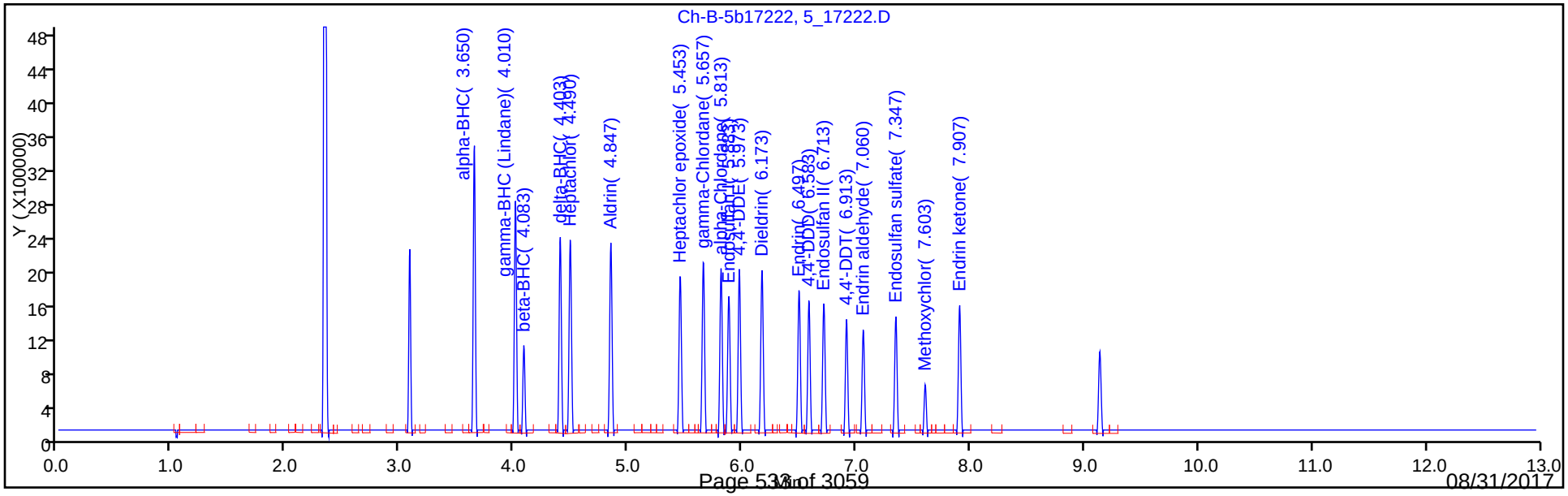
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17222.D

Injection Date:	25-Aug-2017 14:03:40	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	ccv			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374025/5 Calibration Date: 08/25/2017 14:03

Instrument ID: HP6890-5 Calib Start Date: 08/14/2017 07:35

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 08/14/2017 08:53

Lab File ID: 5_17222.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		1.820		0.0485	0.0500	-3.1	20.0
gamma-BHC (Lindane)	Lin1		1.543		0.0490	0.0500	-1.9	20.0
beta-BHC	Lin1		0.6325		0.0490	0.0500	-2.1	20.0
delta-BHC	Lin1		1.386		0.0471	0.0500	-5.7	20.0
Heptachlor	Lin1		1.441		0.0494	0.0500	-1.3	20.0
Aldrin	Lin1		1.425		0.0508	0.0500	1.6	20.0
Heptachlor epoxide	Lin1		1.223		0.0515	0.0500	3.1	20.0
gamma-Chlordane	Lin1		1.308		0.0489	0.0500	-2.2	20.0
alpha-Chlordane	Lin1		1.245		0.0494	0.0500	-1.2	20.0
Endosulfan I	Lin1		1.093		0.0510	0.0500	2.0	20.0
4,4'-DDE	Lin1		1.230		0.0496	0.0500	-0.9	20.0
Dieldrin	Lin1		1.278		0.0506	0.0500	1.2	20.0
Endrin	Lin1		1.133		0.0487	0.0500	-2.5	20.0
4,4'-DDD	Lin1		1.019		0.0505	0.0500	0.9	20.0
Endosulfan II	Lin1		1.035		0.0509	0.0500	1.8	20.0
4,4'-DDT	Lin1		0.8630		0.0426	0.0500	-14.8	20.0
Endrin aldehyde	Lin1		0.8260		0.0509	0.0500	1.8	20.0
Endosulfan sulfate	Lin1		0.9231		0.0494	0.0500	-1.2	20.0
Methoxychlor	Lin1		0.4147		0.0446	0.0500	-10.8	20.0
Endrin ketone	Lin1		1.026		0.0501	0.0500	0.1	20.0
Tetrachloro-m-xylene	Lin1		1.077		0.0489	0.0500	-2.2	20.0
DCB Decachlorobiphenyl	Lin1		0.7191		0.0493	0.0500	-1.3	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374025/5 Calibration Date: 08/25/2017 14:03

Instrument ID: HP6890-5 Calib Start Date: 08/14/2017 07:35

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 08/14/2017 08:53

Lab File ID: 5_17222.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	3.65	3.64	3.67
gamma-BHC (Lindane)	4.01	4.00	4.03
beta-BHC	4.08	4.07	4.10
delta-BHC	4.40	4.39	4.42
Heptachlor	4.49	4.48	4.51
Aldrin	4.85	4.83	4.86
Heptachlor epoxide	5.45	5.44	5.47
gamma-Chlordane	5.66	5.64	5.67
alpha-Chlordane	5.81	5.80	5.83
Endosulfan I	5.88	5.87	5.90
4,4'-DDE	5.97	5.96	5.99
Dieldrin	6.17	6.16	6.19
Endrin	6.50	6.48	6.51
4,4'-DDD	6.58	6.57	6.60
Endosulfan II	6.71	6.70	6.73
4,4'-DDT	6.91	6.90	6.93
Endrin aldehyde	7.06	7.05	7.08
Endosulfan sulfate	7.35	7.33	7.36
Methoxychlor	7.60	7.59	7.62
Endrin ketone	7.91	7.89	7.92
Tetrachloro-m-xylene	3.08	3.07	3.10
DCB Decachlorobiphenyl	9.14	9.12	9.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17222.D
Lims ID: ccv
Client ID:
Sample Type: CCVIS
Inject. Date: 25-Aug-2017 14:03:40 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub14

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:09 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.127	2.127	0.000	62761035	0.5000	0.5000	
2	2.340	2.340	0.000	24674496	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.673	2.673	0.000	4661481	0.0500	0.0482	
2	3.083	3.083	0.000	2656477	0.0500	0.0489	
						RPD = 1.46	
$ 2 DCB Decachlorobiphenyl							
1	7.987	7.987	0.000	4973446	0.0500	0.0514	
2	9.137	9.137	0.000	1774304	0.0500	0.0493	
						RPD = 4.12	
4 alpha-BHC							
1	3.103	3.103	0.000	12233339	0.0500	0.0486	
2	3.650	3.650	0.000	4489567	0.0500	0.0485	
						RPD = 0.30	
6 gamma-BHC (Lindane)							
1	3.367	3.367	0.000	10728692	0.0500	0.0486	
2	4.010	4.010	0.000	3807830	0.0500	0.0490	
						RPD = 0.97	
7 beta-BHC							
1	3.437	3.437	0.000	4207225	0.0500	0.0505	
2	4.083	4.083	0.000	1560560	0.0500	0.0490	
						RPD = 3.07	
8 delta-BHC							
1	3.597	3.597	0.000	9651618	0.0500	0.0472	
2	4.403	4.403	0.000	3418965	0.0500	0.0471	
						RPD = 0.21	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.797	3.797	0.000	9518568	0.0500	0.0500	
2	4.490	4.490	0.000	3556659	0.0500	0.0494	
						RPD = 1.20	
10 Aldrin							
1	4.083	4.083	0.000	9746680	0.0500	0.0500	
2	4.847	4.847	0.000	3515789	0.0500	0.0508	
						RPD = 1.60	
13 Heptachlor epoxide							
1	4.680	4.680	0.000	8207618	0.0500	0.0506	
2	5.453	5.453	0.000	3018849	0.0500	0.0515	
						RPD = 1.88	
14 gamma-Chlordane							
1	4.807	4.807	0.000	9300908	0.0500	0.0482	
2	5.657	5.657	0.000	3227212	0.0500	0.0489	
						RPD = 1.47	
15 alpha-Chlordane							
1	4.943	4.943	0.000	8664401	0.0500	0.0485	
2	5.813	5.813	0.000	3072522	0.0500	0.0494	
						RPD = 1.72	
16 4,4'-DDE							
1	5.023	5.023	0.000	8523476	0.0500	0.0486	
2	5.973	5.973	0.000	3033916	0.0500	0.0496	
						RPD = 1.95	
18 Endosulfan I							
1	5.080	5.080	0.000	6916744	0.0500	0.0487	
2	5.883	5.883	0.000	2696811	0.0500	0.0510	
						RPD = 4.64	
19 Dieldrin							
1	5.327	5.327	0.000	7801413	0.0500	0.0501	
2	6.173	6.173	0.000	3152571	0.0500	0.0506	
						RPD = 1.06	
20 Endrin							
1	5.563	5.563	0.000	7770255	0.0500	0.0501	
2	6.497	6.497	0.000	2795712	0.0500	0.0487	
						RPD = 2.70	
22 4,4'-DDD							
1	5.637	5.637	0.000	7018486	0.0500	0.0502	
2	6.583	6.583	0.000	2514558	0.0500	0.0505	
						RPD = 0.62	
23 Endosulfan II							
1	5.790	5.790	0.000	6198624	0.0500	0.0465	
2	6.713	6.713	0.000	2554200	0.0500	0.0509	
						RPD = 9.10	
26 4,4'-DDT							
1	5.927	5.927	0.000	6468611	0.0500	0.0434	
2	6.913	6.913	0.000	2129465	0.0500	0.0426	
						RPD = 1.86	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.220	6.220	0.000	5593919	0.0500	0.0517	
2	7.060	7.060	0.000	2038220	0.0500	0.0509	
						RPD = 1.60	
29 Methoxychlor							
1	6.437	6.437	0.000	2944039	0.0500	0.0460	
2	7.603	7.603	0.000	1023276	0.0500	0.0446	
						RPD = 3.02	
30 Endosulfan sulfate							
1	6.663	6.663	0.000	6178410	0.0500	0.0497	
2	7.347	7.347	0.000	2277803	0.0500	0.0494	
						RPD = 0.55	
31 Endrin ketone							
1	6.950	6.950	0.000	6811165	0.0500	0.0501	
2	7.907	7.907	0.000	2530695	0.0500	0.0501	
						RPD = 0.05	

Reagents:

PEST_CCV_.05_00240	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

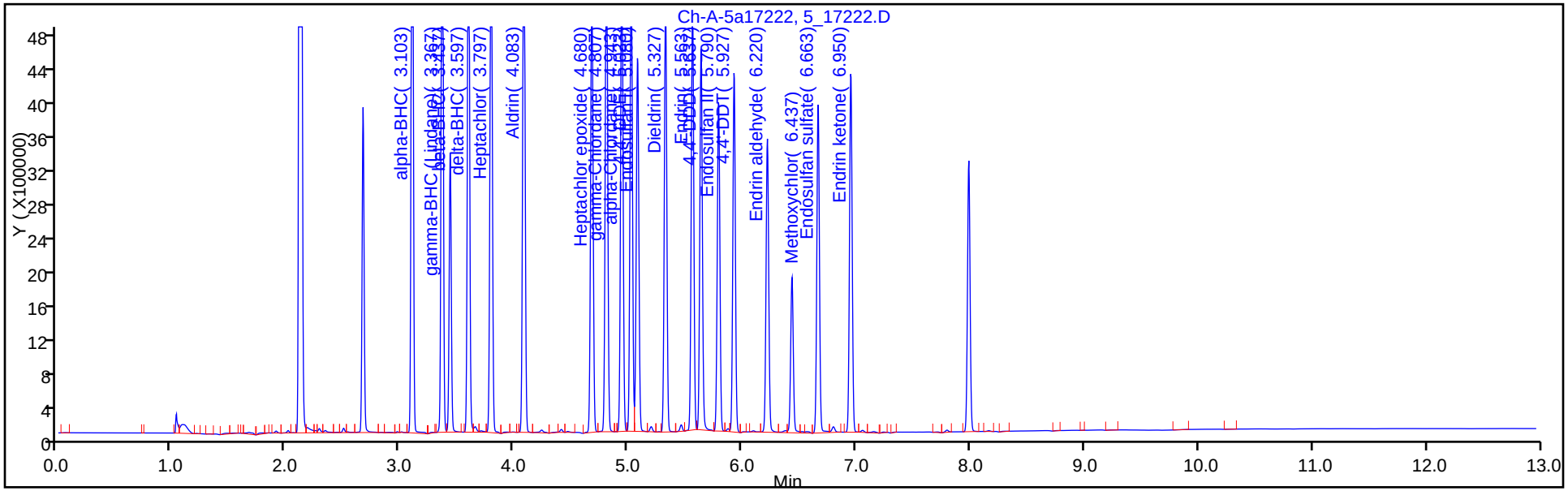
Report Date: 26-Aug-2017 10:08:10 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

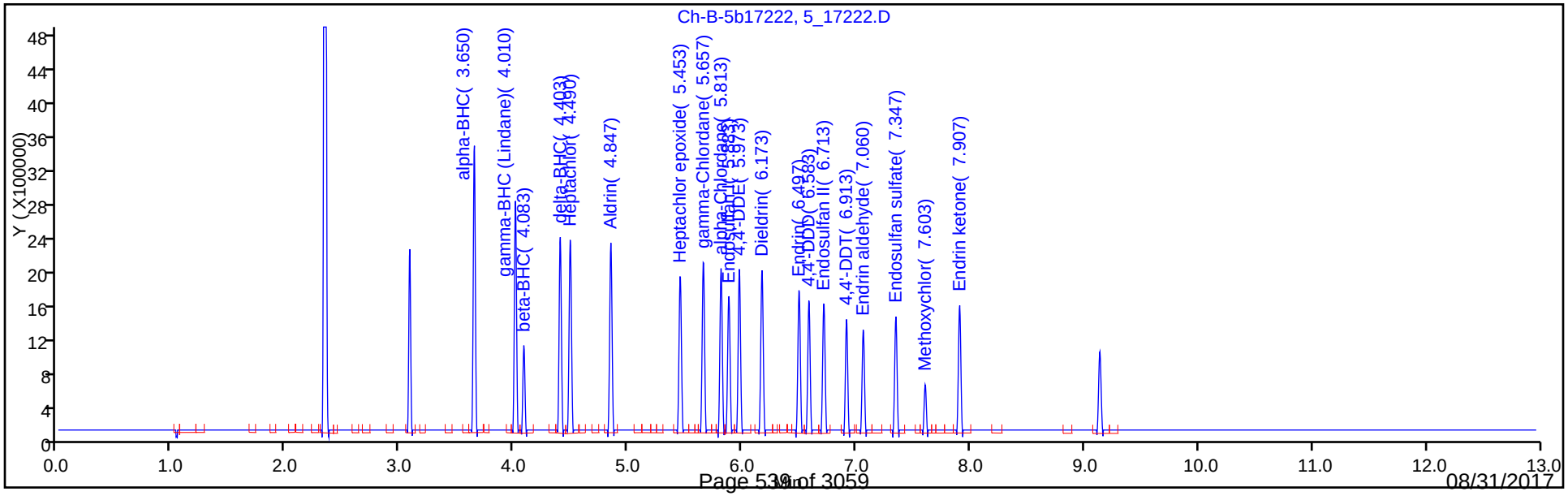
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17222.D

Injection Date:	25-Aug-2017 14:03:40	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	ccv			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374025/7 Calibration Date: 08/25/2017 14:42

Instrument ID: HP6890-5 Calib Start Date: 06/12/2017 18:21

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 06/12/2017 19:39

Lab File ID: 5_17224.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Lin1		0.0524		0.502	0.500	0.5	20.0
Toxaphene Peak 2	Lin1		0.0812		0.535	0.500	7.0	20.0
Toxaphene Peak 3	Lin1		0.0410		0.533	0.500	6.6	20.0
Toxaphene Peak 4	Lin1		0.0394		0.480	0.500	-4.1	20.0
Toxaphene Peak 5	Lin1		0.0375		0.494	0.500	-1.2	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374025/7 Calibration Date: 08/25/2017 14:42

Instrument ID: HP6890-5 Calib Start Date: 06/12/2017 18:21

GC Column: RTX-CLPI ID: 0.53(mm) Calib End Date: 06/12/2017 19:39

Lab File ID: 5_17224.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	5.77	5.76	5.79
Toxaphene Peak 2	5.90	5.89	5.92
Toxaphene Peak 3	6.13	6.12	6.15
Toxaphene Peak 4	6.46	6.45	6.48
Toxaphene Peak 5	6.56	6.55	6.58

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17224.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 25-Aug-2017 14:42:50 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub17

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:17 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.120	2.127	-0.007	64512683	0.5000	0.5000	
2	2.340	2.340	0.000	25407721	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							
1	5.773	5.777	-0.004	3382288	0.5000	0.5025	
1	5.897	5.900	-0.003	5235350	0.5000	0.5348	
1	6.130	6.130	0.000	2641666	0.5000	0.5328	
1	6.463	6.467	-0.004	2541049	0.5000	0.4796	
1	6.563	6.563	0.000	2420248	0.5000	0.4942	
		Average of Peak Amounts =				0.5088	
2	6.140	6.147	-0.007	523250	0.5000	0.4924	
2	6.700	6.703	-0.003	713869	0.5000	0.4807	
2	6.800	6.803	-0.003	1345197	0.5000	0.4705	
2	7.067	7.070	-0.003	839599	0.5000	0.4630	
2	7.600	7.607	-0.007	645987	0.5000	0.4517	
		Average of Peak Amounts =				0.4717	
						RPD = 7.57	

Reagents:

TOX_CCV_0.5_00102	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

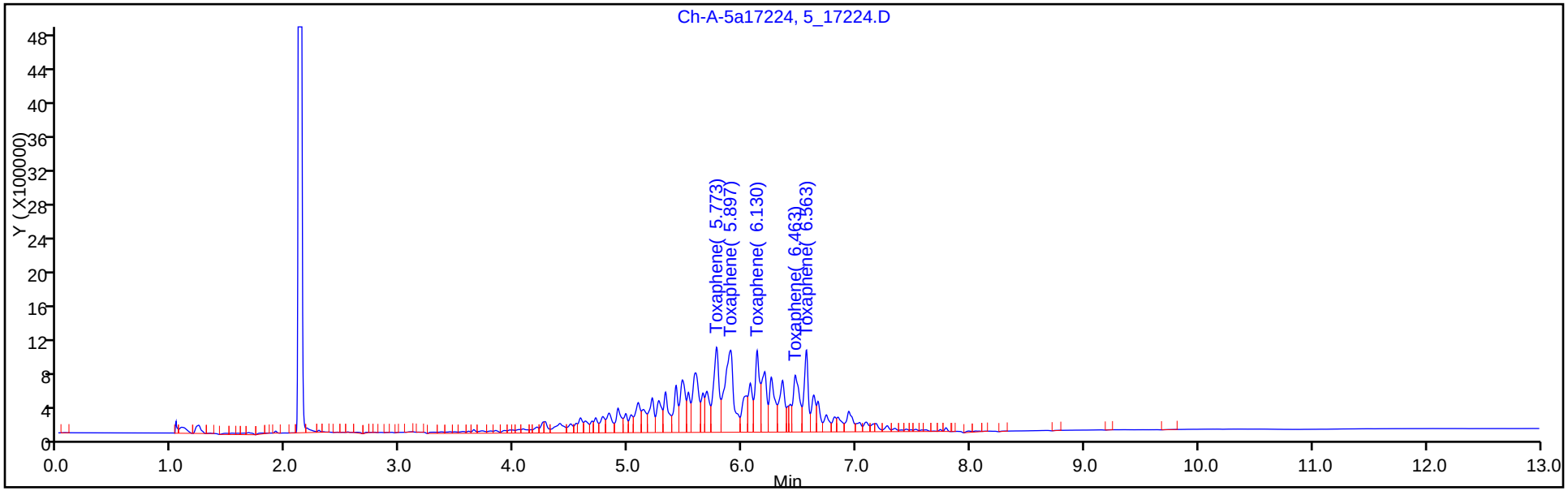
Report Date: 26-Aug-2017 10:08:17 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

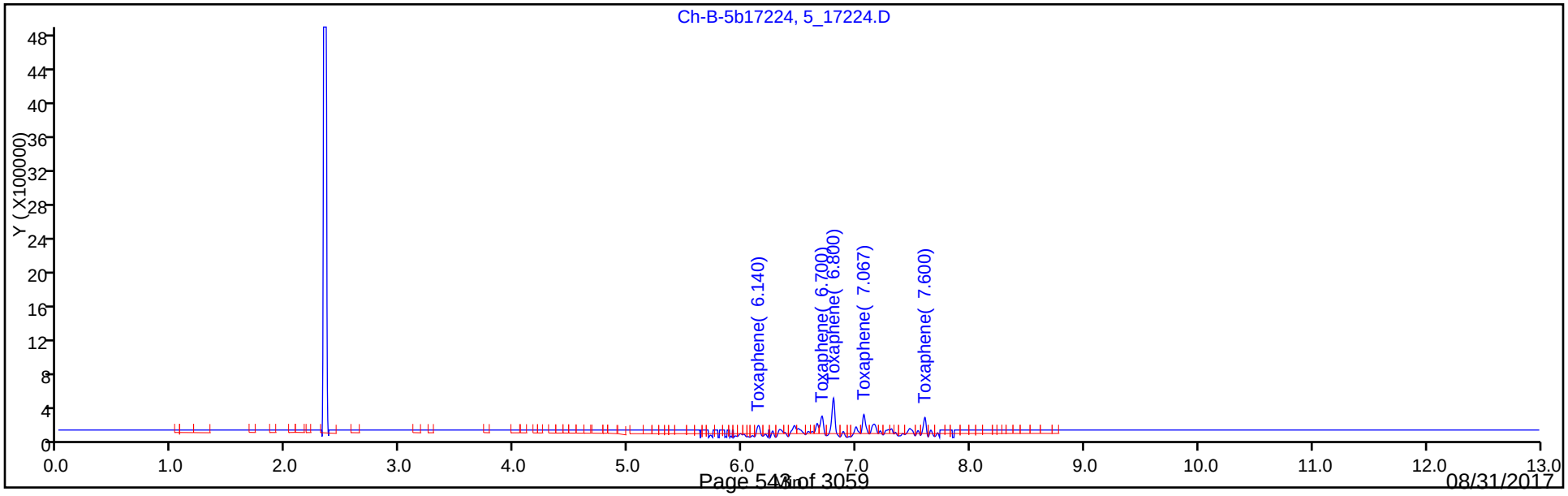
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17224.D

Injection Date:	25-Aug-2017 14:42:50	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	ccv			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM VII
PESTICIDES CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374025/7 Calibration Date: 08/25/2017 14:42

Instrument ID: HP6890-5 Calib Start Date: 06/12/2017 18:21

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 06/12/2017 19:39

Lab File ID: 5_17224.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Lin1		0.0206		0.492	0.500	-1.5	20.0
Toxaphene Peak 2	Lin1		0.0281		0.481	0.500	-3.9	20.0
Toxaphene Peak 3	Lin1		0.0529		0.471	0.500	-5.9	20.0
Toxaphene Peak 4	Lin1		0.0331		0.463	0.500	-7.4	20.0
Toxaphene Peak 5	Lin1		0.0254		0.452	0.500	-9.7	20.0

FORM VII
PESTICIDES CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374025/7 Calibration Date: 08/25/2017 14:42

Instrument ID: HP6890-5 Calib Start Date: 06/12/2017 18:21

GC Column: RTX-CLPII ID: 0.53(mm) Calib End Date: 06/12/2017 19:39

Lab File ID: 5_17224.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	6.14	6.13	6.16
Toxaphene Peak 2	6.70	6.69	6.72
Toxaphene Peak 3	6.80	6.79	6.82
Toxaphene Peak 4	7.07	7.06	7.09
Toxaphene Peak 5	7.60	7.59	7.62

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17224.D
Lims ID: ccv
Client ID:
Sample Type: CCV
Inject. Date: 25-Aug-2017 14:42:50 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5
Sublist: chrom-IS-8081 6890-5*sub17

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:17 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.120	2.127	-0.007	64512683	0.5000	0.5000	
2	2.340	2.340	0.000	25407721	0.5000	0.5000	
						RPD = 0.00	
24 Toxaphene							
1	5.773	5.777	-0.004	3382288	0.5000	0.5025	
1	5.897	5.900	-0.003	5235350	0.5000	0.5348	
1	6.130	6.130	0.000	2641666	0.5000	0.5328	
1	6.463	6.467	-0.004	2541049	0.5000	0.4796	
1	6.563	6.563	0.000	2420248	0.5000	0.4942	
		Average of Peak Amounts =				0.5088	
2	6.140	6.147	-0.007	523250	0.5000	0.4924	
2	6.700	6.703	-0.003	713869	0.5000	0.4807	
2	6.800	6.803	-0.003	1345197	0.5000	0.4705	
2	7.067	7.070	-0.003	839599	0.5000	0.4630	
2	7.600	7.607	-0.007	645987	0.5000	0.4517	
		Average of Peak Amounts =				0.4717	
						RPD = 7.57	

Reagents:

TOX_CCV_0.5_00102	Amount Added: 1.00	Units: mL	
COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

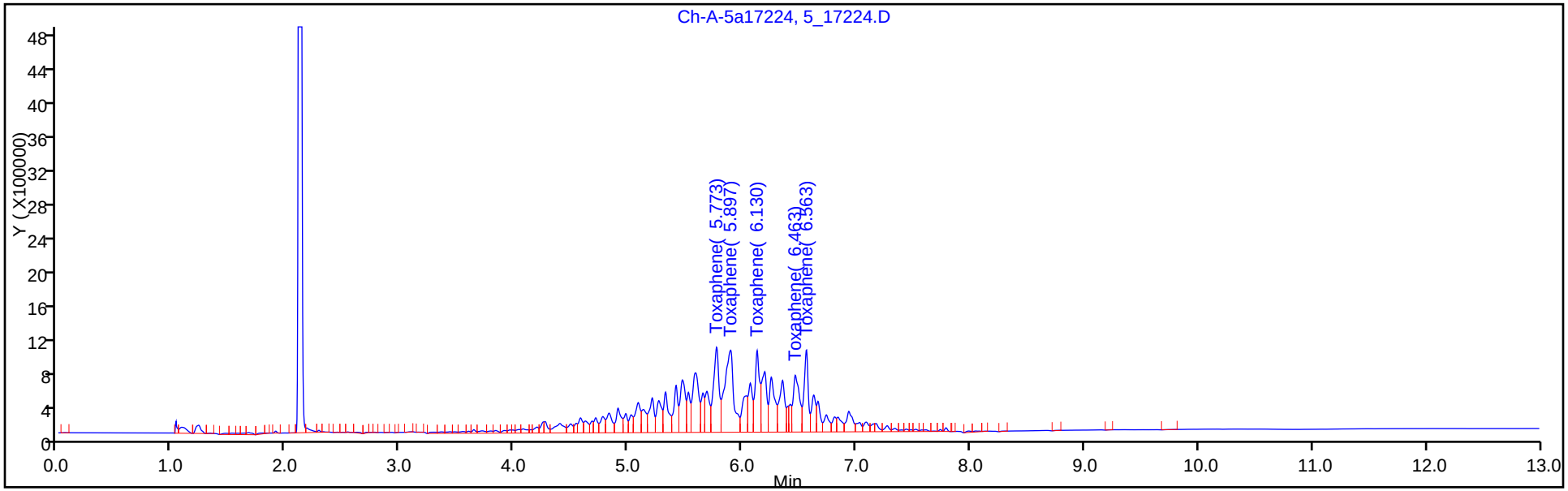
Report Date: 26-Aug-2017 10:08:18 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

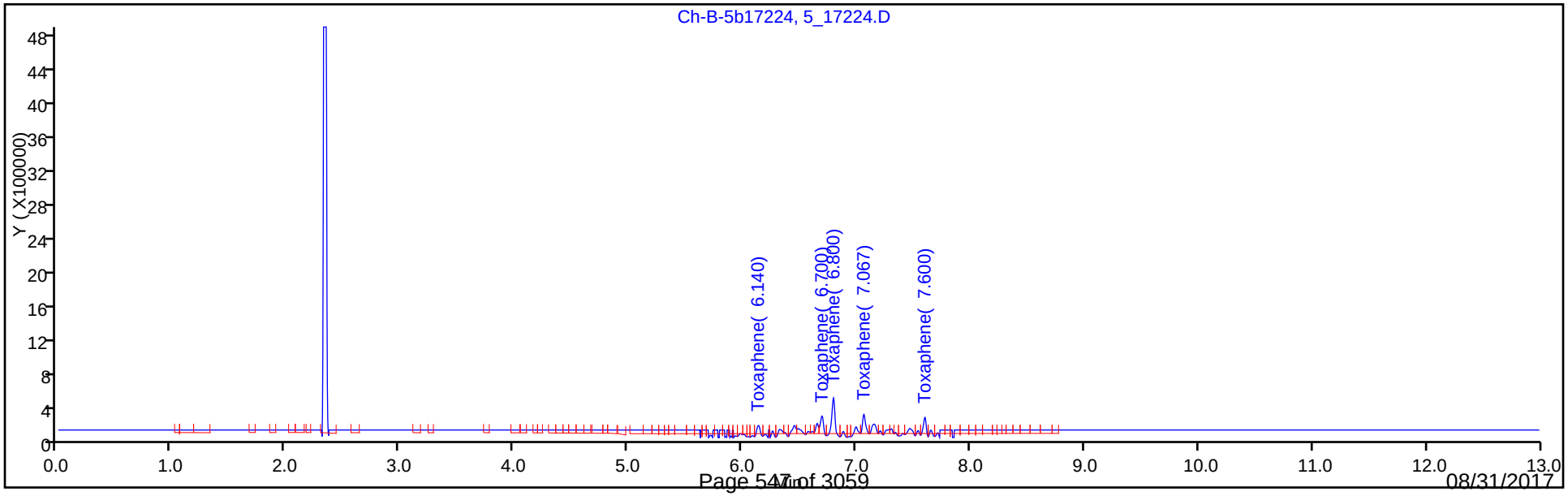
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17224.D

Injection Date:	25-Aug-2017 14:42:50	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	ccv			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-373892/1-A

Matrix: Water | Lab File ID: 5_17226.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 250(mL) | Date Analyzed: 08/25/2017 15:22

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.050	0.0092
72-55-9	4,4'-DDE	ND		0.050	0.012
50-29-3	4,4'-DDT	ND		0.050	0.011
309-00-2	Aldrin	ND		0.050	0.0081
319-84-6	alpha-BHC	0.0116	J	0.050	0.0077
5103-71-9	alpha-Chlordane	ND		0.050	0.015
319-85-7	beta-BHC	ND		0.050	0.025
319-86-8	delta-BHC	ND		0.050	0.010
60-57-1	Dieldrin	ND		0.050	0.0098
959-98-8	Endosulfan I	ND		0.050	0.011
33213-65-9	Endosulfan II	ND		0.050	0.012
1031-07-8	Endosulfan sulfate	ND		0.050	0.016
72-20-8	Endrin	ND		0.050	0.014
7421-93-4	Endrin aldehyde	ND		0.050	0.016
53494-70-5	Endrin ketone	ND		0.050	0.012
58-89-9	gamma-BHC (Lindane)	ND		0.050	0.0080
5103-74-2	gamma-Chlordane	ND		0.050	0.011
76-44-8	Heptachlor	ND		0.050	0.0085
1024-57-3	Heptachlor epoxide	ND		0.050	0.0074
72-43-5	Methoxychlor	ND		0.050	0.014
8001-35-2	Toxaphene	ND		0.50	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	58		20-120
877-09-8	Tetrachloro-m-xylene	102		44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17226.D
Lims ID: MB 480-373892/1-A
Client ID:
Sample Type: MB
Inject. Date: 25-Aug-2017 15:22:01 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

First Level Reviewer: NearyM Date: 26-Aug-2017 09:14:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.120	2.127	-0.007	56020886	0.5000	0.5000	
2	2.337	2.340	-0.003	21801879	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.673	-0.006	1682894	0.0200	0.0204	
2	3.080	3.083	-0.003	785881	0.0200	0.0170	
						RPD = 18.24	
$ 2 DCB Decachlorobiphenyl							
1	7.980	7.987	-0.007	1018611	0.0200	0.0117	
2	9.133	9.137	-0.004	391446	0.0200	0.0126	
						RPD = 7.91	
5 Hexachlorobenzene							
1	2.970	2.967	0.003	86629		0.001470	
2	3.513	3.523	-0.010	89401		0.002559	
						RPD = 54.06	
4 alpha-BHC							M
1	3.097	3.103	-0.006	20123		0.001447	M
2	3.640	3.650	-0.010	5140		0.001348	
						RPD = 7.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 35 BHC, Total							
1						0.001447	
2						0.001348	
						RPD = 7.10	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

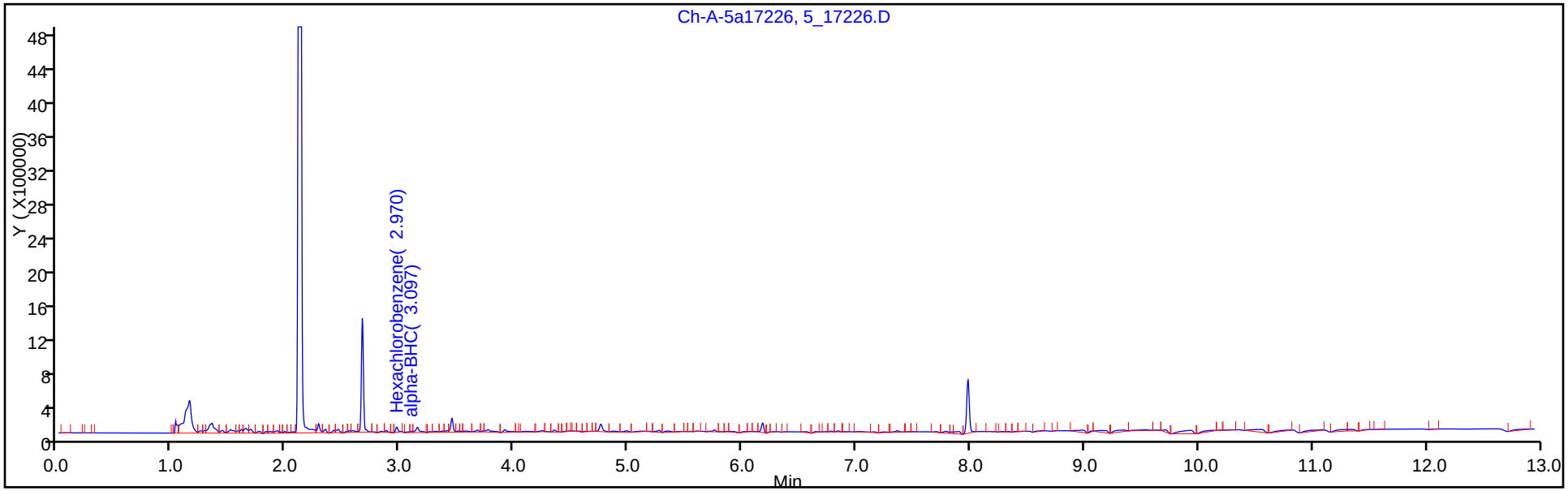
Report Date: 26-Aug-2017 10:08:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

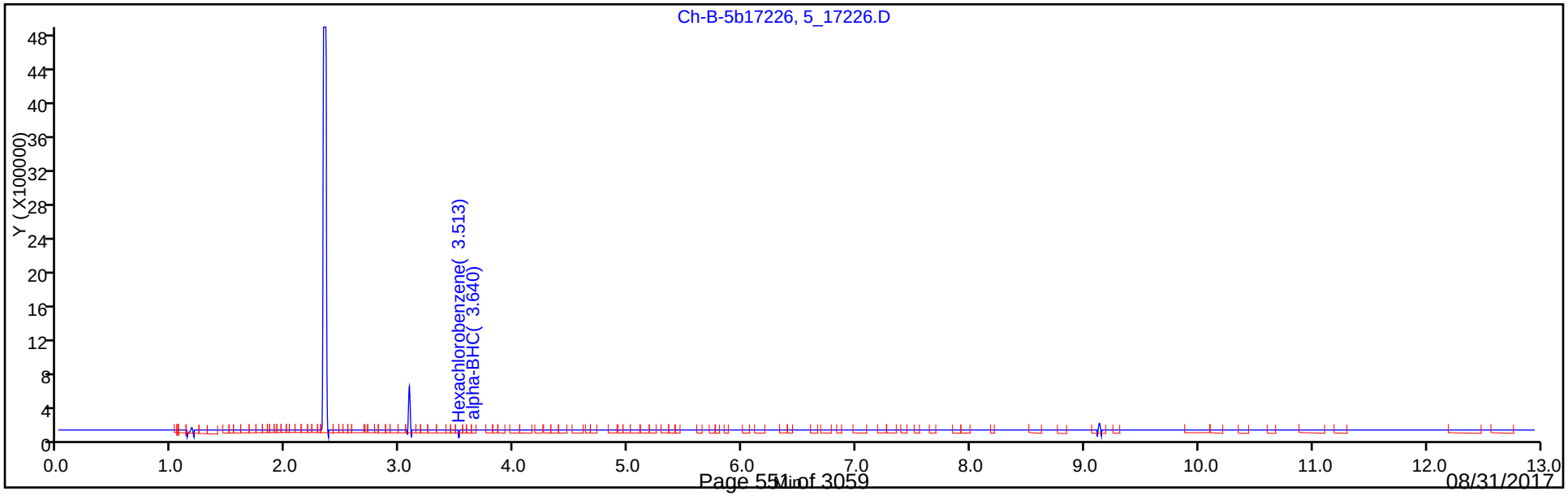
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17226.D

Injection Date:	25-Aug-2017 15:22:01	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	MB 480-373892/1-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

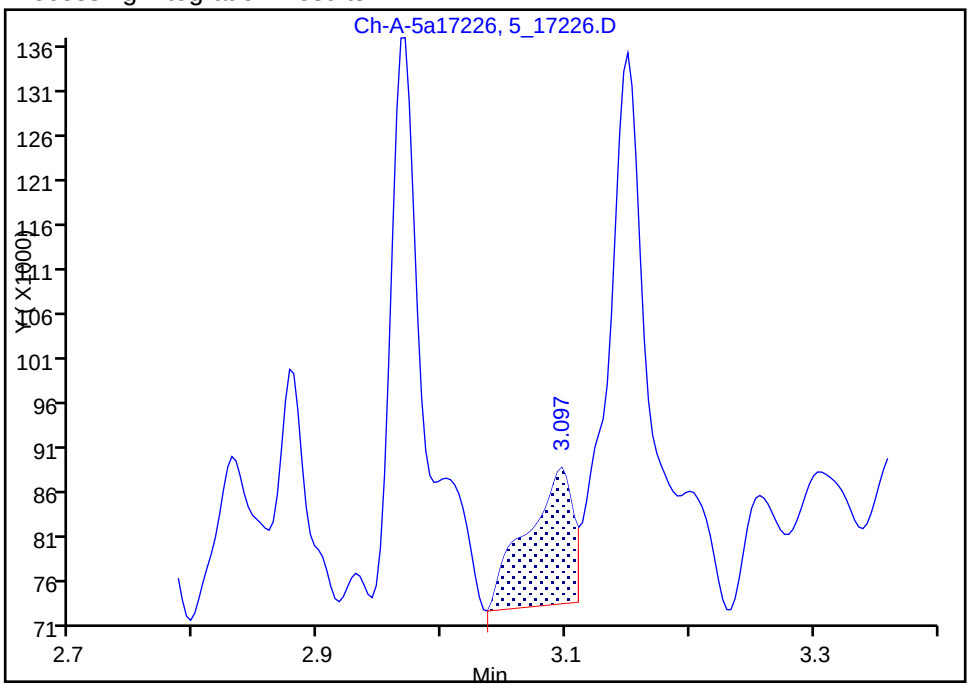
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17226.D
Injection Date: 25-Aug-2017 15:22:01 Instrument ID: HP6890-5
Lims ID: MB 480-373892/1-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: IS-8081 6890-5 Limit Group: GC - 8081B IS ICAL
Column: Detector Ch-A-6A58132

4 alpha-BHC, CAS: 319-84-6

Signal: 1

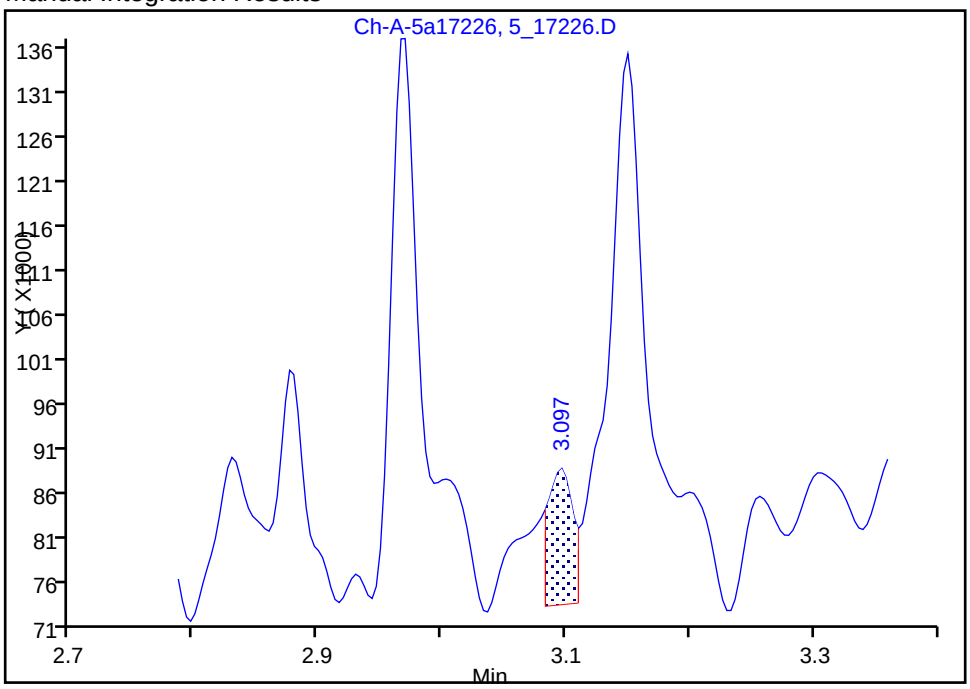
Processing Integration Results

RT: 3.10
Area: 38806
Amount: 0.001528
Amount Units: ng/ul



Manual Integration Results

RT: 3.10
Area: 20123
Amount: 0.001447
Amount Units: ng/ul



Reviewer: NearyM, 26-Aug-2017 09:40:12
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-373892/1-A

Matrix: Water | Lab File ID: 5_17226.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 250(mL) | Date Analyzed: 08/25/2017 15:22

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	63		20-120
877-09-8	Tetrachloro-m-xylene	85		44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17226.D
Lims ID: MB 480-373892/1-A
Client ID:
Sample Type: MB
Inject. Date: 25-Aug-2017 15:22:01 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

First Level Reviewer: NearyM Date: 26-Aug-2017 09:14:37

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.120	2.127	-0.007	56020886	0.5000	0.5000	
2	2.337	2.340	-0.003	21801879	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.673	-0.006	1682894	0.0200	0.0204	
2	3.080	3.083	-0.003	785881	0.0200	0.0170	
						RPD = 18.24	
$ 2 DCB Decachlorobiphenyl							
1	7.980	7.987	-0.007	1018611	0.0200	0.0117	
2	9.133	9.137	-0.004	391446	0.0200	0.0126	
						RPD = 7.91	
5 Hexachlorobenzene							
1	2.970	2.967	0.003	86629		0.001470	
2	3.513	3.523	-0.010	89401		0.002559	
						RPD = 54.06	
4 alpha-BHC							M
1	3.097	3.103	-0.006	20123		0.001447	M
2	3.640	3.650	-0.010	5140		0.001348	
						RPD = 7.10	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
S 35 BHC, Total							
1						0.001447	
2						0.001348	
						RPD = 7.10	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

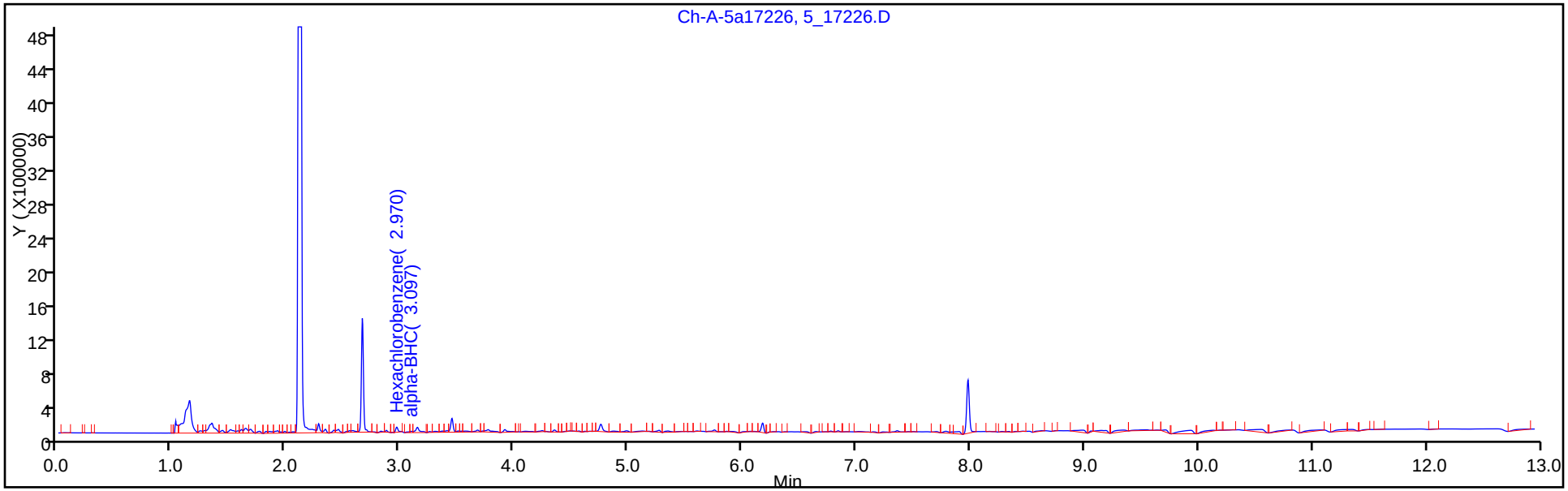
Report Date: 26-Aug-2017 10:08:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

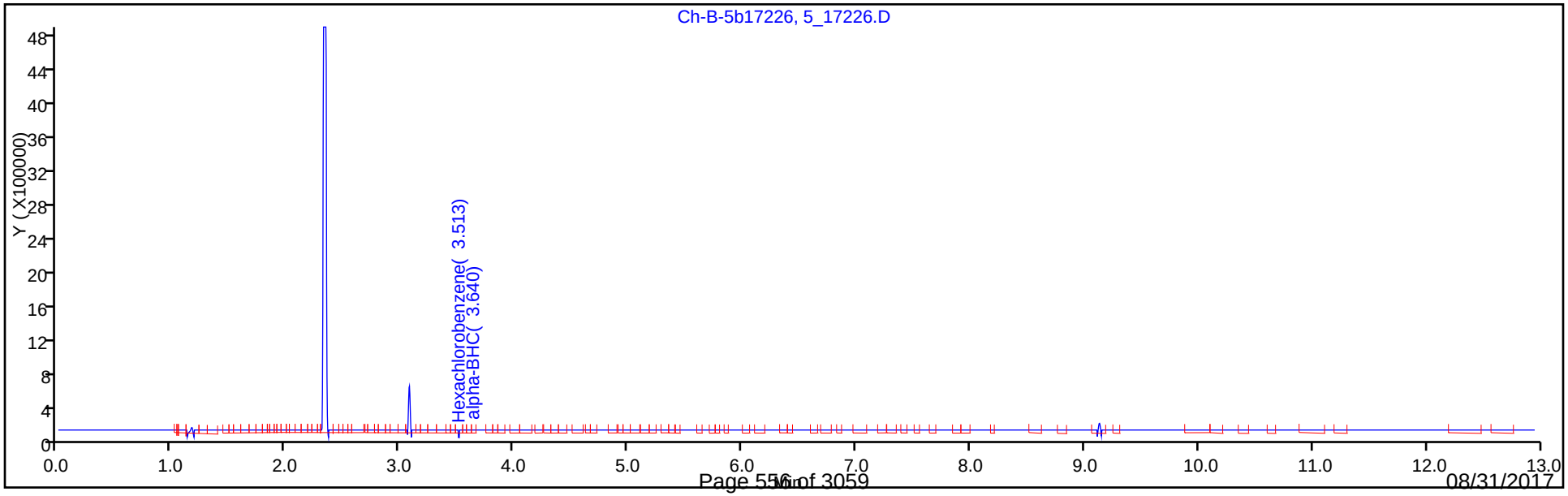
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17226.D

Injection Date:	25-Aug-2017 15:22:01	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	MB 480-373892/1-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-373892/2-A

Matrix: Water | Lab File ID: 5_17227.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 250(mL) | Date Analyzed: 08/25/2017 15:41

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.402		0.050	0.0092
72-55-9	4,4'-DDE	0.327		0.050	0.012
50-29-3	4,4'-DDT	0.376		0.050	0.011
309-00-2	Aldrin	0.271		0.050	0.0081
319-84-6	alpha-BHC	0.295		0.050	0.0077
5103-71-9	alpha-Chlordane	0.332		0.050	0.015
319-85-7	beta-BHC	0.374		0.050	0.025
319-86-8	delta-BHC	0.382		0.050	0.010
60-57-1	Dieldrin	0.403		0.050	0.0098
959-98-8	Endosulfan I	0.400		0.050	0.011
33213-65-9	Endosulfan II	0.402		0.050	0.012
1031-07-8	Endosulfan sulfate	0.422		0.050	0.016
72-20-8	Endrin	0.414		0.050	0.014
7421-93-4	Endrin aldehyde	0.304		0.050	0.016
53494-70-5	Endrin ketone	0.403		0.050	0.012
58-89-9	gamma-BHC (Lindane)	0.343		0.050	0.0080
5103-74-2	gamma-Chlordane	0.349		0.050	0.011
76-44-8	Heptachlor	0.351		0.050	0.0085
1024-57-3	Heptachlor epoxide	0.385		0.050	0.0074
72-43-5	Methoxychlor	0.391		0.050	0.014

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	52		20-120
877-09-8	Tetrachloro-m-xylene	92		44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17227.D
Lims ID: LCS 480-373892/2-A
Client ID:
Sample Type: LCS
Inject. Date: 25-Aug-2017 15:41:23 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.120	2.127	-0.007	57053967	0.5000	0.5000	
2	2.340	2.340	0.000	22112072	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.673	-0.006	1520015	0.0200	0.0183	
2	3.083	3.083	0.000	682540	0.0200	0.0147	
						RPD = 21.74	
$ 2 DCB Decachlorobiphenyl							
1	7.980	7.987	-0.007	924146	0.0200	0.0104	
2	9.133	9.137	-0.004	279054	0.0200	0.009015	
						RPD = 14.17	
4 alpha-BHC							
1	3.097	3.103	-0.006	8364117	0.0500	0.0369	
2	3.650	3.650	0.000	3421920	0.0500	0.0414	
						RPD = 11.53	
6 gamma-BHC (Lindane)							
1	3.363	3.367	-0.004	8592135	0.0500	0.0429	
2	4.010	4.010	0.000	3267658	0.0500	0.0470	
						RPD = 9.08	
7 beta-BHC							
1	3.430	3.437	-0.007	3534060	0.0500	0.0467	
2	4.083	4.083	0.000	1279194	0.0500	0.0449	
						RPD = 4.05	
8 delta-BHC							
1	3.590	3.597	-0.007	8875987	0.0500	0.0478	
2	4.403	4.403	0.000	2982911	0.0500	0.0459	
						RPD = 3.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.790	3.797	-0.007	7595519	0.0500	0.0438	
2	4.490	4.490	0.000	2774558	0.0500	0.0430	
						RPD = 1.83	
10 Aldrin							
1	4.077	4.083	-0.006	5979654	0.0500	0.0339	
2	4.843	4.847	-0.004	2082091	0.0500	0.0338	
						RPD = 0.04	
13 Heptachlor epoxide							
1	4.673	4.680	-0.007	7106834	0.0500	0.0481	
2	5.453	5.453	0.000	2699582	0.0500	0.0514	
						RPD = 6.61	
14 gamma-Chlordane							
1	4.800	4.807	-0.007	7652572	0.0500	0.0437	
2	5.657	5.657	0.000	2792488	0.0500	0.0473	
						RPD = 7.89	
15 alpha-Chlordane							
1	4.937	4.943	-0.006	6727914	0.0500	0.0416	
2	5.810	5.813	-0.003	2671146	0.0500	0.0479	
						RPD = 14.27	
16 4,4'-DDE							
1	5.017	5.023	-0.006	6510642	0.0500	0.0409	
2	5.970	5.973	-0.003	2579058	0.0500	0.0471	
						RPD = 13.97	
18 Endosulfan I							
1	5.073	5.080	-0.007	6461028	0.0500	0.0501	
2	5.880	5.883	-0.003	2411059	0.0500	0.0509	
						RPD = 1.65	
19 Dieldrin							
1	5.320	5.327	-0.007	7139807	0.0500	0.0504	
2	6.170	6.173	-0.003	2871733	0.0500	0.0514	
						RPD = 2.00	
20 Endrin							
1	5.557	5.563	-0.006	7291945	0.0500	0.0517	
2	6.493	6.497	-0.004	2600931	0.0500	0.0506	
						RPD = 2.20	
22 4,4'-DDD							
1	5.630	5.637	-0.007	6397494	0.0500	0.0503	
2	6.580	6.583	-0.003	2375901	0.0500	0.0532	
						RPD = 5.54	
23 Endosulfan II							
1	5.783	5.790	-0.007	6091734	0.0500	0.0502	
2	6.713	6.713	0.000	2314386	0.0500	0.0514	
						RPD = 2.37	
26 4,4'-DDT							
1	5.920	5.927	-0.007	6374216	0.0500	0.0469	
2	6.910	6.913	-0.003	2183745	0.0500	0.0485	
						RPD = 3.27	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.213	6.220	-0.007	3749548	0.0500	0.0380	
2	7.057	7.060	-0.003	1827327	0.0500	0.0509	
						RPD = 29.04	
29 Methoxychlor							
1	6.427	6.437	-0.010	2847268	0.0500	0.0489	
2	7.600	7.603	-0.003	1126799	0.0500	0.0545	
						RPD = 10.88	
30 Endosulfan sulfate							
1	6.657	6.663	-0.006	5960682	0.0500	0.0527	
2	7.343	7.347	-0.004	2185305	0.0500	0.0528	
						RPD = 0.19	
31 Endrin ketone							
1	6.943	6.950	-0.007	6233228	0.0500	0.0504	
2	7.903	7.907	-0.004	2371332	0.0500	0.0523	
						RPD = 3.65	

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

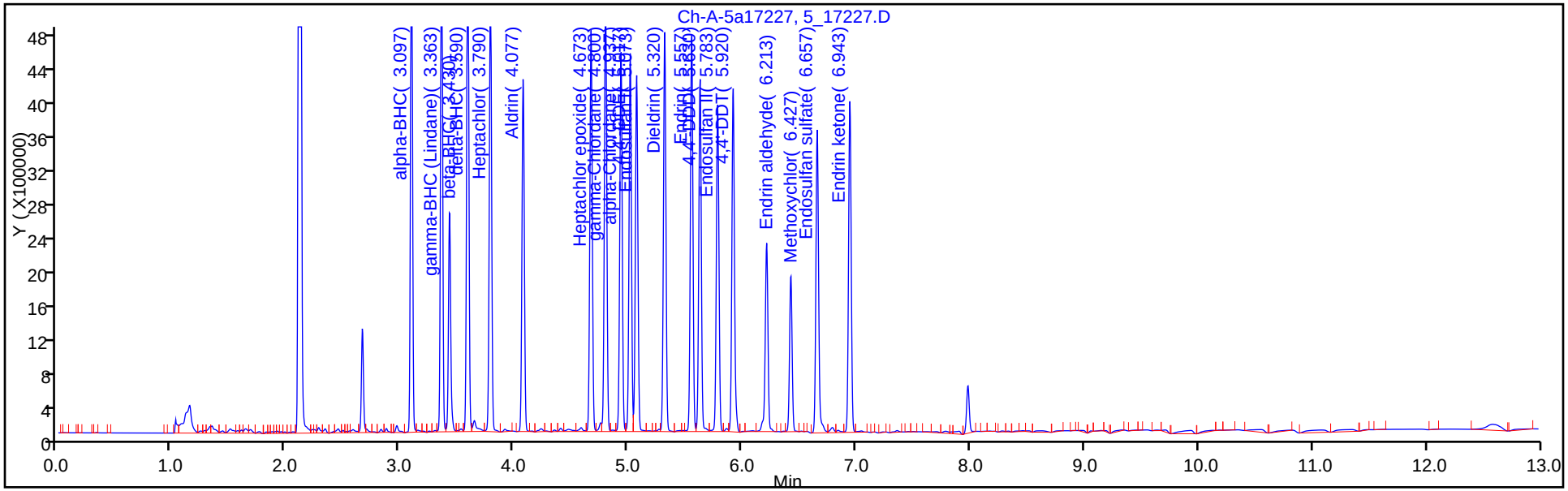
Report Date: 26-Aug-2017 10:08:26 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

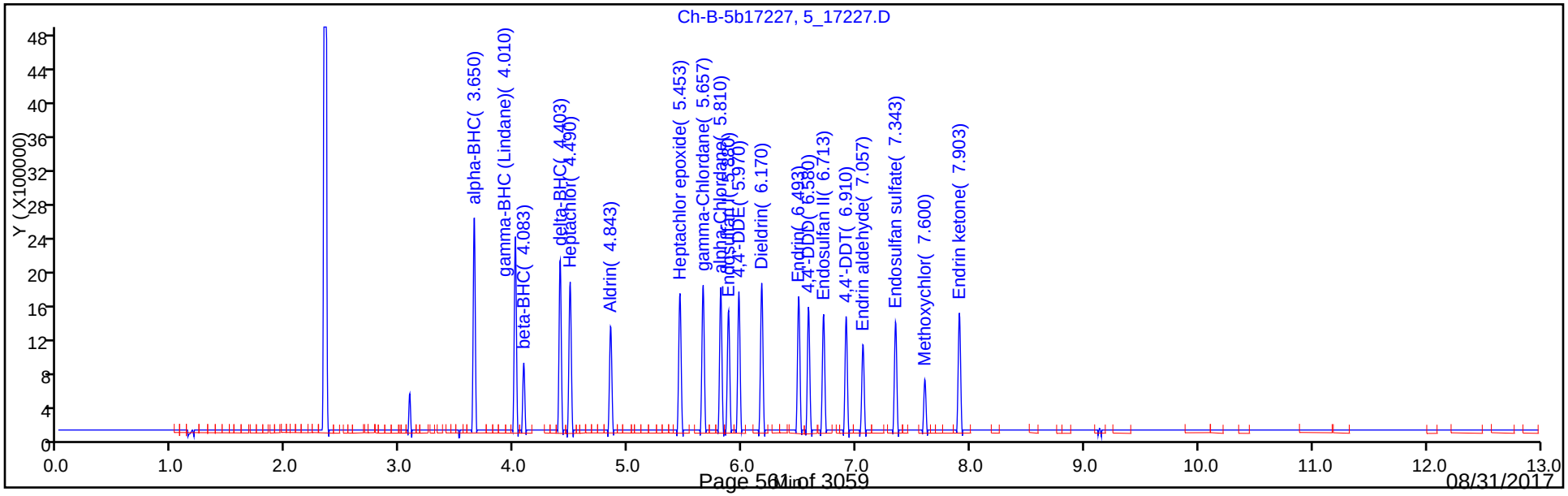
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17227.D

Injection Date:	25-Aug-2017 15:41:23	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	LCS 480-373892/2-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-373892/2-A

Matrix: Water | Lab File ID: 5_17227.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 250(mL) | Date Analyzed: 08/25/2017 15:41

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	45		20-120
877-09-8	Tetrachloro-m-xylene	74		44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17227.D
Lims ID: LCS 480-373892/2-A
Client ID:
Sample Type: LCS
Inject. Date: 25-Aug-2017 15:41:23 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.120	2.127	-0.007	57053967	0.5000	0.5000	
2	2.340	2.340	0.000	22112072	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.667	2.673	-0.006	1520015	0.0200	0.0183	
2	3.083	3.083	0.000	682540	0.0200	0.0147	
						RPD = 21.74	
$ 2 DCB Decachlorobiphenyl							
1	7.980	7.987	-0.007	924146	0.0200	0.0104	
2	9.133	9.137	-0.004	279054	0.0200	0.009015	
						RPD = 14.17	
4 alpha-BHC							
1	3.097	3.103	-0.006	8364117	0.0500	0.0369	
2	3.650	3.650	0.000	3421920	0.0500	0.0414	
						RPD = 11.53	
6 gamma-BHC (Lindane)							
1	3.363	3.367	-0.004	8592135	0.0500	0.0429	
2	4.010	4.010	0.000	3267658	0.0500	0.0470	
						RPD = 9.08	
7 beta-BHC							
1	3.430	3.437	-0.007	3534060	0.0500	0.0467	
2	4.083	4.083	0.000	1279194	0.0500	0.0449	
						RPD = 4.05	
8 delta-BHC							
1	3.590	3.597	-0.007	8875987	0.0500	0.0478	
2	4.403	4.403	0.000	2982911	0.0500	0.0459	
						RPD = 3.92	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.790	3.797	-0.007	7595519	0.0500	0.0438	
2	4.490	4.490	0.000	2774558	0.0500	0.0430	
						RPD = 1.83	
10 Aldrin							
1	4.077	4.083	-0.006	5979654	0.0500	0.0339	
2	4.843	4.847	-0.004	2082091	0.0500	0.0338	
						RPD = 0.04	
13 Heptachlor epoxide							
1	4.673	4.680	-0.007	7106834	0.0500	0.0481	
2	5.453	5.453	0.000	2699582	0.0500	0.0514	
						RPD = 6.61	
14 gamma-Chlordane							
1	4.800	4.807	-0.007	7652572	0.0500	0.0437	
2	5.657	5.657	0.000	2792488	0.0500	0.0473	
						RPD = 7.89	
15 alpha-Chlordane							
1	4.937	4.943	-0.006	6727914	0.0500	0.0416	
2	5.810	5.813	-0.003	2671146	0.0500	0.0479	
						RPD = 14.27	
16 4,4'-DDE							
1	5.017	5.023	-0.006	6510642	0.0500	0.0409	
2	5.970	5.973	-0.003	2579058	0.0500	0.0471	
						RPD = 13.97	
18 Endosulfan I							
1	5.073	5.080	-0.007	6461028	0.0500	0.0501	
2	5.880	5.883	-0.003	2411059	0.0500	0.0509	
						RPD = 1.65	
19 Dieldrin							
1	5.320	5.327	-0.007	7139807	0.0500	0.0504	
2	6.170	6.173	-0.003	2871733	0.0500	0.0514	
						RPD = 2.00	
20 Endrin							
1	5.557	5.563	-0.006	7291945	0.0500	0.0517	
2	6.493	6.497	-0.004	2600931	0.0500	0.0506	
						RPD = 2.20	
22 4,4'-DDD							
1	5.630	5.637	-0.007	6397494	0.0500	0.0503	
2	6.580	6.583	-0.003	2375901	0.0500	0.0532	
						RPD = 5.54	
23 Endosulfan II							
1	5.783	5.790	-0.007	6091734	0.0500	0.0502	
2	6.713	6.713	0.000	2314386	0.0500	0.0514	
						RPD = 2.37	
26 4,4'-DDT							
1	5.920	5.927	-0.007	6374216	0.0500	0.0469	
2	6.910	6.913	-0.003	2183745	0.0500	0.0485	
						RPD = 3.27	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.213	6.220	-0.007	3749548	0.0500	0.0380	
2	7.057	7.060	-0.003	1827327	0.0500	0.0509	
						RPD = 29.04	
29 Methoxychlor							
1	6.427	6.437	-0.010	2847268	0.0500	0.0489	
2	7.600	7.603	-0.003	1126799	0.0500	0.0545	
						RPD = 10.88	
30 Endosulfan sulfate							
1	6.657	6.663	-0.006	5960682	0.0500	0.0527	
2	7.343	7.347	-0.004	2185305	0.0500	0.0528	
						RPD = 0.19	
31 Endrin ketone							
1	6.943	6.950	-0.007	6233228	0.0500	0.0504	
2	7.903	7.907	-0.004	2371332	0.0500	0.0523	
						RPD = 3.65	

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

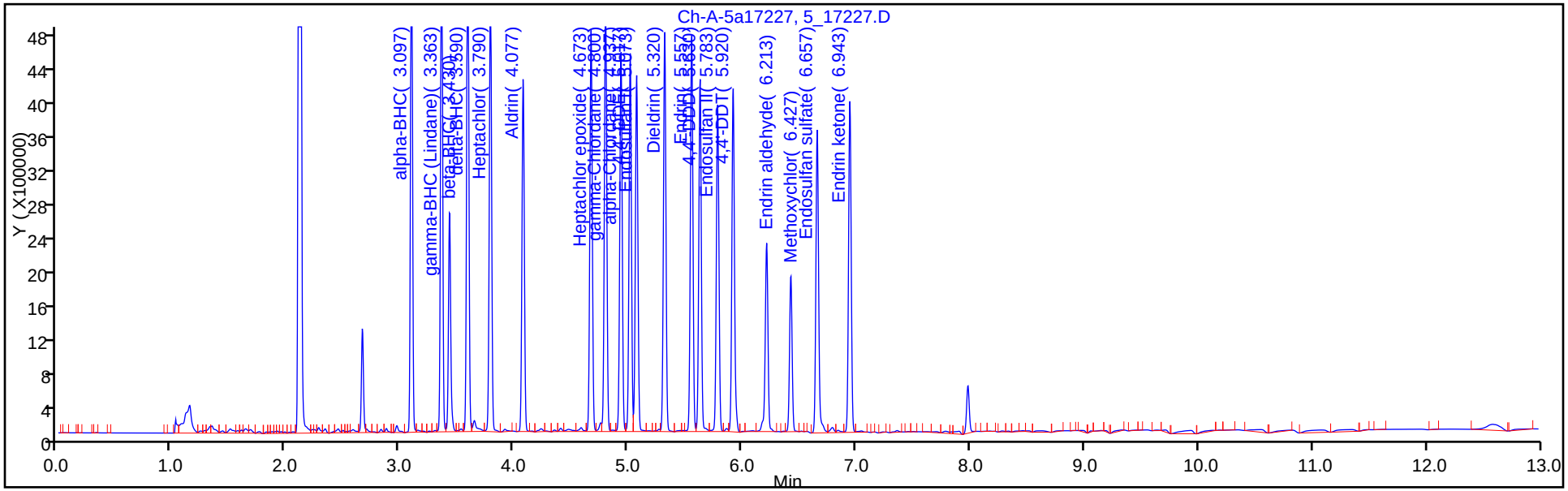
Report Date: 26-Aug-2017 10:08:26 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

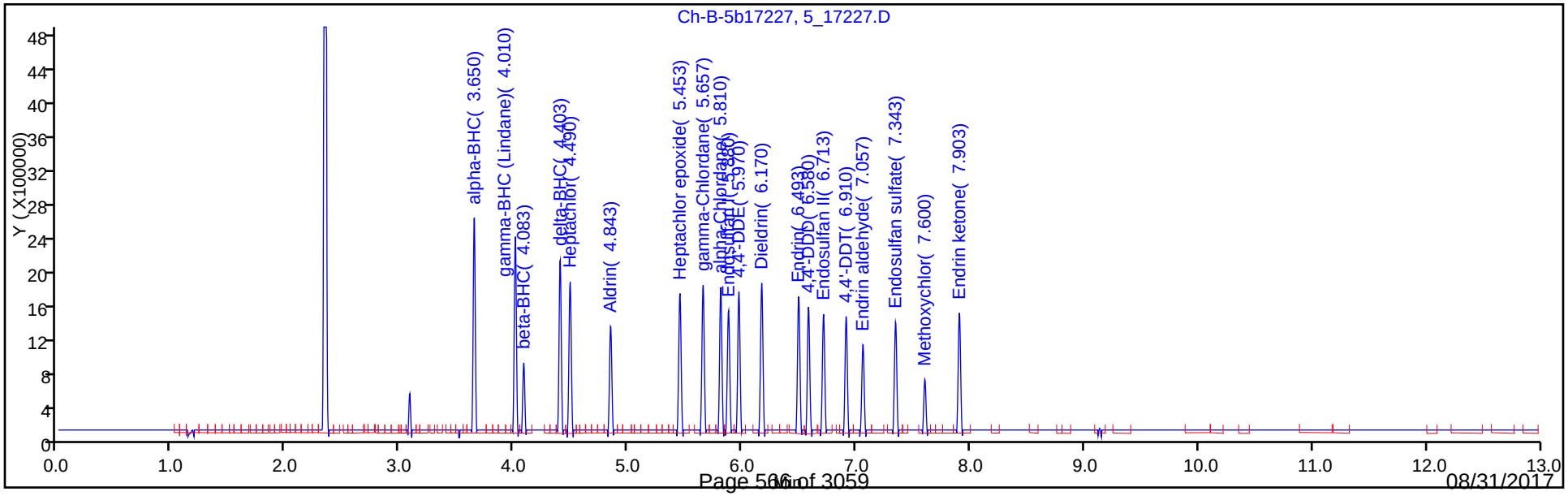
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17227.D

Injection Date:	25-Aug-2017 15:41:23	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	LCS 480-373892/2-A			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-373892/3-A

Matrix: Water | Lab File ID: 5_17228.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 250(mL) | Date Analyzed: 08/25/2017 16:01

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	0.408		0.050	0.0092
72-55-9	4,4'-DDE	0.336		0.050	0.012
50-29-3	4,4'-DDT	0.389		0.050	0.011
309-00-2	Aldrin	0.280		0.050	0.0081
319-84-6	alpha-BHC	0.290		0.050	0.0077
5103-71-9	alpha-Chlordane	0.347		0.050	0.015
319-85-7	beta-BHC	0.389		0.050	0.025
319-86-8	delta-BHC	0.400		0.050	0.010
60-57-1	Dieldrin	0.412		0.050	0.0098
959-98-8	Endosulfan I	0.410		0.050	0.011
33213-65-9	Endosulfan II	0.413		0.050	0.012
1031-07-8	Endosulfan sulfate	0.439		0.050	0.016
72-20-8	Endrin	0.421		0.050	0.014
7421-93-4	Endrin aldehyde	0.354		0.050	0.016
53494-70-5	Endrin ketone	0.411		0.050	0.012
58-89-9	gamma-BHC (Lindane)	0.355		0.050	0.0080
5103-74-2	gamma-Chlordane	0.360		0.050	0.011
76-44-8	Heptachlor	0.359		0.050	0.0085
1024-57-3	Heptachlor epoxide	0.396		0.050	0.0074
72-43-5	Methoxychlor	0.419		0.050	0.014

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	47		20-120
877-09-8	Tetrachloro-m-xylene	96		44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17228.D
Lims ID: LCSD 480-373892/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 25-Aug-2017 16:01:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.120	2.127	-0.007	54740917	0.5000	0.5000	
2	2.340	2.340	0.000	21186064	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.670	2.673	-0.003	1530354	0.0200	0.0191	
2	3.080	3.083	-0.003	635772	0.0200	0.0143	
						RPD = 28.67	
$ 2 DCB Decachlorobiphenyl							
1	7.980	7.987	-0.007	805715	0.0200	0.009427	
2	9.133	9.137	-0.004	219061	0.0200	0.007464	
						RPD = 23.24	
4 alpha-BHC							
1	3.100	3.103	-0.003	7885239	0.0500	0.0363	
2	3.647	3.650	-0.003	3320853	0.0500	0.0419	
						RPD = 14.45	
6 gamma-BHC (Lindane)							
1	3.363	3.367	-0.004	8535969	0.0500	0.0444	
2	4.007	4.010	-0.003	3235048	0.0500	0.0485	
						RPD = 8.88	
7 beta-BHC							
1	3.433	3.437	-0.004	3534499	0.0500	0.0487	
2	4.080	4.083	-0.003	1288055	0.0500	0.0471	
						RPD = 3.26	
8 delta-BHC							
1	3.593	3.597	-0.004	8924422	0.0500	0.0500	
2	4.400	4.403	-0.003	2946768	0.0500	0.0473	
						RPD = 5.50	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.793	3.797	-0.004	7459603	0.0500	0.0449	
2	4.487	4.490	-0.003	2707527	0.0500	0.0438	
						RPD = 2.36	
10 Aldrin							
1	4.080	4.083	-0.003	5942754	0.0500	0.0351	
2	4.843	4.847	-0.004	2051275	0.0500	0.0348	
						RPD = 0.80	
13 Heptachlor epoxide							
1	4.677	4.680	-0.003	7009049	0.0500	0.0495	
2	5.453	5.453	0.000	2671982	0.0500	0.0531	
						RPD = 7.04	
14 gamma-Chlordane							
1	4.803	4.807	-0.004	7558278	0.0500	0.0450	
2	5.657	5.657	0.000	2769646	0.0500	0.0489	
						RPD = 8.41	
15 alpha-Chlordane							
1	4.940	4.943	-0.003	6737410	0.0500	0.0433	
2	5.810	5.813	-0.003	2644122	0.0500	0.0495	
						RPD = 13.27	
16 4,4'-DDE							
1	5.020	5.023	-0.003	6422485	0.0500	0.0421	
2	5.970	5.973	-0.003	2575312	0.0500	0.0490	
						RPD = 15.28	
18 Endosulfan I							
1	5.077	5.080	-0.003	6344194	0.0500	0.0512	
2	5.880	5.883	-0.003	2388439	0.0500	0.0526	
						RPD = 2.61	
19 Dieldrin							
1	5.320	5.327	-0.007	6997865	0.0500	0.0515	
2	6.170	6.173	-0.003	2854933	0.0500	0.0533	
						RPD = 3.51	
20 Endrin							
1	5.560	5.563	-0.003	7118843	0.0500	0.0526	
2	6.493	6.497	-0.004	2575514	0.0500	0.0523	
						RPD = 0.69	
22 4,4'-DDD							
1	5.630	5.637	-0.007	6227380	0.0500	0.0510	
2	6.580	6.583	-0.003	2347923	0.0500	0.0548	
						RPD = 7.15	
23 Endosulfan II							
1	5.787	5.790	-0.003	6001354	0.0500	0.0516	
2	6.710	6.713	-0.003	2307550	0.0500	0.0535	
						RPD = 3.64	
26 4,4'-DDT							
1	5.923	5.927	-0.004	6344372	0.0500	0.0487	
2	6.910	6.913	-0.003	2149156	0.0500	0.0498	
						RPD = 2.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.220	-0.003	4181362	0.0500	0.0442	
2	7.057	7.060	-0.003	1834167	0.0500	0.0533	
						RPD = 18.59	
29 Methoxychlor							
1	6.430	6.437	-0.007	2924978	0.0500	0.0523	
2	7.600	7.603	-0.003	1095537	0.0500	0.0553	
						RPD = 5.49	
30 Endosulfan sulfate							
1	6.660	6.663	-0.003	5954190	0.0500	0.0549	
2	7.343	7.347	-0.004	2140388	0.0500	0.0540	
						RPD = 1.69	
31 Endrin ketone							
1	6.947	6.950	-0.003	6093419	0.0500	0.0514	
2	7.903	7.907	-0.004	2333605	0.0500	0.0537	
						RPD = 4.41	

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

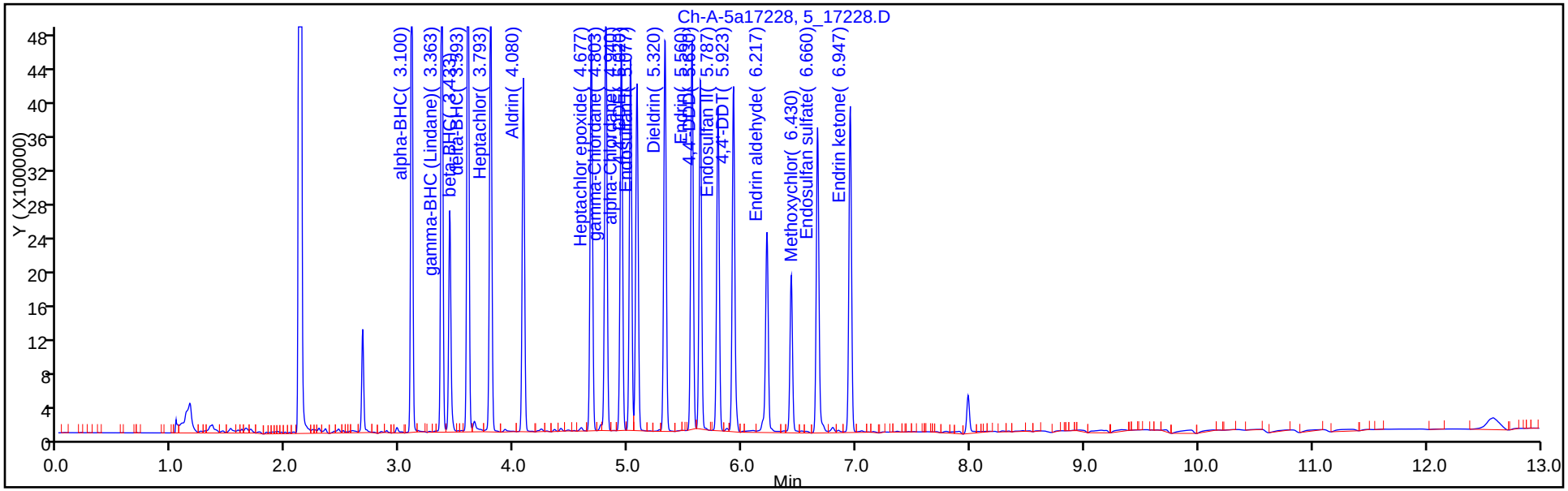
Report Date: 26-Aug-2017 10:08:27 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

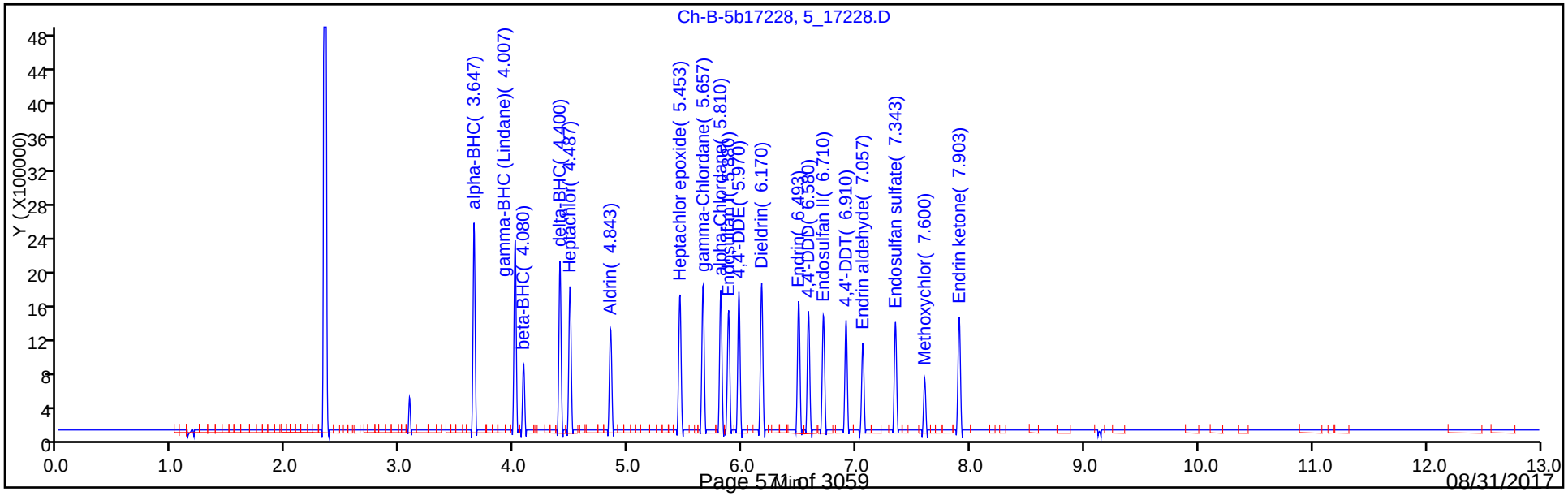
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17228.D

Injection Date:	25-Aug-2017 16:01:00	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	LCSD 480-373892/3-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-373892/3-A

Matrix: Water | Lab File ID: 5_17228.D

Analysis Method: 8081B | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/25/2017 07:30

Sample wt/vol: 250(mL) | Date Analyzed: 08/25/2017 16:01

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: RTX-CLPII ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374025 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	37		20-120
877-09-8	Tetrachloro-m-xylene	72		44-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17228.D
Lims ID: LCSD 480-373892/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 25-Aug-2017 16:01:00 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: Name:
Misc. Info.: Study: Channel B: I/F Serial#, CN10520009
Operator ID: BufTCHROM Instrument ID: HP6890-5

Method: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\IS-8081 6890-5.m
Limit Group: GC - 8081B IS ICAL
Last Update: 26-Aug-2017 10:08:21 Calib Date: 14-Aug-2017 08:53:53
Integrator: Falcon
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170814-64828.b\5_17093.D

Column 1 : Det: Ch-A-6A58132
Column 2 : Det: Ch-B-6b58132
Process Host: XAWRK029

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
* 44 1-Bromo-2-nitrobenzene							
1	2.120	2.127	-0.007	54740917	0.5000	0.5000	
2	2.340	2.340	0.000	21186064	0.5000	0.5000	
						RPD = 0.00	
$ 1 Tetrachloro-m-xylene							
1	2.670	2.673	-0.003	1530354	0.0200	0.0191	
2	3.080	3.083	-0.003	635772	0.0200	0.0143	
						RPD = 28.67	
$ 2 DCB Decachlorobiphenyl							
1	7.980	7.987	-0.007	805715	0.0200	0.009427	
2	9.133	9.137	-0.004	219061	0.0200	0.007464	
						RPD = 23.24	
4 alpha-BHC							
1	3.100	3.103	-0.003	7885239	0.0500	0.0363	
2	3.647	3.650	-0.003	3320853	0.0500	0.0419	
						RPD = 14.45	
6 gamma-BHC (Lindane)							
1	3.363	3.367	-0.004	8535969	0.0500	0.0444	
2	4.007	4.010	-0.003	3235048	0.0500	0.0485	
						RPD = 8.88	
7 beta-BHC							
1	3.433	3.437	-0.004	3534499	0.0500	0.0487	
2	4.080	4.083	-0.003	1288055	0.0500	0.0471	
						RPD = 3.26	
8 delta-BHC							
1	3.593	3.597	-0.004	8924422	0.0500	0.0500	
2	4.400	4.403	-0.003	2946768	0.0500	0.0473	
						RPD = 5.50	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
9 Heptachlor							
1	3.793	3.797	-0.004	7459603	0.0500	0.0449	
2	4.487	4.490	-0.003	2707527	0.0500	0.0438	
						RPD = 2.36	
10 Aldrin							
1	4.080	4.083	-0.003	5942754	0.0500	0.0351	
2	4.843	4.847	-0.004	2051275	0.0500	0.0348	
						RPD = 0.80	
13 Heptachlor epoxide							
1	4.677	4.680	-0.003	7009049	0.0500	0.0495	
2	5.453	5.453	0.000	2671982	0.0500	0.0531	
						RPD = 7.04	
14 gamma-Chlordane							
1	4.803	4.807	-0.004	7558278	0.0500	0.0450	
2	5.657	5.657	0.000	2769646	0.0500	0.0489	
						RPD = 8.41	
15 alpha-Chlordane							
1	4.940	4.943	-0.003	6737410	0.0500	0.0433	
2	5.810	5.813	-0.003	2644122	0.0500	0.0495	
						RPD = 13.27	
16 4,4'-DDE							
1	5.020	5.023	-0.003	6422485	0.0500	0.0421	
2	5.970	5.973	-0.003	2575312	0.0500	0.0490	
						RPD = 15.28	
18 Endosulfan I							
1	5.077	5.080	-0.003	6344194	0.0500	0.0512	
2	5.880	5.883	-0.003	2388439	0.0500	0.0526	
						RPD = 2.61	
19 Dieldrin							
1	5.320	5.327	-0.007	6997865	0.0500	0.0515	
2	6.170	6.173	-0.003	2854933	0.0500	0.0533	
						RPD = 3.51	
20 Endrin							
1	5.560	5.563	-0.003	7118843	0.0500	0.0526	
2	6.493	6.497	-0.004	2575514	0.0500	0.0523	
						RPD = 0.69	
22 4,4'-DDD							
1	5.630	5.637	-0.007	6227380	0.0500	0.0510	
2	6.580	6.583	-0.003	2347923	0.0500	0.0548	
						RPD = 7.15	
23 Endosulfan II							
1	5.787	5.790	-0.003	6001354	0.0500	0.0516	
2	6.710	6.713	-0.003	2307550	0.0500	0.0535	
						RPD = 3.64	
26 4,4'-DDT							
1	5.923	5.927	-0.004	6344372	0.0500	0.0487	
2	6.910	6.913	-0.003	2149156	0.0500	0.0498	
						RPD = 2.28	

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
28 Endrin aldehyde							
1	6.217	6.220	-0.003	4181362	0.0500	0.0442	
2	7.057	7.060	-0.003	1834167	0.0500	0.0533	
						RPD = 18.59	
29 Methoxychlor							
1	6.430	6.437	-0.007	2924978	0.0500	0.0523	
2	7.600	7.603	-0.003	1095537	0.0500	0.0553	
						RPD = 5.49	
30 Endosulfan sulfate							
1	6.660	6.663	-0.003	5954190	0.0500	0.0549	
2	7.343	7.347	-0.004	2140388	0.0500	0.0540	
						RPD = 1.69	
31 Endrin ketone							
1	6.947	6.950	-0.003	6093419	0.0500	0.0514	
2	7.903	7.907	-0.004	2333605	0.0500	0.0537	
						RPD = 4.41	

Reagents:

COPPER_00070	Amount Added: 1.00	Units: Packet	Run Reagent
1-Br2nit 50ng_00009	Amount Added: 10.00	Units: uL	Run Reagent

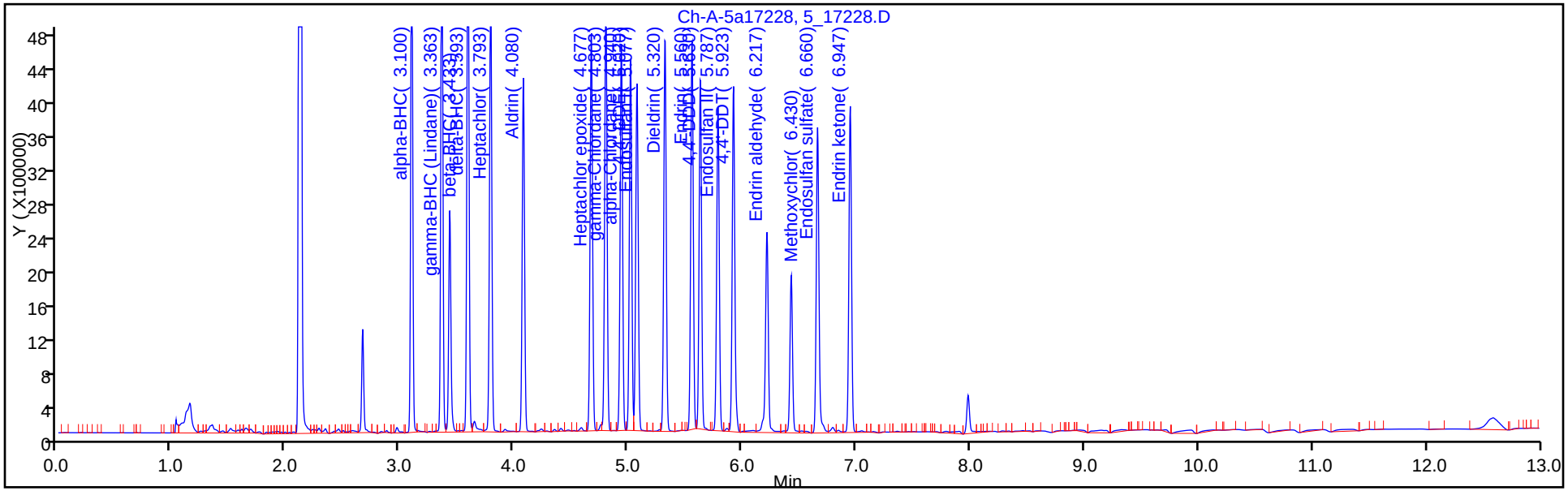
Report Date: 26-Aug-2017 10:08:27 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

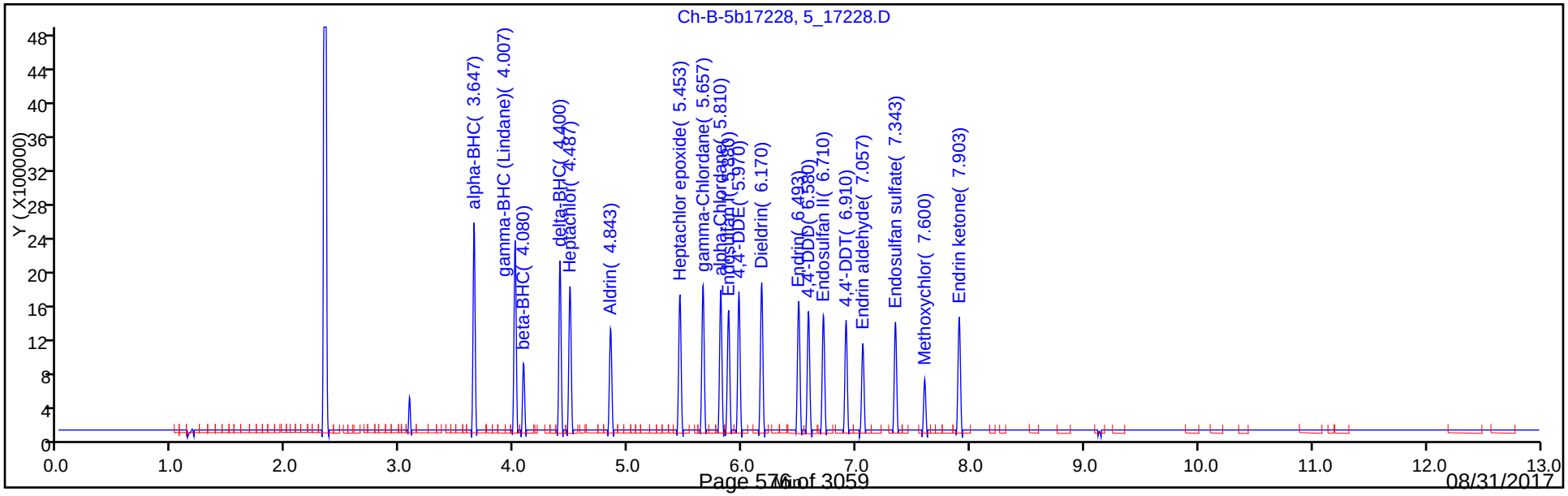
Data File: \\ChromNA\Buffalo\ChromData\HP6890-05\20170825-65154.b\5_17228.D

Injection Date:	25-Aug-2017 16:01:00	Instrument ID:	HP6890-5	Operator ID:	BufTCHROM
Lims ID:	LCSD 480-373892/3-A			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	IS-8081 6890-5	Limit Group:	GC - 8081B IS ICAL		

Y Scaling: Method Defined: Set to Absolute Y Value



Y Scaling: Method Defined: Set to Absolute Y Value



PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP6890-5 Start Date: 06/12/2017 16:23

Analysis Batch Number: 361742 End Date: 06/12/2017 19:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-361742/4 IC		06/12/2017 16:23	1		RTX-CLPI 0.53(mm)
STD1 480-361742/4 IC		06/12/2017 16:23	1		RTX-CLPII 0.53(mm)
STD2 480-361742/5 IC		06/12/2017 16:43	1		RTX-CLPI 0.53(mm)
STD2 480-361742/5 IC		06/12/2017 16:43	1		RTX-CLPII 0.53(mm)
STD3 480-361742/6 IC		06/12/2017 17:02	1		RTX-CLPI 0.53(mm)
STD3 480-361742/6 IC		06/12/2017 17:02	1		RTX-CLPII 0.53(mm)
STD4 480-361742/7 IC		06/12/2017 17:22	1		RTX-CLPI 0.53(mm)
STD4 480-361742/7 IC		06/12/2017 17:22	1		RTX-CLPII 0.53(mm)
STD5 480-361742/8 IC		06/12/2017 17:42	1		RTX-CLPI 0.53(mm)
STD5 480-361742/8 IC		06/12/2017 17:42	1		RTX-CLPII 0.53(mm)
ICV 480-361742/9		06/12/2017 18:01	1		RTX-CLPI 0.53(mm)
ICV 480-361742/9		06/12/2017 18:01	1		RTX-CLPII 0.53(mm)
STD1 480-361742/10 IC		06/12/2017 18:21	1	5_15019.D	RTX-CLPI 0.53(mm)
STD1 480-361742/10 IC		06/12/2017 18:21	1	5_15019.D	RTX-CLPII 0.53(mm)
STD2 480-361742/11 IC		06/12/2017 18:40	1	5_15020.D	RTX-CLPI 0.53(mm)
STD2 480-361742/11 IC		06/12/2017 18:40	1	5_15020.D	RTX-CLPII 0.53(mm)
STD3 480-361742/12 IC		06/12/2017 19:00	1	5_15021.D	RTX-CLPI 0.53(mm)
STD3 480-361742/12 IC		06/12/2017 19:00	1	5_15021.D	RTX-CLPII 0.53(mm)
STD4 480-361742/13 IC		06/12/2017 19:19	1	5_15022.D	RTX-CLPI 0.53(mm)
STD4 480-361742/13 IC		06/12/2017 19:19	1	5_15022.D	RTX-CLPII 0.53(mm)
STD5 480-361742/14 IC		06/12/2017 19:39	1	5_15023.D	RTX-CLPI 0.53(mm)
STD5 480-361742/14 IC		06/12/2017 19:39	1	5_15023.D	RTX-CLPII 0.53(mm)
ICV 480-361742/15		06/12/2017 19:59	1		RTX-CLPI 0.53(mm)
ICV 480-361742/15		06/12/2017 19:59	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP6890-5 Start Date: 08/14/2017 07:35

Analysis Batch Number: 371935 End Date: 08/14/2017 09:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-371935/4 IC		08/14/2017 07:35	1	5_17089.D	RTX-CLPI 0.53(mm)
STD1 480-371935/4 IC		08/14/2017 07:35	1	5_17089.D	RTX-CLPII 0.53(mm)
STD2 480-371935/5 IC		08/14/2017 07:55	1	5_17090.D	RTX-CLPI 0.53(mm)
STD2 480-371935/5 IC		08/14/2017 07:55	1	5_17090.D	RTX-CLPII 0.53(mm)
STD3 480-371935/6 ICIS		08/14/2017 08:14	1	5_17091.D	RTX-CLPI 0.53(mm)
STD3 480-371935/6 ICIS		08/14/2017 08:14	1	5_17091.D	RTX-CLPII 0.53(mm)
STD4 480-371935/7 IC		08/14/2017 08:34	1	5_17092.D	RTX-CLPI 0.53(mm)
STD4 480-371935/7 IC		08/14/2017 08:34	1	5_17092.D	RTX-CLPII 0.53(mm)
STD5 480-371935/8 IC		08/14/2017 08:53	1	5_17093.D	RTX-CLPI 0.53(mm)
STD5 480-371935/8 IC		08/14/2017 08:53	1	5_17093.D	RTX-CLPII 0.53(mm)
ICV 480-371935/9		08/14/2017 09:13	1		RTX-CLPI 0.53(mm)
ICV 480-371935/9		08/14/2017 09:13	1		RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP6890-5 Start Date: 08/25/2017 13:44

Analysis Batch Number: 374025 End Date: 08/25/2017 21:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 480-374025/4		08/25/2017 13:44	1	5_17221.D	RTX-CLPI 0.53(mm)
PEM 480-374025/4		08/25/2017 13:44	1	5_17221.D	RTX-CLPII 0.53(mm)
CCV 480-374025/5 CCVIS		08/25/2017 14:03	1	5_17222.D	RTX-CLPI 0.53(mm)
CCV 480-374025/5 CCVIS		08/25/2017 14:03	1	5_17222.D	RTX-CLPII 0.53(mm)
CCV 480-374025/6		08/25/2017 14:23	1		RTX-CLPI 0.53(mm)
CCV 480-374025/6		08/25/2017 14:23	1		RTX-CLPII 0.53(mm)
CCV 480-374025/7		08/25/2017 14:42	1	5_17224.D	RTX-CLPI 0.53(mm)
CCV 480-374025/7		08/25/2017 14:42	1	5_17224.D	RTX-CLPII 0.53(mm)
CCV 480-374025/8		08/25/2017 15:02	1		RTX-CLPI 0.53(mm)
CCV 480-374025/8		08/25/2017 15:02	1		RTX-CLPII 0.53(mm)
MB 480-373892/1-A		08/25/2017 15:22	1	5_17226.D	RTX-CLPI 0.53(mm)
MB 480-373892/1-A		08/25/2017 15:22	1	5_17226.D	RTX-CLPII 0.53(mm)
LCS 480-373892/2-A		08/25/2017 15:41	1	5_17227.D	RTX-CLPI 0.53(mm)
LCS 480-373892/2-A		08/25/2017 15:41	1	5_17227.D	RTX-CLPII 0.53(mm)
LCSD 480-373892/3-A		08/25/2017 16:01	1	5_17228.D	RTX-CLPI 0.53(mm)
LCSD 480-373892/3-A		08/25/2017 16:01	1	5_17228.D	RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 16:20	1		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 16:20	1		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 16:40	1		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 16:40	1		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 16:59	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 16:59	5		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 17:19	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 17:19	5		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 17:38	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 17:38	5		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 17:58	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 17:58	5		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 18:17	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 18:17	5		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 18:37	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 18:37	5		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 18:57	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 18:57	5		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 19:16	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 19:16	5		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 19:36	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 19:36	5		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 19:56	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 19:56	5		RTX-CLPII 0.53(mm)
ZZZZZ		08/25/2017 20:15	5		RTX-CLPI 0.53(mm)
ZZZZZ		08/25/2017 20:15	5		RTX-CLPII 0.53(mm)
480-123215-1		08/25/2017 20:35	1	5_17242.D	RTX-CLPI 0.53(mm)
480-123215-1		08/25/2017 20:35	1	5_17242.D	RTX-CLPII 0.53(mm)

PESTICIDES ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP6890-5 Start Date: 08/25/2017 13:44

Analysis Batch Number: 374025 End Date: 08/25/2017 21:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
480-123215-2		08/25/2017 20:54	5	5_17243.D	RTX-CLPI 0.53(mm)
480-123215-2		08/25/2017 20:54	5	5_17243.D	RTX-CLPII 0.53(mm)
480-123215-3		08/25/2017 21:14	1	5_17244.D	RTX-CLPI 0.53(mm)
480-123215-3		08/25/2017 21:14	1	5_17244.D	RTX-CLPII 0.53(mm)

PESTICIDES BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 373892 Batch Start Date: 08/25/17 07:30 Batch Analyst: Pollock, Jacob M

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	O_PCBLLsurr 00044	O8081LVIspike 00019	
MB 480-373892/1		3510C, 8081B		7 SU	250 mL	2 mL	1 mL		
LCS 480-373892/2		3510C, 8081B		7 SU	250 mL	2 mL	1 mL	1 mL	
LCSD 480-373892/3		3510C, 8081B		7 SU	250 mL	2 mL	1 mL	1 mL	
480-123215-D-1	NS-LDP-001-GW	3510C, 8081B	T	7 SU	245 mL	2 mL	1 mL		
480-123215-E-2	NS-LDP-002-GW	3510C, 8081B	T	7 SU	250 mL	2 mL	1 mL		
480-123215-A-3	NS-LDP-003-GW	3510C, 8081B	T	7 SU	240 mL	2 mL	1 mL		

Batch Notes	
Analyst ID - Concentration	JP
Exchange Solvent ID	4179079
Exchange Solvent Name	Hexane
Final Concentrator Volume	1 mL
Glass Wool ID	244155999
Na2SO4 ID	4166199
pH Paper ID	HC554612
Prep Solvent ID	4203384
Prep Solvent Name	MeCl2
Prep Solvent Volume Used	60 mL
Person's name who did the prep	JP
Analyst ID - Reagent Drop Witness	JP
Analyst ID - Spike Analyst	JP
Analyst ID - Spike Witness Analyst	JP
Sufficient volume for MS/MSD?	No
Vial ID	1609411071

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8082A

Polychlorinated Biphenyls (PCBs) (GC) by Method 8082A

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
NS-LDP-001-GW	480-123215-1	75	63	53	47
NS-LDP-002-GW	480-123215-2	73	59	53	47
NS-LDP-003-GW	480-123215-3	63	48	38	34
	MB 480-374278/1-A	61	47	40	34
	LCS 480-374278/2-A	67	48	35	31
	LCSD 480-374278/3-A	64	47	36	33

	QC LIMITS
TCX = Tetrachloro-m-xylene	39-121
DCBP = DCB Decachlorobiphenyl	19-120

Column to be used to flag recovery values

FORM II 8082A

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7_38-200.D

Lab ID: LCS 480-374278/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	4.00	2.90	73	62-130	
PCB-1260	4.00	2.72	68	56-123	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM III
PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 7_38-201.D

Lab ID: LCSD 480-374278/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
PCB-1016	4.00	2.83	71	3	50	62-130	
PCB-1260	4.00	2.72	68	0	50	56-123	

Column to be used to flag recovery and RPD values

FORM III 8082A

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: MB 480-374278/1-A

Matrix: Water Date Extracted: 08/28/2017 14:18

Lab File ID:(1) 7_38-199.D Lab File ID:(2) 7_38-199.D

Date Analyzed:(1) 08/29/2017 13:57 Date Analyzed:(2) 08/29/2017 13:57

Instrument ID:(1) HP6890-7 Instrument ID:(2) HP6890-7

GC Column:(1) ZB-5 ID: 0.53(mm) GC Column:(2) ZB-35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-374278/2-A	08/29/2017 14:13	08/29/2017 14:13
	LCSD 480-374278/3-A	08/29/2017 14:29	08/29/2017 14:29
NS-LDP-001-GW	480-123215-1	08/29/2017 17:26	08/29/2017 17:26
NS-LDP-002-GW	480-123215-2	08/29/2017 17:42	08/29/2017 17:42
NS-LDP-003-GW	480-123215-3	08/29/2017 17:58	08/29/2017 17:58

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: ICIS 480-349118/9 Date Analyzed: 03/28/2017 13:16

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 7_28-022.D Heated Purge: (Y/N) N

Calibration ID: 30036

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		14198667	1.17				
UPPER LIMIT		28397334	1.22				
LOWER LIMIT		7099334	1.12				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-374407/6		14377579	1.14				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: ICIS 480-349118/9 Date Analyzed: 03/28/2017 13:16

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 7_28-022.D Heated Purge: (Y/N) N

Calibration ID: 30037

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		25919091	1.05				
UPPER LIMIT		51838182	1.10				
LOWER LIMIT		12959546	1.00				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-374407/6		29760638	0.99				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: CCVIS 480-374407/6 Date Analyzed: 08/29/2017 12:23

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm)

Lab File ID (Standard): 7_38-193.D Heated Purge: (Y/N) N

Calibration ID: 30060

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		14377579	1.14				
UPPER LIMIT		28755158	1.19				
LOWER LIMIT		7188790	1.09				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-374407/7		14444088	1.14				
CCV 480-374407/8		14444554	1.14				
CCV 480-374407/9		14394266	1.14				
CCV 480-374407/10		14268974	1.14				
MB 480-374278/1-A		16097060	1.14				
LCS 480-374278/2-A		17137499	1.14				
LCSD 480-374278/3-A		17137486	1.14				
480-123215-1	NS-LDP-001-GW	14783526	1.14				
480-123215-2	NS-LDP-002-GW	15724330	1.14				
480-123215-3	NS-LDP-003-GW	17846054	1.14				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Sample No.: CCVIS 480-374407/6 Date Analyzed: 08/29/2017 12:23

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm)

Lab File ID (Standard): 7_38-193.D Heated Purge: (Y/N) N

Calibration ID: 30061

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		29760638	0.99				
UPPER LIMIT		59521276	1.04				
LOWER LIMIT		14880319	0.94				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-374407/7		29815322	1.00				
CCV 480-374407/8		29809648	0.99				
CCV 480-374407/9		29893900	0.99				
CCV 480-374407/10		29535996	0.99				
MB 480-374278/1-A		35971288	0.99				
LCS 480-374278/2-A		38177765	1.00				
LCSD 480-374278/3-A		38540918	1.00				
480-123215-1	NS-LDP-001-GW	33186121	1.00				
480-123215-2	NS-LDP-002-GW	35789108	1.00				
480-123215-3	NS-LDP-003-GW	41002861	1.00				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.05 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8082A

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-374278/2-A

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 08/29/2017 14:13 Date Analyzed (2): 08/29/2017 14:13

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.63	2.60	2.66	2.79	2.90	37.3
		2	2.79	2.75	2.81	2.86		
		3	2.99	2.96	3.02	2.88		
		4	3.07	3.04	3.10	3.07		
		5	3.14	3.11	3.17	2.90		
	2	1	2.23	2.20	2.26	2.06	1.99	
		2	2.53	2.50	2.56	1.96		
		3	2.64	2.61	2.67	1.96		
		4	2.73	2.70	2.76	1.98		
		5	3.00	2.97	3.03	1.98		
PCB-1260	1	1	4.86	4.83	4.89	2.96	2.72	30.9
		2	4.99	4.96	5.02	2.86		
		3	5.19	5.15	5.21	2.58		
		4	5.39	5.36	5.42	2.69		
		5	5.64	5.61	5.67	2.51		
	2	1	4.37	4.33	4.39	2.16	1.99	
		2	4.42	4.39	4.45	1.72		
		3	4.68	4.64	4.70	2.52		
		4	4.82	4.79	4.85	1.77		
		5	5.15	5.11	5.17	1.80		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 480-374278/3-A

Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7

Date Analyzed (1): 08/29/2017 14:29 Date Analyzed (2): 08/29/2017 14:29

GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.63	2.60	2.66	2.67	2.83	37.6
		2	2.78	2.75	2.81	2.77		
		3	2.99	2.96	3.02	2.81		
		4	3.07	3.04	3.10	3.01		
		5	3.14	3.11	3.17	2.86		
	2	1	2.23	2.20	2.26	2.01	1.93	
		2	2.53	2.50	2.56	1.92		
		3	2.64	2.61	2.67	1.91		
		4	2.73	2.70	2.76	1.90		
		5	3.00	2.97	3.03	1.91		
PCB-1260	1	1	4.86	4.83	4.89	2.93	2.72	35.7
		2	4.99	4.96	5.02	2.84		
		3	5.18	5.15	5.21	2.57		
		4	5.39	5.36	5.42	2.68		
		5	5.64	5.61	5.67	2.58		
	2	1	4.37	4.33	4.39	2.08	1.90	
		2	4.42	4.39	4.45	1.62		
		3	4.67	4.64	4.70	2.39		
		4	4.82	4.79	4.85	1.68		
		5	5.15	5.11	5.17	1.72		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-001-GW | Lab Sample ID: 480-123215-1

Matrix: Water | Lab File ID: 7_38-212.D

Analysis Method: 8082A | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 250(mL) | Date Analyzed: 08/29/2017 17:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25
37324-23-5	PCB-1262	ND		0.50	0.25
11100-14-4	PCB-1268	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	75		39-121
2051-24-3	DCB Decachlorobiphenyl	53		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-212.D
Lims ID: 480-123215-B-1-A
Client ID: NS-LDP-001-GW
Sample Type: Client
Inject. Date: 29-Aug-2017 17:26:42 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:36:24 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:36:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.141	1.139	0.002	14783526	0.5000	
2	0.996	0.994	0.002	33186121	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	2.050	2.048	0.002	546970	0.0150	
2	1.553	1.553	0.001	932347	0.0125	
					RPD = 18.01	
$ 15 DCB Decachlorobiphenyl						
1	7.068	7.068	0.000	228404	0.0107	
2	6.153	6.151	0.001	459601	0.009375	
					RPD = 12.73	

Reagents:

COPPER_00065 Amount Added: 1.00 Units: g Run Reagent
PCB IS 1B2NB_00037 Amount Added: 10.00 Units: uL Run Reagent

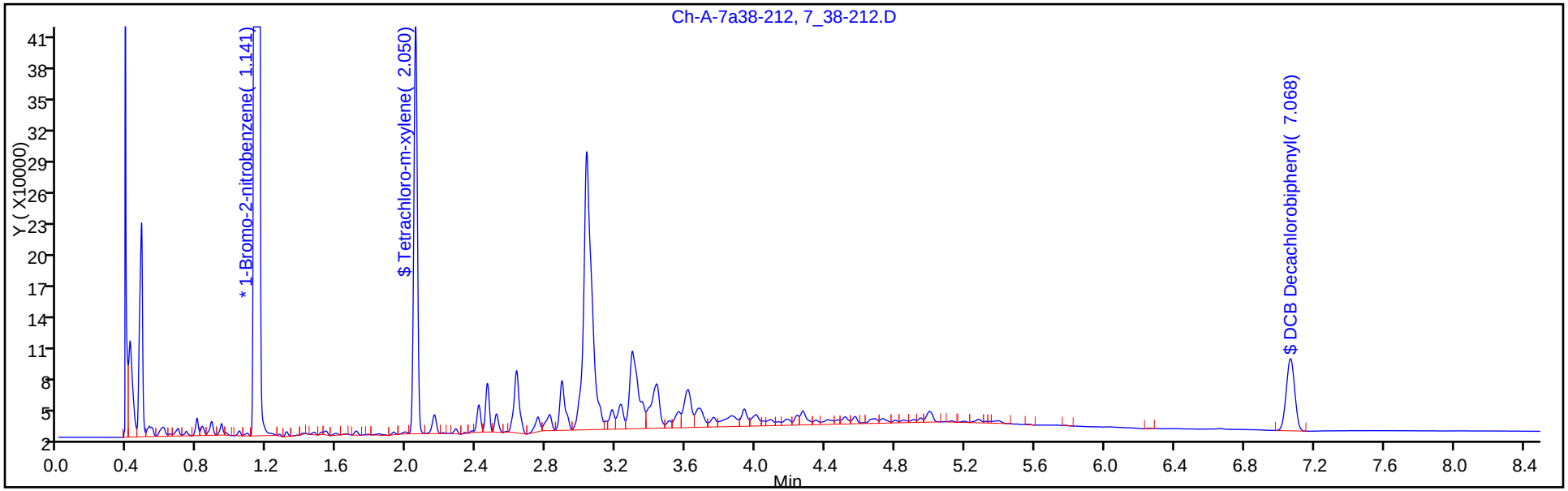
Report Date: 30-Aug-2017 10:36:24 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

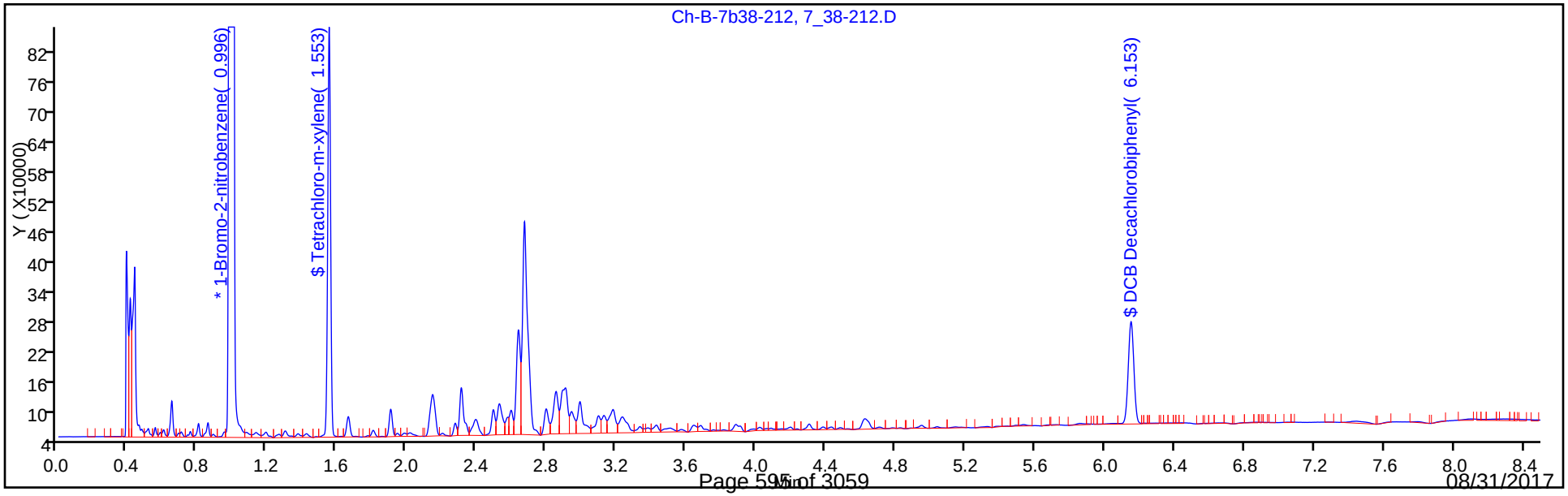
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-212.D

Injection Date:	29-Aug-2017 17:26:42	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-123215-B-1-A	Lab Sample ID:	480-123215-1	Worklist Smp#:	25
Client ID:	NS-LDP-001-GW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-001-GW | Lab Sample ID: 480-123215-1

Matrix: Water | Lab File ID: 7_38-212.D

Analysis Method: 8082A | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 250(mL) | Date Analyzed: 08/29/2017 17:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	63		39-121
2051-24-3	DCB Decachlorobiphenyl	47		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-212.D
Lims ID: 480-123215-B-1-A
Client ID: NS-LDP-001-GW
Sample Type: Client
Inject. Date: 29-Aug-2017 17:26:42 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:36:24 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:36:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.141	1.139	0.002	14783526	0.5000	
2	0.996	0.994	0.002	33186121	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	2.050	2.048	0.002	546970	0.0150	
2	1.553	1.553	0.001	932347	0.0125	
					RPD = 18.01	
$ 15 DCB Decachlorobiphenyl						
1	7.068	7.068	0.000	228404	0.0107	
2	6.153	6.151	0.001	459601	0.009375	
					RPD = 12.73	

Reagents:

COPPER_00065 Amount Added: 1.00 Units: g Run Reagent
PCB IS 1B2NB_00037 Amount Added: 10.00 Units: uL Run Reagent

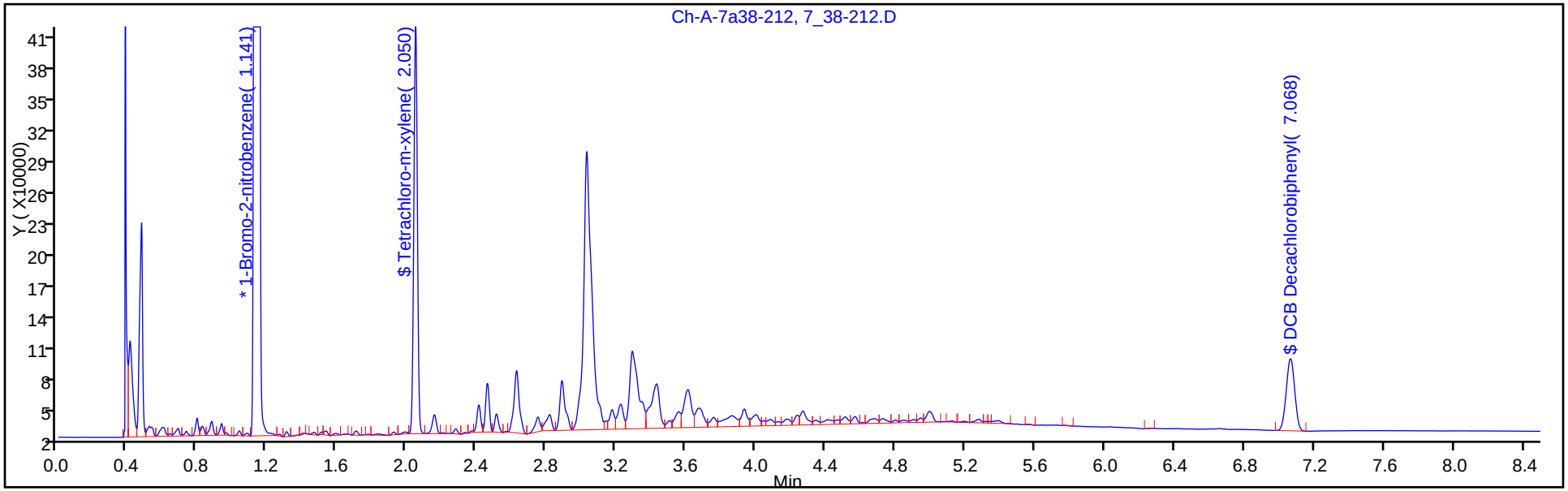
Report Date: 30-Aug-2017 10:36:25 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

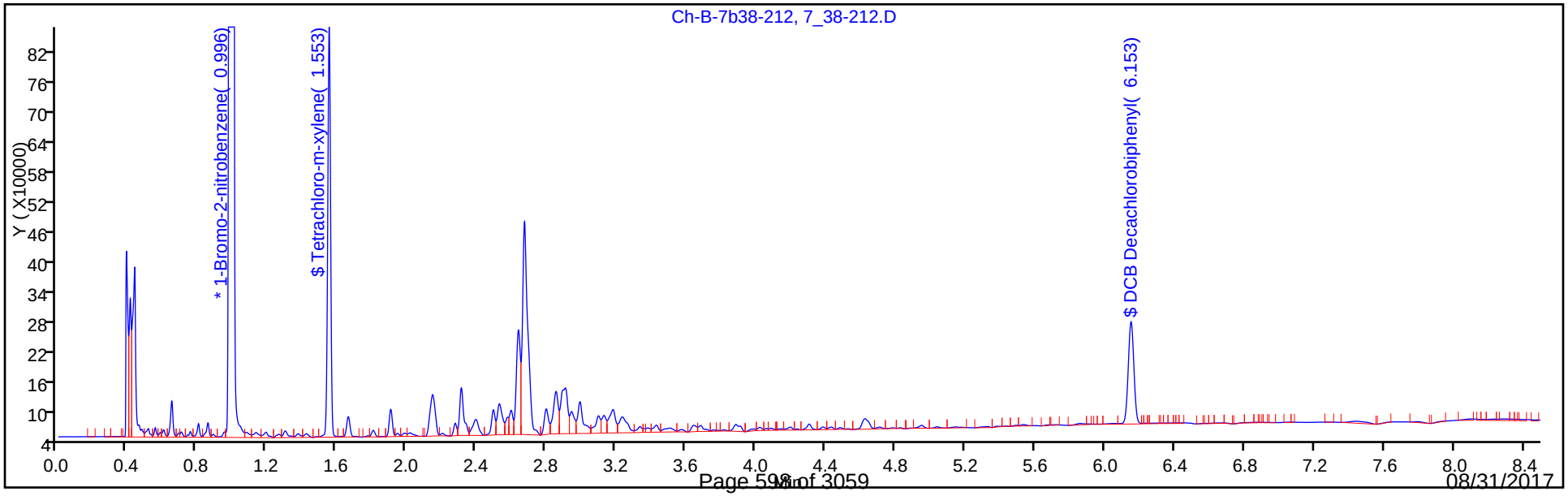
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-212.D

Injection Date:	29-Aug-2017 17:26:42	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-123215-B-1-A	Lab Sample ID:	480-123215-1	Worklist Smp#:	25
Client ID:	NS-LDP-001-GW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-002-GW | Lab Sample ID: 480-123215-2

Matrix: Water | Lab File ID: 7_38-213.D

Analysis Method: 8082A | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 240(mL) | Date Analyzed: 08/29/2017 17:42

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.52	0.18
11104-28-2	PCB-1221	ND		0.52	0.18
11141-16-5	PCB-1232	ND		0.52	0.18
53469-21-9	PCB-1242	ND		0.52	0.18
12672-29-6	PCB-1248	ND		0.52	0.18
11097-69-1	PCB-1254	ND		0.52	0.26
11096-82-5	PCB-1260	ND		0.52	0.26
37324-23-5	PCB-1262	ND		0.52	0.26
11100-14-4	PCB-1268	ND		0.52	0.26

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	73		39-121
2051-24-3	DCB Decachlorobiphenyl	53		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-213.D
Lims ID: 480-123215-C-2-A
Client ID: NS-LDP-002-GW
Sample Type: Client
Inject. Date: 29-Aug-2017 17:42:38 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:36:31 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:36:31

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.140	1.139	0.001	15724330	0.5000	
2	0.997	0.994	0.003	35789108	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	2.049	2.048	0.001	569720	0.0147	
2	1.554	1.553	0.002	944111	0.0117	
					RPD = 22.19	
$ 15 DCB Decachlorobiphenyl						
1	7.065	7.068	-0.003	243720	0.0107	
2	6.153	6.151	0.001	491884	0.009301	
					RPD = 13.86	

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

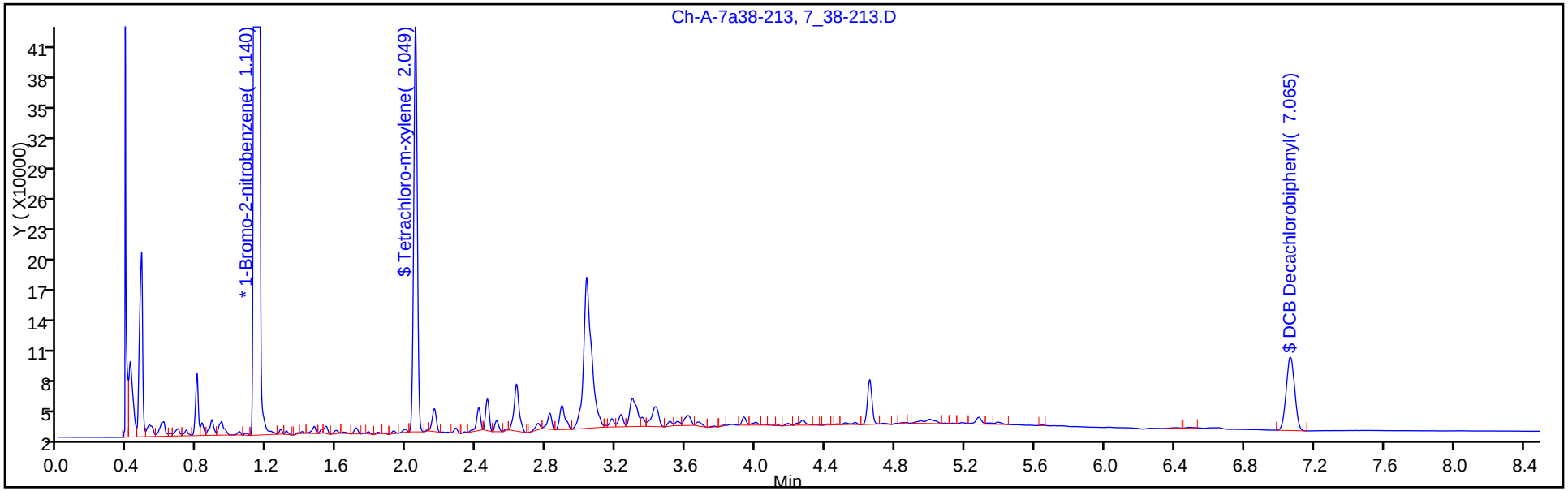
Report Date: 30-Aug-2017 10:36:31 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

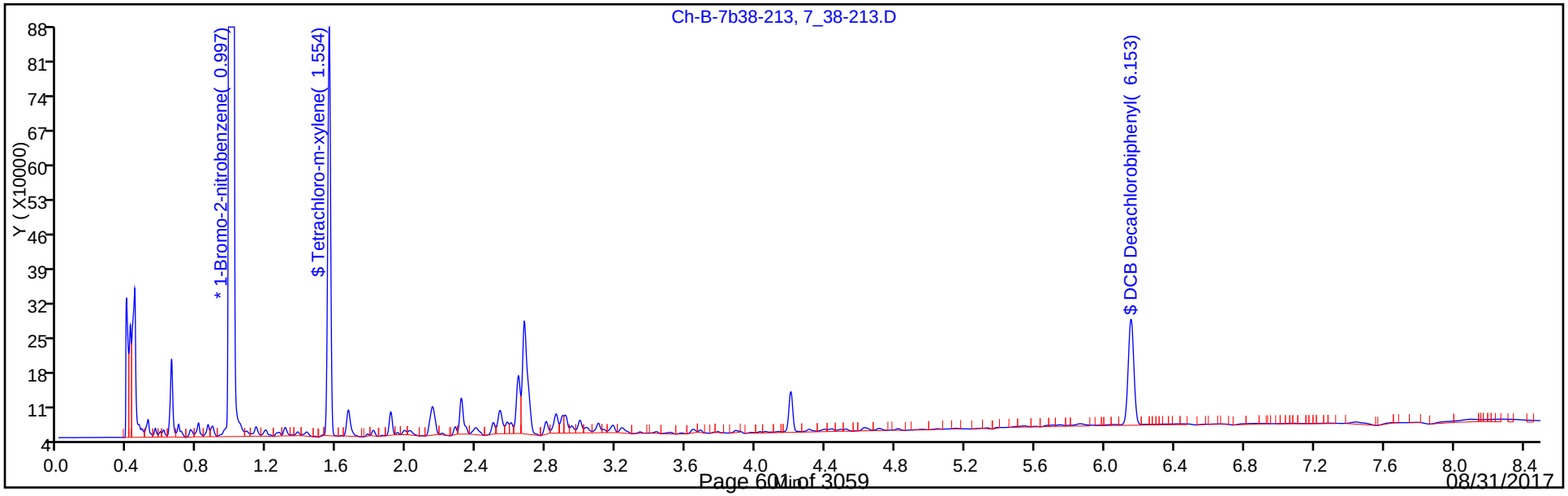
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-213.D

Injection Date:	29-Aug-2017 17:42:38	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-123215-C-2-A	Lab Sample ID:	480-123215-2	Worklist Smp#:	26
Client ID:	NS-LDP-002-GW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-002-GW | Lab Sample ID: 480-123215-2

Matrix: Water | Lab File ID: 7_38-213.D

Analysis Method: 8082A | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 240(mL) | Date Analyzed: 08/29/2017 17:42

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	59		39-121
2051-24-3	DCB Decachlorobiphenyl	47		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-213.D
Lims ID: 480-123215-C-2-A
Client ID: NS-LDP-002-GW
Sample Type: Client
Inject. Date: 29-Aug-2017 17:42:38 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:36:31 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:36:31

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.140	1.139	0.001	15724330	0.5000	
2	0.997	0.994	0.003	35789108	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	2.049	2.048	0.001	569720	0.0147	
2	1.554	1.553	0.002	944111	0.0117	
					RPD = 22.19	
$ 15 DCB Decachlorobiphenyl						
1	7.065	7.068	-0.003	243720	0.0107	
2	6.153	6.151	0.001	491884	0.009301	
					RPD = 13.86	

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

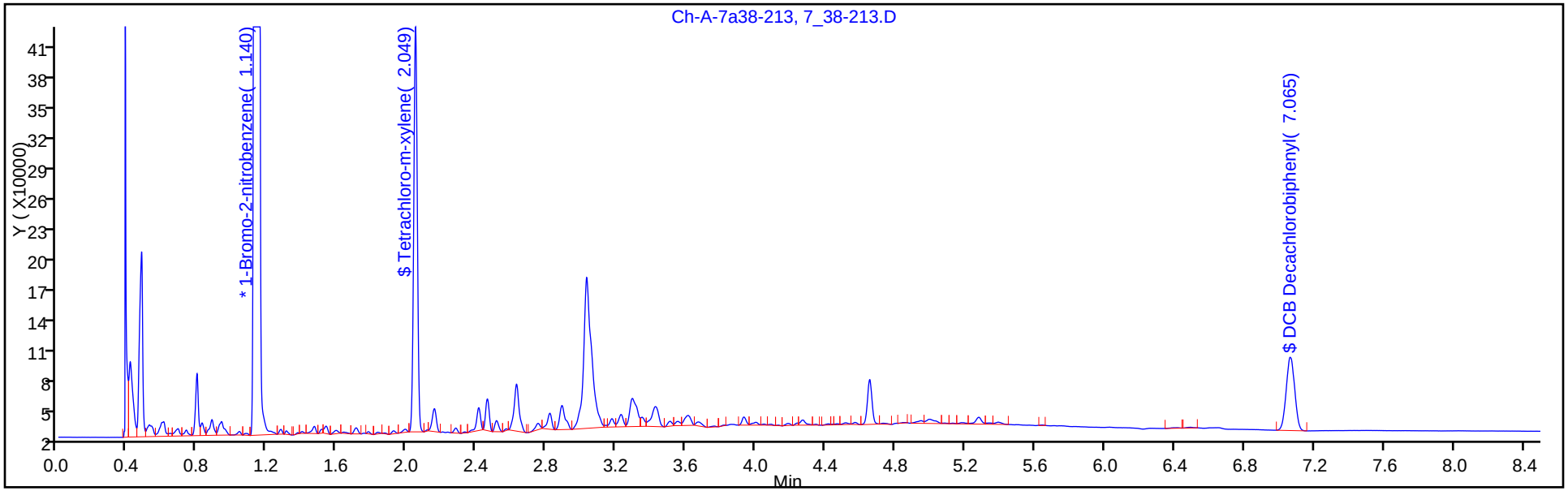
Report Date: 30-Aug-2017 10:36:32 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

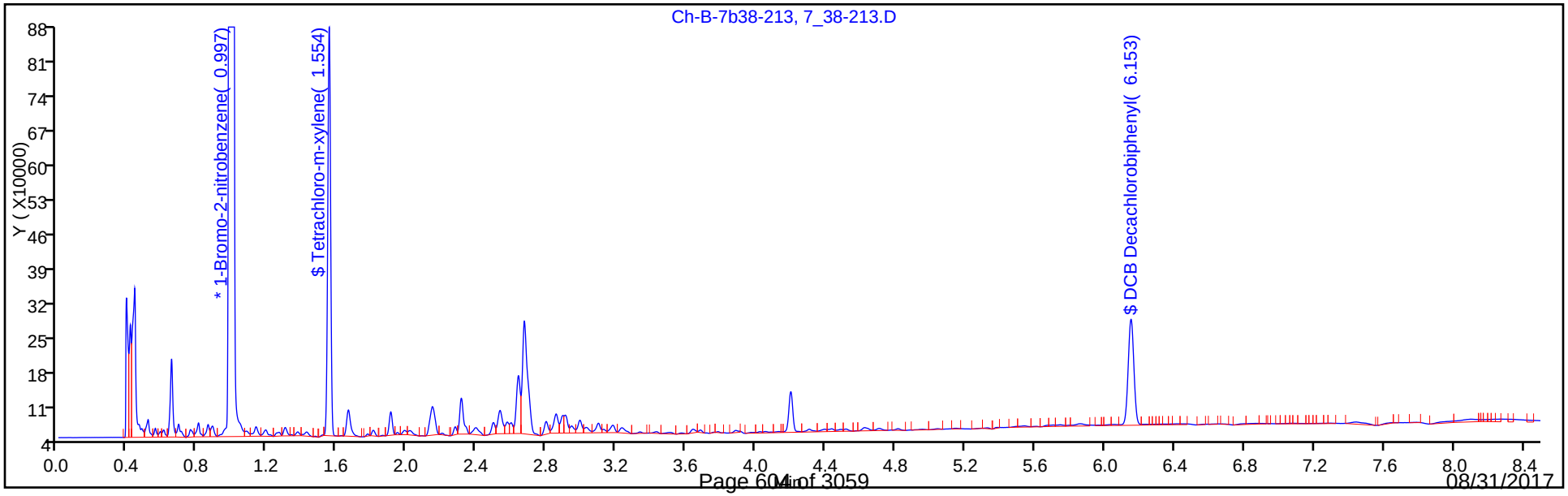
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-213.D

Injection Date:	29-Aug-2017 17:42:38	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-123215-C-2-A	Lab Sample ID:	480-123215-2	Worklist Smp#:	26
Client ID:	NS-LDP-002-GW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-003-GW | Lab Sample ID: 480-123215-3

Matrix: Water | Lab File ID: 7_38-214.D

Analysis Method: 8082A | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 240(mL) | Date Analyzed: 08/29/2017 17:58

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.52	0.18
11104-28-2	PCB-1221	ND		0.52	0.18
11141-16-5	PCB-1232	ND		0.52	0.18
53469-21-9	PCB-1242	ND		0.52	0.18
12672-29-6	PCB-1248	ND		0.52	0.18
11097-69-1	PCB-1254	ND		0.52	0.26
11096-82-5	PCB-1260	ND		0.52	0.26
37324-23-5	PCB-1262	ND		0.52	0.26
11100-14-4	PCB-1268	ND		0.52	0.26

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	63		39-121
2051-24-3	DCB Decachlorobiphenyl	38		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-214.D
Lims ID: 480-123215-E-3-A
Client ID: NS-LDP-003-GW
Sample Type: Client
Inject. Date: 29-Aug-2017 17:58:38 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:36:41 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:36:41

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.140	1.139	0.001	17846054	0.5000	
2	0.997	0.994	0.003	41002861	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	2.048	2.048	0.000	555886	0.0125	
2	1.553	1.553	0.001	886939	0.009600	
					RPD = 26.63	
$ 15 DCB Decachlorobiphenyl						
1	7.066	7.068	-0.002	201988	0.007619	
2	6.152	6.151	0.001	412101	0.006702	
					RPD = 12.81	

Reagents:

COPPER_00065 Amount Added: 1.00 Units: g Run Reagent
PCB IS 1B2NB_00037 Amount Added: 10.00 Units: uL Run Reagent

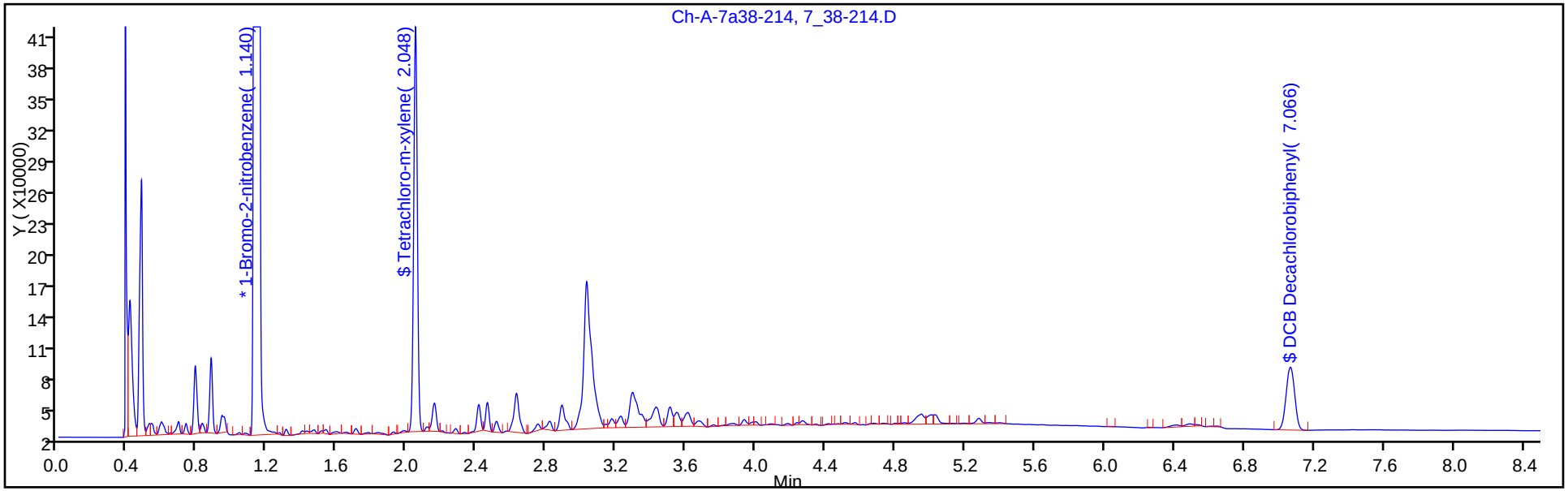
Report Date: 30-Aug-2017 10:36:41 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

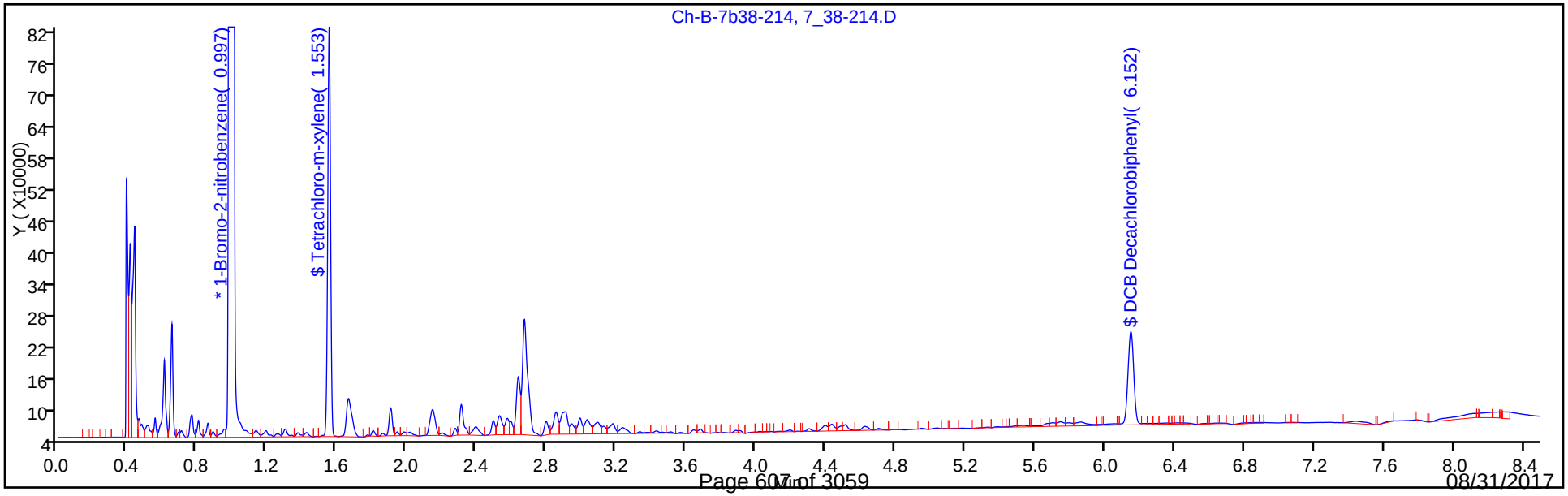
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-214.D

Injection Date:	29-Aug-2017 17:58:38	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-123215-E-3-A	Lab Sample ID:	480-123215-3	Worklist Smp#:	27
Client ID:	NS-LDP-003-GW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: NS-LDP-003-GW | Lab Sample ID: 480-123215-3

Matrix: Water | Lab File ID: 7_38-214.D

Analysis Method: 8082A | Date Collected: 08/24/2017 00:00

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 240(mL) | Date Analyzed: 08/29/2017 17:58

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	48		39-121
2051-24-3	DCB Decachlorobiphenyl	34		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-214.D
Lims ID: 480-123215-E-3-A
Client ID: NS-LDP-003-GW
Sample Type: Client
Inject. Date: 29-Aug-2017 17:58:38 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:36:41 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:36:41

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene						
1	1.140	1.139	0.001	17846054	0.5000	
2	0.997	0.994	0.003	41002861	0.5000	
					RPD = 0.00	
$ 6 Tetrachloro-m-xylene						
1	2.048	2.048	0.000	555886	0.0125	
2	1.553	1.553	0.001	886939	0.009600	
					RPD = 26.63	
$ 15 DCB Decachlorobiphenyl						
1	7.066	7.068	-0.002	201988	0.007619	
2	6.152	6.151	0.001	412101	0.006702	
					RPD = 12.81	

Reagents:

COPPER_00065 Amount Added: 1.00 Units: g Run Reagent
PCB IS 1B2NB_00037 Amount Added: 10.00 Units: uL Run Reagent

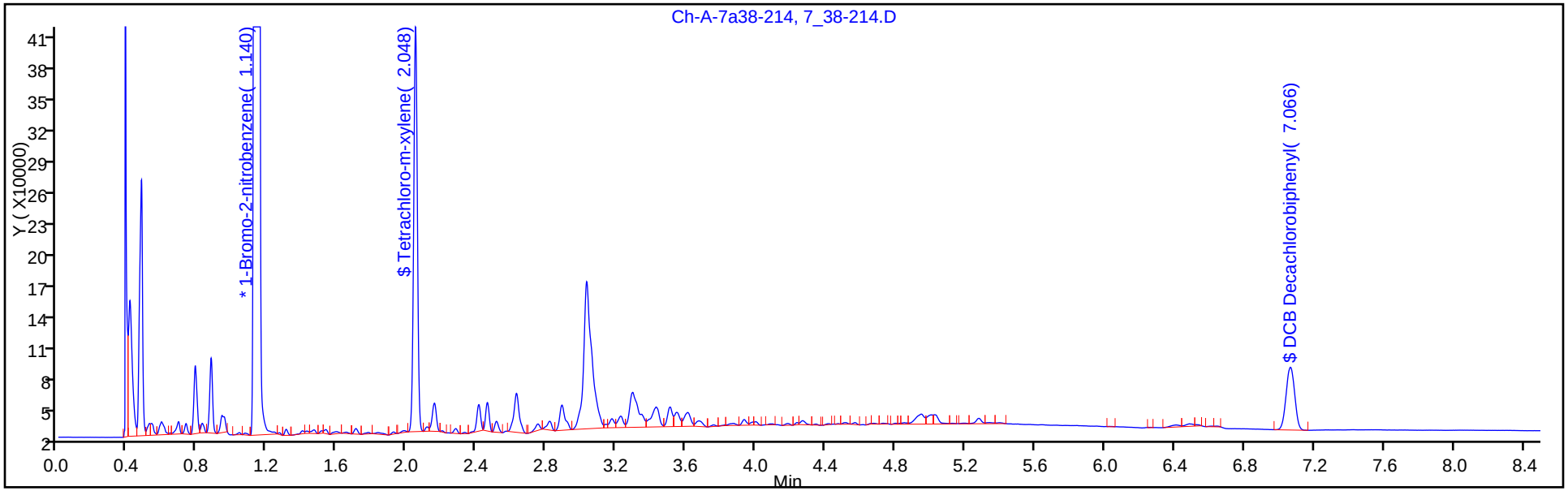
Report Date: 30-Aug-2017 10:36:42 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

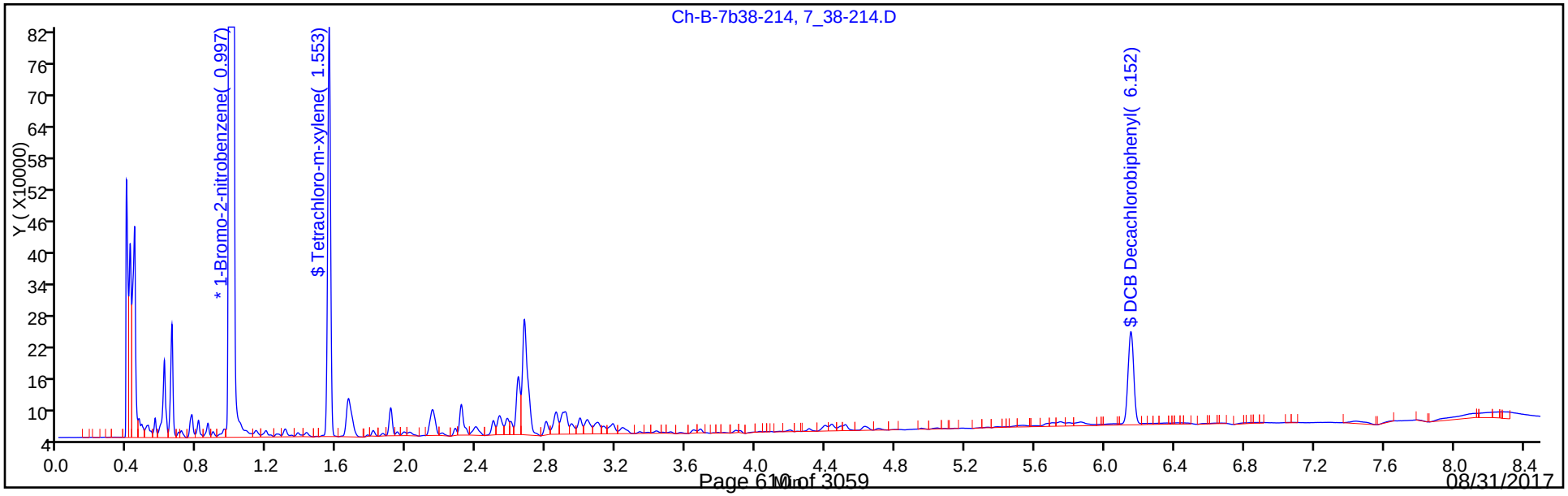
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-214.D

Injection Date:	29-Aug-2017 17:58:38	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	480-123215-E-3-A	Lab Sample ID:	480-123215-3	Worklist Smp#:	27
Client ID:	NS-LDP-003-GW				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30036

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0727 0.0377	0.0494 0.0361	0.0465	0.0424	0.0394	Lin1	0.0008	0.0365							0.9990		0.9900
PCB-1016 Peak 2	0.0585 0.0232	0.0298 0.0223	0.0283	0.0258	0.0242	Lin1	0.0006	0.0222							0.9990		0.9900
PCB-1016 Peak 3	0.1077 0.0804	0.0925 0.0789	0.0895	0.0843	0.0825	Lin1	0.0007	0.0794							1.0000		0.9900
PCB-1016 Peak 4	0.0511 0.0299	0.0386 0.0293	0.0358	0.0325	0.0310	Lin1	0.0005	0.0293							1.0000		0.9900
PCB-1016 Peak 5	0.0291 0.0206	0.0253 0.0204	0.0242	0.0220	0.0213	Lin1	0.0002	0.0205							1.0000		0.9900
PCB-1260 Peak 1	0.0967 0.0619	0.0726 0.0627	0.0693	0.0646	0.0627	Lin1	0.0006	0.0619							1.0000		0.9900
PCB-1260 Peak 2	0.0510 0.0347	0.0421 0.0351	0.0401	0.0371	0.0351	Lin1	0.0004	0.0348							1.0000		0.9900
PCB-1260 Peak 3	0.0488 0.0327	0.0400 0.0332	0.0377	0.0351	0.0333	Lin1	0.0003	0.0328							1.0000		0.9900
PCB-1260 Peak 4	0.1164 0.0835	0.0939 0.0834	0.0883	0.0855	0.0833	Lin1	0.0006	0.0829							1.0000		0.9900
PCB-1260 Peak 5	0.0612 0.0390	0.0474 0.0395	0.0445	0.0418	0.0393	Lin1	0.0004	0.0390							1.0000		0.9900
Tetrachloro-m-xylene	2.3376 1.2380	1.5476 1.1922	1.4647	1.3455	1.2499	Lin1	0.0006	1.1960							1.0000		0.9900
DCB Decachlorobiphenyl	1.7081 0.7011	0.9136 0.6860	0.8692	0.8076	0.7337	Lin1	0.0005	0.6816							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30036

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	40090 1069406	70180 1990674	131166	240440	559237	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	32281 657284	42348 1229448	79759	146148	343391	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	59419 2281855	131470 4351045	252373	477683	1171814	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	28193 847778	54848 1614519	101002	183983	439612	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	16055 585173	35957 1125851	68213	124672	302019	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	53350 1757860	103183 3456088	195331	366134	889920	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	28146 985992	59743 1936068	113127	209980	497820	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	26897 928651	56806 1828525	106177	198801	472274	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	64230 2370953	133445 4599282	248968	484581	1182397	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	33766 1105773	67285 2179578	125509	236680	558396	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	32243 878514	54964 1643301	103225	190560	443674	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	23559 497557	32445 945567	61259	114381	260424	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Mar-2017 12:44:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:37 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 13:28:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13783622	0.5000	0.5000	
2	1.050	1.049	0.001	25196320	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.091	0.000	1643301	0.0500	0.0494	M
2	1.630	1.630	0.000	2759910	0.0500	0.0493	
						RPD = 0.19	
9 PCB-1016							M
1	2.680	2.680	0.000	1990674	2.00	1.96	
1	2.833	2.833	0.000	1229448	2.00	1.98	
1	3.038	3.038	0.000	4351045	2.00	1.98	
1	3.124	3.124	0.000	1614519	2.00	1.98	
1	3.188	3.188	0.000	1125851	2.00	1.98	
		Average of Peak Amounts =				1.98	
2	2.323	2.322	0.000	3225340	2.00	1.95	M
2	2.630	2.629	0.001	6960596	2.00	1.97	M
2	2.741	2.740	0.001	2614031	2.00	1.96	M
2	2.833	2.832	0.000	1765496	2.00	1.97	M
2	3.108	3.108	0.000	3029614	2.00	1.96	M
		Average of Peak Amounts =				1.96	
						RPD = 0.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	3456088	2.00	2.02	
1	5.049	5.050	-0.001	1936068	2.00	2.01	
1	5.243	5.241	0.001	1828525	2.00	2.01	
1	5.448	5.448	0.000	4599282	2.00	2.01	
1	5.705	5.704	0.001	2179578	2.00	2.02	
		Average of Peak Amounts =				2.01	
2	4.474	4.473	0.001	3578378	2.00	2.00	M
2	4.526	4.525	0.001	3267180	2.00	2.00	M
2	4.852	4.850	0.002	2555055	2.00	2.00	M
2	4.926	4.925	0.001	8387014	2.00	2.03	M
2	5.256	5.256	0.000	5066416	2.00	2.03	M
		Average of Peak Amounts =				2.01	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							M
1	7.176	7.173	0.003	945567	0.0500	0.0496	
2	6.309	6.309	0.000	1802857	0.0500	0.0500	M
						RPD = 0.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00005 Amount Added: 1.00 Units: mL

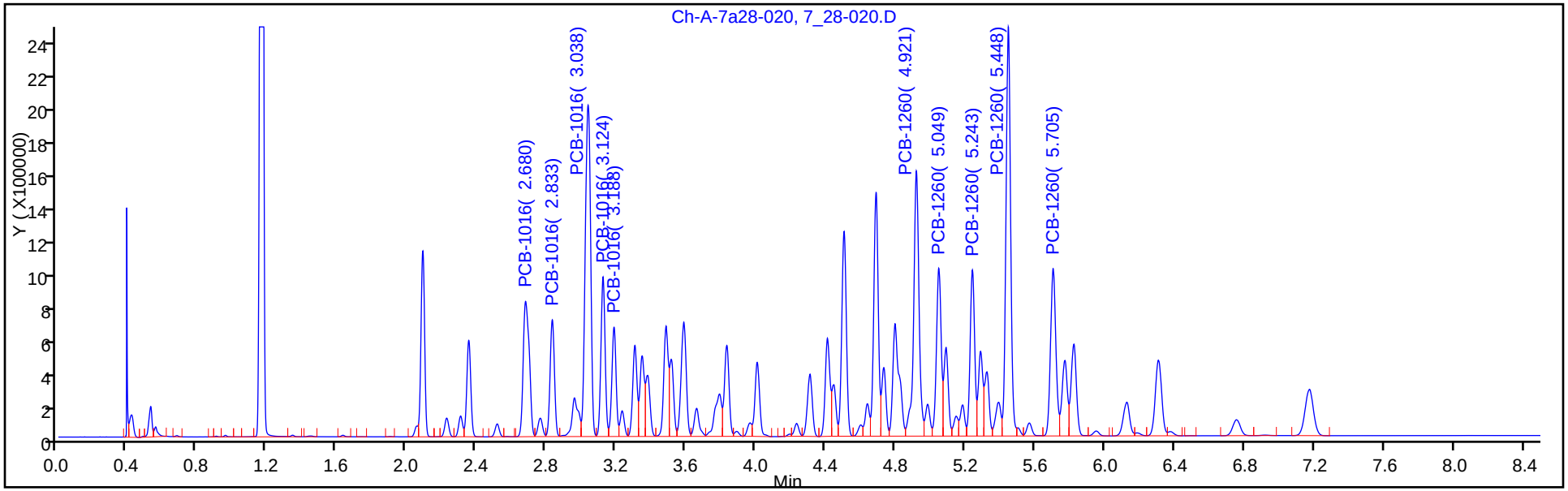
Report Date: 29-Mar-2017 10:53:38 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

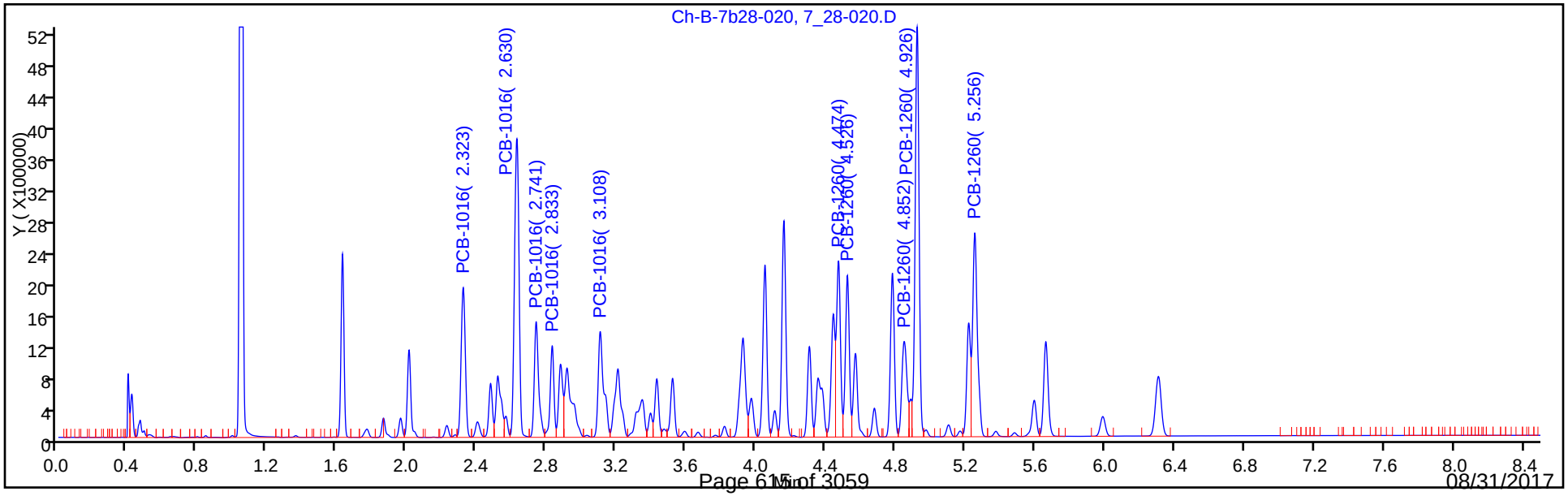
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date:	28-Mar-2017 12:44:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

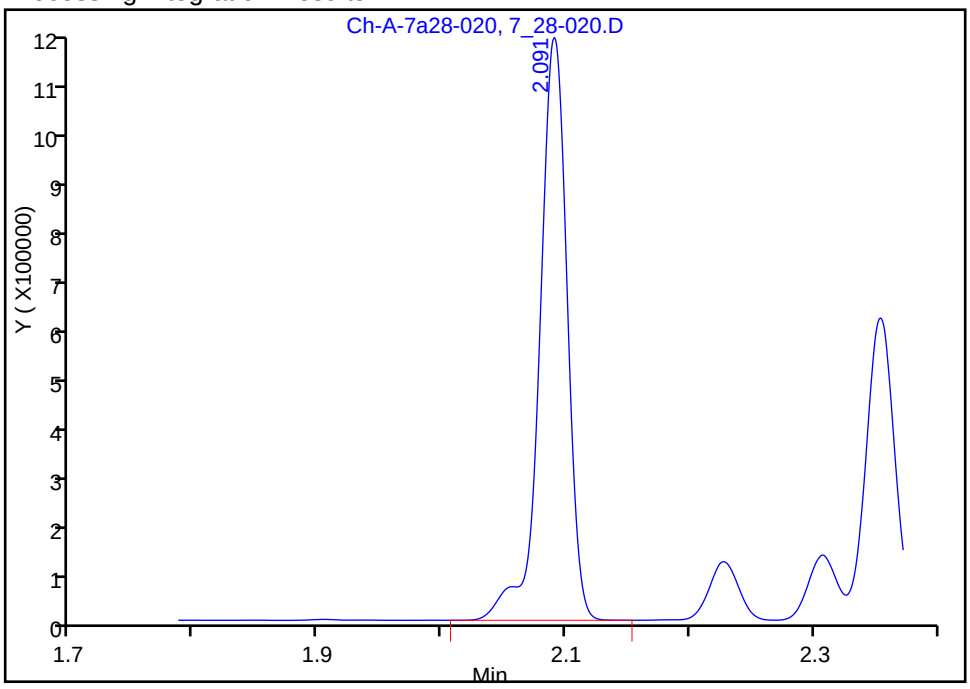
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

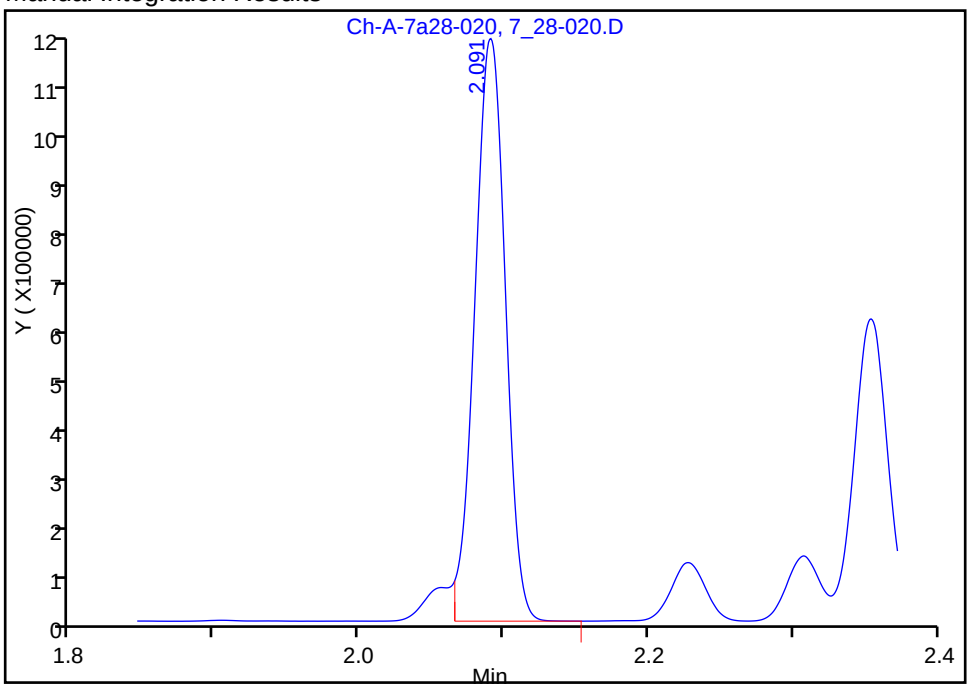
Processing Integration Results

RT: 2.09
Area: 1735709
Amount: 0.050426
Amount Units: ng/uL



Manual Integration Results

RT: 2.09
Area: 1643301
Amount: 0.049368
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 13:28:05
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Mar-2017 13:00:25 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:41 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	14192996	0.5000	0.5000	
2	1.051	1.049	0.002	25860623	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.091	2.091	0.000	878514	0.0250	0.0254	
2	1.630	1.630	0.000	1443081	0.0250	0.0250	
						RPD = 1.51	
9 PCB-1016							M
1	2.680	2.680	0.000	1069406	1.00	1.01	
1	2.833	2.833	0.000	657284	1.00	1.01	
1	3.037	3.038	-0.001	2281855	1.00	1.00	
1	3.124	3.124	0.000	847778	1.00	1.00	
1	3.188	3.188	0.000	585173	1.00	1.00	
		Average of Peak Amounts =				1.01	
2	2.322	2.322	0.000	1750650	1.00	1.02	M
2	2.630	2.629	0.001	3648843	1.00	1.00	M
2	2.740	2.740	0.000	1382864	1.00	1.00	M
2	2.833	2.832	0.000	930174	1.00	1.00	M
2	3.108	3.108	0.000	1590176	1.00	1.00	M
		Average of Peak Amounts =				1.01	
						RPD = 0.01	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	1757860	1.00	0.99	
1	5.049	5.050	-0.001	985992	1.00	0.9889	
1	5.243	5.241	0.001	928651	1.00	0.9864	
1	5.448	5.448	0.000	2370953	1.00	1.00	
1	5.705	5.704	0.001	1105773	1.00	0.9872	
		Average of Peak Amounts =				0.99	
2	4.475	4.473	0.002	1832024	1.00	0.99	M
2	4.526	4.525	0.001	1681113	1.00	1.00	M
2	4.853	4.850	0.002	1316272	1.00	1.00	M
2	4.926	4.925	0.001	4197806	1.00	0.9885	M
2	5.256	5.256	0.000	2530850	1.00	0.9857	M
		Average of Peak Amounts =				0.99	
						RPD = 0.22	
$ 15 DCB Decachlorobiphenyl							
1	7.176	7.173	0.003	497557	0.0250	0.0250	
2	6.310	6.309	0.001	932252	0.0250	0.0250	
						RPD = 0.14	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00006 Amount Added: 1.00 Units: mL

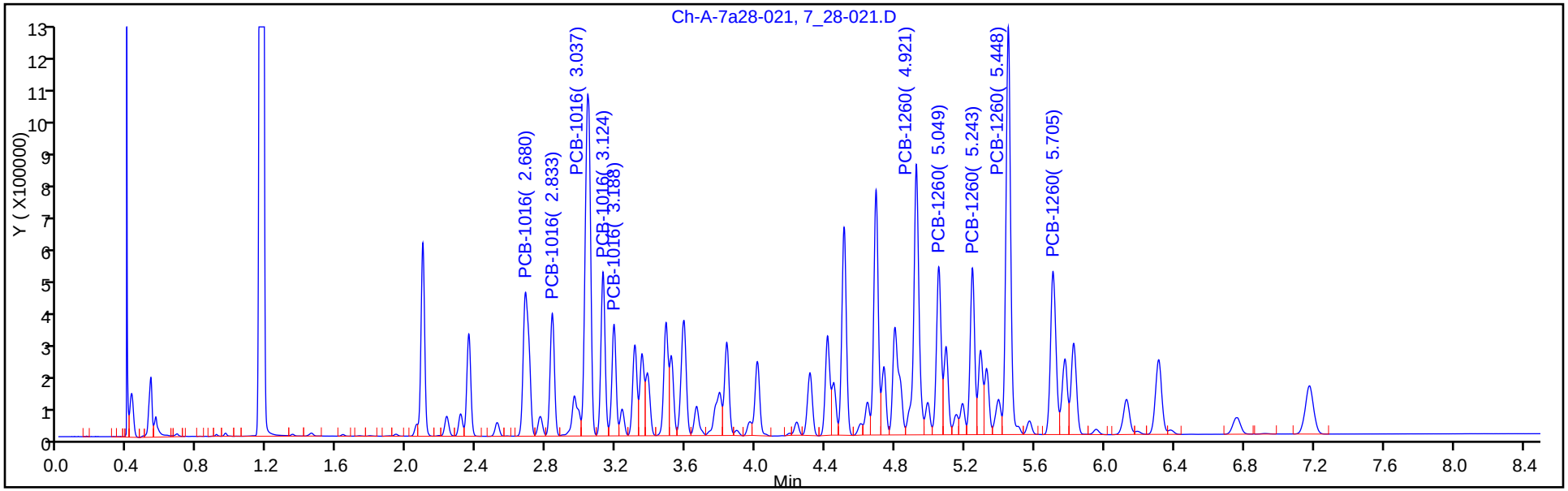
Report Date: 29-Mar-2017 10:53:41 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

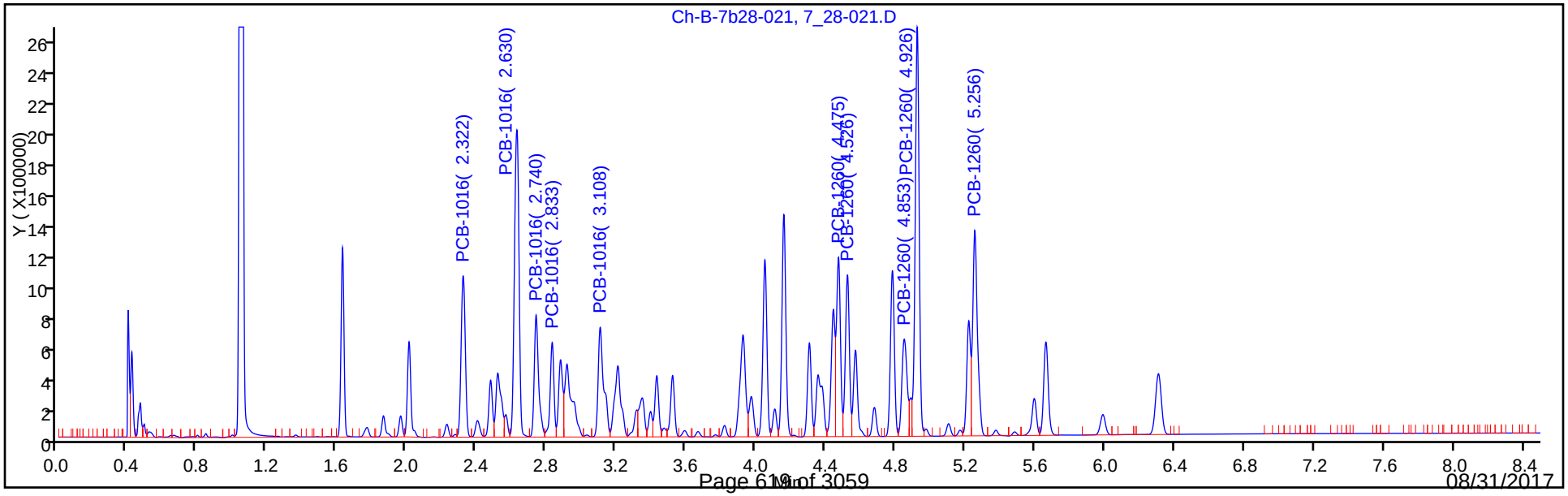
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date:	28-Mar-2017 13:00:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-Mar-2017 13:16:37 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:26

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14198667	0.5000	0.5000	
2	1.050	1.050	0.000	25919091	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.092	2.092	0.000	443674	0.0125	0.0126	
2	1.629	1.629	0.000	736370	0.0125	0.0127	
						RPD = 0.55	
9 PCB-1016							M
1	2.681	2.681	0.000	559237	0.5000	0.5184	
1	2.834	2.834	0.000	343391	0.5000	0.5153	
1	3.038	3.038	0.000	1171814	0.5000	0.5111	
1	3.126	3.126	0.000	439612	0.5000	0.5111	
1	3.188	3.188	0.000	302019	0.5000	0.5088	
		Average of Peak Amounts =				0.5129	
2	2.322	2.322	0.000	924630	0.5000	0.5229	M
2	2.631	2.631	0.000	1883383	0.5000	0.5098	M
2	2.741	2.741	0.000	717244	0.5000	0.5121	M
2	2.833	2.833	0.000	478556	0.5000	0.5090	M
2	3.108	3.108	0.000	824152	0.5000	0.5114	M
		Average of Peak Amounts =				0.5131	
						RPD = 0.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	889920	0.5000	0.4959	
1	5.051	5.051	0.000	497820	0.5000	0.4940	
1	5.243	5.243	0.000	472274	0.5000	0.4962	
1	5.449	5.449	0.000	1182397	0.5000	0.4951	
1	5.706	5.706	0.000	558396	0.5000	0.4927	
		Average of Peak Amounts =				0.4948	
2	4.474	4.474	0.000	937560	0.5000	0.5023	M
2	4.526	4.526	0.000	846078	0.5000	0.4970	M
2	4.850	4.850	0.000	654832	0.5000	0.4930	M
2	4.926	4.926	0.000	2070270	0.5000	0.4860	M
2	5.256	5.256	0.000	1260909	0.5000	0.4890	M
		Average of Peak Amounts =				0.4935	
						RPD = 0.26	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.000	260424	0.0125	0.0128	
2	6.310	6.310	0.000	476855	0.0125	0.0126	
						RPD = 1.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00005 Amount Added: 1.00 Units: mL

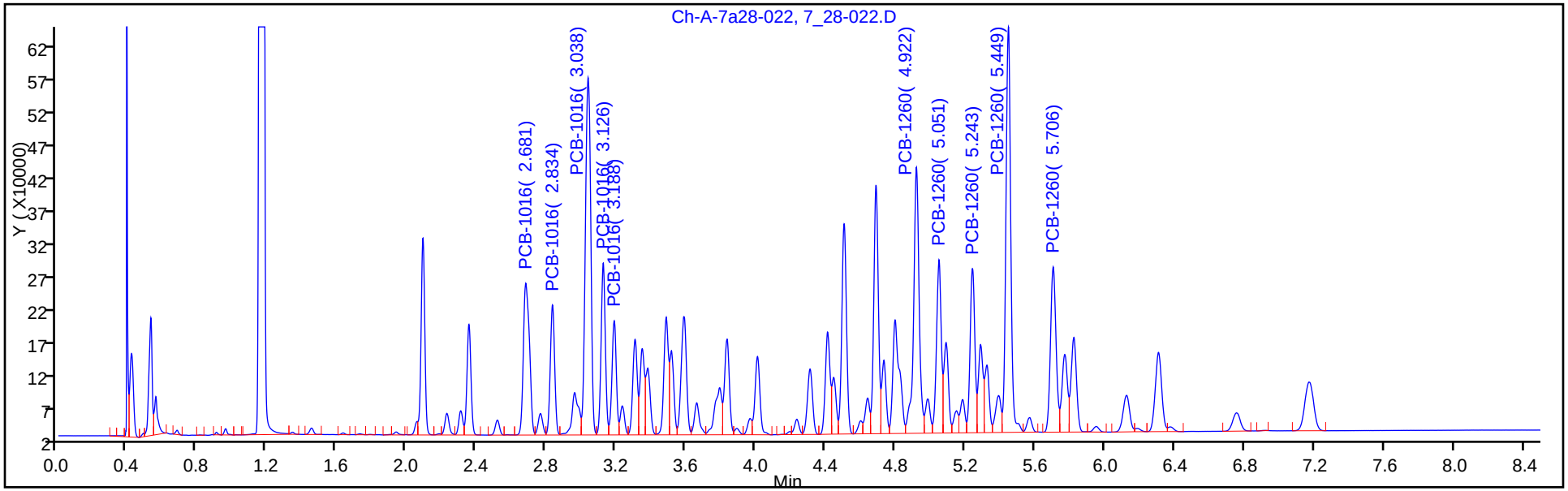
Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

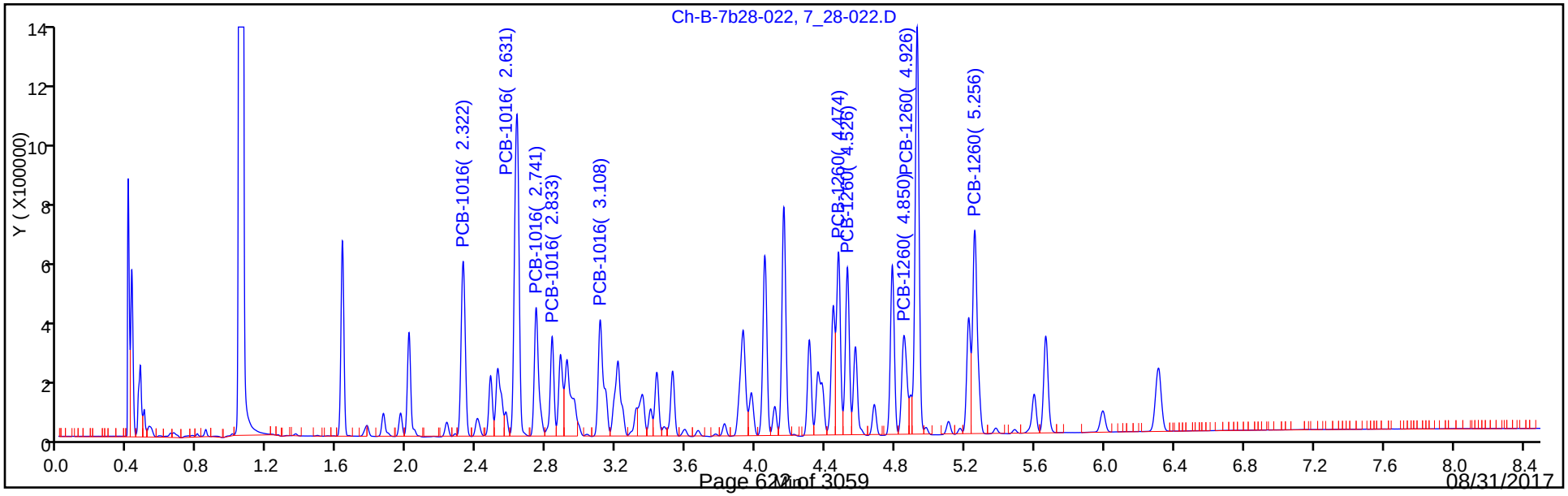
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date:	28-Mar-2017 13:16:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Mar-2017 13:32:29 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14162788	0.5000	0.5000	
2	1.050	1.050	0.000	25970868	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	190560	0.005000	0.005152	
2	1.629	1.629	0.000	314174	0.005000	0.005296	
						RPD = 2.77	
9 PCB-1016							M
1	2.679	2.681	-0.002	240440	0.2000	0.2113	
1	2.833	2.834	-0.001	146148	0.2000	0.2034	
1	3.038	3.038	0.000	477683	0.2000	0.2038	
1	3.124	3.126	-0.002	183983	0.2000	0.2049	
1	3.187	3.188	-0.001	124672	0.2000	0.2042	
		Average of Peak Amounts =				0.2055	
2	2.322	2.322	0.000	407072	0.2000	0.2144	M
2	2.630	2.631	-0.001	801927	0.2000	0.2095	M
2	2.740	2.741	-0.001	312839	0.2000	0.2140	M
2	2.832	2.833	0.000	208461	0.2000	0.2145	M
2	3.107	3.108	-0.001	357784	0.2000	0.2152	M
		Average of Peak Amounts =				0.2135	
						RPD = 3.82	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.922	-0.001	366134	0.2000	0.1984	
1	5.050	5.051	-0.001	209980	0.2000	0.2029	
1	5.242	5.243	0.000	198801	0.2000	0.2032	
1	5.447	5.449	-0.002	484581	0.2000	0.1990	
1	5.704	5.706	-0.002	236680	0.2000	0.2027	
		Average of Peak Amounts =				0.2013	
2	4.473	4.474	-0.001	388118	0.2000	0.2015	M
2	4.525	4.526	-0.001	355175	0.2000	0.2037	M
2	4.851	4.850	0.001	278936	0.2000	0.2064	M
2	4.925	4.926	-0.001	839381	0.2000	0.1962	M
2	5.255	5.256	-0.001	513815	0.2000	0.1978	M
		Average of Peak Amounts =				0.2011	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.001	114381	0.005000	0.005241	
2	6.309	6.310	-0.001	197094	0.005000	0.004970	
						RPD = 5.30	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00005 Amount Added: 1.00 Units: mL

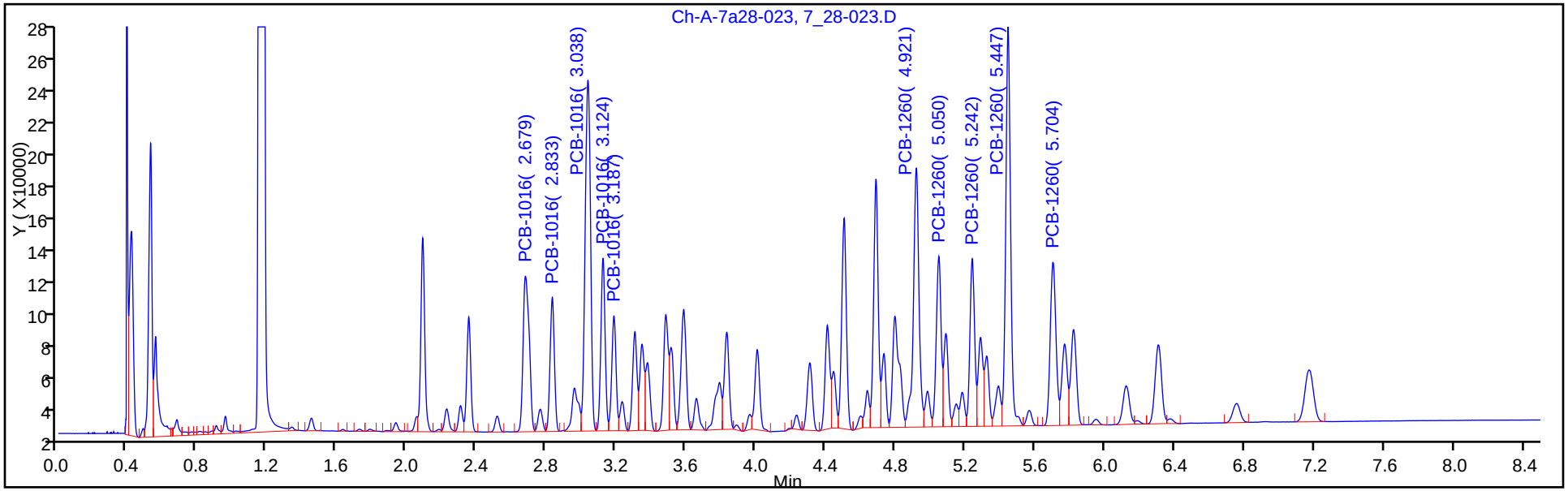
Report Date: 29-Mar-2017 10:53:48 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

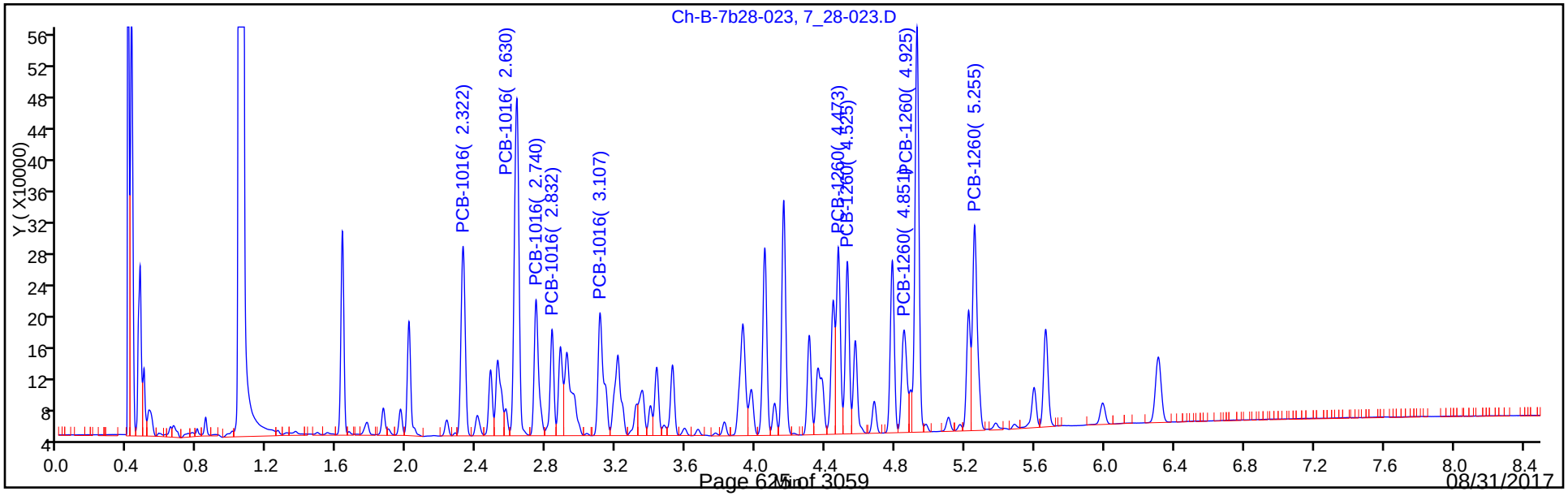
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date:	28-Mar-2017 13:32:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 13:48:24 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:51 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:15

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14095092	0.5000	0.5000	
2	1.051	1.050	0.001	25666794	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	103225	0.002500	0.002588	
2	1.629	1.629	0.000	165536	0.002500	0.002747	
						RPD = 5.96	
9 PCB-1016							
1	2.680	2.681	-0.001	131166	0.1000	0.1062	
1	2.833	2.834	-0.002	79759	0.1000	0.0986	
1	3.038	3.038	0.000	252373	0.1000	0.1042	
1	3.123	3.126	-0.003	101002	0.1000	0.1056	
1	3.187	3.188	-0.001	68213	0.1000	0.1074	
		Average of Peak Amounts =				0.1044	
2	2.322	2.322	0.000	221184	0.1000	0.1056	
2	2.629	2.631	-0.002	427950	0.1000	0.1075	
2	2.740	2.741	-0.001	168178	0.1000	0.1092	
2	2.832	2.833	0.000	111933	0.1000	0.1110	
2	3.108	3.108	0.000	191892	0.1000	0.1117	
		Average of Peak Amounts =				0.1090	
						RPD = 4.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.922	-0.002	195331	0.1000	0.1015	
1	5.048	5.051	-0.003	113127	0.1000	0.1051	
1	5.242	5.243	0.000	106177	0.1000	0.1041	
1	5.447	5.449	-0.002	248968	0.1000	0.0992	
1	5.705	5.706	-0.001	125509	0.1000	0.1027	
		Average of Peak Amounts =				0.1025	
2	4.474	4.474	0.000	203046	0.1000	0.1018	M
2	4.525	4.526	-0.001	186861	0.1000	0.1048	M
2	4.850	4.850	0.000	145043	0.1000	0.1059	M
2	4.924	4.926	-0.002	425544	0.1000	0.1003	M
2	5.255	5.256	-0.001	256997	0.1000	0.0992	M
		Average of Peak Amounts =				0.1024	
						RPD = 0.11	
$ 15 DCB Decachlorobiphenyl							
1	7.175	7.173	0.003	61259	0.002500	0.002505	
2	6.309	6.310	-0.001	105526	0.002500	0.002523	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00006 Amount Added: 1.00 Units: mL

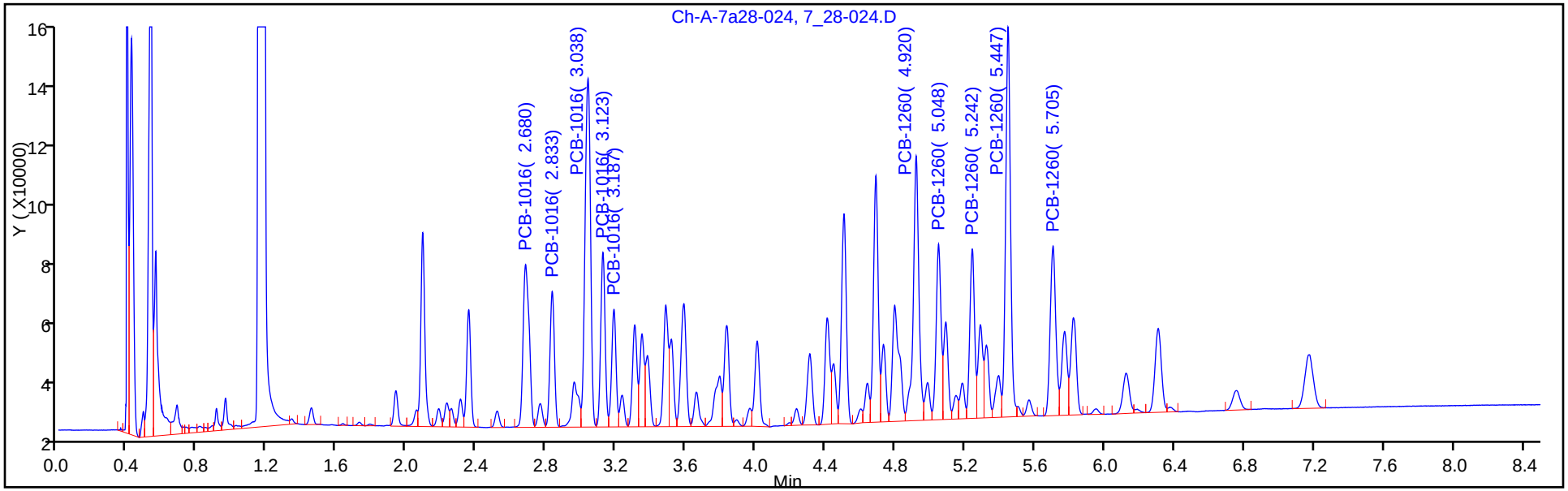
Report Date: 29-Mar-2017 10:53:52 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

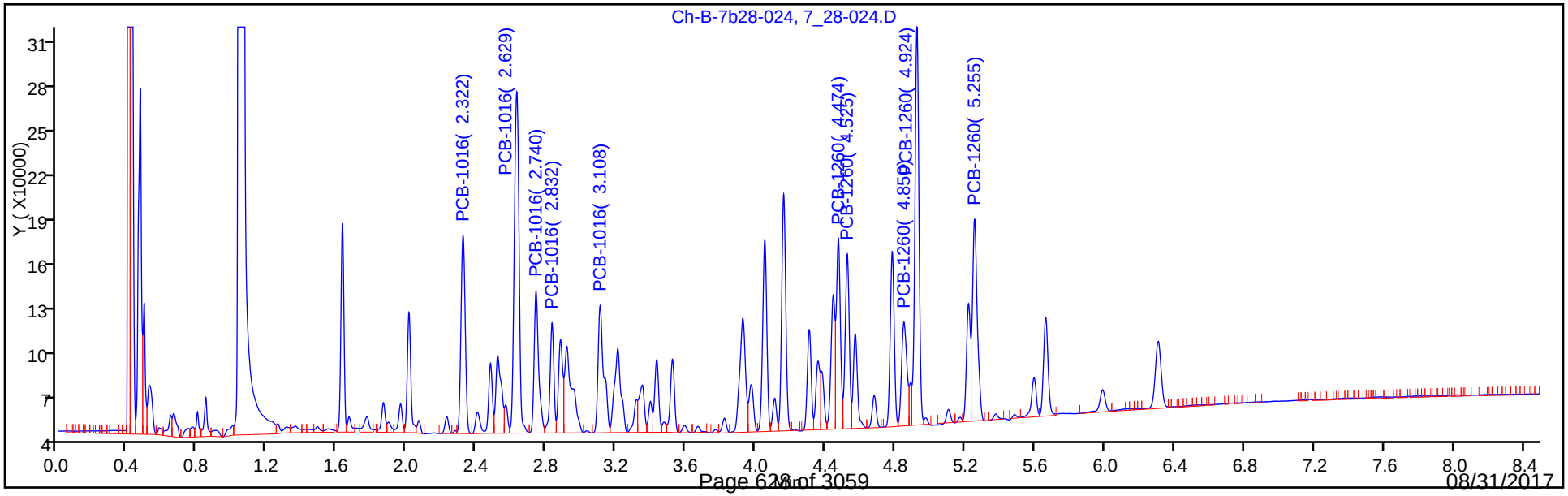
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D

Injection Date:	28-Mar-2017 13:48:24	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 14:04:23 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:55 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 14:59:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14205944	0.5000	0.5000	
2	1.051	1.050	0.001	25850188	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.092	-0.001	54964	0.001250	0.001144	M
2	1.630	1.629	0.001	88309	0.001250	0.001378	M
						RPD = 18.55	
9 PCB-1016							M
1	2.679	2.681	-0.002	70180	0.0500	0.0464	M
1	2.833	2.834	-0.001	42348	0.0500	0.0384	M
1	3.039	3.038	0.001	131470	0.0500	0.0497	M
1	3.123	3.126	-0.003	54848	0.0500	0.0493	M
1	3.188	3.188	0.000	35957	0.0500	0.0510	M
		Average of Peak Amounts =				0.0470	
2	2.322	2.322	0.000	119218	0.0500	0.0438	M
2	2.630	2.631	-0.001	231069	0.0500	0.0519	M
2	2.741	2.741	0.000	89547	0.0500	0.0503	M
2	2.833	2.833	0.000	58550	0.0500	0.0519	M
2	3.108	3.108	0.000	99815	0.0500	0.0523	M
		Average of Peak Amounts =				0.0500	
						RPD = 6.32	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	103183	0.0500	0.0482	
1	5.049	5.051	-0.002	59743	0.0500	0.0501	
1	5.243	5.243	0.000	56806	0.0500	0.0503	
1	5.448	5.449	-0.001	133445	0.0500	0.0493	
1	5.706	5.706	0.000	67285	0.0500	0.0492	
		Average of Peak Amounts =				0.0494	
2	4.474	4.474	0.000	107037	0.0500	0.0484	M
2	4.526	4.526	0.000	97606	0.0500	0.0506	M
2	4.850	4.850	0.000	75849	0.0500	0.0523	M
2	4.926	4.926	0.000	218116	0.0500	0.0507	M
2	5.255	5.256	-0.001	134029	0.0500	0.0505	M
		Average of Peak Amounts =				0.0505	
						RPD = 2.12	
$ 15 DCB Decachlorobiphenyl							
1	7.174	7.173	0.002	32445	0.001250	0.000992	
2	6.310	6.310	0.000	57089	0.001250	0.001184	
						RPD = 17.63	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00005 Amount Added: 1.00 Units: mL

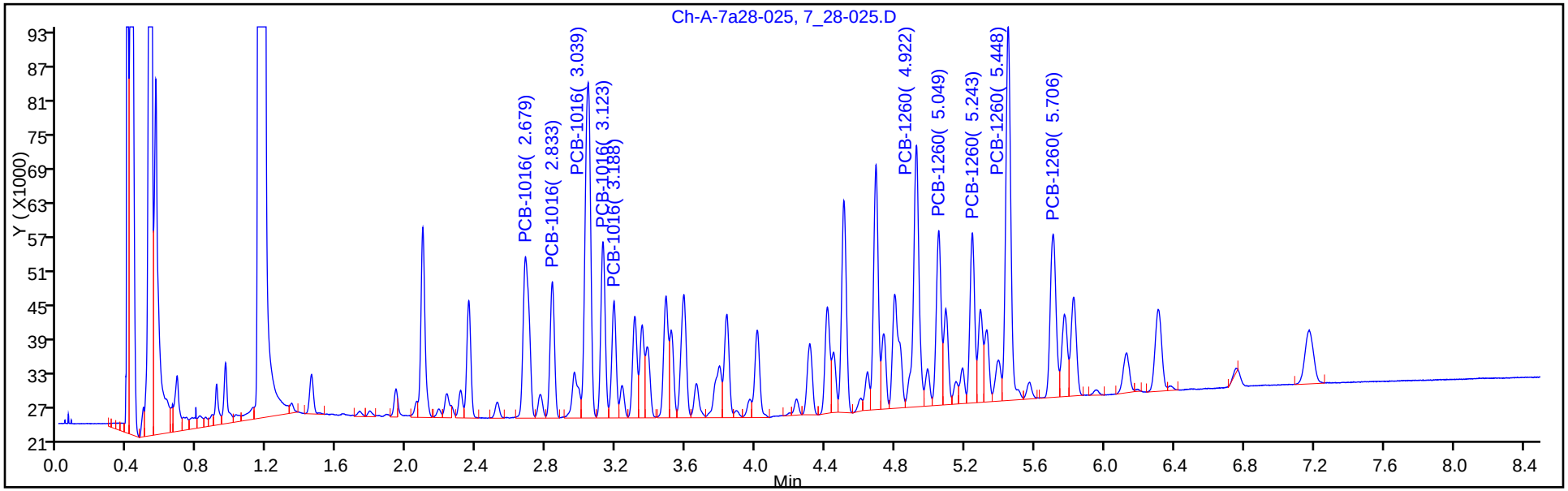
Report Date: 29-Mar-2017 10:53:55 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

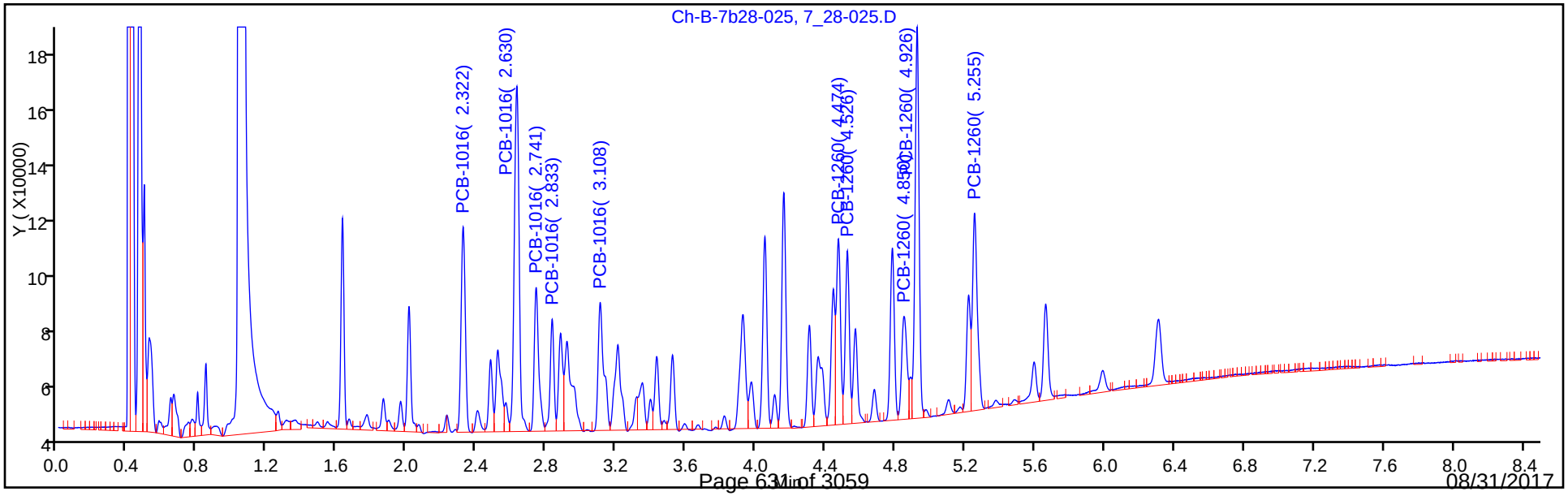
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date:	28-Mar-2017 14:04:23	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

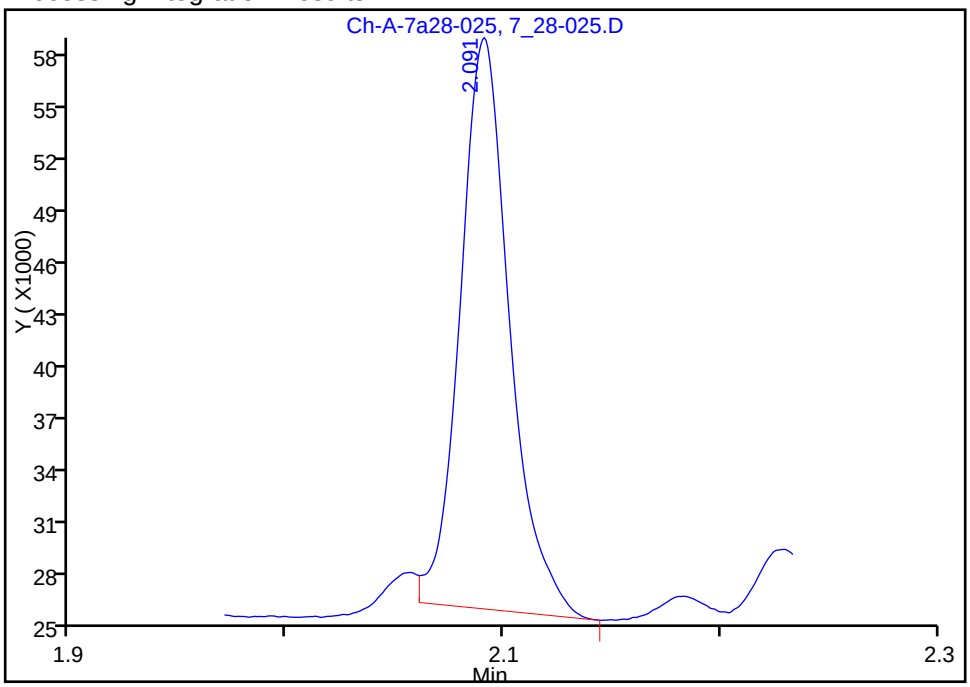
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

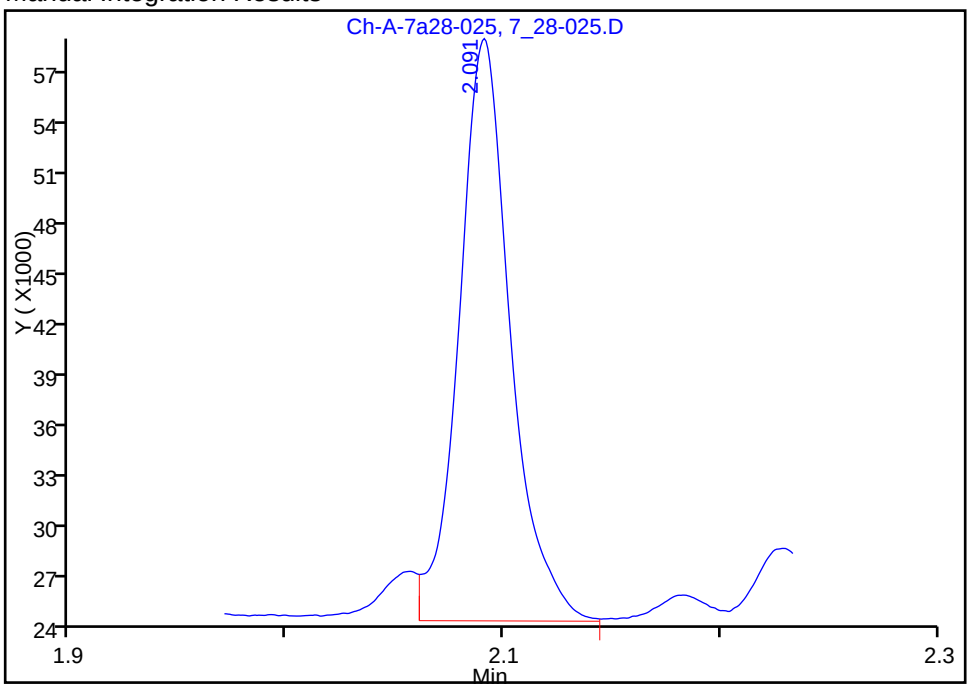
Processing Integration Results

RT: 2.09
Area: 51887
Amount: 0.001075
Amount Units: ng/uL



Manual Integration Results

RT: 2.09
Area: 54964
Amount: 0.001144
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:39:46
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:55 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

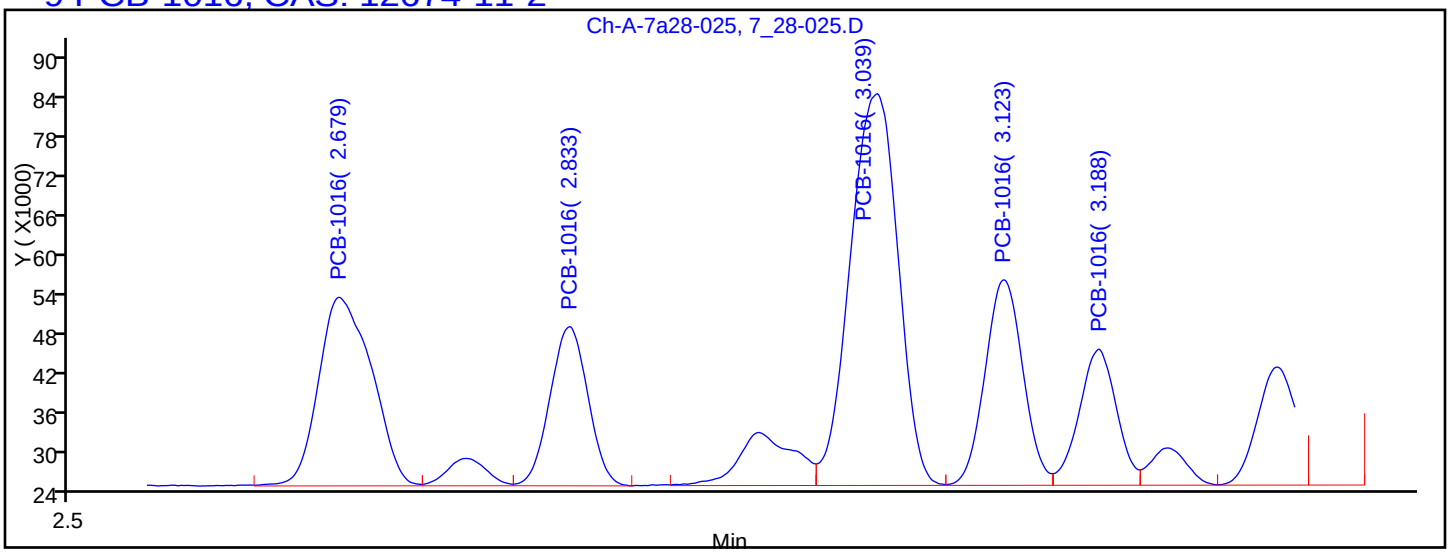
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

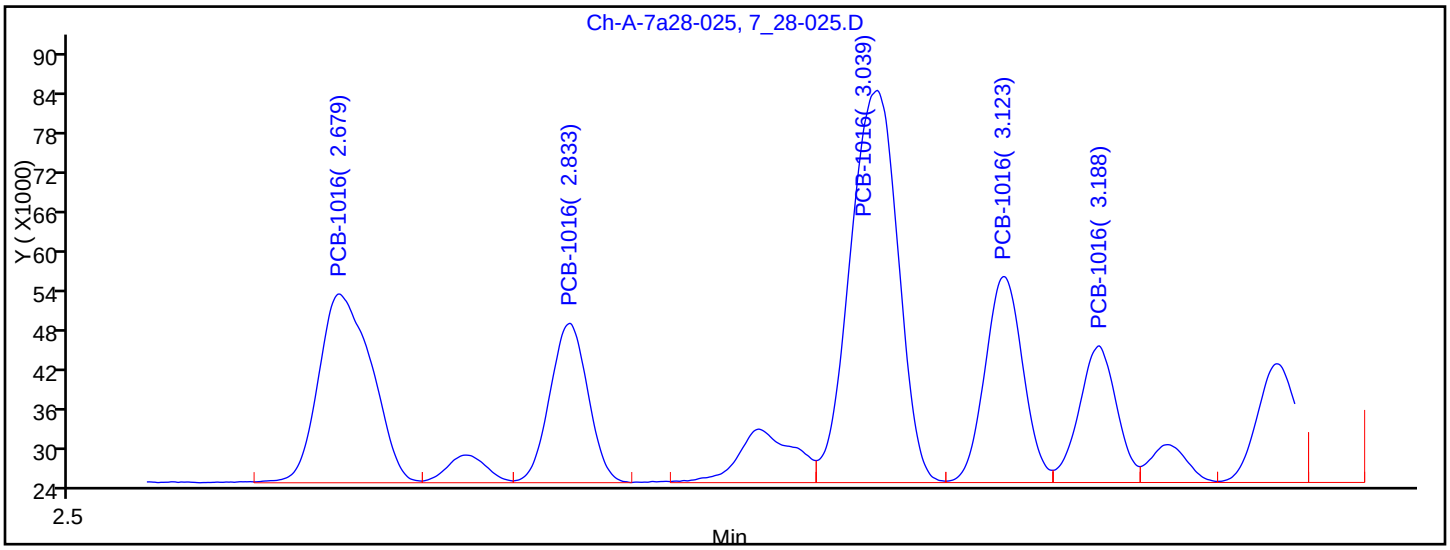
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.679	Response = 69947
2.833	Response = 42180
3.039	Response = 131067
3.123	Response = 54474
3.188	Response = 35626



Manual Integration Results

2.679	Response = 70180	M
2.833	Response = 42348	M
3.039	Response = 131470	M
3.123	Response = 54848	M
3.188	Response = 35957	M

Reviewer: owenj, 28-Mar-2017 15:39:45

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 14:20:25 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:06:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.166	0.000	13792920	0.5000	0.5000	
2	1.049	1.049	0.000	24913854	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.092	2.092	0.000	32243	0.000500	0.000504	
2	1.628	1.628	0.000	29453	0.000500	0.000370	M
						RPD = 30.68	
9 PCB-1016							M
1	2.678	2.678	0.000	40090	0.0200	0.0185	M
1	2.833	2.833	0.000	32281	0.0200	0.0240	M
1	3.038	3.038	0.000	59419	0.0200	0.0186	M
1	3.124	3.124	0.000	28193	0.0200	0.0184	M
1	3.187	3.187	0.000	16055	0.0200	0.0176	M
		Average of Peak Amounts =				0.0194	
2	2.320	2.320	0.000	75232	0.0200	0.0192	M
2	2.629	2.629	0.000	100551	0.0200	0.0166	M
2	2.741	2.741	0.000	42091	0.0200	0.0164	M
2	2.832	2.832	0.000	24350	0.0200	0.0155	M
2	3.108	3.108	0.000	39819	0.0200	0.0151	M
		Average of Peak Amounts =				0.0166	
						RPD = 15.66	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.920	0.000	53350	0.0200	0.0208	M
1	5.050	5.050	0.000	28146	0.0200	0.0190	M
1	5.243	5.243	0.000	26897	0.0200	0.0191	M
1	5.448	5.448	0.000	64230	0.0200	0.0207	M
1	5.705	5.705	0.000	33766	0.0200	0.0199	M
		Average of Peak Amounts =				0.0199	
2	4.460	4.460	0.000	53484	0.0200	0.0201	M
2	4.525	4.525	0.000	42671	0.0200	0.0186	M
2	4.850	4.850	0.000	29246	0.0200	0.0176	M
2	4.925	4.925	0.000	87081	0.0200	0.0206	M
2	5.256	5.256	0.000	55612	0.0200	0.0207	M
		Average of Peak Amounts =				0.0195	
						RPD = 1.86	
$ 15 DCB Decachlorobiphenyl							M
1	7.180	7.180	0.000	23559	0.000500	0.000570	M
2	6.309	6.309	0.000	31563	0.000500	0.000522	M
						RPD = 8.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00005 Amount Added: 1.00 Units: mL

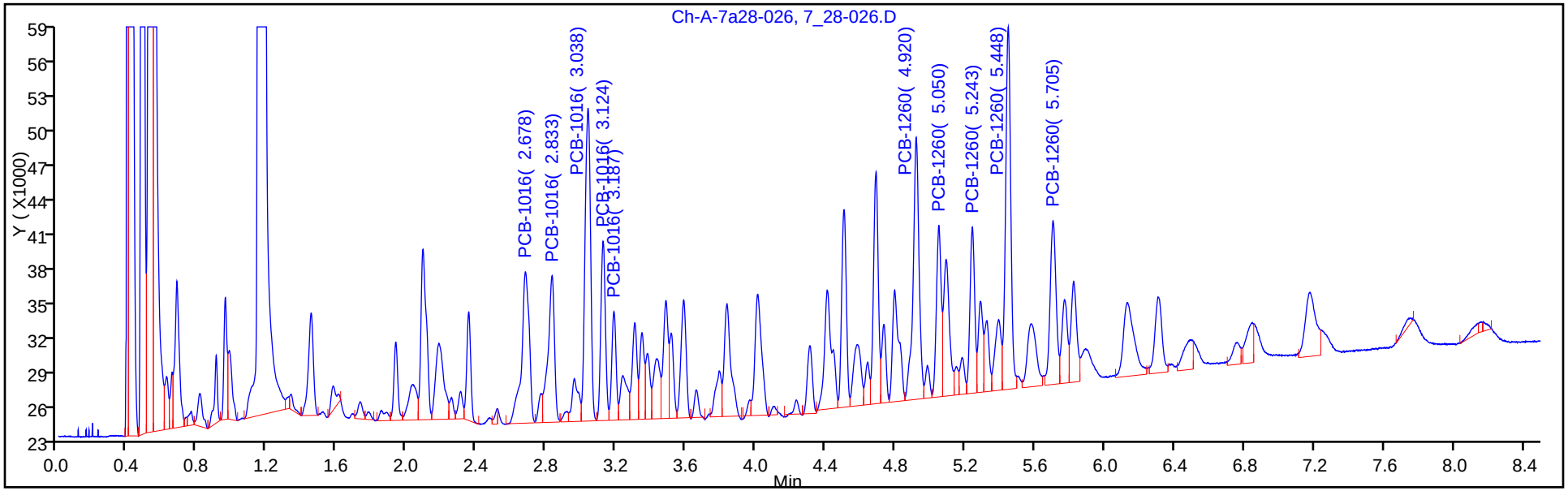
Report Date: 29-Mar-2017 10:53:59 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

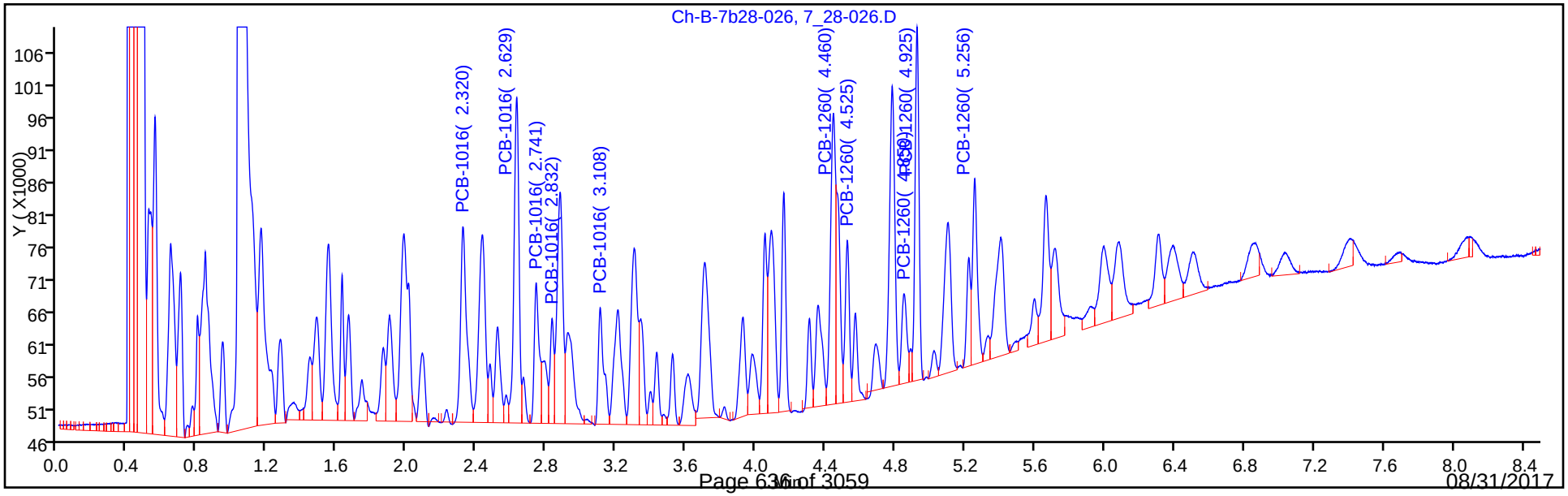
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date:	28-Mar-2017 14:20:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

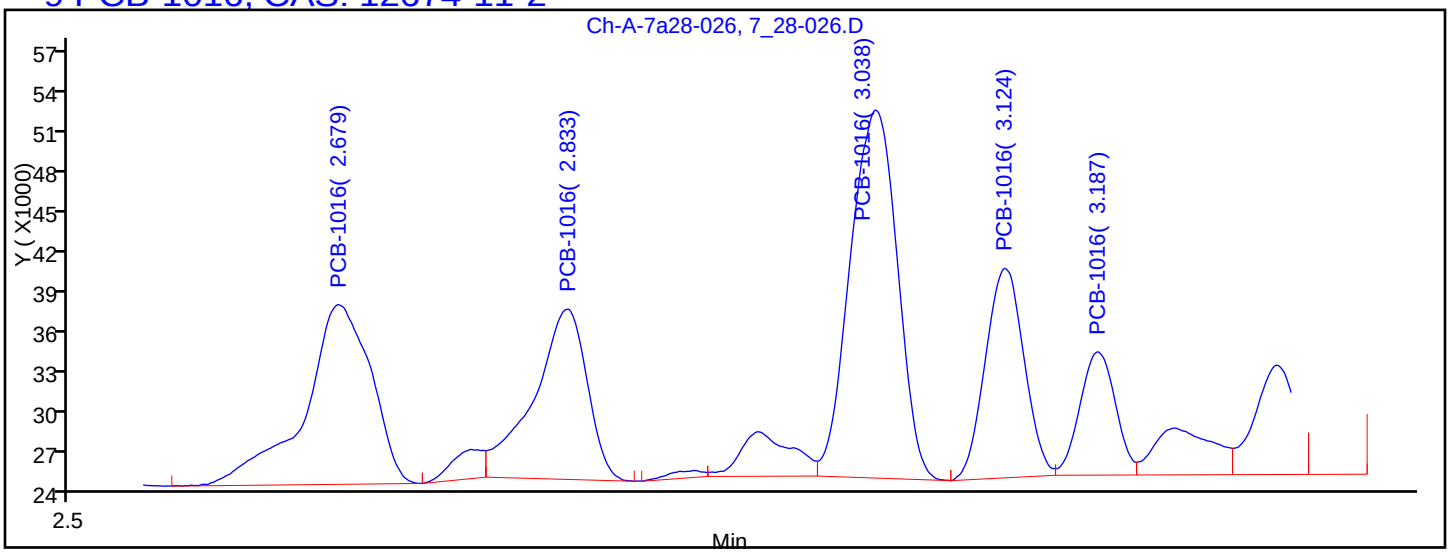
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

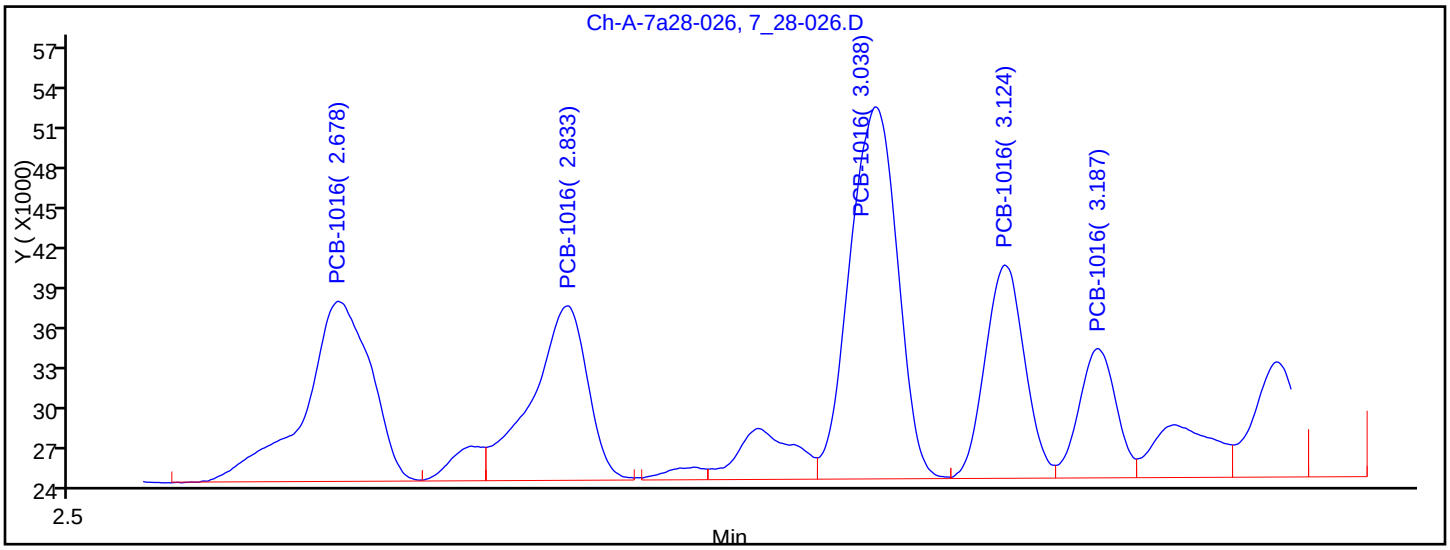
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.679	Response = 40025
2.833	Response = 30389
3.038	Response = 57961
3.124	Response = 27095
3.187	Response = 14643



Manual Integration Results

2.678	Response = 40090	M
2.833	Response = 32281	M
3.038	Response = 59419	M
3.124	Response = 28193	M
3.187	Response = 16055	M

Reviewer: owenj, 28-Mar-2017 15:41:06

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

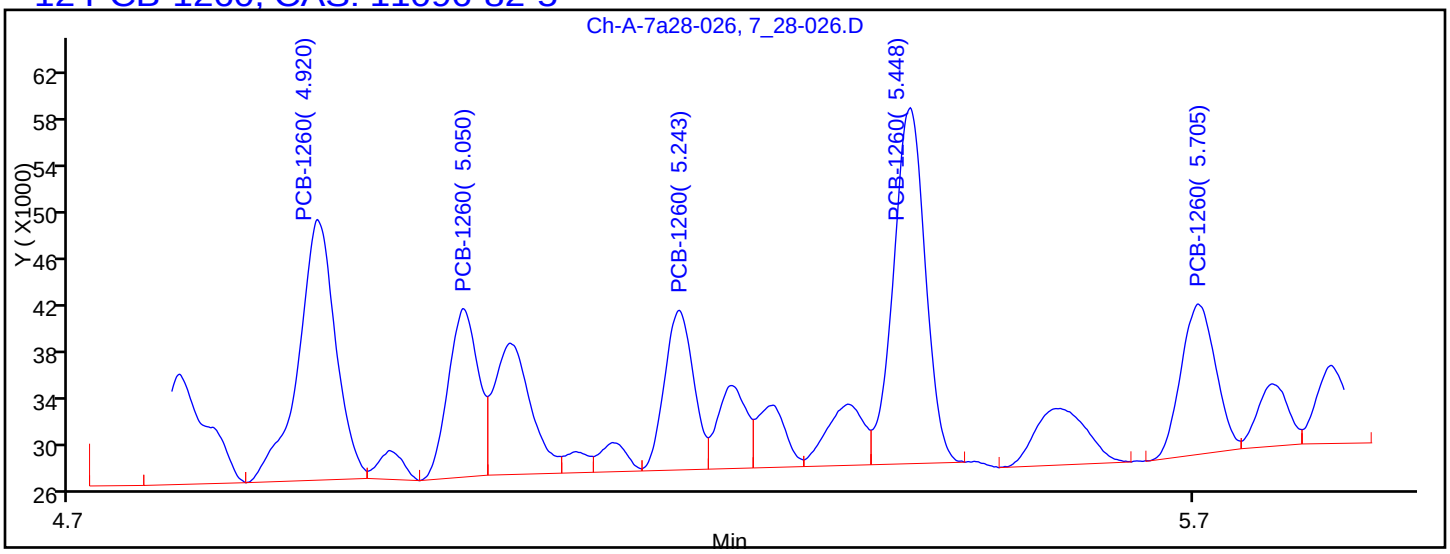
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

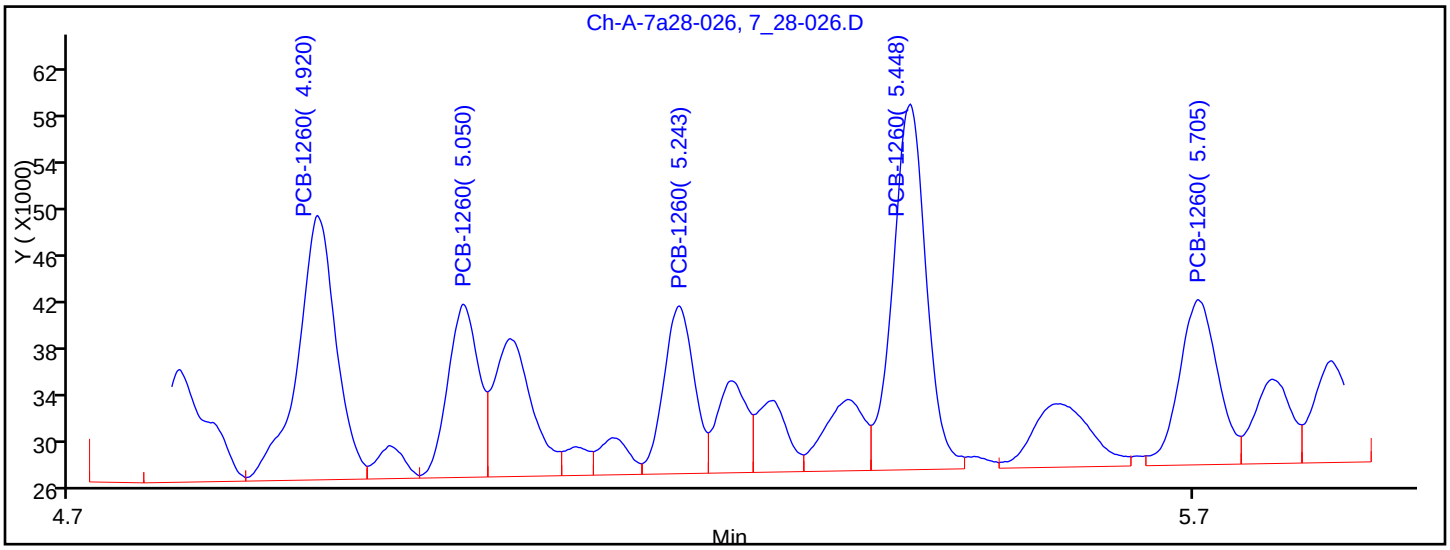
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.920	Response = 50860
5.050	Response = 26706
5.243	Response = 24295
5.448	Response = 59545
5.705	Response = 27397



Manual Integration Results

4.920	Response = 53350	M
5.050	Response = 28146	M
5.243	Response = 26897	M
5.448	Response = 64230	M
5.705	Response = 33766	M

Reviewer: owenj, 28-Mar-2017 15:41:03

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

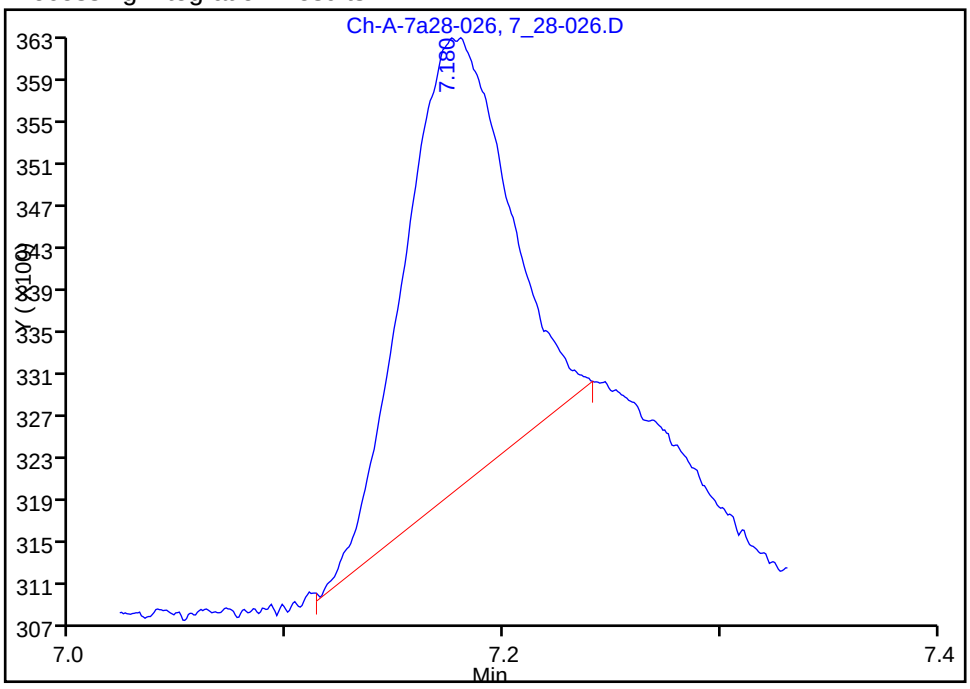
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

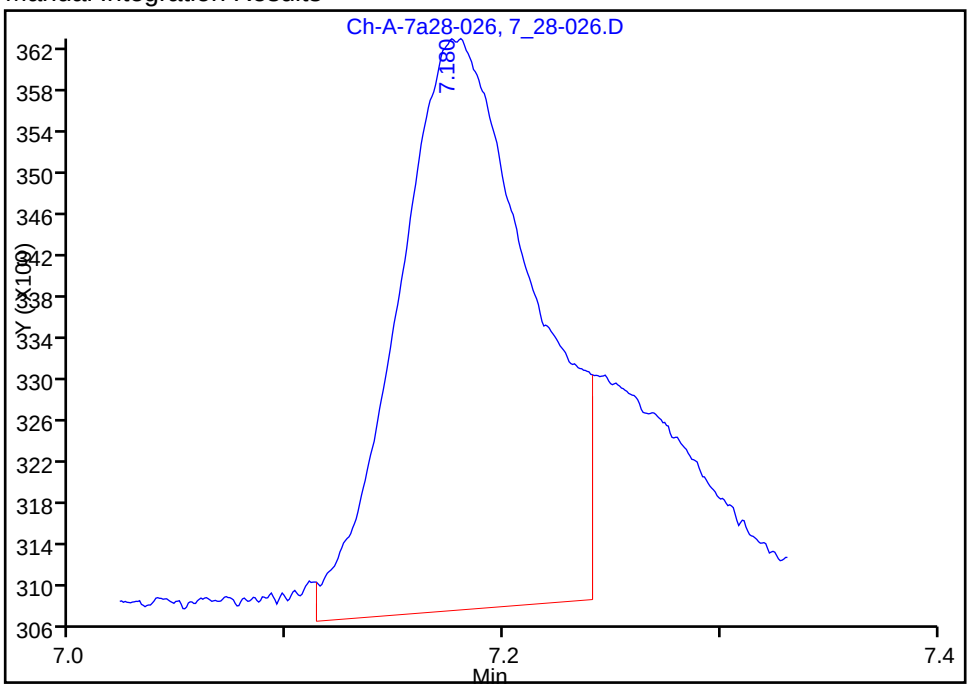
Processing Integration Results

RT: 7.18
Area: 14218
Amount: 0.000382
Amount Units: ng/uL



Manual Integration Results

RT: 7.18
Area: 23559
Amount: 0.000570
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:41:03
Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30037

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0755 0.0338	0.0461 0.0320	0.0431	0.0392	0.0357	Lin1	0.0009	0.0324							0.9990		0.9900
PCB-1016 Peak 2	0.1009 0.0705	0.0894 0.0691	0.0834	0.0772	0.0727	Lin1	0.0009	0.0696							0.9990		0.9900
PCB-1016 Peak 3	0.0422 0.0267	0.0346 0.0259	0.0328	0.0301	0.0277	Lin1	0.0004	0.0262							0.9990		0.9900
PCB-1016 Peak 4	0.0244 0.0180	0.0226 0.0175	0.0218	0.0201	0.0185	Lin1	0.0002	0.0177							0.9990		0.9900
PCB-1016 Peak 5	0.0400 0.0307	0.0386 0.0301	0.0374	0.0344	0.0318	Lin1	0.0003	0.0304							0.9990		0.9900
PCB-1260 Peak 1	0.0537 0.0354	0.0414 0.0355	0.0396	0.0374	0.0362	Lin1	0.0004	0.0353							1.0000		0.9900
PCB-1260 Peak 2	0.0428 0.0325	0.0378 0.0324	0.0364	0.0342	0.0326	Lin1	0.0003	0.0323							1.0000		0.9900
PCB-1260 Peak 3	0.0293 0.0254	0.0293 0.0254	0.0283	0.0269	0.0253	Lin1	0.0001	0.0253							1.0000		0.9900
PCB-1260 Peak 4	0.0874 0.0812	0.0844 0.0832	0.0829	0.0808	0.0799	Lin1	0.0001	0.0820							1.0000		0.9900
PCB-1260 Peak 5	0.0558 0.0489	0.0518 0.0503	0.0501	0.0495	0.0486	Lin1	0.0001	0.0495							1.0000		0.9900
Tetrachloro-m-xylene	1.1822 1.1160	1.3665 1.0954	1.2899	1.2097	1.1364	Lin1	0.0002	1.1078							0.9990		0.9900
DCB Decachlorobiphenyl	1.2669 0.7210	0.8834 0.7155	0.8223	0.7589	0.7359	Lin1	0.0003	0.7106							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 12:44 Calibration End Date: 03/28/2017 14:20 Calibration ID: 30037

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/13	7_28-026.D
Level 2	IC 480-349118/12	7_28-025.D
Level 3	IC 480-349118/11	7_28-024.D
Level 4	IC 480-349118/10	7_28-023.D
Level 5	ICIS 480-349118/9	7_28-022.D
Level 6	IC 480-349118/8	7_28-021.D
Level 7	IC 480-349118/7	7_28-020.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Lin1	75232 1750650	119218 3225340	221184	407072	924630	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	BNB	Lin1	100551 3648843	231069 6960596	427950	801927	1883383	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	BNB	Lin1	42091 1382864	89547 2614031	168178	312839	717244	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	BNB	Lin1	24350 930174	58550 1765496	111933	208461	478556	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	BNB	Lin1	39819 1590176	99815 3029614	191892	357784	824152	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	BNB	Lin1	53484 1832024	107037 3578378	203046	388118	937560	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	BNB	Lin1	42671 1681113	97606 3267180	186861	355175	846078	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	BNB	Lin1	29246 1316272	75849 2555055	145043	278936	654832	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	BNB	Lin1	87081 4197806	218116 8387014	425544	839381	2070270	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	BNB	Lin1	55612 2530850	134029 5066416	256997	513815	1260909	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	BNB	Lin1	29453 1443081	88309 2759910	165536	314174	736370	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	BNB	Lin1	31563 932252	57089 1802857	105526	197094	476855	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Mar-2017 12:44:29 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:37 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 13:28:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13783622	0.5000	0.5000	
2	1.050	1.049	0.001	25196320	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.091	0.000	1643301	0.0500	0.0494	M
2	1.630	1.630	0.000	2759910	0.0500	0.0493	
						RPD = 0.19	
9 PCB-1016							M
1	2.680	2.680	0.000	1990674	2.00	1.96	
1	2.833	2.833	0.000	1229448	2.00	1.98	
1	3.038	3.038	0.000	4351045	2.00	1.98	
1	3.124	3.124	0.000	1614519	2.00	1.98	
1	3.188	3.188	0.000	1125851	2.00	1.98	
		Average of Peak Amounts =				1.98	
2	2.323	2.322	0.000	3225340	2.00	1.95	M
2	2.630	2.629	0.001	6960596	2.00	1.97	M
2	2.741	2.740	0.001	2614031	2.00	1.96	M
2	2.833	2.832	0.000	1765496	2.00	1.97	M
2	3.108	3.108	0.000	3029614	2.00	1.96	M
		Average of Peak Amounts =				1.96	
						RPD = 0.65	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	3456088	2.00	2.02	
1	5.049	5.050	-0.001	1936068	2.00	2.01	
1	5.243	5.241	0.001	1828525	2.00	2.01	
1	5.448	5.448	0.000	4599282	2.00	2.01	
1	5.705	5.704	0.001	2179578	2.00	2.02	
		Average of Peak Amounts =				2.01	
2	4.474	4.473	0.001	3578378	2.00	2.00	M
2	4.526	4.525	0.001	3267180	2.00	2.00	M
2	4.852	4.850	0.002	2555055	2.00	2.00	M
2	4.926	4.925	0.001	8387014	2.00	2.03	M
2	5.256	5.256	0.000	5066416	2.00	2.03	M
		Average of Peak Amounts =				2.01	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							M
1	7.176	7.173	0.003	945567	0.0500	0.0496	
2	6.309	6.309	0.000	1802857	0.0500	0.0500	M
						RPD = 0.68	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is2.0_00005 Amount Added: 1.00 Units: mL

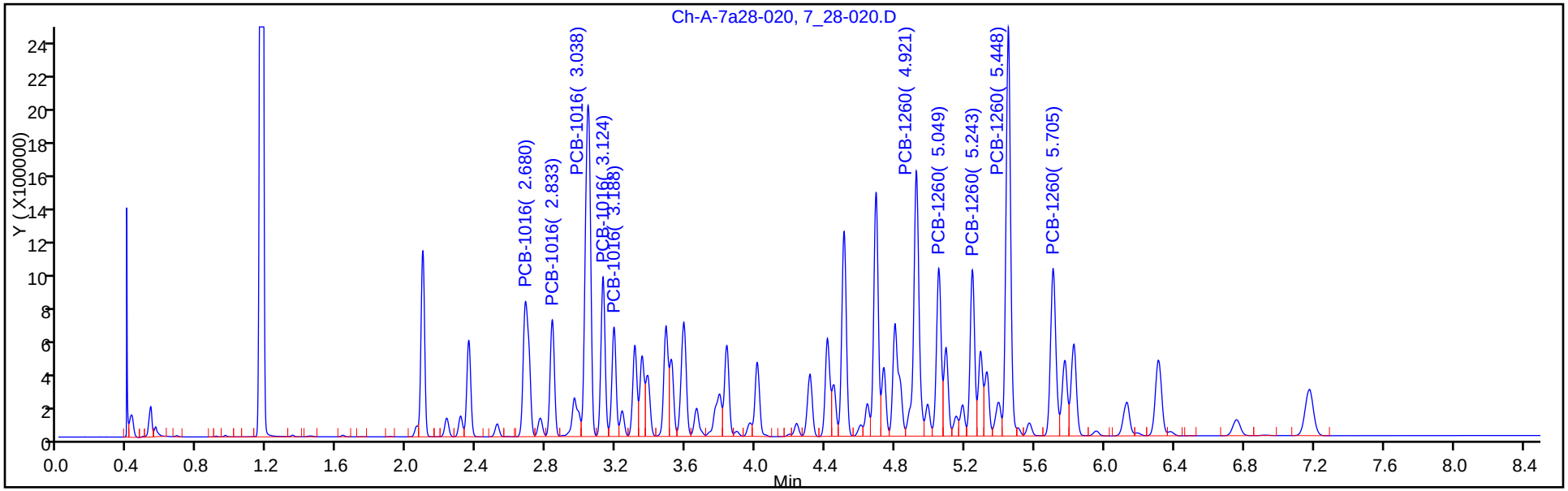
Report Date: 29-Mar-2017 10:53:38 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

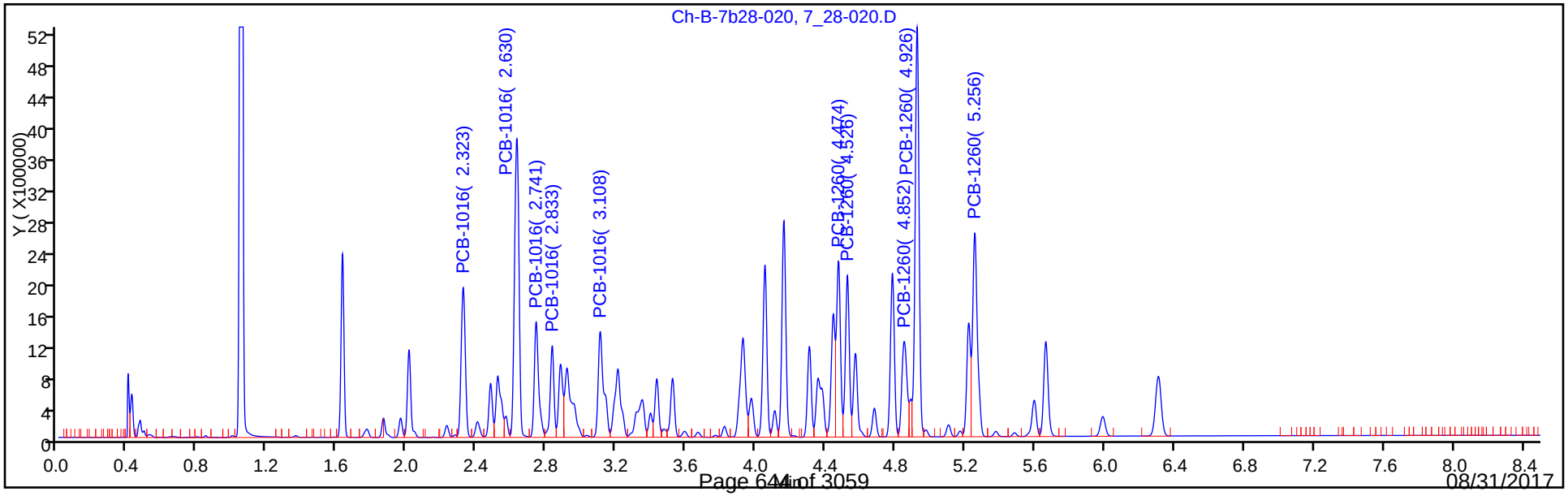
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date:	28-Mar-2017 12:44:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 7			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:39 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7

Lims ID: IC 7

Client ID:

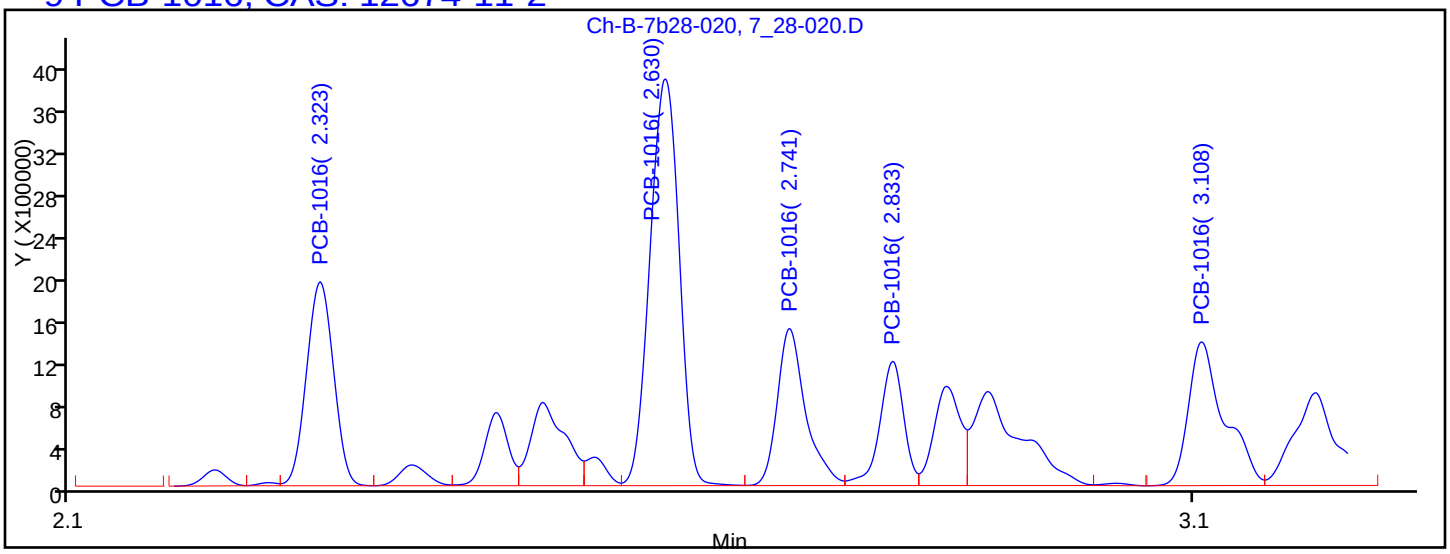
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

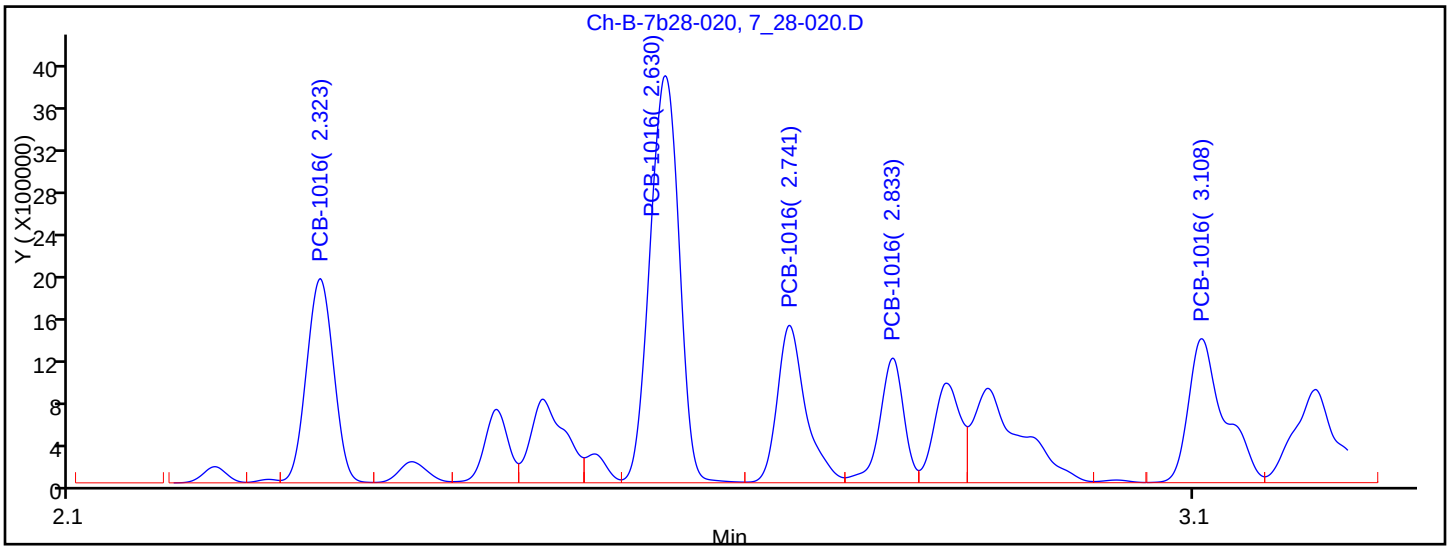
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.323	Response = 3208760
2.630	Response = 6935787
2.741	Response = 2593346
2.833	Response = 1749465
3.108	Response = 3009268



Manual Integration Results

2.323	Response = 3225340	M
2.630	Response = 6960596	M
2.741	Response = 2614031	M
2.833	Response = 1765496	M
3.108	Response = 3029614	M

Reviewer: owenj, 28-Mar-2017 15:09:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:39 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D

Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7

Lims ID: IC 7

Client ID:

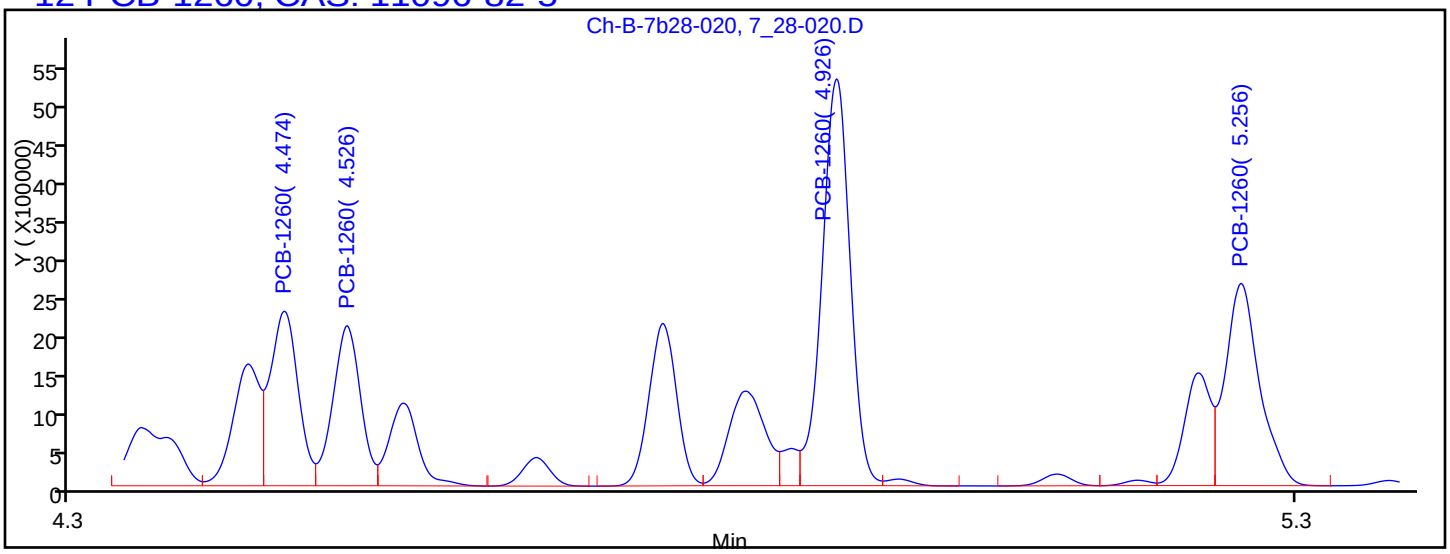
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

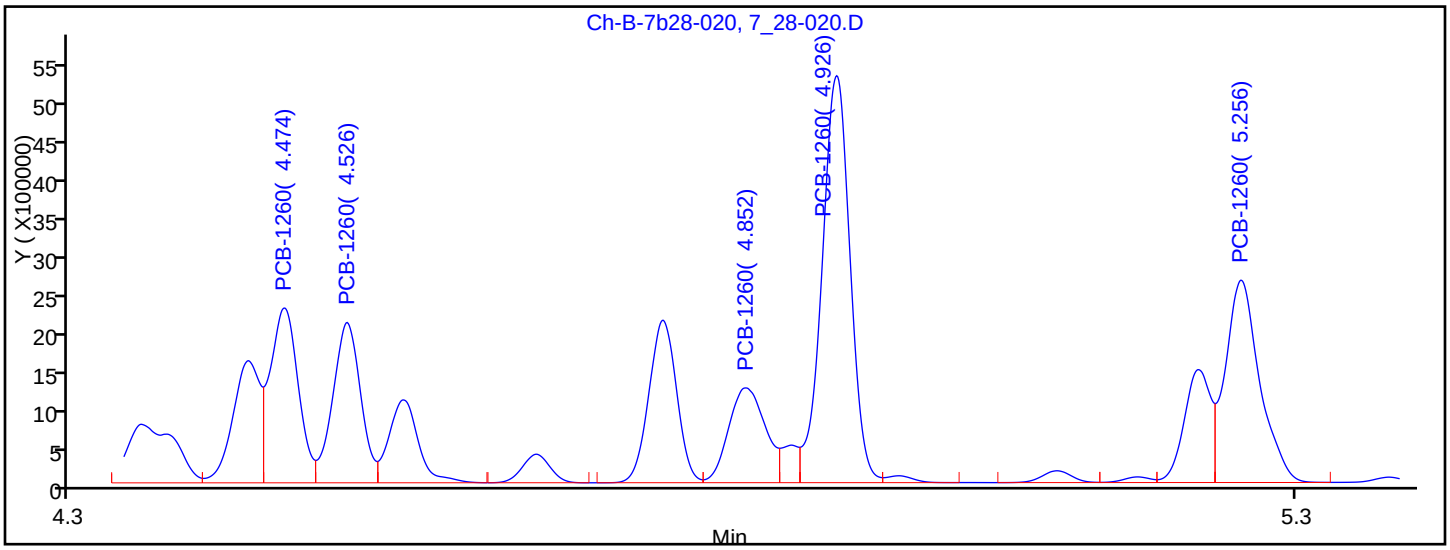
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 3565365
4.526	Response = 3251904
4.784	Response = 3298061
4.926	Response = 8369298
5.256	Response = 5052676



Manual Integration Results

4.474	Response = 3578378	M
4.526	Response = 3267180	M
4.852	Response = 2555055	M
4.926	Response = 8387014	M
5.256	Response = 5066416	M

Reviewer: owenj, 28-Mar-2017 15:47:57

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

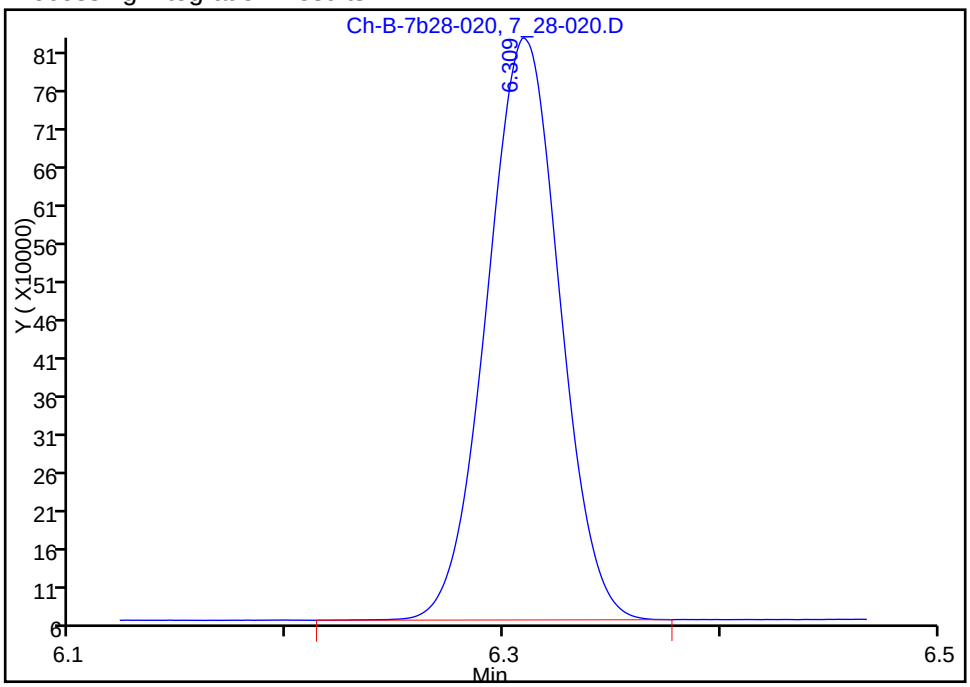
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-020.D
Injection Date: 28-Mar-2017 12:44:29 Instrument ID: HP6890-7
Lims ID: IC 7
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

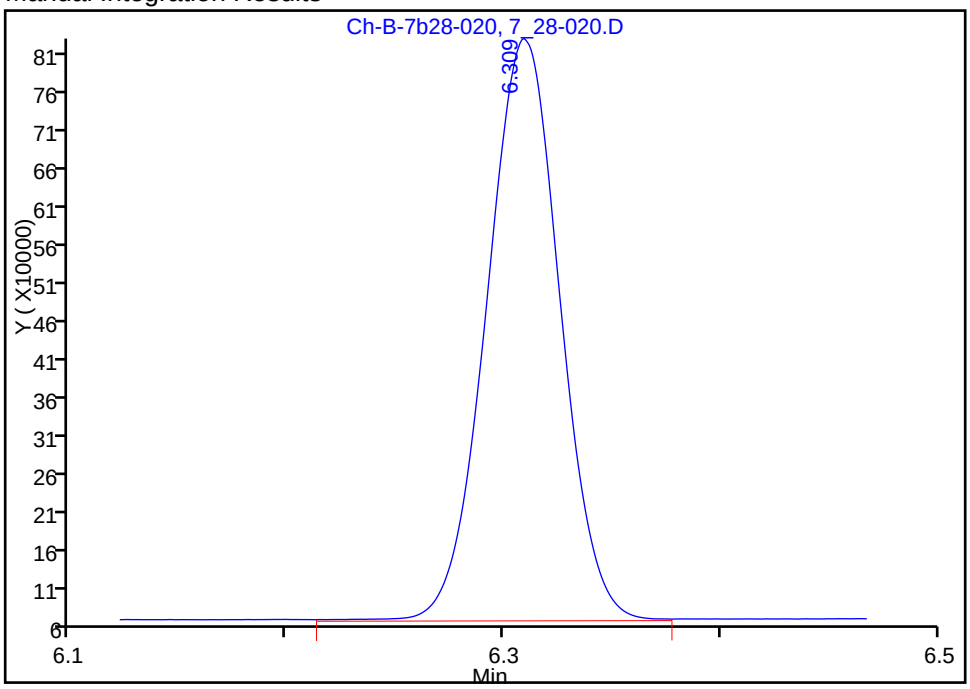
Processing Integration Results

RT: 6.31
Area: 1783192
Amount: 0.049410
Amount Units: ng/uL



Manual Integration Results

RT: 6.31
Area: 1802857
Amount: 0.049978
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:09:24
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 28-Mar-2017 13:00:25 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:41 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:59

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	14192996	0.5000	0.5000	
2	1.051	1.049	0.002	25860623	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.091	2.091	0.000	878514	0.0250	0.0254	
2	1.630	1.630	0.000	1443081	0.0250	0.0250	
						RPD = 1.51	
9 PCB-1016							M
1	2.680	2.680	0.000	1069406	1.00	1.01	
1	2.833	2.833	0.000	657284	1.00	1.01	
1	3.037	3.038	-0.001	2281855	1.00	1.00	
1	3.124	3.124	0.000	847778	1.00	1.00	
1	3.188	3.188	0.000	585173	1.00	1.00	
		Average of Peak Amounts =				1.01	
2	2.322	2.322	0.000	1750650	1.00	1.02	M
2	2.630	2.629	0.001	3648843	1.00	1.00	M
2	2.740	2.740	0.000	1382864	1.00	1.00	M
2	2.833	2.832	0.000	930174	1.00	1.00	M
2	3.108	3.108	0.000	1590176	1.00	1.00	M
		Average of Peak Amounts =				1.01	
						RPD = 0.01	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.921	0.000	1757860	1.00	0.99	
1	5.049	5.050	-0.001	985992	1.00	0.9889	
1	5.243	5.241	0.001	928651	1.00	0.9864	
1	5.448	5.448	0.000	2370953	1.00	1.00	
1	5.705	5.704	0.001	1105773	1.00	0.9872	
		Average of Peak Amounts =				0.99	
2	4.475	4.473	0.002	1832024	1.00	0.99	M
2	4.526	4.525	0.001	1681113	1.00	1.00	M
2	4.853	4.850	0.002	1316272	1.00	1.00	M
2	4.926	4.925	0.001	4197806	1.00	0.9885	M
2	5.256	5.256	0.000	2530850	1.00	0.9857	M
		Average of Peak Amounts =				0.99	
						RPD = 0.22	
$ 15 DCB Decachlorobiphenyl							
1	7.176	7.173	0.003	497557	0.0250	0.0250	
2	6.310	6.309	0.001	932252	0.0250	0.0250	
						RPD = 0.14	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is1.0_00006 Amount Added: 1.00 Units: mL

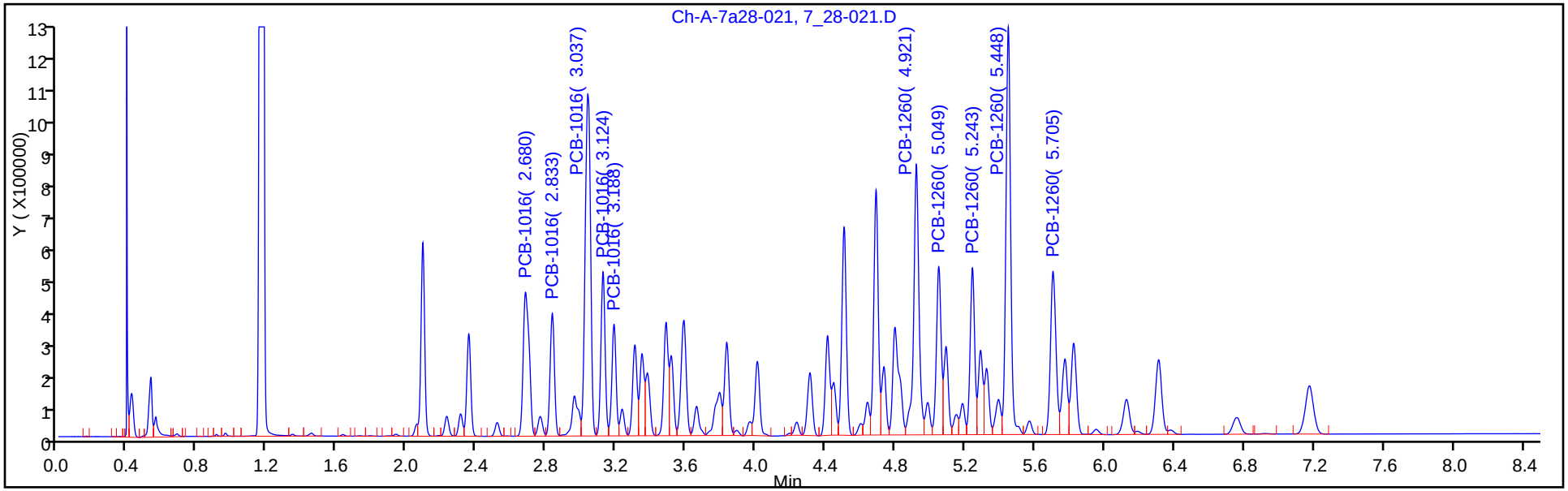
Report Date: 29-Mar-2017 10:53:42 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

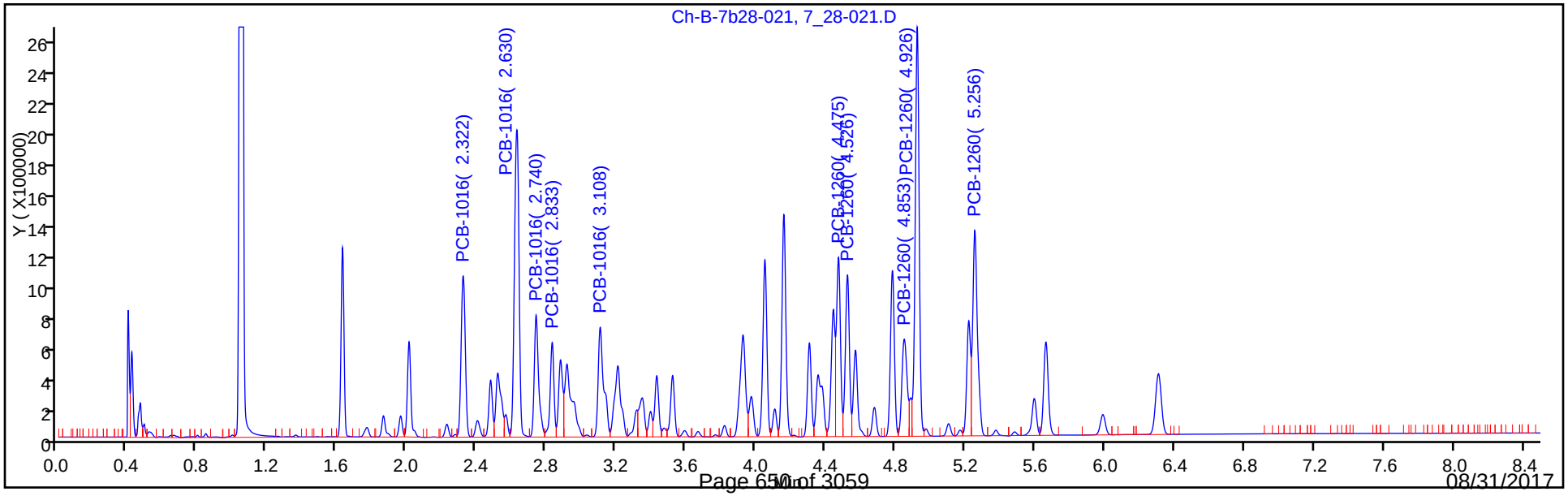
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date:	28-Mar-2017 13:00:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 6			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:42 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date: 28-Mar-2017 13:00:25 Instrument ID: HP6890-7

Lims ID: IC 6

Client ID:

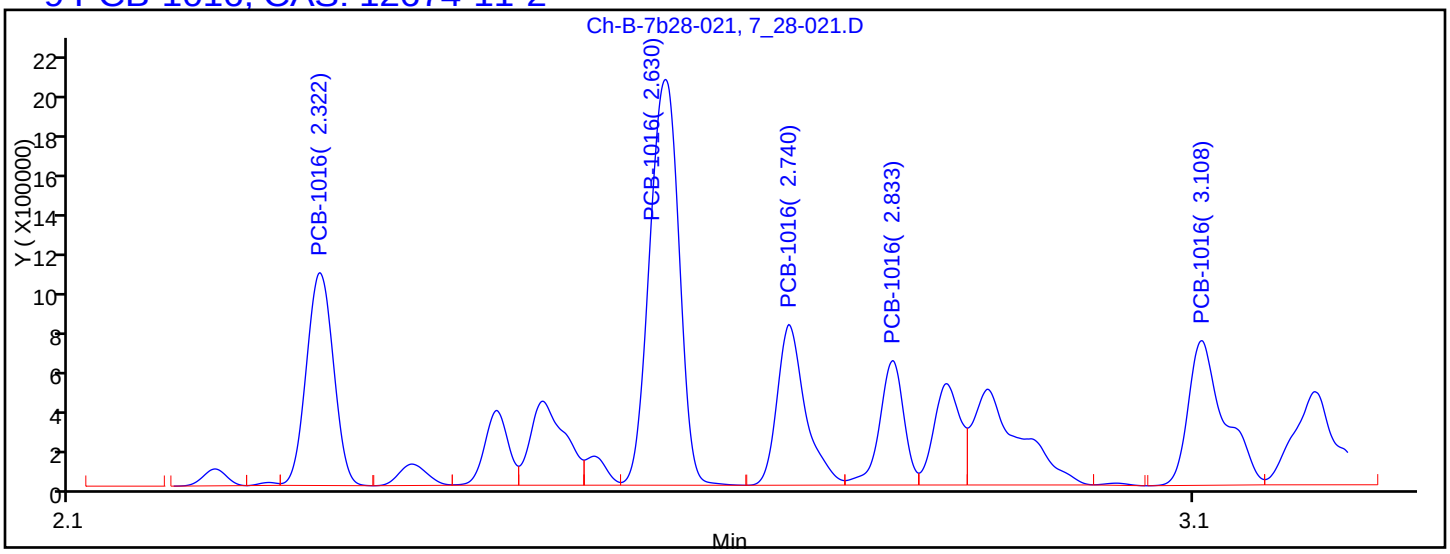
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

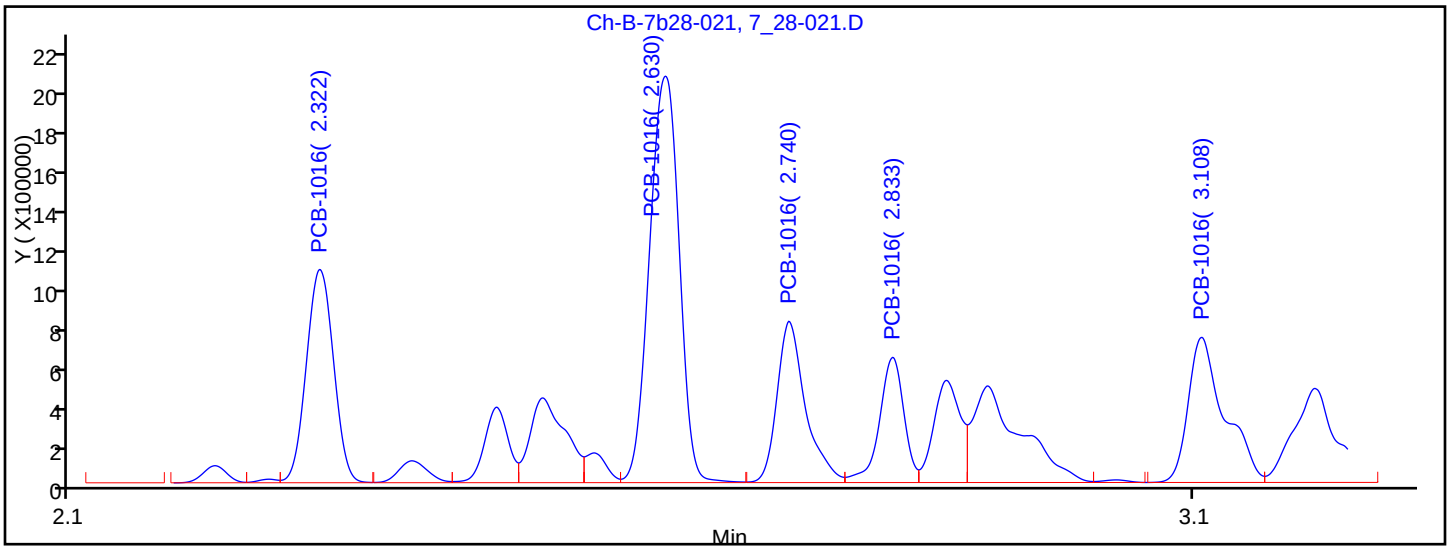
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 1739471
2.630	Response = 3627671
2.740	Response = 1365841
2.833	Response = 915091
3.108	Response = 1576973



Manual Integration Results

2.322	Response = 1750650	M
2.630	Response = 3648843	M
2.740	Response = 1382864	M
2.833	Response = 930174	M
3.108	Response = 1590176	M

Reviewer: owenj, 28-Mar-2017 15:37:47

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:42 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-021.D

Injection Date: 28-Mar-2017 13:00:25 Instrument ID: HP6890-7

Lims ID: IC 6

Client ID:

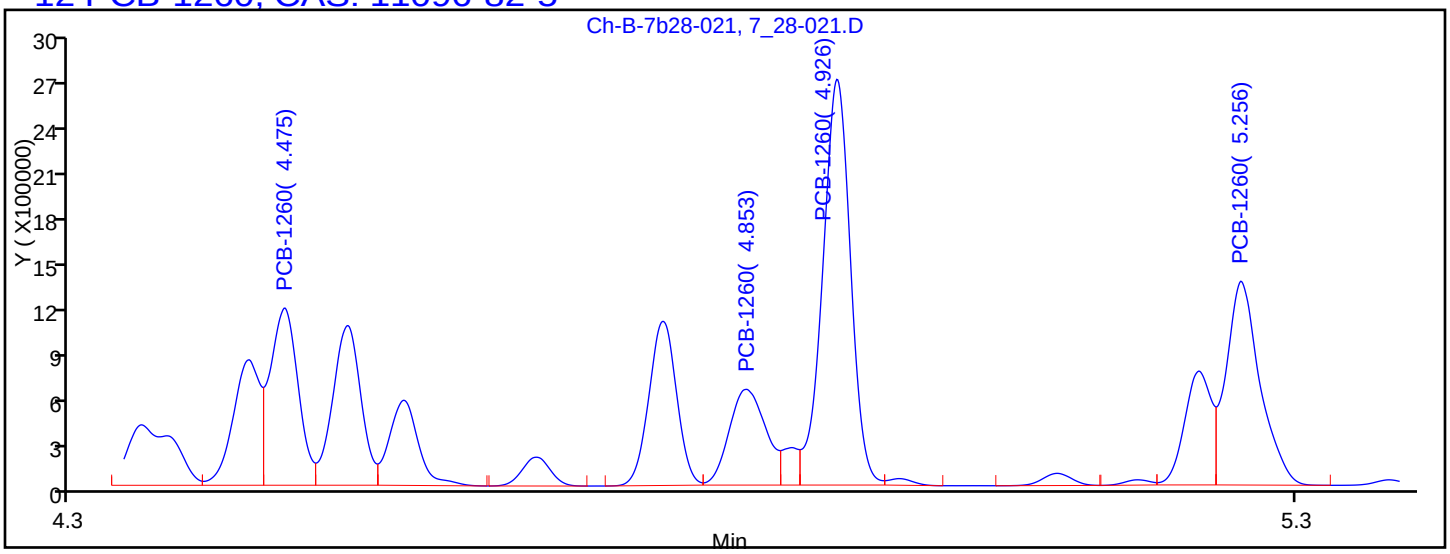
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

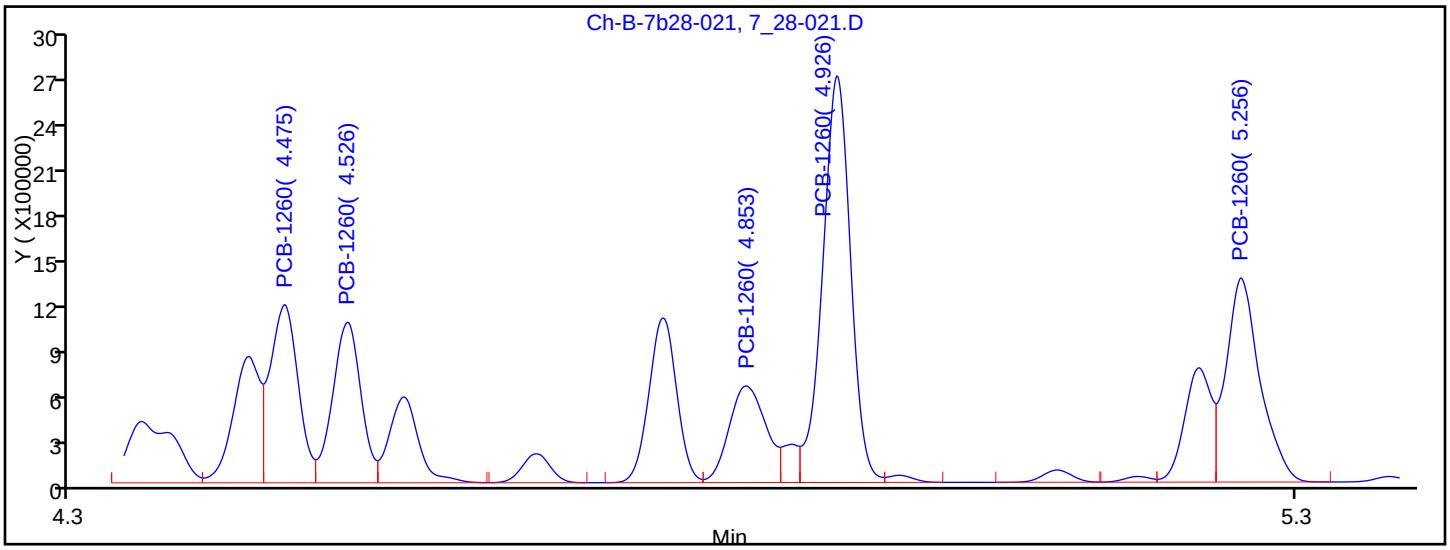
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.475	Response = 1816865
4.784	Response = 1674827
4.853	Response = 1296082
4.926	Response = 4177525
5.256	Response = 2522156



Manual Integration Results

4.475	Response = 1832024	M
4.526	Response = 1681113	M
4.853	Response = 1316272	M
4.926	Response = 4197806	M
5.256	Response = 2530850	M

Reviewer: owenj, 28-Mar-2017 15:47:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 28-Mar-2017 13:16:37 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:08:26

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14198667	0.5000	0.5000	
2	1.050	1.050	0.000	25919091	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.092	2.092	0.000	443674	0.0125	0.0126	
2	1.629	1.629	0.000	736370	0.0125	0.0127	
						RPD = 0.55	
9 PCB-1016							M
1	2.681	2.681	0.000	559237	0.5000	0.5184	
1	2.834	2.834	0.000	343391	0.5000	0.5153	
1	3.038	3.038	0.000	1171814	0.5000	0.5111	
1	3.126	3.126	0.000	439612	0.5000	0.5111	
1	3.188	3.188	0.000	302019	0.5000	0.5088	
		Average of Peak Amounts =				0.5129	
2	2.322	2.322	0.000	924630	0.5000	0.5229	M
2	2.631	2.631	0.000	1883383	0.5000	0.5098	M
2	2.741	2.741	0.000	717244	0.5000	0.5121	M
2	2.833	2.833	0.000	478556	0.5000	0.5090	M
2	3.108	3.108	0.000	824152	0.5000	0.5114	M
		Average of Peak Amounts =				0.5131	
						RPD = 0.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	889920	0.5000	0.4959	
1	5.051	5.051	0.000	497820	0.5000	0.4940	
1	5.243	5.243	0.000	472274	0.5000	0.4962	
1	5.449	5.449	0.000	1182397	0.5000	0.4951	
1	5.706	5.706	0.000	558396	0.5000	0.4927	
		Average of Peak Amounts =				0.4948	
2	4.474	4.474	0.000	937560	0.5000	0.5023	M
2	4.526	4.526	0.000	846078	0.5000	0.4970	M
2	4.850	4.850	0.000	654832	0.5000	0.4930	M
2	4.926	4.926	0.000	2070270	0.5000	0.4860	M
2	5.256	5.256	0.000	1260909	0.5000	0.4890	M
		Average of Peak Amounts =				0.4935	
						RPD = 0.26	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.000	260424	0.0125	0.0128	
2	6.310	6.310	0.000	476855	0.0125	0.0126	
						RPD = 1.54	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.5_00005 Amount Added: 1.00 Units: mL

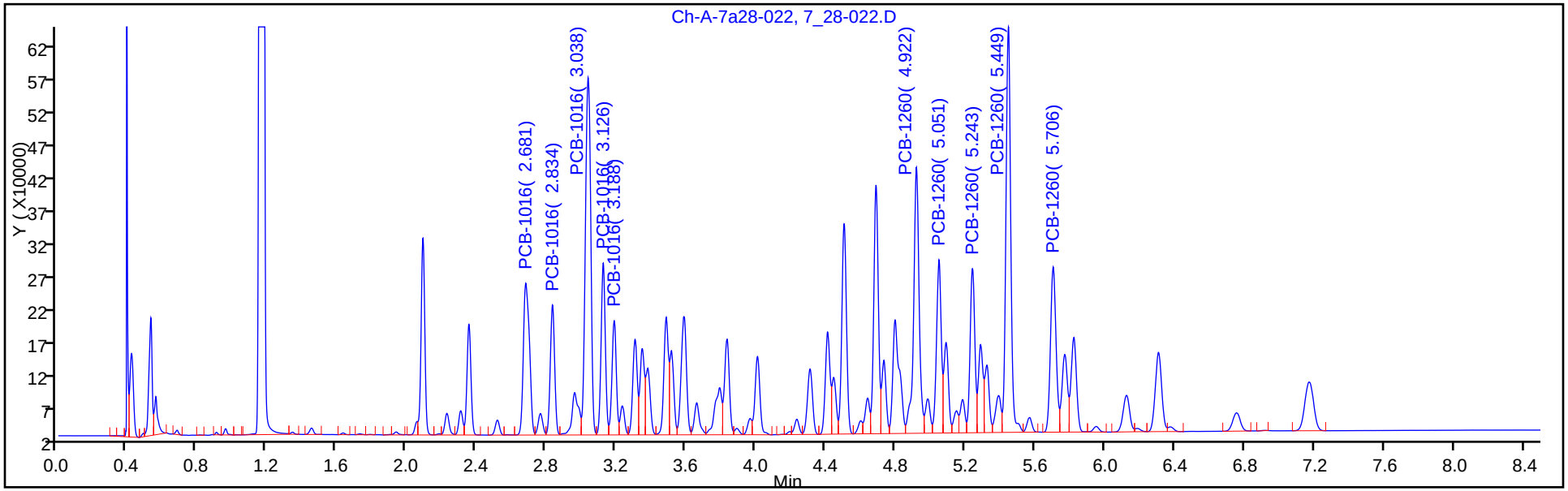
Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

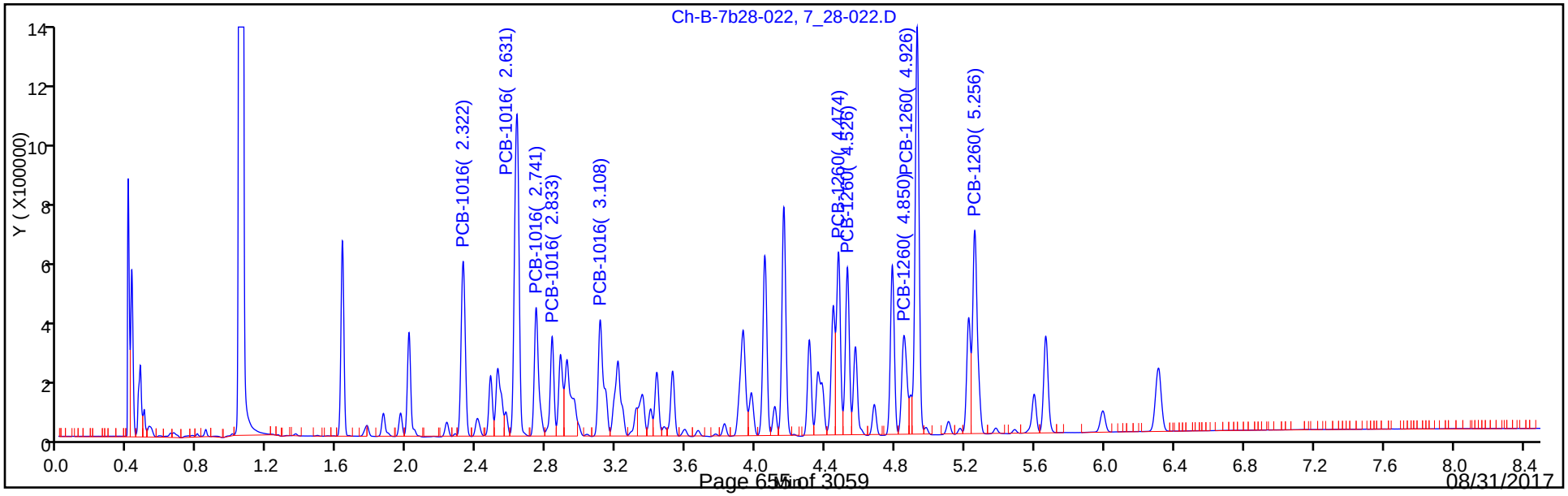
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date:	28-Mar-2017 13:16:37	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	ICIS 5			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date: 28-Mar-2017 13:16:37 Instrument ID: HP6890-7

Lims ID: ICIS 5

Client ID:

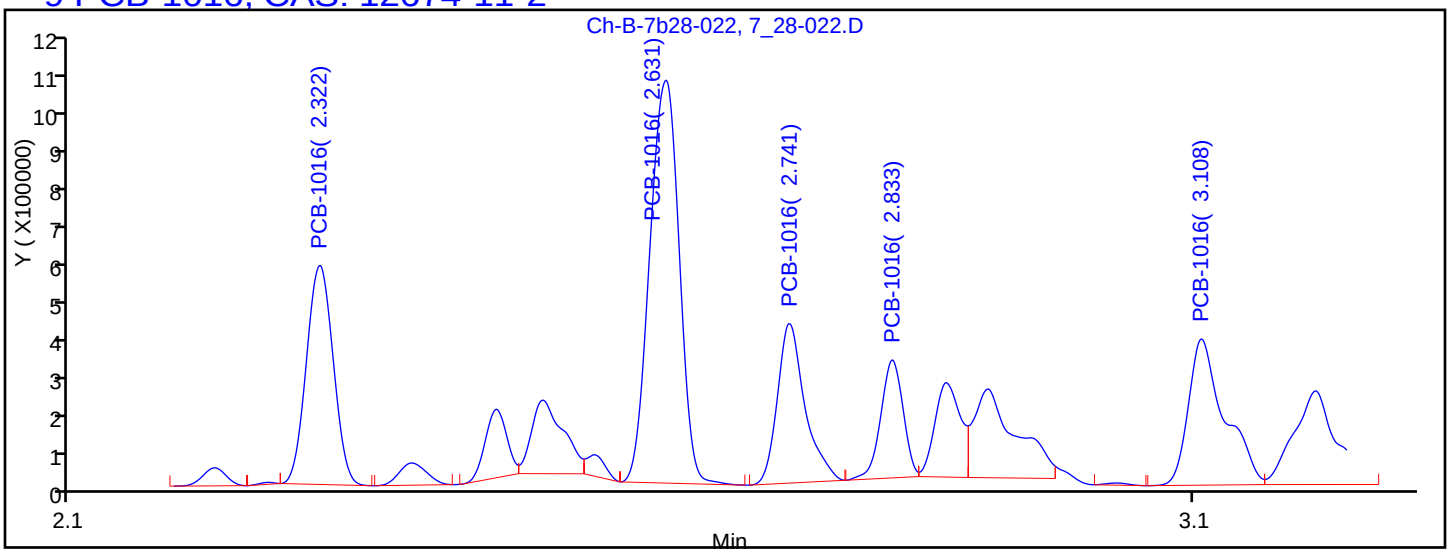
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

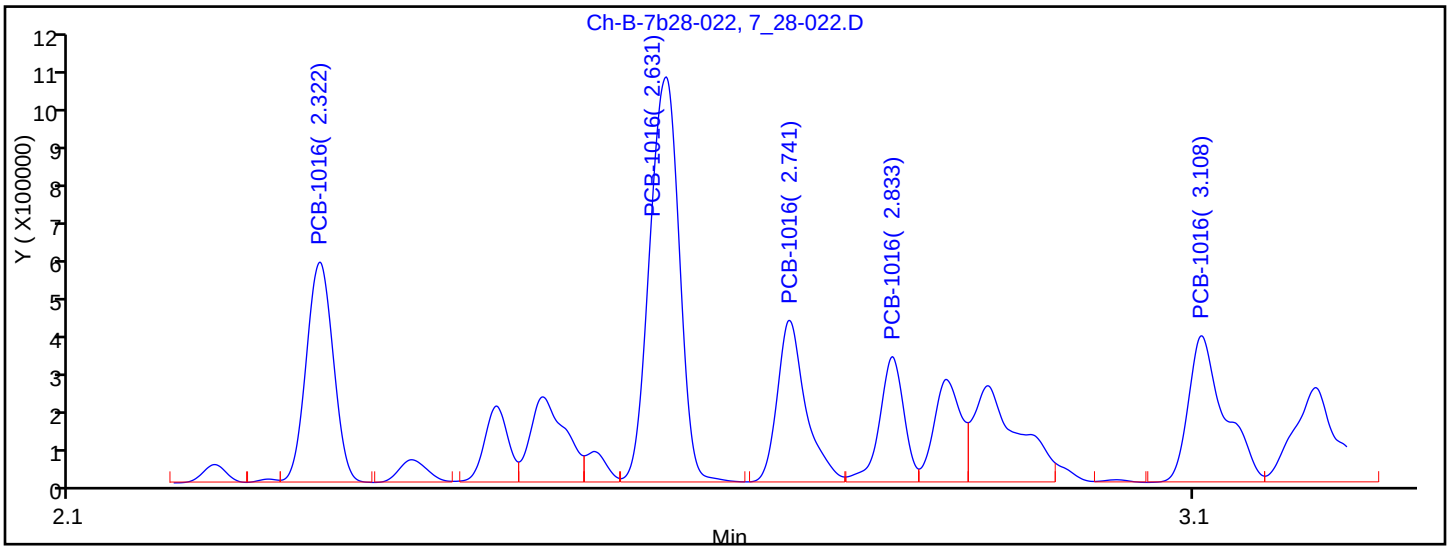
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 916437
2.631	Response = 1855048
2.741	Response = 685140
2.833	Response = 412040
3.108	Response = 823930



Manual Integration Results

2.322	Response = 924630	M
2.631	Response = 1883383	M
2.741	Response = 717244	M
2.833	Response = 478556	M
3.108	Response = 824152	M

Reviewer: owenj, 28-Mar-2017 15:38:19

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-022.D

Injection Date: 28-Mar-2017 13:16:37 Instrument ID: HP6890-7

Lims ID: ICIS 5

Client ID:

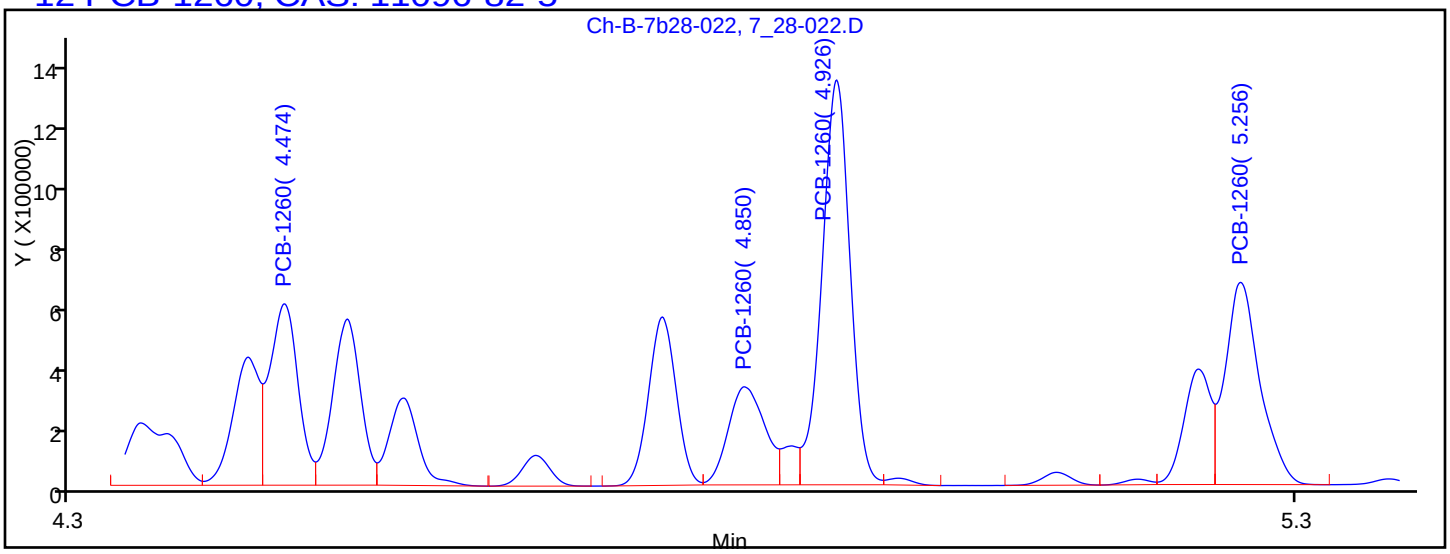
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 9

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

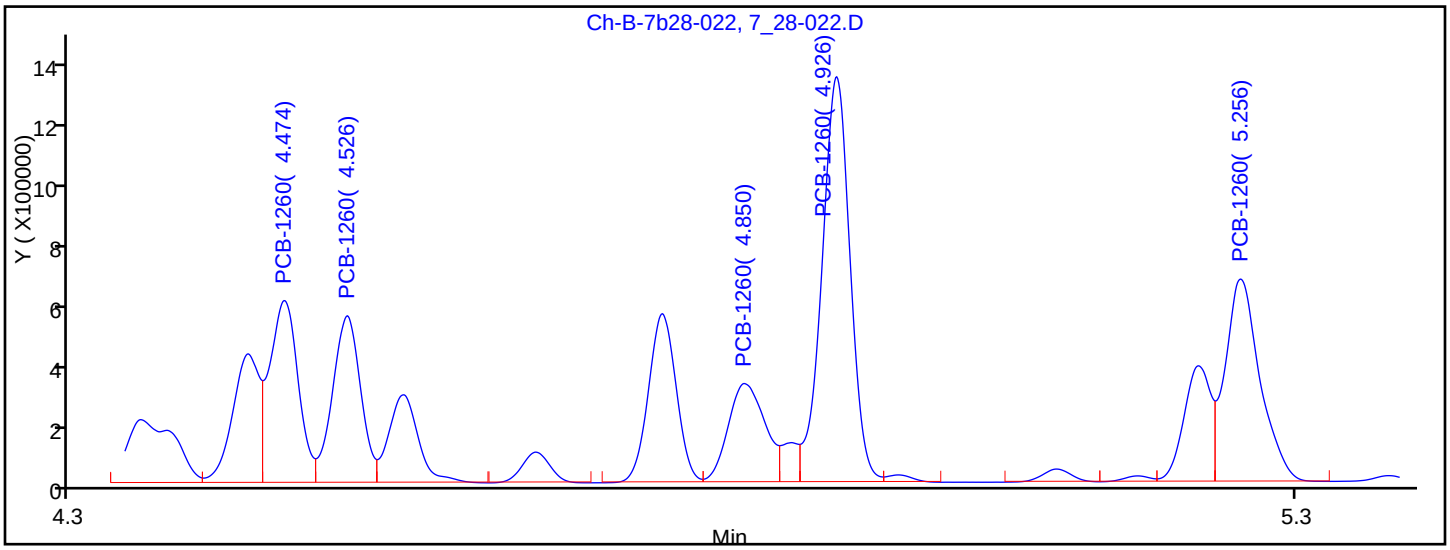
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 934165
4.783	Response = 844891
4.850	Response = 653626
4.926	Response = 2069392
5.256	Response = 1266604



Manual Integration Results

4.474	Response = 937560	M
4.526	Response = 846078	M
4.850	Response = 654832	M
4.926	Response = 2070270	M
5.256	Response = 1260909	M

Reviewer: owenj, 28-Mar-2017 15:38:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Mar-2017 13:32:29 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:51

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14162788	0.5000	0.5000	
2	1.050	1.050	0.000	25970868	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	190560	0.005000	0.005152	
2	1.629	1.629	0.000	314174	0.005000	0.005296	
						RPD = 2.77	
9 PCB-1016							M
1	2.679	2.681	-0.002	240440	0.2000	0.2113	
1	2.833	2.834	-0.001	146148	0.2000	0.2034	
1	3.038	3.038	0.000	477683	0.2000	0.2038	
1	3.124	3.126	-0.002	183983	0.2000	0.2049	
1	3.187	3.188	-0.001	124672	0.2000	0.2042	
		Average of Peak Amounts =				0.2055	
2	2.322	2.322	0.000	407072	0.2000	0.2144	M
2	2.630	2.631	-0.001	801927	0.2000	0.2095	M
2	2.740	2.741	-0.001	312839	0.2000	0.2140	M
2	2.832	2.833	0.000	208461	0.2000	0.2145	M
2	3.107	3.108	-0.001	357784	0.2000	0.2152	M
		Average of Peak Amounts =				0.2135	
						RPD = 3.82	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.921	4.922	-0.001	366134	0.2000	0.1984	
1	5.050	5.051	-0.001	209980	0.2000	0.2029	
1	5.242	5.243	0.000	198801	0.2000	0.2032	
1	5.447	5.449	-0.002	484581	0.2000	0.1990	
1	5.704	5.706	-0.002	236680	0.2000	0.2027	
		Average of Peak Amounts =				0.2013	
2	4.473	4.474	-0.001	388118	0.2000	0.2015	M
2	4.525	4.526	-0.001	355175	0.2000	0.2037	M
2	4.851	4.850	0.001	278936	0.2000	0.2064	M
2	4.925	4.926	-0.001	839381	0.2000	0.1962	M
2	5.255	5.256	-0.001	513815	0.2000	0.1978	M
		Average of Peak Amounts =				0.2011	
						RPD = 0.07	
$ 15 DCB Decachlorobiphenyl							
1	7.173	7.173	0.001	114381	0.005000	0.005241	
2	6.309	6.310	-0.001	197094	0.005000	0.004970	
						RPD = 5.30	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.2_00005 Amount Added: 1.00 Units: mL

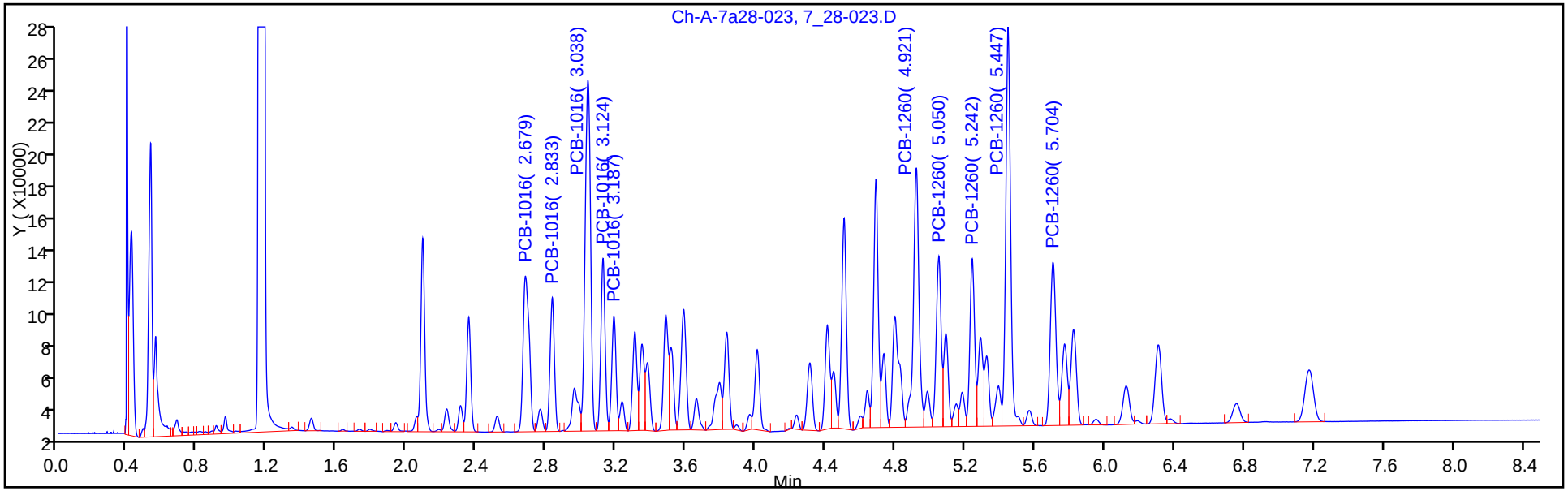
Report Date: 29-Mar-2017 10:53:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

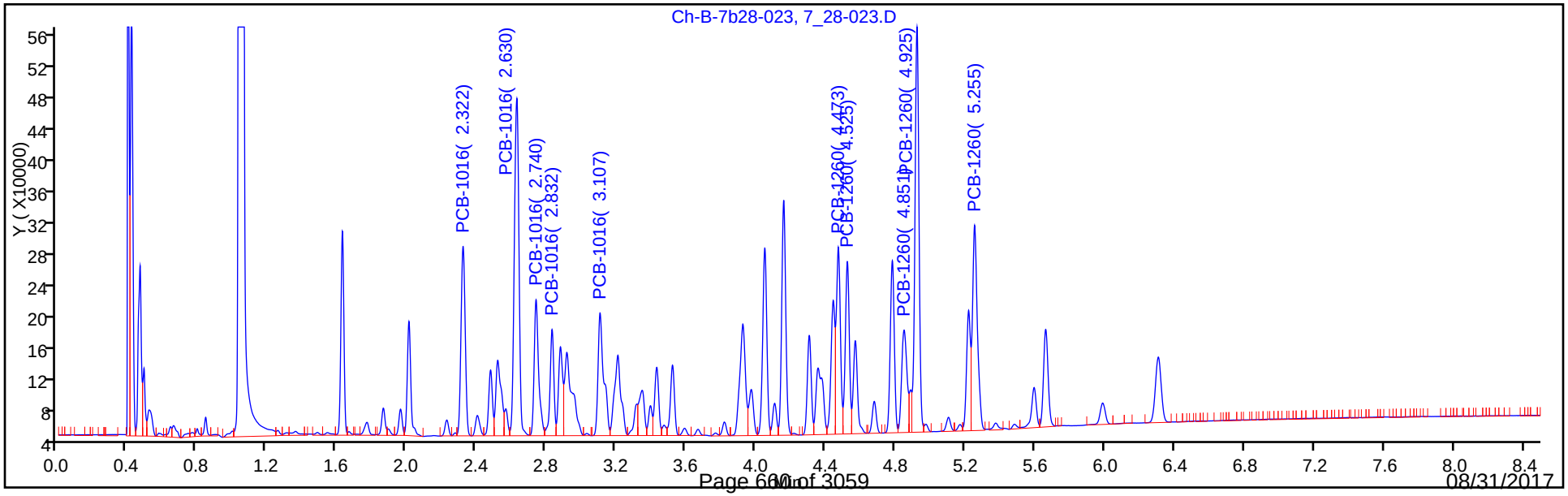
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date:	28-Mar-2017 13:32:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 4			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date: 28-Mar-2017 13:32:29 Instrument ID: HP6890-7

Lims ID: IC 4

Client ID:

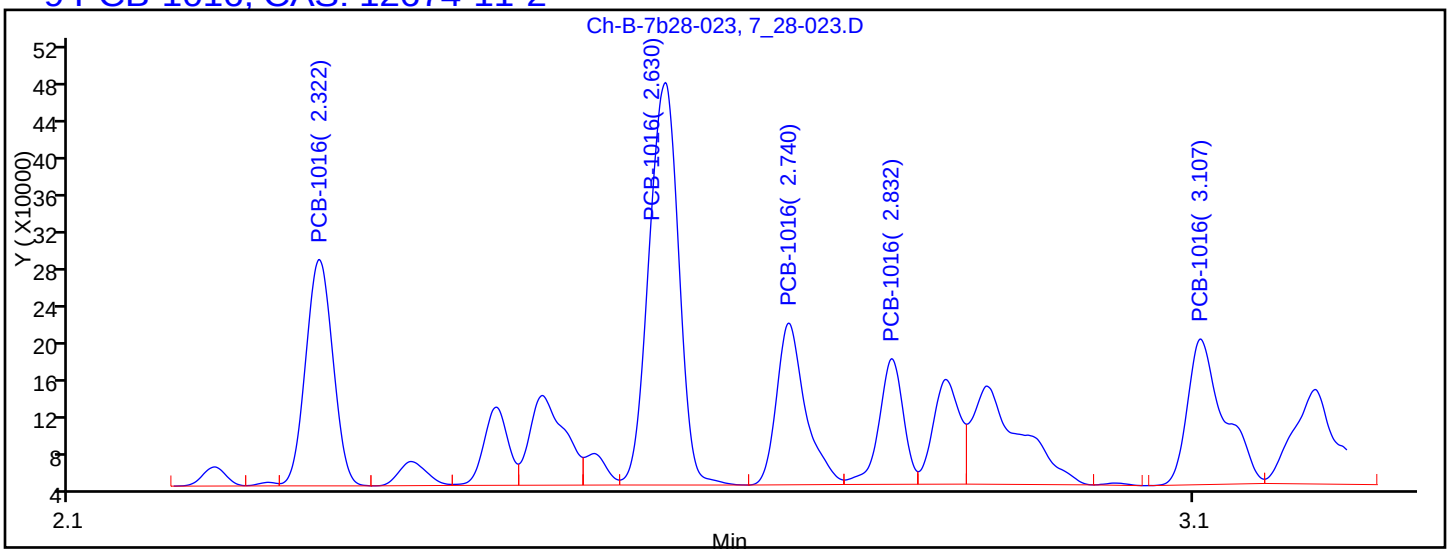
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

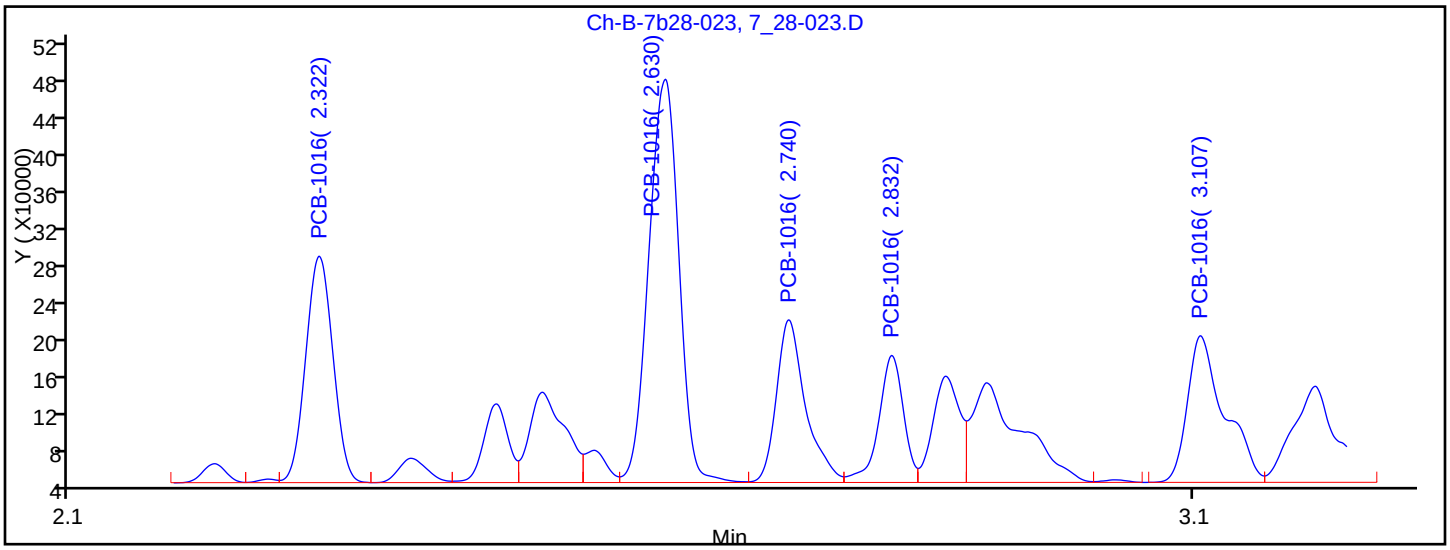
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 407180
2.630	Response = 796583
2.740	Response = 307654
2.832	Response = 202878
3.107	Response = 350998



Manual Integration Results

2.322	Response = 407072	M
2.630	Response = 801927	M
2.740	Response = 312839	M
2.832	Response = 208461	M
3.107	Response = 357784	M

Reviewer: owenj, 28-Mar-2017 15:38:51

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-023.D

Injection Date: 28-Mar-2017 13:32:29 Instrument ID: HP6890-7

Lims ID: IC 4

Client ID:

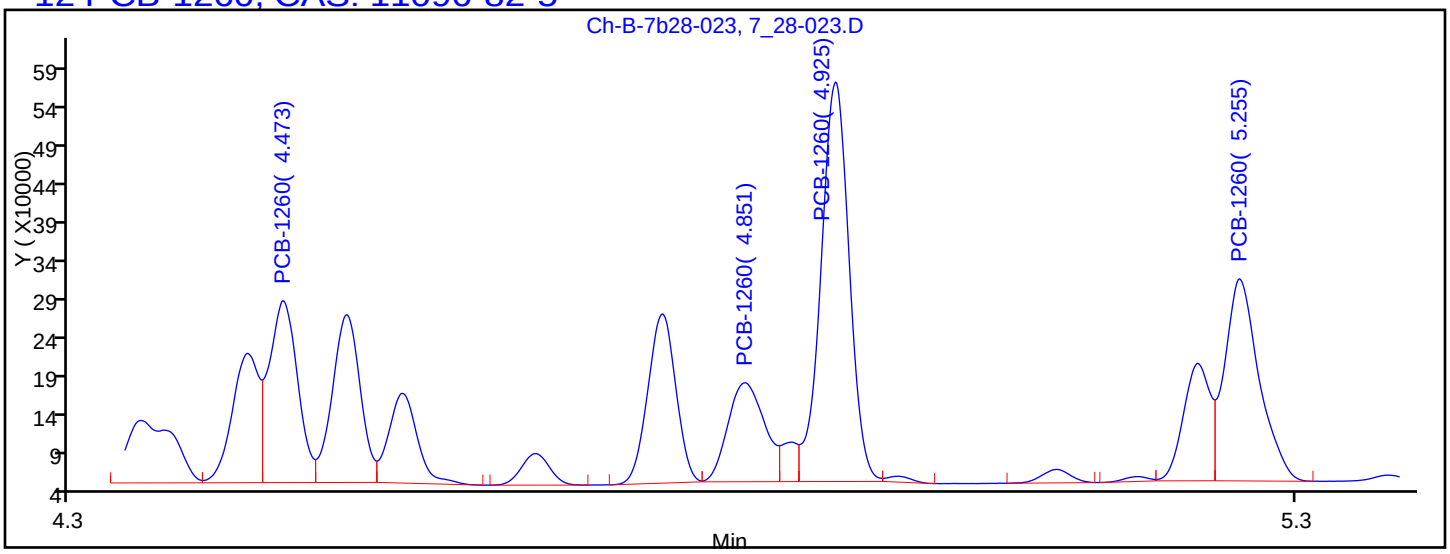
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

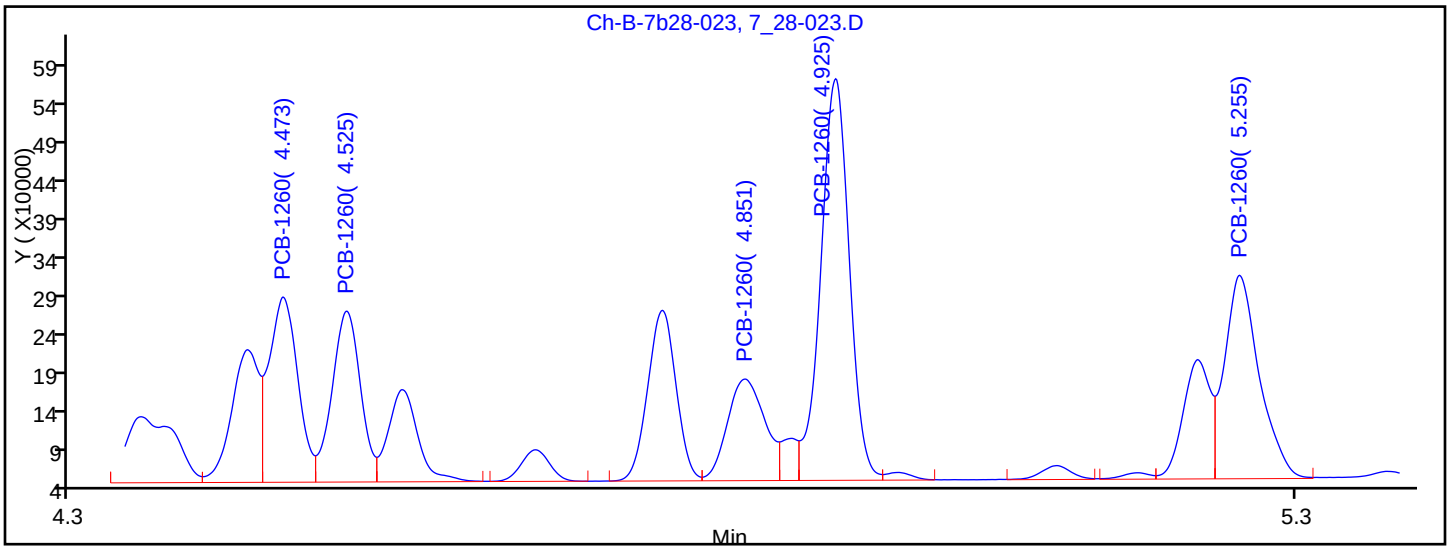
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.473	Response = 376487
4.783	Response = 345644
4.851	Response = 265575
4.925	Response = 825538
5.255	Response = 505120



Manual Integration Results

4.473	Response = 388118	M
4.525	Response = 355175	M
4.851	Response = 278936	M
4.925	Response = 839381	M
5.255	Response = 513815	M

Reviewer: owenj, 28-Mar-2017 15:46:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 13:48:24 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:51 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:07:15

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14095092	0.5000	0.5000	
2	1.051	1.050	0.001	25666794	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.090	2.092	-0.002	103225	0.002500	0.002588	
2	1.629	1.629	0.000	165536	0.002500	0.002747	
						RPD = 5.96	
9 PCB-1016							
1	2.680	2.681	-0.001	131166	0.1000	0.1062	
1	2.833	2.834	-0.002	79759	0.1000	0.0986	
1	3.038	3.038	0.000	252373	0.1000	0.1042	
1	3.123	3.126	-0.003	101002	0.1000	0.1056	
1	3.187	3.188	-0.001	68213	0.1000	0.1074	
		Average of Peak Amounts =				0.1044	
2	2.322	2.322	0.000	221184	0.1000	0.1056	
2	2.629	2.631	-0.002	427950	0.1000	0.1075	
2	2.740	2.741	-0.001	168178	0.1000	0.1092	
2	2.832	2.833	0.000	111933	0.1000	0.1110	
2	3.108	3.108	0.000	191892	0.1000	0.1117	
		Average of Peak Amounts =				0.1090	
						RPD = 4.30	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.922	-0.002	195331	0.1000	0.1015	
1	5.048	5.051	-0.003	113127	0.1000	0.1051	
1	5.242	5.243	0.000	106177	0.1000	0.1041	
1	5.447	5.449	-0.002	248968	0.1000	0.0992	
1	5.705	5.706	-0.001	125509	0.1000	0.1027	
		Average of Peak Amounts =				0.1025	
2	4.474	4.474	0.000	203046	0.1000	0.1018	M
2	4.525	4.526	-0.001	186861	0.1000	0.1048	M
2	4.850	4.850	0.000	145043	0.1000	0.1059	M
2	4.924	4.926	-0.002	425544	0.1000	0.1003	M
2	5.255	5.256	-0.001	256997	0.1000	0.0992	M
		Average of Peak Amounts =				0.1024	
						RPD = 0.11	
$ 15 DCB Decachlorobiphenyl							
1	7.175	7.173	0.003	61259	0.002500	0.002505	
2	6.309	6.310	-0.001	105526	0.002500	0.002523	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is0.1_00006 Amount Added: 1.00 Units: mL

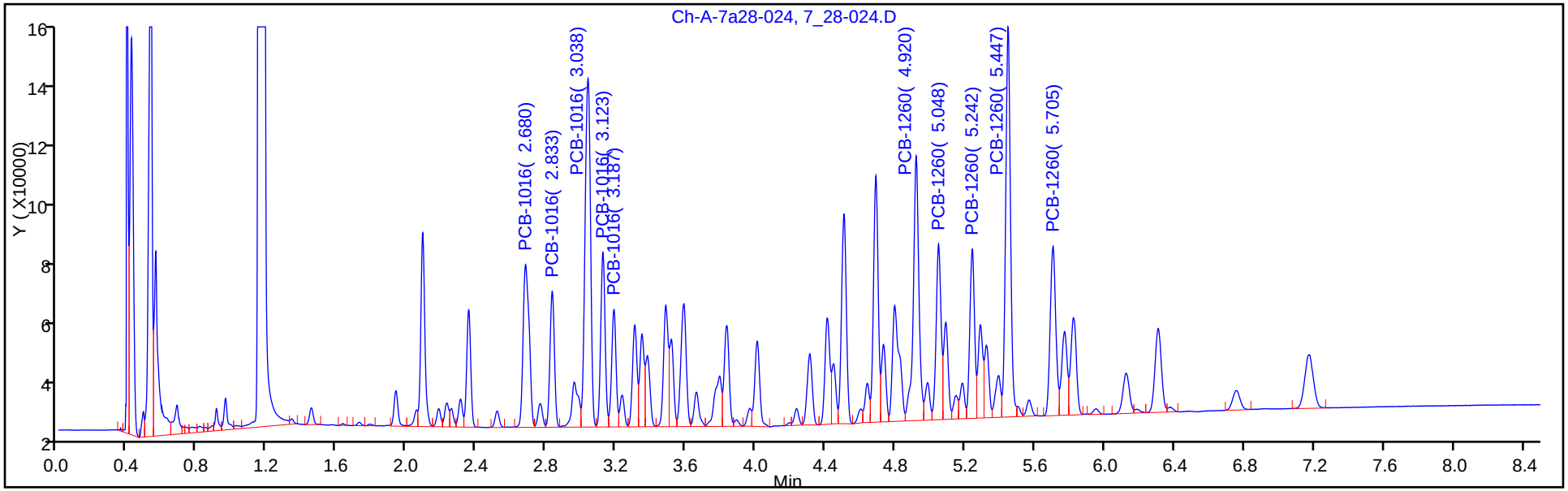
Report Date: 29-Mar-2017 10:53:52 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

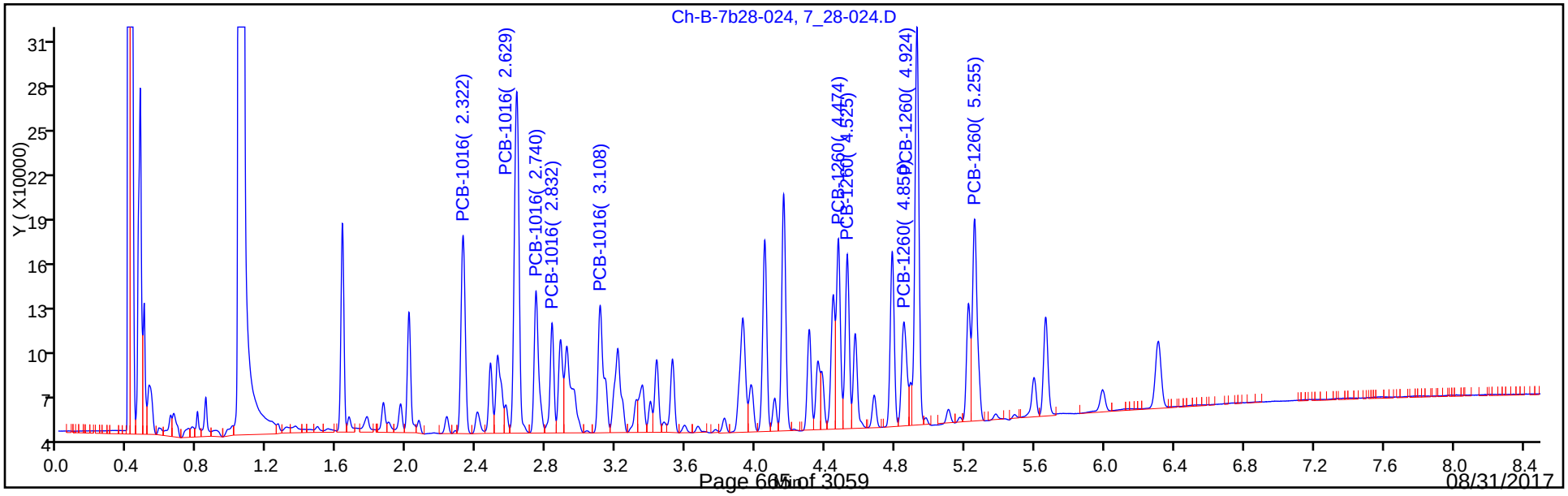
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D

Injection Date:	28-Mar-2017 13:48:24	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:53:52 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-024.D

Injection Date: 28-Mar-2017 13:48:24 Instrument ID: HP6890-7

Lims ID: IC 3

Client ID:

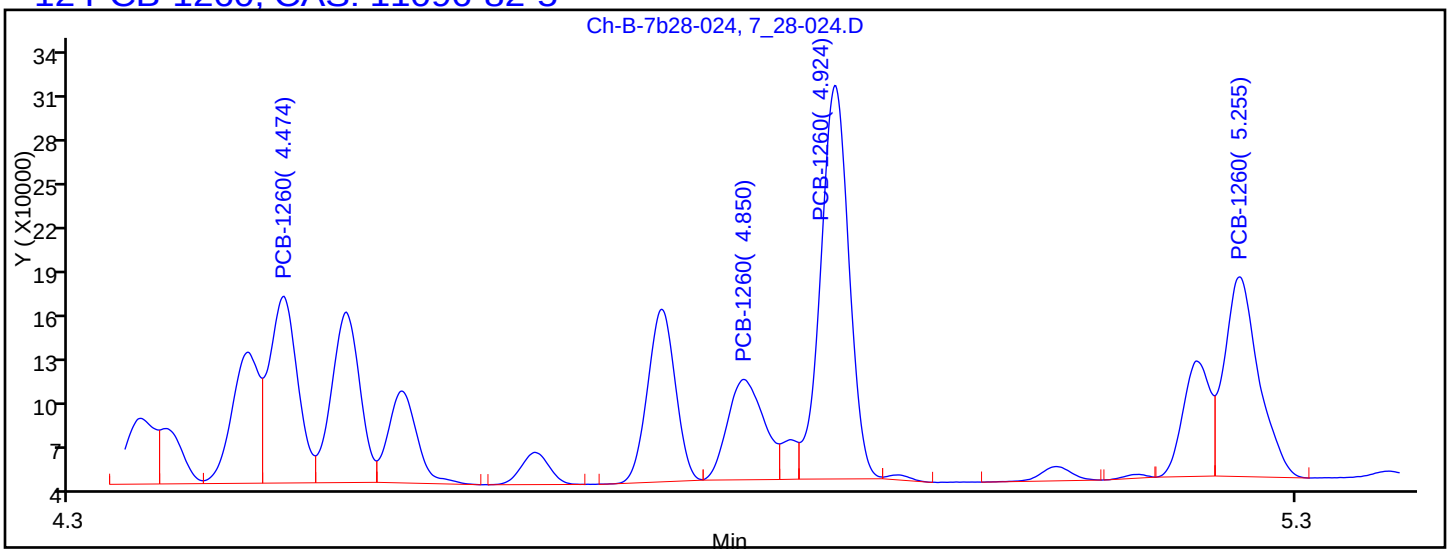
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

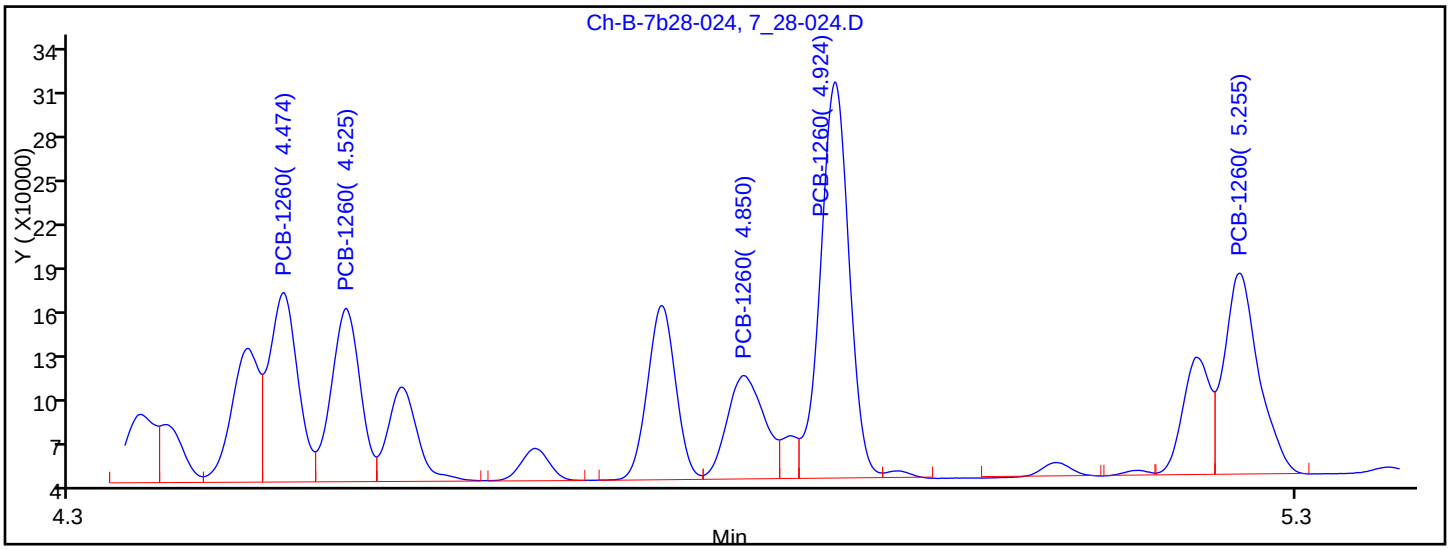
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 197840
4.783	Response = 178698
4.850	Response = 137219
4.924	Response = 417276
5.255	Response = 254451



Manual Integration Results

4.474	Response = 203046	M
4.525	Response = 186861	M
4.850	Response = 145043	M
4.924	Response = 425544	M
5.255	Response = 256997	M

Reviewer: owenj, 28-Mar-2017 15:45:50

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 14:04:23 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:55 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 14:59:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.168	0.000	14205944	0.5000	0.5000	
2	1.051	1.050	0.001	25850188	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.091	2.092	-0.001	54964	0.001250	0.001144	M
2	1.630	1.629	0.001	88309	0.001250	0.001378	M
						RPD = 18.55	
9 PCB-1016							M
1	2.679	2.681	-0.002	70180	0.0500	0.0464	M
1	2.833	2.834	-0.001	42348	0.0500	0.0384	M
1	3.039	3.038	0.001	131470	0.0500	0.0497	M
1	3.123	3.126	-0.003	54848	0.0500	0.0493	M
1	3.188	3.188	0.000	35957	0.0500	0.0510	M
		Average of Peak Amounts =				0.0470	
2	2.322	2.322	0.000	119218	0.0500	0.0438	M
2	2.630	2.631	-0.001	231069	0.0500	0.0519	M
2	2.741	2.741	0.000	89547	0.0500	0.0503	M
2	2.833	2.833	0.000	58550	0.0500	0.0519	M
2	3.108	3.108	0.000	99815	0.0500	0.0523	M
		Average of Peak Amounts =				0.0500	
						RPD = 6.32	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.922	4.922	0.000	103183	0.0500	0.0482	
1	5.049	5.051	-0.002	59743	0.0500	0.0501	
1	5.243	5.243	0.000	56806	0.0500	0.0503	
1	5.448	5.449	-0.001	133445	0.0500	0.0493	
1	5.706	5.706	0.000	67285	0.0500	0.0492	
		Average of Peak Amounts =				0.0494	
2	4.474	4.474	0.000	107037	0.0500	0.0484	M
2	4.526	4.526	0.000	97606	0.0500	0.0506	M
2	4.850	4.850	0.000	75849	0.0500	0.0523	M
2	4.926	4.926	0.000	218116	0.0500	0.0507	M
2	5.255	5.256	-0.001	134029	0.0500	0.0505	M
		Average of Peak Amounts =				0.0505	
						RPD = 2.12	
$ 15 DCB Decachlorobiphenyl							
1	7.174	7.173	0.002	32445	0.001250	0.000992	
2	6.310	6.310	0.000	57089	0.001250	0.001184	
						RPD = 17.63	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.05_00005 Amount Added: 1.00 Units: mL

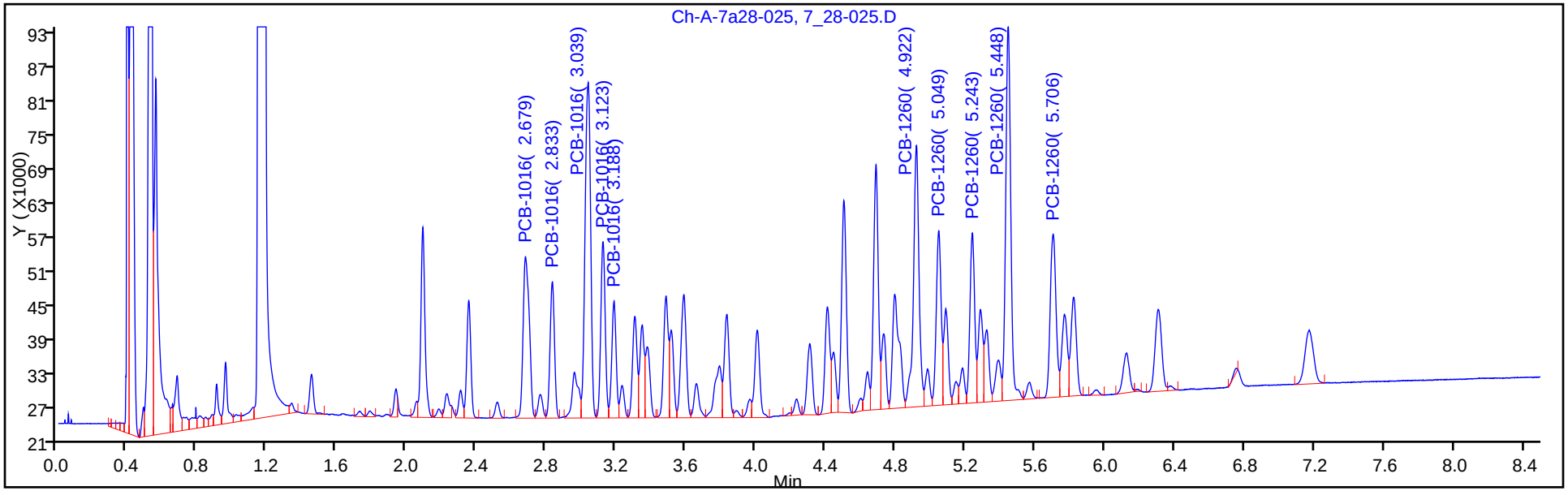
Report Date: 29-Mar-2017 10:53:56 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

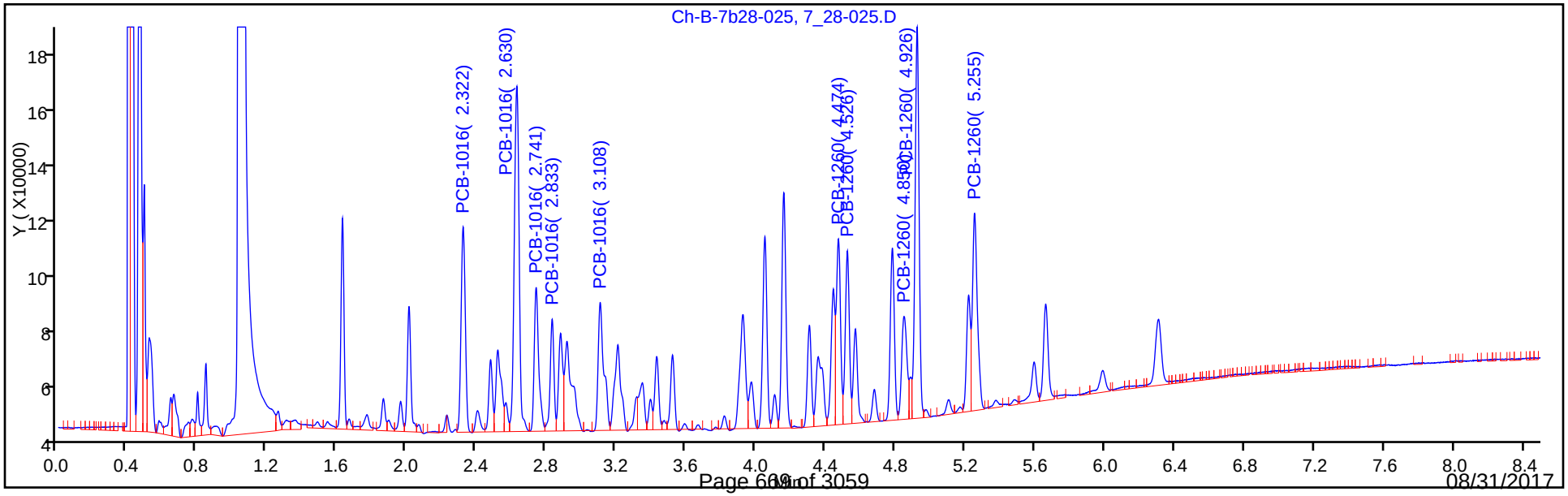
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date:	28-Mar-2017 14:04:23	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

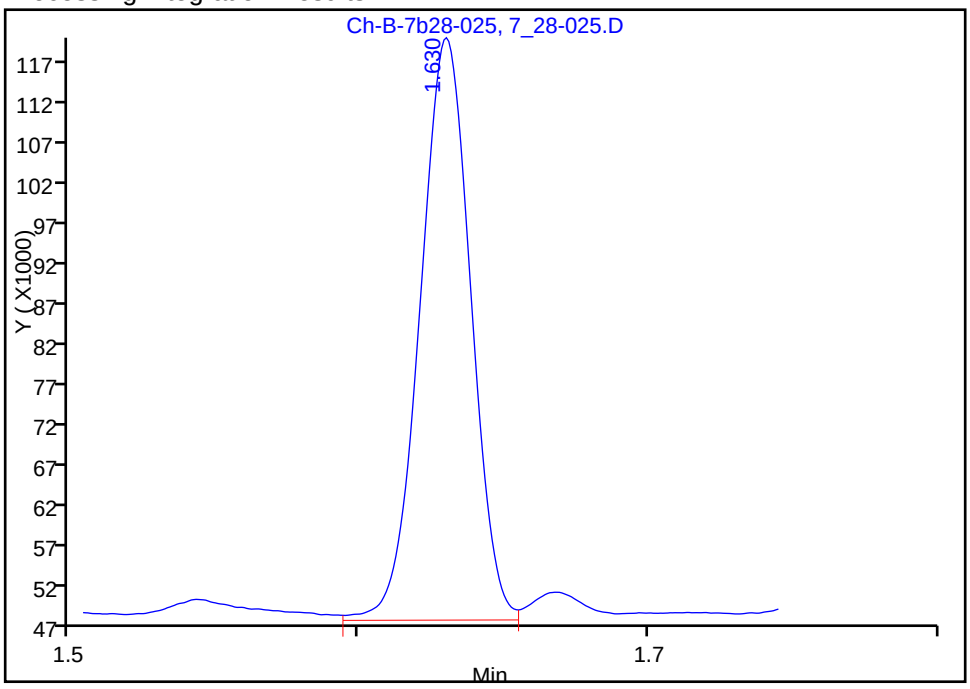
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D
Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7
Lims ID: IC 2
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

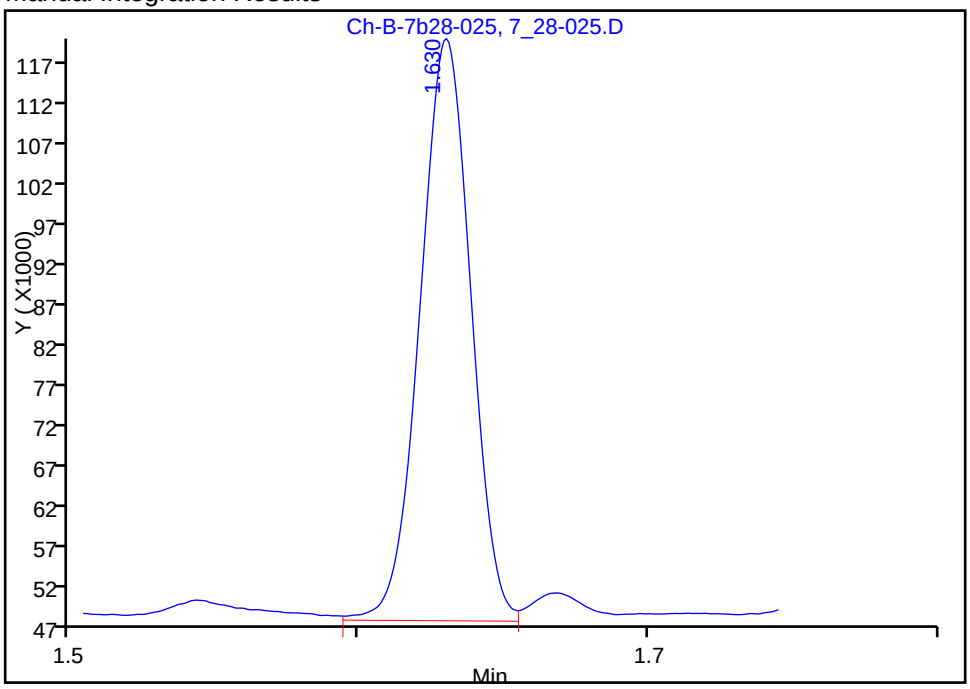
Processing Integration Results

RT: 1.63
Area: 88411
Amount: 0.001437
Amount Units: ng/uL



Manual Integration Results

RT: 1.63
Area: 88309
Amount: 0.001378
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:40:13
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:56 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

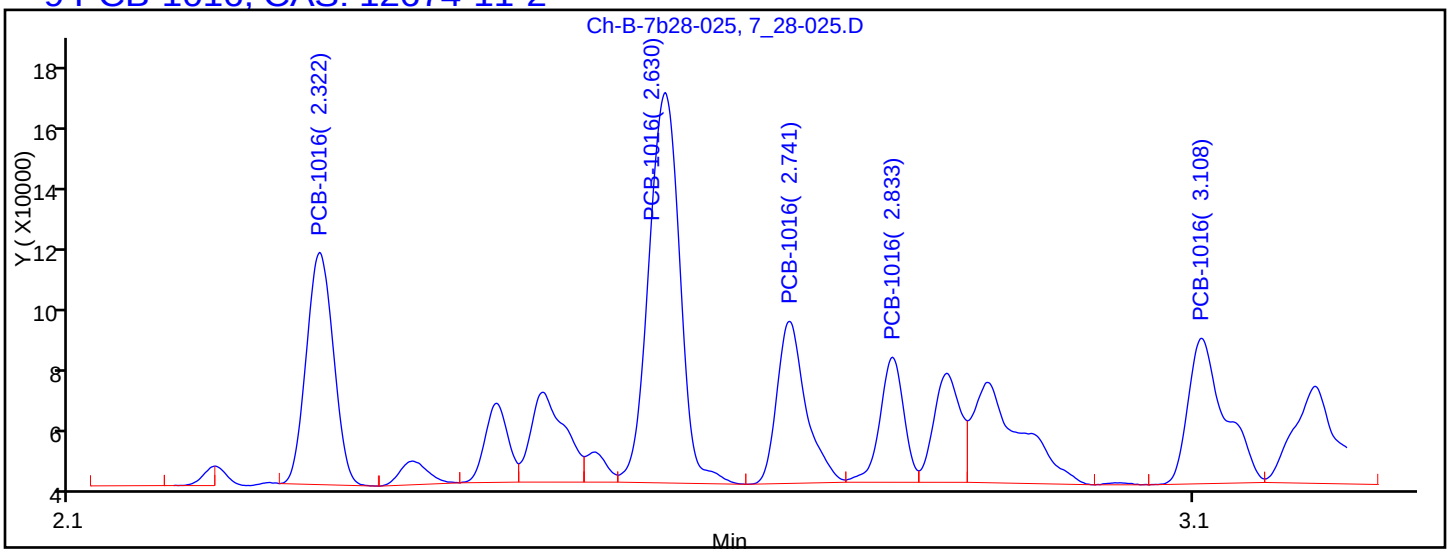
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

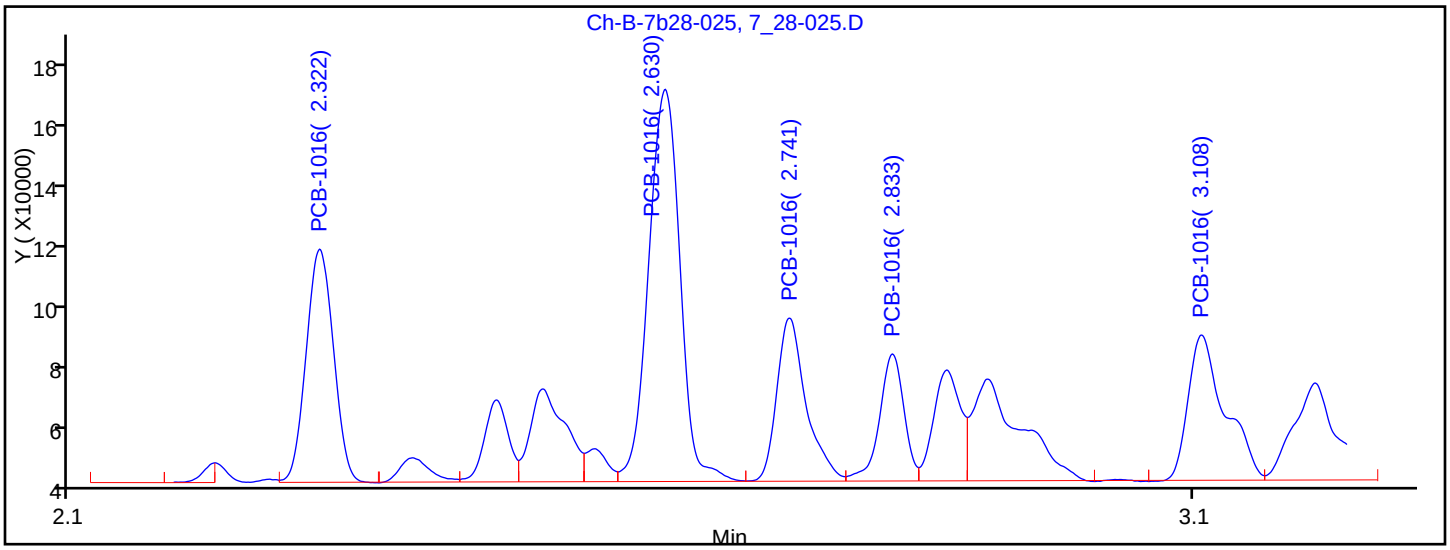
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.322	Response = 118084
2.630	Response = 227918
2.741	Response = 87580
2.833	Response = 56162
3.108	Response = 99973



Manual Integration Results

2.322	Response = 119218	M
2.630	Response = 231069	M
2.741	Response = 89547	M
2.833	Response = 58550	M
3.108	Response = 99815	M

Reviewer: owenj, 28-Mar-2017 15:40:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:53:56 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-025.D

Injection Date: 28-Mar-2017 14:04:23 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

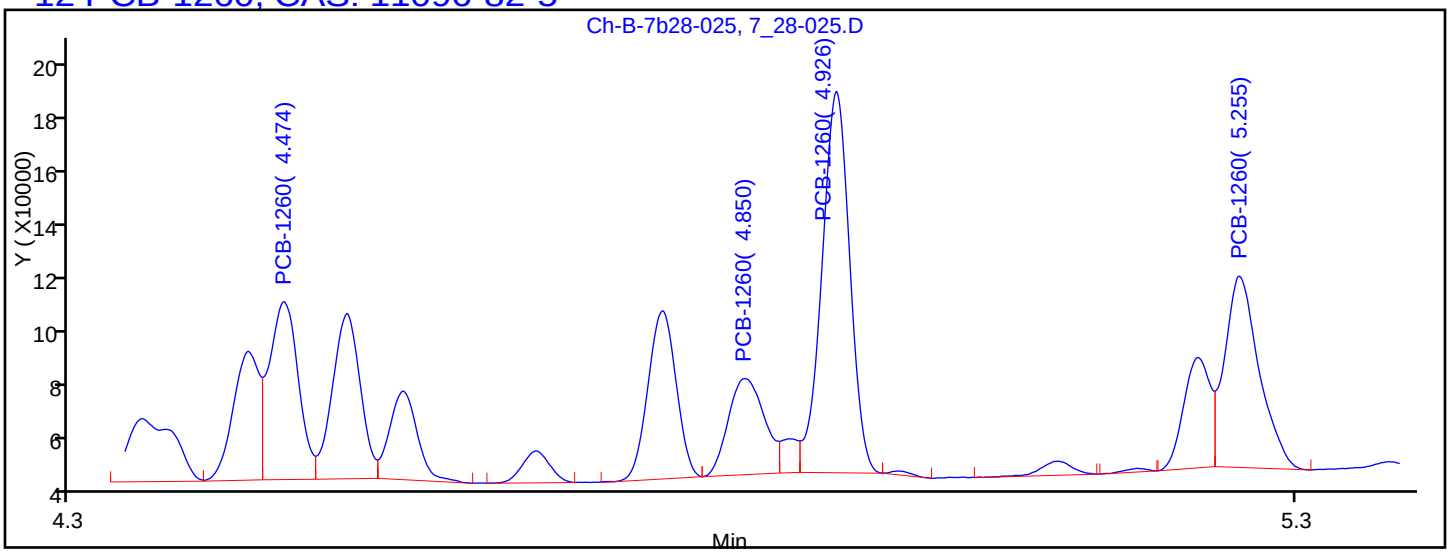
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

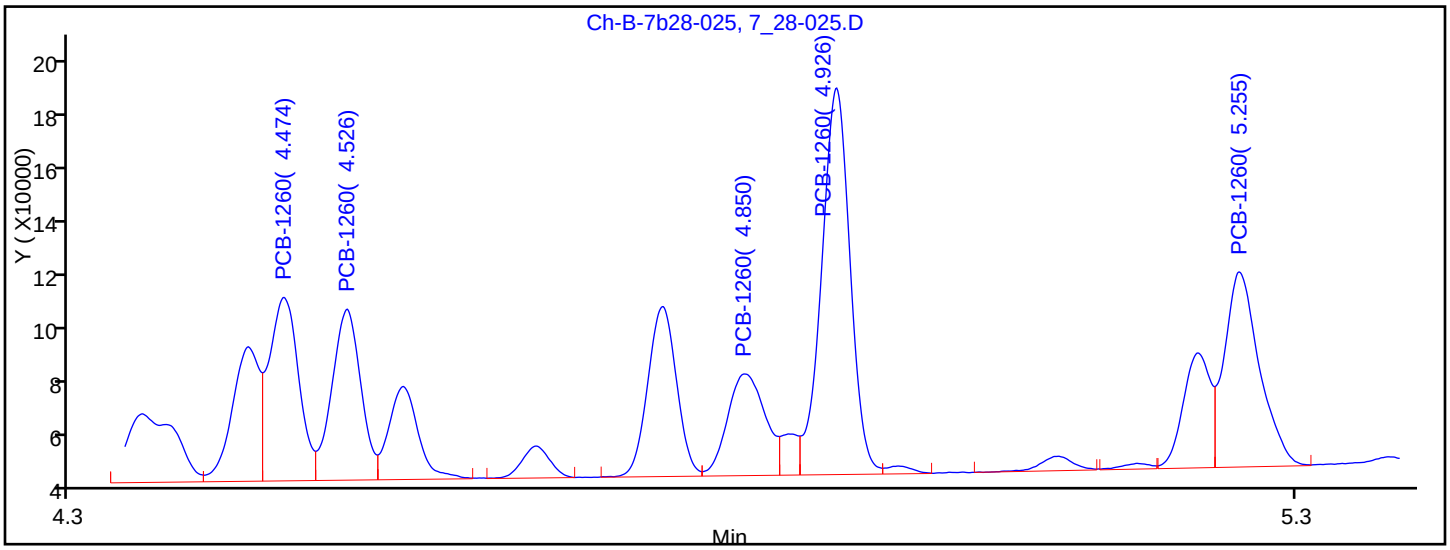
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.474	Response = 101360
4.783	Response = 93054
4.850	Response = 68237
4.926	Response = 208736
5.255	Response = 128774



Manual Integration Results

4.474	Response = 107037	M
4.526	Response = 97606	M
4.850	Response = 75849	M
4.926	Response = 218116	M
5.255	Response = 134029	M

Reviewer: owenj, 28-Mar-2017 15:45:01

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 14:20:25 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:53:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 15:06:03

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.166	0.000	13792920	0.5000	0.5000	
2	1.049	1.049	0.000	24913854	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.092	2.092	0.000	32243	0.000500	0.000504	
2	1.628	1.628	0.000	29453	0.000500	0.000370	M
						RPD = 30.68	
9 PCB-1016							M
1	2.678	2.678	0.000	40090	0.0200	0.0185	M
1	2.833	2.833	0.000	32281	0.0200	0.0240	M
1	3.038	3.038	0.000	59419	0.0200	0.0186	M
1	3.124	3.124	0.000	28193	0.0200	0.0184	M
1	3.187	3.187	0.000	16055	0.0200	0.0176	M
		Average of Peak Amounts =				0.0194	
2	2.320	2.320	0.000	75232	0.0200	0.0192	M
2	2.629	2.629	0.000	100551	0.0200	0.0166	M
2	2.741	2.741	0.000	42091	0.0200	0.0164	M
2	2.832	2.832	0.000	24350	0.0200	0.0155	M
2	3.108	3.108	0.000	39819	0.0200	0.0151	M
		Average of Peak Amounts =				0.0166	
						RPD = 15.66	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.920	4.920	0.000	53350	0.0200	0.0208	M
1	5.050	5.050	0.000	28146	0.0200	0.0190	M
1	5.243	5.243	0.000	26897	0.0200	0.0191	M
1	5.448	5.448	0.000	64230	0.0200	0.0207	M
1	5.705	5.705	0.000	33766	0.0200	0.0199	M
		Average of Peak Amounts =				0.0199	
2	4.460	4.460	0.000	53484	0.0200	0.0201	M
2	4.525	4.525	0.000	42671	0.0200	0.0186	M
2	4.850	4.850	0.000	29246	0.0200	0.0176	M
2	4.925	4.925	0.000	87081	0.0200	0.0206	M
2	5.256	5.256	0.000	55612	0.0200	0.0207	M
		Average of Peak Amounts =				0.0195	
						RPD = 1.86	
$ 15 DCB Decachlorobiphenyl							M
1	7.180	7.180	0.000	23559	0.000500	0.000570	M
2	6.309	6.309	0.000	31563	0.000500	0.000522	M
						RPD = 8.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1660sur/is.02_00005 Amount Added: 1.00 Units: mL

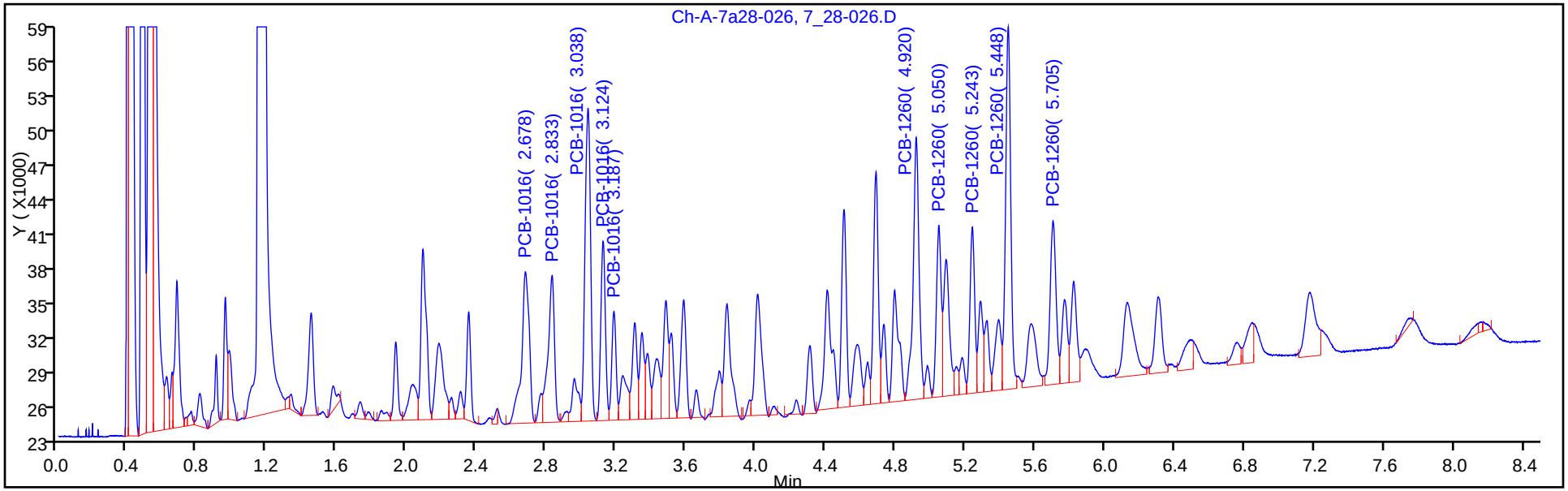
Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

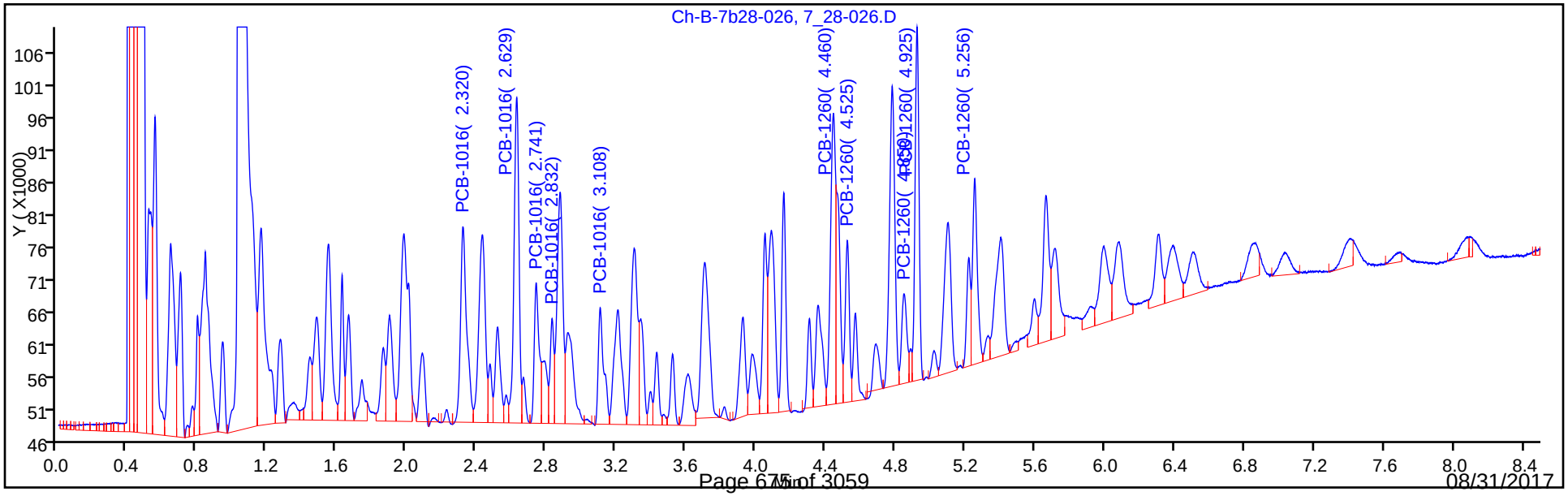
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date:	28-Mar-2017 14:20:25	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

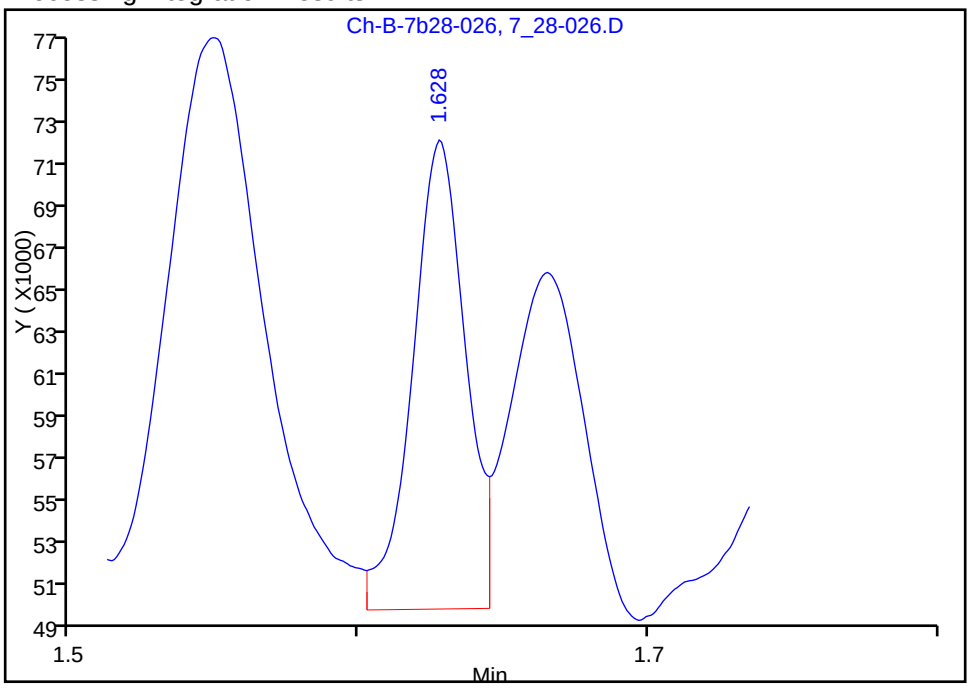
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

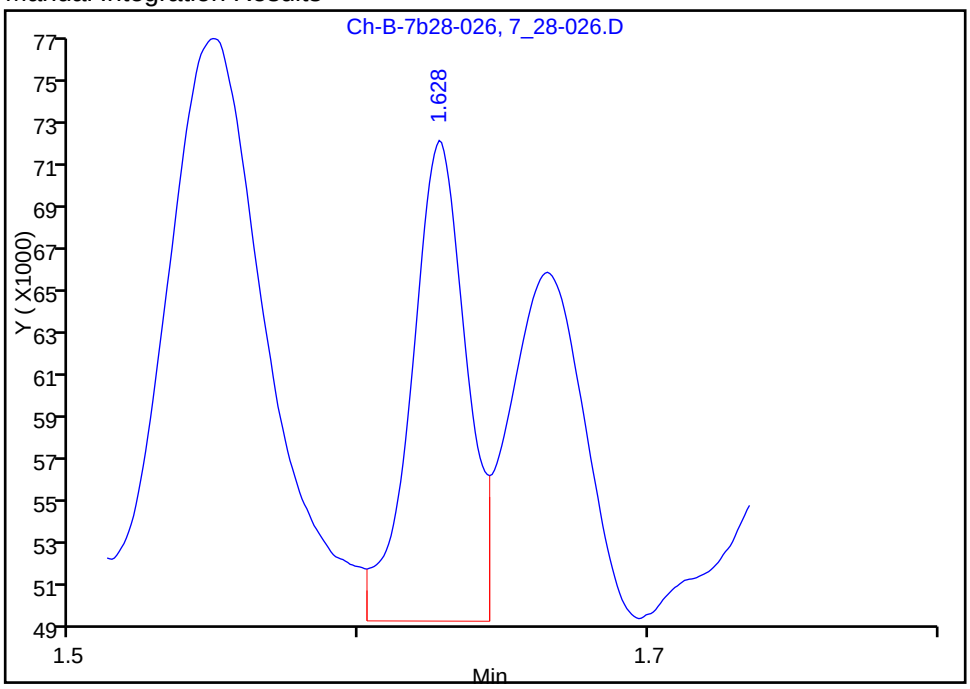
Processing Integration Results

RT: 1.63
Area: 27834
Amount: 0.000469
Amount Units: ng/uL



Manual Integration Results

RT: 1.63
Area: 29453
Amount: 0.000370
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:40:51
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

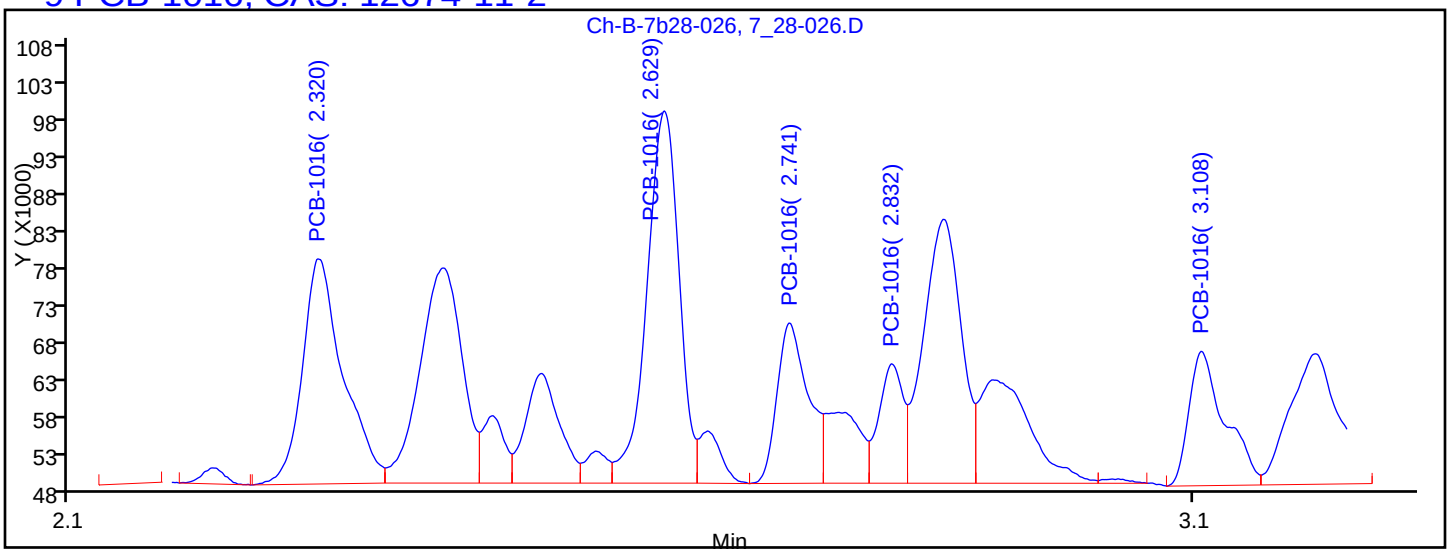
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

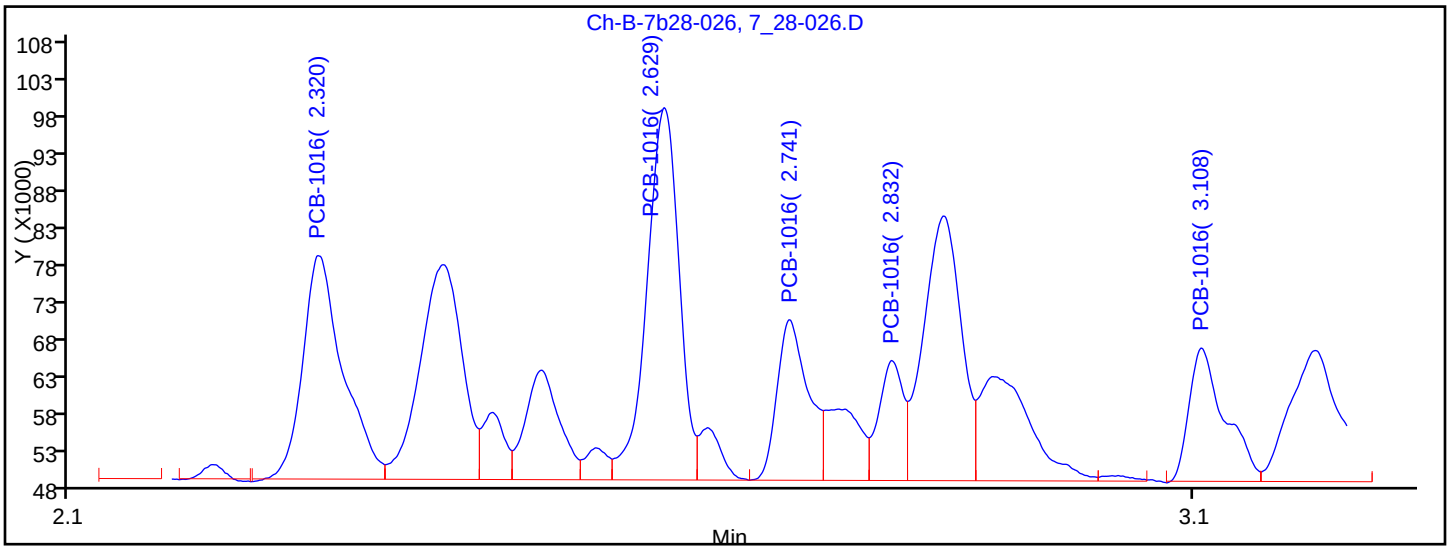
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.320	Response = 76804
2.629	Response = 100501
2.741	Response = 42000
2.832	Response = 24183
3.108	Response = 40448



Manual Integration Results

2.320	Response = 75232	M
2.629	Response = 100551	M
2.741	Response = 42091	M
2.832	Response = 24350	M
3.108	Response = 39819	M

Reviewer: owenj, 28-Mar-2017 15:40:51

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D

Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

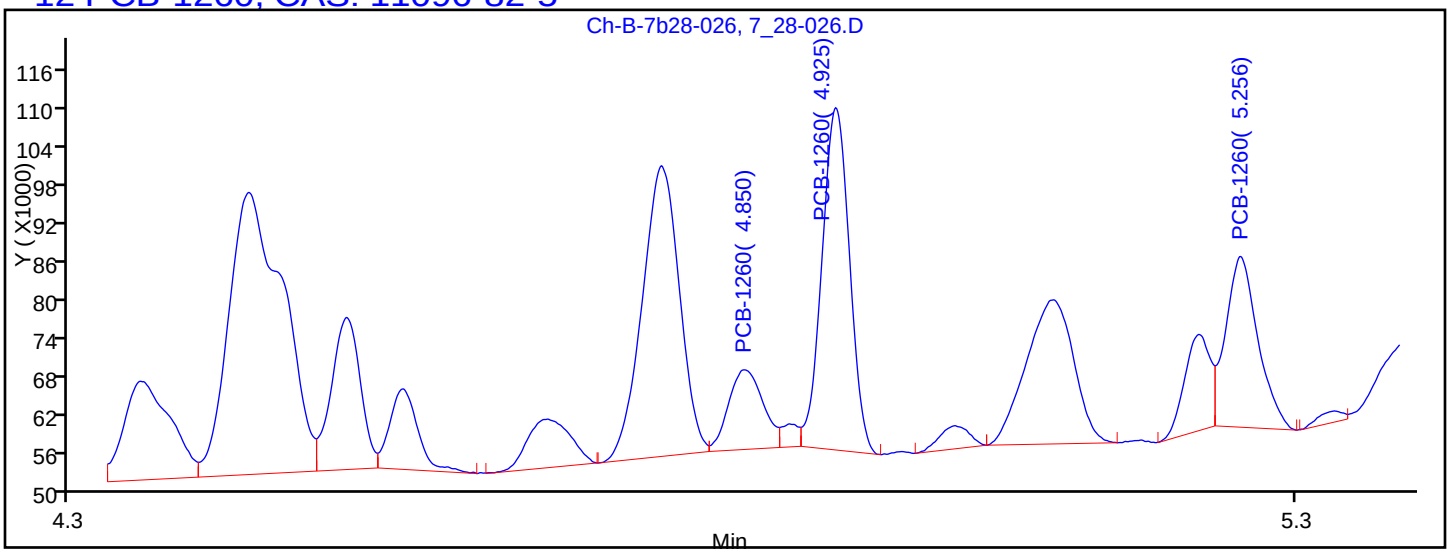
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

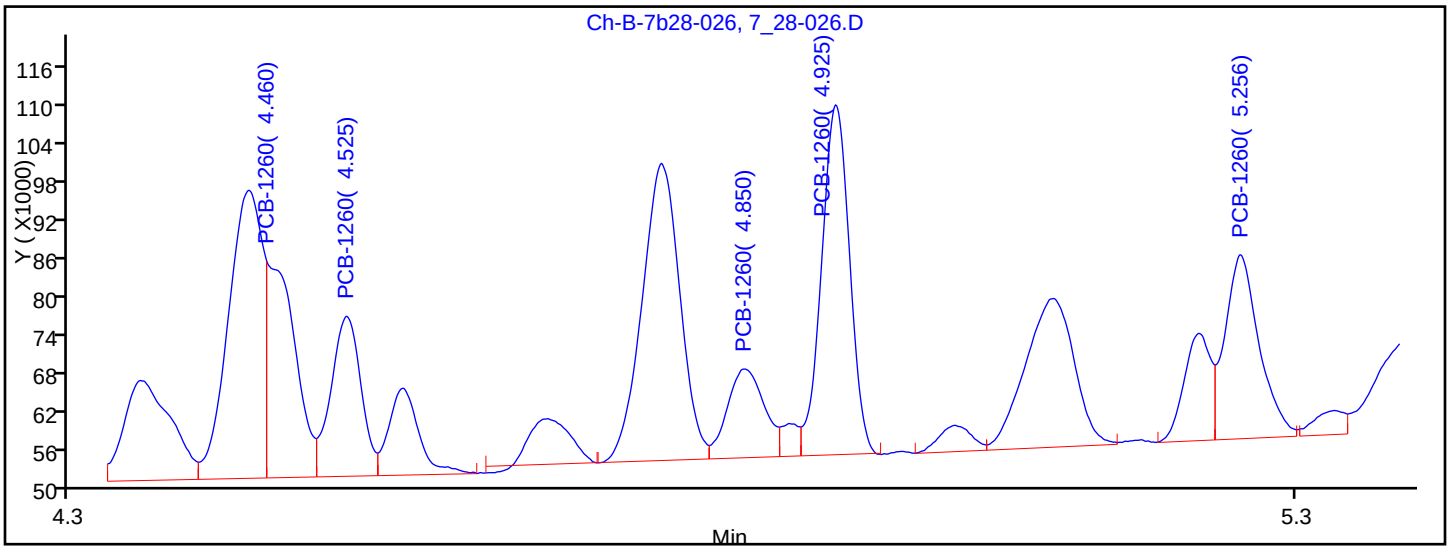
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.446	Response = 137214
4.783	Response = 96810
4.850	Response = 24679
4.925	Response = 84505
5.256	Response = 49098



Manual Integration Results

4.460	Response = 53484	M
4.525	Response = 42671	M
4.850	Response = 29246	M
4.925	Response = 87081	M
5.256	Response = 55612	M

Reviewer: owenj, 28-Mar-2017 15:40:45

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

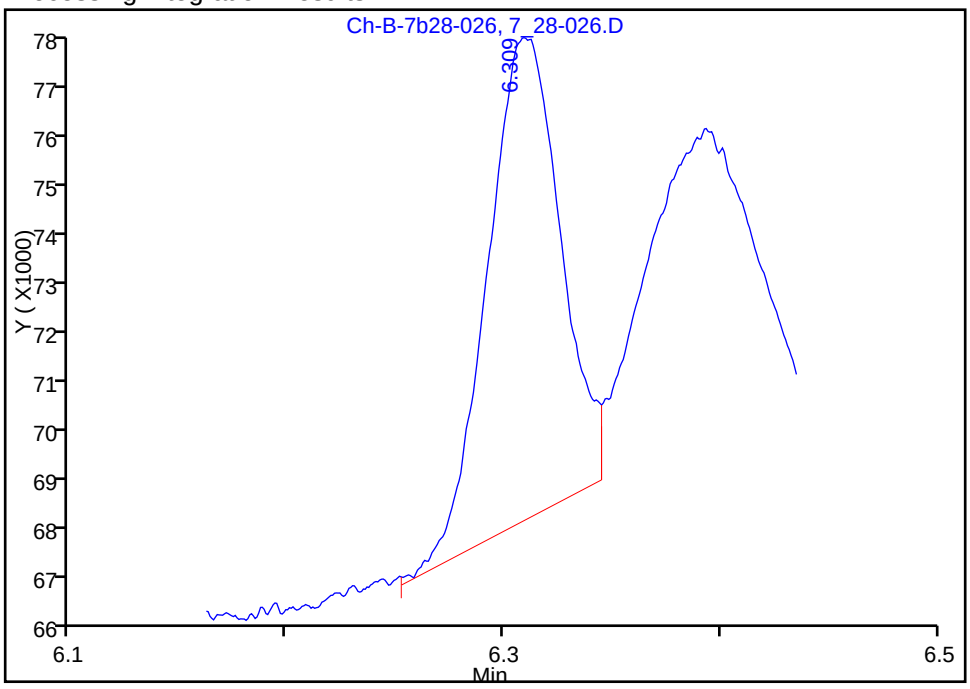
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-026.D
Injection Date: 28-Mar-2017 14:20:25 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

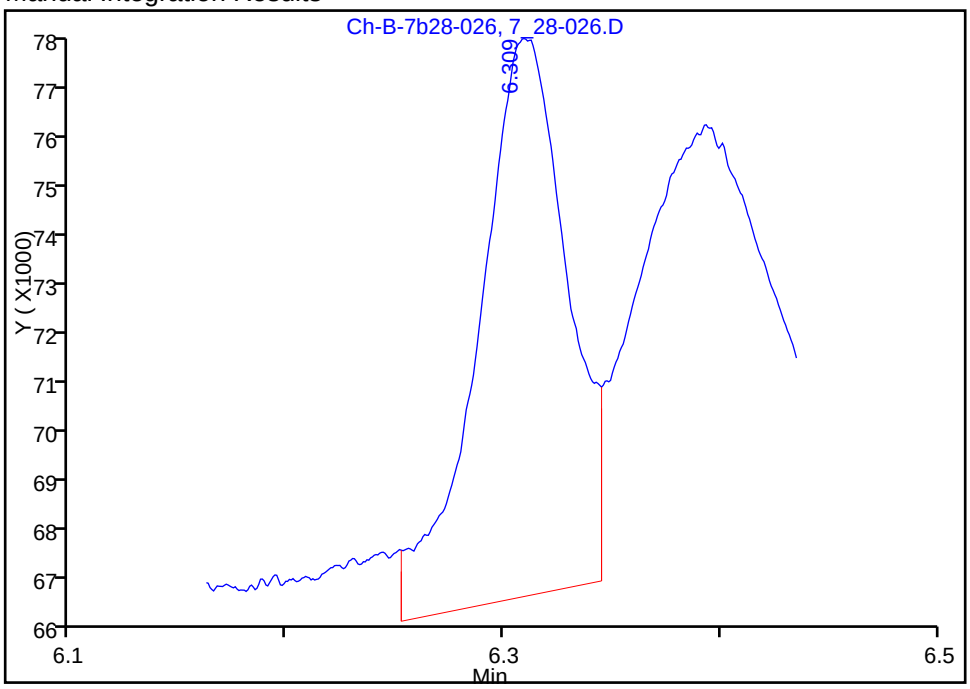
Processing Integration Results

RT: 6.31
Area: 21365
Amount: 0.000413
Amount Units: ng/uL



Manual Integration Results

RT: 6.31
Area: 31563
Amount: 0.000522
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 15:40:45
Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30042

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	0.0131	0.0076	0.0067			Lin1	0.0001	0.0068							0.9980		0.9900
PCB-1221 Peak 2	0.0177	0.0121	0.0108			Lin1	0.0001	0.0109							0.9980		0.9900
PCB-1221 Peak 3	0.0119	0.0075	0.0065			Lin1	0.0001	0.0066							0.9970		0.9900
PCB-1221 Peak 4	0.0392	0.0270	0.0241			Lin1	0.0003	0.0244							0.9980		0.9900
PCB-1254 Peak 1	0.0736	0.0524	0.0512			Lin1	0.0005	0.0510							1.0000		0.9900
PCB-1254 Peak 2	0.0477	0.0340	0.0336			Lin1	0.0003	0.0335							1.0000		0.9900
PCB-1254 Peak 3	0.0823	0.0618	0.0608			Lin1	0.0004	0.0607							1.0000		0.9900
PCB-1254 Peak 4	0.0829	0.0623	0.0618			Lin1	0.0004	0.0615							1.0000		0.9900
PCB-1254 Peak 5	0.0701	0.0525	0.0521			Lin1	0.0004	0.0519							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30042

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	7207	109077	382278			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	9757	173389	611505			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	6541	107292	367613			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	21621	386057	1369065			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	40540	749512	2903204			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	26297	486485	1907381			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Lin1	45353	884788	3451272			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Lin1	45692	891455	3503699			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	38628	751302	2953701			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 15:56:09 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:40 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:31:20

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14183474	0.5000	0.5000	
2	1.051	1.051	0.000	24751816	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.633	1.632	0.000	382278	2.00	1.96	a
1	2.229	2.230	-0.001	611505	2.00	1.96	a
1	2.307	2.307	0.000	367613	2.00	1.95	a
1	2.355	2.355	0.000	1369065	2.00	1.96	a
		Average of Peak Amounts =				1.96	
2	1.362	1.360	0.002	645413	2.00	1.94	a
2	1.865	1.863	0.002	1035449	2.00	1.96	a
2	1.963	1.963	0.000	628981	2.00	1.96	a
2	2.012	2.010	0.002	2021001	2.00	1.96	a
		Average of Peak Amounts =				1.95	
						RPD = 0.19	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	2903204	2.00	2.00	a
1	4.235	4.234	0.001	1907381	2.00	2.00	a
1	4.315	4.314	0.001	3451272	2.00	2.00	a
1	4.515	4.514	0.001	3503699	2.00	2.00	a
1	4.921	4.922	-0.001	2953701	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	3.523	3.522	0.001	3638829	2.00	2.00	
2	3.820	3.819	0.001	2685906	2.00	2.01	a
2	3.906	3.904	0.002	5834794	2.00	2.01	
2	4.040	4.040	0.000	5931372	2.00	2.01	
2	4.474	4.473	0.001	4993931	2.00	2.01	
		Average of Peak Amounts =				2.01	
						RPD = 0.42	

Reagents:

21-54w/IS@2.0_00006 Amount Added: 0.25 Units: mL

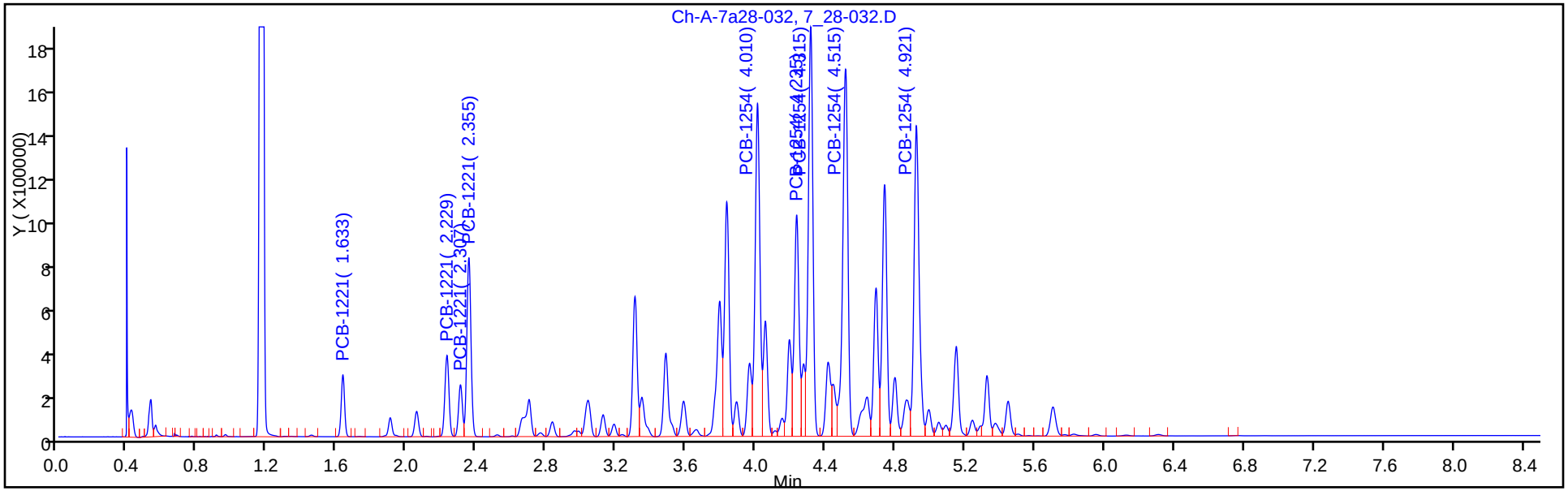
Report Date: 29-Mar-2017 10:54:40 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

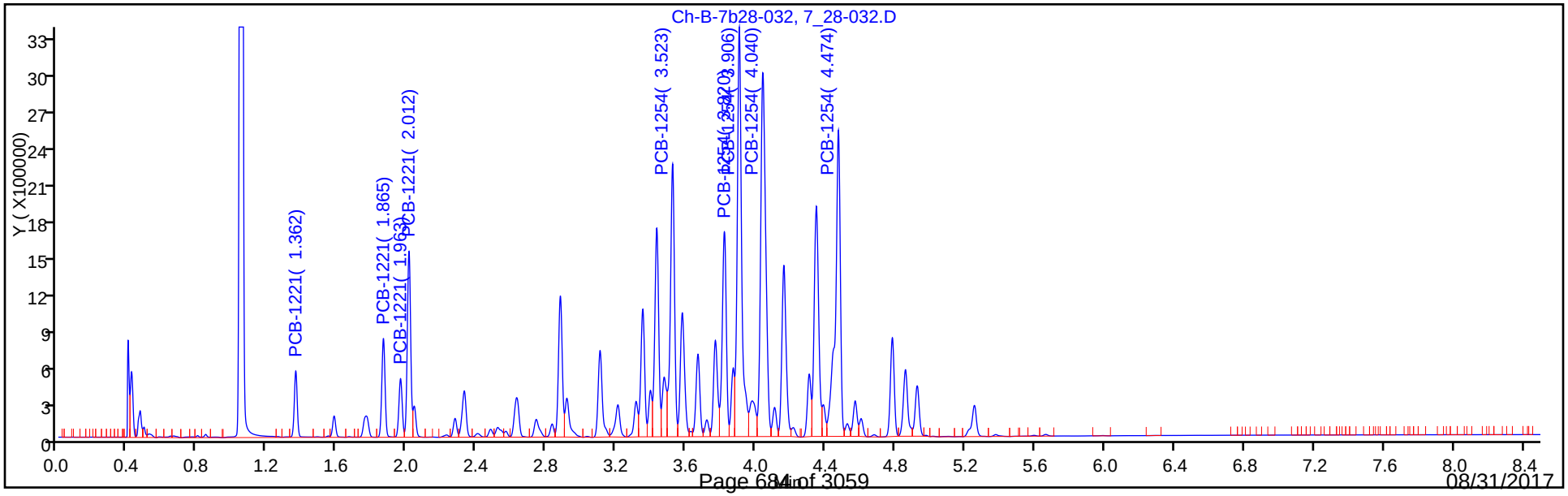
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D

Injection Date:	28-Mar-2017 15:56:09	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 16:12:05 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:40:52

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14308006	0.5000	0.5000	
2	1.050	1.051	-0.001	25593382	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	109077	0.5000	0.5405	M
1	2.229	2.230	-0.001	173389	0.5000	0.5411	
1	2.307	2.307	0.000	107292	0.5000	0.5516	
1	2.355	2.355	0.000	386057	0.5000	0.5389	
		Average of Peak Amounts =				0.5430	
2	1.361	1.360	0.001	201666	0.5000	0.5649	
2	1.864	1.863	0.001	301320	0.5000	0.5397	
2	1.963	1.963	0.000	183963	0.5000	0.5430	
2	2.011	2.010	0.001	585123	0.5000	0.5400	
		Average of Peak Amounts =				0.5469	
						RPD = 0.71	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	749512	0.5000	0.5041	
1	4.234	4.234	0.000	486485	0.5000	0.4995	
1	4.314	4.314	0.000	884788	0.5000	0.5023	
1	4.514	4.514	0.000	891455	0.5000	0.4994	
1	4.922	4.922	0.000	751302	0.5000	0.4992	
		Average of Peak Amounts =				0.5009	
2	3.523	3.522	0.000	952420	0.5000	0.5005	
2	3.820	3.819	0.001	690073	0.5000	0.4940	
2	3.905	3.904	0.001	1485783	0.5000	0.4911	
2	4.041	4.040	0.001	1504462	0.5000	0.4897	
2	4.474	4.473	0.001	1255166	0.5000	0.4856	
		Average of Peak Amounts =				0.4922	
						RPD = 1.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00008 Amount Added: 0.25 Units: mL

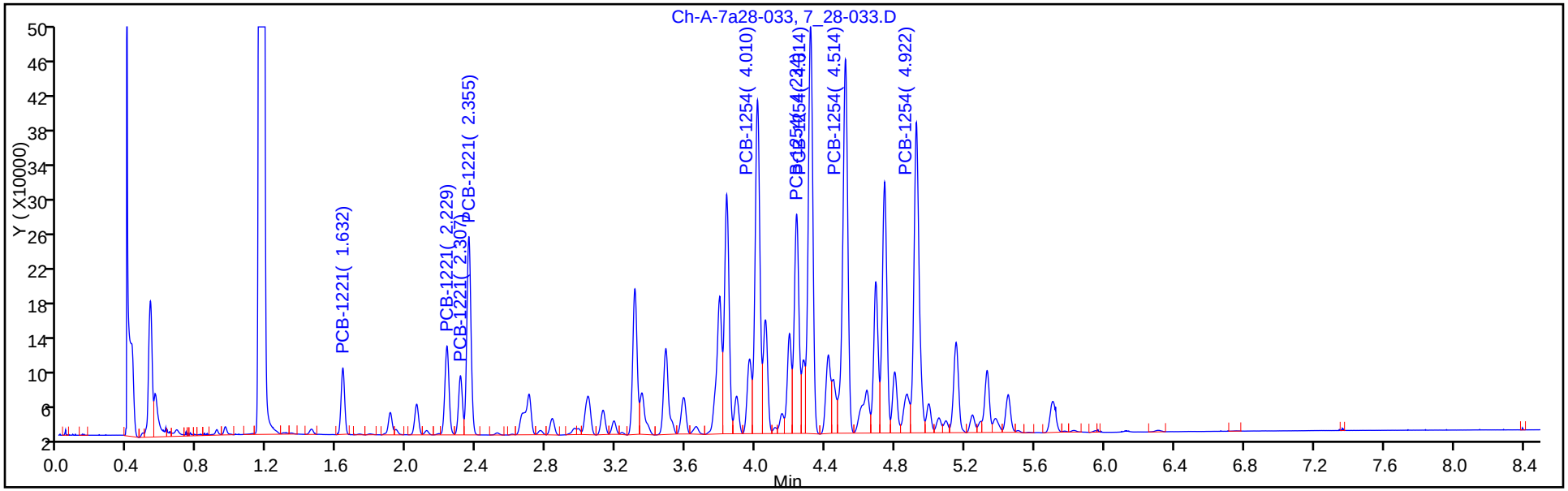
Report Date: 29-Mar-2017 10:54:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

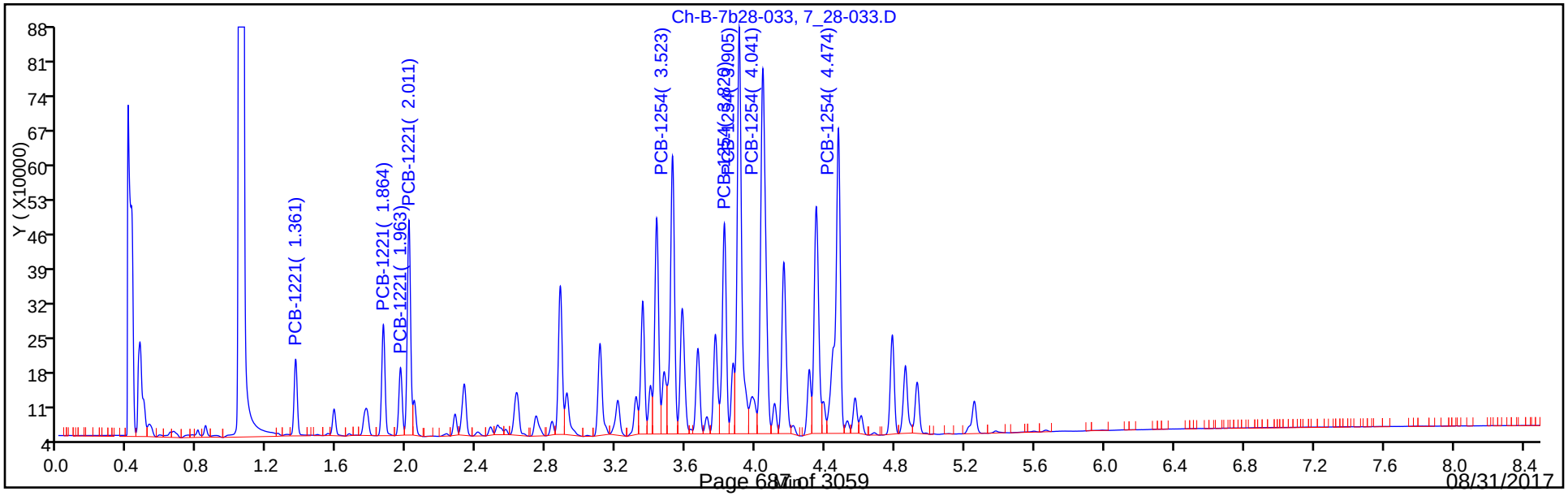
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D

Injection Date:	28-Mar-2017 16:12:05	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:54:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D

Injection Date: 28-Mar-2017 16:12:05 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

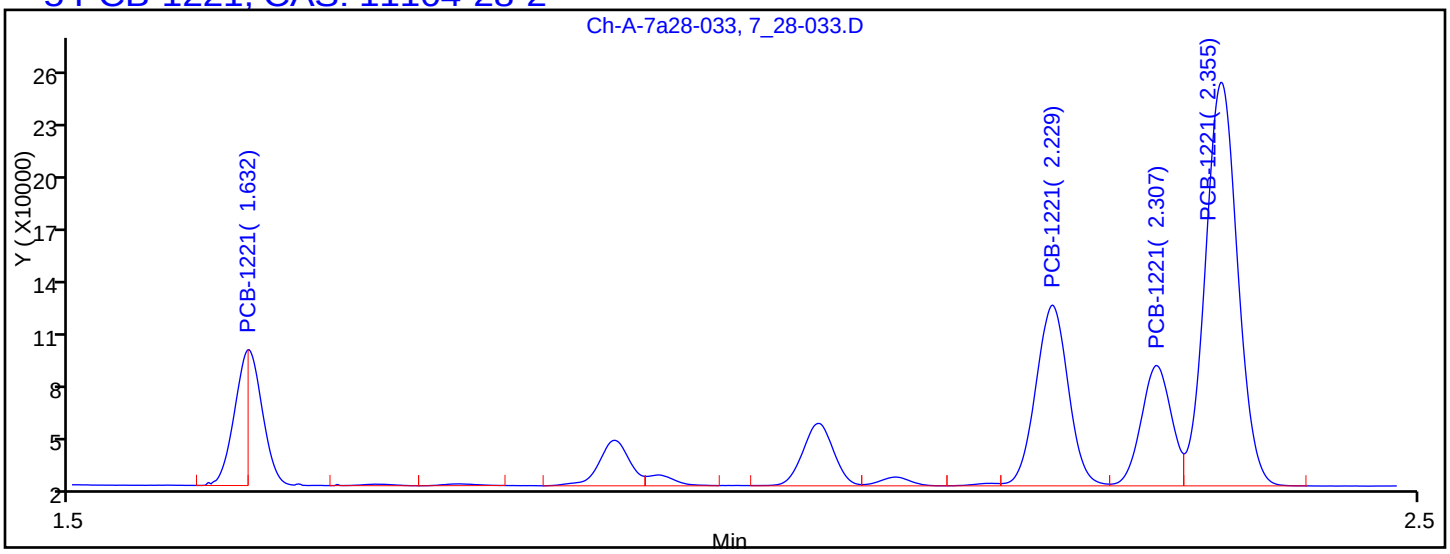
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

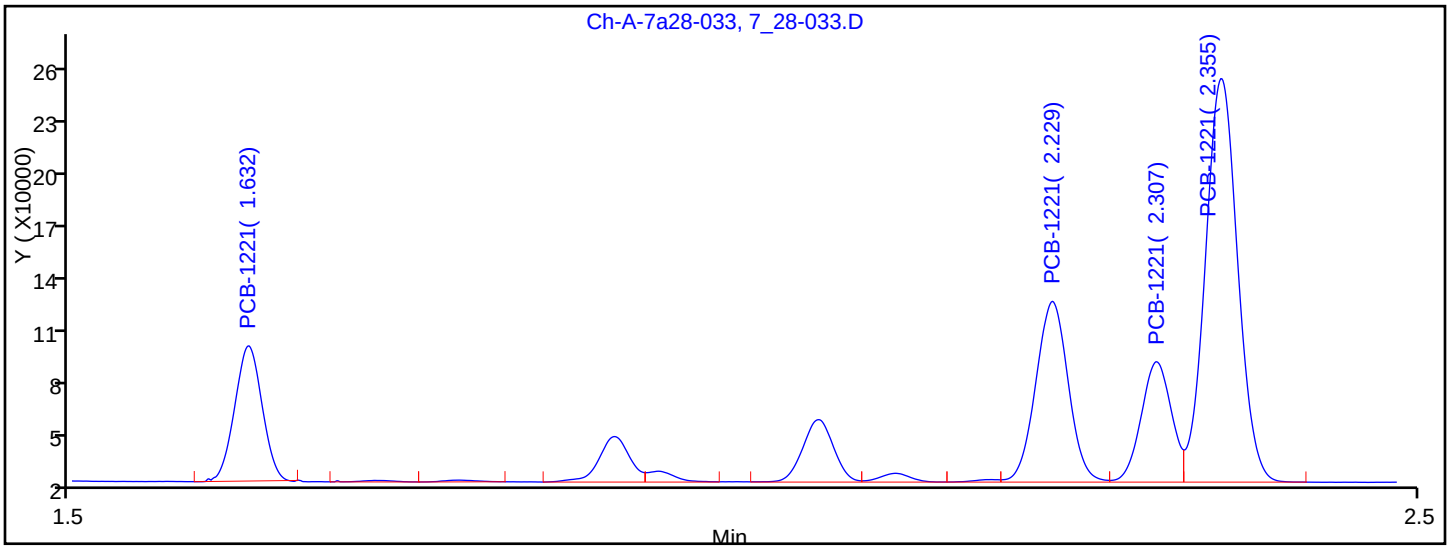
Column: Detector Ch-A-7A136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.632	Response = 53702
2.229	Response = 173389
2.307	Response = 107292
2.355	Response = 386057



Manual Integration Results

1.632	Response = 109077	M
2.229	Response = 173389	
2.307	Response = 107292	
2.355	Response = 386057	

Reviewer: owenj, 28-Mar-2017 16:34:08

Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 16:28:08 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:52:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.167	1.167	0.000	13775491	0.5000	0.5000	M
2	1.048	1.048	0.000	25230848	0.5000	0.5000	M
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	7207	0.0200	0.0188	M
1	2.230	2.230	0.000	9757	0.0200	0.0188	M
1	2.307	2.307	0.000	6541	0.0200	0.0184	
1	2.355	2.355	0.000	21621	0.0200	0.0188	
		Average of Peak Amounts =				0.0187	
2	1.360	1.360	0.000	15870	0.0200	0.0180	M
2	1.863	1.863	0.000	19169	0.0200	0.0188	M
2	1.963	1.963	0.000	11012	0.0200	0.0187	M
2	2.010	2.010	0.000	32777	0.0200	0.0188	M
		Average of Peak Amounts =				0.0186	
						RPD = 0.63	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							M
1	4.011	4.011	0.000	40540	0.0200	0.0199	M
1	4.234	4.234	0.000	26297	0.0200	0.0200	M
1	4.314	4.314	0.000	45353	0.0200	0.0199	M
1	4.514	4.514	0.000	45692	0.0200	0.0200	M
1	4.922	4.922	0.000	38628	0.0200	0.0200	M
		Average of Peak Amounts =				0.0200	
2	3.522	3.522	0.000	50766	0.0200	0.0200	
2	3.819	3.819	0.000	35490	0.0200	0.0202	
2	3.904	3.904	0.000	74054	0.0200	0.0203	
2	4.040	4.040	0.000	74452	0.0200	0.0203	
2	4.473	4.473	0.000	64659	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 1.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00005 Amount Added: 0.25 Units: mL

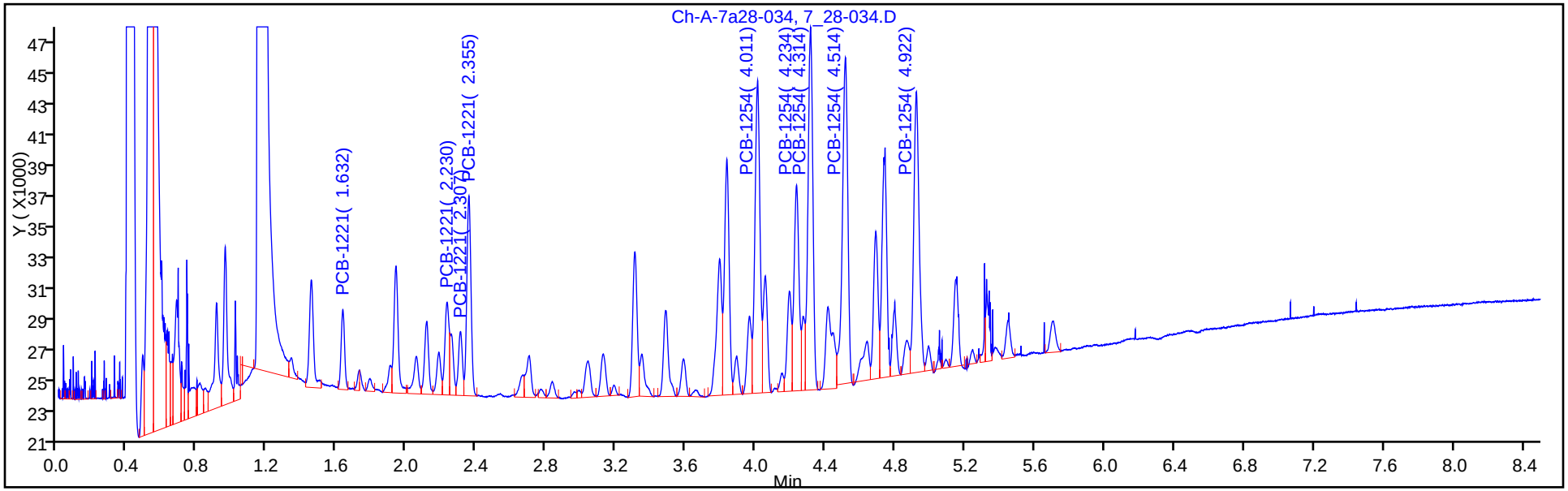
Report Date: 29-Mar-2017 10:54:48 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

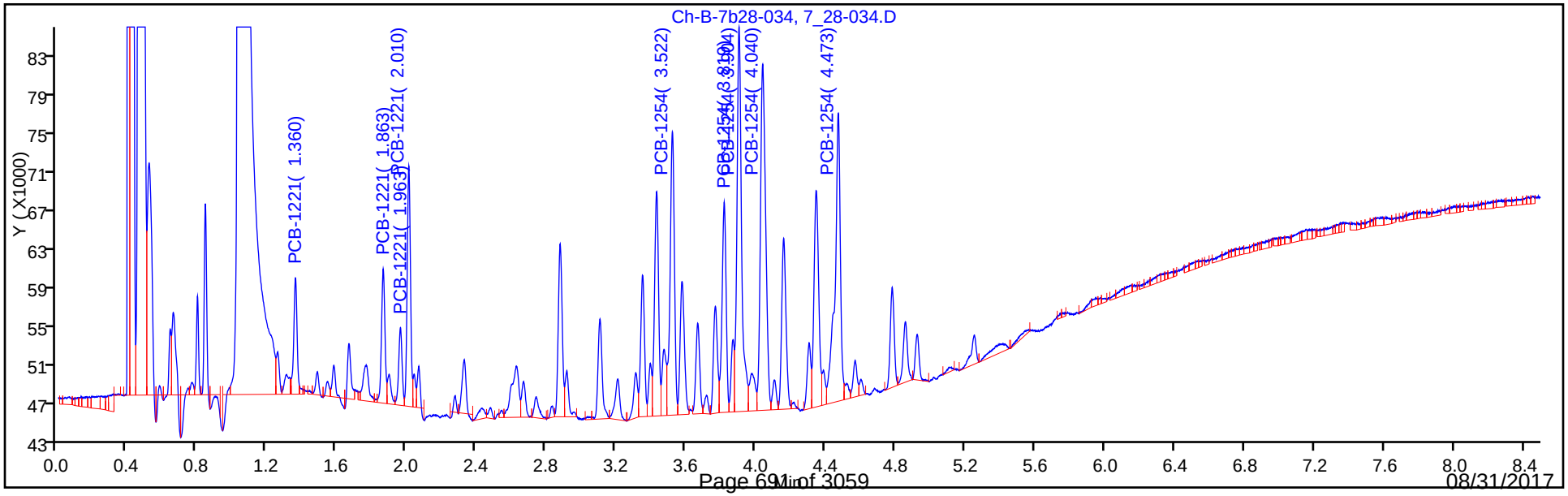
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date:	28-Mar-2017 16:28:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

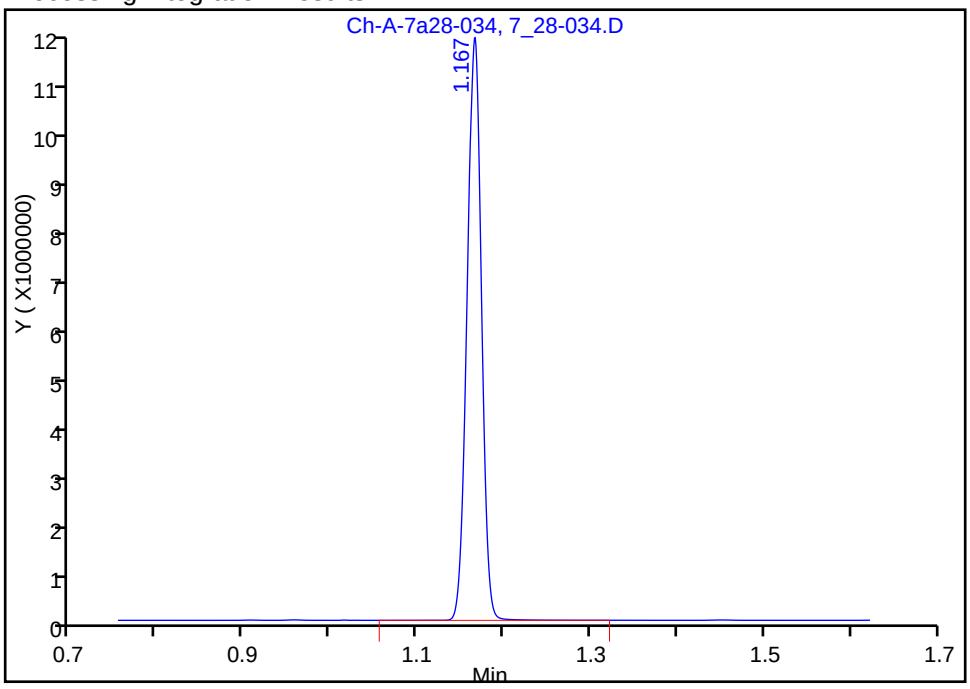
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

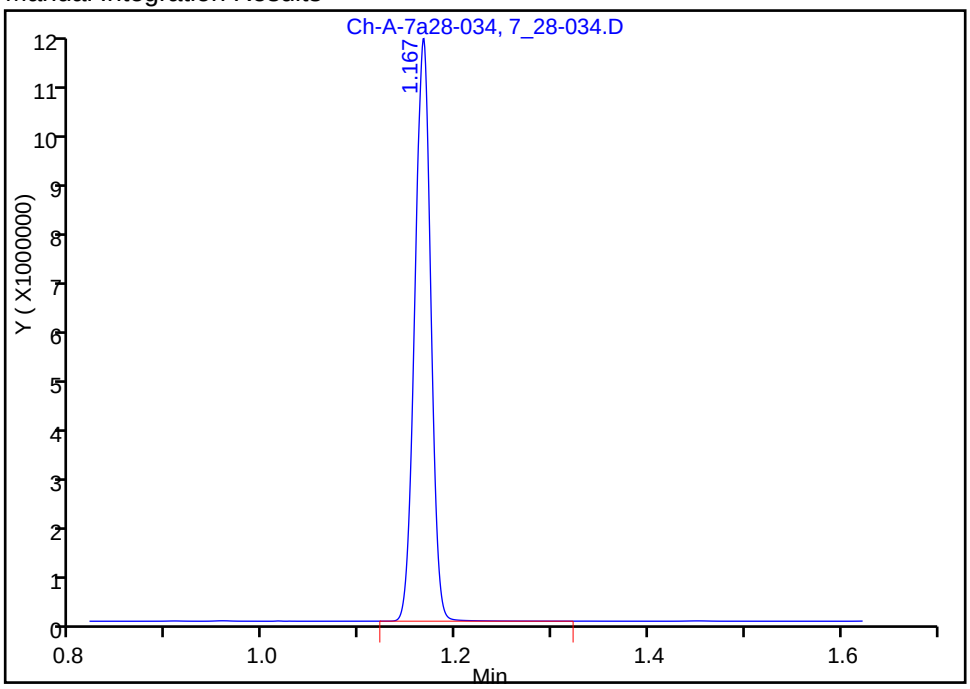
Processing Integration Results

RT: 1.17
Area: 13791629
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.17
Area: 13775491
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 16:45:32
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

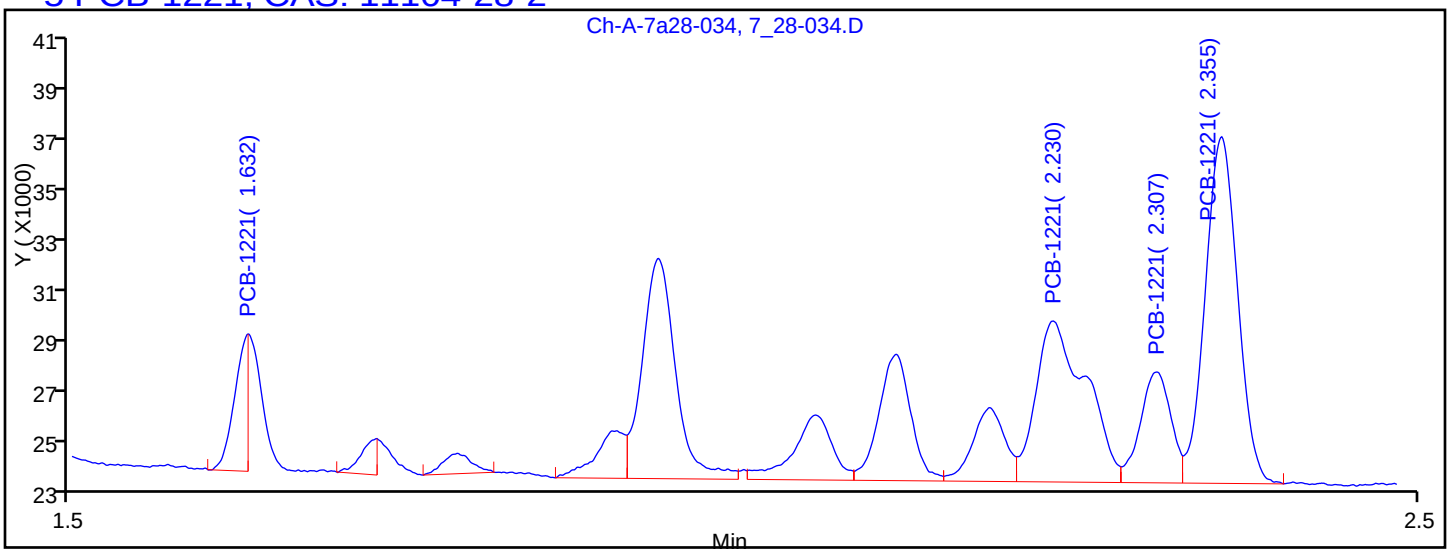
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

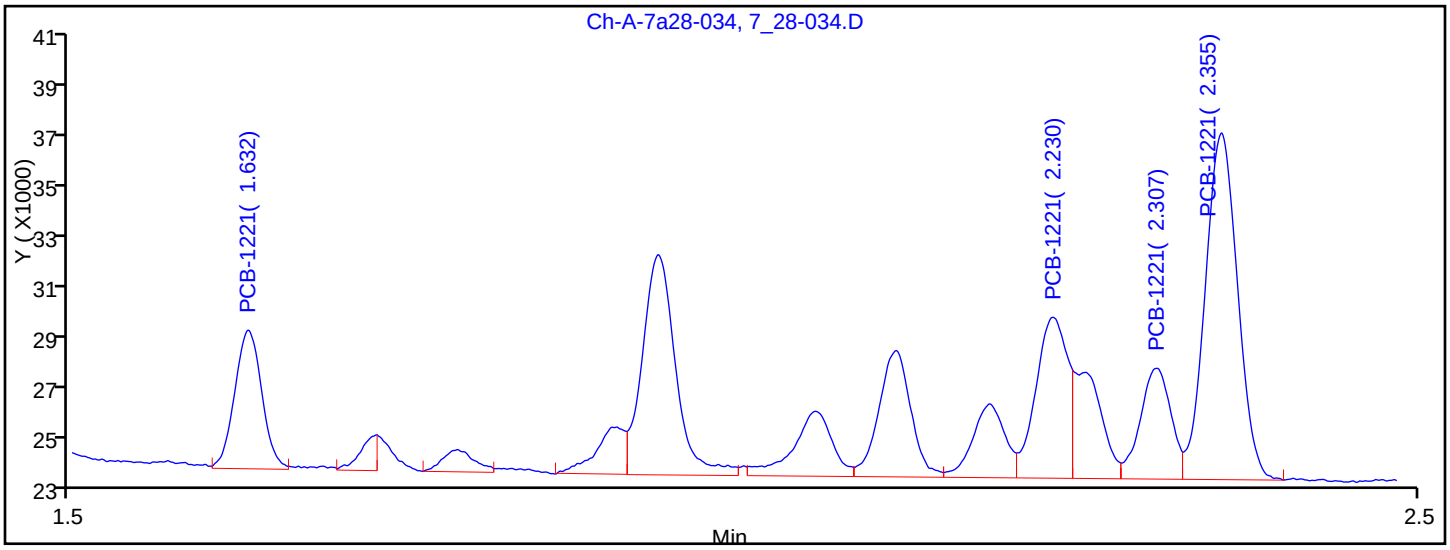
Column: Detector Ch-A-7A136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.632	Response = 3418	
2.230	Response = 15493	
2.307	Response = 6541	
2.355	Response = 21621	



Manual Integration Results

1.632	Response = 7207	M
2.230	Response = 9757	M
2.307	Response = 6541	
2.355	Response = 21621	

Reviewer: owenj, 28-Mar-2017 16:44:10

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

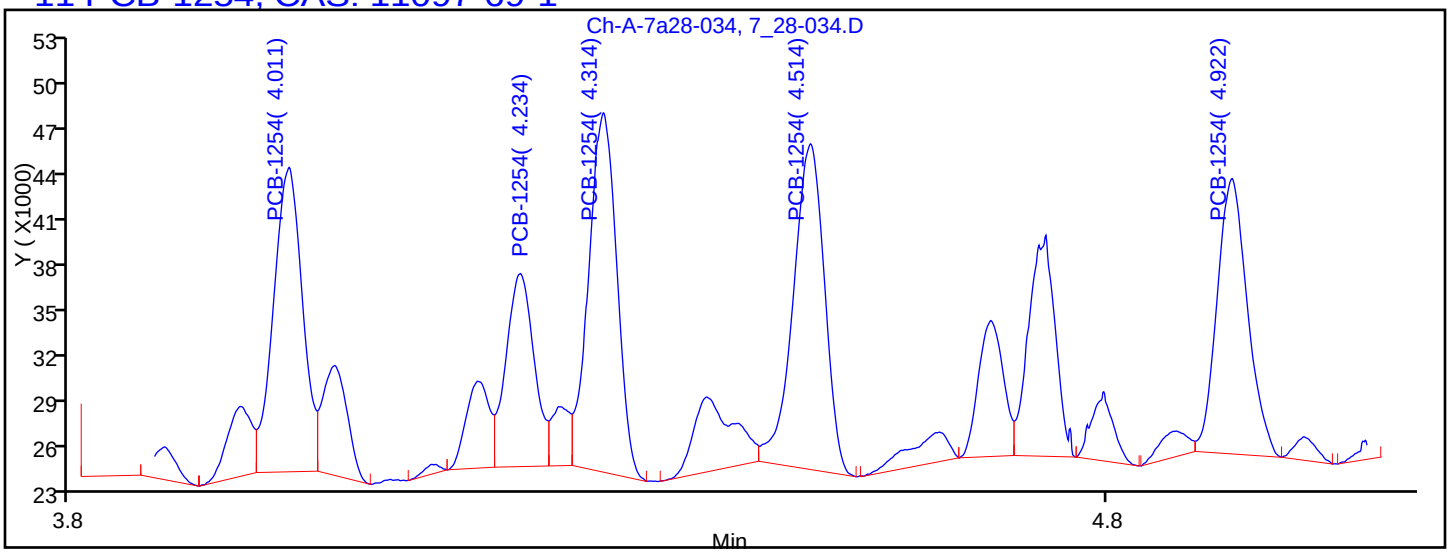
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

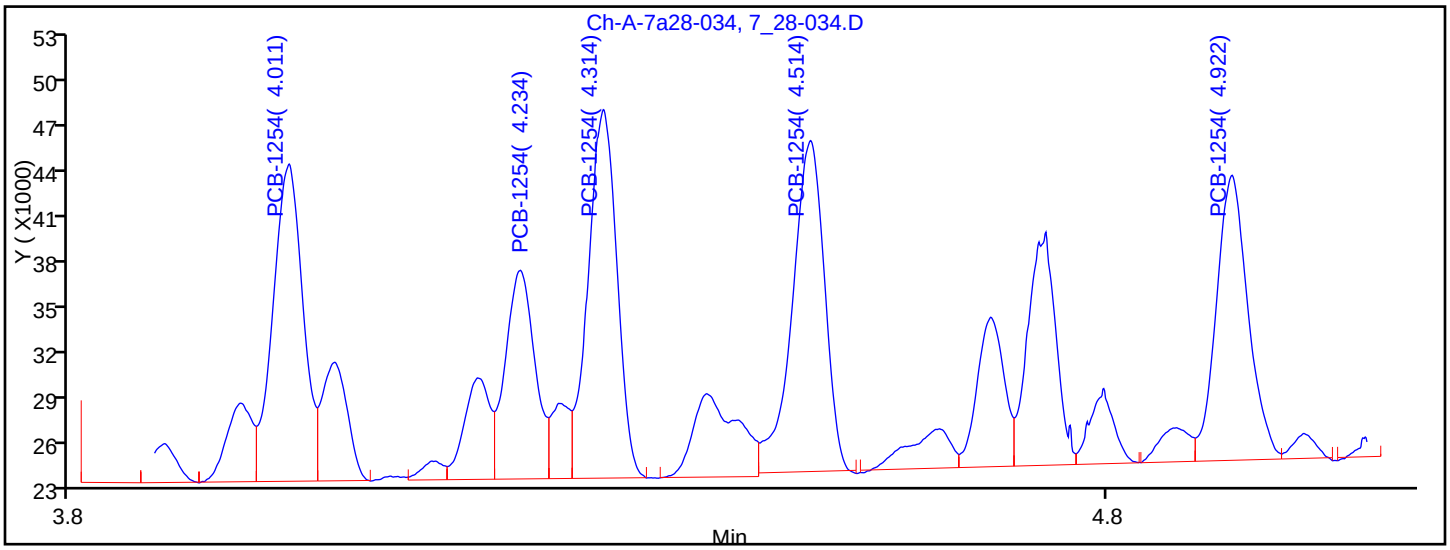
Column: Detector Ch-A-7A136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

4.011	Response = 37674
4.234	Response = 23171
4.314	Response = 43201
4.514	Response = 43582
4.922	Response = 35756



Manual Integration Results

4.011	Response = 40540	M
4.234	Response = 26297	M
4.314	Response = 45353	M
4.514	Response = 45692	M
4.922	Response = 38628	M

Reviewer: owenj, 28-Mar-2017 16:44:01

Audit Action: Assigned New Baseline Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1221 Peak 1	0.0157	0.0079	0.0065			Lin1	0.0002	0.0066							0.9960		0.9900
PCB-1221 Peak 2	0.0190	0.0118	0.0105			Lin1	0.0002	0.0106							0.9980		0.9900
PCB-1221 Peak 3	0.0109	0.0072	0.0064			Lin1	0.0001	0.0064							0.9980		0.9900
PCB-1221 Peak 4	0.0325	0.0229	0.0204			Lin1	0.0003	0.0207							0.9980		0.9900
PCB-1254 Peak 1	0.0503	0.0372	0.0368			Lin1	0.0003	0.0366							1.0000		0.9900
PCB-1254 Peak 2	0.0352	0.0270	0.0271			Lin1	0.0002	0.0270							1.0000		0.9900
PCB-1254 Peak 3	0.0734	0.0581	0.0589			Lin1	0.0003	0.0585							1.0000		0.9900
PCB-1254 Peak 4	0.0738	0.0588	0.0599			Lin1	0.0003	0.0595							1.0000		0.9900
PCB-1254 Peak 5	0.0641	0.0490	0.0504			Lin1	0.0003	0.0500							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 15:56 Calibration End Date: 03/28/2017 16:28 Calibration ID: 30043

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/21	7_28-034.D
Level 2	IC 480-349118/20	7_28-033.D
Level 3	IC 480-349118/19	7_28-032.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	BNB	Lin1	15870	201666	645413			0.0200	0.500	2.00		
PCB-1221 Peak 2	BNB	Lin1	19169	301320	1035449			0.0200	0.500	2.00		
PCB-1221 Peak 3	BNB	Lin1	11012	183963	628981			0.0200	0.500	2.00		
PCB-1221 Peak 4	BNB	Lin1	32777	585123	2021001			0.0200	0.500	2.00		
PCB-1254 Peak 1	BNB	Lin1	50766	952420	3638829			0.0200	0.500	2.00		
PCB-1254 Peak 2	BNB	Lin1	35490	690073	2685906			0.0200	0.500	2.00		
PCB-1254 Peak 3	BNB	Lin1	74054	1485783	5834794			0.0200	0.500	2.00		
PCB-1254 Peak 4	BNB	Lin1	74452	1504462	5931372			0.0200	0.500	2.00		
PCB-1254 Peak 5	BNB	Lin1	64659	1255166	4993931			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 15:56:09 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:40 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:31:20

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14183474	0.5000	0.5000	
2	1.051	1.051	0.000	24751816	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.633	1.632	0.000	382278	2.00	1.96	a
1	2.229	2.230	-0.001	611505	2.00	1.96	a
1	2.307	2.307	0.000	367613	2.00	1.95	a
1	2.355	2.355	0.000	1369065	2.00	1.96	a
		Average of Peak Amounts =				1.96	
2	1.362	1.360	0.002	645413	2.00	1.94	a
2	1.865	1.863	0.002	1035449	2.00	1.96	a
2	1.963	1.963	0.000	628981	2.00	1.96	a
2	2.012	2.010	0.002	2021001	2.00	1.96	a
		Average of Peak Amounts =				1.95	
						RPD = 0.19	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	2903204	2.00	2.00	a
1	4.235	4.234	0.001	1907381	2.00	2.00	a
1	4.315	4.314	0.001	3451272	2.00	2.00	a
1	4.515	4.514	0.001	3503699	2.00	2.00	a
1	4.921	4.922	-0.001	2953701	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	3.523	3.522	0.001	3638829	2.00	2.00	
2	3.820	3.819	0.001	2685906	2.00	2.01	a
2	3.906	3.904	0.002	5834794	2.00	2.01	
2	4.040	4.040	0.000	5931372	2.00	2.01	
2	4.474	4.473	0.001	4993931	2.00	2.01	
		Average of Peak Amounts =				2.01	
						RPD = 0.42	

Reagents:

21-54w/IS@2.0_00006 Amount Added: 0.25 Units: mL

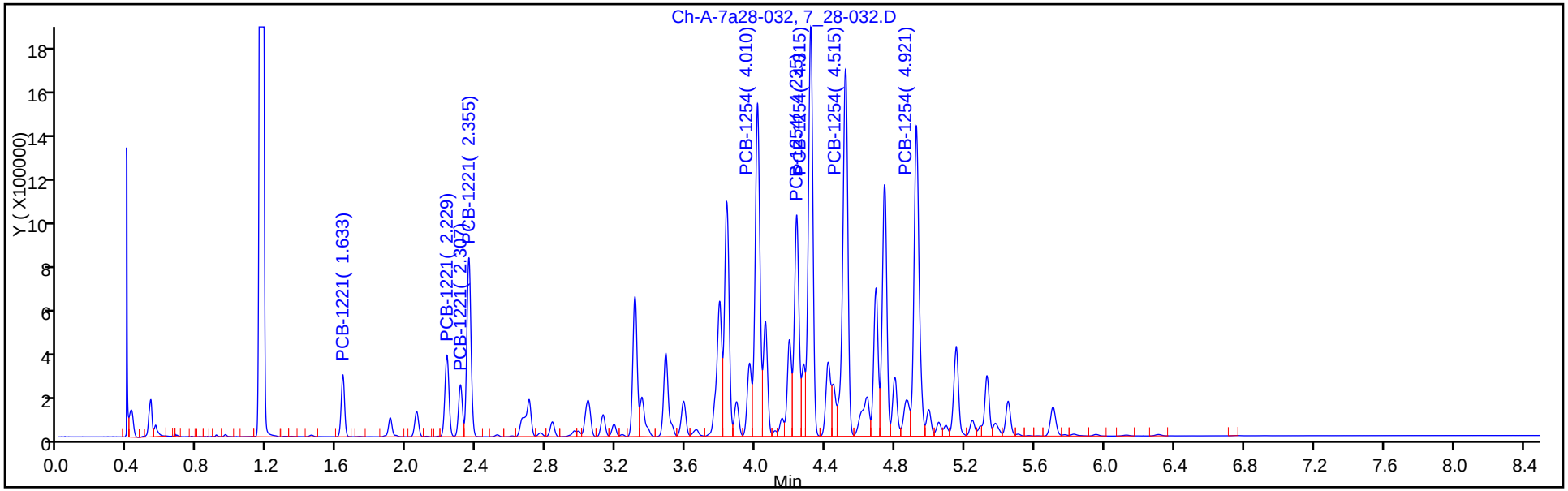
Report Date: 29-Mar-2017 10:54:41 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

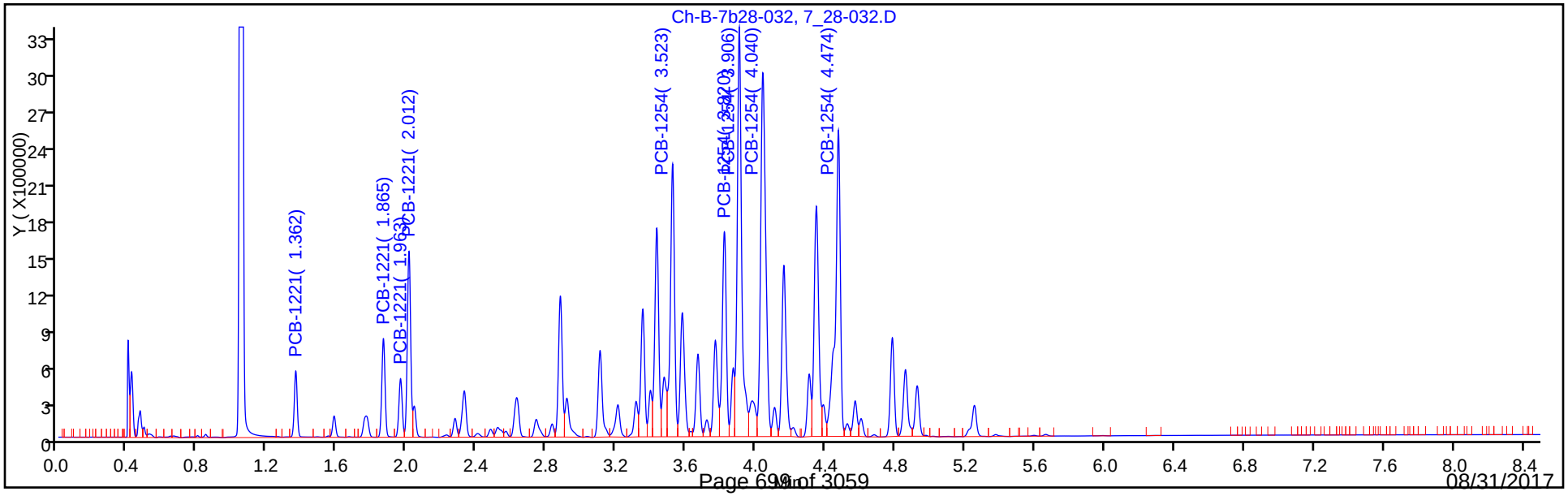
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-032.D

Injection Date:	28-Mar-2017 15:56:09	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	19
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 16:12:05 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:40:52

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.168	-0.001	14308006	0.5000	0.5000	
2	1.050	1.051	-0.001	25593382	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	109077	0.5000	0.5405	M
1	2.229	2.230	-0.001	173389	0.5000	0.5411	
1	2.307	2.307	0.000	107292	0.5000	0.5516	
1	2.355	2.355	0.000	386057	0.5000	0.5389	
		Average of Peak Amounts =				0.5430	
2	1.361	1.360	0.001	201666	0.5000	0.5649	
2	1.864	1.863	0.001	301320	0.5000	0.5397	
2	1.963	1.963	0.000	183963	0.5000	0.5430	
2	2.011	2.010	0.001	585123	0.5000	0.5400	
		Average of Peak Amounts =				0.5469	
						RPD = 0.71	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	4.010	4.011	-0.001	749512	0.5000	0.5041	
1	4.234	4.234	0.000	486485	0.5000	0.4995	
1	4.314	4.314	0.000	884788	0.5000	0.5023	
1	4.514	4.514	0.000	891455	0.5000	0.4994	
1	4.922	4.922	0.000	751302	0.5000	0.4992	
		Average of Peak Amounts =				0.5009	
2	3.523	3.522	0.000	952420	0.5000	0.5005	
2	3.820	3.819	0.001	690073	0.5000	0.4940	
2	3.905	3.904	0.001	1485783	0.5000	0.4911	
2	4.041	4.040	0.001	1504462	0.5000	0.4897	
2	4.474	4.473	0.001	1255166	0.5000	0.4856	
		Average of Peak Amounts =				0.4922	
						RPD = 1.76	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@0.5_00008 Amount Added: 0.25 Units: mL

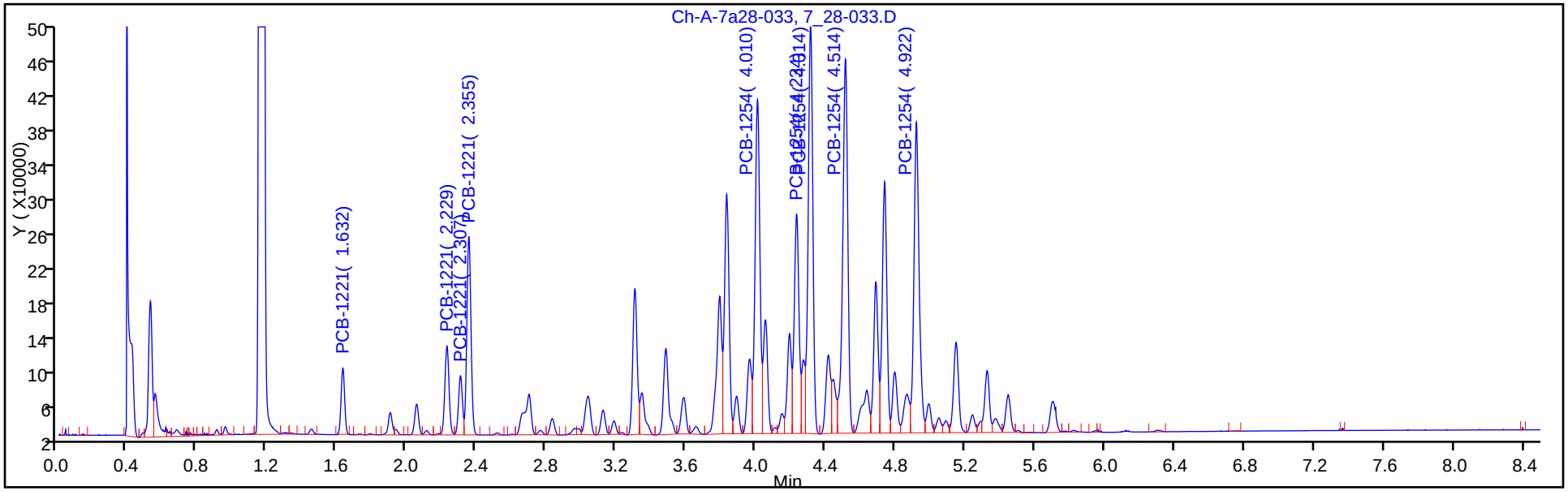
Report Date: 29-Mar-2017 10:54:45 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

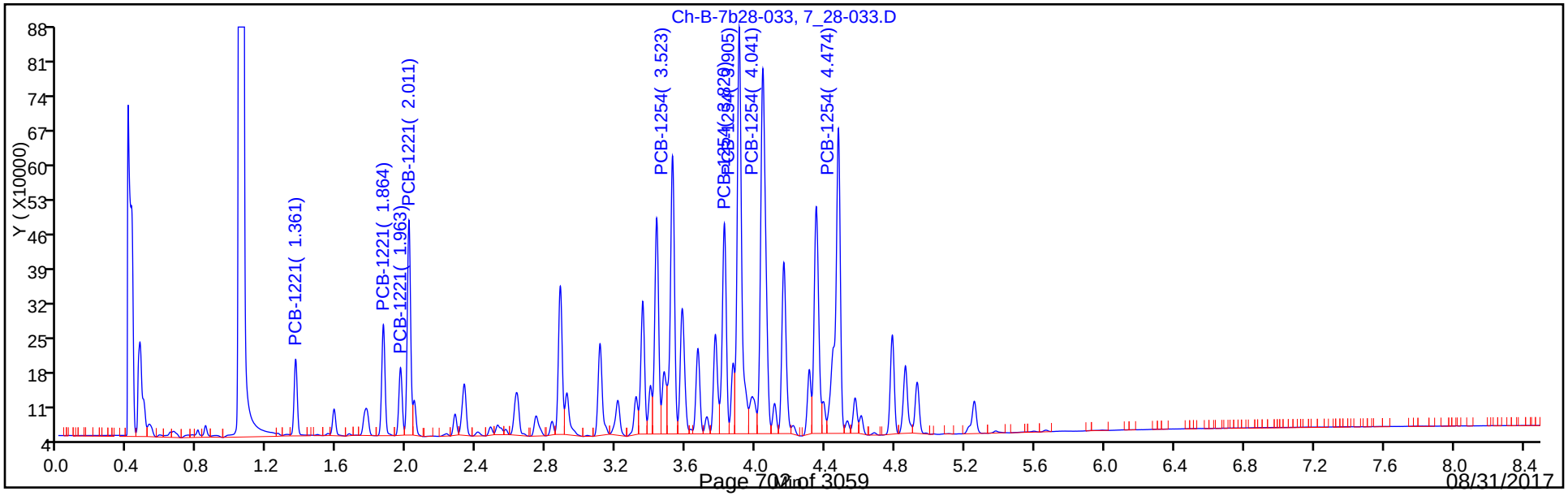
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-033.D

Injection Date:	28-Mar-2017 16:12:05	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 16:28:08 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:48 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 16:52:11

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							M
1	1.167	1.167	0.000	13775491	0.5000	0.5000	M
2	1.048	1.048	0.000	25230848	0.5000	0.5000	M
						RPD = 0.00	
5 PCB-1221							M
1	1.632	1.632	0.000	7207	0.0200	0.0188	M
1	2.230	2.230	0.000	9757	0.0200	0.0188	M
1	2.307	2.307	0.000	6541	0.0200	0.0184	
1	2.355	2.355	0.000	21621	0.0200	0.0188	
		Average of Peak Amounts =				0.0187	
2	1.360	1.360	0.000	15870	0.0200	0.0180	M
2	1.863	1.863	0.000	19169	0.0200	0.0188	M
2	1.963	1.963	0.000	11012	0.0200	0.0187	M
2	2.010	2.010	0.000	32777	0.0200	0.0188	M
		Average of Peak Amounts =				0.0186	
						RPD = 0.63	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							M
1	4.011	4.011	0.000	40540	0.0200	0.0199	M
1	4.234	4.234	0.000	26297	0.0200	0.0200	M
1	4.314	4.314	0.000	45353	0.0200	0.0199	M
1	4.514	4.514	0.000	45692	0.0200	0.0200	M
1	4.922	4.922	0.000	38628	0.0200	0.0200	M
		Average of Peak Amounts =				0.0200	
2	3.522	3.522	0.000	50766	0.0200	0.0200	
2	3.819	3.819	0.000	35490	0.0200	0.0202	
2	3.904	3.904	0.000	74054	0.0200	0.0203	
2	4.040	4.040	0.000	74452	0.0200	0.0203	
2	4.473	4.473	0.000	64659	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 1.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

21-54w/IS@.02_00005 Amount Added: 0.25 Units: mL

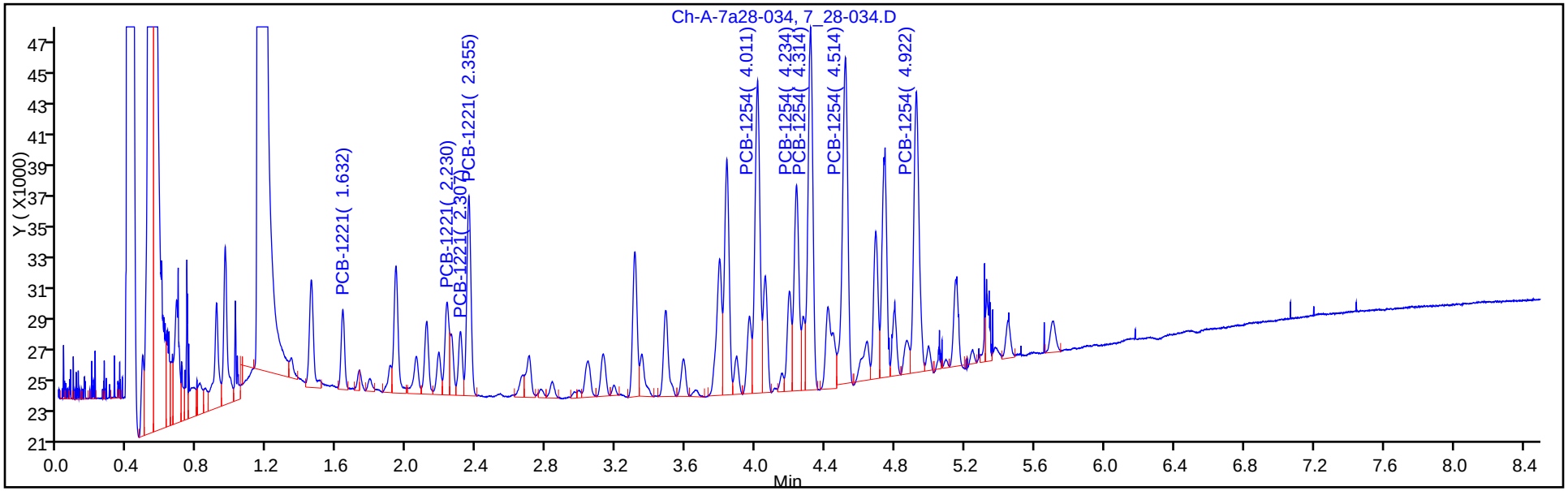
Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

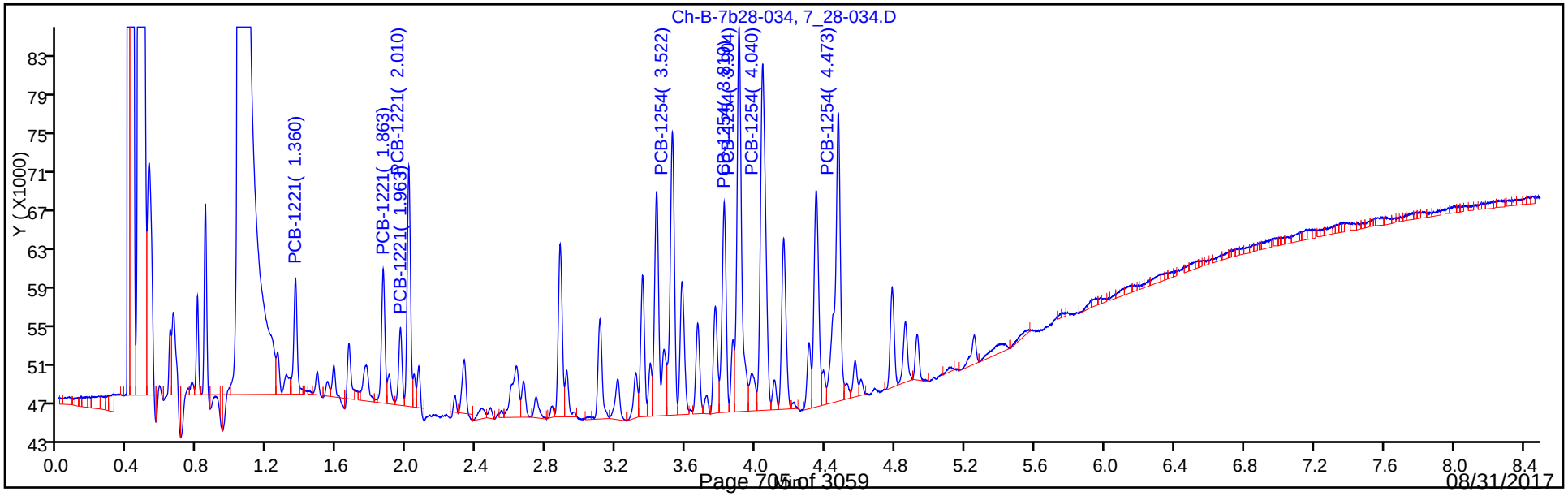
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date:	28-Mar-2017 16:28:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

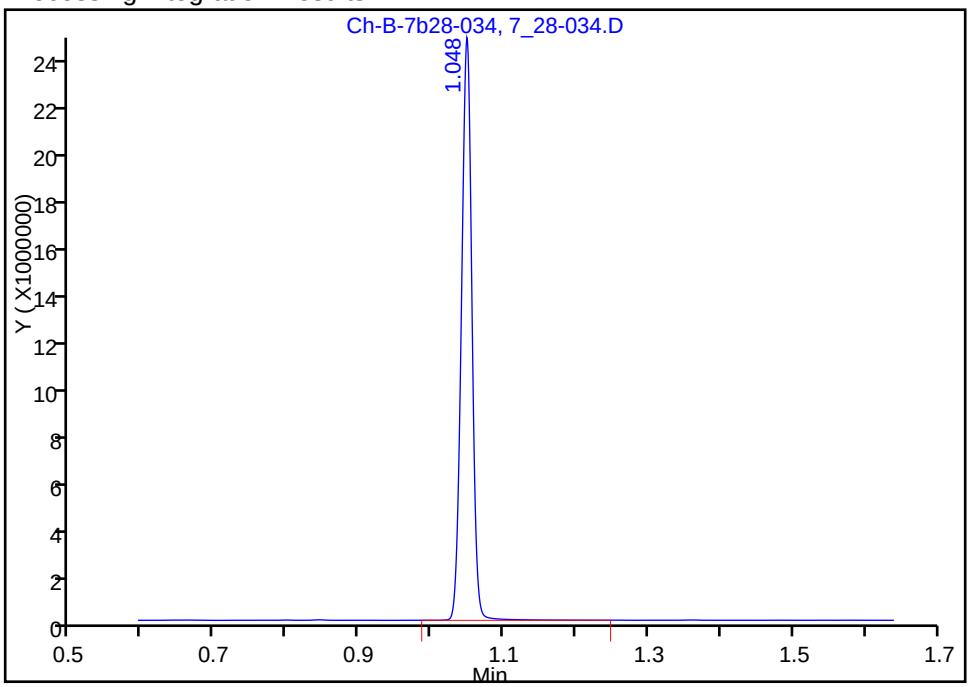
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D
Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7
Lims ID: IC 1
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-B-7b136

* 1 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

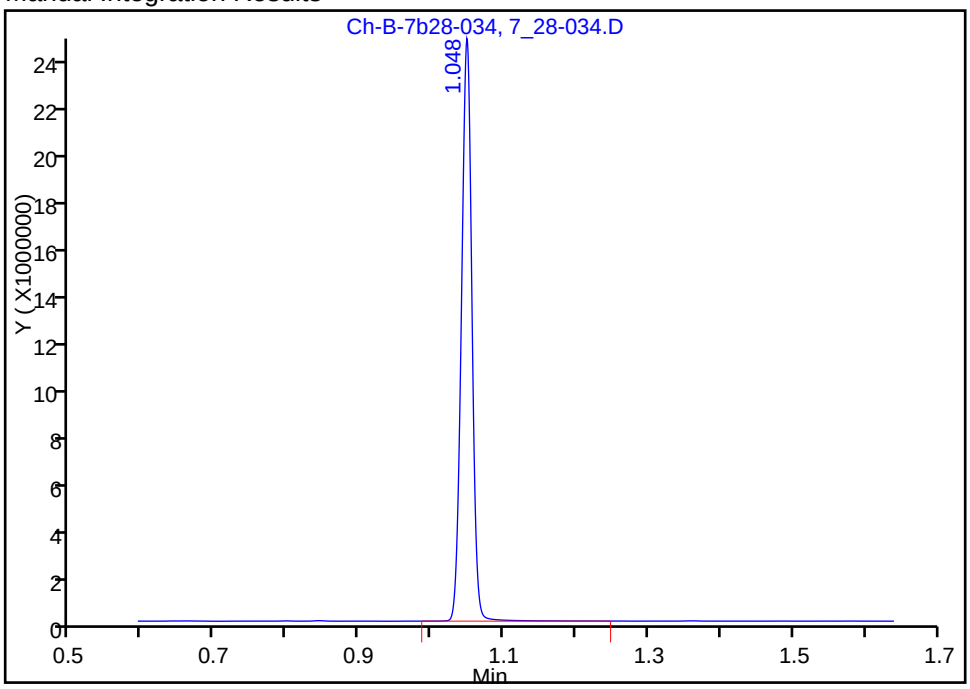
Processing Integration Results

RT: 1.05
Area: 25271636
Amount: 0.500000
Amount Units: ng/uL



Manual Integration Results

RT: 1.05
Area: 25230848
Amount: 0.500000
Amount Units: ng/uL



Reviewer: owenj, 28-Mar-2017 16:45:15
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

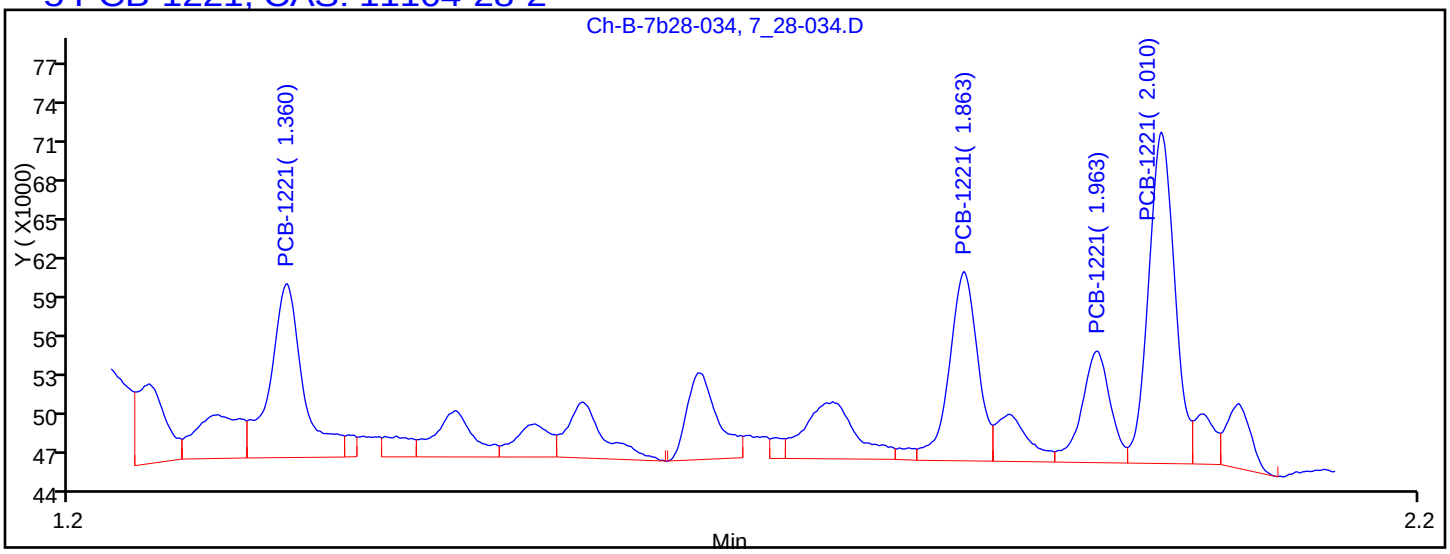
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

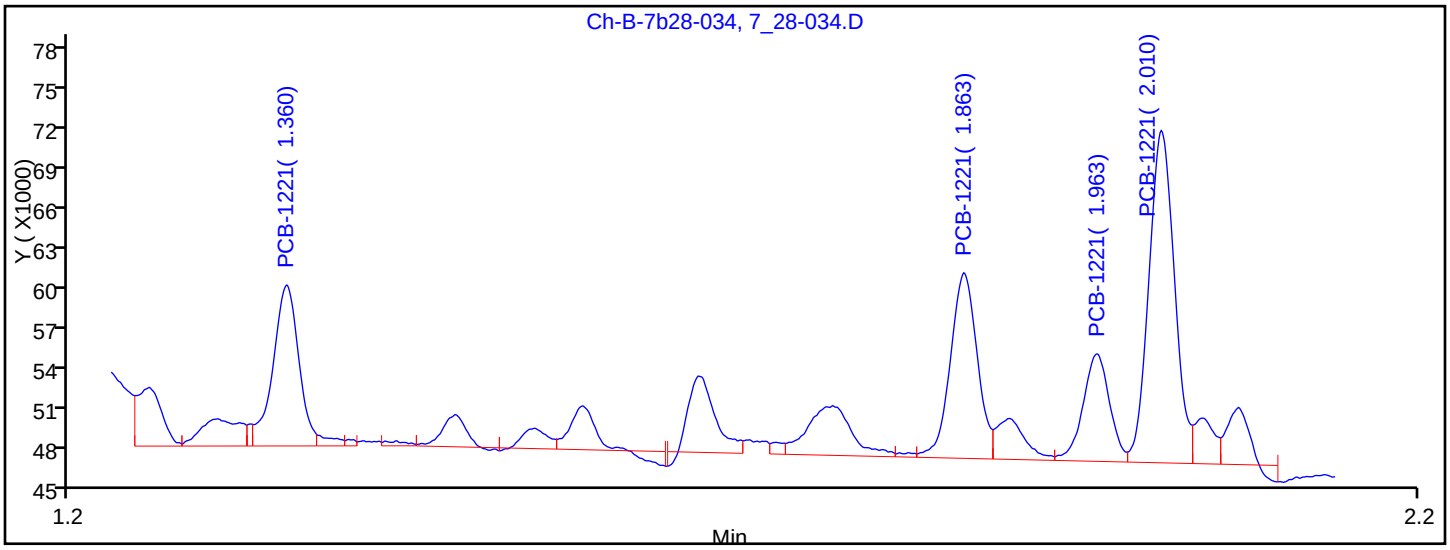
Column: Detector Ch-B-7b136

5 PCB-1221, CAS: 11104-28-2



Processing Integration Results

1.360	Response = 22341
1.863	Response = 21104
1.963	Response = 12569
2.010	Response = 34031



Manual Integration Results

1.360	Response = 15870	M
1.863	Response = 19169	M
1.963	Response = 11012	M
2.010	Response = 32777	M

Reviewer: owenj, 28-Mar-2017 16:45:15

Audit Action: Assigned New Baseline Audit Reason: Split Peak

Report Date: 29-Mar-2017 10:54:49 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-034.D

Injection Date: 28-Mar-2017 16:28:08 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

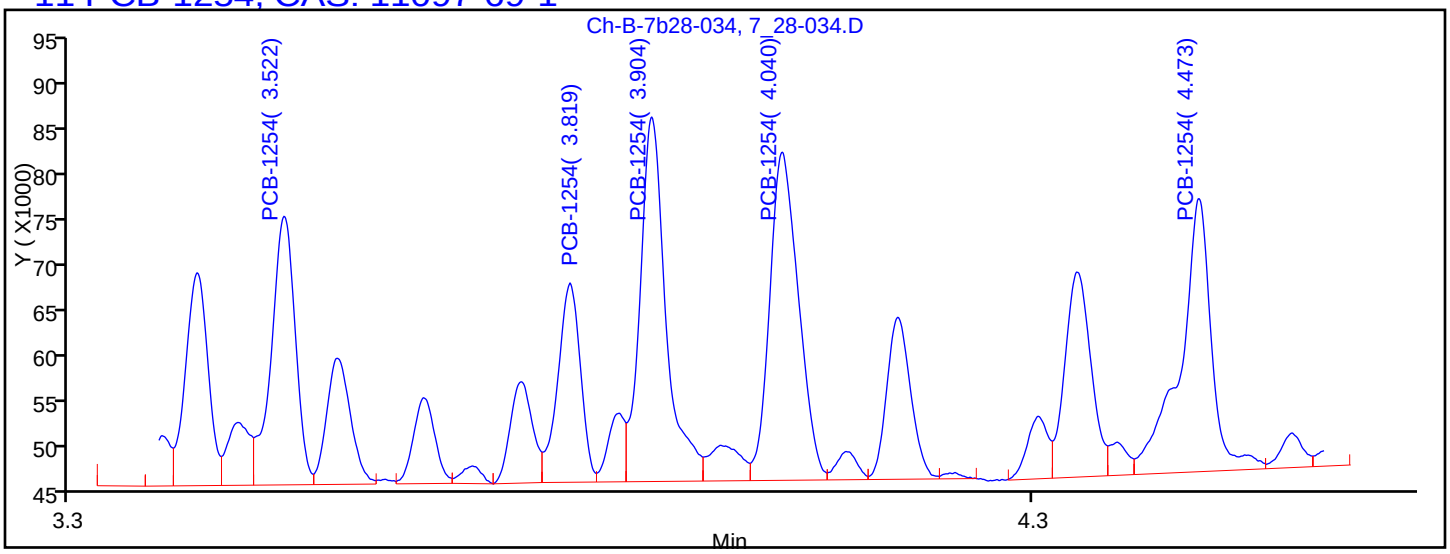
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 21

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

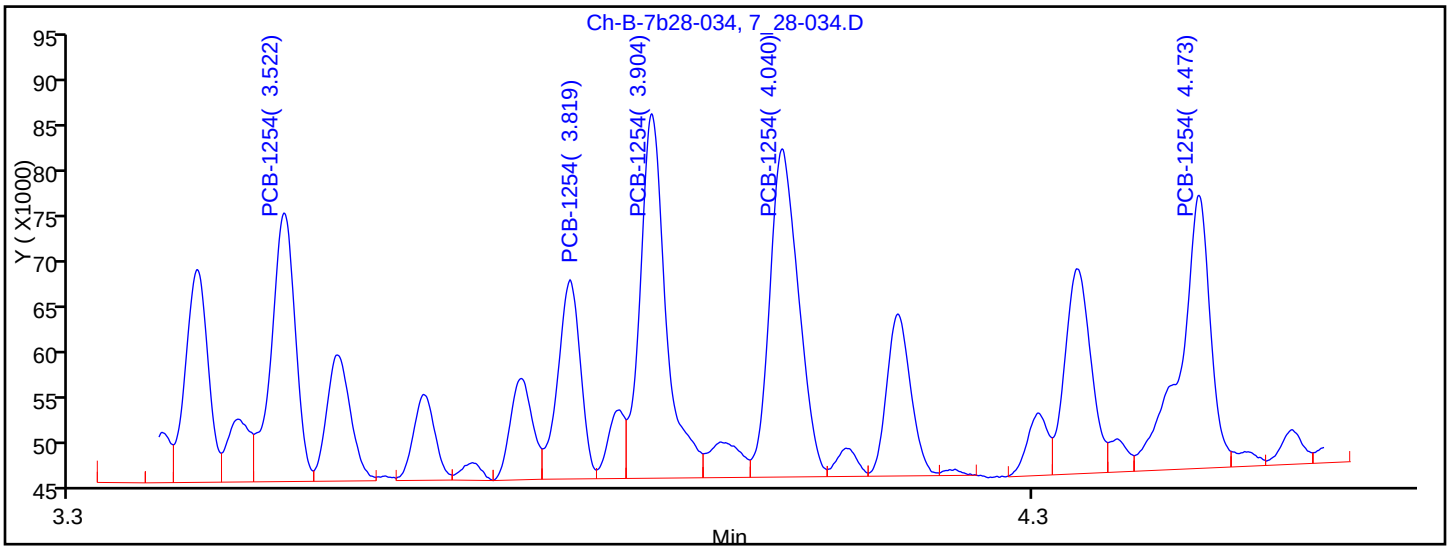
Column: Detector Ch-B-7b136

11 PCB-1254, CAS: 11097-69-1



Processing Integration Results

3.522	Response = 50766
3.819	Response = 35490
3.904	Response = 74054
4.040	Response = 74452
4.473	Response = 67437



Manual Integration Results

3.522	Response = 50766	
3.819	Response = 35490	
3.904	Response = 74054	
4.040	Response = 74452	
4.473	Response = 64659	M

Reviewer: owenj, 28-Mar-2017 16:44:16

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30048

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	0.0313	0.0235	0.0208			Lin1	0.0002	0.0211							0.9980		0.9900
PCB-1232 Peak 2	0.0174	0.0122	0.0109			Lin1	0.0001	0.0110							0.9980		0.9900
PCB-1232 Peak 3	0.0519	0.0397	0.0379			Lin1	0.0003	0.0380							1.0000		0.9900
PCB-1232 Peak 4	0.0261	0.0153	0.0142			Lin1	0.0002	0.0143							1.0000		0.9900
PCB-1232 Peak 5	0.0139	0.0105	0.0099			Lin1	0.0001	0.0099							1.0000		0.9900
PCB-1262 Peak 1	0.0688	0.0534	0.0530			Lin1	0.0003	0.0528							1.0000		0.9900
PCB-1262 Peak 2	0.0544	0.0413	0.0412			Lin1	0.0003	0.0410							1.0000		0.9900
PCB-1262 Peak 3	0.1197	0.0971	0.0977			Lin1	0.0004	0.0973							1.0000		0.9900
PCB-1262 Peak 4	0.0434	0.0315	0.0310			Lin1	0.0003	0.0309							1.0000		0.9900
PCB-1262 Peak 5	0.0520	0.0386	0.0387			Lin1	0.0003	0.0385							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30048

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	17402	334911	1168343			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	9674	173804	610530			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	28820	565414	2131860			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	14529	218513	800272			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	7700	149292	555432			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Lin1	38246	760515	2976769			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	30264	588139	2314069			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Lin1	66533	1384220	5491646			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Lin1	24137	448320	1743461			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Lin1	28917	550434	2172970			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 16:59:49 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:32:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14046745	0.5000	0.5000	
2	1.050	1.048	0.002	25289938	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.354	2.355	-0.001	1168343	2.00	1.96	
1	2.833	2.834	-0.002	610530	2.00	1.96	
1	3.039	3.039	0.000	2131860	2.00	1.99	
1	3.124	3.126	-0.002	800272	2.00	1.98	
1	3.187	3.187	0.000	555432	2.00	1.98	
		Average of Peak Amounts =				1.97	
2	2.012	2.011	0.001	1750185	2.00	1.95	M
2	2.323	2.322	0.000	1769313	2.00	1.96	a
2	2.630	2.628	0.002	3407079	2.00	1.98	a
2	2.740	2.739	0.001	1296867	2.00	1.97	a
2	3.108	3.108	0.000	1434330	2.00	1.97	a
		Average of Peak Amounts =				1.96	
						RPD = 0.46	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	5.049	5.050	-0.001	2976769	2.00	2.00	a
1	5.242	5.243	0.000	2314069	2.00	2.00	a
1	5.448	5.448	0.000	5491646	2.00	2.01	a
1	5.706	5.706	0.000	1743461	2.00	2.00	a
1	5.823	5.823	0.000	2172970	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	4.525	4.526	-0.001	5167503	2.00	2.00	a
2	4.783	4.783	0.000	4115805	2.00	2.00	
2	4.925	4.925	0.000	9998675	2.00	2.02	a
2	5.220	5.220	0.000	4214950	2.00	2.01	a
2	5.257	5.256	0.001	6104175	2.00	2.01	a
		Average of Peak Amounts =				2.01	
						RPD = 0.23	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00005 Amount Added: 0.25 Units: mL

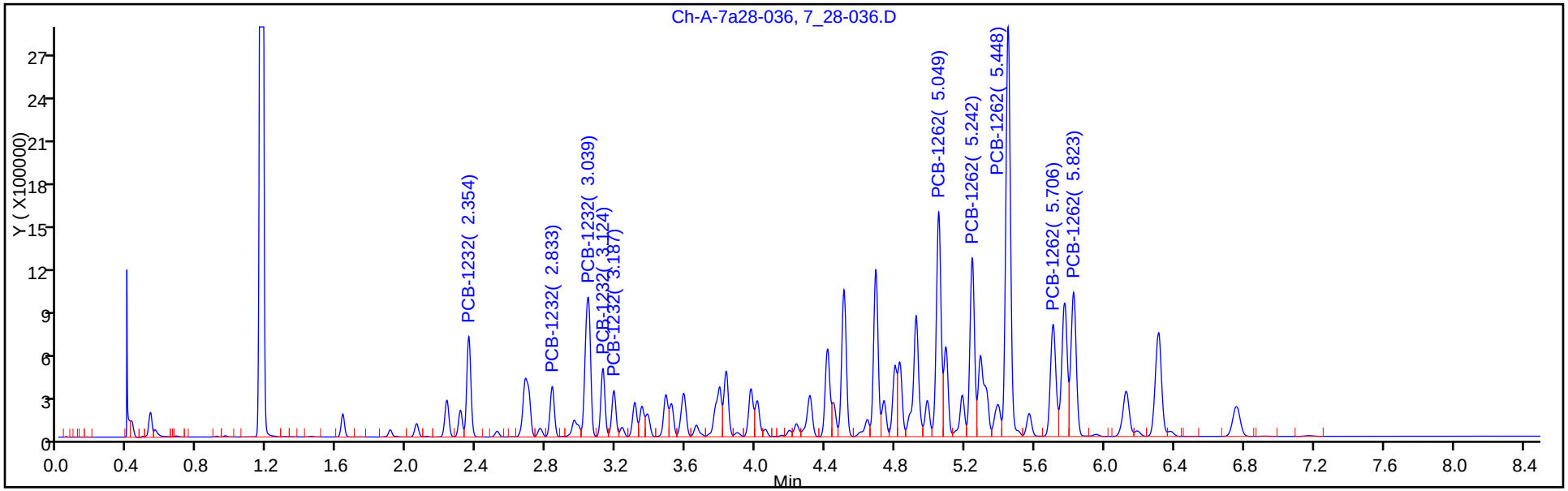
Report Date: 29-Mar-2017 10:55:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

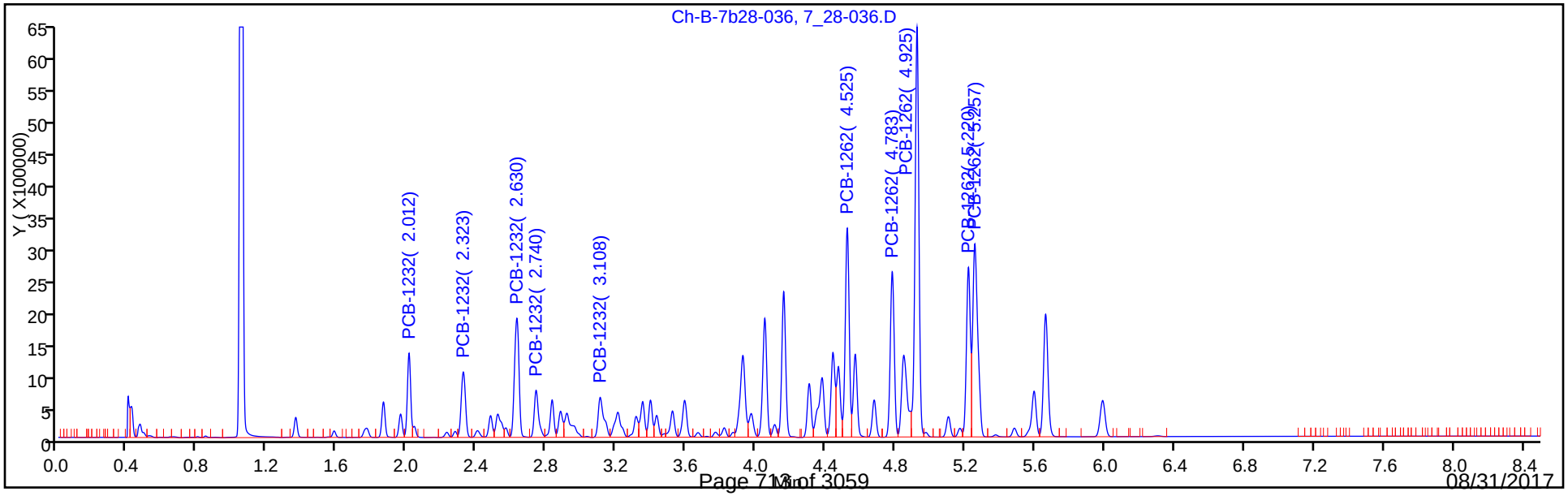
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D

Injection Date:	28-Mar-2017 16:59:49	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 17:15:44 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:05 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:41:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.165	1.167	-0.002	14250344	0.5000	0.5000	
2	1.049	1.048	0.001	25851508	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.353	2.355	-0.002	334911	0.5000	0.5449	
1	2.832	2.834	-0.002	173804	0.5000	0.5409	
1	3.038	3.039	-0.001	565414	0.5000	0.5137	
1	3.123	3.126	-0.004	218513	0.5000	0.5204	
1	3.185	3.187	-0.002	149292	0.5000	0.5188	
		Average of Peak Amounts =				0.5277	
2	2.011	2.011	0.000	517419	0.5000	0.5522	M
2	2.322	2.322	0.000	514104	0.5000	0.5457	M
2	2.630	2.628	0.002	932095	0.5000	0.5208	M
2	2.740	2.739	0.001	365995	0.5000	0.5348	M
2	3.108	3.108	0.000	401062	0.5000	0.5318	M
		Average of Peak Amounts =				0.5370	
						RPD = 1.75	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.048	5.050	-0.002	760515	0.5000	0.4993	
1	5.242	5.243	0.000	588139	0.5000	0.4969	
1	5.446	5.448	-0.002	1384220	0.5000	0.4948	
1	5.704	5.706	-0.002	448320	0.5000	0.5007	
1	5.822	5.823	0.000	550434	0.5000	0.4953	
		Average of Peak Amounts =				0.4974	
2	4.526	4.526	0.000	1320211	0.5000	0.4973	M
2	4.783	4.783	0.000	1068273	0.5000	0.5034	M
2	4.925	4.925	0.000	2452156	0.5000	0.4835	M
2	5.220	5.220	0.000	1056100	0.5000	0.4916	M
2	5.257	5.256	0.001	1512599	0.5000	0.4872	M
		Average of Peak Amounts =				0.4926	
						RPD = 0.97	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00008 Amount Added: 0.25 Units: mL

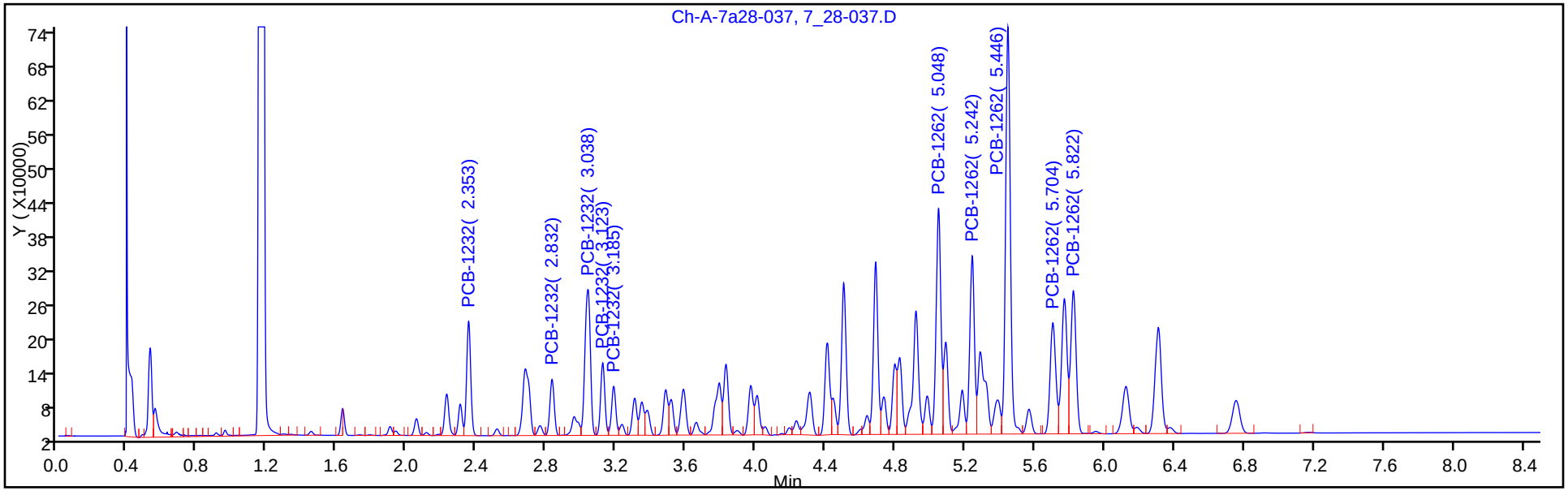
Report Date: 29-Mar-2017 10:55:05 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

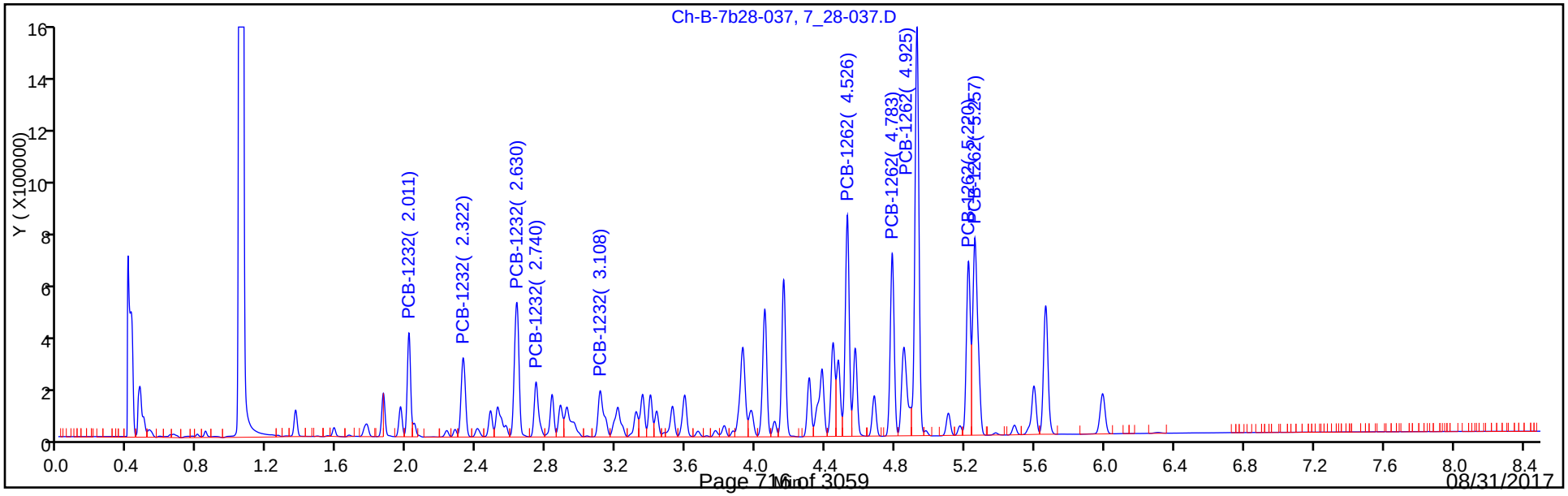
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date:	28-Mar-2017 17:15:44	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 17:31:48 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:09 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:06:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13895818	0.5000	0.5000	
2	1.049	1.049	0.000	25650662	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.355	2.355	0.000	17402	0.0200	0.0186	
1	2.834	2.834	0.000	9674	0.0200	0.0188	M
1	3.039	3.039	0.000	28820	0.0200	0.0196	M
1	3.126	3.126	0.000	14529	0.0200	0.0194	M
1	3.187	3.187	0.000	7700	0.0200	0.0194	M
		Average of Peak Amounts =				0.0192	
2	2.011	2.011	0.000	31396	0.0200	0.0184	
2	2.322	2.322	0.000	29932	0.0200	0.0186	M
2	2.628	2.628	0.000	55166	0.0200	0.0194	M
2	2.739	2.739	0.000	20022	0.0200	0.0189	M
2	3.108	3.108	0.000	20949	0.0200	0.0190	M
		Average of Peak Amounts =				0.0189	
						RPD = 1.48	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.050	5.050	0.000	38246	0.0200	0.0200	M
1	5.243	5.243	0.000	30264	0.0200	0.0201	M
1	5.448	5.448	0.000	66533	0.0200	0.0202	M
1	5.706	5.706	0.000	24137	0.0200	0.0200	M
1	5.823	5.823	0.000	28917	0.0200	0.0201	M
		Average of Peak Amounts =				0.0201	
2	4.526	4.526	0.000	63453	0.0200	0.0201	M
2	4.783	4.783	0.000	51373	0.0200	0.0199	M
2	4.925	4.925	0.000	104710	0.0200	0.0205	M
2	5.220	5.220	0.000	44964	0.0200	0.0203	M
2	5.256	5.256	0.000	65124	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00005 Amount Added: 0.25 Units: mL

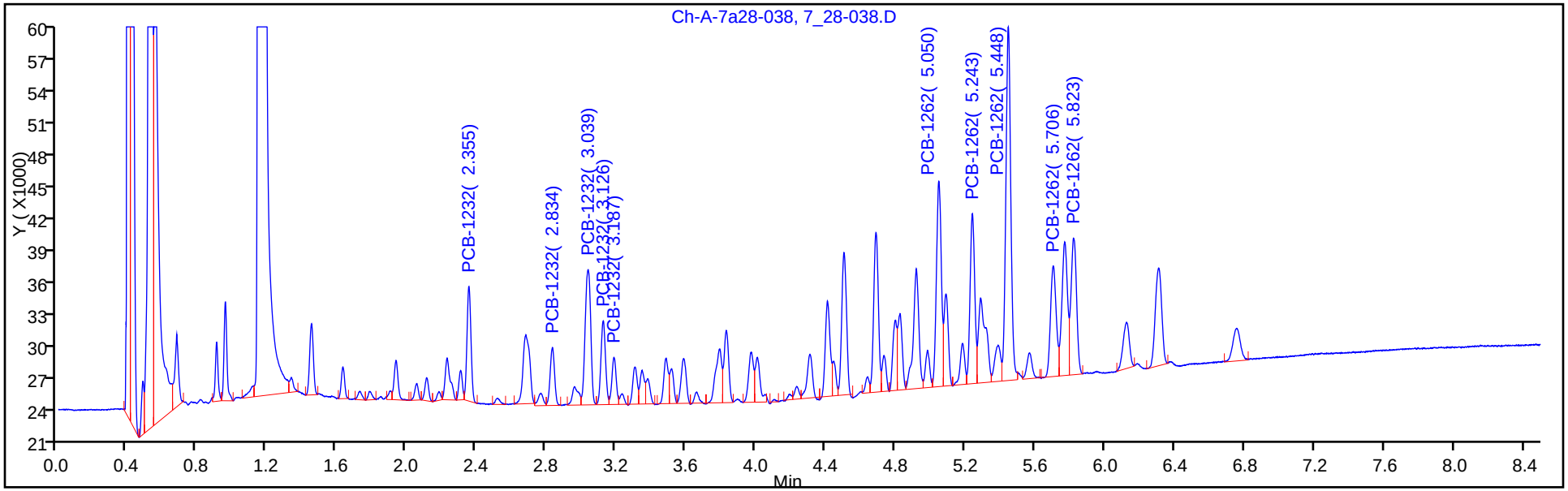
Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

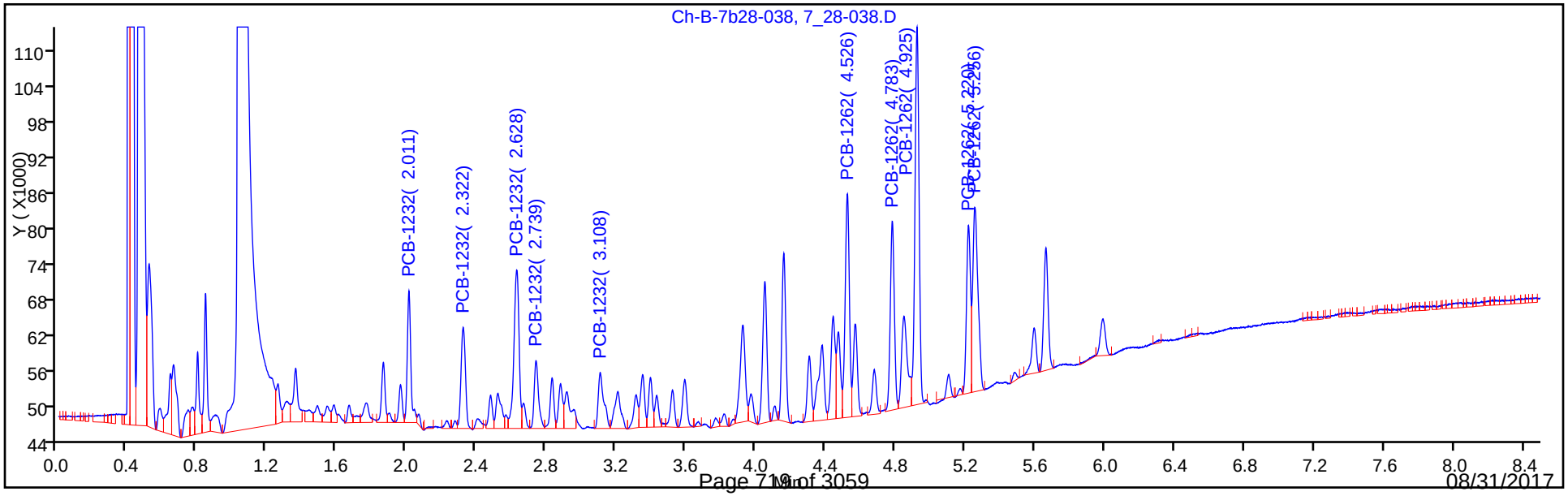
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date:	28-Mar-2017 17:31:48	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

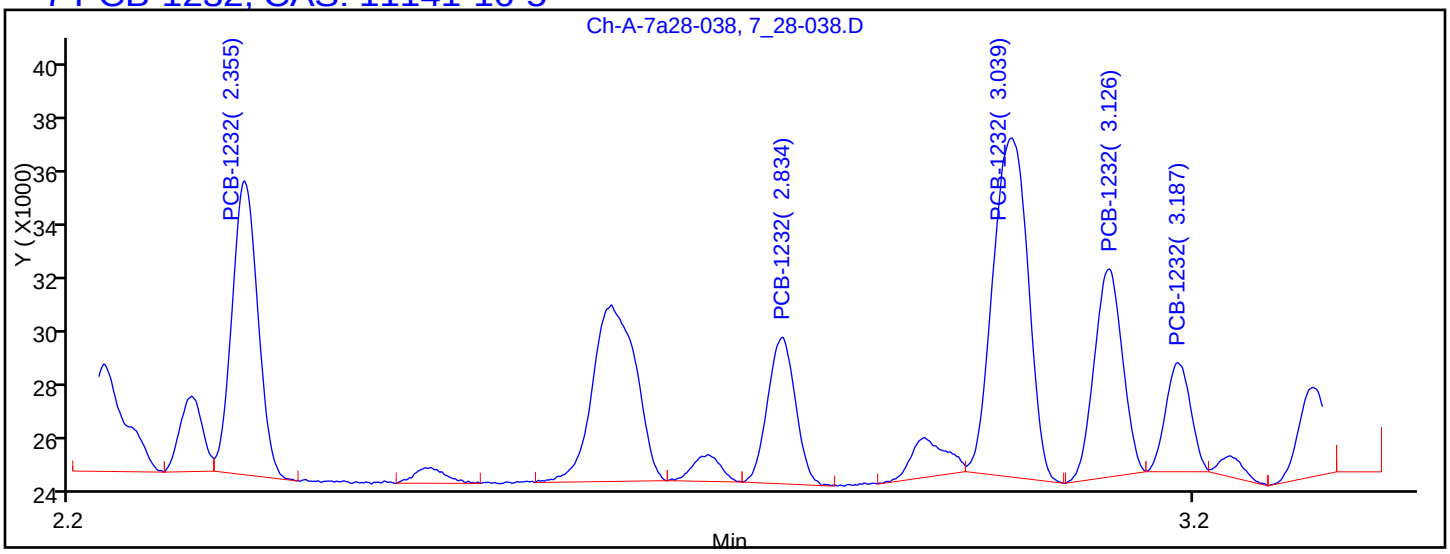
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

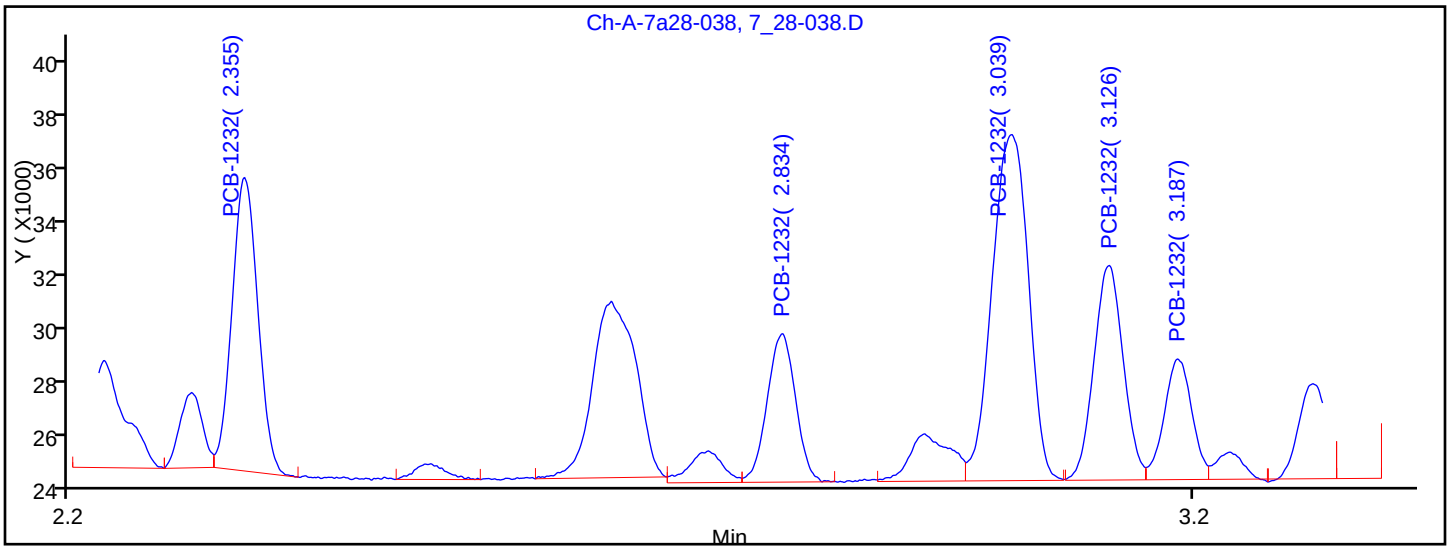
Column: Detector Ch-A-7A136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.355	Response = 17402
2.834	Response = 9355
3.039	Response = 27463
3.126	Response = 13519
3.187	Response = 6260



Manual Integration Results

2.355	Response = 17402	
2.834	Response = 9674	M
3.039	Response = 28820	M
3.126	Response = 14529	M
3.187	Response = 7700	M

Reviewer: owenj, 28-Mar-2017 17:51:16

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

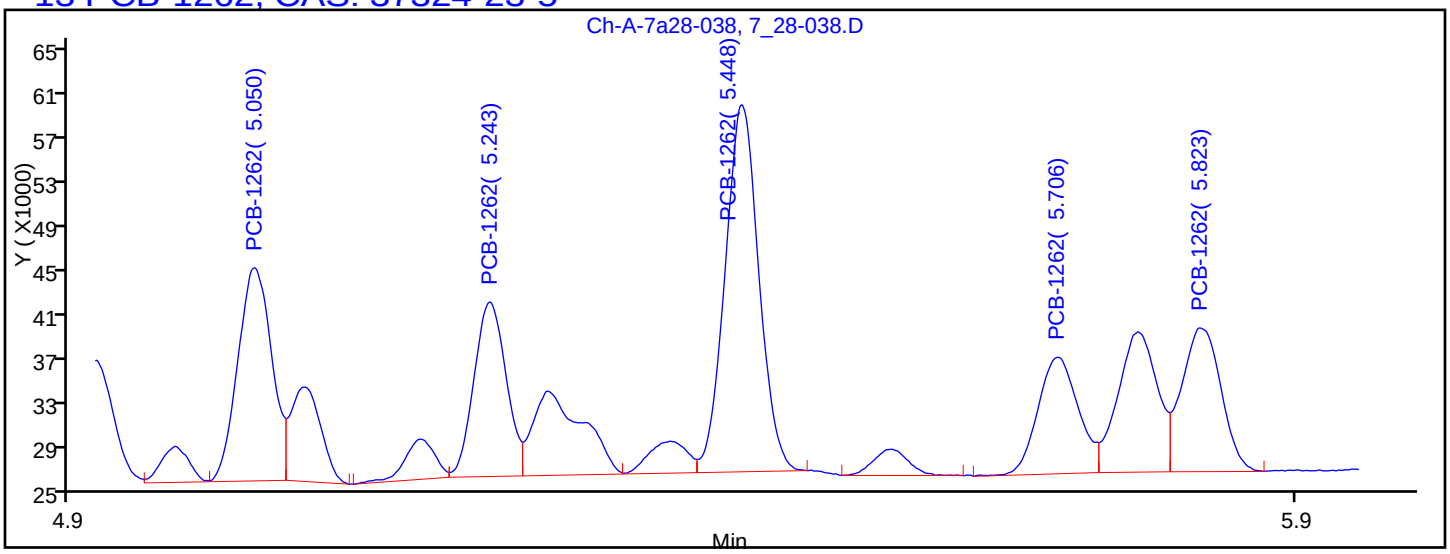
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

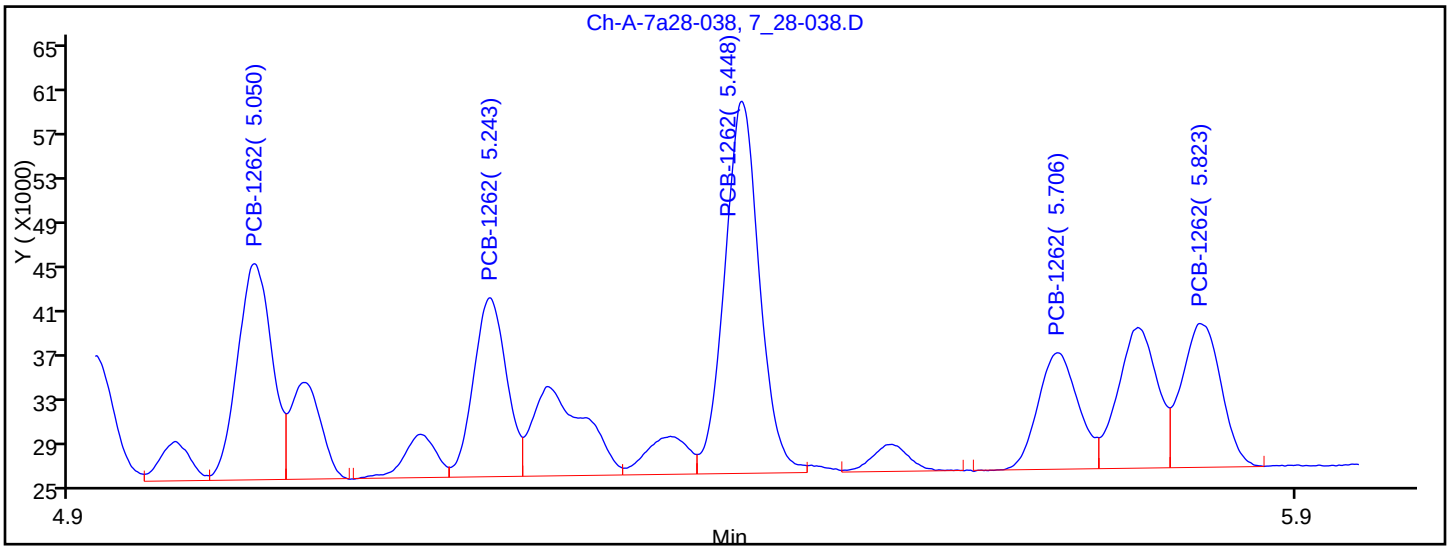
Column: Detector Ch-A-7A136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

5.050	Response = 36943
5.243	Response = 28597
5.448	Response = 63333
5.706	Response = 24131
5.823	Response = 28724



Manual Integration Results

5.050	Response = 38246	M
5.243	Response = 30264	M
5.448	Response = 66533	M
5.706	Response = 24137	M
5.823	Response = 28917	M

Reviewer: owenj, 28-Mar-2017 17:51:14

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30049

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1232 Peak 1	0.0306	0.0200	0.0173			Lin1	0.0003	0.0176							0.9970		0.9900
PCB-1232 Peak 2	0.0292	0.0199	0.0175			Lin1	0.0003	0.0178							0.9980		0.9900
PCB-1232 Peak 3	0.0538	0.0361	0.0337			Lin1	0.0004	0.0338							1.0000		0.9900
PCB-1232 Peak 4	0.0195	0.0142	0.0128			Lin1	0.0001	0.0130							0.9990		0.9900
PCB-1232 Peak 5	0.0204	0.0155	0.0142			Lin1	0.0001	0.0143							0.9990		0.9900
PCB-1262 Peak 1	0.0618	0.0511	0.0511			Lin1	0.0002	0.0509							1.0000		0.9900
PCB-1262 Peak 2	0.0501	0.0413	0.0407			Lin1	0.0002	0.0407							1.0000		0.9900
PCB-1262 Peak 3	0.1021	0.0949	0.0988			Lin1	0	0.0980							1.0000		0.9900
PCB-1262 Peak 4	0.0438	0.0409	0.0417			Lin1	0	0.0415							1.0000		0.9900
PCB-1262 Peak 5	0.0635	0.0585	0.0603			Lin1	0	0.0599							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 16:59 Calibration End Date: 03/28/2017 17:31 Calibration ID: 30049

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/25	7_28-038.D
Level 2	IC 480-349118/24	7_28-037.D
Level 3	IC 480-349118/23	7_28-036.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	BNB	Lin1	31396	517419	1750185			0.0200	0.500	2.00		
PCB-1232 Peak 2	BNB	Lin1	29932	514104	1769313			0.0200	0.500	2.00		
PCB-1232 Peak 3	BNB	Lin1	55166	932095	3407079			0.0200	0.500	2.00		
PCB-1232 Peak 4	BNB	Lin1	20022	365995	1296867			0.0200	0.500	2.00		
PCB-1232 Peak 5	BNB	Lin1	20949	401062	1434330			0.0200	0.500	2.00		
PCB-1262 Peak 1	BNB	Lin1	63453	1320211	5167503			0.0200	0.500	2.00		
PCB-1262 Peak 2	BNB	Lin1	51373	1068273	4115805			0.0200	0.500	2.00		
PCB-1262 Peak 3	BNB	Lin1	104710	2452156	9998675			0.0200	0.500	2.00		
PCB-1262 Peak 4	BNB	Lin1	44964	1056100	4214950			0.0200	0.500	2.00		
PCB-1262 Peak 5	BNB	Lin1	65124	1512599	6104175			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 16:59:49 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:54:59 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:32:08

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14046745	0.5000	0.5000	
2	1.050	1.048	0.002	25289938	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.354	2.355	-0.001	1168343	2.00	1.96	
1	2.833	2.834	-0.002	610530	2.00	1.96	
1	3.039	3.039	0.000	2131860	2.00	1.99	
1	3.124	3.126	-0.002	800272	2.00	1.98	
1	3.187	3.187	0.000	555432	2.00	1.98	
		Average of Peak Amounts =				1.97	
2	2.012	2.011	0.001	1750185	2.00	1.95	M
2	2.323	2.322	0.000	1769313	2.00	1.96	a
2	2.630	2.628	0.002	3407079	2.00	1.98	a
2	2.740	2.739	0.001	1296867	2.00	1.97	a
2	3.108	3.108	0.000	1434330	2.00	1.97	a
		Average of Peak Amounts =				1.96	
						RPD = 0.46	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							
1	5.049	5.050	-0.001	2976769	2.00	2.00	a
1	5.242	5.243	0.000	2314069	2.00	2.00	a
1	5.448	5.448	0.000	5491646	2.00	2.01	a
1	5.706	5.706	0.000	1743461	2.00	2.00	a
1	5.823	5.823	0.000	2172970	2.00	2.00	a
		Average of Peak Amounts =				2.00	
2	4.525	4.526	-0.001	5167503	2.00	2.00	a
2	4.783	4.783	0.000	4115805	2.00	2.00	
2	4.925	4.925	0.000	9998675	2.00	2.02	a
2	5.220	5.220	0.000	4214950	2.00	2.01	a
2	5.257	5.256	0.001	6104175	2.00	2.01	a
		Average of Peak Amounts =				2.01	
						RPD = 0.23	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@2.0_00005 Amount Added: 0.25 Units: mL

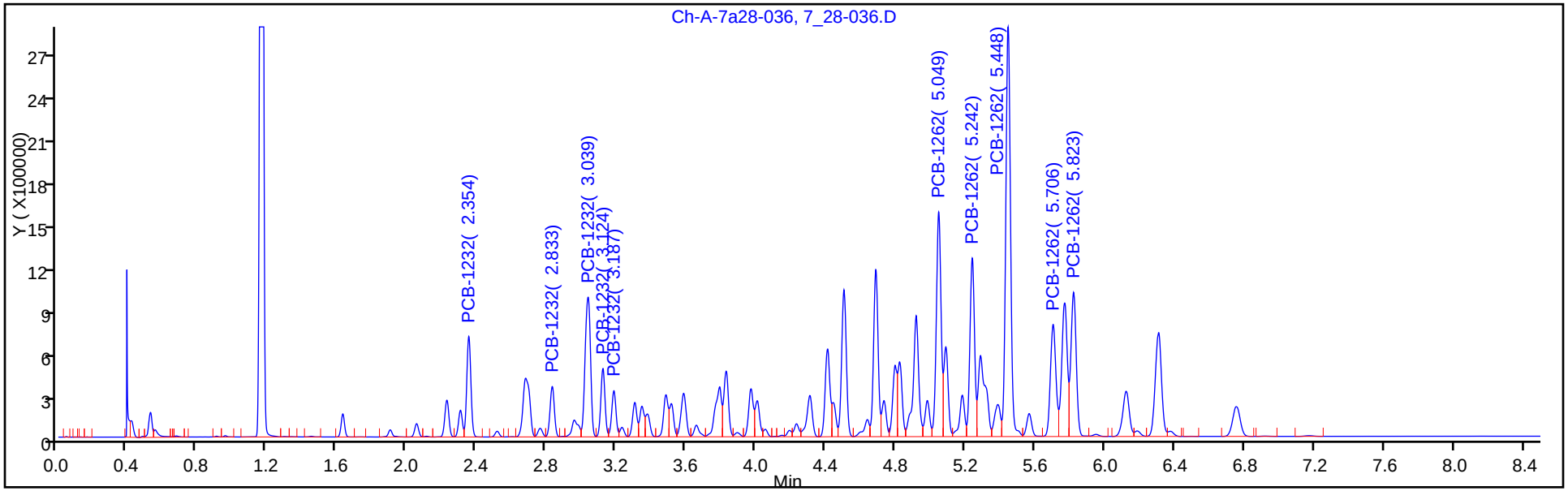
Report Date: 29-Mar-2017 10:55:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

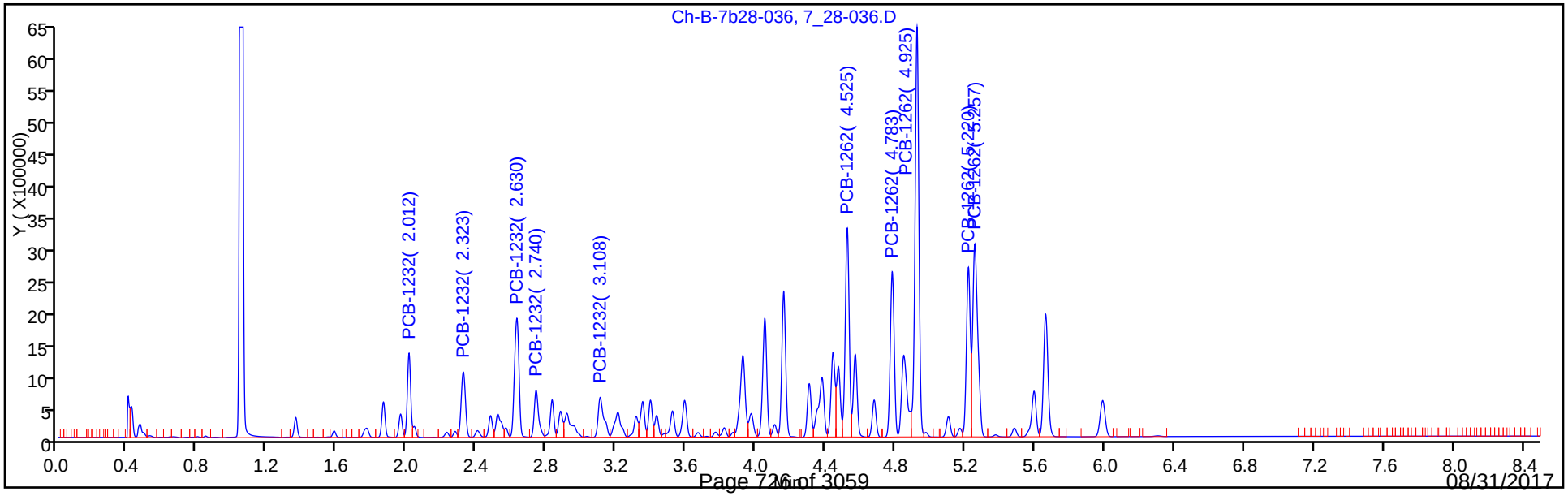
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D

Injection Date:	28-Mar-2017 16:59:49	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	23
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:00 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-036.D

Injection Date: 28-Mar-2017 16:59:49 Instrument ID: HP6890-7

Lims ID: IC 3

Client ID:

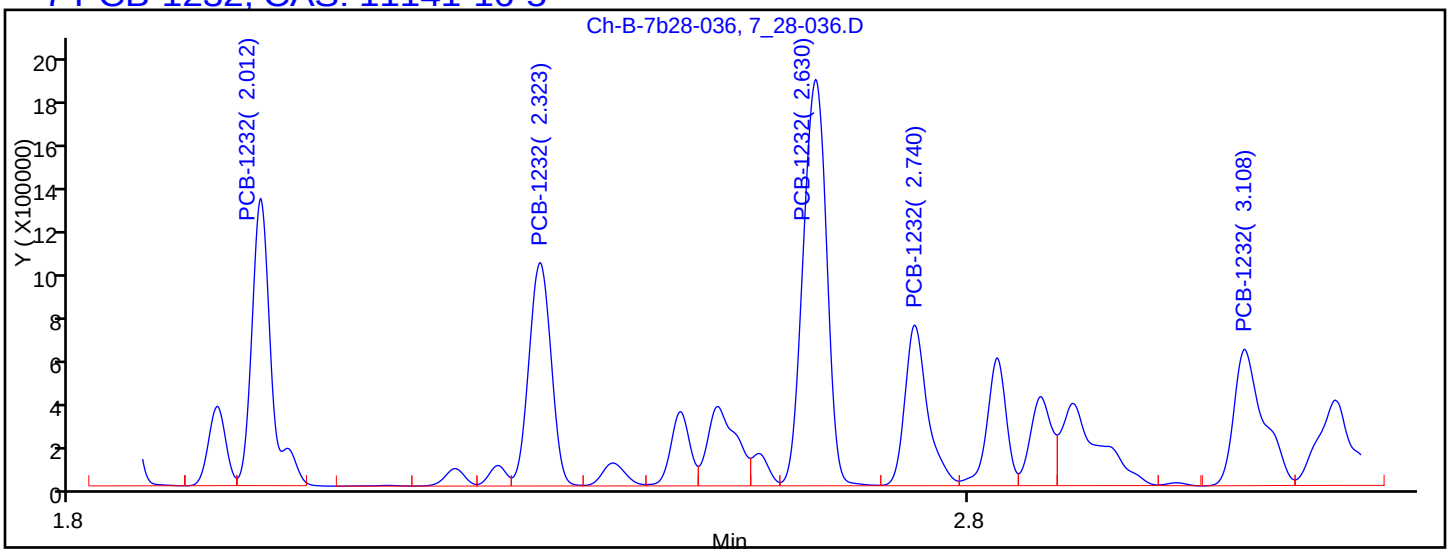
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 23

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

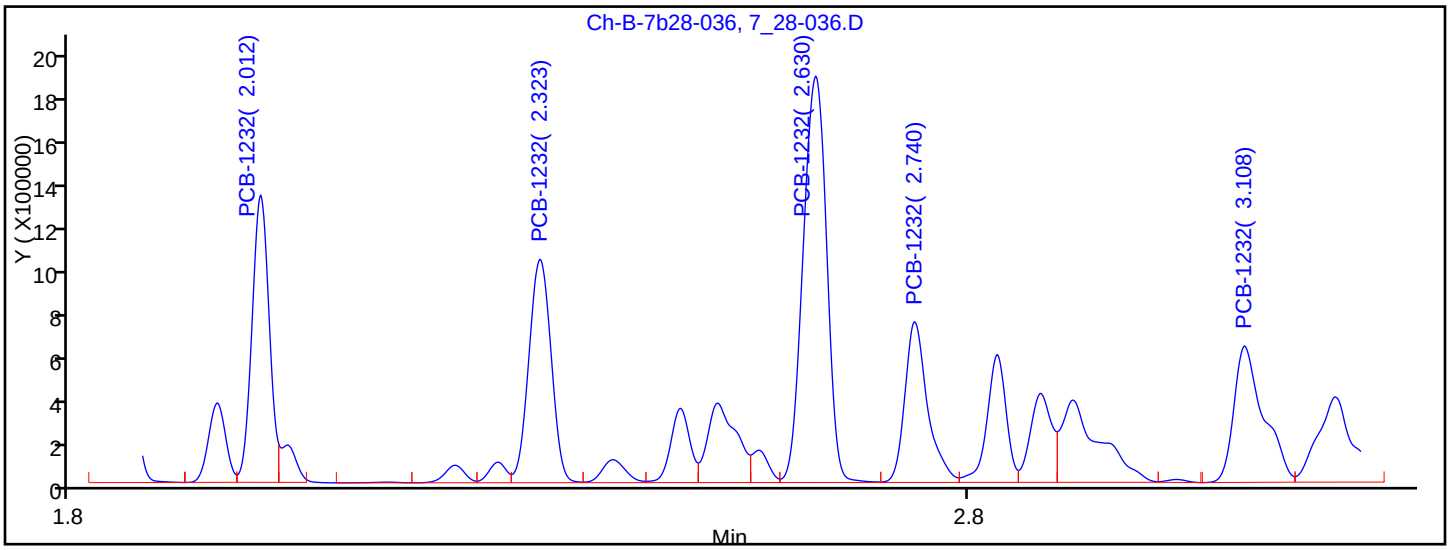
Column: Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.012	Response = 1962269
2.323	Response = 1769313
2.630	Response = 3407079
2.740	Response = 1296867
3.108	Response = 1434330



Manual Integration Results

2.012	Response = 1750185	M
2.323	Response = 1769313	M
2.630	Response = 3407079	M
2.740	Response = 1296867	M
3.108	Response = 1434330	M

Reviewer: owenj, 28-Mar-2017 17:40:19

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 17:15:44 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:05 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 17:41:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.165	1.167	-0.002	14250344	0.5000	0.5000	
2	1.049	1.048	0.001	25851508	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.353	2.355	-0.002	334911	0.5000	0.5449	
1	2.832	2.834	-0.002	173804	0.5000	0.5409	
1	3.038	3.039	-0.001	565414	0.5000	0.5137	
1	3.123	3.126	-0.004	218513	0.5000	0.5204	
1	3.185	3.187	-0.002	149292	0.5000	0.5188	
		Average of Peak Amounts =				0.5277	
2	2.011	2.011	0.000	517419	0.5000	0.5522	M
2	2.322	2.322	0.000	514104	0.5000	0.5457	M
2	2.630	2.628	0.002	932095	0.5000	0.5208	M
2	2.740	2.739	0.001	365995	0.5000	0.5348	M
2	3.108	3.108	0.000	401062	0.5000	0.5318	M
		Average of Peak Amounts =				0.5370	
						RPD = 1.75	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.048	5.050	-0.002	760515	0.5000	0.4993	
1	5.242	5.243	0.000	588139	0.5000	0.4969	
1	5.446	5.448	-0.002	1384220	0.5000	0.4948	
1	5.704	5.706	-0.002	448320	0.5000	0.5007	
1	5.822	5.823	0.000	550434	0.5000	0.4953	
		Average of Peak Amounts =				0.4974	
2	4.526	4.526	0.000	1320211	0.5000	0.4973	M
2	4.783	4.783	0.000	1068273	0.5000	0.5034	M
2	4.925	4.925	0.000	2452156	0.5000	0.4835	M
2	5.220	5.220	0.000	1056100	0.5000	0.4916	M
2	5.257	5.256	0.001	1512599	0.5000	0.4872	M
		Average of Peak Amounts =				0.4926	
						RPD = 0.97	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00008 Amount Added: 0.25 Units: mL

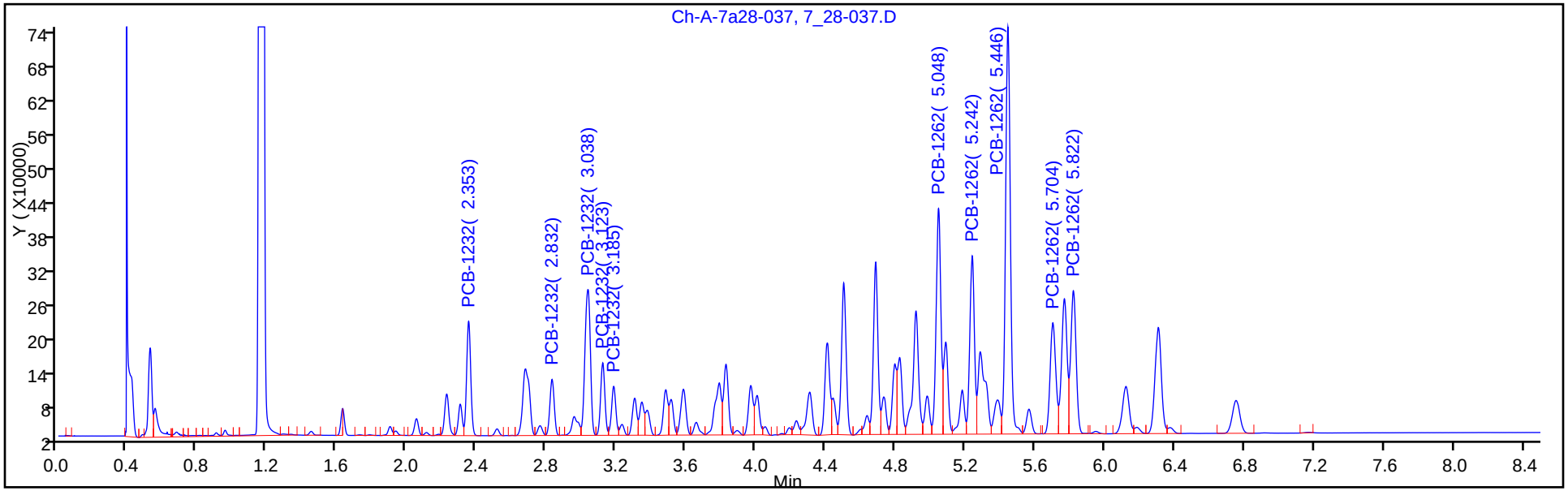
Report Date: 29-Mar-2017 10:55:06 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

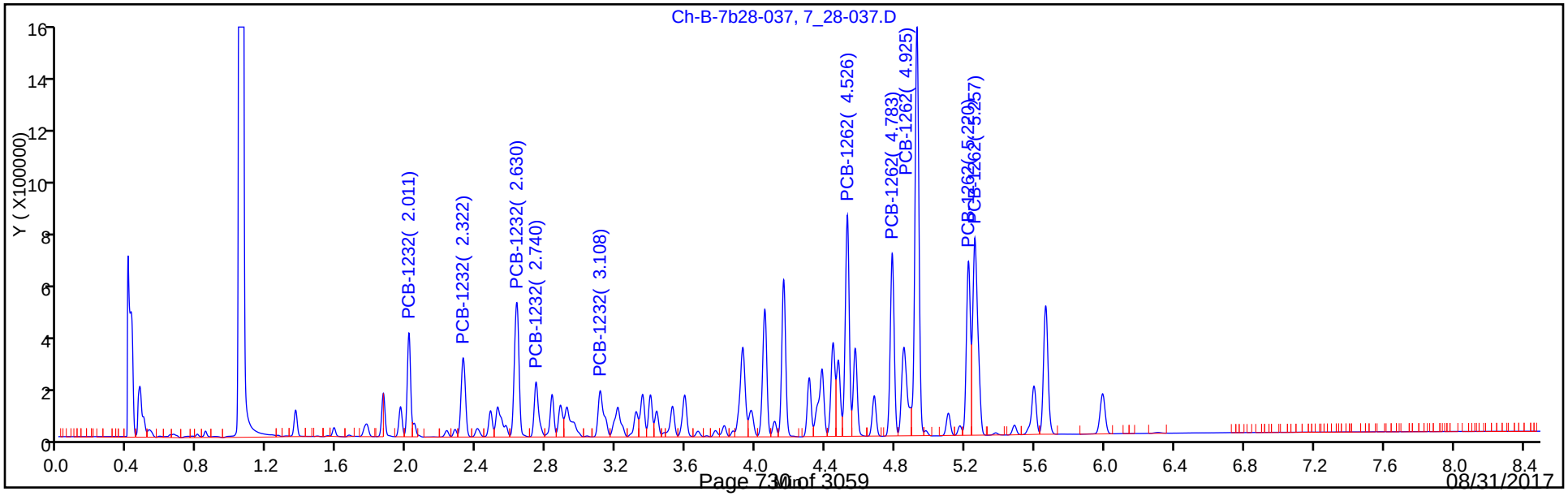
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date:	28-Mar-2017 17:15:44	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	24
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:06 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date: 28-Mar-2017 17:15:44 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

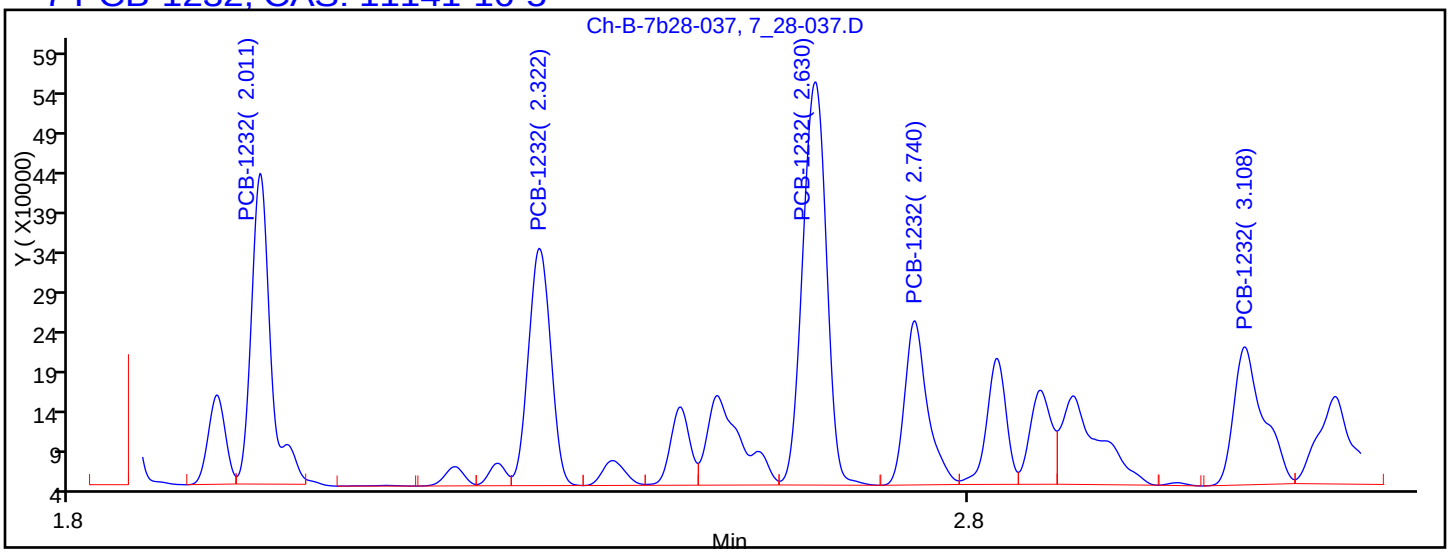
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

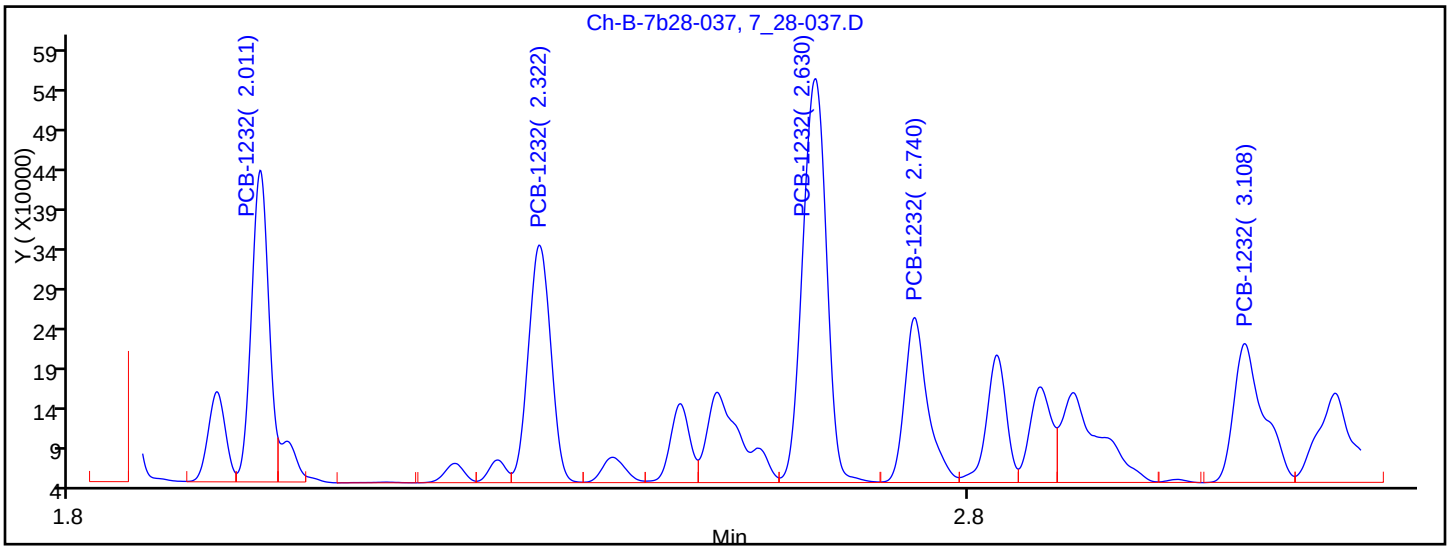
Column: Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.011	Response = 577204
2.322	Response = 512141
2.630	Response = 926169
2.740	Response = 360028
3.108	Response = 394142



Manual Integration Results

2.011	Response = 517419	M
2.322	Response = 514104	M
2.630	Response = 932095	M
2.740	Response = 365995	M
3.108	Response = 401062	M

Reviewer: owenj, 28-Mar-2017 17:41:25

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:06 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-037.D

Injection Date: 28-Mar-2017 17:15:44 Instrument ID: HP6890-7

Lims ID: IC 2

Client ID:

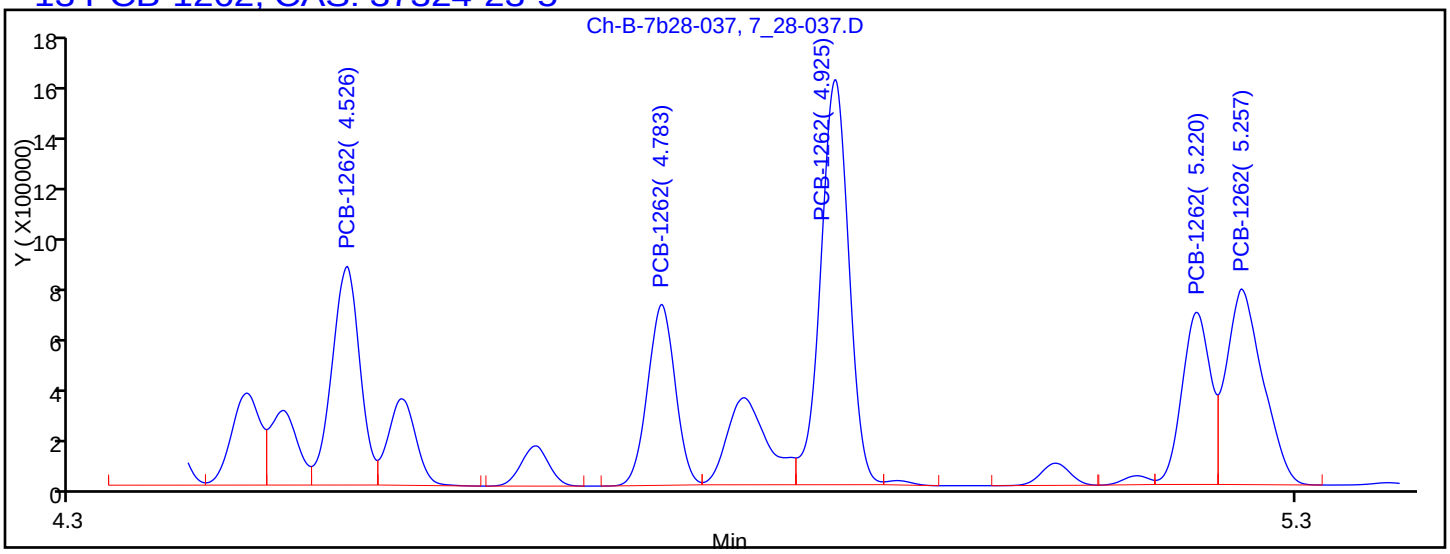
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

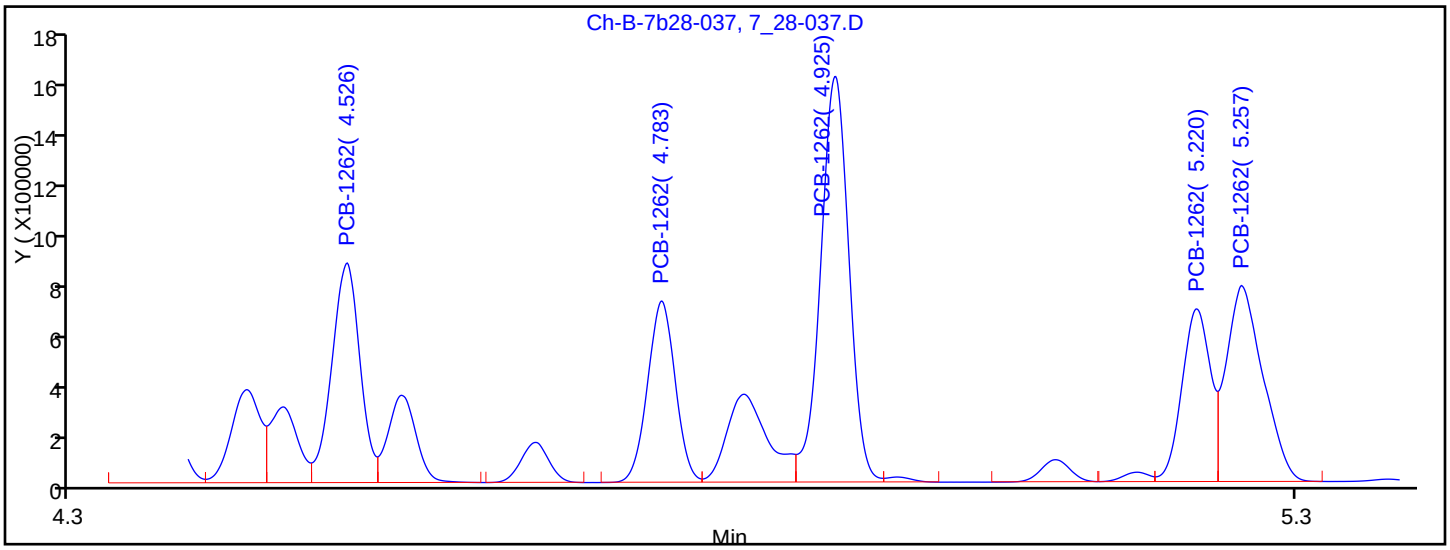
Column: Detector Ch-B-7b136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.526	Response = 1307081
4.783	Response = 1063122
4.925	Response = 2439406
5.220	Response = 1048986
5.257	Response = 1508361



Manual Integration Results

4.526	Response = 1320211	M
4.783	Response = 1068273	M
4.925	Response = 2452156	M
5.220	Response = 1056100	M
5.257	Response = 1512599	M

Reviewer: owenj, 28-Mar-2017 17:41:21

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 17:31:48 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:09 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:06:24

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	13895818	0.5000	0.5000	
2	1.049	1.049	0.000	25650662	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.355	2.355	0.000	17402	0.0200	0.0186	
1	2.834	2.834	0.000	9674	0.0200	0.0188	M
1	3.039	3.039	0.000	28820	0.0200	0.0196	M
1	3.126	3.126	0.000	14529	0.0200	0.0194	M
1	3.187	3.187	0.000	7700	0.0200	0.0194	M
		Average of Peak Amounts =				0.0192	
2	2.011	2.011	0.000	31396	0.0200	0.0184	
2	2.322	2.322	0.000	29932	0.0200	0.0186	M
2	2.628	2.628	0.000	55166	0.0200	0.0194	M
2	2.739	2.739	0.000	20022	0.0200	0.0189	M
2	3.108	3.108	0.000	20949	0.0200	0.0190	M
		Average of Peak Amounts =				0.0189	
						RPD = 1.48	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13 PCB-1262							M
1	5.050	5.050	0.000	38246	0.0200	0.0200	M
1	5.243	5.243	0.000	30264	0.0200	0.0201	M
1	5.448	5.448	0.000	66533	0.0200	0.0202	M
1	5.706	5.706	0.000	24137	0.0200	0.0200	M
1	5.823	5.823	0.000	28917	0.0200	0.0201	M
		Average of Peak Amounts =				0.0201	
2	4.526	4.526	0.000	63453	0.0200	0.0201	M
2	4.783	4.783	0.000	51373	0.0200	0.0199	M
2	4.925	4.925	0.000	104710	0.0200	0.0205	M
2	5.220	5.220	0.000	44964	0.0200	0.0203	M
2	5.256	5.256	0.000	65124	0.0200	0.0204	M
		Average of Peak Amounts =				0.0202	
						RPD = 0.72	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@.02_00005 Amount Added: 0.25 Units: mL

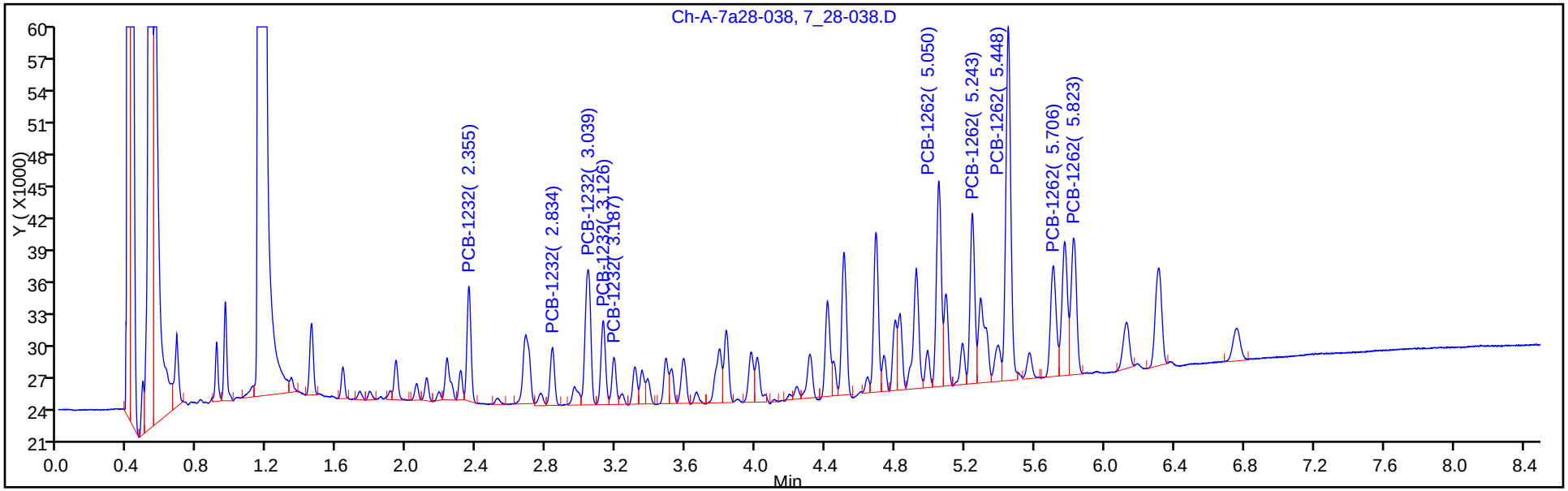
Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

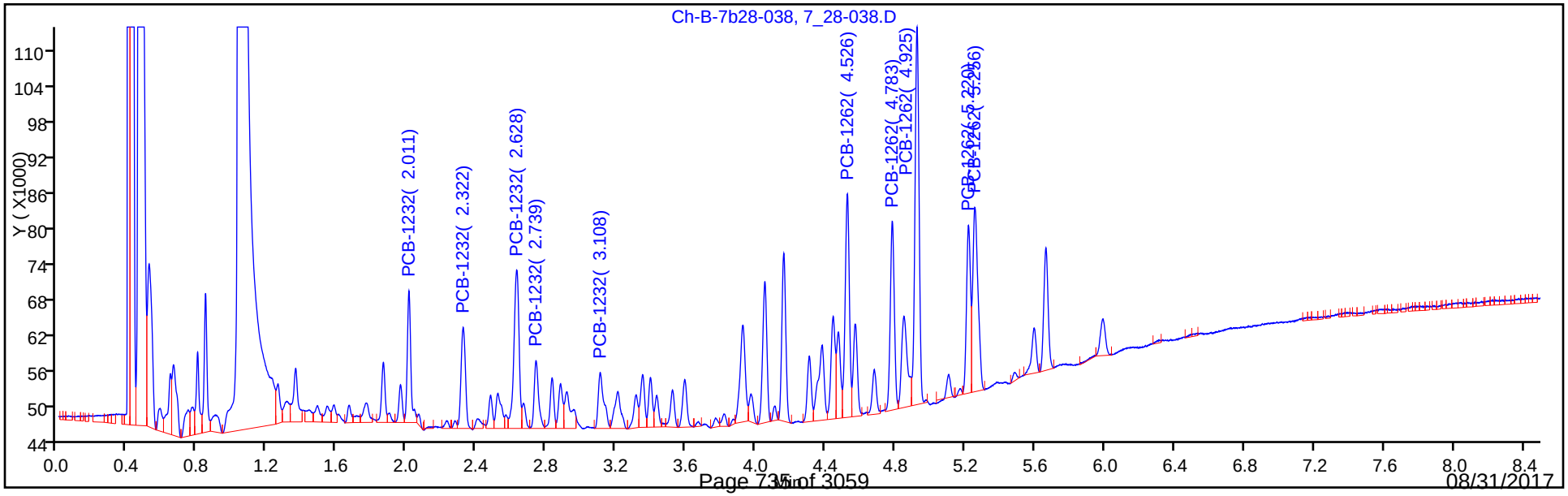
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date:	28-Mar-2017 17:31:48	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	25
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

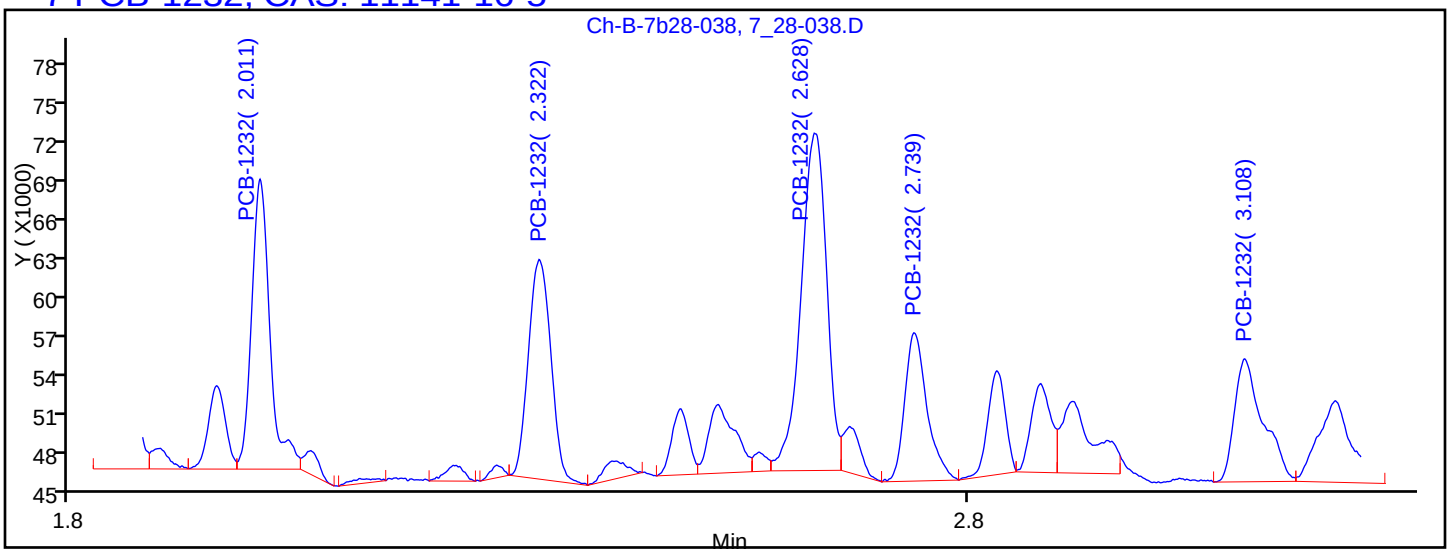
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

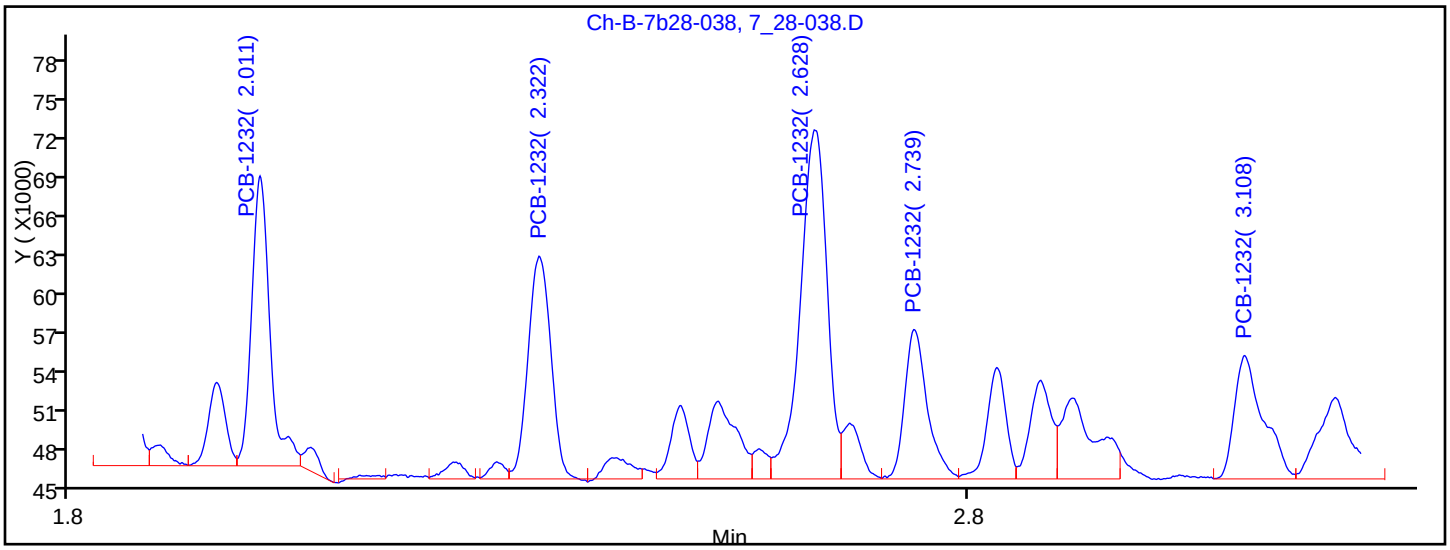
Column: Detector Ch-B-7b136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.011	Response = 31396
2.322	Response = 29165
2.628	Response = 51011
2.739	Response = 19530
3.108	Response = 20745



Manual Integration Results

2.011	Response = 31396	
2.322	Response = 29932	M
2.628	Response = 55166	M
2.739	Response = 20022	M
3.108	Response = 20949	M

Reviewer: owenj, 28-Mar-2017 17:51:31

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:10 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-038.D

Injection Date: 28-Mar-2017 17:31:48 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

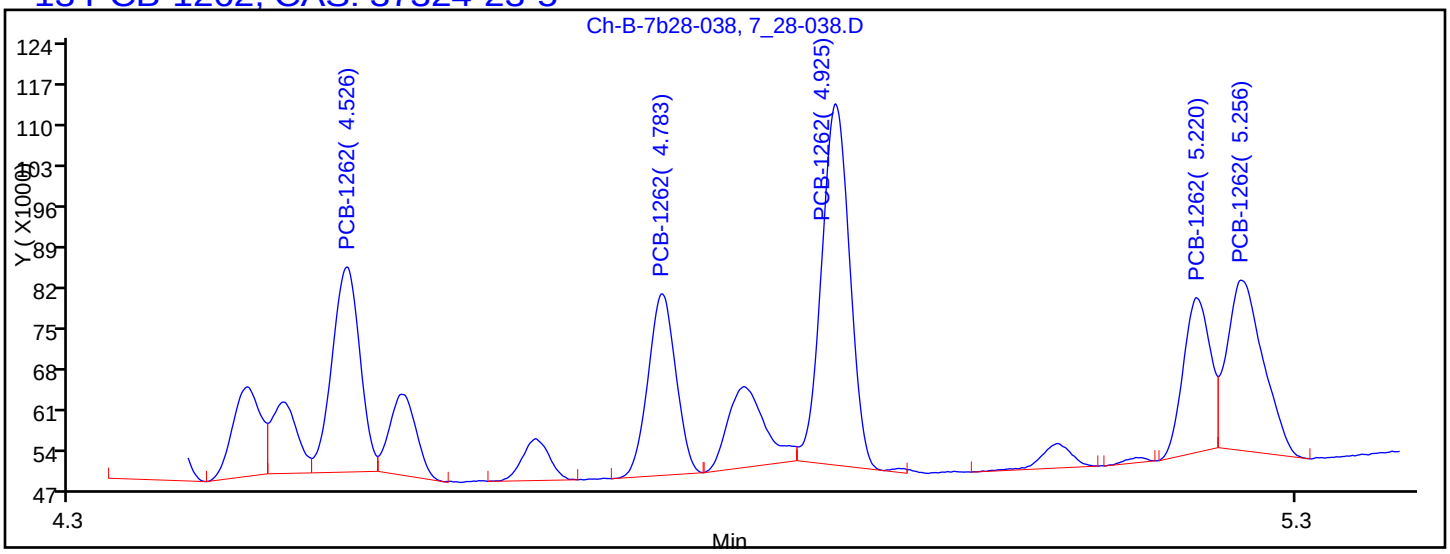
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

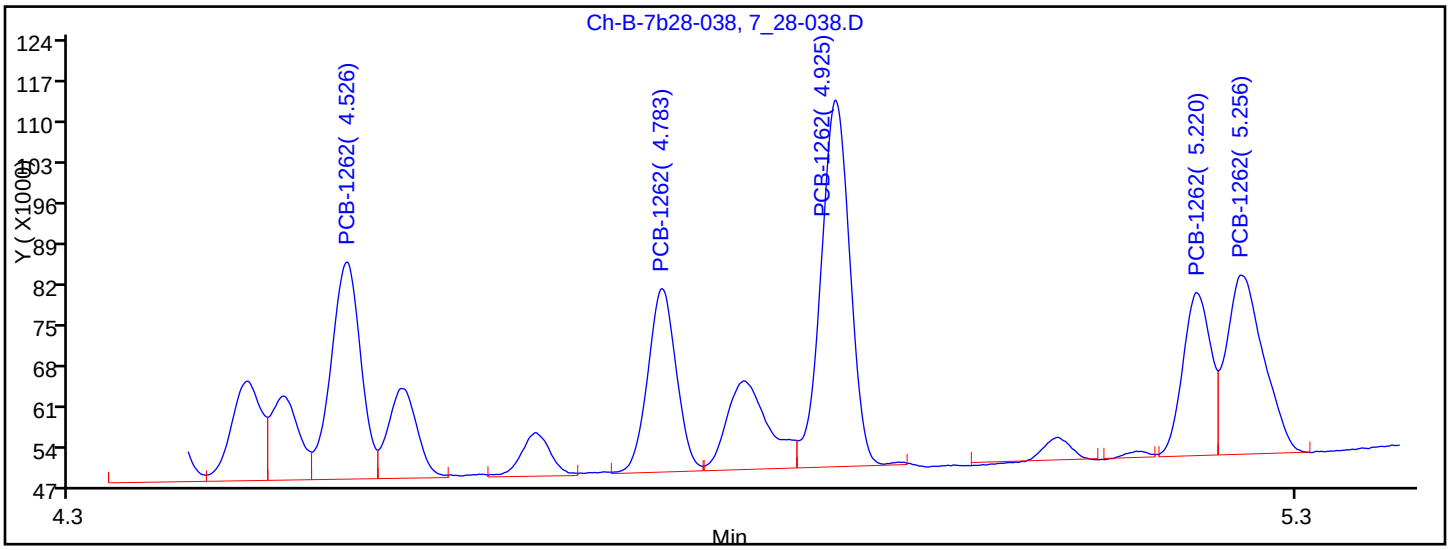
Column: Detector Ch-B-7b136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.526	Response = 55928
4.783	Response = 49130
4.925	Response = 99537
5.220	Response = 41021
5.256	Response = 60082



Manual Integration Results

4.526	Response = 63453	M
4.783	Response = 51373	M
4.925	Response = 104710	M
5.220	Response = 44964	M
5.256	Response = 65124	M

Reviewer: owenj, 28-Mar-2017 17:51:26

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	0.0890	0.0709	0.0666			Lin1	0.0005	0.0670							1.0000		0.9900
PCB-1242 Peak 2	0.0486	0.0265	0.0247			Lin1	0.0005	0.0246							1.0000		0.9900
PCB-1242 Peak 3	0.0322	0.0198	0.0190			Lin1	0.0003	0.0189							1.0000		0.9900
PCB-1242 Peak 4	0.0311	0.0237	0.0225			Lin1	0.0002	0.0226							1.0000		0.9900
PCB-1242 Peak 5	0.0414	0.0333	0.0321			Lin1	0.0002	0.0322							1.0000		0.9900
PCB-1268 Peak 1	0.1554	0.1075	0.1066			Lin1	0.0010	0.1060							1.0000		0.9900
PCB-1268 Peak 2	0.1449	0.0978	0.0989			Lin1	0.0009	0.0979							1.0000		0.9900
PCB-1268 Peak 3	0.1484	0.0820	0.0822			Lin1	0.0013	0.0811							1.0000		0.9900
PCB-1268 Peak 4	0.0630	0.0377	0.0366			Lin1	0.0005	0.0364							1.0000		0.9900
PCB-1268 Peak 5	0.3629	0.2657	0.2663			Lin1	0.0019	0.2647							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30054

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	45024	988715	3730845			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	24575	370241	1381712			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	16297	276130	1064743			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	15761	331038	1259668			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	20943	464108	1801893			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Lin1	78633	1500432	5975368			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Lin1	73321	1364645	5541707			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Lin1	75079	1144877	4607641			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Lin1	31871	526604	2051179			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Lin1	183632	3708198	14926402			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 18:03:31 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:20 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:28:23

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14011659	0.5000	0.5000	
2	1.049	1.049	0.000	25753742	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.037	3.038	-0.001	3730845	2.00	1.98	a
1	3.123	3.126	-0.003	1381712	2.00	1.98	a
1	3.484	3.486	-0.002	1064743	2.00	1.99	a
1	3.587	3.588	-0.001	1259668	2.00	1.98	a
1	3.792	3.793	-0.001	1801893	2.00	1.99	a
		Average of Peak Amounts =				1.99	
2	2.630	2.631	-0.001	6001083	2.00	1.98	
2	2.740	2.743	-0.003	2261171	2.00	1.99	
2	3.108	3.110	-0.002	2736567	2.00	1.98	
2	3.351	3.346	0.005	1921262	2.00	2.06	a
2	3.396	3.397	-0.001	1766998	2.00	1.99	a
		Average of Peak Amounts =				2.00	
						RPD = 0.77	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	5975368	2.00	2.00	a
1	5.822	5.823	0.000	5541707	2.00	2.01	a
1	6.107	6.108	-0.001	4607641	2.00	2.01	a
1	6.309	6.310	-0.001	2051179	2.00	2.00	a
1	6.757	6.758	-0.001	14926402	2.00	2.01	a
		Average of Peak Amounts =				2.00	
2	5.220	5.220	0.000	11132269	2.00	2.02	a
2	5.259	5.258	0.001	10240144	2.00	2.02	a
2	5.483	5.485	-0.002	8678923	2.00	2.02	a
2	5.664	5.665	-0.001	3712088	2.00	2.04	a
2	5.991	5.990	0.001	29910422	2.00	2.03	a
		Average of Peak Amounts =				2.03	
						RPD = 1.06	

Reagents:

42-68w/IS@2.0_00005 Amount Added: 0.25 Units: mL

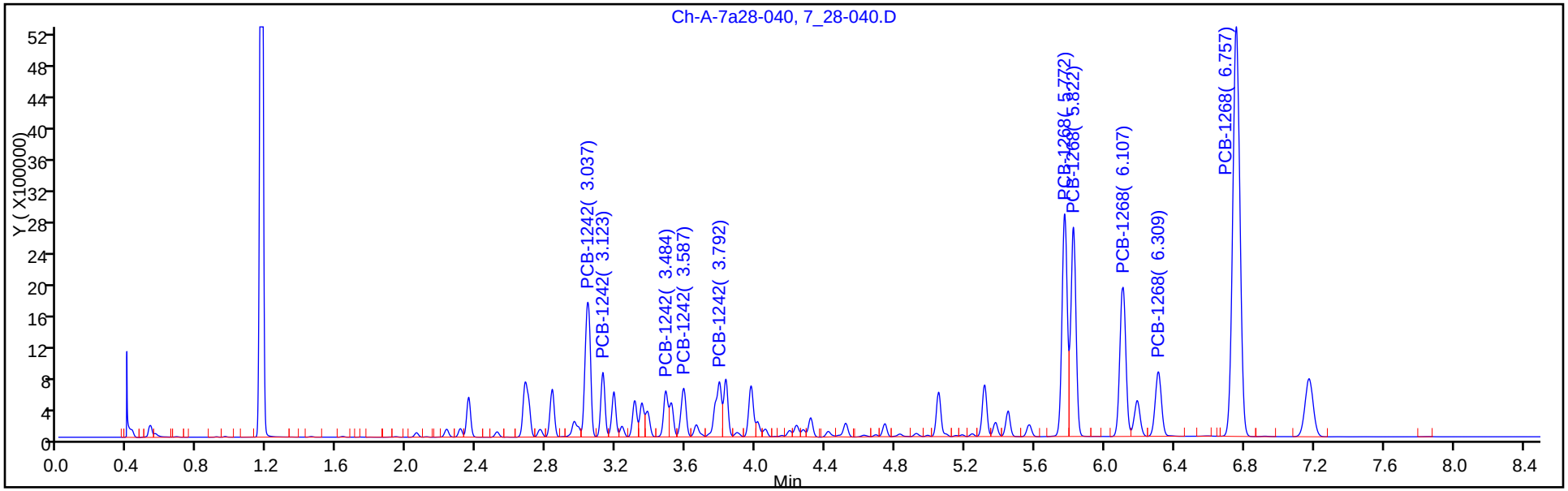
Report Date: 29-Mar-2017 10:55:20 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

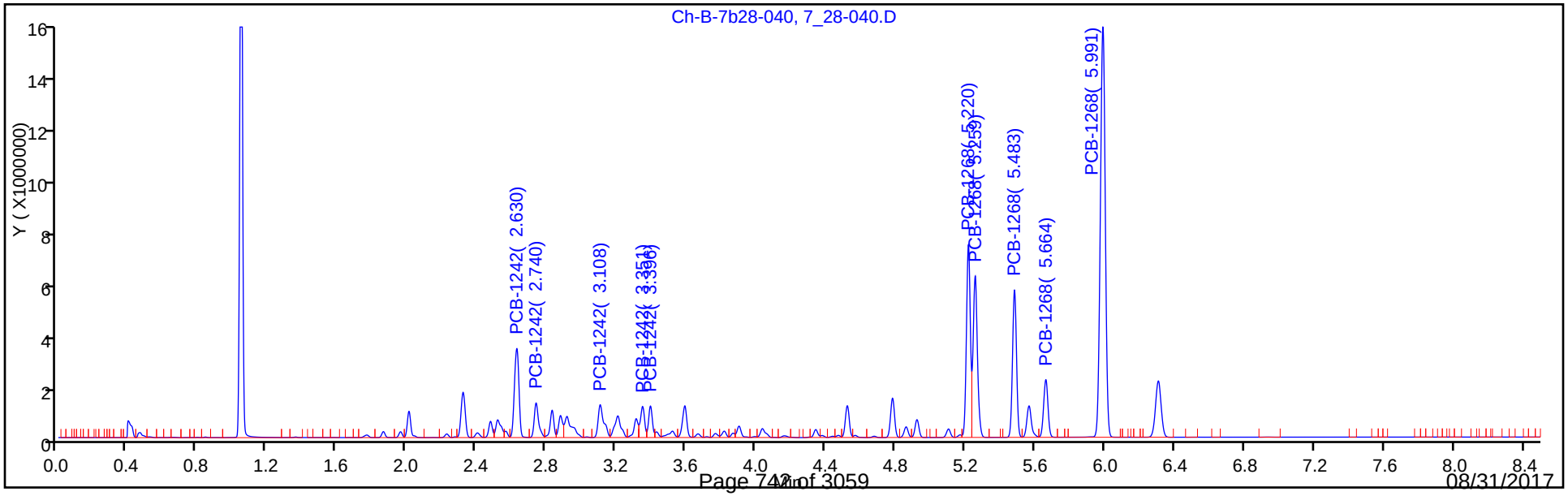
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D

Injection Date:	28-Mar-2017 18:03:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 18:19:33 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:24 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:26:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	13954704	0.5000	0.5000	
2	1.050	1.049	0.001	25885897	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.038	3.038	0.000	988715	0.5000	0.5214	
1	3.123	3.126	-0.004	370241	0.5000	0.5186	
1	3.484	3.486	-0.002	276130	0.5000	0.5082	
1	3.587	3.588	-0.001	331038	0.5000	0.5173	
1	3.792	3.793	-0.001	464108	0.5000	0.5102	
		Average of Peak Amounts =				0.5151	
2	2.630	2.631	-0.001	1589338	0.5000	0.5157	
2	2.741	2.743	-0.002	603453	0.5000	0.5096	
2	3.109	3.110	-0.001	728642	0.5000	0.5190	
2	3.353	3.346	0.006	447304	0.5000	0.4384	
2	3.397	3.397	0.000	464875	0.5000	0.5139	
		Average of Peak Amounts =				0.4993	
						RPD = 3.12	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	1500432	0.5000	0.4979	
1	5.823	5.823	0.000	1364645	0.5000	0.4899	
1	6.105	6.108	-0.003	1144877	0.5000	0.4894	
1	6.310	6.310	0.000	526604	0.5000	0.5037	
1	6.758	6.758	0.000	3708198	0.5000	0.4947	
		Average of Peak Amounts =				0.4951	
2	5.221	5.220	0.001	2662043	0.5000	0.4792	
2	5.259	5.258	0.001	2453043	0.5000	0.4804	
2	5.484	5.485	-0.001	2066721	0.5000	0.4772	
2	5.664	5.665	-0.001	901567	0.5000	0.4639	
2	5.991	5.990	0.001	6947966	0.5000	0.4651	
		Average of Peak Amounts =				0.4732	
						RPD = 4.53	

Reagents:

42-68w/IS@0.5_00008 Amount Added: 0.25 Units: mL

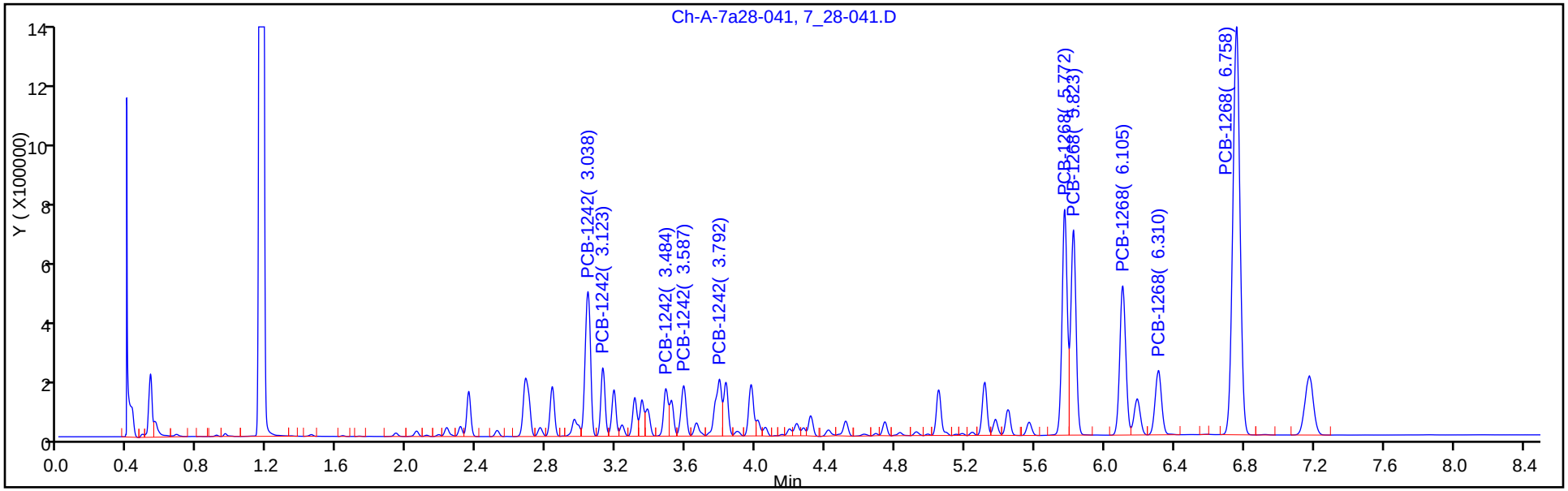
Report Date: 29-Mar-2017 10:55:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

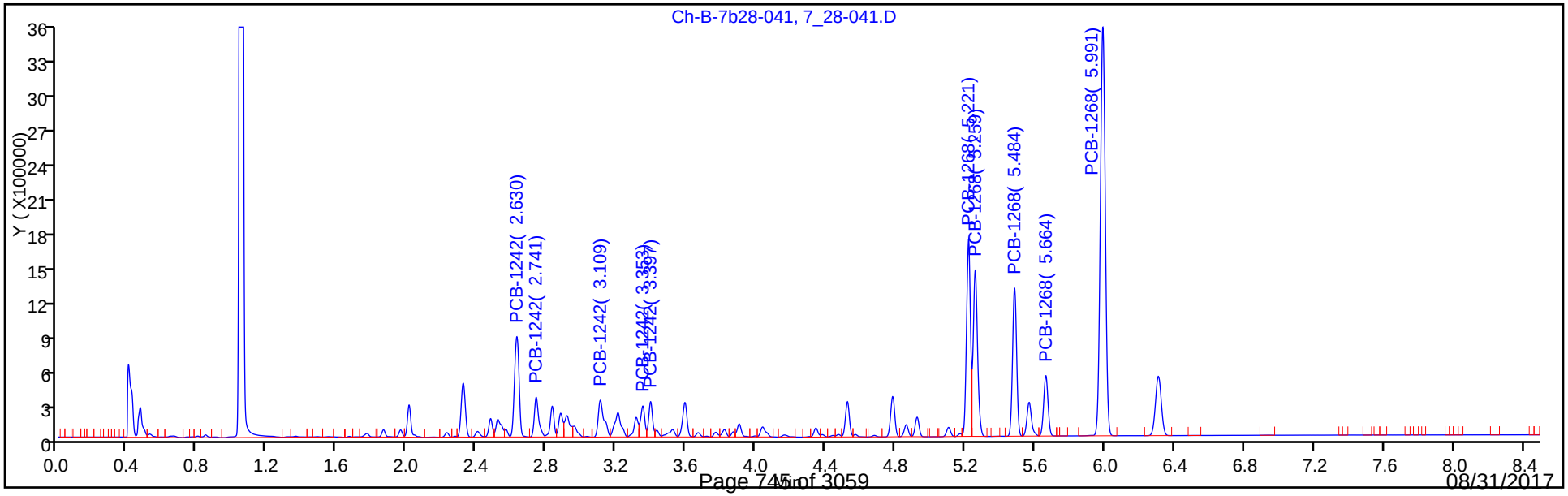
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D

Injection Date:	28-Mar-2017 18:19:33	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 18:35:31 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:28 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:38:32

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	12650899	0.5000	0.5000	
2	1.050	1.050	0.000	21899156	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	3.038	3.038	0.000	45024	0.0200	0.0194	M
1	3.126	3.126	0.000	24575	0.0200	0.0194	M
1	3.486	3.486	0.000	16297	0.0200	0.0198	M
1	3.588	3.588	0.000	15761	0.0200	0.0195	M
1	3.793	3.793	0.000	20943	0.0200	0.0197	M
		Average of Peak Amounts =				0.0195	
2	2.631	2.631	0.000	75287	0.0200	0.0195	
2	2.743	2.743	0.000	43441	0.0200	0.0197	
2	3.110	3.110	0.000	32179	0.0200	0.0194	
2	3.346	3.346	0.000	55935	0.0200	0.0219	
2	3.397	3.397	0.000	20956	0.0200	0.0196	
		Average of Peak Amounts =				0.0200	
						RPD = 2.43	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							M
1	5.773	5.773	0.000	78633	0.0200	0.0201	M
1	5.823	5.823	0.000	73321	0.0200	0.0203	M
1	6.108	6.108	0.000	75079	0.0200	0.0203	M
1	6.310	6.310	0.000	31871	0.0200	0.0199	M
1	6.758	6.758	0.000	183632	0.0200	0.0202	M
		Average of Peak Amounts =				0.0201	
2	5.220	5.220	0.000	105035	0.0200	0.0206	
2	5.258	5.258	0.000	92893	0.0200	0.0206	
2	5.485	5.485	0.000	84467	0.0200	0.0207	
2	5.665	5.665	0.000	88103	0.0200	0.0211	
2	5.990	5.990	0.000	341852	0.0200	0.0211	
		Average of Peak Amounts =				0.0208	
						RPD = 3.25	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00005 Amount Added: 0.25 Units: mL

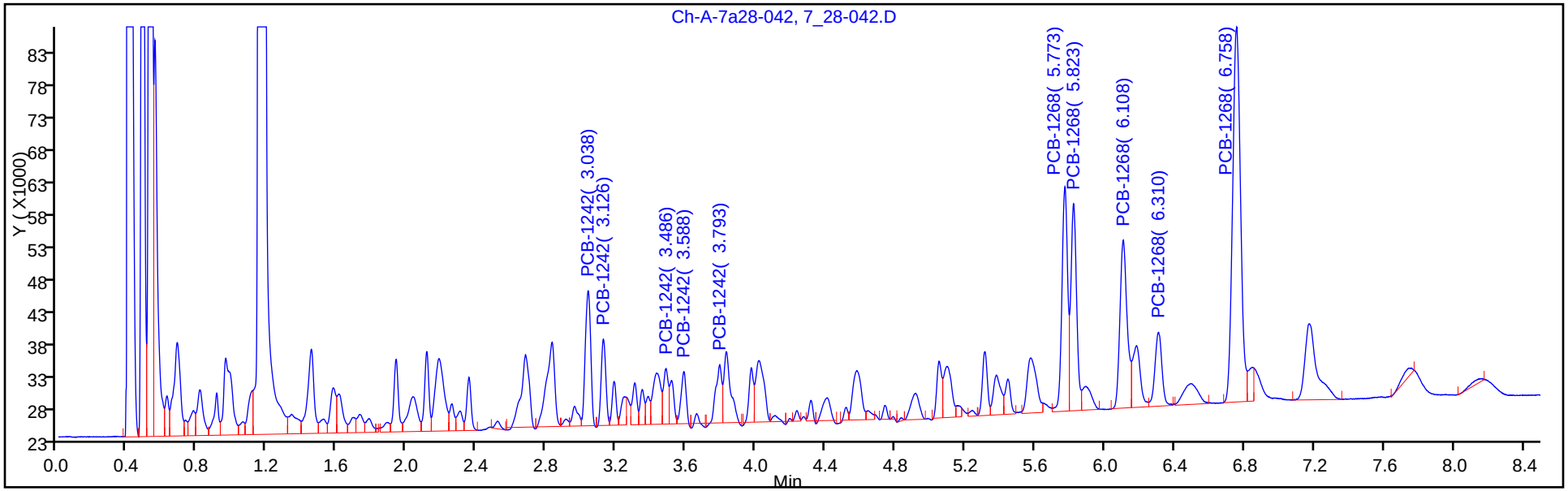
Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

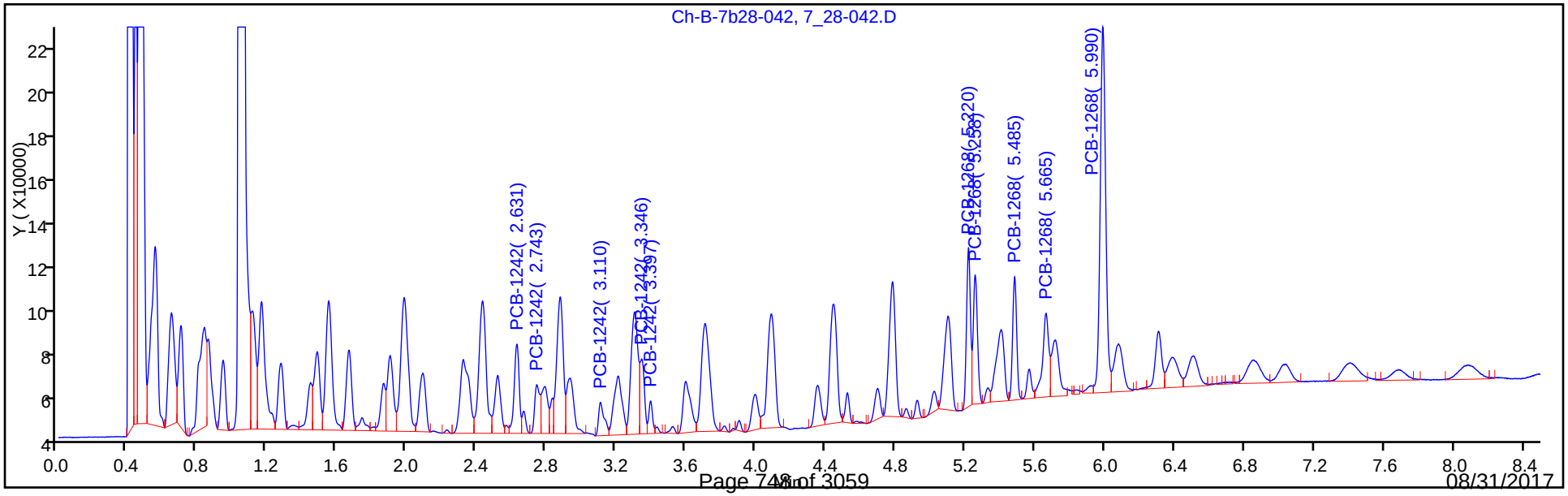
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date:	28-Mar-2017 18:35:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date: 28-Mar-2017 18:35:31 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

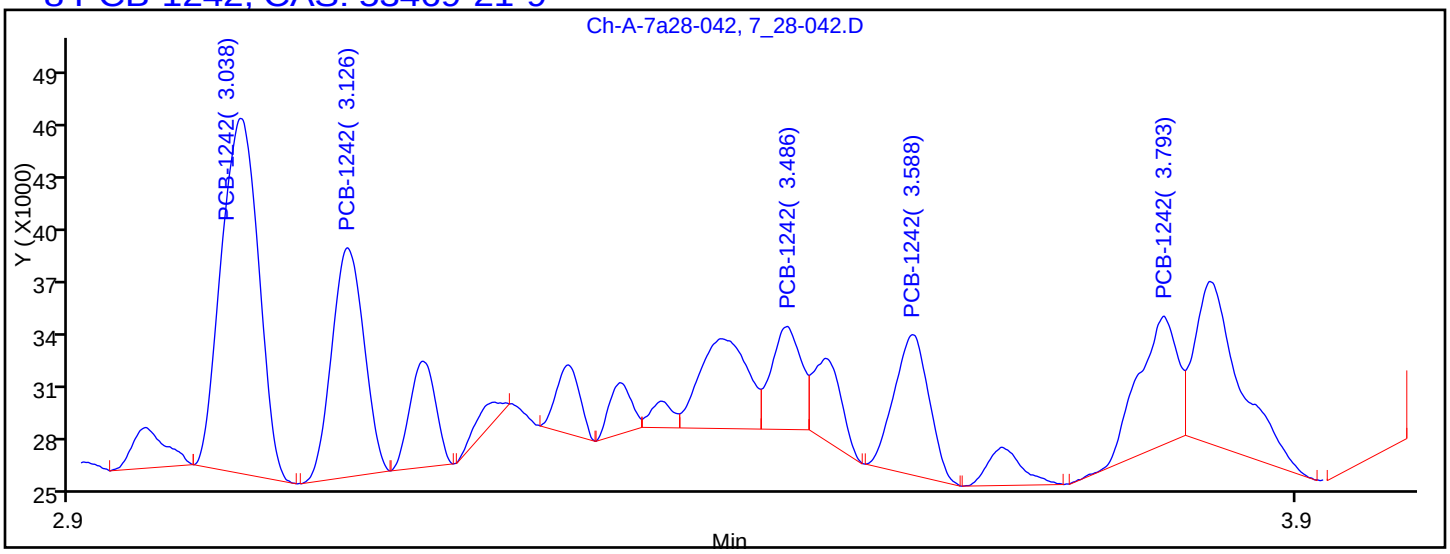
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 29

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

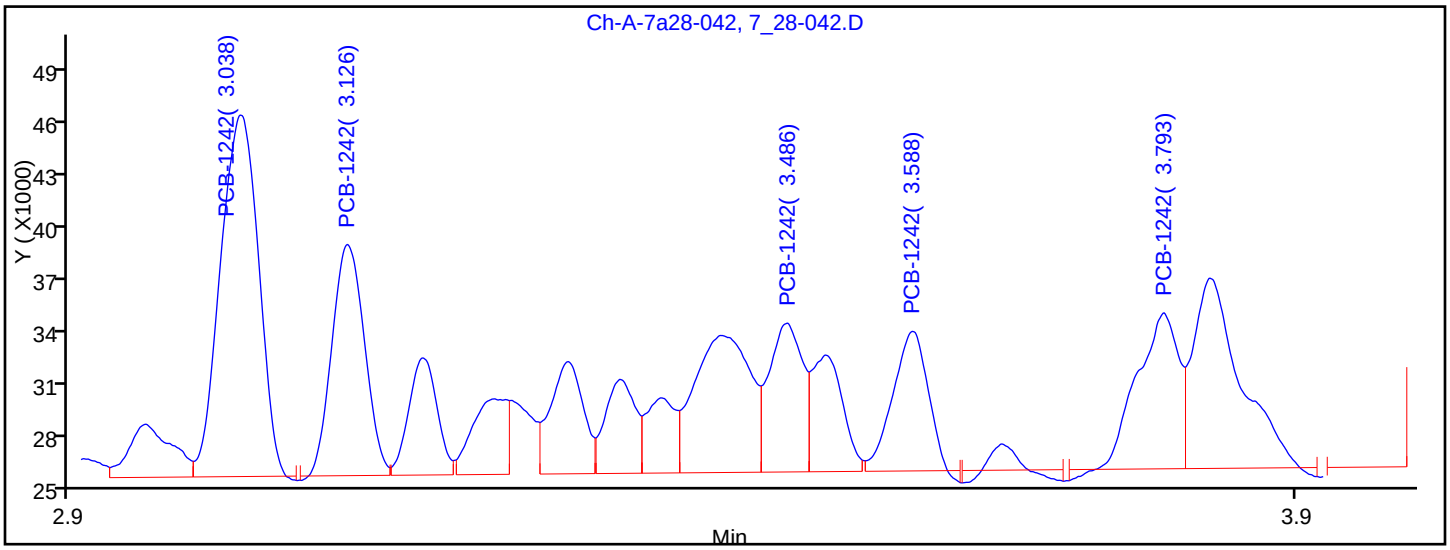
Column: Detector Ch-A-7A136

8 PCB-1242, CAS: 53469-21-9



Processing Integration Results

3.038	Response = 43410
3.126	Response = 24176
3.486	Response = 10116
3.588	Response = 15996
3.793	Response = 16854



Manual Integration Results

3.038	Response = 45024	M
3.126	Response = 24575	M
3.486	Response = 16297	M
3.588	Response = 15761	M
3.793	Response = 20943	M

Reviewer: owenj, 29-Mar-2017 10:26:23

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date: 28-Mar-2017 18:35:31 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

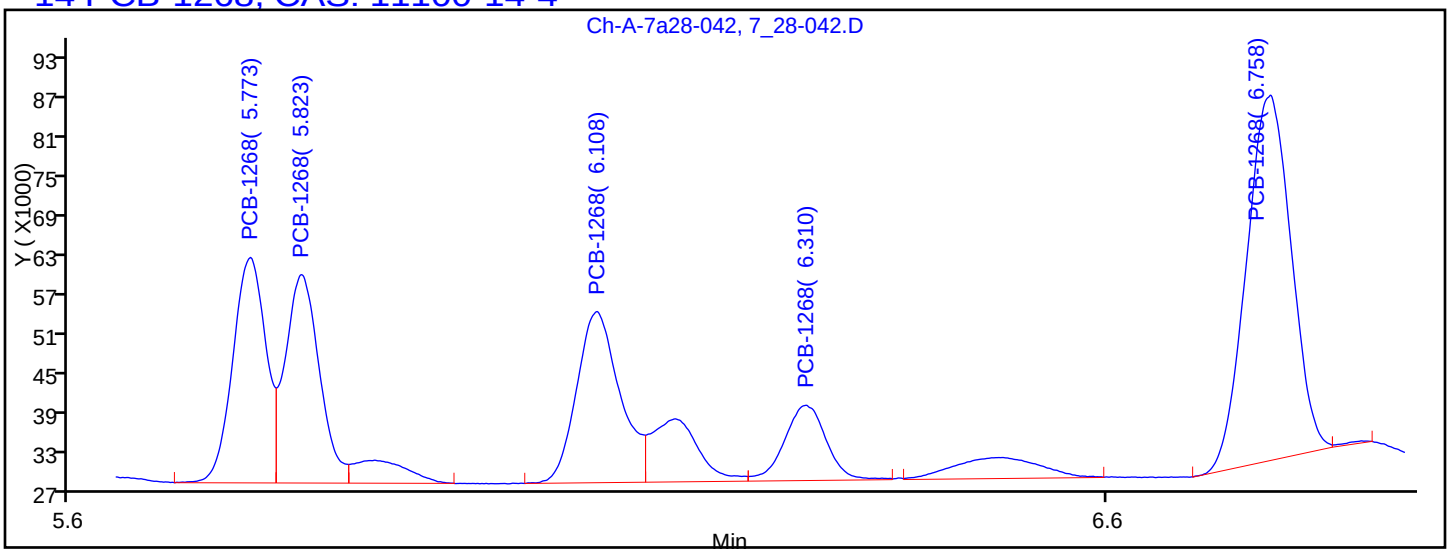
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 29

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

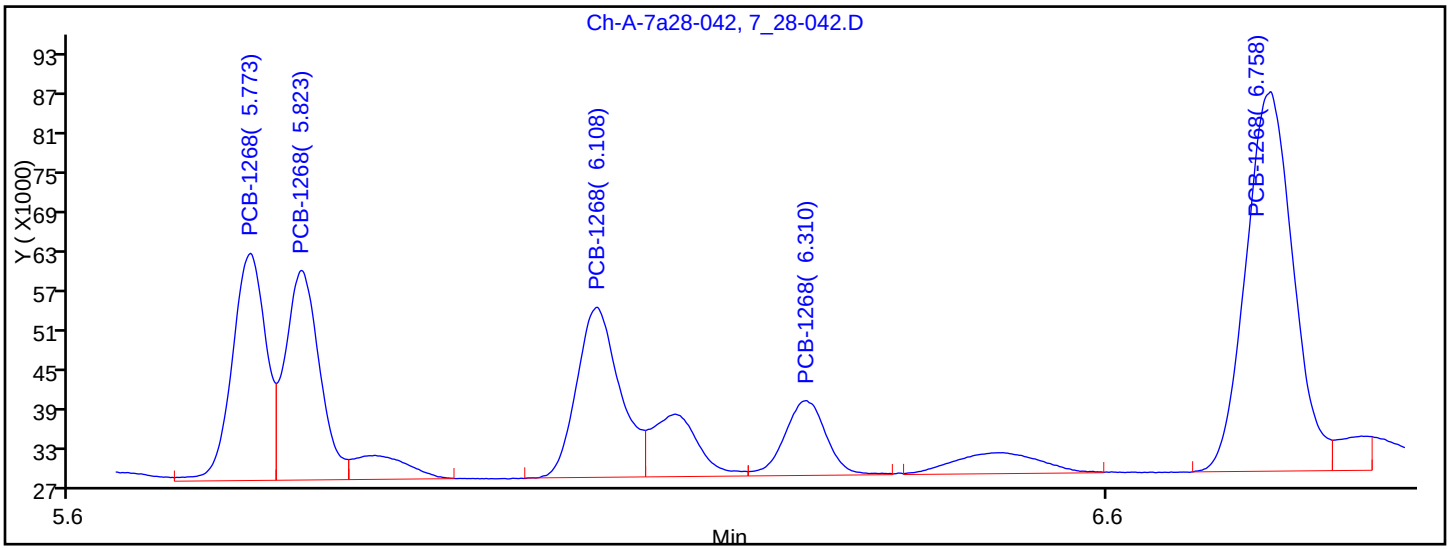
Column: Detector Ch-A-7A136

14 PCB-1268, CAS: 11100-14-4



Processing Integration Results

5.773	Response = 76082
5.823	Response = 72150
6.108	Response = 75559
6.310	Response = 32088
6.758	Response = 166513



Manual Integration Results

5.773	Response = 78633	M
5.823	Response = 73321	M
6.108	Response = 75079	M
6.310	Response = 31871	M
6.758	Response = 183632	M

Reviewer: owenj, 29-Mar-2017 10:26:17

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1242 Peak 1	0.0859	0.0614	0.0583			Lin1	0.0006	0.0584							1.0000		0.9900
PCB-1242 Peak 2	0.0496	0.0233	0.0219			Lin1	0.0006	0.0218							1.0000		0.9900
PCB-1242 Peak 3	0.0367	0.0281	0.0266			Lin1	0.0002	0.0267							1.0000		0.9900
PCB-1242 Peak 4	0.0639	0.0173	0.0187			Lin1	0.0009	0.0177							0.9960		0.9900
PCB-1242 Peak 5	0.0239	0.0180	0.0172			Lin1	0.0001	0.0172							1.0000		0.9900
PCB-1268 Peak 1	0.1199	0.1028	0.1081			Lin1	0.0002	0.1069							1.0000		0.9900
PCB-1268 Peak 2	0.1060	0.0948	0.0994			Lin1	0.0001	0.0984							1.0000		0.9900
PCB-1268 Peak 3	0.0964	0.0798	0.0842			Lin1	0.0002	0.0832							0.9990		0.9900
PCB-1268 Peak 4	0.1006	0.0348	0.0360			Lin1	0.0013	0.0348							0.9990		0.9900
PCB-1268 Peak 5	0.3903	0.2684	0.2904			Lin1	0.0018	0.2846							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 18:03 Calibration End Date: 03/28/2017 18:35 Calibration ID: 30055

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/29	7_28-042.D
Level 2	IC 480-349118/28	7_28-041.D
Level 3	IC 480-349118/27	7_28-040.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	BNB	Lin1	75287	1589338	6001083			0.0200	0.500	2.00		
PCB-1242 Peak 2	BNB	Lin1	43441	603453	2261171			0.0200	0.500	2.00		
PCB-1242 Peak 3	BNB	Lin1	32179	728642	2736567			0.0200	0.500	2.00		
PCB-1242 Peak 4	BNB	Lin1	55935	447304	1921262			0.0200	0.500	2.00		
PCB-1242 Peak 5	BNB	Lin1	20956	464875	1766998			0.0200	0.500	2.00		
PCB-1268 Peak 1	BNB	Lin1	105035	2662043	11132269			0.0200	0.500	2.00		
PCB-1268 Peak 2	BNB	Lin1	92893	2453043	10240144			0.0200	0.500	2.00		
PCB-1268 Peak 3	BNB	Lin1	84467	2066721	8678923			0.0200	0.500	2.00		
PCB-1268 Peak 4	BNB	Lin1	88103	901567	3712088			0.0200	0.500	2.00		
PCB-1268 Peak 5	BNB	Lin1	341852	6947966	29910422			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 18:03:31 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:20 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 28-Mar-2017 18:28:23

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14011659	0.5000	0.5000	
2	1.049	1.049	0.000	25753742	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.037	3.038	-0.001	3730845	2.00	1.98	a
1	3.123	3.126	-0.003	1381712	2.00	1.98	a
1	3.484	3.486	-0.002	1064743	2.00	1.99	a
1	3.587	3.588	-0.001	1259668	2.00	1.98	a
1	3.792	3.793	-0.001	1801893	2.00	1.99	a
		Average of Peak Amounts =				1.99	
2	2.630	2.631	-0.001	6001083	2.00	1.98	
2	2.740	2.743	-0.003	2261171	2.00	1.99	
2	3.108	3.110	-0.002	2736567	2.00	1.98	
2	3.351	3.346	0.005	1921262	2.00	2.06	a
2	3.396	3.397	-0.001	1766998	2.00	1.99	a
		Average of Peak Amounts =				2.00	
						RPD = 0.77	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	5975368	2.00	2.00	a
1	5.822	5.823	0.000	5541707	2.00	2.01	a
1	6.107	6.108	-0.001	4607641	2.00	2.01	a
1	6.309	6.310	-0.001	2051179	2.00	2.00	a
1	6.757	6.758	-0.001	14926402	2.00	2.01	a
		Average of Peak Amounts =				2.00	
2	5.220	5.220	0.000	11132269	2.00	2.02	a
2	5.259	5.258	0.001	10240144	2.00	2.02	a
2	5.483	5.485	-0.002	8678923	2.00	2.02	a
2	5.664	5.665	-0.001	3712088	2.00	2.04	a
2	5.991	5.990	0.001	29910422	2.00	2.03	a
		Average of Peak Amounts =				2.03	
						RPD = 1.06	

Reagents:

42-68w/IS@2.0_00005 Amount Added: 0.25 Units: mL

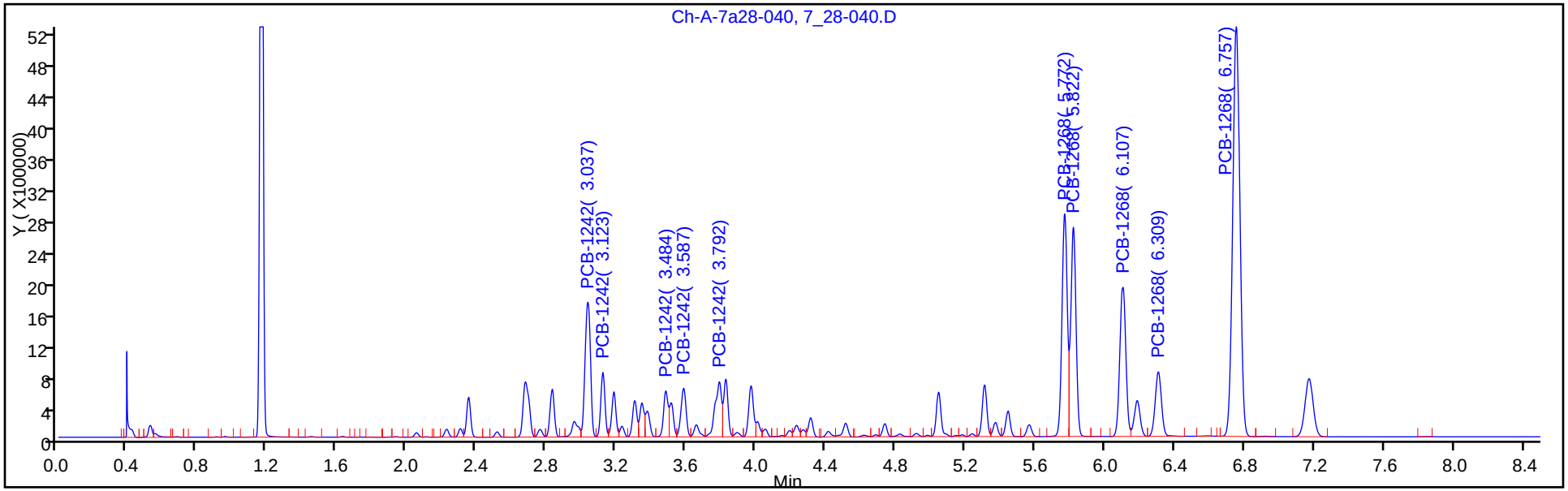
Report Date: 29-Mar-2017 10:55:21 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

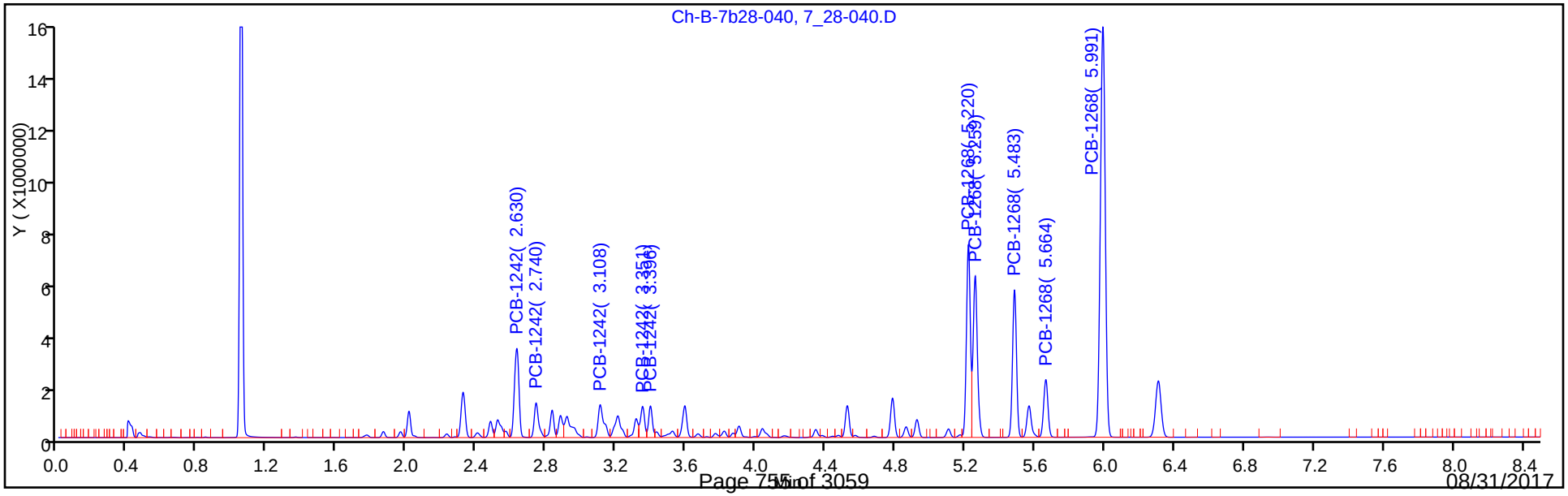
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-040.D

Injection Date:	28-Mar-2017 18:03:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	27
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 18:19:33 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:24 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:26:02

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	13954704	0.5000	0.5000	
2	1.050	1.049	0.001	25885897	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	3.038	3.038	0.000	988715	0.5000	0.5214	
1	3.123	3.126	-0.004	370241	0.5000	0.5186	
1	3.484	3.486	-0.002	276130	0.5000	0.5082	
1	3.587	3.588	-0.001	331038	0.5000	0.5173	
1	3.792	3.793	-0.001	464108	0.5000	0.5102	
		Average of Peak Amounts =				0.5151	
2	2.630	2.631	-0.001	1589338	0.5000	0.5157	
2	2.741	2.743	-0.002	603453	0.5000	0.5096	
2	3.109	3.110	-0.001	728642	0.5000	0.5190	
2	3.353	3.346	0.006	447304	0.5000	0.4384	
2	3.397	3.397	0.000	464875	0.5000	0.5139	
		Average of Peak Amounts =				0.4993	
						RPD = 3.12	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.772	5.773	-0.001	1500432	0.5000	0.4979	
1	5.823	5.823	0.000	1364645	0.5000	0.4899	
1	6.105	6.108	-0.003	1144877	0.5000	0.4894	
1	6.310	6.310	0.000	526604	0.5000	0.5037	
1	6.758	6.758	0.000	3708198	0.5000	0.4947	
		Average of Peak Amounts =				0.4951	
2	5.221	5.220	0.001	2662043	0.5000	0.4792	
2	5.259	5.258	0.001	2453043	0.5000	0.4804	
2	5.484	5.485	-0.001	2066721	0.5000	0.4772	
2	5.664	5.665	-0.001	901567	0.5000	0.4639	
2	5.991	5.990	0.001	6947966	0.5000	0.4651	
		Average of Peak Amounts =				0.4732	
						RPD = 4.53	

Reagents:

42-68w/IS@0.5_00008 Amount Added: 0.25 Units: mL

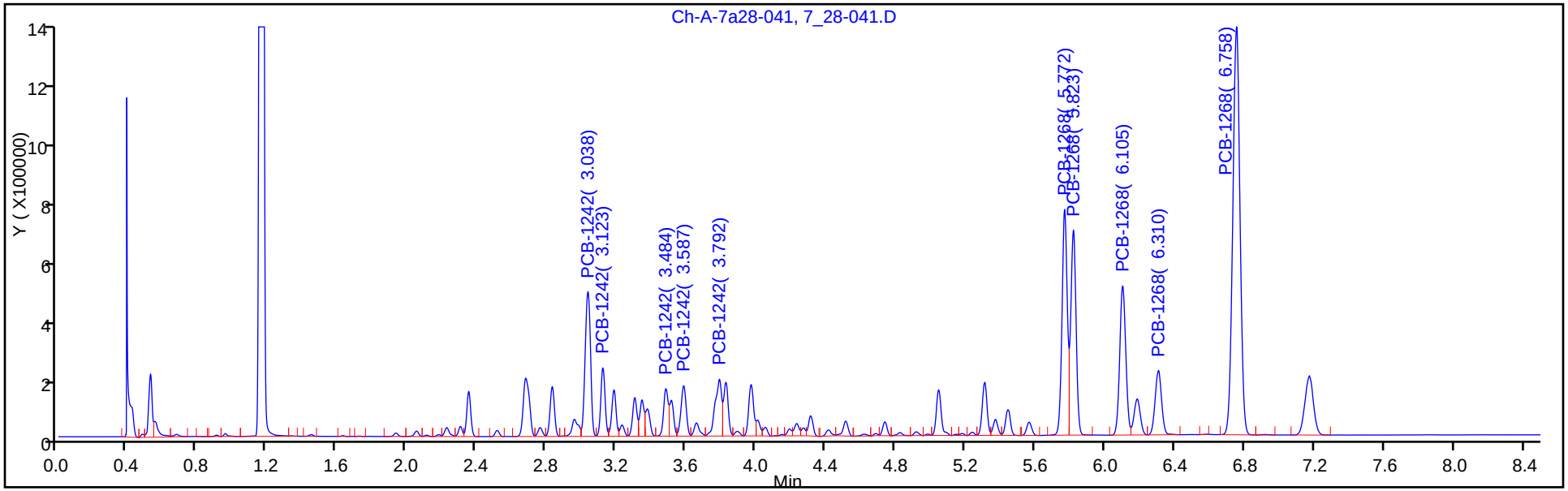
Report Date: 29-Mar-2017 10:55:25 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

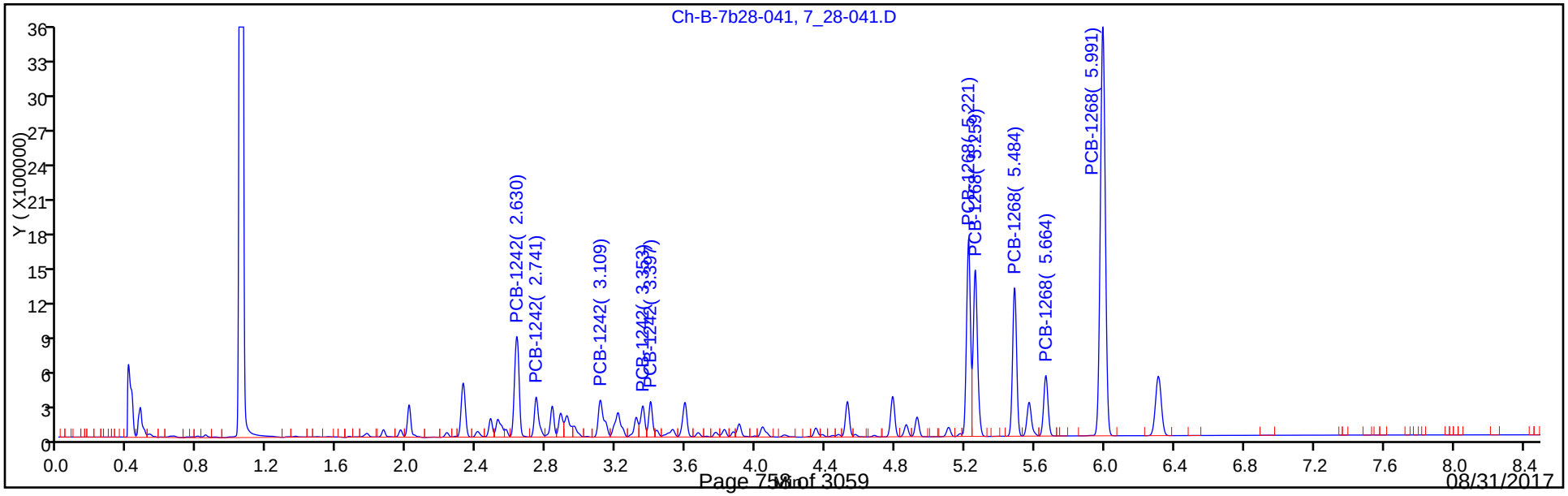
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-041.D

Injection Date:	28-Mar-2017 18:19:33	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	28
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 18:35:31 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:28 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:38:32

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	12650899	0.5000	0.5000	
2	1.050	1.050	0.000	21899156	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							M
1	3.038	3.038	0.000	45024	0.0200	0.0194	M
1	3.126	3.126	0.000	24575	0.0200	0.0194	M
1	3.486	3.486	0.000	16297	0.0200	0.0198	M
1	3.588	3.588	0.000	15761	0.0200	0.0195	M
1	3.793	3.793	0.000	20943	0.0200	0.0197	M
		Average of Peak Amounts =				0.0195	
2	2.631	2.631	0.000	75287	0.0200	0.0195	
2	2.743	2.743	0.000	43441	0.0200	0.0197	
2	3.110	3.110	0.000	32179	0.0200	0.0194	
2	3.346	3.346	0.000	55935	0.0200	0.0219	
2	3.397	3.397	0.000	20956	0.0200	0.0196	
		Average of Peak Amounts =				0.0200	
						RPD = 2.43	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							M
1	5.773	5.773	0.000	78633	0.0200	0.0201	M
1	5.823	5.823	0.000	73321	0.0200	0.0203	M
1	6.108	6.108	0.000	75079	0.0200	0.0203	M
1	6.310	6.310	0.000	31871	0.0200	0.0199	M
1	6.758	6.758	0.000	183632	0.0200	0.0202	M
		Average of Peak Amounts =				0.0201	
2	5.220	5.220	0.000	105035	0.0200	0.0206	
2	5.258	5.258	0.000	92893	0.0200	0.0206	
2	5.485	5.485	0.000	84467	0.0200	0.0207	
2	5.665	5.665	0.000	88103	0.0200	0.0211	
2	5.990	5.990	0.000	341852	0.0200	0.0211	
		Average of Peak Amounts =				0.0208	
						RPD = 3.25	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

42-68w/IS@.02_00005 Amount Added: 0.25 Units: mL

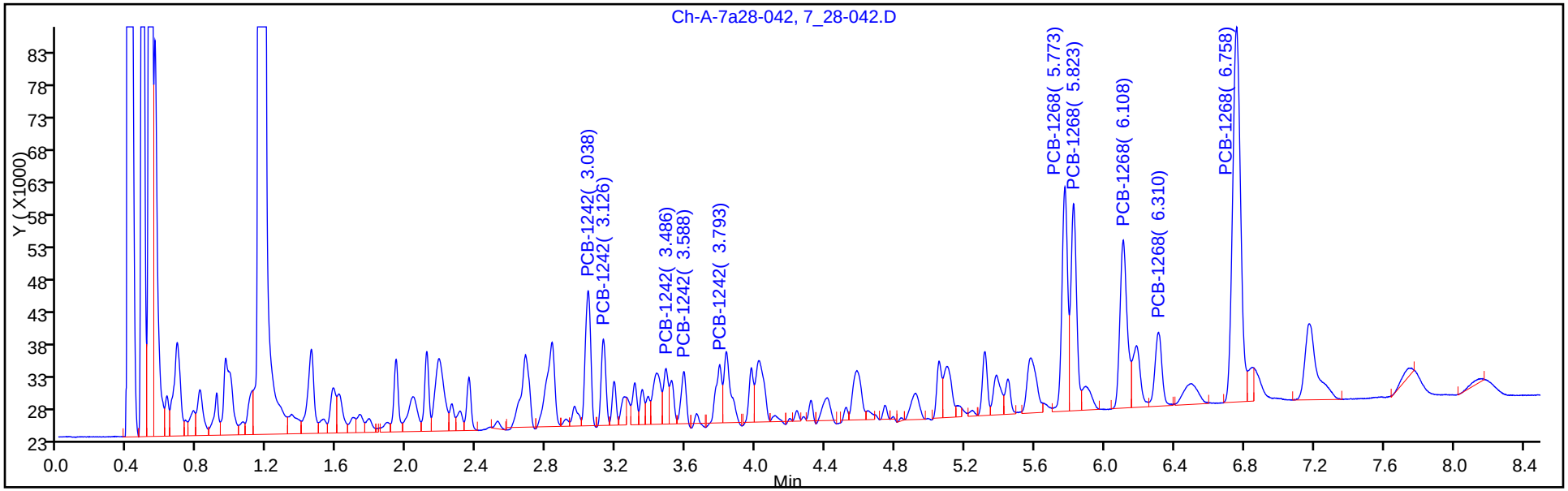
Report Date: 29-Mar-2017 10:55:28 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

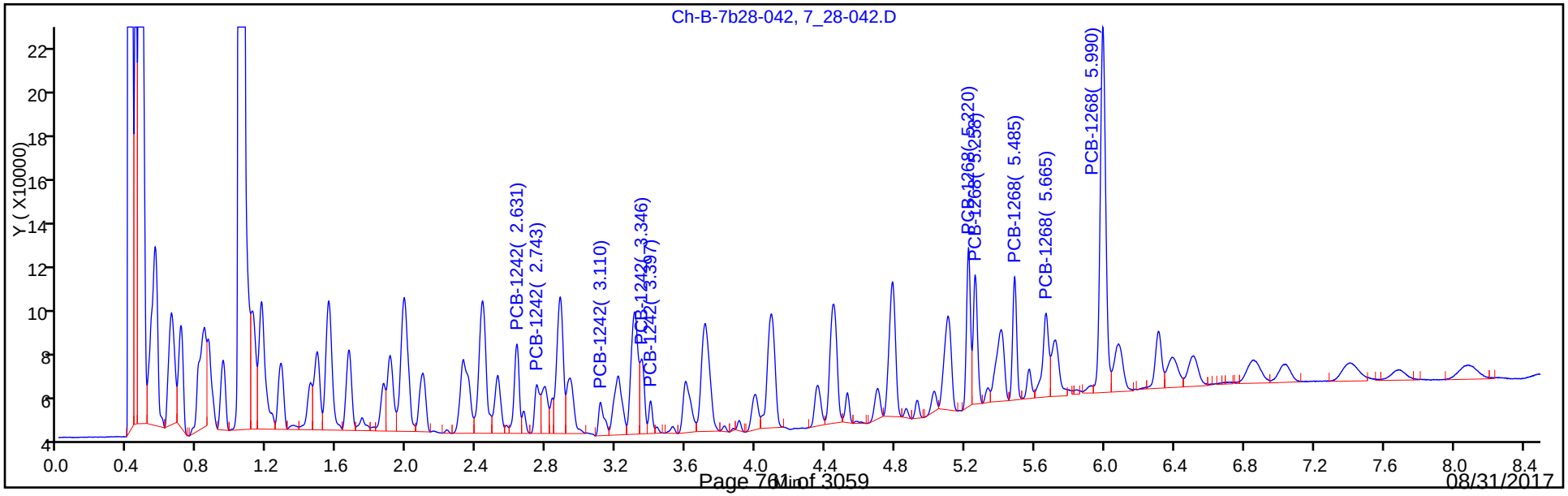
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-042.D

Injection Date:	28-Mar-2017 18:35:31	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	29
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	0.0619	0.0435	0.0433			Lin1	0.0004	0.0430							1.0000		0.9900
PCB-1248 Peak 2	0.0466	0.0335	0.0357			Lin1	0.0002	0.0351							0.9990		0.9900
PCB-1248 Peak 3	0.0713	0.0531	0.0594			Lin1	0.0002	0.0580							0.9980		0.9900
PCB-1248 Peak 4	0.0550	0.0388	0.0372			Lin1	0.0004	0.0372							1.0000		0.9900
PCB-1248 Peak 5	0.0453	0.0326	0.0371			Lin1	0.0001	0.0361							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30060

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	34899	623314	2073540			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Lin1	26245	479840	1710687			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Lin1	40194	762025	2845233			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Lin1	31030	556648	1779509			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Lin1	25536	468315	1776016			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 19:07:11 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:38 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:46:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	11971661	0.5000	0.5000	
2	1.050	1.050	0.000	21010342	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.486	3.486	0.000	2073540	2.00	2.00	a
1	3.588	3.587	0.001	1710687	2.00	2.03	a
1	3.793	3.793	0.000	2845233	2.00	2.04	a
1	3.830	3.830	0.000	1779509	2.00	1.99	a
1	3.973	3.973	-0.001	1776016	2.00	2.05	a
		Average of Peak Amounts =				2.02	
2	3.108	3.108	0.000	2387904	2.00	2.02	
2	3.210	3.209	0.001	2152906	2.00	1.98	
2	3.353	3.351	0.001	2199586	2.00	1.95	a
2	3.398	3.397	0.001	2203362	2.00	2.03	a
2	3.593	3.593	0.000	2534395	2.00	2.02	
		Average of Peak Amounts =				2.00	
						RPD = 1.12	

Reagents:

1248w/IS@ 2.0_00005 Amount Added: 0.25 Units: mL

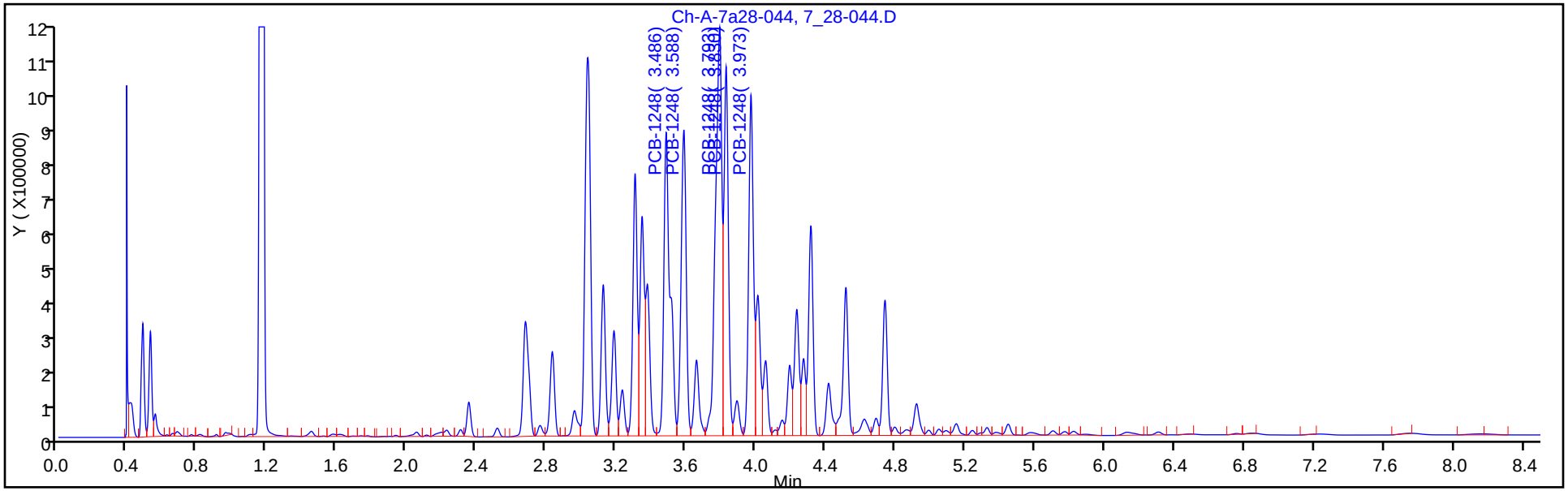
Report Date: 29-Mar-2017 10:55:38 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

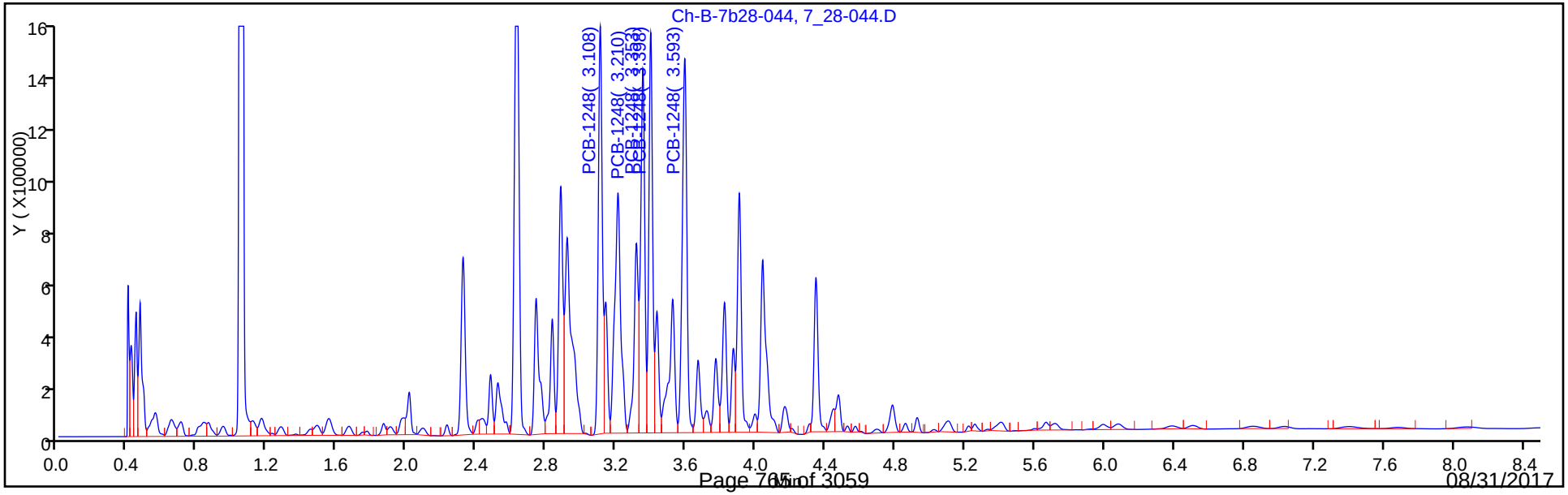
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D

Injection Date:	28-Mar-2017 19:07:11	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 19:23:08 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:42 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14344670	0.5000	0.5000	
2	1.049	1.050	-0.001	24914143	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.485	3.486	-0.001	623314	0.5000	0.4962	
1	3.587	3.587	0.000	479840	0.5000	0.4706	
1	3.793	3.793	0.000	762025	0.5000	0.4544	
1	3.830	3.830	0.000	556648	0.5000	0.5118	
1	3.973	3.973	0.000	468315	0.5000	0.4484	
		Average of Peak Amounts =				0.4763	
2	3.108	3.108	0.000	678573	0.5000	0.4799	
2	3.209	3.209	0.000	674320	0.5000	0.5171	
2	3.353	3.351	0.001	756594	0.5000	0.5558	
2	3.398	3.397	0.001	605917	0.5000	0.4677	
2	3.593	3.593	0.000	714562	0.5000	0.4772	
		Average of Peak Amounts =				0.4995	
						RPD = 4.77	

Reagents:

1248w/IS@ 0.5_00008 Amount Added: 0.25 Units: mL

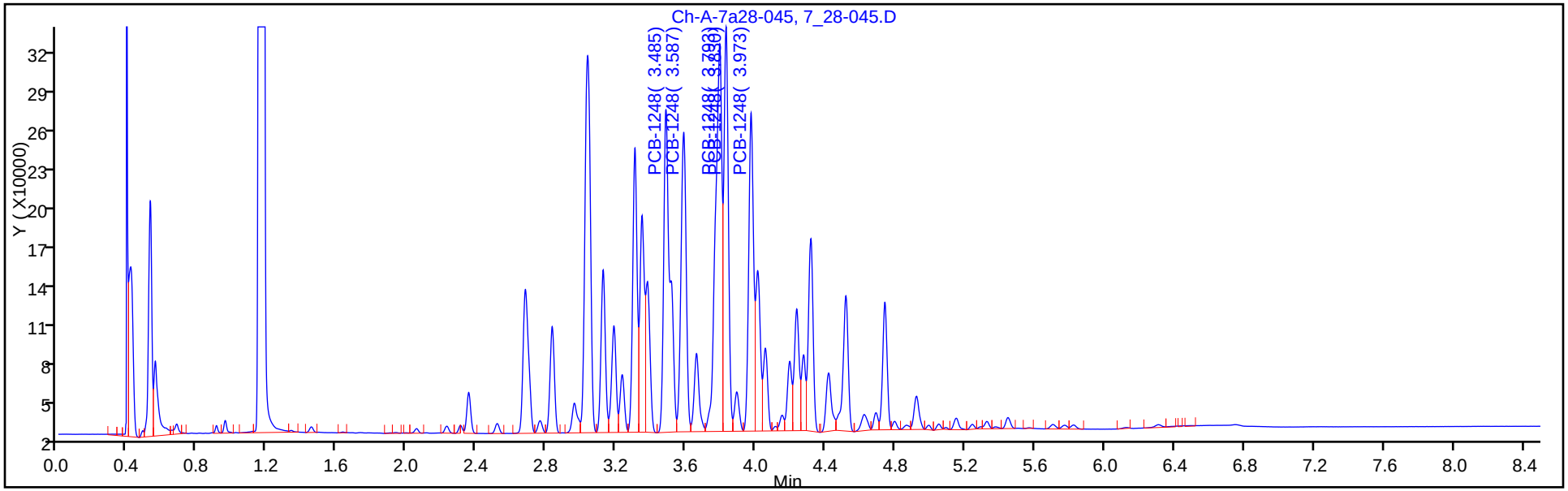
Report Date: 29-Mar-2017 10:55:43 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

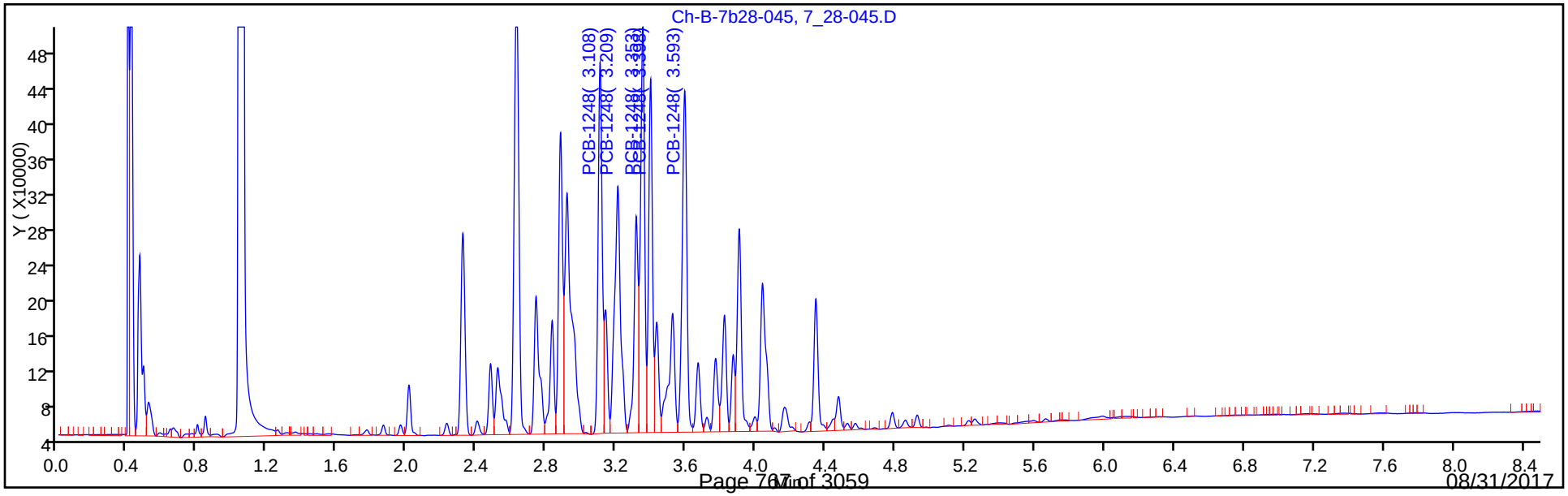
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D

Injection Date:	28-Mar-2017 19:23:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 19:39:13 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:51:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14092234	0.5000	0.5000	
2	1.049	1.049	0.000	25348531	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	3.486	3.486	0.000	34899	0.0200	0.0201	M
1	3.587	3.587	0.000	26245	0.0200	0.0209	M
1	3.793	3.793	0.000	40194	0.0200	0.0214	M
1	3.830	3.830	0.000	31030	0.0200	0.0196	M
1	3.973	3.973	0.000	25536	0.0200	0.0216	M
		Average of Peak Amounts =				0.0207	
2	3.108	3.108	0.000	37011	0.0200	0.0206	M
2	3.209	3.209	0.000	37469	0.0200	0.0195	M
2	3.351	3.351	0.000	41233	0.0200	0.0183	M
2	3.397	3.397	0.000	33226	0.0200	0.0210	M
2	3.593	3.593	0.000	38340	0.0200	0.0207	M
		Average of Peak Amounts =				0.0200	
						RPD = 3.46	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00005 Amount Added: 0.25 Units: mL

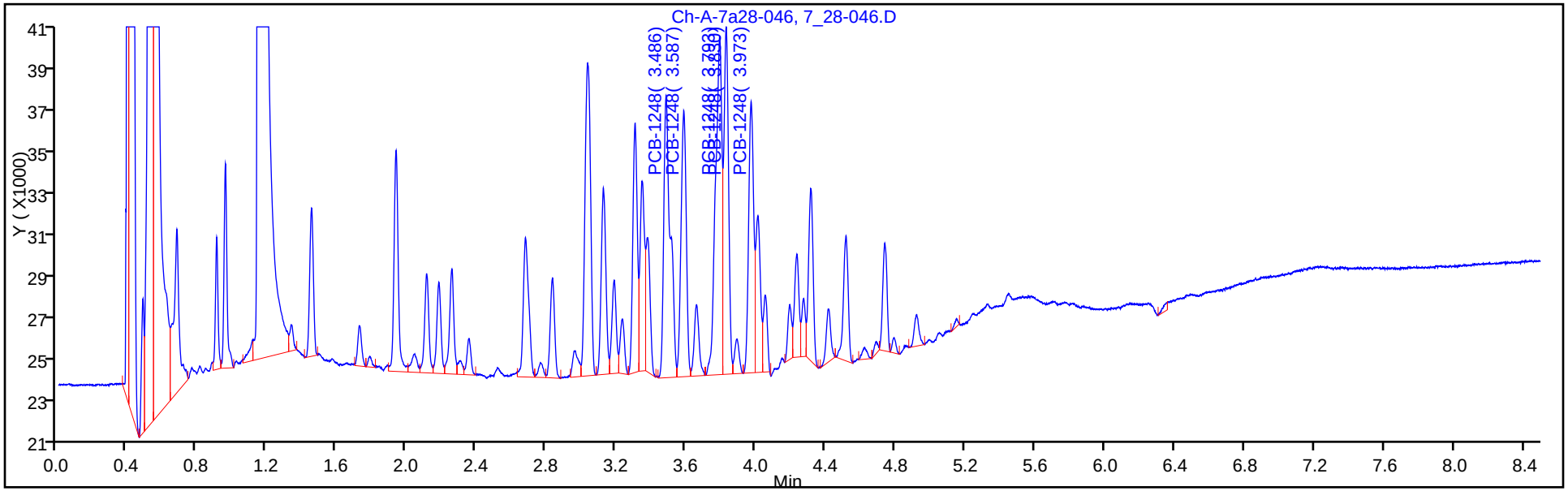
Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

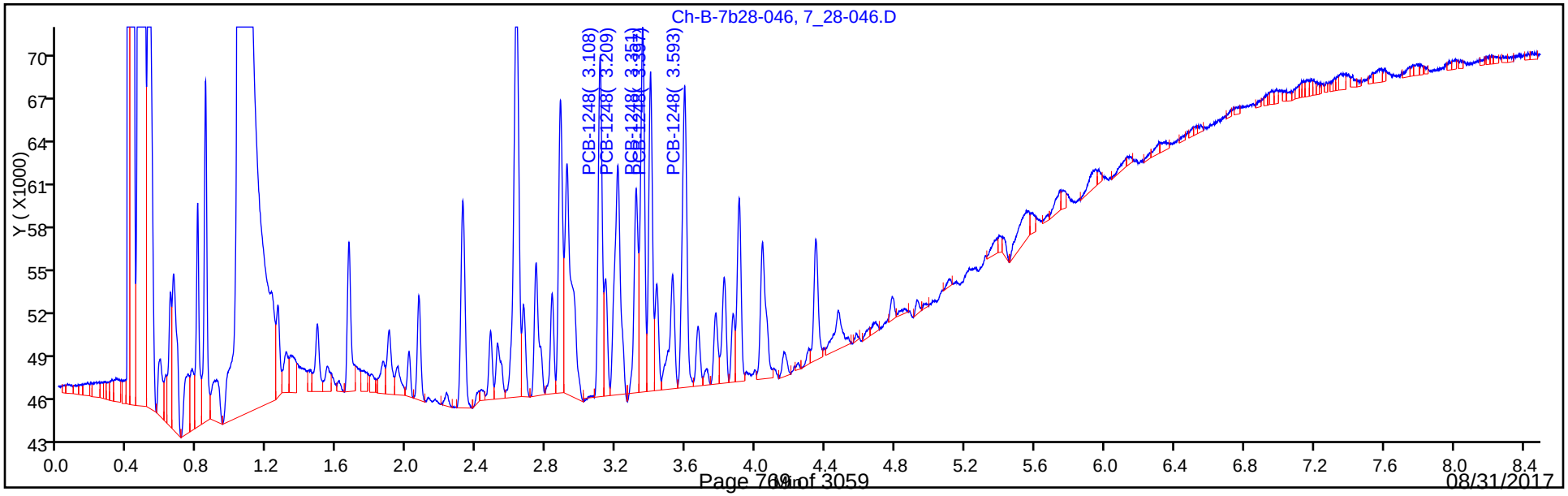
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date:	28-Mar-2017 19:39:13	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date: 28-Mar-2017 19:39:13 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

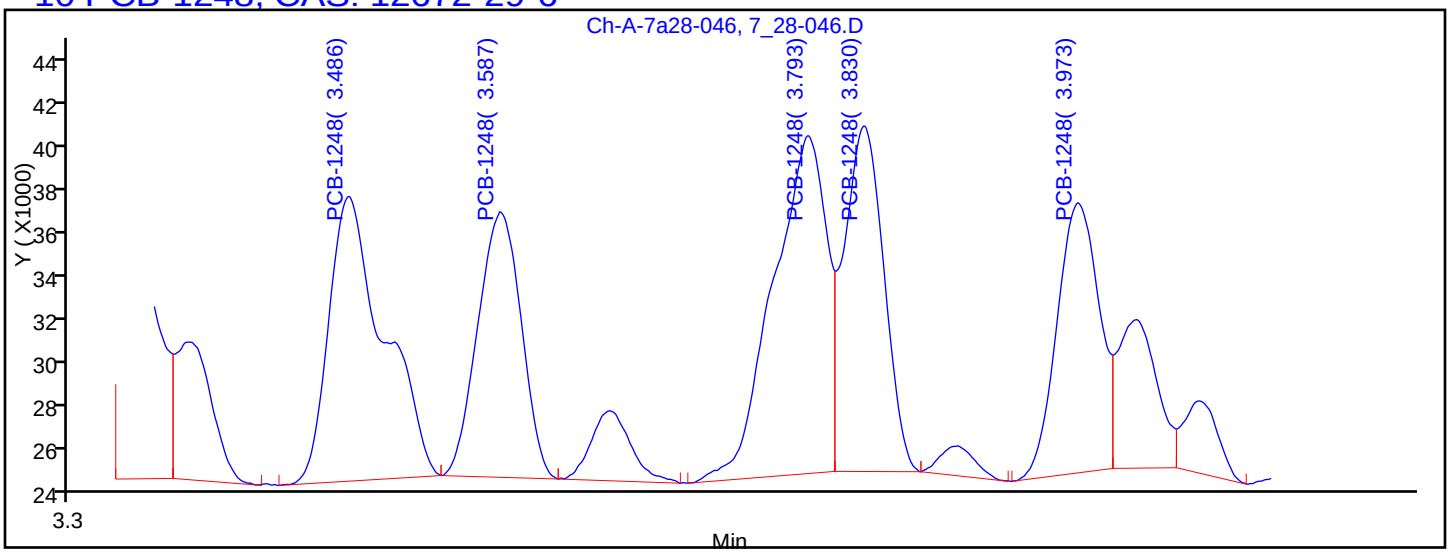
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 33

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

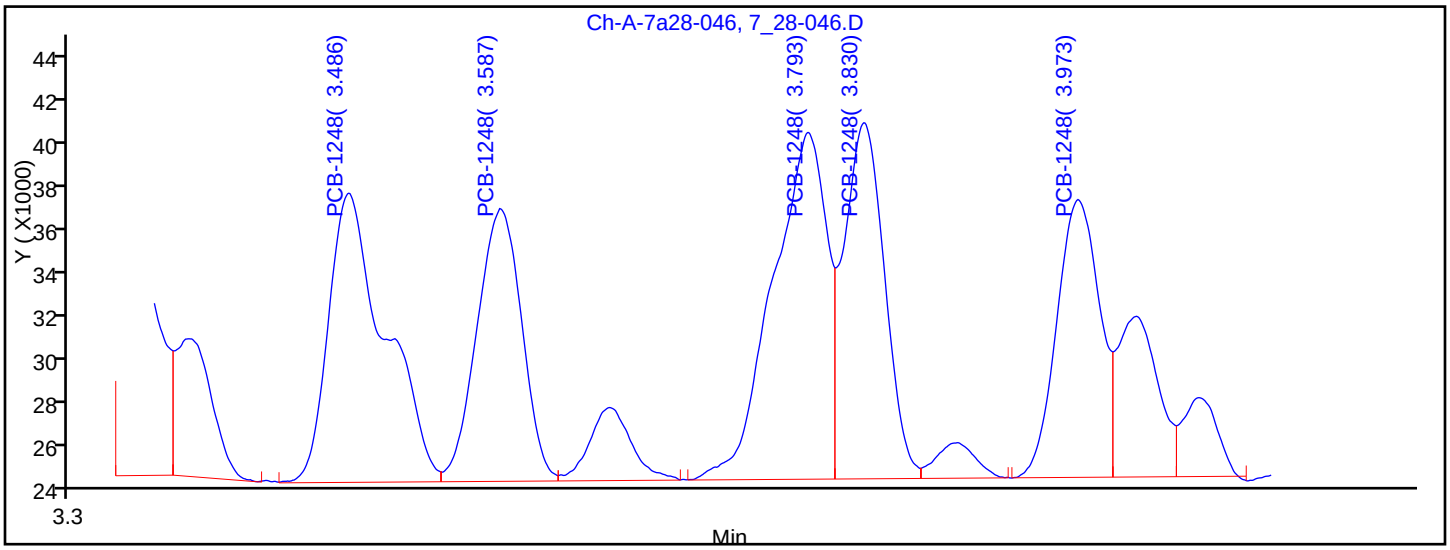
Column: Detector Ch-A-7A136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.486	Response = 33372
3.587	Response = 24654
3.793	Response = 38689
3.830	Response = 29365
3.973	Response = 24436



Manual Integration Results

3.486	Response = 34899	M
3.587	Response = 26245	M
3.793	Response = 40194	M
3.830	Response = 31030	M
3.973	Response = 25536	M

Reviewer: owenj, 29-Mar-2017 10:48:12

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30061

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3				B	M1	M2								
PCB-1248 Peak 1	0.0365	0.0272	0.0284			Lin1	0.0002	0.0281							1.0000		0.9900
PCB-1248 Peak 2	0.0370	0.0271	0.0256			Lin1	0.0002	0.0257							1.0000		0.9900
PCB-1248 Peak 3	0.0407	0.0304	0.0262			Lin1	0.0003	0.0267							0.9970		0.9900
PCB-1248 Peak 4	0.0328	0.0243	0.0262			Lin1	0.0001	0.0258							0.9990		0.9900
PCB-1248 Peak 5	0.0378	0.0287	0.0302			Lin1	0.0001	0.0298							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1 Analy Batch No.: 349118

SDG No.:

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/28/2017 19:07 Calibration End Date: 03/28/2017 19:39 Calibration ID: 30061

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-349118/33	7_28-046.D
Level 2	IC 480-349118/32	7_28-045.D
Level 3	IC 480-349118/31	7_28-044.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	BNB	Lin1	37011	678573	2387904			0.0200	0.500	2.00		
PCB-1248 Peak 2	BNB	Lin1	37469	674320	2152906			0.0200	0.500	2.00		
PCB-1248 Peak 3	BNB	Lin1	41233	756594	2199586			0.0200	0.500	2.00		
PCB-1248 Peak 4	BNB	Lin1	33226	605917	2203362			0.0200	0.500	2.00		
PCB-1248 Peak 5	BNB	Lin1	38340	714562	2534395			0.0200	0.500	2.00		

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Mar-2017 19:07:11 ALS Bottle#: 0 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:38 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:46:07

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.168	1.167	0.001	11971661	0.5000	0.5000	
2	1.050	1.050	0.000	21010342	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.486	3.486	0.000	2073540	2.00	2.00	a
1	3.588	3.587	0.001	1710687	2.00	2.03	a
1	3.793	3.793	0.000	2845233	2.00	2.04	a
1	3.830	3.830	0.000	1779509	2.00	1.99	a
1	3.973	3.973	-0.001	1776016	2.00	2.05	a
		Average of Peak Amounts =				2.02	
2	3.108	3.108	0.000	2387904	2.00	2.02	
2	3.210	3.209	0.001	2152906	2.00	1.98	
2	3.353	3.351	0.001	2199586	2.00	1.95	a
2	3.398	3.397	0.001	2203362	2.00	2.03	a
2	3.593	3.593	0.000	2534395	2.00	2.02	
		Average of Peak Amounts =				2.00	
						RPD = 1.12	

Reagents:

1248w/IS@ 2.0_00005 Amount Added: 0.25 Units: mL

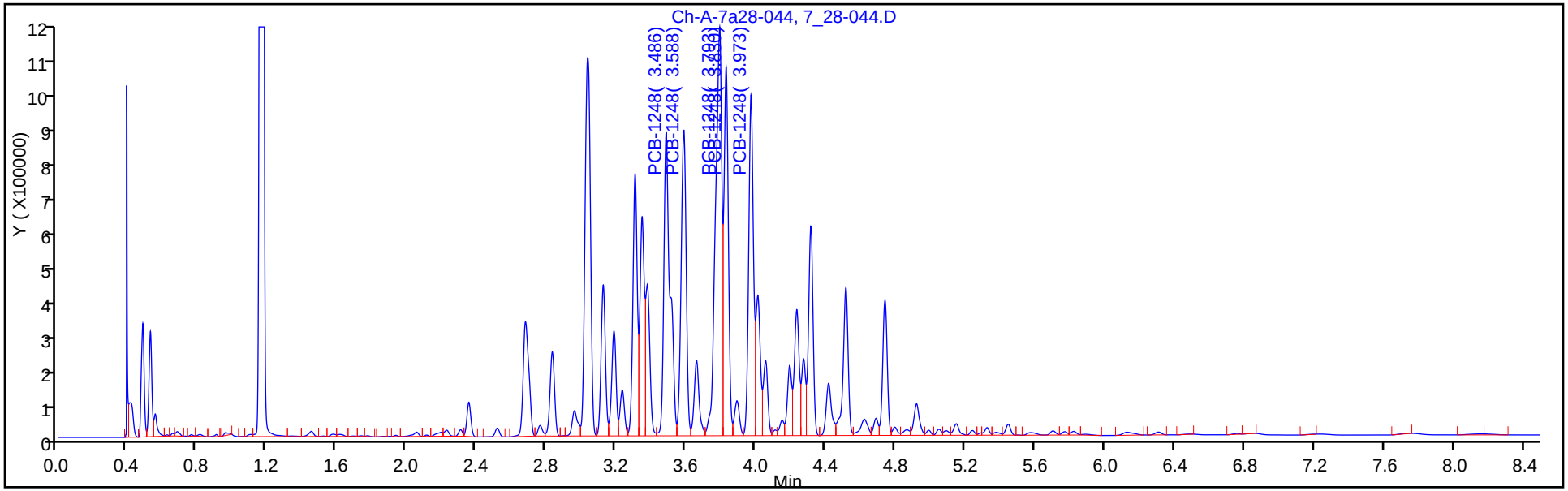
Report Date: 29-Mar-2017 10:55:39 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

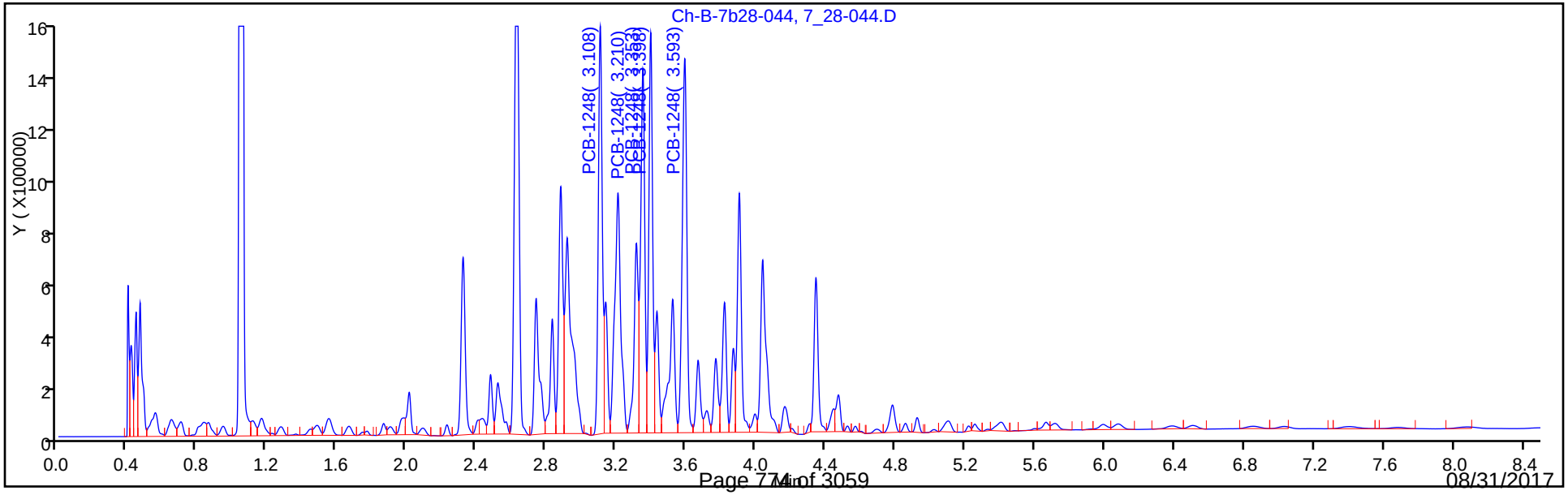
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-044.D

Injection Date:	28-Mar-2017 19:07:11	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 3			Worklist Smp#:	31
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Mar-2017 19:23:08 ALS Bottle#: 0 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:42 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.166	1.167	-0.001	14344670	0.5000	0.5000	
2	1.049	1.050	-0.001	24914143	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.485	3.486	-0.001	623314	0.5000	0.4962	
1	3.587	3.587	0.000	479840	0.5000	0.4706	
1	3.793	3.793	0.000	762025	0.5000	0.4544	
1	3.830	3.830	0.000	556648	0.5000	0.5118	
1	3.973	3.973	0.000	468315	0.5000	0.4484	
		Average of Peak Amounts =				0.4763	
2	3.108	3.108	0.000	678573	0.5000	0.4799	
2	3.209	3.209	0.000	674320	0.5000	0.5171	
2	3.353	3.351	0.001	756594	0.5000	0.5558	
2	3.398	3.397	0.001	605917	0.5000	0.4677	
2	3.593	3.593	0.000	714562	0.5000	0.4772	
		Average of Peak Amounts =				0.4995	
						RPD = 4.77	

Reagents:

1248w/IS@ 0.5_00008 Amount Added: 0.25 Units: mL

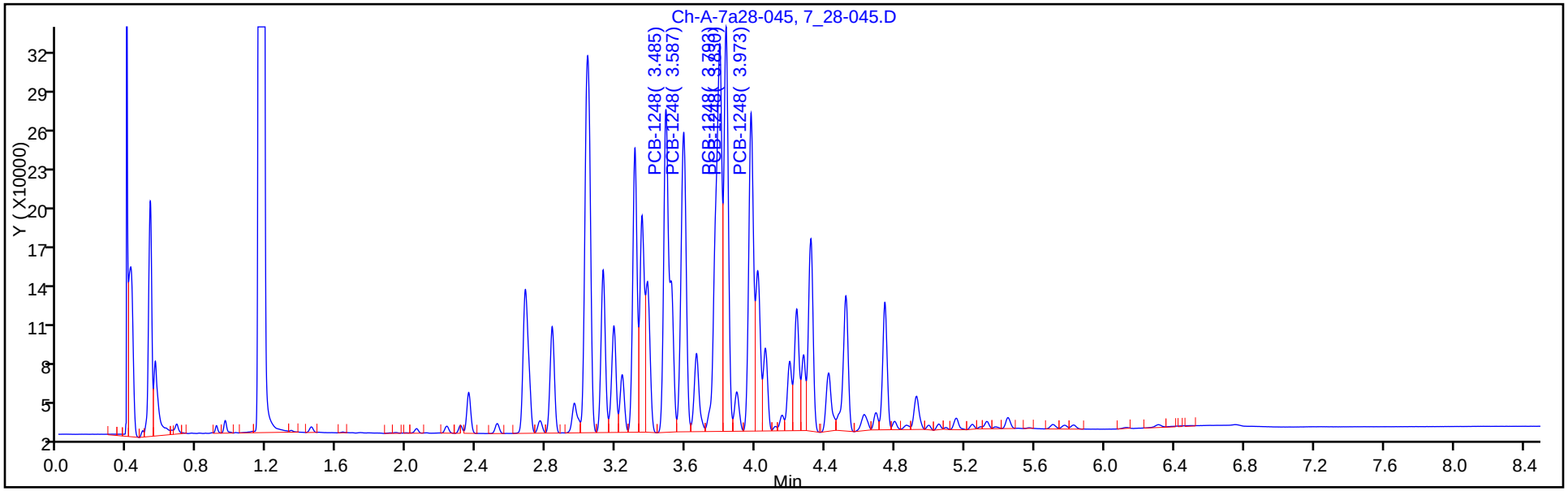
Report Date: 29-Mar-2017 10:55:43 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

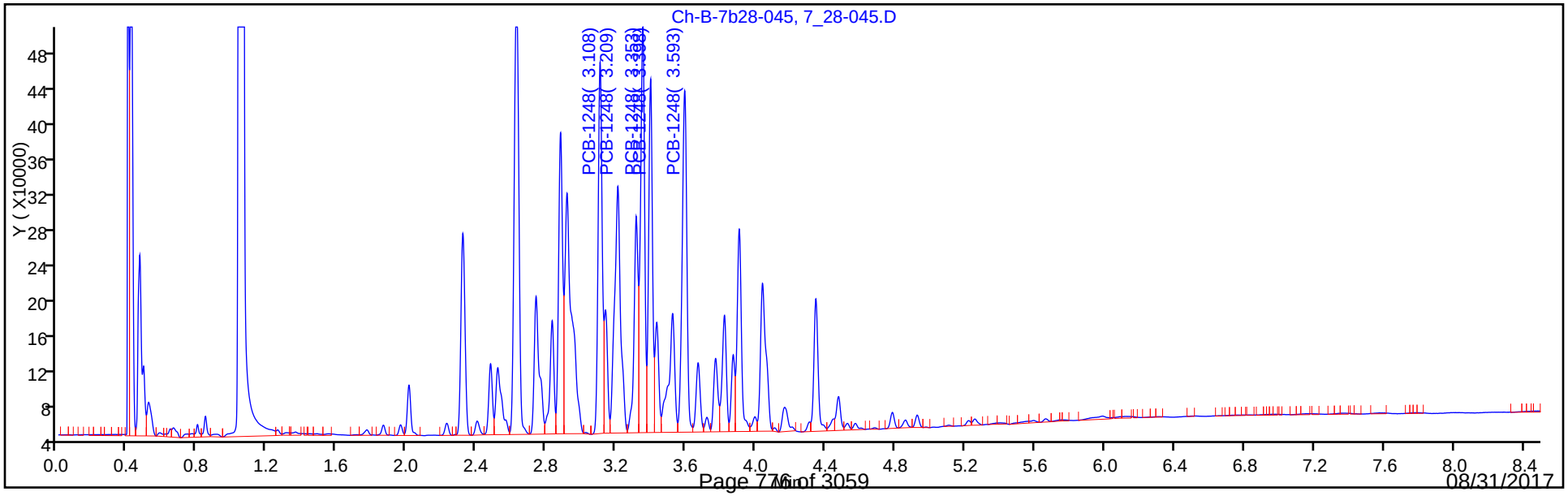
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-045.D

Injection Date:	28-Mar-2017 19:23:08	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 2			Worklist Smp#:	32
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D
Lims ID: IC 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Mar-2017 19:39:13 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 29-Mar-2017 10:55:45 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK002

First Level Reviewer: owenj Date: 29-Mar-2017 10:51:37

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.167	1.167	0.000	14092234	0.5000	0.5000	
2	1.049	1.049	0.000	25348531	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							M
1	3.486	3.486	0.000	34899	0.0200	0.0201	M
1	3.587	3.587	0.000	26245	0.0200	0.0209	M
1	3.793	3.793	0.000	40194	0.0200	0.0214	M
1	3.830	3.830	0.000	31030	0.0200	0.0196	M
1	3.973	3.973	0.000	25536	0.0200	0.0216	M
		Average of Peak Amounts =				0.0207	
2	3.108	3.108	0.000	37011	0.0200	0.0206	M
2	3.209	3.209	0.000	37469	0.0200	0.0195	M
2	3.351	3.351	0.000	41233	0.0200	0.0183	M
2	3.397	3.397	0.000	33226	0.0200	0.0210	M
2	3.593	3.593	0.000	38340	0.0200	0.0207	M
		Average of Peak Amounts =				0.0200	
						RPD = 3.46	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

1248w/IS@ .02_00005 Amount Added: 0.25 Units: mL

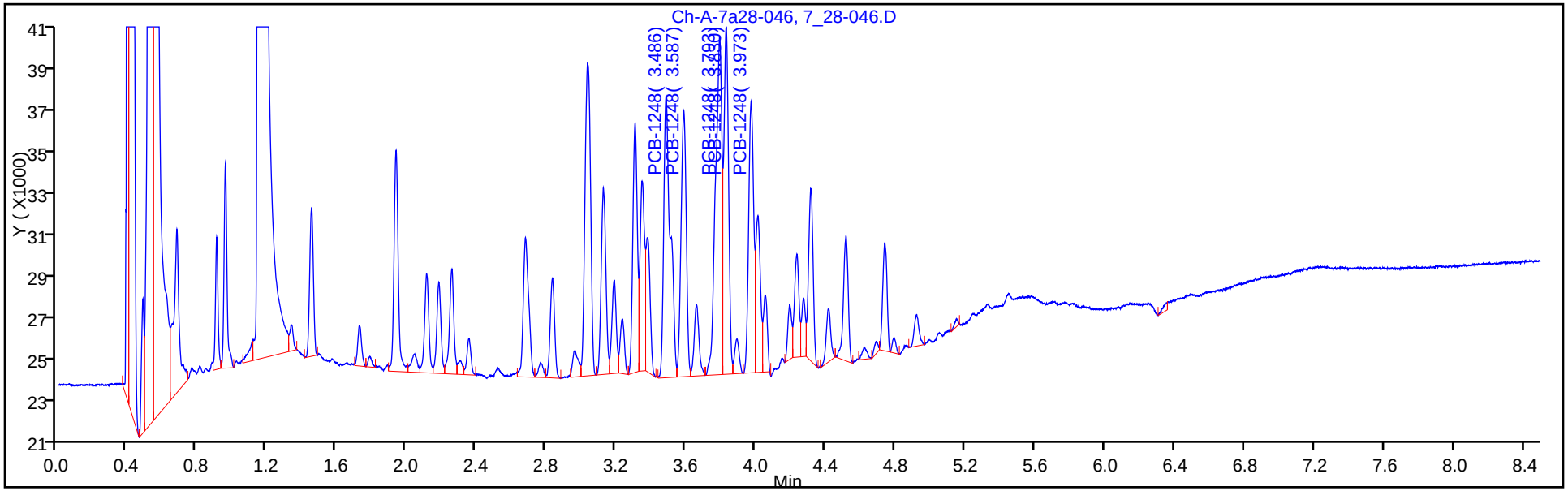
Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

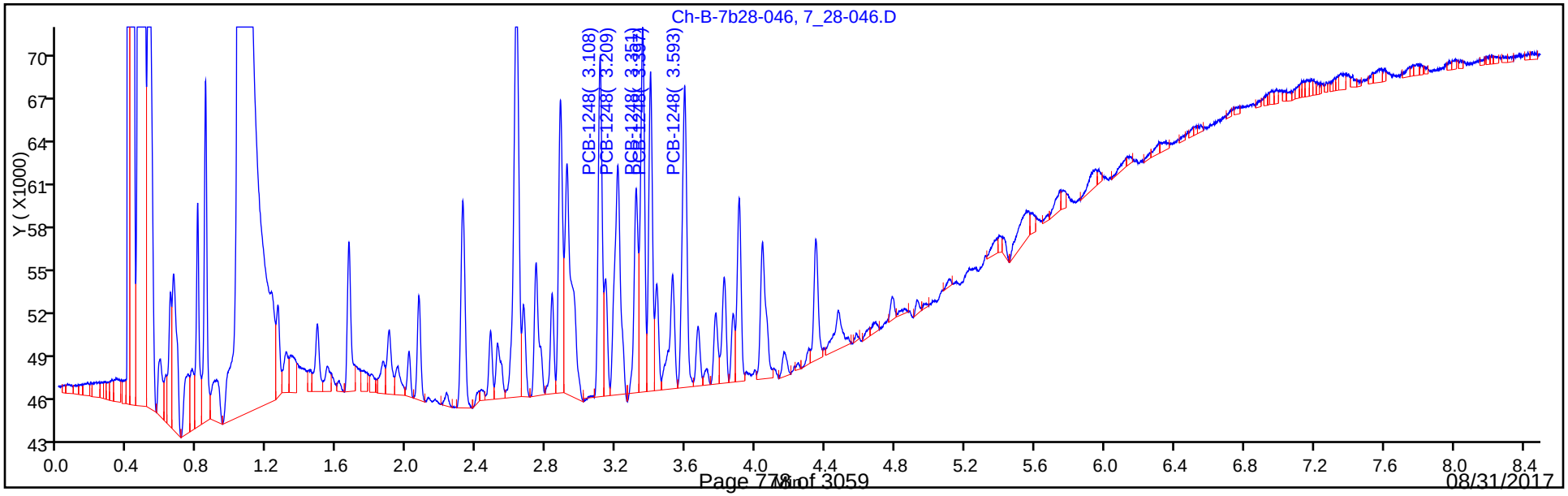
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date:	28-Mar-2017 19:39:13	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	IC 1			Worklist Smp#:	33
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 29-Mar-2017 10:55:46 Chrom Revision: 2.2 22-Mar-2017 08:36:42

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Injection Date: 28-Mar-2017 19:39:13 Instrument ID: HP6890-7

Lims ID: IC 1

Client ID:

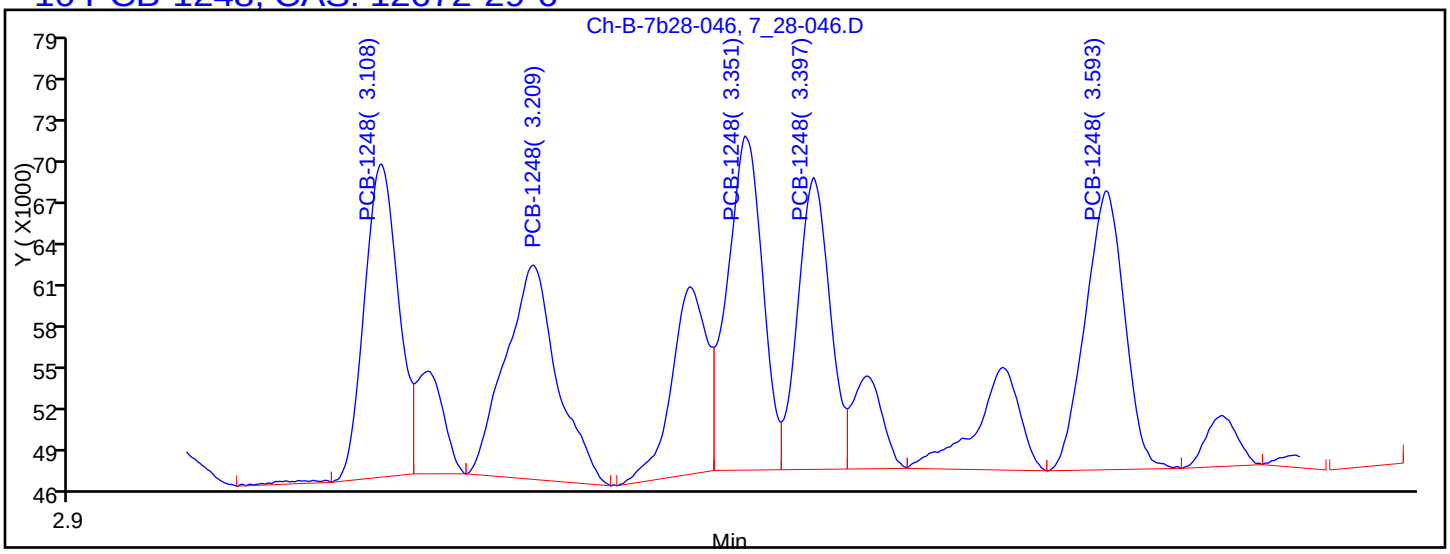
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 33

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

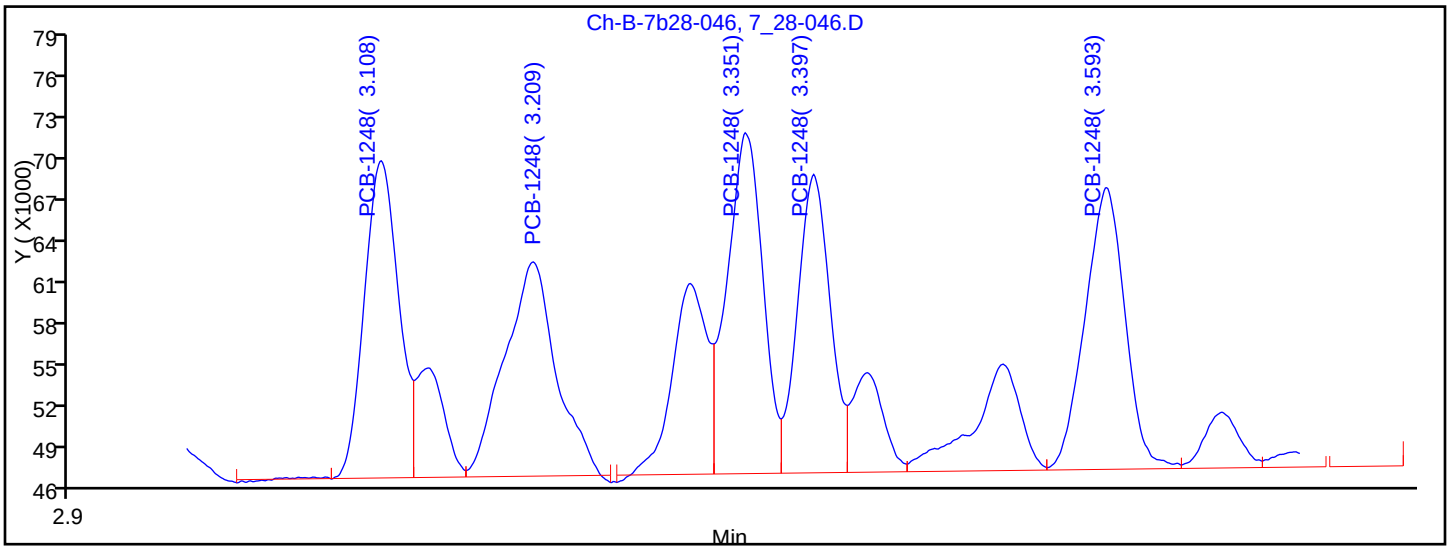
Column: Detector Ch-B-7b136

10 PCB-1248, CAS: 12672-29-6



Processing Integration Results

3.108	Response = 36221
3.209	Response = 37652
3.351	Response = 39887
3.397	Response = 31922
3.593	Response = 37171



Manual Integration Results

3.108	Response = 37011	M
3.209	Response = 37469	M
3.351	Response = 41233	M
3.397	Response = 33226	M
3.593	Response = 38340	M

Reviewer: owenj, 29-Mar-2017 10:48:19

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCVIS 480-374407/6 Calibration Date: 08/29/2017 12:23

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_38-193.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0341		0.446	0.500	-10.8	20.0
PCB-1016 Peak 2	Lin1		0.0208		0.439	0.500	-12.3	20.0
PCB-1016 Peak 3	Lin1		0.0699		0.431	0.500	-13.7	20.0
PCB-1016 Peak 4	Lin1		0.0261		0.428	0.500	-14.3	20.0
PCB-1016 Peak 5	Lin1		0.0178		0.423	0.500	-15.3	20.0
PCB-1260 Peak 1	Lin1		0.0557		0.439	0.500	-12.1	20.0
PCB-1260 Peak 2	Lin1		0.0315		0.443	0.500	-11.5	20.0
PCB-1260 Peak 3	Lin1		0.0266		0.395	0.500	-21.1*	20.0
PCB-1260 Peak 4	Lin1		0.0716		0.425	0.500	-15.0	20.0
PCB-1260 Peak 5	Lin1		0.0321		0.400	0.500	-19.9	20.0
Tetrachloro-m-xylene	Lin1		1.112		0.0111	0.0125	-10.8	20.0
DCB Decachlorobiphenyl	Lin1		0.6366		0.0110	0.0125	-12.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCVIS 480-374407/6 Calibration Date: 08/29/2017 12:23

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_38-193.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.63	2.60	2.66
PCB-1016 Peak 2	2.78	2.75	2.81
PCB-1016 Peak 3	2.99	2.96	3.02
PCB-1016 Peak 4	3.07	3.04	3.10
PCB-1016 Peak 5	3.14	3.11	3.17
PCB-1260 Peak 1	4.86	4.83	4.89
PCB-1260 Peak 2	4.99	4.96	5.02
PCB-1260 Peak 3	5.19	5.16	5.22
PCB-1260 Peak 4	5.39	5.36	5.42
PCB-1260 Peak 5	5.64	5.61	5.67
Tetrachloro-m-xylene	2.05	2.02	2.08
DCB Decachlorobiphenyl	7.07	7.04	7.10

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-193.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Aug-2017 12:23:14 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:25:36 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:25:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.137	1.137	0.000	14377579	0.5000	0.5000	
2	0.994	0.994	0.000	29760638	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.048	2.048	0.000	399569	0.0125	0.0111	
2	1.554	1.554	0.000	586352	0.0125	0.008729	
						RPD = 24.31	
9 PCB-1016							M
1	2.632	2.632	0.000	490428	0.5000	0.4461	M
1	2.784	2.784	0.000	298645	0.5000	0.4385	M
1	2.988	2.988	0.000	1004410	0.5000	0.4313	M
1	3.073	3.073	0.000	375257	0.5000	0.4283	M
1	3.136	3.136	0.000	255601	0.5000	0.4235	M
		Average of Peak Amounts =				0.4335	
2	2.228	2.228	0.000	714311	0.5000	0.3429	M
2	2.533	2.533	0.000	1370219	0.5000	0.3185	M
2	2.642	2.642	0.000	523752	0.5000	0.3200	M
2	2.733	2.733	0.000	350240	0.5000	0.3200	M
2	3.006	3.006	0.000	594236	0.5000	0.3170	M
		Average of Peak Amounts =				0.3237	
						RPD = 29.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.863	4.863	0.000	800758	0.5000	0.4395	M
1	4.993	4.993	0.000	452816	0.5000	0.4427	M
1	5.185	5.185	0.000	382287	0.5000	0.3945	M
1	5.391	5.391	0.000	1029958	0.5000	0.4249	M
1	5.641	5.641	0.000	461945	0.5000	0.4004	
		Average of Peak Amounts =				0.4204	
2	4.370	4.370	0.000	771755	0.5000	0.3572	M
2	4.423	4.423	0.000	584177	0.5000	0.2958	M
2	4.678	4.678	0.000	650072	0.5000	0.4255	M
2	4.823	4.823	0.000	1502279	0.5000	0.3069	M
2	5.151	5.151	0.000	1001576	0.5000	0.3377	M
		Average of Peak Amounts =				0.3446	
						RPD = 19.81	
4 1260 Res 2							M
1	5.706	5.706	0.000	221682	NC	NC	
2	4.678	4.678	0.000	650072	NC	NC	M
$ 15 DCB Decachlorobiphenyl							M
1	7.068	7.068	0.000	228828	0.0125	0.0110	M
2	6.161	6.161	0.000	453253	0.0125	0.0103	
						RPD = 6.04	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- s - Failed ISTD Recovery Test

Review Flags
- M - Manually Integrated

Reagents:

1660sur/is0.5_00007 Amount Added: 1.00 Units: ml

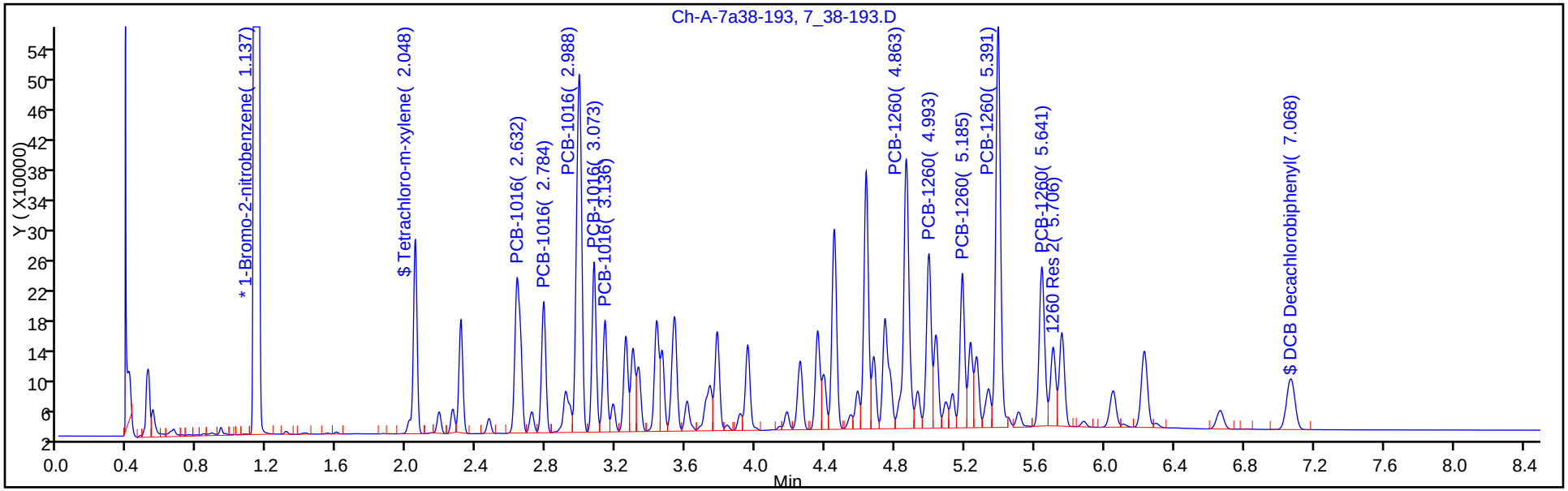
Report Date: 30-Aug-2017 10:25:36 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

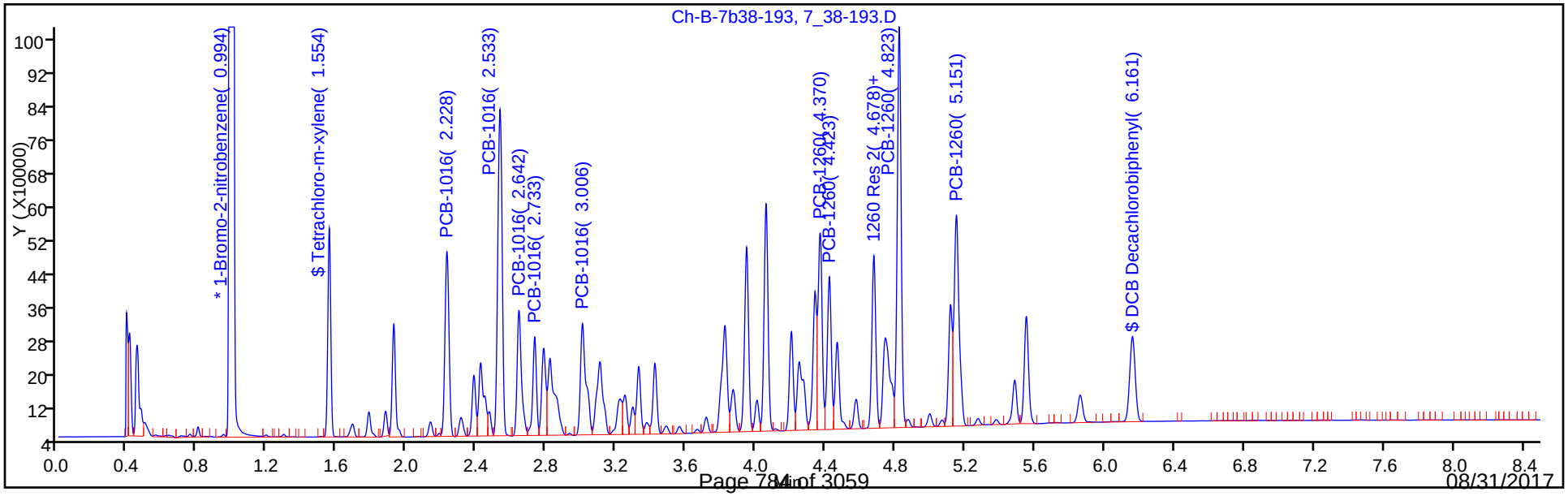
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-193.D

Injection Date:	29-Aug-2017 12:23:14	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Aug-2017 10:25:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-193.D

Injection Date: 29-Aug-2017 12:23:14 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

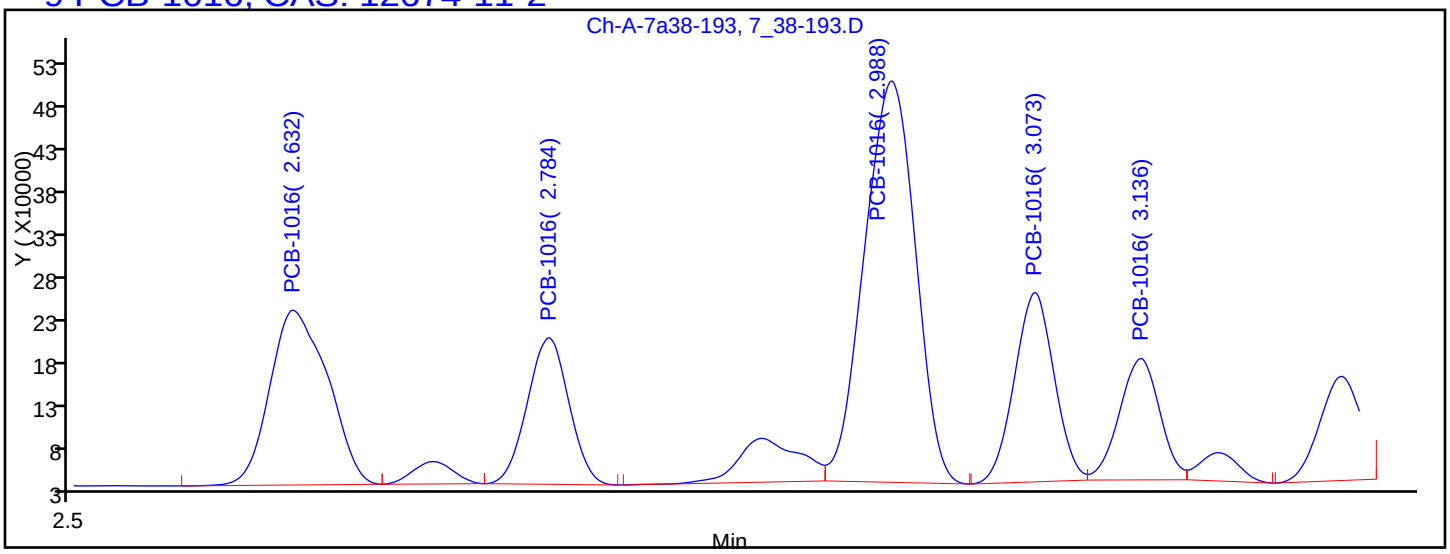
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

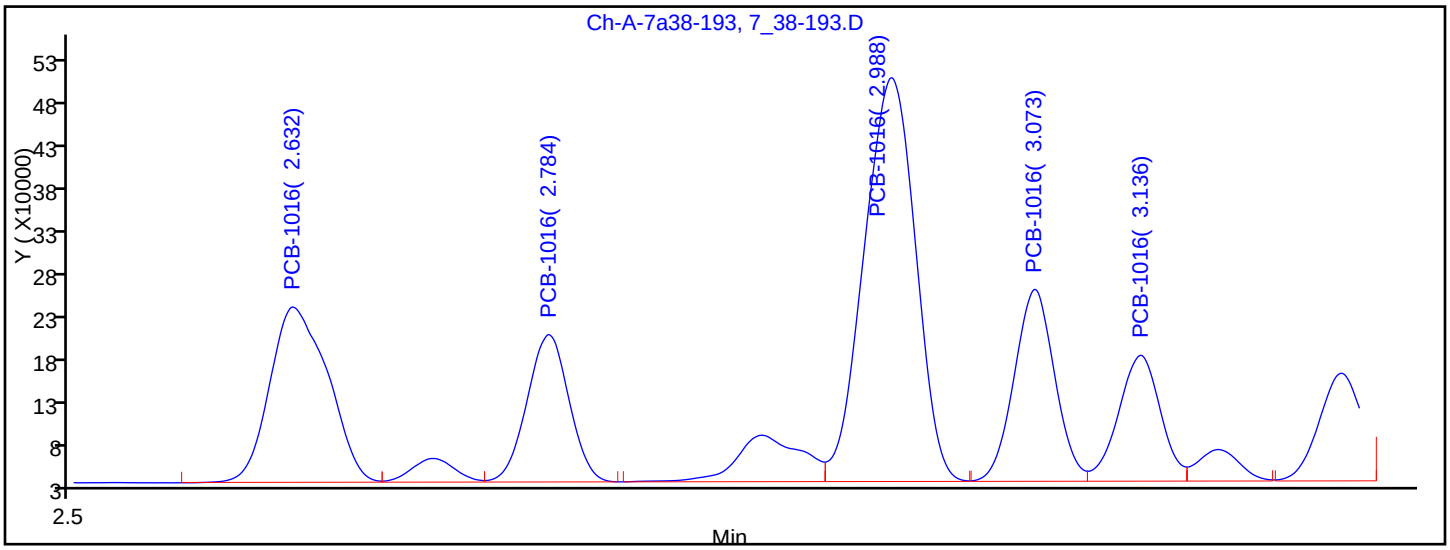
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.632	Response = 487704
2.784	Response = 294518
2.988	Response = 991556
3.073	Response = 363764
3.136	Response = 237532



Manual Integration Results

2.632	Response = 490428	M
2.784	Response = 298645	M
2.988	Response = 1004410	M
3.073	Response = 375257	M
3.136	Response = 255601	M

Reviewer: owenj, 29-Aug-2017 12:50:58

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Aug-2017 10:25:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-193.D

Injection Date: 29-Aug-2017 12:23:14 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

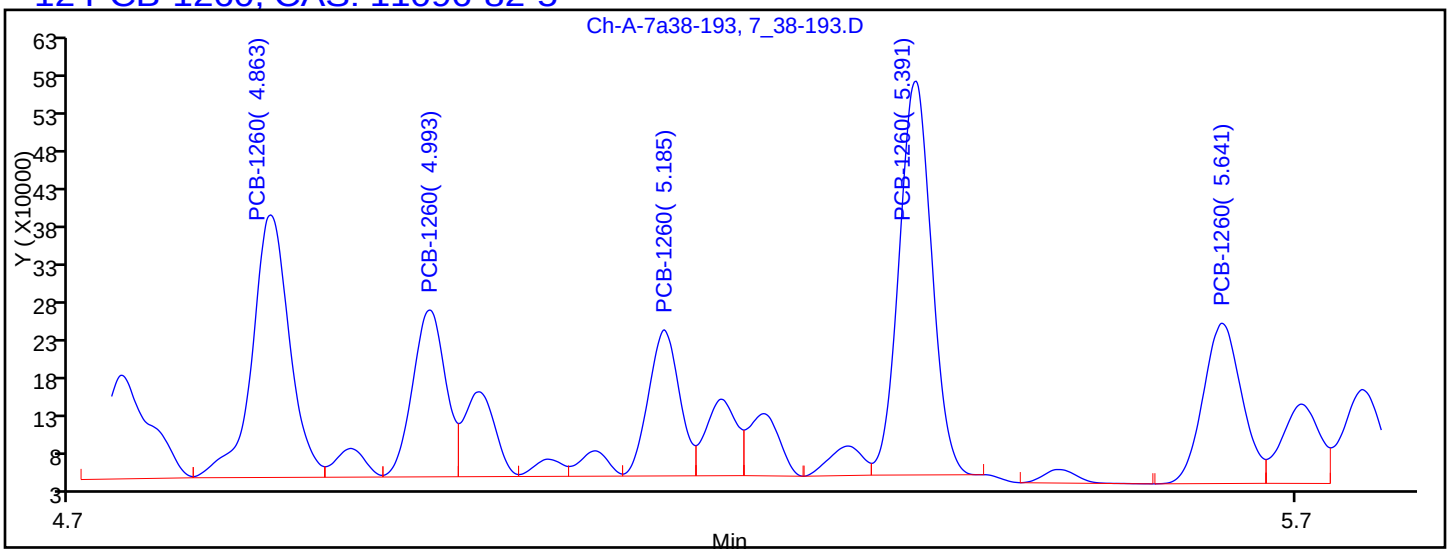
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

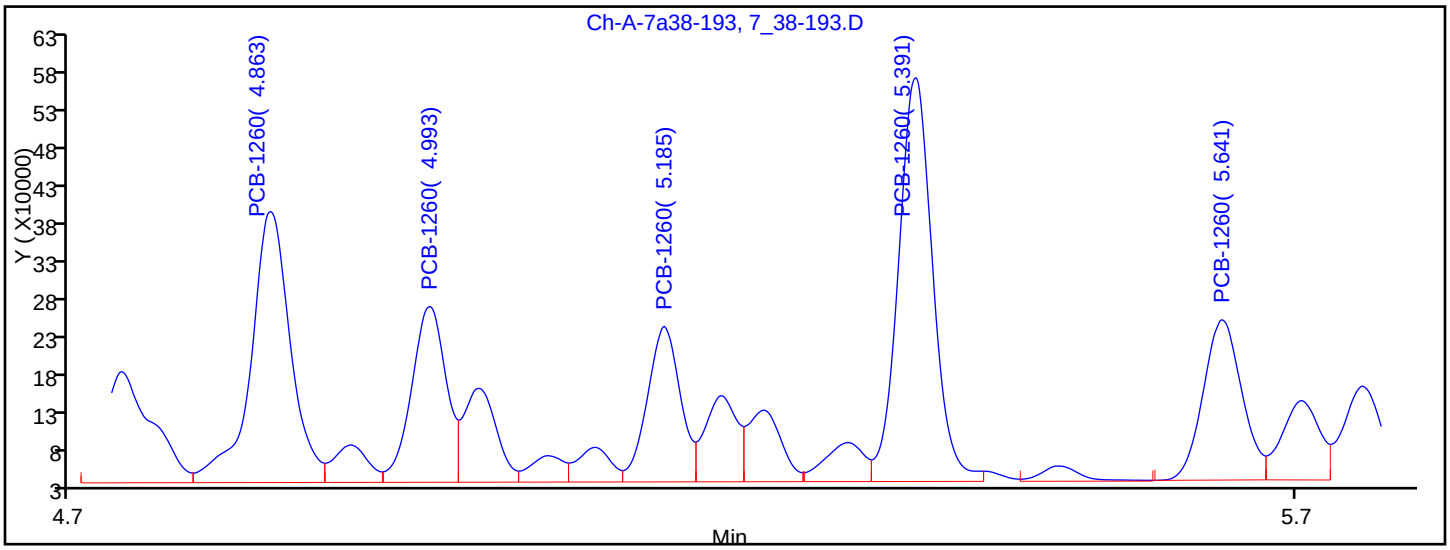
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.863	Response = 728779
4.993	Response = 409800
5.185	Response = 337955
5.391	Response = 957977
5.641	Response = 461945



Manual Integration Results

4.863	Response = 800758	M
4.993	Response = 452816	M
5.185	Response = 382287	M
5.391	Response = 1029958	M
5.641	Response = 461945	

Reviewer: owenj, 29-Aug-2017 12:50:58

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

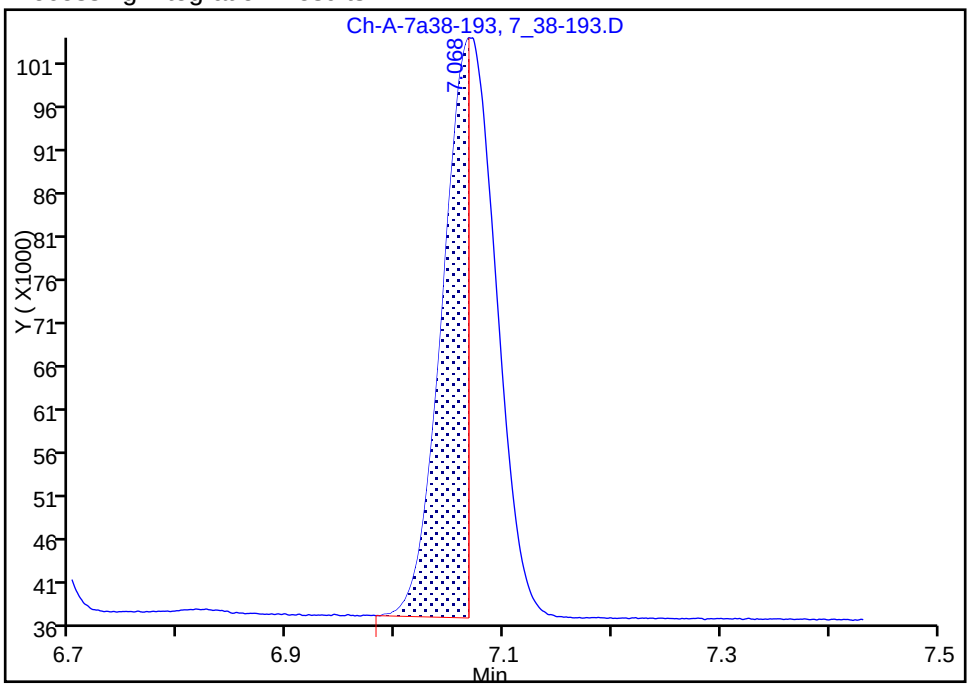
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-193.D
Injection Date: 29-Aug-2017 12:23:14 Instrument ID: HP6890-7
Lims ID: CCVIS
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 15 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

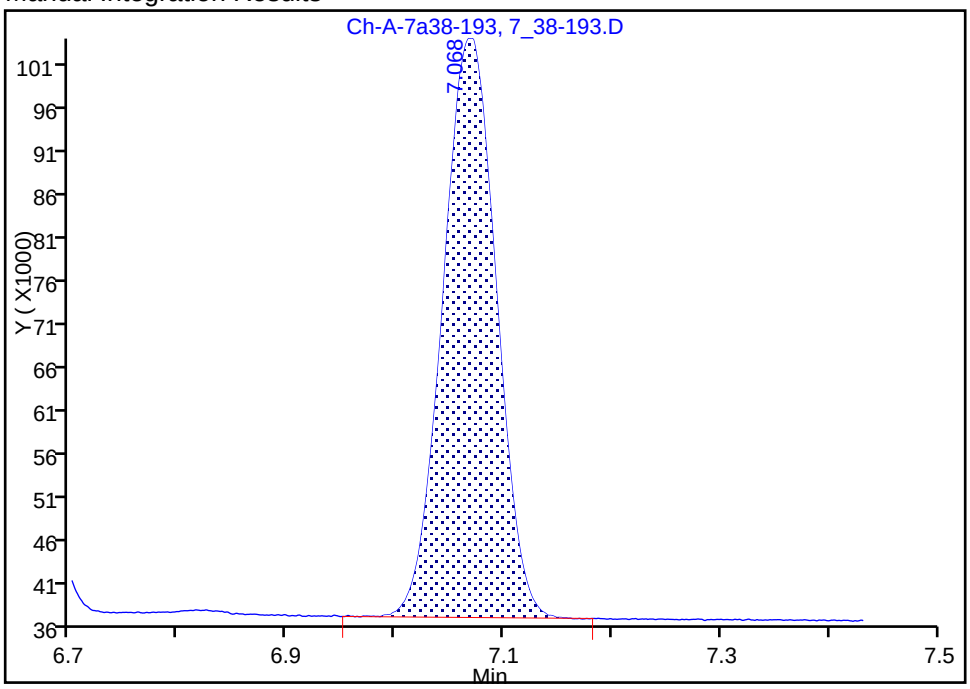
Processing Integration Results

RT: 7.07
Area: 111380
Amount: 0.005000
Amount Units: ng/uL



Manual Integration Results

RT: 7.07
Area: 228828
Amount: 0.010992
Amount Units: ng/uL



Reviewer: owenj, 29-Aug-2017 12:51:03
Audit Action: Manually Integrated Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCVIS 480-374407/6 Calibration Date: 08/29/2017 12:23

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_38-193.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		0.0240		0.343	0.500	-31.4*	20.0
PCB-1016 Peak 2	Lin1		0.0460		0.319	0.500	-36.3*	20.0
PCB-1016 Peak 3	Lin1		0.0176		0.320	0.500	-36.0*	20.0
PCB-1016 Peak 4	Lin1		0.0118		0.320	0.500	-36.0*	20.0
PCB-1016 Peak 5	Lin1		0.0200		0.317	0.500	-36.6*	20.0
PCB-1260 Peak 1	Lin1		0.0259		0.357	0.500	-28.6*	20.0
PCB-1260 Peak 2	Lin1		0.0196		0.296	0.500	-40.8*	20.0
PCB-1260 Peak 3	Lin1		0.0218		0.426	0.500	-14.9	20.0
PCB-1260 Peak 4	Lin1		0.0505		0.307	0.500	-38.6*	20.0
PCB-1260 Peak 5	Lin1		0.0337		0.338	0.500	-32.5*	20.0
Tetrachloro-m-xylene	Lin1		0.7881		0.00873	0.0125	-30.2*	20.0
DCB Decachlorobiphenyl	Lin1		0.6092		0.0103	0.0125	-17.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCVIS 480-374407/6 Calibration Date: 08/29/2017 12:23

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 12:44

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 14:20

Lab File ID: 7_38-193.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.23	2.20	2.26
PCB-1016 Peak 2	2.53	2.50	2.56
PCB-1016 Peak 3	2.64	2.61	2.67
PCB-1016 Peak 4	2.73	2.70	2.76
PCB-1016 Peak 5	3.01	2.98	3.04
PCB-1260 Peak 1	4.37	4.34	4.40
PCB-1260 Peak 2	4.42	4.39	4.45
PCB-1260 Peak 3	4.68	4.65	4.71
PCB-1260 Peak 4	4.82	4.79	4.85
PCB-1260 Peak 5	5.15	5.12	5.18
Tetrachloro-m-xylene	1.55	1.52	1.58
DCB Decachlorobiphenyl	6.16	6.13	6.19

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-193.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Aug-2017 12:23:14 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub6

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:25:36 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:25:36

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.137	1.137	0.000	14377579	0.5000	0.5000	
2	0.994	0.994	0.000	29760638	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.048	2.048	0.000	399569	0.0125	0.0111	
2	1.554	1.554	0.000	586352	0.0125	0.008729	
						RPD = 24.31	
9 PCB-1016							M
1	2.632	2.632	0.000	490428	0.5000	0.4461	M
1	2.784	2.784	0.000	298645	0.5000	0.4385	M
1	2.988	2.988	0.000	1004410	0.5000	0.4313	M
1	3.073	3.073	0.000	375257	0.5000	0.4283	M
1	3.136	3.136	0.000	255601	0.5000	0.4235	M
		Average of Peak Amounts =				0.4335	
2	2.228	2.228	0.000	714311	0.5000	0.3429	M
2	2.533	2.533	0.000	1370219	0.5000	0.3185	M
2	2.642	2.642	0.000	523752	0.5000	0.3200	M
2	2.733	2.733	0.000	350240	0.5000	0.3200	M
2	3.006	3.006	0.000	594236	0.5000	0.3170	M
		Average of Peak Amounts =				0.3237	
						RPD = 29.02	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.863	4.863	0.000	800758	0.5000	0.4395	M
1	4.993	4.993	0.000	452816	0.5000	0.4427	M
1	5.185	5.185	0.000	382287	0.5000	0.3945	M
1	5.391	5.391	0.000	1029958	0.5000	0.4249	M
1	5.641	5.641	0.000	461945	0.5000	0.4004	
		Average of Peak Amounts =				0.4204	
2	4.370	4.370	0.000	771755	0.5000	0.3572	M
2	4.423	4.423	0.000	584177	0.5000	0.2958	M
2	4.678	4.678	0.000	650072	0.5000	0.4255	M
2	4.823	4.823	0.000	1502279	0.5000	0.3069	M
2	5.151	5.151	0.000	1001576	0.5000	0.3377	M
		Average of Peak Amounts =				0.3446	
						RPD = 19.81	
4 1260 Res 2							M
1	5.706	5.706	0.000	221682	NC	NC	
2	4.678	4.678	0.000	650072	NC	NC	M
$ 15 DCB Decachlorobiphenyl							M
1	7.068	7.068	0.000	228828	0.0125	0.0110	M
2	6.161	6.161	0.000	453253	0.0125	0.0103	
						RPD = 6.04	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- s - Failed ISTD Recovery Test

Review Flags
- M - Manually Integrated

Reagents:

1660sur/is0.5_00007 Amount Added: 1.00 Units: ml

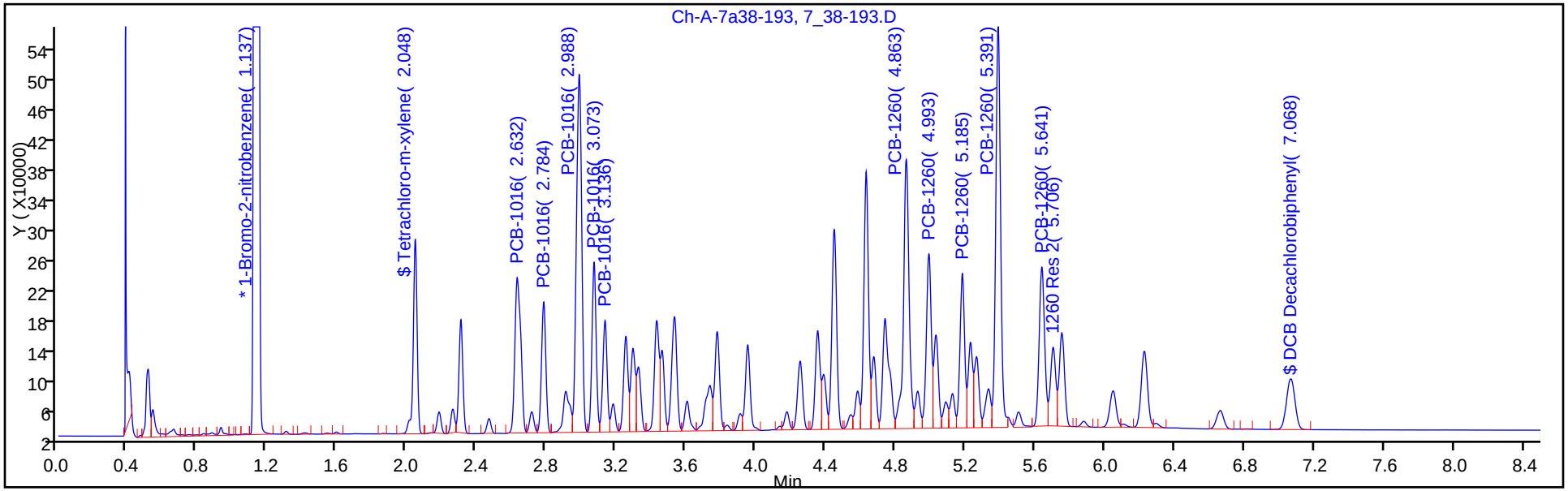
Report Date: 30-Aug-2017 10:25:37 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

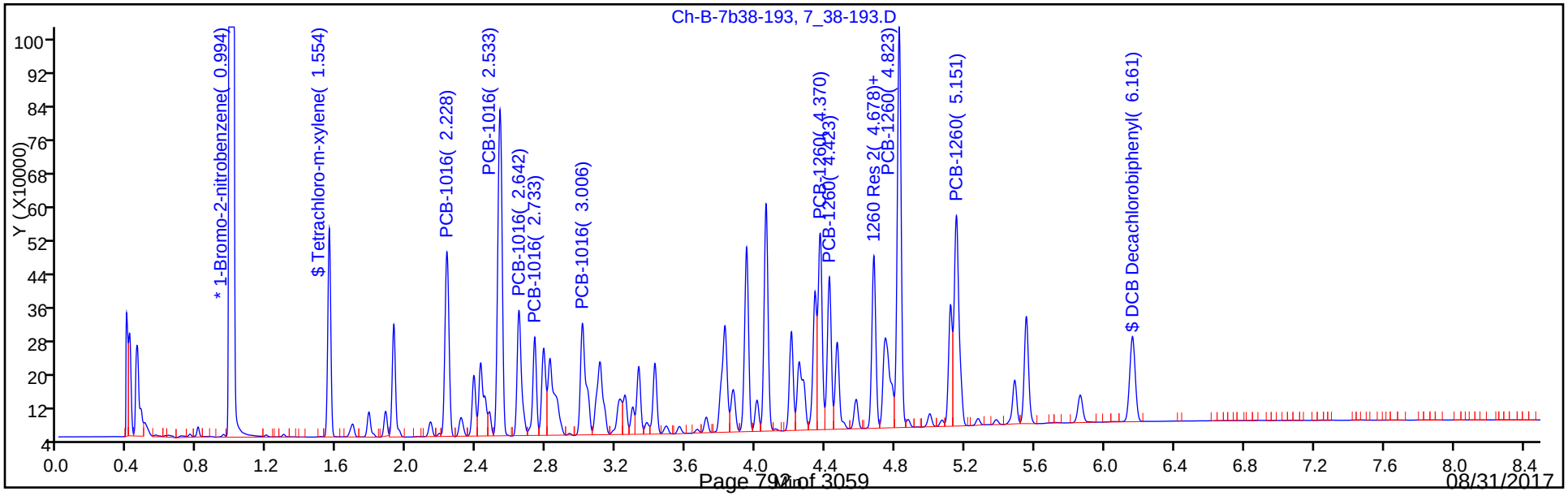
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-193.D

Injection Date:	29-Aug-2017 12:23:14	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCVIS			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Aug-2017 10:25:38 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-193.D

Injection Date: 29-Aug-2017 12:23:14 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

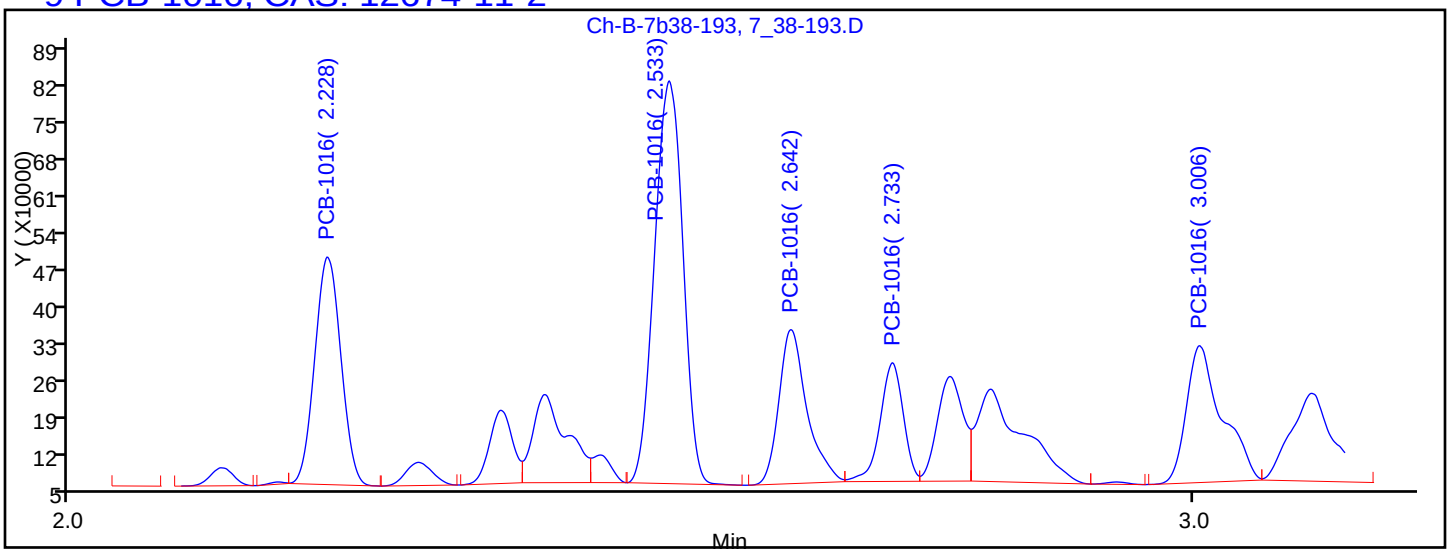
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

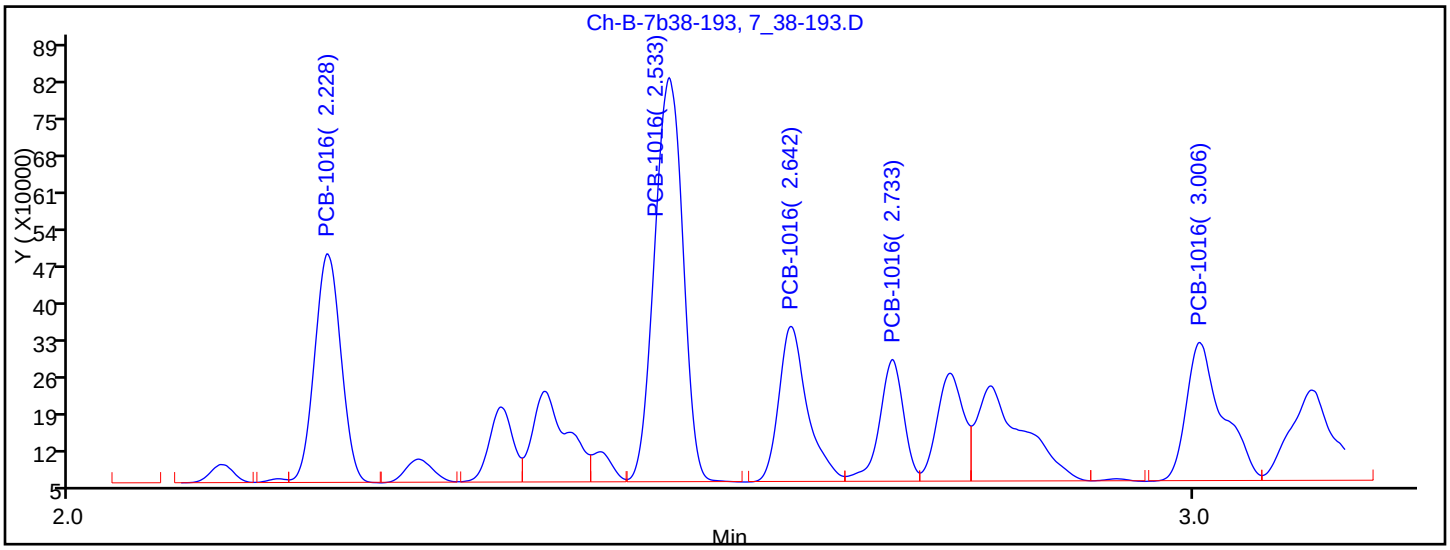
Column: Detector Ch-B-7b136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.228	Response = 706562
2.533	Response = 1359303
2.642	Response = 511863
2.733	Response = 327170
3.006	Response = 577184



Manual Integration Results

2.228	Response = 714311	M
2.533	Response = 1370219	M
2.642	Response = 523752	M
2.733	Response = 350240	M
3.006	Response = 594236	M

Reviewer: owenj, 29-Aug-2017 12:51:15

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Aug-2017 10:25:38 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-193.D

Injection Date: 29-Aug-2017 12:23:14 Instrument ID: HP6890-7

Lims ID: CCVIS

Client ID:

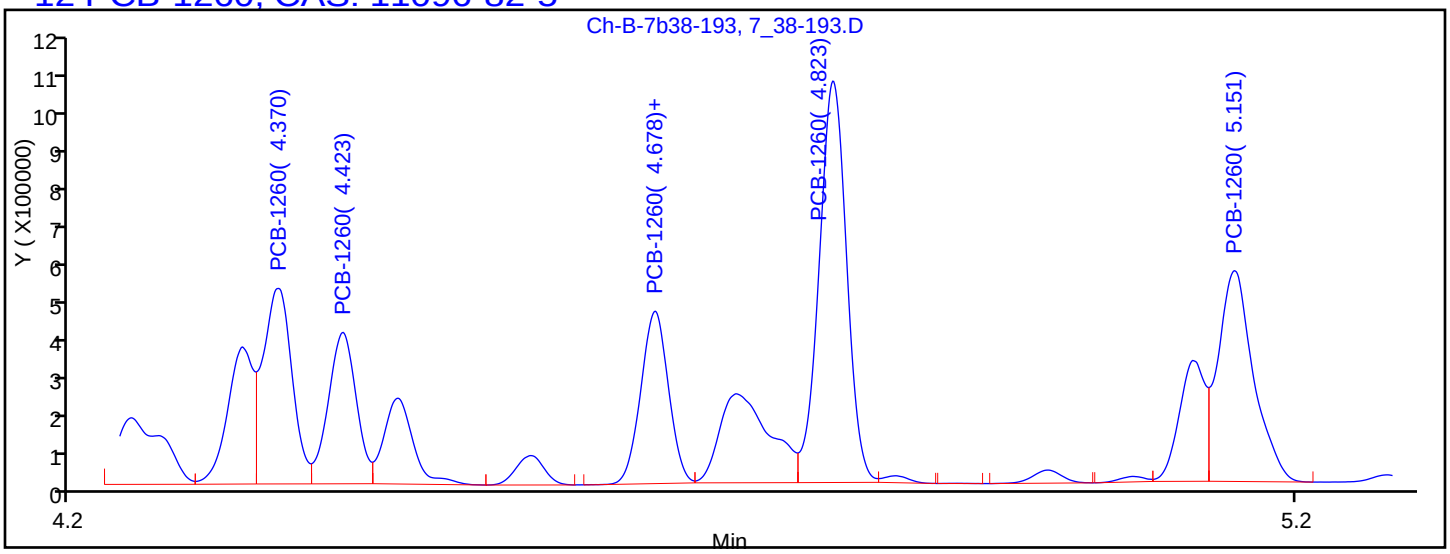
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

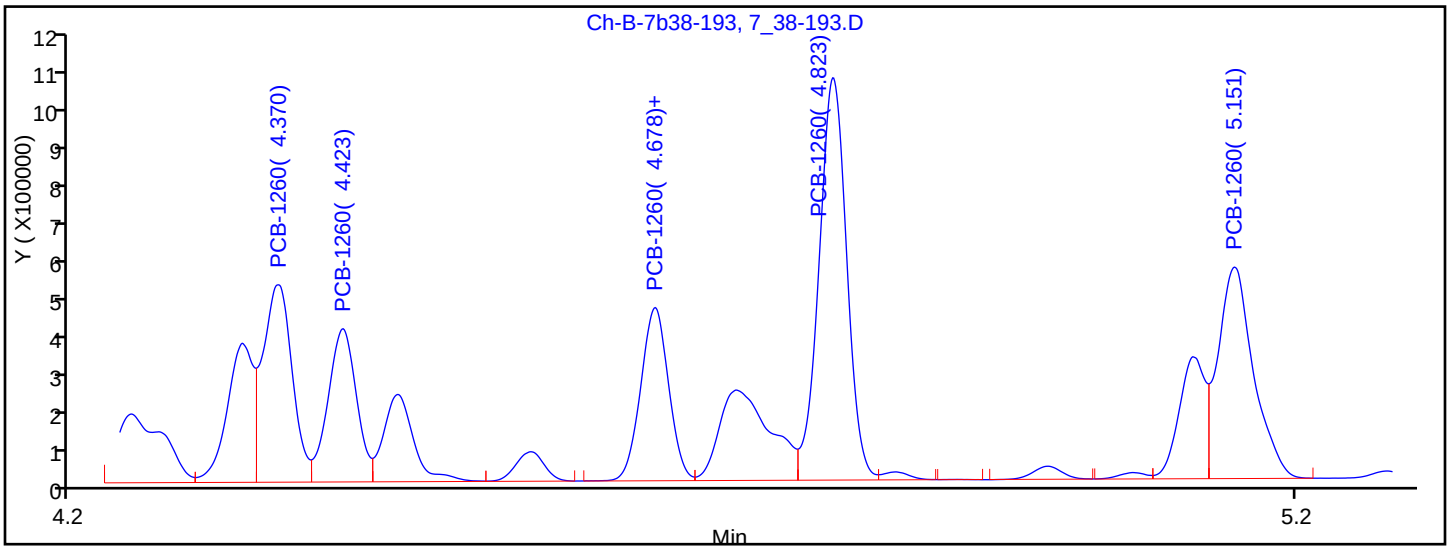
Column: Detector Ch-B-7b136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.370	Response = 758183
4.423	Response = 569720
4.678	Response = 639922
4.823	Response = 1488719
5.151	Response = 993755



Manual Integration Results

4.370	Response = 771755	M
4.423	Response = 584177	M
4.678	Response = 650072	M
4.823	Response = 1502279	M
5.151	Response = 1001576	M

Reviewer: owenj, 29-Aug-2017 12:51:11

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/7 Calibration Date: 08/29/2017 12:39

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_38-194.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0078		0.555	0.500	10.9	20.0
PCB-1221 Peak 2	Lin1		0.0113		0.501	0.500	0.3	20.0
PCB-1221 Peak 3	Lin1		0.0070		0.514	0.500	2.8	20.0
PCB-1221 Peak 4	Lin1		0.0259		0.516	0.500	3.2	20.0
PCB-1254 Peak 1	Lin1		0.0486		0.467	0.500	-6.5	20.0
PCB-1254 Peak 2	Lin1		0.0306		0.448	0.500	-10.4	20.0
PCB-1254 Peak 3	Lin1		0.0553		0.449	0.500	-10.3	20.0
PCB-1254 Peak 4	Lin1		0.0587		0.470	0.500	-6.0	20.0
PCB-1254 Peak 5	Lin1		0.0490		0.465	0.500	-7.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/7 Calibration Date: 08/29/2017 12:39

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_38-194.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.60	1.57	1.63
PCB-1221 Peak 2	2.19	2.16	2.22
PCB-1221 Peak 3	2.26	2.23	2.29
PCB-1221 Peak 4	2.31	2.28	2.34
PCB-1254 Peak 1	3.96	3.93	3.99
PCB-1254 Peak 2	4.18	4.15	4.21
PCB-1254 Peak 3	4.26	4.23	4.29
PCB-1254 Peak 4	4.46	4.43	4.49
PCB-1254 Peak 5	4.86	4.83	4.89

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-194.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 29-Aug-2017 12:39:16 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:26:34 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:26:34

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.138	1.138	0.000	14444088	0.5000	0.5000	
2	0.995	0.995	0.000	29815322	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.595	1.595	0.000	112874	0.5000	0.5545	
1	2.185	2.185	0.000	162513	0.5000	0.5014	
1	2.262	2.262	0.000	101149	0.5000	0.5140	
1	2.310	2.310	0.000	373672	0.5000	0.5162	
		Average of Peak Amounts =				0.5215	
2	1.293	1.293	0.000	211094	0.5000	0.5046	
2	1.782	1.782	0.000	255728	0.5000	0.3885	
2	1.878	1.878	0.000	160439	0.5000	0.4027	
2	1.924	1.924	0.000	569161	0.5000	0.4488	
		Average of Peak Amounts =				0.4362	
						RPD = 17.83	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.956	3.956	0.000	702422	0.5000	0.4674	
1	4.179	4.179	0.000	441203	0.5000	0.4478	
1	4.258	4.258	0.000	799006	0.5000	0.4486	
1	4.458	4.458	0.000	847381	0.5000	0.4698	
1	4.863	4.863	0.000	707371	0.5000	0.4651	
		Average of Peak Amounts =				0.4598	
2	3.423	3.423	0.000	717603	0.5000	0.3211	
2	3.716	3.716	0.000	549497	0.5000	0.3358	
2	3.801	3.801	0.000	1188463	0.5000	0.3357	
2	3.938	3.938	0.000	1221426	0.5000	0.3399	
2	4.369	4.369	0.000	1084428	0.5000	0.3588	
		Average of Peak Amounts =				0.3382	
						RPD = 30.45	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

21-54w/IS@0.5_00009 Amount Added: 1.00 Units: mL

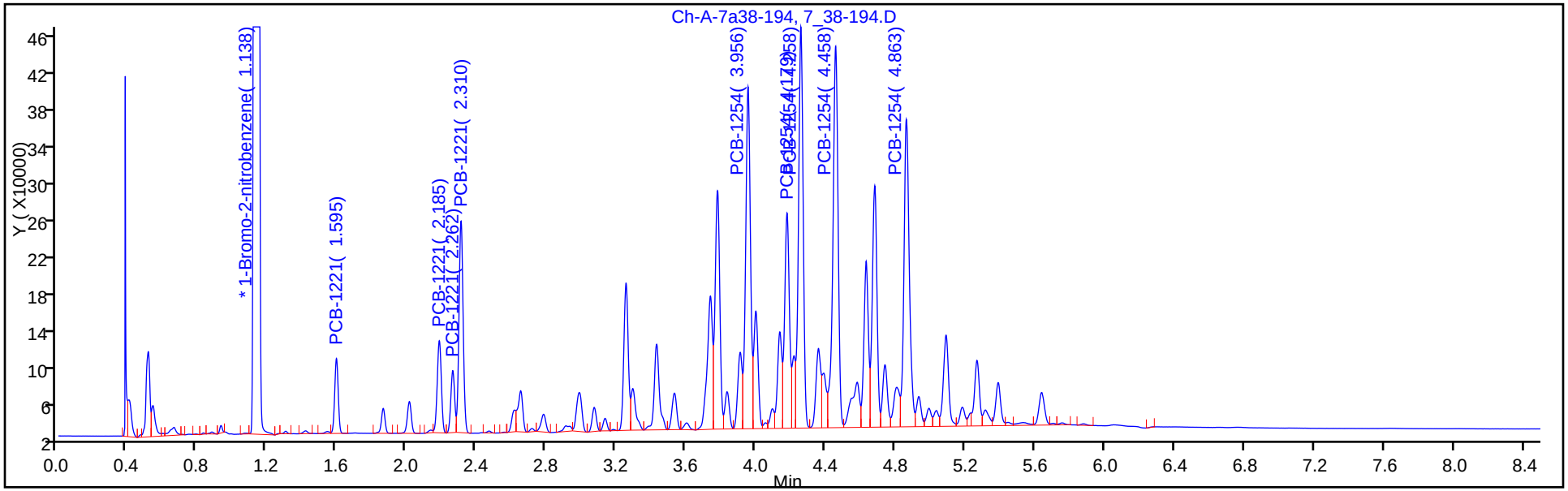
Report Date: 30-Aug-2017 10:26:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

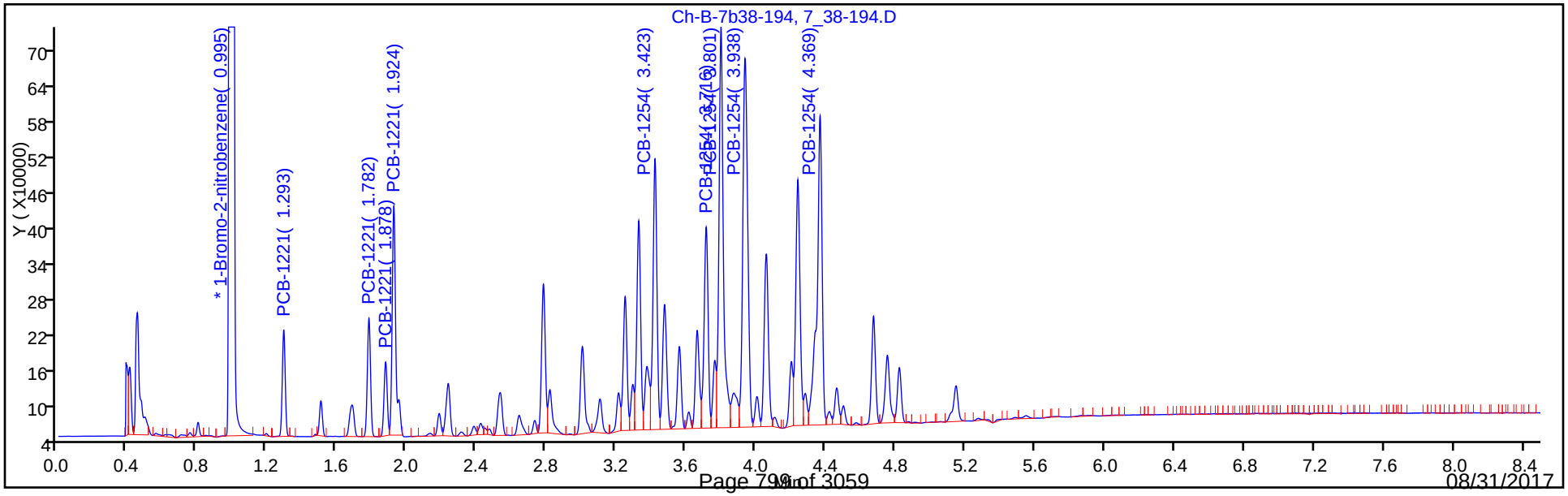
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-194.D

Injection Date:	29-Aug-2017 12:39:16	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/7 Calibration Date: 08/29/2017 12:39

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_38-194.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0071		0.505	0.500	0.9	20.0
PCB-1221 Peak 2	Lin1		0.0086		0.389	0.500	-22.3*	20.0
PCB-1221 Peak 3	Lin1		0.0054		0.403	0.500	-19.5	20.0
PCB-1221 Peak 4	Lin1		0.0191		0.449	0.500	-10.2	20.0
PCB-1254 Peak 1	Lin1		0.0241		0.321	0.500	-35.8*	20.0
PCB-1254 Peak 2	Lin1		0.0184		0.336	0.500	-32.8*	20.0
PCB-1254 Peak 3	Lin1		0.0399		0.336	0.500	-32.9*	20.0
PCB-1254 Peak 4	Lin1		0.0410		0.340	0.500	-32.0*	20.0
PCB-1254 Peak 5	Lin1		0.0364		0.359	0.500	-28.2*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/7 Calibration Date: 08/29/2017 12:39

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 15:56

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 16:28

Lab File ID: 7_38-194.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1221 Peak 1	1.29	1.26	1.32
PCB-1221 Peak 2	1.78	1.75	1.81
PCB-1221 Peak 3	1.88	1.85	1.91
PCB-1221 Peak 4	1.92	1.89	1.95
PCB-1254 Peak 1	3.42	3.39	3.45
PCB-1254 Peak 2	3.72	3.69	3.75
PCB-1254 Peak 3	3.80	3.77	3.83
PCB-1254 Peak 4	3.94	3.91	3.97
PCB-1254 Peak 5	4.37	4.34	4.40

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-194.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 29-Aug-2017 12:39:16 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:26:34 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:26:34

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.138	1.138	0.000	14444088	0.5000	0.5000	
2	0.995	0.995	0.000	29815322	0.5000	0.5000	
						RPD = 0.00	
5 PCB-1221							
1	1.595	1.595	0.000	112874	0.5000	0.5545	
1	2.185	2.185	0.000	162513	0.5000	0.5014	
1	2.262	2.262	0.000	101149	0.5000	0.5140	
1	2.310	2.310	0.000	373672	0.5000	0.5162	
		Average of Peak Amounts =				0.5215	
2	1.293	1.293	0.000	211094	0.5000	0.5046	
2	1.782	1.782	0.000	255728	0.5000	0.3885	
2	1.878	1.878	0.000	160439	0.5000	0.4027	
2	1.924	1.924	0.000	569161	0.5000	0.4488	
		Average of Peak Amounts =				0.4362	
						RPD = 17.83	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
11 PCB-1254							
1	3.956	3.956	0.000	702422	0.5000	0.4674	
1	4.179	4.179	0.000	441203	0.5000	0.4478	
1	4.258	4.258	0.000	799006	0.5000	0.4486	
1	4.458	4.458	0.000	847381	0.5000	0.4698	
1	4.863	4.863	0.000	707371	0.5000	0.4651	
		Average of Peak Amounts =				0.4598	
2	3.423	3.423	0.000	717603	0.5000	0.3211	
2	3.716	3.716	0.000	549497	0.5000	0.3358	
2	3.801	3.801	0.000	1188463	0.5000	0.3357	
2	3.938	3.938	0.000	1221426	0.5000	0.3399	
2	4.369	4.369	0.000	1084428	0.5000	0.3588	
		Average of Peak Amounts =				0.3382	
						RPD = 30.45	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

21-54w/IS@0.5_00009 Amount Added: 1.00 Units: mL

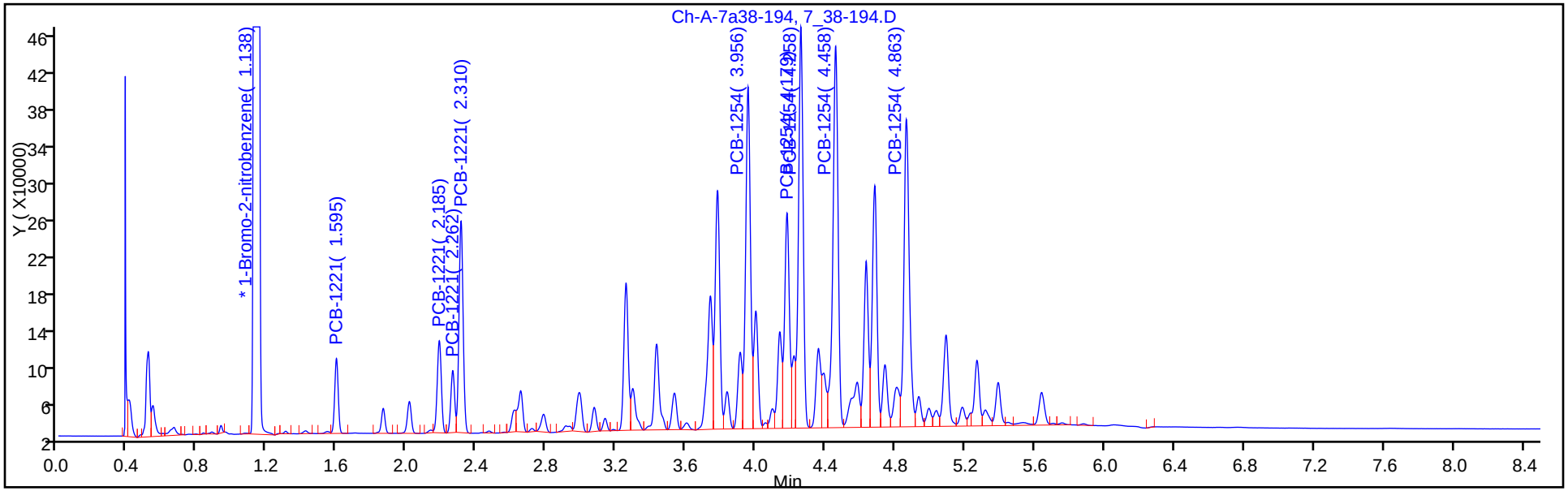
Report Date: 30-Aug-2017 10:26:35 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

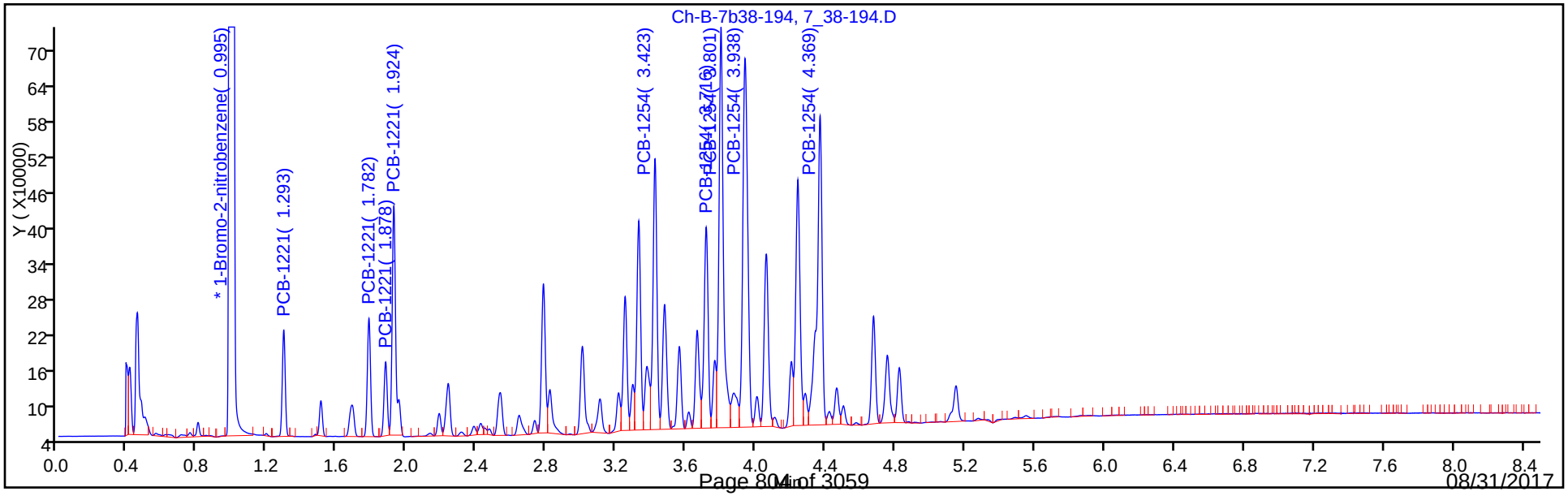
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-194.D

Injection Date:	29-Aug-2017 12:39:16	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/8 Calibration Date: 08/29/2017 12:55

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_38-195.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0217		0.503	0.500	0.6	20.0
PCB-1232 Peak 2	Lin1		0.0108		0.476	0.500	-4.8	20.0
PCB-1232 Peak 3	Lin1		0.0352		0.455	0.500	-8.9	20.0
PCB-1232 Peak 4	Lin1		0.0133		0.449	0.500	-10.1	20.0
PCB-1232 Peak 5	Lin1		0.0090		0.446	0.500	-10.7	20.0
PCB-1262 Peak 1	Lin1		0.0543		0.508	0.500	1.5	20.0
PCB-1262 Peak 2	Lin1		0.0367		0.441	0.500	-11.8	20.0
PCB-1262 Peak 3	Lin1		0.0945		0.481	0.500	-3.8	20.0
PCB-1262 Peak 4	Lin1		0.0372		0.593	0.500	18.6	20.0
PCB-1262 Peak 5	Lin1		0.0377		0.483	0.500	-3.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/8 Calibration Date: 08/29/2017 12:55

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_38-195.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	2.31	2.28	2.34
PCB-1232 Peak 2	2.78	2.75	2.81
PCB-1232 Peak 3	2.99	2.96	3.02
PCB-1232 Peak 4	3.07	3.04	3.10
PCB-1232 Peak 5	3.14	3.11	3.17
PCB-1262 Peak 1	4.99	4.96	5.02
PCB-1262 Peak 2	5.18	5.15	5.21
PCB-1262 Peak 3	5.39	5.36	5.42
PCB-1262 Peak 4	5.70	5.67	5.73
PCB-1262 Peak 5	5.76	5.73	5.79

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-195.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 29-Aug-2017 12:55:22 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:29:57 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:29:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.138	1.138	0.000	14444554	0.5000	0.5000	
2	0.994	0.994	0.000	29809648	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.309	2.309	0.000	313721	0.5000	0.5028	M
1	2.783	2.783	0.000	155597	0.5000	0.4762	M
1	2.988	2.988	0.000	508938	0.5000	0.4553	M
1	3.073	3.073	0.000	192211	0.5000	0.4493	M
1	3.136	3.136	0.000	130507	0.5000	0.4463	M
		Average of Peak Amounts =				0.4660	
2	1.924	1.924	0.000	488868	0.5000	0.4495	
2	2.229	2.229	0.000	407559	0.5000	0.3707	
2	2.533	2.533	0.000	701561	0.5000	0.3356	
2	2.642	2.642	0.000	272435	0.5000	0.3413	
2	3.006	3.006	0.000	295232	0.5000	0.3361	
		Average of Peak Amounts =				0.3666	
						RPD = 23.86	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13	PCB-1262						M
1	4.992	4.992	0.000	783558	0.5000	0.5076	M
1	5.183	5.183	0.000	530053	0.5000	0.4411	M
1	5.389	5.389	0.000	1364594	0.5000	0.4811	M
1	5.704	5.704	0.000	536838	0.5000	0.5930	M
1	5.755	5.755	0.000	544459	0.5000	0.4832	M
		Average of Peak Amounts =				0.5012	
2	4.422	4.422	0.000	1010168	0.5000	0.3286	
2	4.677	4.677	0.000	880999	0.5000	0.3587	
2	4.823	4.823	0.000	1953156	0.5000	0.3338	
2	5.115	5.115	0.000	892604	0.5000	0.3601	
2	5.152	5.152	0.000	1287947	0.5000	0.3596	
		Average of Peak Amounts =				0.3482	
						RPD = 36.04	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00011 Amount Added: 1.00 Units: mL

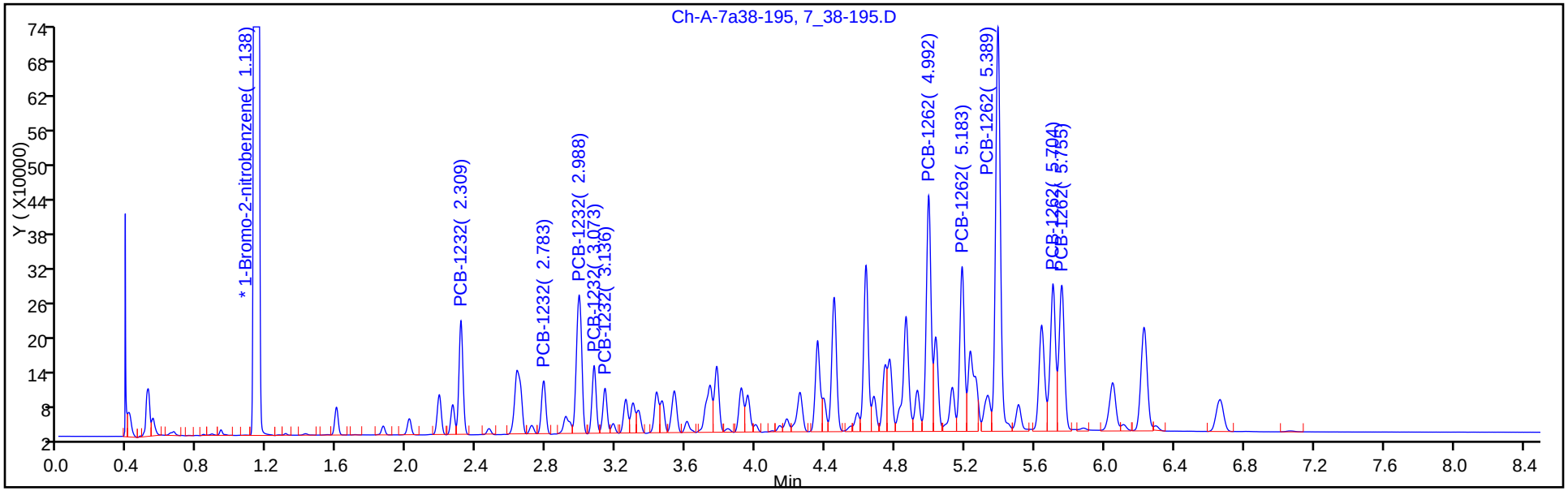
Report Date: 30-Aug-2017 10:29:58 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

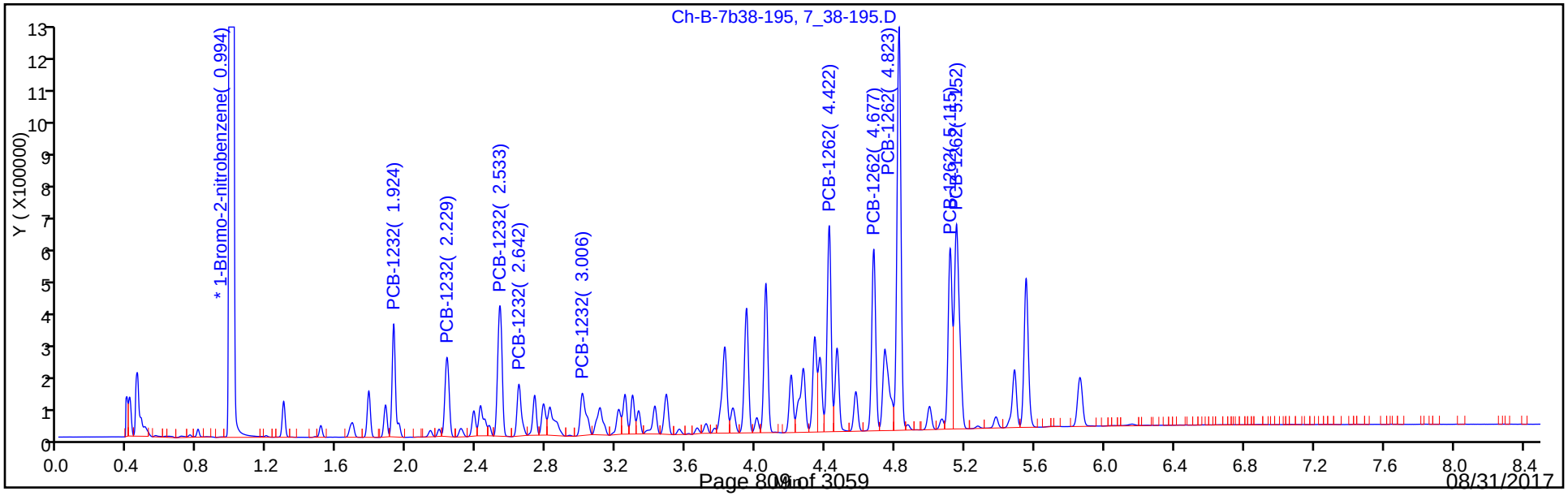
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-195.D

Injection Date:	29-Aug-2017 12:55:22	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Aug-2017 10:29:58 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-195.D

Injection Date: 29-Aug-2017 12:55:22 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

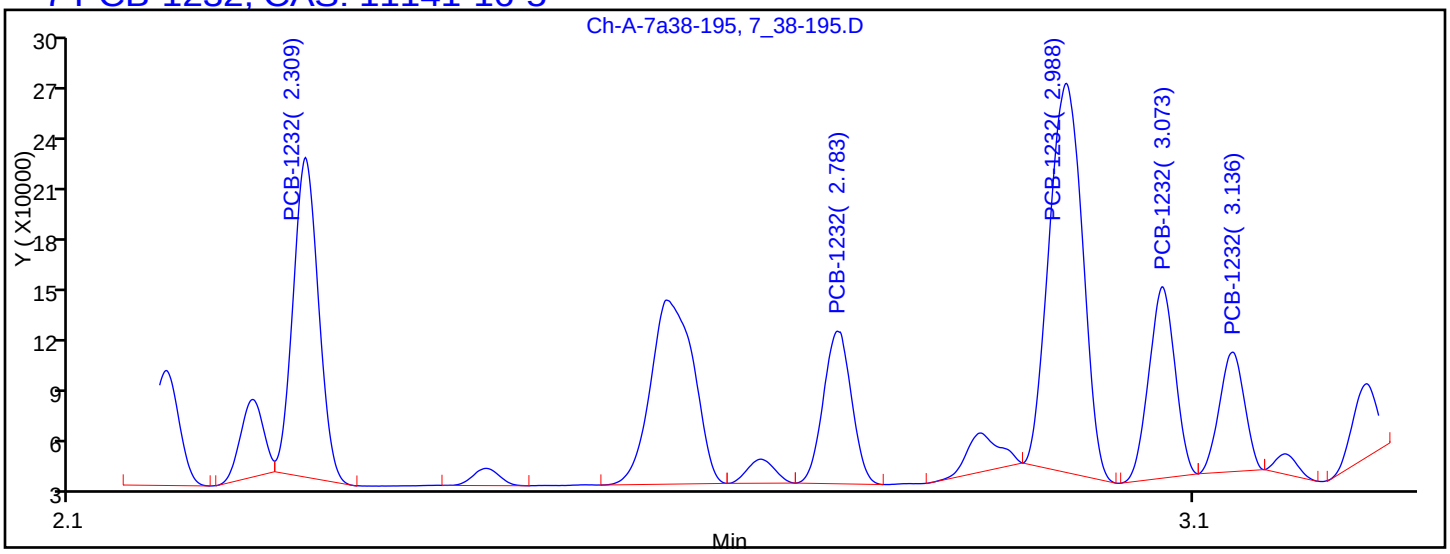
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

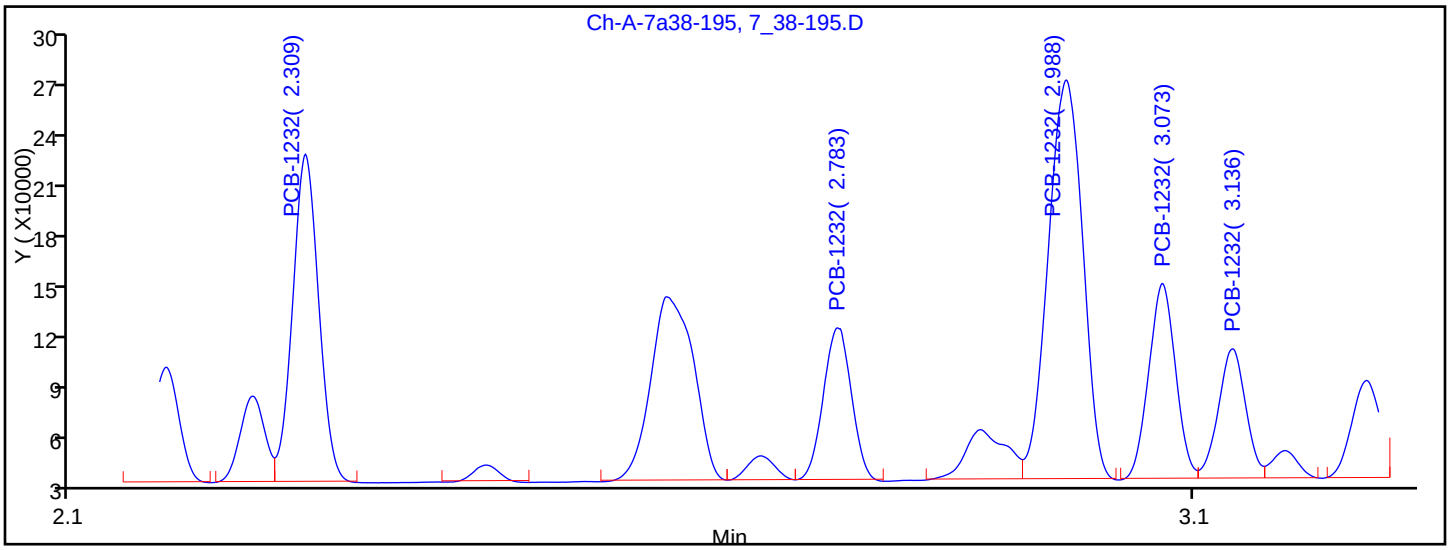
Column: Detector Ch-A-7A136

7 PCB-1232, CAS: 11141-16-5



Processing Integration Results

2.309	Response = 298990
2.783	Response = 158785
2.988	Response = 482933
3.073	Response = 184789
3.136	Response = 110292



Manual Integration Results

2.309	Response = 313721	M
2.783	Response = 155597	M
2.988	Response = 508938	M
3.073	Response = 192211	M
3.136	Response = 130507	M

Reviewer: owenj, 30-Aug-2017 10:29:44

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Aug-2017 10:29:58 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-195.D

Injection Date: 29-Aug-2017 12:55:22 Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

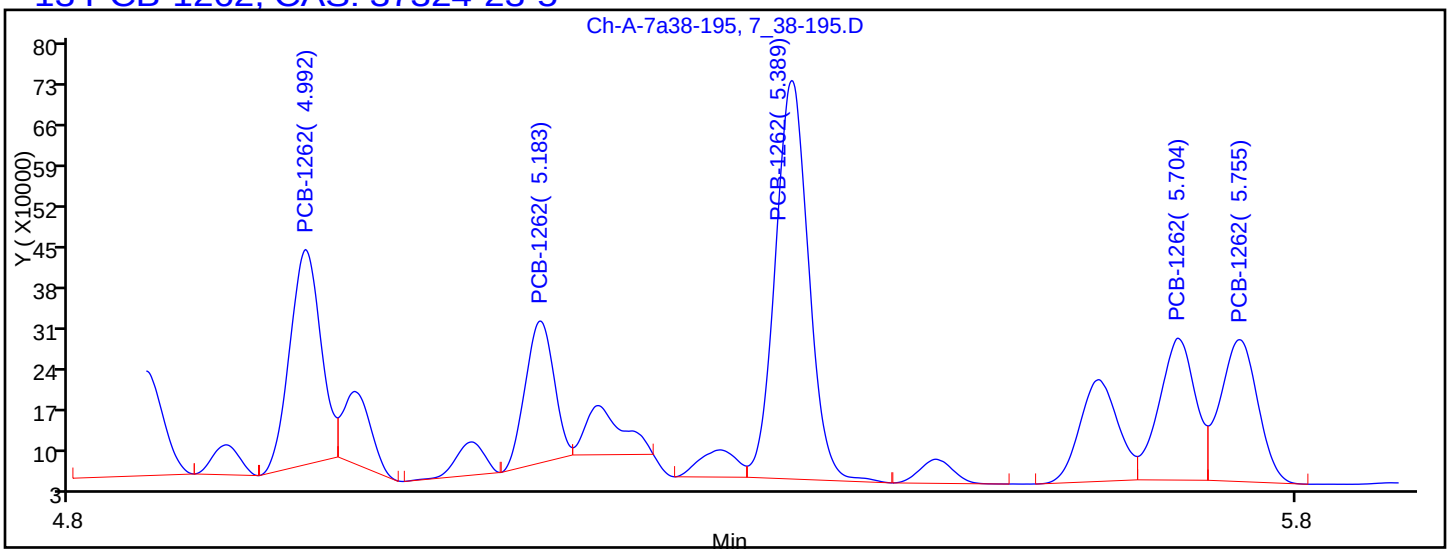
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

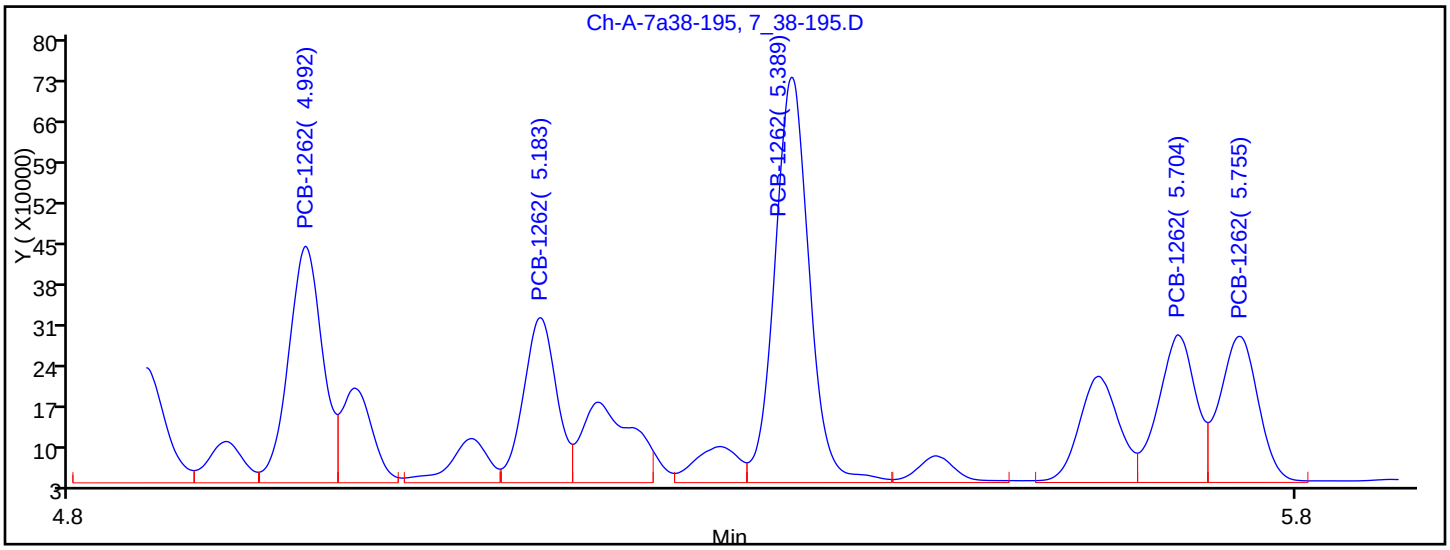
Column: Detector Ch-A-7A136

13 PCB-1262, CAS: 37324-23-5



Processing Integration Results

4.992	Response = 652678
5.183	Response = 396494
5.389	Response = 1293441
5.704	Response = 502785
5.755	Response = 515071



Manual Integration Results

4.992	Response = 783558	M
5.183	Response = 530053	M
5.389	Response = 1364594	M
5.704	Response = 536838	M
5.755	Response = 544459	M

Reviewer: owenj, 30-Aug-2017 10:29:47

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/8 Calibration Date: 08/29/2017 12:55

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_38-195.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Lin1		0.0164		0.449	0.500	-10.1	20.0
PCB-1232 Peak 2	Lin1		0.0137		0.371	0.500	-25.9*	20.0
PCB-1232 Peak 3	Lin1		0.0235		0.336	0.500	-32.9*	20.0
PCB-1232 Peak 4	Lin1		0.0091		0.341	0.500	-31.7*	20.0
PCB-1232 Peak 5	Lin1		0.0099		0.336	0.500	-32.8*	20.0
PCB-1262 Peak 1	Lin1		0.0339		0.329	0.500	-34.3*	20.0
PCB-1262 Peak 2	Lin1		0.0296		0.359	0.500	-28.3*	20.0
PCB-1262 Peak 3	Lin1		0.0655		0.334	0.500	-33.2*	20.0
PCB-1262 Peak 4	Lin1		0.0299		0.360	0.500	-28.0*	20.0
PCB-1262 Peak 5	Lin1		0.0432		0.360	0.500	-28.1*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/8 Calibration Date: 08/29/2017 12:55

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 16:59

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 17:31

Lab File ID: 7_38-195.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1232 Peak 1	1.92	1.89	1.95
PCB-1232 Peak 2	2.23	2.20	2.26
PCB-1232 Peak 3	2.53	2.50	2.56
PCB-1232 Peak 4	2.64	2.61	2.67
PCB-1232 Peak 5	3.01	2.98	3.04
PCB-1262 Peak 1	4.42	4.39	4.45
PCB-1262 Peak 2	4.68	4.65	4.71
PCB-1262 Peak 3	4.82	4.79	4.85
PCB-1262 Peak 4	5.12	5.09	5.15
PCB-1262 Peak 5	5.15	5.12	5.18

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-195.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 29-Aug-2017 12:55:22 ALS Bottle#: 0 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub8

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:29:57 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:29:57

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.138	1.138	0.000	14444554	0.5000	0.5000	
2	0.994	0.994	0.000	29809648	0.5000	0.5000	
						RPD = 0.00	
7 PCB-1232							M
1	2.309	2.309	0.000	313721	0.5000	0.5028	M
1	2.783	2.783	0.000	155597	0.5000	0.4762	M
1	2.988	2.988	0.000	508938	0.5000	0.4553	M
1	3.073	3.073	0.000	192211	0.5000	0.4493	M
1	3.136	3.136	0.000	130507	0.5000	0.4463	M
		Average of Peak Amounts =				0.4660	
2	1.924	1.924	0.000	488868	0.5000	0.4495	
2	2.229	2.229	0.000	407559	0.5000	0.3707	
2	2.533	2.533	0.000	701561	0.5000	0.3356	
2	2.642	2.642	0.000	272435	0.5000	0.3413	
2	3.006	3.006	0.000	295232	0.5000	0.3361	
		Average of Peak Amounts =				0.3666	
						RPD = 23.86	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
13	PCB-1262						M
1	4.992	4.992	0.000	783558	0.5000	0.5076	M
1	5.183	5.183	0.000	530053	0.5000	0.4411	M
1	5.389	5.389	0.000	1364594	0.5000	0.4811	M
1	5.704	5.704	0.000	536838	0.5000	0.5930	M
1	5.755	5.755	0.000	544459	0.5000	0.4832	M
		Average of Peak Amounts =				0.5012	
2	4.422	4.422	0.000	1010168	0.5000	0.3286	
2	4.677	4.677	0.000	880999	0.5000	0.3587	
2	4.823	4.823	0.000	1953156	0.5000	0.3338	
2	5.115	5.115	0.000	892604	0.5000	0.3601	
2	5.152	5.152	0.000	1287947	0.5000	0.3596	
		Average of Peak Amounts =				0.3482	
						RPD = 36.04	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Review Flags

M - Manually Integrated

Reagents:

32-62w/IS@0.5_00011 Amount Added: 1.00 Units: mL

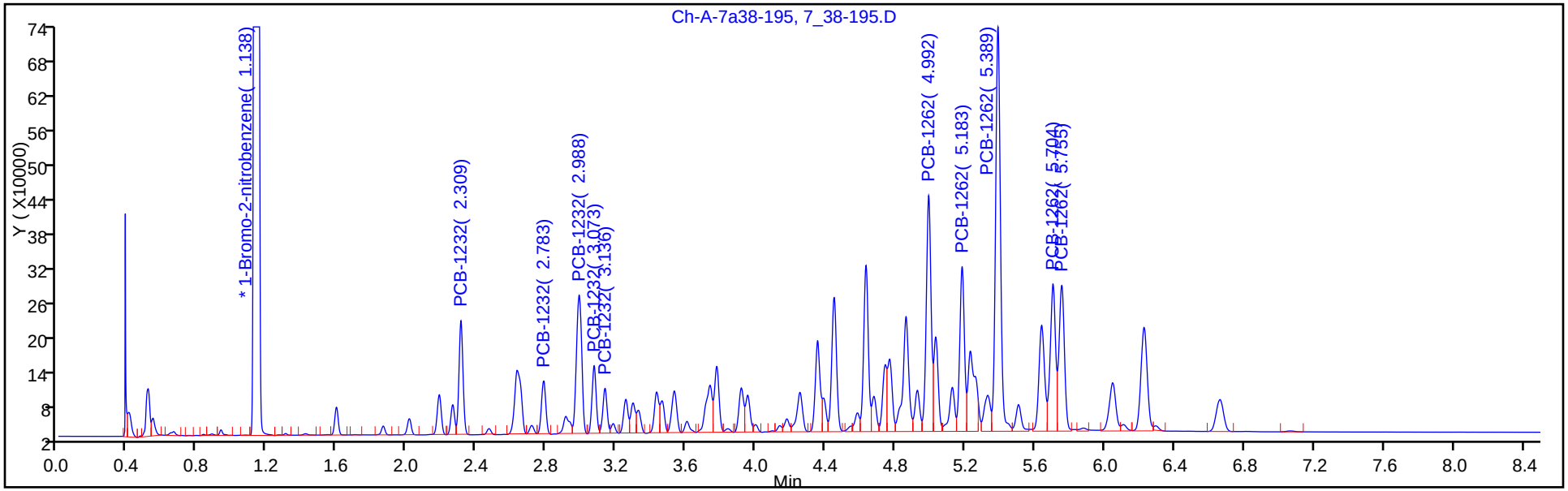
Report Date: 30-Aug-2017 10:29:59 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

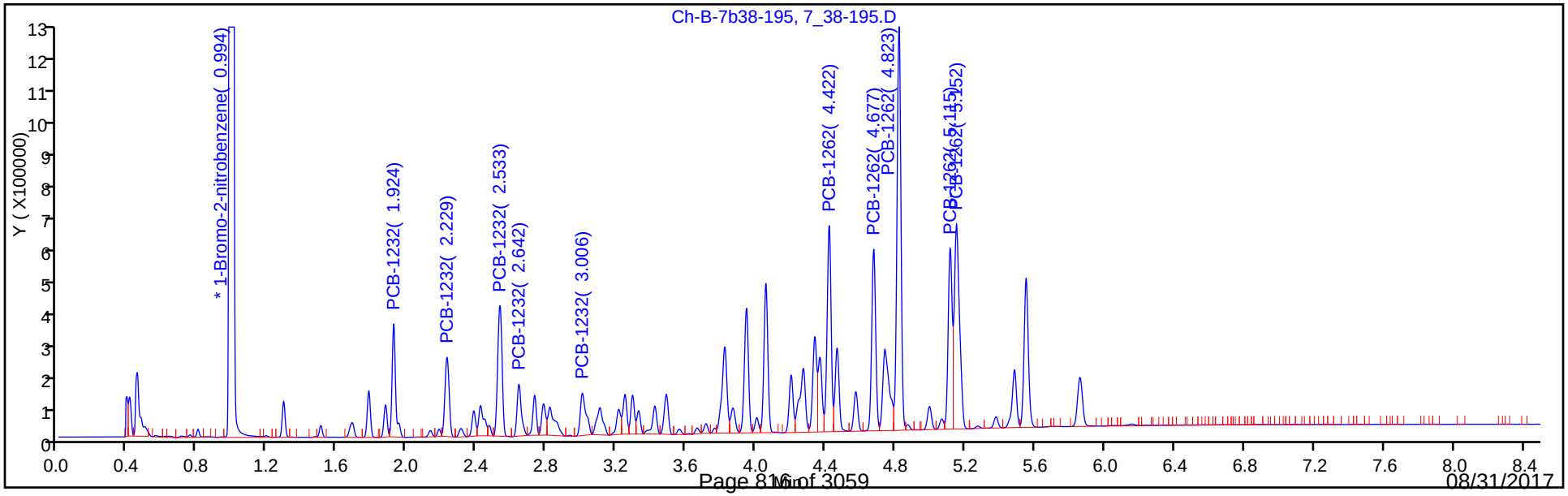
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-195.D

Injection Date:	29-Aug-2017 12:55:22	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/9 Calibration Date: 08/29/2017 13:11

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_38-196.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0635		0.467	0.500	-6.7	20.0
PCB-1242 Peak 2	Lin1		0.0238		0.462	0.500	-7.6	20.0
PCB-1242 Peak 3	Lin1		0.0179		0.457	0.500	-8.5	20.0
PCB-1242 Peak 4	Lin1		0.0207		0.451	0.500	-9.9	20.0
PCB-1242 Peak 5	Lin1		0.0290		0.444	0.500	-11.2	20.0
PCB-1268 Peak 1	Lin1		0.1114		0.516	0.500	3.2	20.0
PCB-1268 Peak 2	Lin1		0.0969		0.486	0.500	-2.9	20.0
PCB-1268 Peak 3	Lin1		0.0852		0.509	0.500	1.7	20.0
PCB-1268 Peak 4	Lin1		0.0321		0.426	0.500	-14.8	20.0
PCB-1268 Peak 5	Lin1		0.2622		0.488	0.500	-2.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/9 Calibration Date: 08/29/2017 13:11

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_38-196.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.99	2.96	3.02
PCB-1242 Peak 2	3.07	3.04	3.10
PCB-1242 Peak 3	3.43	3.40	3.46
PCB-1242 Peak 4	3.53	3.50	3.56
PCB-1242 Peak 5	3.74	3.71	3.77
PCB-1268 Peak 1	5.71	5.68	5.74
PCB-1268 Peak 2	5.75	5.72	5.78
PCB-1268 Peak 3	6.03	6.00	6.06
PCB-1268 Peak 4	6.23	6.20	6.26
PCB-1268 Peak 5	6.66	6.63	6.69

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-196.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 29-Aug-2017 13:11:36 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:30:22 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:30:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.137	1.137	0.000	14394266	0.5000	0.5000	
2	0.994	0.994	0.000	29893900	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	2.988	2.988	0.000	914406	0.5000	0.4667	
1	3.073	3.073	0.000	341873	0.5000	0.4622	
1	3.431	3.431	0.000	257149	0.5000	0.4574	
1	3.533	3.533	0.000	298145	0.5000	0.4507	
1	3.738	3.738	0.000	417113	0.5000	0.4438	
		Average of Peak Amounts =				0.4562	
2	2.533	2.533	0.000	1239872	0.5000	0.3451	
2	2.642	2.642	0.000	469646	0.5000	0.3350	
2	3.006	3.006	0.000	552176	0.5000	0.3378	
2	3.251	3.251	0.000	371236	0.5000	0.3009	
2	3.293	3.293	0.000	345660	0.5000	0.3279	
		Average of Peak Amounts =				0.3293	
						RPD = 32.29	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.705	5.705	0.000	1603567	0.5000	0.5162	
1	5.753	5.753	0.000	1395365	0.5000	0.4856	
1	6.030	6.030	0.000	1225825	0.5000	0.5086	
1	6.228	6.228	0.000	461903	0.5000	0.4261	
1	6.662	6.662	0.000	3774176	0.5000	0.4880	
		Average of Peak Amounts =				0.4849	
2	5.115	5.115	0.000	2371191	0.5000	0.3692	
2	5.154	5.154	0.000	2257137	0.5000	0.3826	
2	5.378	5.378	0.000	1876464	0.5000	0.3746	
2	5.550	5.550	0.000	864244	0.5000	0.3788	
2	5.859	5.859	0.000	7183282	0.5000	0.4157	
		Average of Peak Amounts =				0.3842	
						RPD = 23.17	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

42-68w/IS@0.5_00011 Amount Added: 1.00 Units: mL

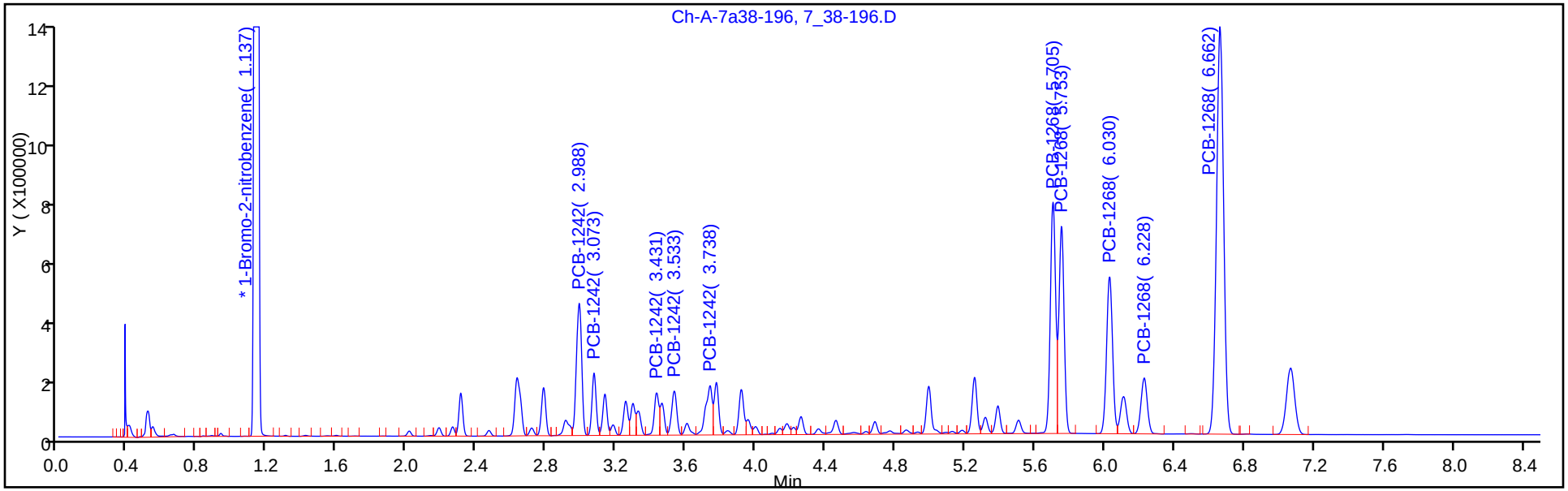
Report Date: 30-Aug-2017 10:30:22 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

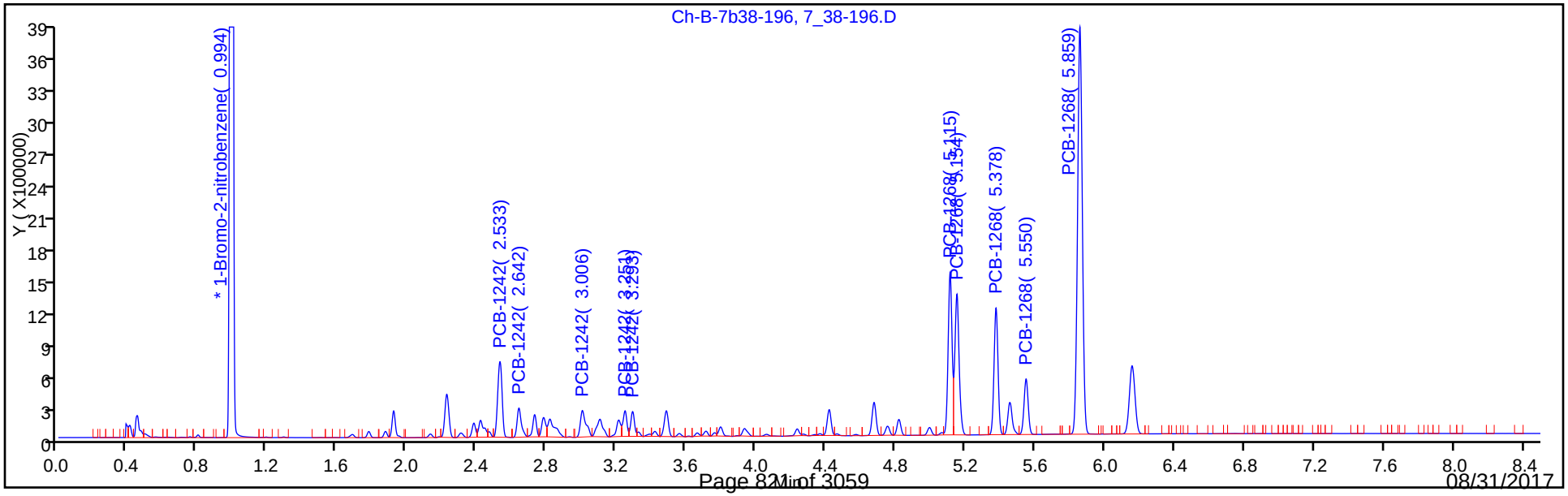
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-196.D

Injection Date:	29-Aug-2017 13:11:36	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/9 Calibration Date: 08/29/2017 13:11

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_38-196.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Lin1		0.0415		0.345	0.500	-31.0*	20.0
PCB-1242 Peak 2	Lin1		0.0157		0.335	0.500	-33.0*	20.0
PCB-1242 Peak 3	Lin1		0.0185		0.338	0.500	-32.4*	20.0
PCB-1242 Peak 4	Lin1		0.0124		0.301	0.500	-39.8*	20.0
PCB-1242 Peak 5	Lin1		0.0116		0.328	0.500	-34.4*	20.0
PCB-1268 Peak 1	Lin1		0.0793		0.369	0.500	-26.2*	20.0
PCB-1268 Peak 2	Lin1		0.0755		0.383	0.500	-23.5*	20.0
PCB-1268 Peak 3	Lin1		0.0628		0.375	0.500	-25.1*	20.0
PCB-1268 Peak 4	Lin1		0.0289		0.379	0.500	-24.2*	20.0
PCB-1268 Peak 5	Lin1		0.2403		0.416	0.500	-16.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/9 Calibration Date: 08/29/2017 13:11

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 18:03

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 18:35

Lab File ID: 7_38-196.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1242 Peak 1	2.53	2.50	2.56
PCB-1242 Peak 2	2.64	2.61	2.67
PCB-1242 Peak 3	3.01	2.98	3.04
PCB-1242 Peak 4	3.25	3.22	3.28
PCB-1242 Peak 5	3.29	3.26	3.32
PCB-1268 Peak 1	5.12	5.09	5.15
PCB-1268 Peak 2	5.15	5.12	5.18
PCB-1268 Peak 3	5.38	5.35	5.41
PCB-1268 Peak 4	5.55	5.52	5.58
PCB-1268 Peak 5	5.86	5.83	5.89

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-196.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 29-Aug-2017 13:11:36 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub9

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:30:22 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:30:22

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.137	1.137	0.000	14394266	0.5000	0.5000	
2	0.994	0.994	0.000	29893900	0.5000	0.5000	
						RPD = 0.00	
8 PCB-1242							
1	2.988	2.988	0.000	914406	0.5000	0.4667	
1	3.073	3.073	0.000	341873	0.5000	0.4622	
1	3.431	3.431	0.000	257149	0.5000	0.4574	
1	3.533	3.533	0.000	298145	0.5000	0.4507	
1	3.738	3.738	0.000	417113	0.5000	0.4438	
		Average of Peak Amounts =				0.4562	
2	2.533	2.533	0.000	1239872	0.5000	0.3451	
2	2.642	2.642	0.000	469646	0.5000	0.3350	
2	3.006	3.006	0.000	552176	0.5000	0.3378	
2	3.251	3.251	0.000	371236	0.5000	0.3009	
2	3.293	3.293	0.000	345660	0.5000	0.3279	
		Average of Peak Amounts =				0.3293	
						RPD = 32.29	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
14 PCB-1268							
1	5.705	5.705	0.000	1603567	0.5000	0.5162	
1	5.753	5.753	0.000	1395365	0.5000	0.4856	
1	6.030	6.030	0.000	1225825	0.5000	0.5086	
1	6.228	6.228	0.000	461903	0.5000	0.4261	
1	6.662	6.662	0.000	3774176	0.5000	0.4880	
		Average of Peak Amounts =				0.4849	
2	5.115	5.115	0.000	2371191	0.5000	0.3692	
2	5.154	5.154	0.000	2257137	0.5000	0.3826	
2	5.378	5.378	0.000	1876464	0.5000	0.3746	
2	5.550	5.550	0.000	864244	0.5000	0.3788	
2	5.859	5.859	0.000	7183282	0.5000	0.4157	
		Average of Peak Amounts =				0.3842	
						RPD = 23.17	

QC Flag Legend

Processing Flags

s - Failed ISTD Recovery Test

Reagents:

42-68w/IS@0.5_00011 Amount Added: 1.00 Units: mL

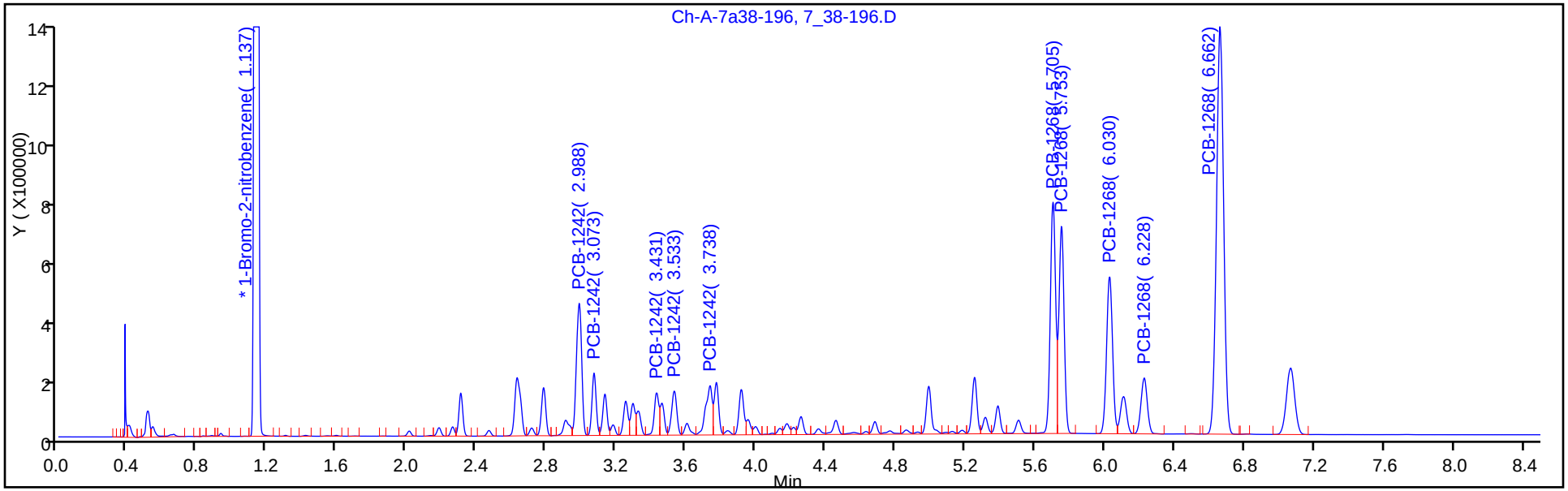
Report Date: 30-Aug-2017 10:30:23 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

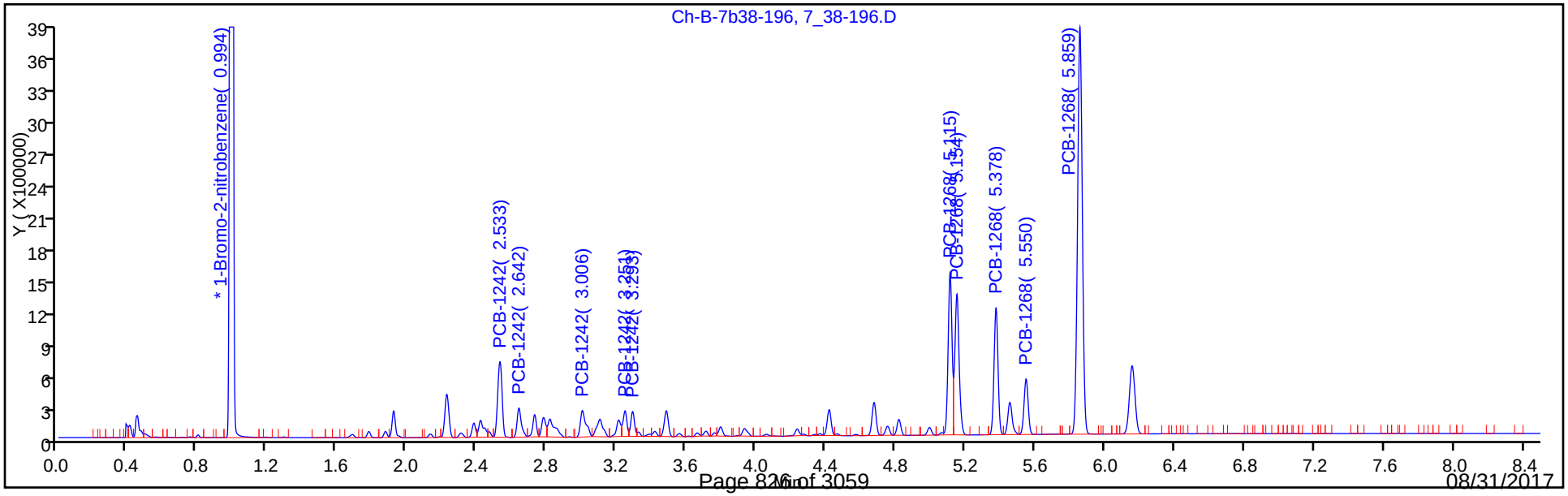
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-196.D

Injection Date:	29-Aug-2017 13:11:36	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/10 Calibration Date: 08/29/2017 13:25

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_38-197.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0390		0.444	0.500	-11.1	20.0
PCB-1248 Peak 2	Lin1		0.0297		0.417	0.500	-16.6	20.0
PCB-1248 Peak 3	Lin1		0.0475		0.406	0.500	-18.7	20.0
PCB-1248 Peak 4	Lin1		0.0358		0.472	0.500	-5.6	20.0
PCB-1248 Peak 5	Lin1		0.0292		0.400	0.500	-20.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/10 Calibration Date: 08/29/2017 13:25

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_38-197.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.43	3.40	3.46
PCB-1248 Peak 2	3.53	3.50	3.56
PCB-1248 Peak 3	3.74	3.71	3.77
PCB-1248 Peak 4	3.78	3.75	3.81
PCB-1248 Peak 5	3.92	3.89	3.95

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-197.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 29-Aug-2017 13:25:01 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:30:49 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:30:49

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.137	1.137	0.000	14268974	0.5000	0.5000	
2	0.993	0.993	0.000	29535996	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.432	3.432	0.000	556518	0.5000	0.4445	
1	3.533	3.533	0.000	423497	0.5000	0.4169	
1	3.738	3.738	0.000	678267	0.5000	0.4063	
1	3.775	3.775	0.000	511434	0.5000	0.4719	
1	3.917	3.917	0.000	416158	0.5000	0.4002	
		Average of Peak Amounts =				0.4280	
2	3.004	3.004	0.000	750356	0.5000	0.4472	
2	3.104	3.104	0.000	594311	0.5000	0.3820	
2	3.249	3.249	0.000	647153	0.5000	0.3977	
2	3.293	3.293	0.000	534128	0.5000	0.3466	
2	3.486	3.486	0.000	623665	0.5000	0.3501	
		Average of Peak Amounts =				0.3847	
						RPD = 10.64	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

Reagents:

1248w/IS@ 0.5_00011 Amount Added: 1.00 Units: mL

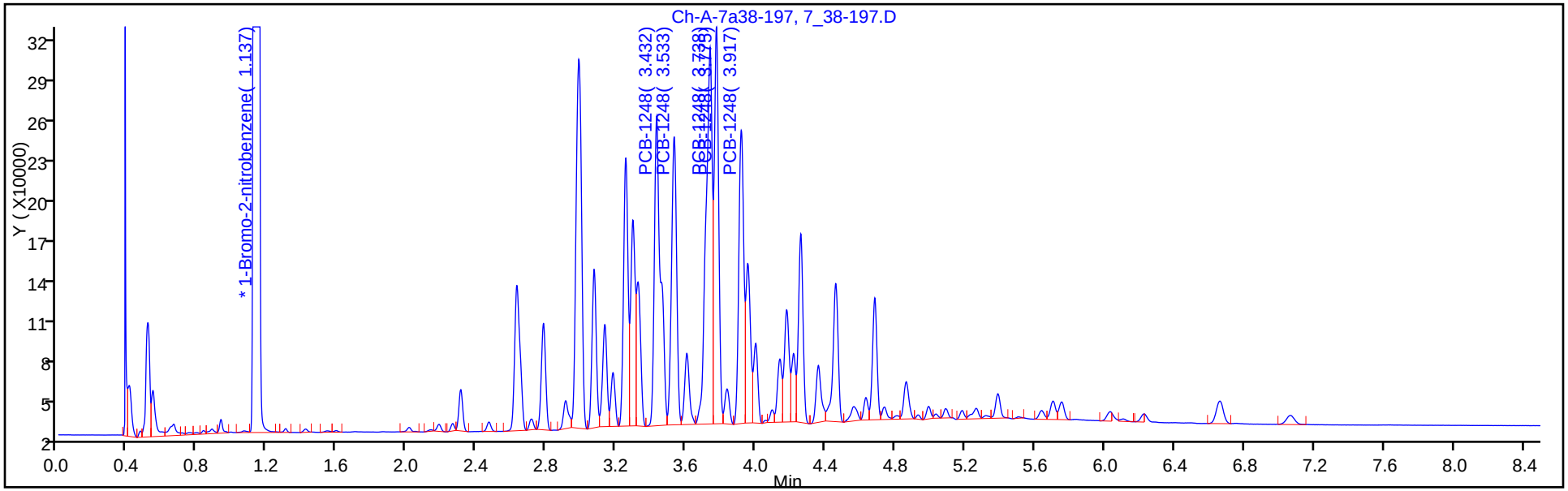
Report Date: 30-Aug-2017 10:30:49 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

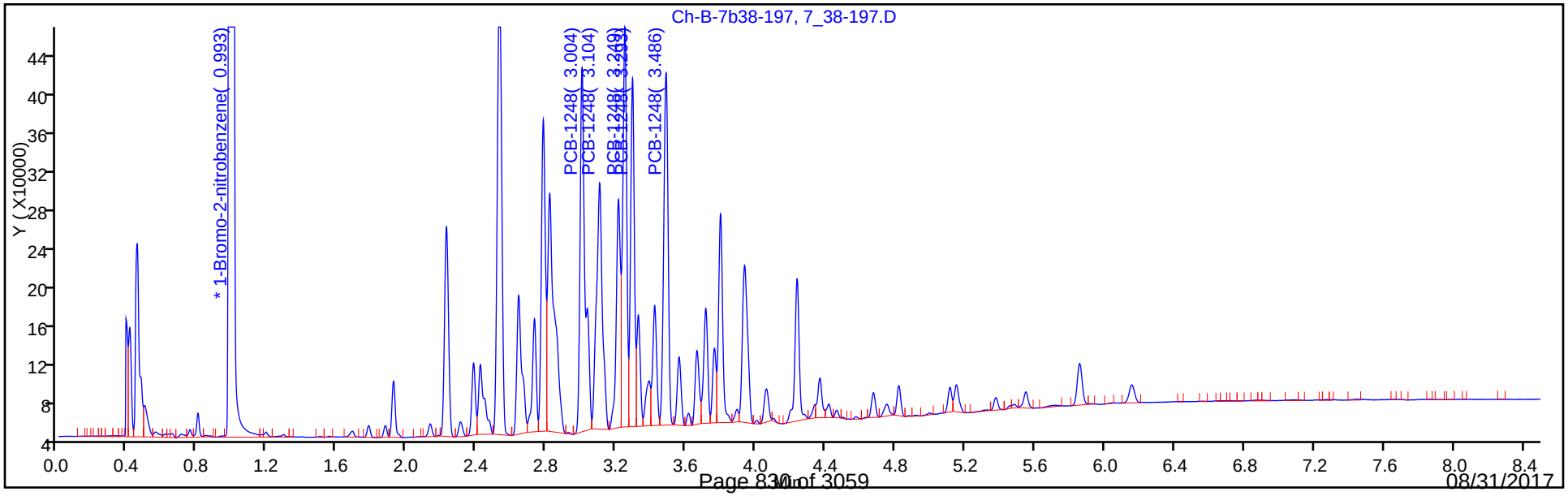
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-197.D

Injection Date:	29-Aug-2017 13:25:01	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/10 Calibration Date: 08/29/2017 13:25

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_38-197.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0254		0.447	0.500	-10.6	20.0
PCB-1248 Peak 2	Lin1		0.0201		0.382	0.500	-23.6*	20.0
PCB-1248 Peak 3	Lin1		0.0219		0.398	0.500	-20.5*	20.0
PCB-1248 Peak 4	Lin1		0.0181		0.347	0.500	-30.7*	20.0
PCB-1248 Peak 5	Lin1		0.0211		0.350	0.500	-30.0*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: CCV 480-374407/10 Calibration Date: 08/29/2017 13:25

Instrument ID: HP6890-7 Calib Start Date: 03/28/2017 19:07

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 03/28/2017 19:39

Lab File ID: 7_38-197.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1248 Peak 1	3.00	2.97	3.03
PCB-1248 Peak 2	3.10	3.07	3.13
PCB-1248 Peak 3	3.25	3.22	3.28
PCB-1248 Peak 4	3.29	3.26	3.32
PCB-1248 Peak 5	3.49	3.46	3.52

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-197.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 29-Aug-2017 13:25:01 ALS Bottle#: 0 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7
Sublist: chrom-7-IS PCB*sub10

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:30:49 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:30:49

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							s
1	1.137	1.137	0.000	14268974	0.5000	0.5000	
2	0.993	0.993	0.000	29535996	0.5000	0.5000	
						RPD = 0.00	
10 PCB-1248							
1	3.432	3.432	0.000	556518	0.5000	0.4445	
1	3.533	3.533	0.000	423497	0.5000	0.4169	
1	3.738	3.738	0.000	678267	0.5000	0.4063	
1	3.775	3.775	0.000	511434	0.5000	0.4719	
1	3.917	3.917	0.000	416158	0.5000	0.4002	
		Average of Peak Amounts =				0.4280	
2	3.004	3.004	0.000	750356	0.5000	0.4472	
2	3.104	3.104	0.000	594311	0.5000	0.3820	
2	3.249	3.249	0.000	647153	0.5000	0.3977	
2	3.293	3.293	0.000	534128	0.5000	0.3466	
2	3.486	3.486	0.000	623665	0.5000	0.3501	
		Average of Peak Amounts =				0.3847	
						RPD = 10.64	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

Reagents:

1248w/IS@ 0.5_00011 Amount Added: 1.00 Units: mL

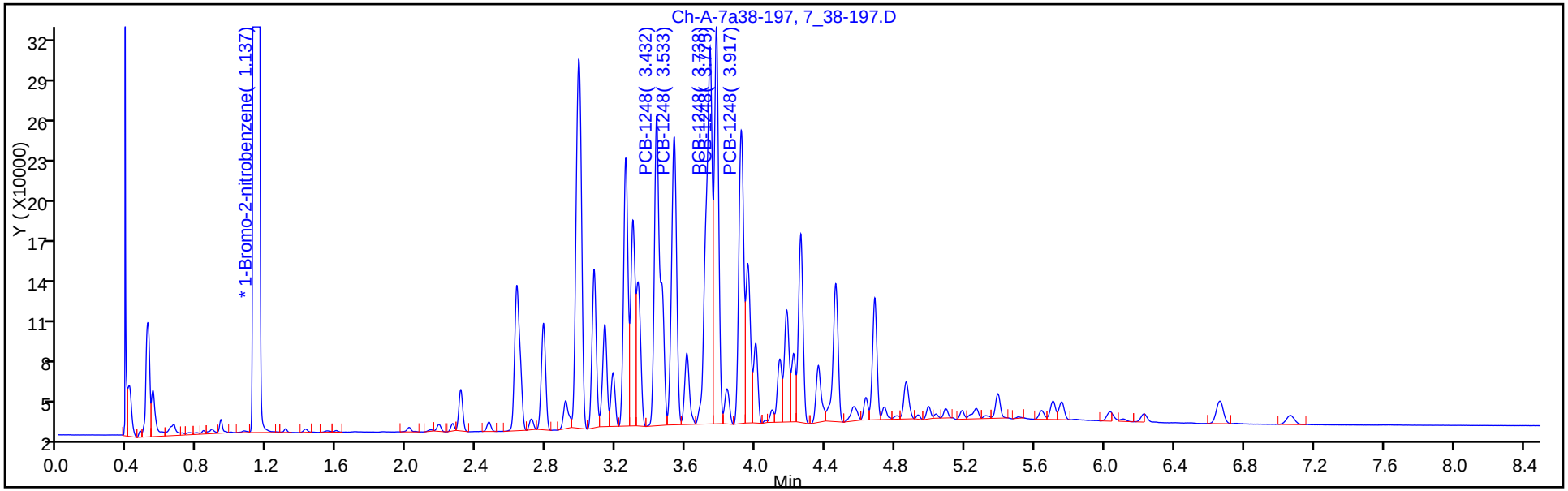
Report Date: 30-Aug-2017 10:30:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

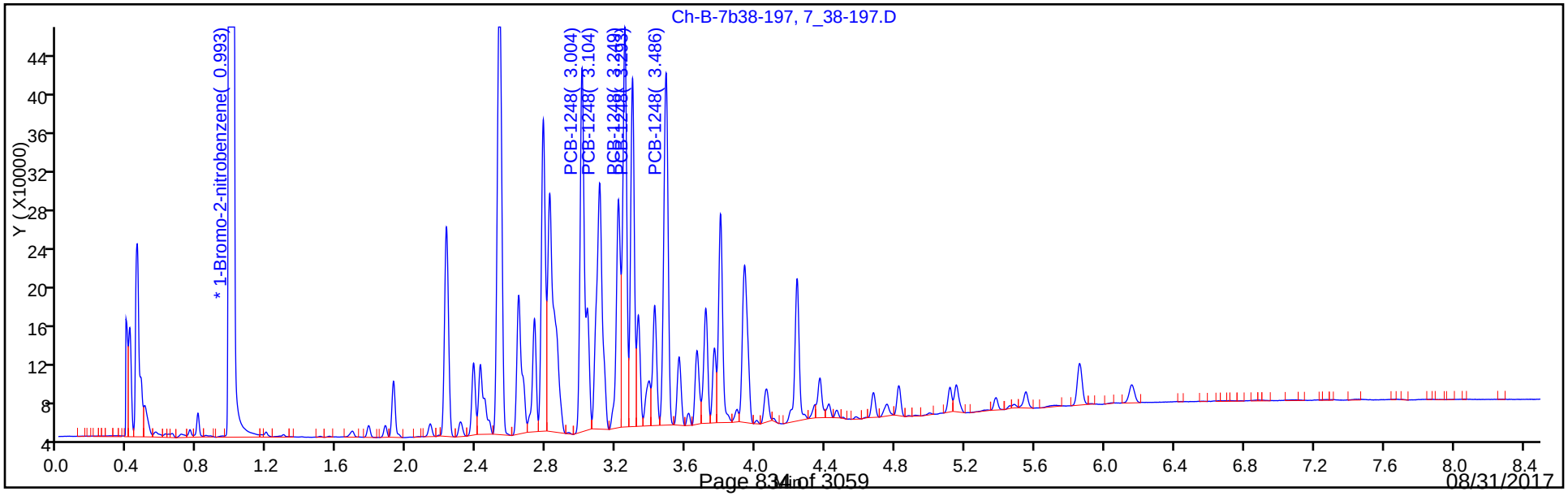
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-197.D

Injection Date:	29-Aug-2017 13:25:01	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	CCV			Worklist Smp#:	10
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-374278/1-A

Matrix: Water | Lab File ID: 7_38-199.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 250(mL) | Date Analyzed: 08/29/2017 13:57

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25
37324-23-5	PCB-1262	ND		0.50	0.25
11100-14-4	PCB-1268	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	61		39-121
2051-24-3	DCB Decachlorobiphenyl	40		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-199.D
Lims ID: MB 480-374278/1-A
Client ID:
Sample Type: MB
Inject. Date: 29-Aug-2017 13:57:15 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:32:12 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:32:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.138	1.139	-0.001	16097060	0.5000	0.5000	
2	0.994	0.994	0.000	35971288	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.048	2.048	0.000	487058	0.0200	0.0122	
2	1.553	1.553	0.001	766925	0.0200	0.009459	
						RPD = 25.11	
$ 15 DCB Decachlorobiphenyl							
1	7.066	7.068	-0.002	189965	0.0200	0.007974	
2	6.158	6.151	0.007	367246	0.0200	0.006814	
						RPD = 15.68	

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

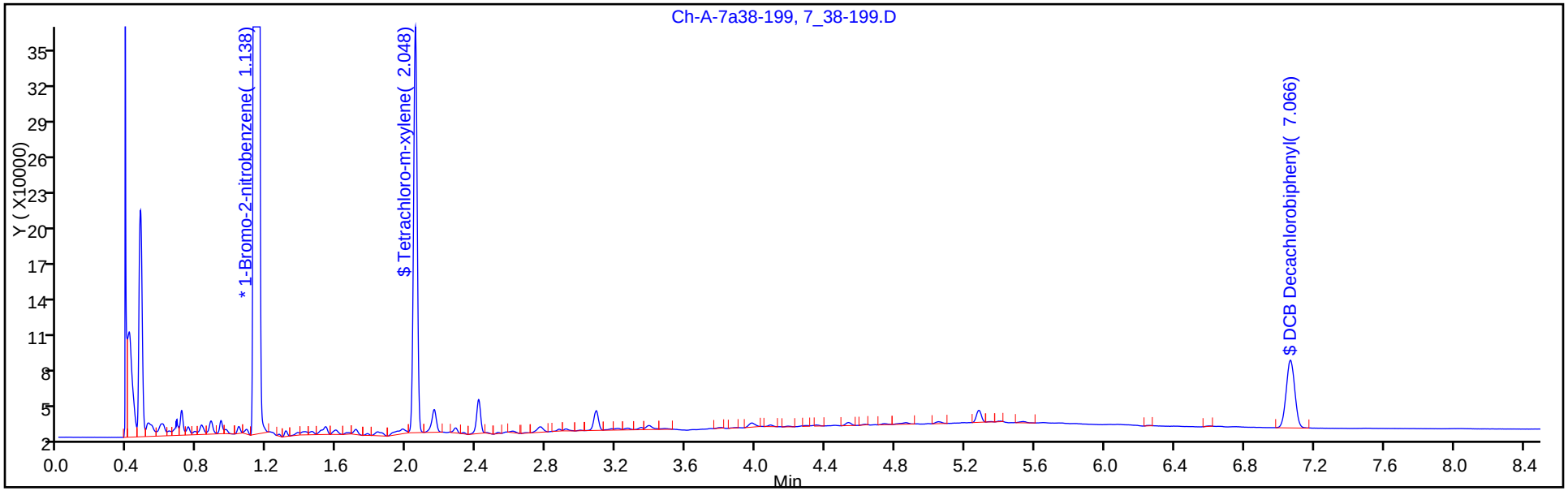
Report Date: 30-Aug-2017 10:32:13 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

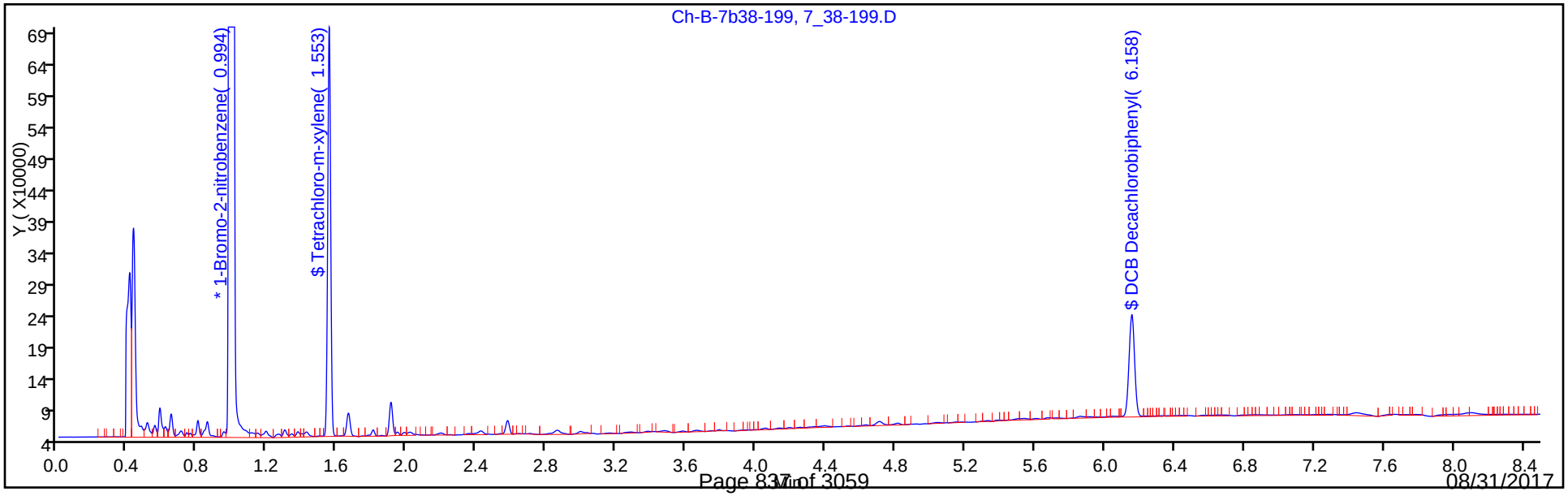
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-199.D

Injection Date:	29-Aug-2017 13:57:15	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	MB 480-374278/1-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-374278/1-A

Matrix: Water | Lab File ID: 7_38-199.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 250(mL) | Date Analyzed: 08/29/2017 13:57

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	47		39-121
2051-24-3	DCB Decachlorobiphenyl	34		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-199.D
Lims ID: MB 480-374278/1-A
Client ID:
Sample Type: MB
Inject. Date: 29-Aug-2017 13:57:15 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:32:12 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:32:12

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.138	1.139	-0.001	16097060	0.5000	0.5000	
2	0.994	0.994	0.000	35971288	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.048	2.048	0.000	487058	0.0200	0.0122	
2	1.553	1.553	0.001	766925	0.0200	0.009459	
						RPD = 25.11	
$ 15 DCB Decachlorobiphenyl							
1	7.066	7.068	-0.002	189965	0.0200	0.007974	
2	6.158	6.151	0.007	367246	0.0200	0.006814	
						RPD = 15.68	

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

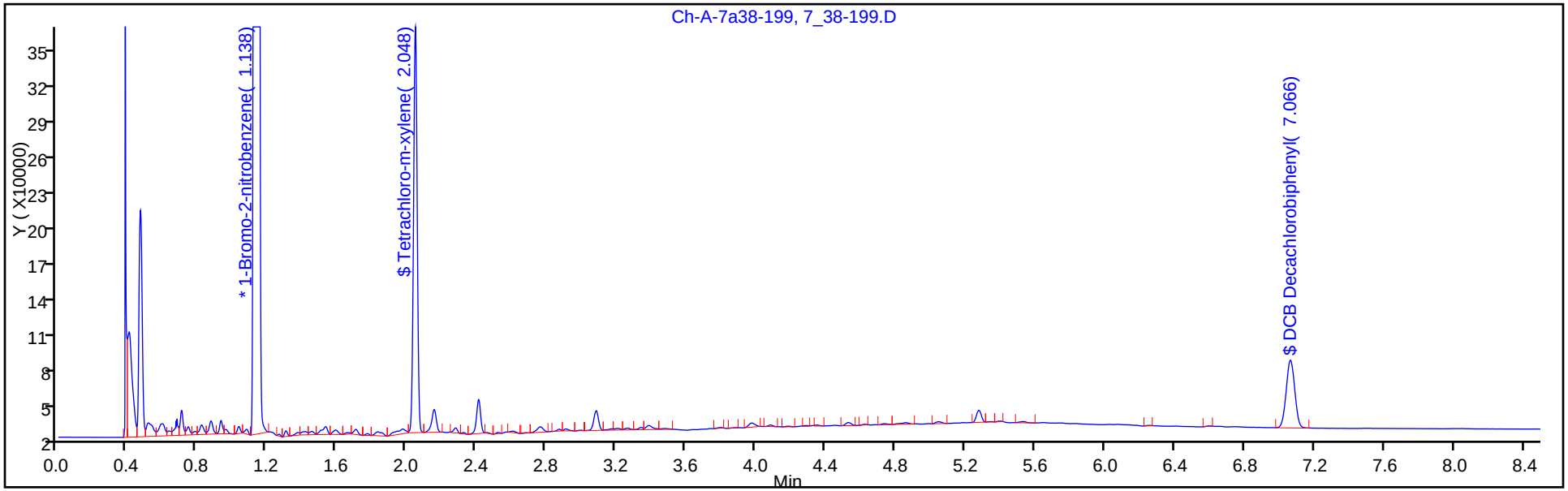
Report Date: 30-Aug-2017 10:32:13 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

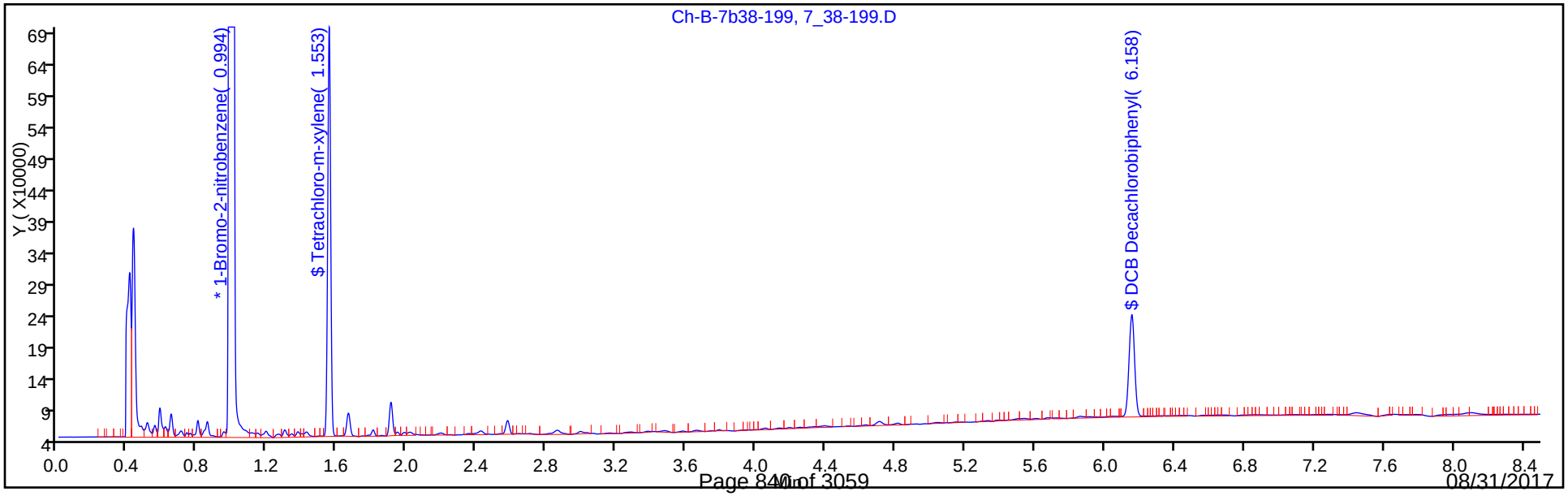
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-199.D

Injection Date:	29-Aug-2017 13:57:15	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	MB 480-374278/1-A			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-374278/2-A

Matrix: Water | Lab File ID: 7_38-200.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 250(mL) | Date Analyzed: 08/29/2017 14:13

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.90		0.50	0.18
11096-82-5	PCB-1260	2.72		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	67		39-121
2051-24-3	DCB Decachlorobiphenyl	35		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-200.D
Lims ID: LCS 480-374278/2-A
Client ID:
Sample Type: LCS
Inject. Date: 29-Aug-2017 14:13:28 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:32:50 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:32:50

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.138	1.139	-0.001	17137499	0.5000	0.5000	
2	0.995	0.994	0.001	38177765	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.048	2.048	0.000	571853	0.0200	0.0135	
2	1.553	1.553	0.001	829712	0.0200	0.009646	
						RPD = 33.14	
9 PCB-1016							
1	2.633	2.633	0.000	462970	0.5000	0.3489	
1	2.785	2.784	0.001	293980	0.5000	0.3571	
1	2.989	2.989	0.000	1002096	0.5000	0.3596	
1	3.073	3.073	0.000	402700	0.5000	0.3839	
1	3.136	3.136	0.000	262324	0.5000	0.3631	
		Average of Peak Amounts =				0.3625	
2	2.228	2.225	0.003	703842	0.5000	0.2570	
2	2.533	2.529	0.003	1369438	0.5000	0.2454	
2	2.641	2.638	0.003	522618	0.5000	0.2454	
2	2.732	2.728	0.004	350969	0.5000	0.2474	
2	3.004	3.001	0.003	602251	0.5000	0.2481	
		Average of Peak Amounts =				0.2487	
						RPD = 37.27	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.863	4.864	-0.001	807042	0.5000	0.3700	
1	4.993	4.993	0.000	438471	0.5000	0.3577	
1	5.185	5.184	0.001	375027	0.5000	0.3228	
1	5.390	5.390	0.000	977007	0.5000	0.3366	
1	5.640	5.640	0.000	434599	0.5000	0.3136	
		Average of Peak Amounts =				0.3401	
2	4.367	4.363	0.004	754174	0.5000	0.2697	
2	4.420	4.416	0.004	551521	0.5000	0.2156	
2	4.675	4.670	0.005	620837	0.5000	0.3154	
2	4.821	4.816	0.005	1388365	0.5000	0.2209	
2	5.148	5.144	0.004	856185	0.5000	0.2244	
		Average of Peak Amounts =				0.2492	
						RPD = 30.86	
$ 15 DCB Decachlorobiphenyl							
1	7.068	7.068	0.000	181074	0.0200	0.007068	
2	6.158	6.151	0.007	360918	0.0200	0.006282	
						RPD = 11.76	

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

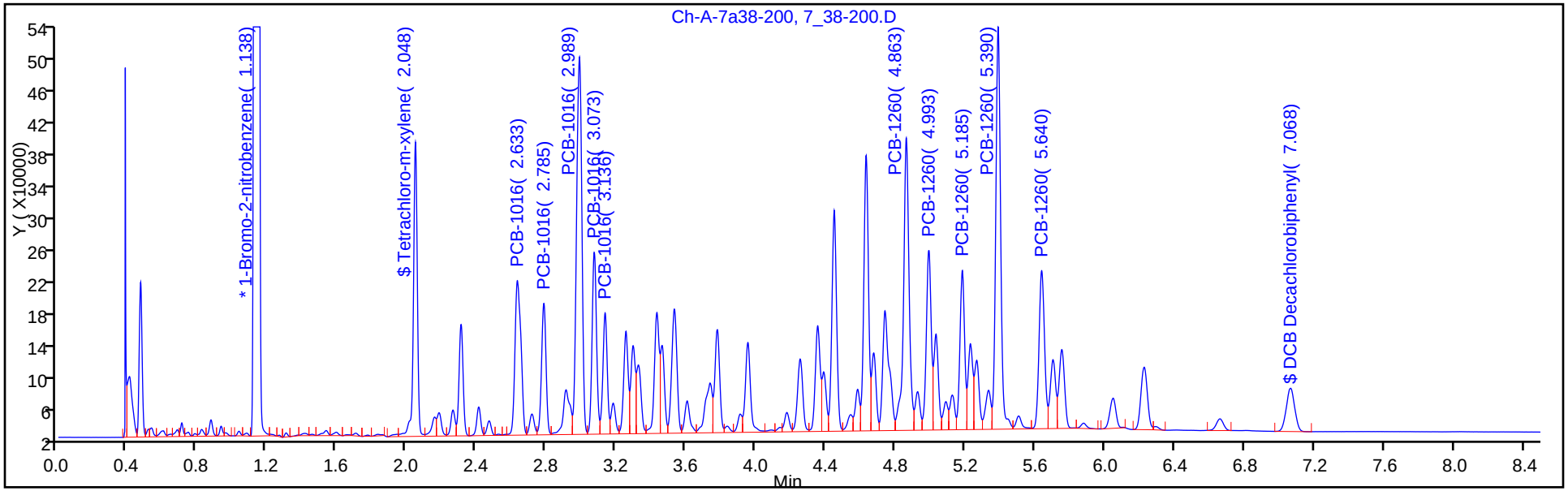
Report Date: 30-Aug-2017 10:32:50 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

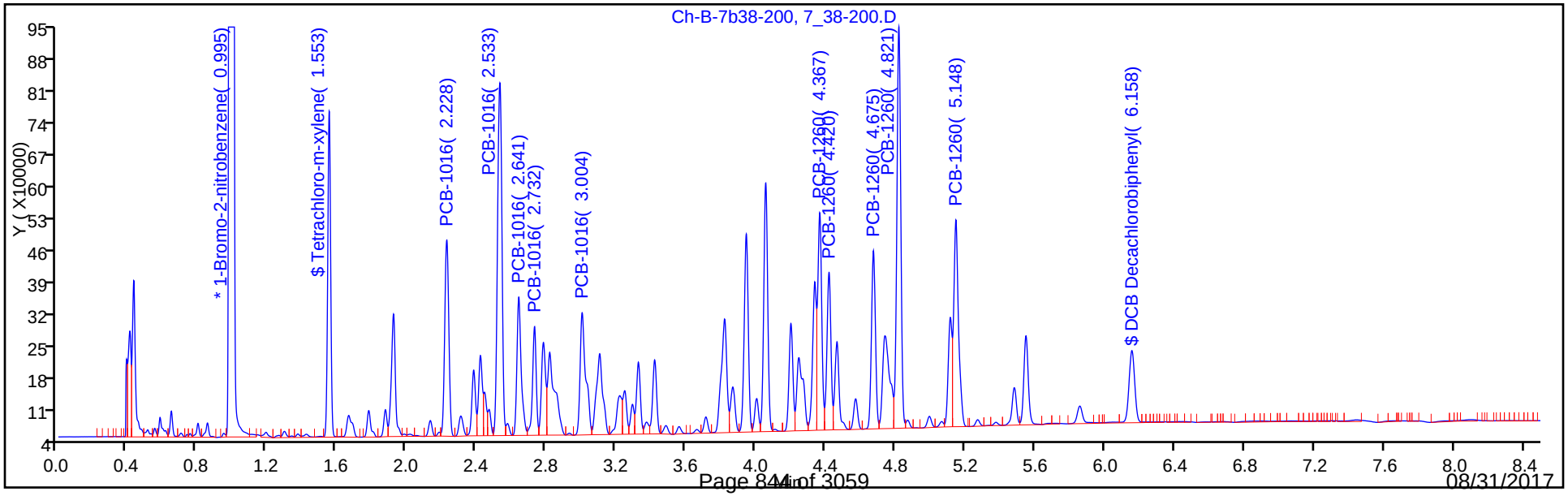
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-200.D

Injection Date:	29-Aug-2017 14:13:28	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	LCS 480-374278/2-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-374278/2-A

Matrix: Water | Lab File ID: 7_38-200.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 250(mL) | Date Analyzed: 08/29/2017 14:13

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	48		39-121
2051-24-3	DCB Decachlorobiphenyl	31		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-200.D
Lims ID: LCS 480-374278/2-A
Client ID:
Sample Type: LCS
Inject. Date: 29-Aug-2017 14:13:28 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:32:50 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:32:50

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.138	1.139	-0.001	17137499	0.5000	0.5000	
2	0.995	0.994	0.001	38177765	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							
1	2.048	2.048	0.000	571853	0.0200	0.0135	
2	1.553	1.553	0.001	829712	0.0200	0.009646	
						RPD = 33.14	
9 PCB-1016							
1	2.633	2.633	0.000	462970	0.5000	0.3489	
1	2.785	2.784	0.001	293980	0.5000	0.3571	
1	2.989	2.989	0.000	1002096	0.5000	0.3596	
1	3.073	3.073	0.000	402700	0.5000	0.3839	
1	3.136	3.136	0.000	262324	0.5000	0.3631	
		Average of Peak Amounts =				0.3625	
2	2.228	2.225	0.003	703842	0.5000	0.2570	
2	2.533	2.529	0.003	1369438	0.5000	0.2454	
2	2.641	2.638	0.003	522618	0.5000	0.2454	
2	2.732	2.728	0.004	350969	0.5000	0.2474	
2	3.004	3.001	0.003	602251	0.5000	0.2481	
		Average of Peak Amounts =				0.2487	
						RPD = 37.27	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							
1	4.863	4.864	-0.001	807042	0.5000	0.3700	
1	4.993	4.993	0.000	438471	0.5000	0.3577	
1	5.185	5.184	0.001	375027	0.5000	0.3228	
1	5.390	5.390	0.000	977007	0.5000	0.3366	
1	5.640	5.640	0.000	434599	0.5000	0.3136	
		Average of Peak Amounts =				0.3401	
2	4.367	4.363	0.004	754174	0.5000	0.2697	
2	4.420	4.416	0.004	551521	0.5000	0.2156	
2	4.675	4.670	0.005	620837	0.5000	0.3154	
2	4.821	4.816	0.005	1388365	0.5000	0.2209	
2	5.148	5.144	0.004	856185	0.5000	0.2244	
		Average of Peak Amounts =				0.2492	
						RPD = 30.86	
$ 15 DCB Decachlorobiphenyl							
1	7.068	7.068	0.000	181074	0.0200	0.007068	
2	6.158	6.151	0.007	360918	0.0200	0.006282	
						RPD = 11.76	

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

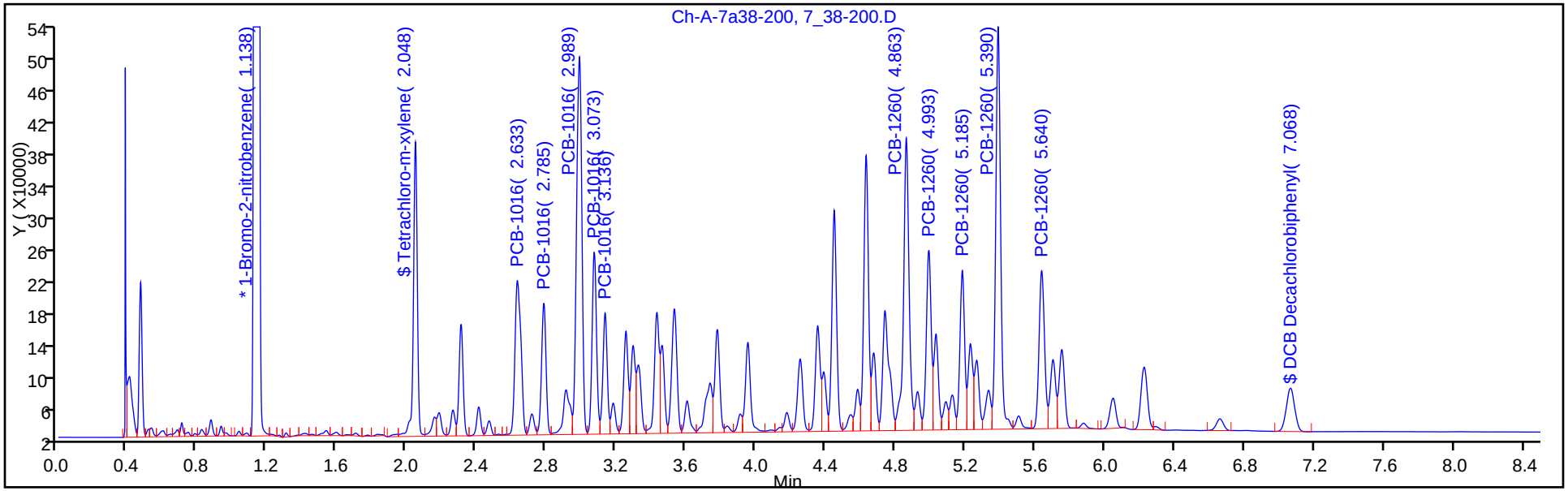
Report Date: 30-Aug-2017 10:32:51 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

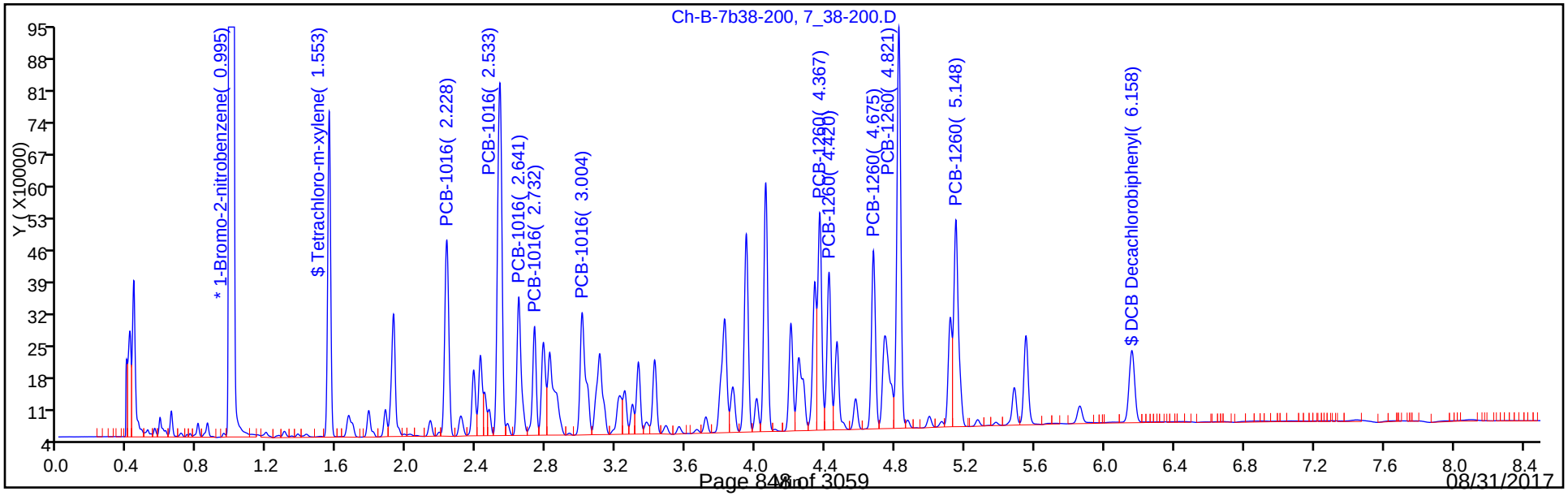
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-200.D

Injection Date:	29-Aug-2017 14:13:28	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	LCS 480-374278/2-A			Worklist Smp#:	13
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-374278/3-A

Matrix: Water | Lab File ID: 7_38-201.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 250(mL) | Date Analyzed: 08/29/2017 14:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-5 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2.83		0.50	0.18
11096-82-5	PCB-1260	2.72		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	64		39-121
2051-24-3	DCB Decachlorobiphenyl	36		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-201.D
Lims ID: LCSD 480-374278/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 29-Aug-2017 14:29:29 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:33:19 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:33:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.138	1.139	-0.001	17137486	0.5000	0.5000	
2	0.995	0.994	0.001	38540918	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.048	2.048	-0.001	541607	0.0200	0.0127	M
2	1.553	1.553	0.001	822216	0.0200	0.009465	
						RPD = 29.49	
9 PCB-1016							M
1	2.632	2.633	0.000	444486	0.5000	0.3341	M
1	2.783	2.784	-0.001	286125	0.5000	0.3468	M
1	2.988	2.989	-0.001	980939	0.5000	0.3518	M
1	3.073	3.073	0.000	394585	0.5000	0.3759	M
1	3.135	3.136	-0.001	258235	0.5000	0.3573	M
		Average of Peak Amounts =				0.3532	
2	2.228	2.225	0.003	697091	0.5000	0.2516	
2	2.533	2.529	0.003	1355137	0.5000	0.2403	
2	2.641	2.638	0.003	513599	0.5000	0.2384	
2	2.731	2.728	0.003	341268	0.5000	0.2378	
2	3.004	3.001	0.003	585963	0.5000	0.2387	
		Average of Peak Amounts =				0.2414	
						RPD = 37.61	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.863	4.864	-0.001	799799	0.5000	0.3666	M
1	4.992	4.993	-0.001	435418	0.5000	0.3551	M
1	5.184	5.184	0.000	372611	0.5000	0.3206	M
1	5.389	5.390	-0.001	973883	0.5000	0.3355	M
1	5.638	5.640	-0.002	446780	0.5000	0.3227	M
		Average of Peak Amounts =				0.3401	
2	4.366	4.363	0.003	734654	0.5000	0.2598	
2	4.419	4.416	0.003	524301	0.5000	0.2026	
2	4.674	4.670	0.004	594049	0.5000	0.2986	
2	4.819	4.816	0.003	1329201	0.5000	0.2094	
2	5.148	5.144	0.004	828605	0.5000	0.2151	
		Average of Peak Amounts =				0.2371	
						RPD = 35.69	
$ 15 DCB Decachlorobiphenyl							
1	7.067	7.068	-0.001	185935	0.0200	0.007276	
2	6.157	6.151	0.006	376863	0.0200	0.006511	
						RPD = 11.10	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

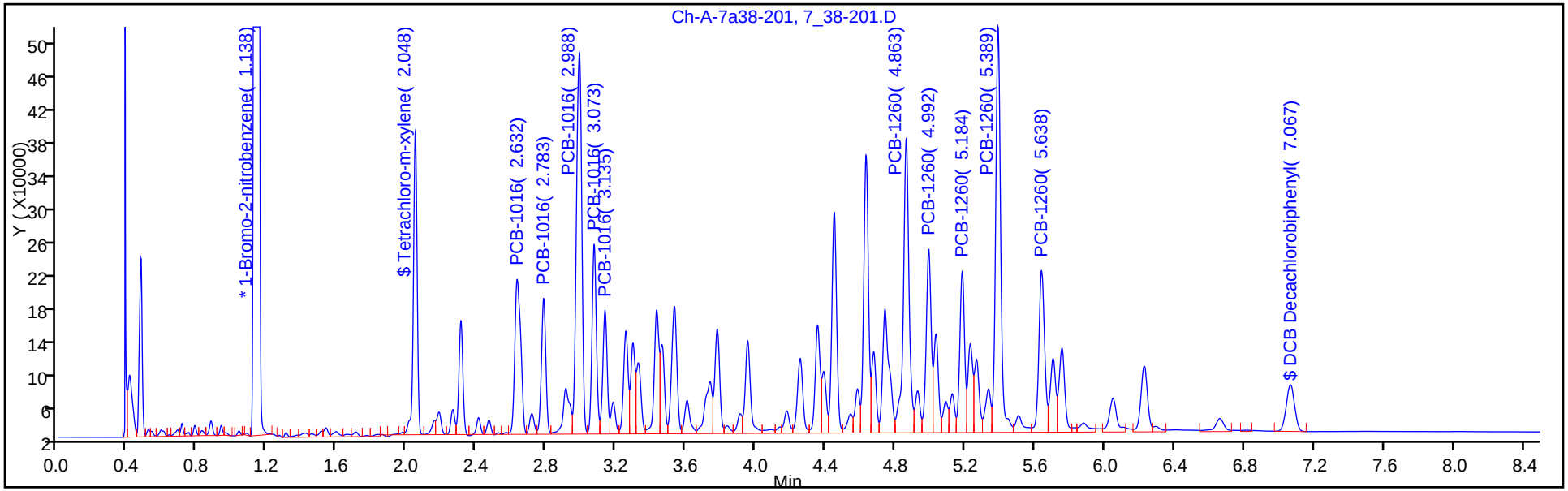
Report Date: 30-Aug-2017 10:33:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

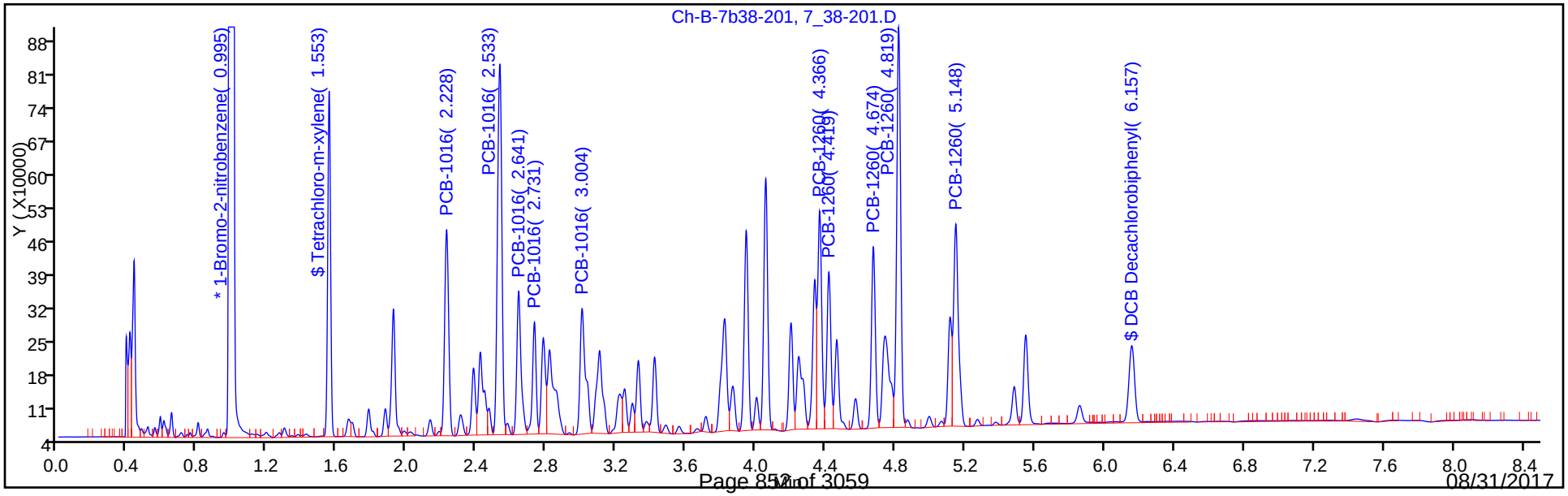
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-201.D

Injection Date:	29-Aug-2017 14:29:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	LCSD 480-374278/3-A			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 30-Aug-2017 10:33:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-201.D

Injection Date: 29-Aug-2017 14:29:29 Instrument ID: HP6890-7

Lims ID: LCSD 480-374278/3-A

Client ID:

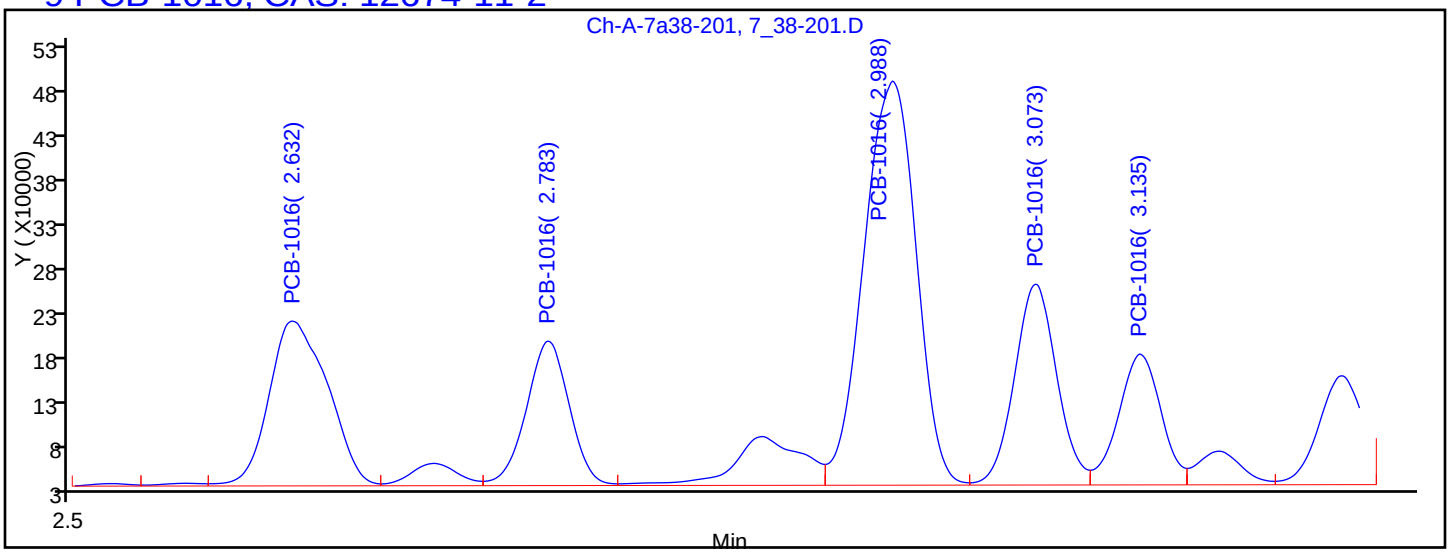
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

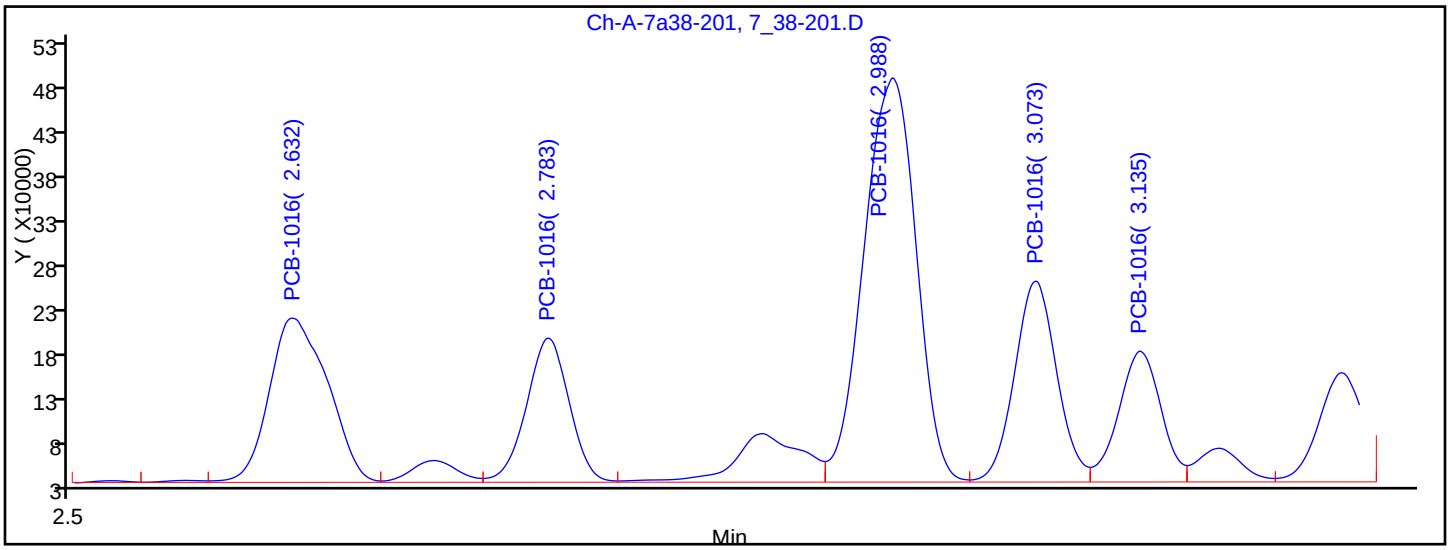
Column: Detector Ch-A-7A136

9 PCB-1016, CAS: 12674-11-2



Processing Integration Results

2.632	Response = 449046
2.783	Response = 288674
2.988	Response = 982200
3.073	Response = 395168
3.135	Response = 258393



Manual Integration Results

2.632	Response = 444486	M
2.783	Response = 286125	M
2.988	Response = 980939	M
3.073	Response = 394585	M
3.135	Response = 258235	M

Reviewer: owenj, 30-Aug-2017 10:33:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Report Date: 30-Aug-2017 10:33:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-201.D

Injection Date: 29-Aug-2017 14:29:29 Instrument ID: HP6890-7

Lims ID: LCSD 480-374278/3-A

Client ID:

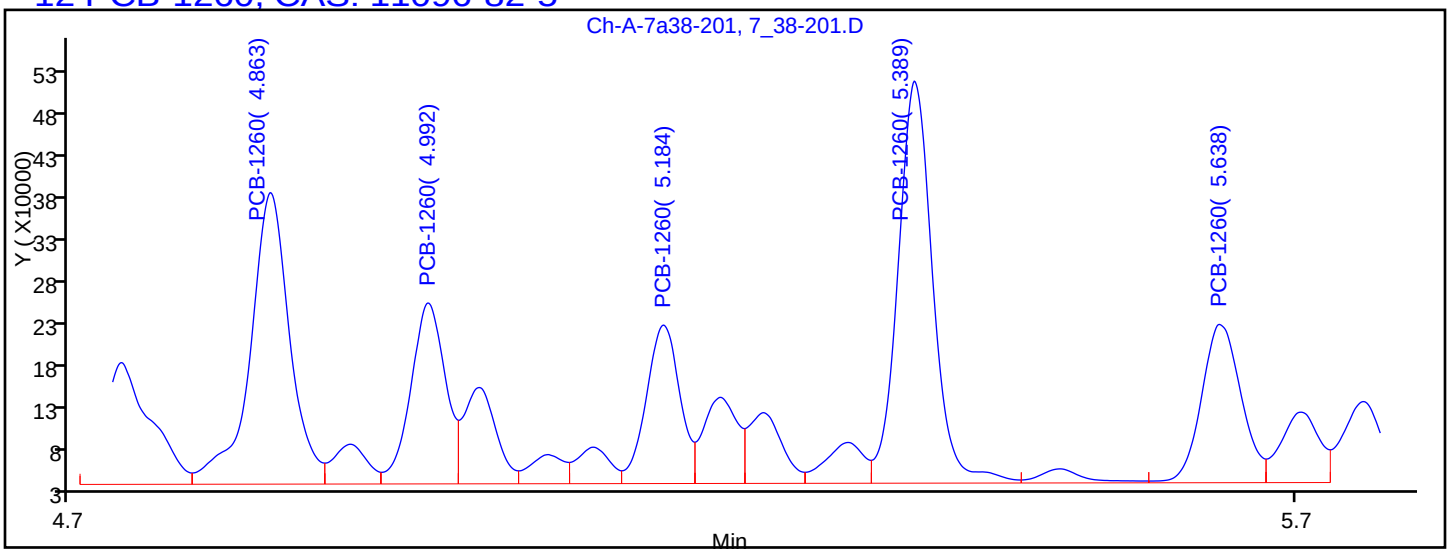
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL

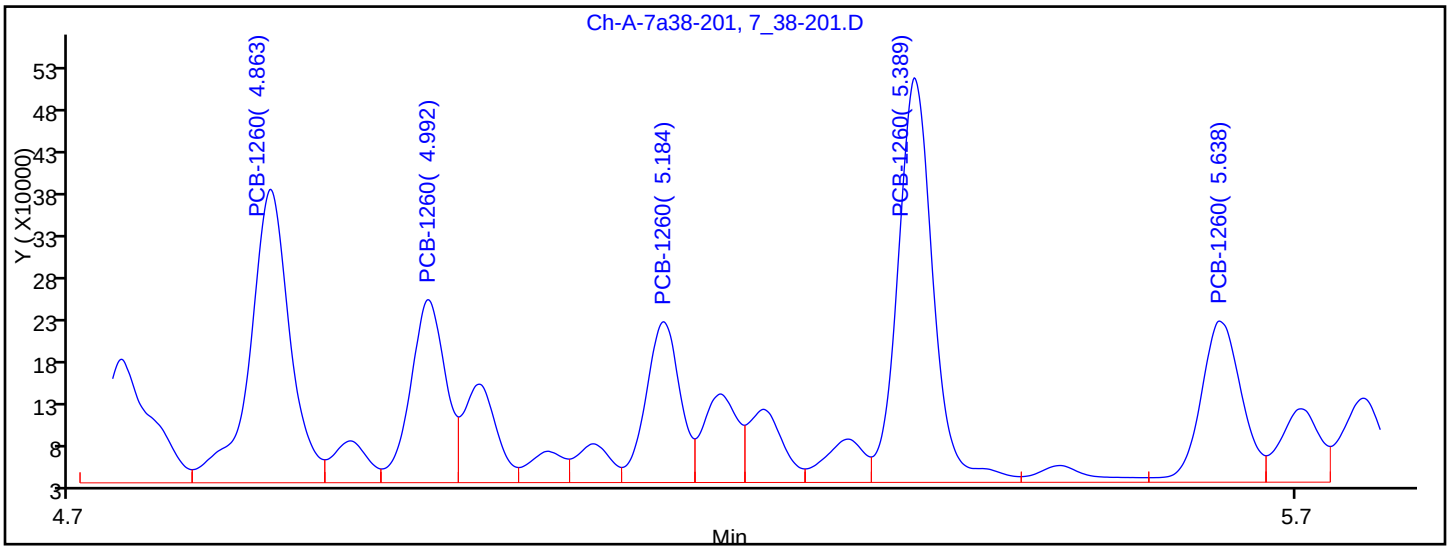
Column: Detector Ch-A-7A136

12 PCB-1260, CAS: 11096-82-5



Processing Integration Results

4.863	Response = 784612
4.992	Response = 425846
5.184	Response = 362571
5.389	Response = 950984
5.638	Response = 427166



Manual Integration Results

4.863	Response = 799799	M
4.992	Response = 435418	M
5.184	Response = 372611	M
5.389	Response = 973883	M
5.638	Response = 446780	M

Reviewer: owenj, 30-Aug-2017 10:33:05

Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

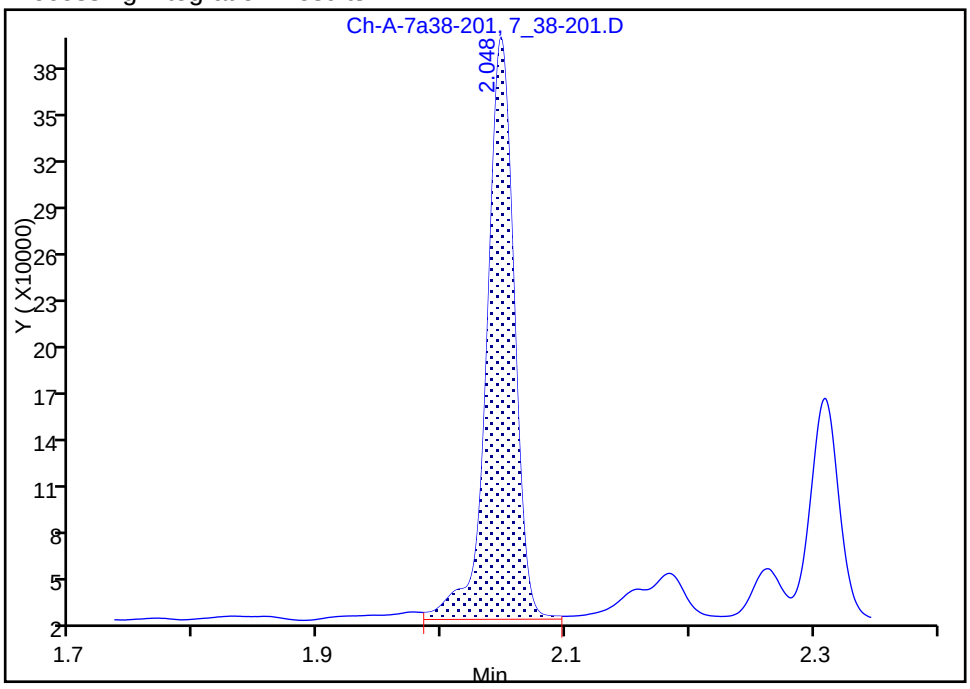
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-201.D
Injection Date: 29-Aug-2017 14:29:29 Instrument ID: HP6890-7
Lims ID: LCSD 480-374278/3-A
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 7-IS PCB Limit Group: GC - 8082A PCB IS ICAL
Column: Detector Ch-A-7A136

$ 6 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

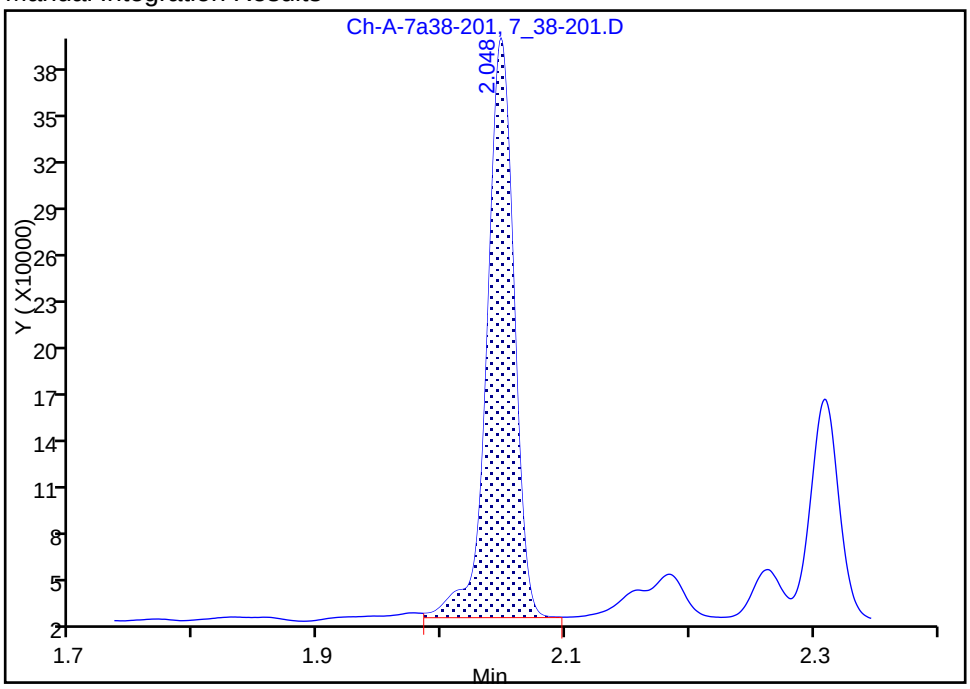
Processing Integration Results

RT: 2.05
Area: 552079
Amount: 0.012994
Amount Units: ng/uL



Manual Integration Results

RT: 2.05
Area: 541607
Amount: 0.012739
Amount Units: ng/uL



Reviewer: owenj, 30-Aug-2017 10:33:05
Audit Action: Assigned New Baseline Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-123215-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-374278/3-A

Matrix: Water | Lab File ID: 7_38-201.D

Analysis Method: 8082A | Date Collected:

Extraction Method: 3510C | Date Extracted: 08/28/2017 14:18

Sample wt/vol: 250(mL) | Date Analyzed: 08/29/2017 14:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: ZB-35 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 374407 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	47		39-121
2051-24-3	DCB Decachlorobiphenyl	33		19-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-201.D
Lims ID: LCSD 480-374278/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 29-Aug-2017 14:29:29 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP6890-7

Method: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7-IS PCB.m
Limit Group: GC - 8082A PCB IS ICAL
Last Update: 30-Aug-2017 10:33:19 Calib Date: 28-Mar-2017 19:39:13
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170328-61242.b\7_28-046.D

Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK015

First Level Reviewer: owenj Date: 30-Aug-2017 10:33:19

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1-Bromo-2-nitrobenzene							
1	1.138	1.139	-0.001	17137486	0.5000	0.5000	
2	0.995	0.994	0.001	38540918	0.5000	0.5000	
						RPD = 0.00	
$ 6 Tetrachloro-m-xylene							M
1	2.048	2.048	-0.001	541607	0.0200	0.0127	M
2	1.553	1.553	0.001	822216	0.0200	0.009465	
						RPD = 29.49	
9 PCB-1016							M
1	2.632	2.633	0.000	444486	0.5000	0.3341	M
1	2.783	2.784	-0.001	286125	0.5000	0.3468	M
1	2.988	2.989	-0.001	980939	0.5000	0.3518	M
1	3.073	3.073	0.000	394585	0.5000	0.3759	M
1	3.135	3.136	-0.001	258235	0.5000	0.3573	M
		Average of Peak Amounts =				0.3532	
2	2.228	2.225	0.003	697091	0.5000	0.2516	
2	2.533	2.529	0.003	1355137	0.5000	0.2403	
2	2.641	2.638	0.003	513599	0.5000	0.2384	
2	2.731	2.728	0.003	341268	0.5000	0.2378	
2	3.004	3.001	0.003	585963	0.5000	0.2387	
		Average of Peak Amounts =				0.2414	
						RPD = 37.61	

Col	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
12 PCB-1260							M
1	4.863	4.864	-0.001	799799	0.5000	0.3666	M
1	4.992	4.993	-0.001	435418	0.5000	0.3551	M
1	5.184	5.184	0.000	372611	0.5000	0.3206	M
1	5.389	5.390	-0.001	973883	0.5000	0.3355	M
1	5.638	5.640	-0.002	446780	0.5000	0.3227	M
		Average of Peak Amounts =				0.3401	
2	4.366	4.363	0.003	734654	0.5000	0.2598	
2	4.419	4.416	0.003	524301	0.5000	0.2026	
2	4.674	4.670	0.004	594049	0.5000	0.2986	
2	4.819	4.816	0.003	1329201	0.5000	0.2094	
2	5.148	5.144	0.004	828605	0.5000	0.2151	
		Average of Peak Amounts =				0.2371	
						RPD = 35.69	
$ 15 DCB Decachlorobiphenyl							
1	7.067	7.068	-0.001	185935	0.0200	0.007276	
2	6.157	6.151	0.006	376863	0.0200	0.006511	
						RPD = 11.10	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00065	Amount Added: 1.00	Units: g	Run Reagent
PCB IS 1B2NB_00037	Amount Added: 10.00	Units: uL	Run Reagent

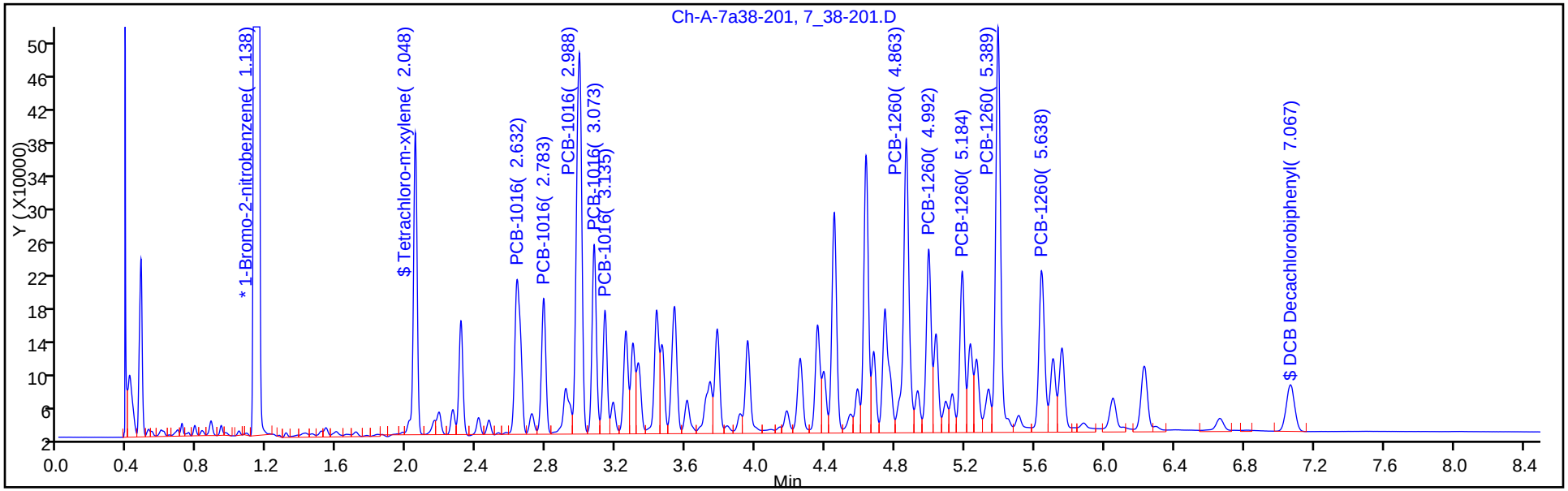
Report Date: 30-Aug-2017 10:33:20 Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

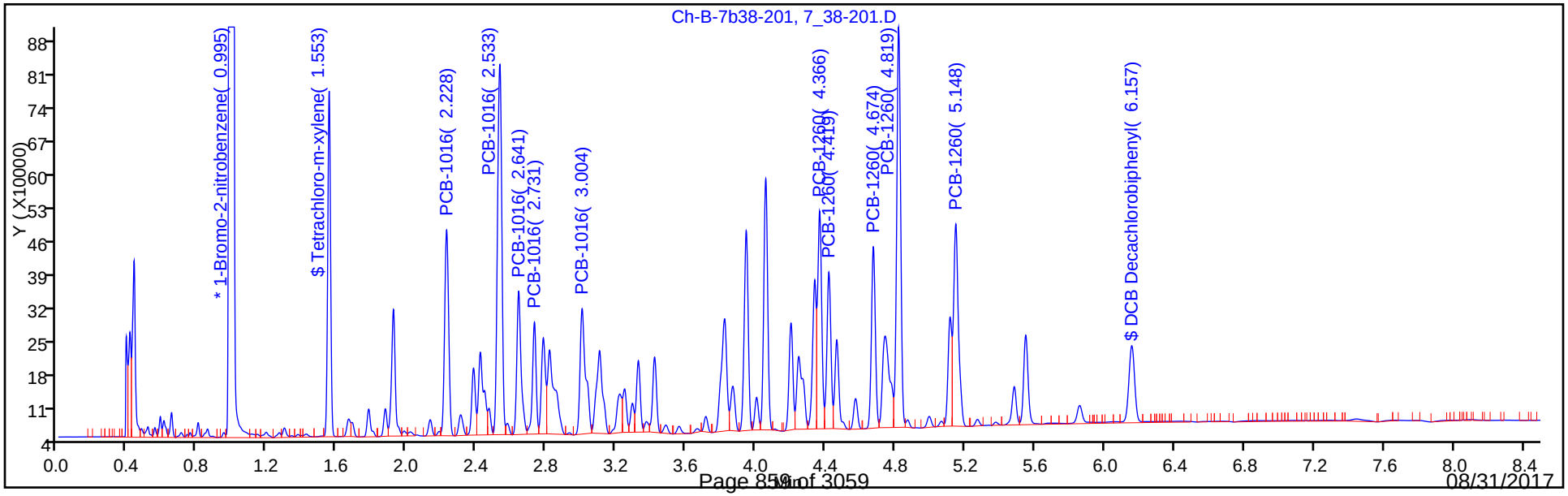
Data File: \\ChromNA\Buffalo\ChromData\HP6890-07\20170829-65224.b\7_38-201.D

Injection Date:	29-Aug-2017 14:29:29	Instrument ID:	HP6890-7	Operator ID:	BufTCHROM
Lims ID:	LCSD 480-374278/3-A			Worklist Smp#:	14
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	7-IS PCB	Limit Group:	GC - 8082A PCB IS ICAL		

Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 03/28/2017 12:44

Analysis Batch Number: 349118 End Date: 03/28/2017 19:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-349118/7		03/28/2017 12:44	1	7_28-020.D	ZB-5 0.53(mm)
IC 480-349118/7		03/28/2017 12:44	1	7_28-020.D	ZB-35 0.53(mm)
IC 480-349118/8		03/28/2017 13:00	1	7_28-021.D	ZB-5 0.53(mm)
IC 480-349118/8		03/28/2017 13:00	1	7_28-021.D	ZB-35 0.53(mm)
ICIS 480-349118/9		03/28/2017 13:16	1	7_28-022.D	ZB-5 0.53(mm)
ICIS 480-349118/9		03/28/2017 13:16	1	7_28-022.D	ZB-35 0.53(mm)
IC 480-349118/10		03/28/2017 13:32	1	7_28-023.D	ZB-5 0.53(mm)
IC 480-349118/10		03/28/2017 13:32	1	7_28-023.D	ZB-35 0.53(mm)
IC 480-349118/11		03/28/2017 13:48	1	7_28-024.D	ZB-5 0.53(mm)
IC 480-349118/11		03/28/2017 13:48	1	7_28-024.D	ZB-35 0.53(mm)
IC 480-349118/12		03/28/2017 14:04	1	7_28-025.D	ZB-5 0.53(mm)
IC 480-349118/12		03/28/2017 14:04	1	7_28-025.D	ZB-35 0.53(mm)
IC 480-349118/13		03/28/2017 14:20	1	7_28-026.D	ZB-5 0.53(mm)
IC 480-349118/13		03/28/2017 14:20	1	7_28-026.D	ZB-35 0.53(mm)
ICV 480-349118/14		03/28/2017 14:36	1		ZB-5 0.53(mm)
ICV 480-349118/14		03/28/2017 14:36	1		ZB-35 0.53(mm)
CCV 480-349118/15		03/28/2017 14:52	1		ZB-5 0.53(mm)
CCV 480-349118/15		03/28/2017 14:52	1		ZB-35 0.53(mm)
ZZZZZ		03/28/2017 15:08	1		ZB-5 0.53(mm)
ZZZZZ		03/28/2017 15:08	1		ZB-35 0.53(mm)
1016 pattern CCV		03/28/2017 15:24	1		ZB-5 0.53(mm)
1016 pattern CCV		03/28/2017 15:24	1		ZB-35 0.53(mm)
CCVL 480-349118/18		03/28/2017 15:40	0.02		ZB-5 0.53(mm)
CCVL 480-349118/18		03/28/2017 15:40	0.02		ZB-35 0.53(mm)
IC 480-349118/19		03/28/2017 15:56	1	7_28-032.D	ZB-5 0.53(mm)
IC 480-349118/19		03/28/2017 15:56	1	7_28-032.D	ZB-35 0.53(mm)
IC 480-349118/20		03/28/2017 16:12	1	7_28-033.D	ZB-5 0.53(mm)
IC 480-349118/20		03/28/2017 16:12	1	7_28-033.D	ZB-35 0.53(mm)
IC 480-349118/21		03/28/2017 16:28	1	7_28-034.D	ZB-5 0.53(mm)
IC 480-349118/21		03/28/2017 16:28	1	7_28-034.D	ZB-35 0.53(mm)
ICV 480-349118/22		03/28/2017 16:43	1		ZB-5 0.53(mm)
ICV 480-349118/22		03/28/2017 16:43	1		ZB-35 0.53(mm)
IC 480-349118/23		03/28/2017 16:59	1	7_28-036.D	ZB-5 0.53(mm)
IC 480-349118/23		03/28/2017 16:59	1	7_28-036.D	ZB-35 0.53(mm)
IC 480-349118/24		03/28/2017 17:15	1	7_28-037.D	ZB-5 0.53(mm)
IC 480-349118/24		03/28/2017 17:15	1	7_28-037.D	ZB-35 0.53(mm)
IC 480-349118/25		03/28/2017 17:31	1	7_28-038.D	ZB-5 0.53(mm)
IC 480-349118/25		03/28/2017 17:31	1	7_28-038.D	ZB-35 0.53(mm)
ICV 480-349118/26		03/28/2017 17:47	1		ZB-5 0.53(mm)
ICV 480-349118/26		03/28/2017 17:47	1		ZB-35 0.53(mm)
IC 480-349118/27		03/28/2017 18:03	1	7_28-040.D	ZB-5 0.53(mm)
IC 480-349118/27		03/28/2017 18:03	1	7_28-040.D	ZB-35 0.53(mm)
IC 480-349118/28		03/28/2017 18:19	1	7_28-041.D	ZB-5 0.53(mm)
IC 480-349118/28		03/28/2017 18:19	1	7_28-041.D	ZB-35 0.53(mm)
IC 480-349118/29		03/28/2017 18:35	1	7_28-042.D	ZB-5 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 03/28/2017 12:44

Analysis Batch Number: 349118 End Date: 03/28/2017 19:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 480-349118/29		03/28/2017 18:35	1	7_28-042.D	ZB-35 0.53(mm)
ICV 480-349118/30		03/28/2017 18:51	1		ZB-5 0.53(mm)
ICV 480-349118/30		03/28/2017 18:51	1		ZB-35 0.53(mm)
IC 480-349118/31		03/28/2017 19:07	1	7_28-044.D	ZB-5 0.53(mm)
IC 480-349118/31		03/28/2017 19:07	1	7_28-044.D	ZB-35 0.53(mm)
IC 480-349118/32		03/28/2017 19:23	1	7_28-045.D	ZB-5 0.53(mm)
IC 480-349118/32		03/28/2017 19:23	1	7_28-045.D	ZB-35 0.53(mm)
IC 480-349118/33		03/28/2017 19:39	1	7_28-046.D	ZB-5 0.53(mm)
IC 480-349118/33		03/28/2017 19:39	1	7_28-046.D	ZB-35 0.53(mm)
ICV 480-349118/34		03/28/2017 19:55	1		ZB-5 0.53(mm)
ICV 480-349118/34		03/28/2017 19:55	1		ZB-35 0.53(mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 08/29/2017 12:23

Analysis Batch Number: 374407 End Date: 08/29/2017 23:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVIS 480-374407/6		08/29/2017 12:23	1	7_38-193.D	ZB-5 0.53(mm)
CCVIS 480-374407/6		08/29/2017 12:23	1	7_38-193.D	ZB-35 0.53(mm)
CCV 480-374407/7		08/29/2017 12:39	1	7_38-194.D	ZB-5 0.53(mm)
CCV 480-374407/7		08/29/2017 12:39	1	7_38-194.D	ZB-35 0.53(mm)
CCV 480-374407/8		08/29/2017 12:55	1	7_38-195.D	ZB-5 0.53(mm)
CCV 480-374407/8		08/29/2017 12:55	1	7_38-195.D	ZB-35 0.53(mm)
CCV 480-374407/9		08/29/2017 13:11	1	7_38-196.D	ZB-5 0.53(mm)
CCV 480-374407/9		08/29/2017 13:11	1	7_38-196.D	ZB-35 0.53(mm)
CCV 480-374407/10		08/29/2017 13:25	1	7_38-197.D	ZB-5 0.53(mm)
CCV 480-374407/10		08/29/2017 13:25	1	7_38-197.D	ZB-35 0.53(mm)
MB 480-374278/1-A		08/29/2017 13:57	1	7_38-199.D	ZB-5 0.53(mm)
MB 480-374278/1-A		08/29/2017 13:57	1	7_38-199.D	ZB-35 0.53(mm)
LCS 480-374278/2-A		08/29/2017 14:13	1	7_38-200.D	ZB-5 0.53(mm)
LCS 480-374278/2-A		08/29/2017 14:13	1	7_38-200.D	ZB-35 0.53(mm)
LCSD 480-374278/3-A		08/29/2017 14:29	1	7_38-201.D	ZB-5 0.53(mm)
LCSD 480-374278/3-A		08/29/2017 14:29	1	7_38-201.D	ZB-35 0.53(mm)
ZZZZZ		08/29/2017 14:45	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 14:45	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 15:01	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 15:01	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 15:17	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 15:17	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 15:33	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 15:33	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 15:49	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 15:49	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 16:06	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 16:06	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 16:22	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 16:22	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 16:38	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 16:38	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 16:54	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 16:54	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 17:10	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 17:10	1		ZB-35 0.53(mm)
480-123215-1		08/29/2017 17:26	1	7_38-212.D	ZB-5 0.53(mm)
480-123215-1		08/29/2017 17:26	1	7_38-212.D	ZB-35 0.53(mm)
480-123215-2		08/29/2017 17:42	1	7_38-213.D	ZB-5 0.53(mm)
480-123215-2		08/29/2017 17:42	1	7_38-213.D	ZB-35 0.53(mm)
480-123215-3		08/29/2017 17:58	1	7_38-214.D	ZB-5 0.53(mm)
480-123215-3		08/29/2017 17:58	1	7_38-214.D	ZB-35 0.53(mm)
ZZZZZ		08/29/2017 18:14	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 18:14	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 18:30	1		ZB-5 0.53(mm)

8082A

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: HP6890-7 Start Date: 08/29/2017 12:23

Analysis Batch Number: 374407 End Date: 08/29/2017 23:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		08/29/2017 18:30	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 18:46	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 18:46	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 19:02	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 19:02	1		ZB-35 0.53(mm)
CCV 480-374407/32		08/29/2017 19:19	1		ZB-5 0.53(mm)
CCV 480-374407/32		08/29/2017 19:19	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 19:51	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 19:51	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 20:07	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 20:07	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 20:23	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 20:23	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 20:39	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 20:39	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 20:55	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 20:55	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 21:11	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 21:11	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 21:27	5		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 21:27	5		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 21:43	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 21:43	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 21:59	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 21:59	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 22:15	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 22:15	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 22:31	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 22:31	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 22:47	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 22:47	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 23:03	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 23:03	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 23:19	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 23:19	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 23:35	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 23:35	1		ZB-35 0.53(mm)
ZZZZZ		08/29/2017 23:51	1		ZB-5 0.53(mm)
ZZZZZ		08/29/2017 23:51	1		ZB-35 0.53(mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 374278 Batch Start Date: 08/28/17 14:18 Batch Analyst: Palermo, Stephan M

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	O_608PCBSpike 00013	O_PCBLLsurr 00044	
MB 480-374278/1		3510C, 8082A		7 SU	250 mL	2 mL		1 mL	
LCS 480-374278/2		3510C, 8082A		7 SU	250 mL	2 mL	1 mL	1 mL	
LCSD 480-374278/3		3510C, 8082A		7 SU	250 mL	2 mL	1 mL	1 mL	
480-123215-B-1	NS-LDP-001-GW	3510C, 8082A	T	6 SU	250 mL	2 mL		1 mL	
480-123215-C-2	NS-LDP-002-GW	3510C, 8082A	T	6 SU	240 mL	2 mL		1 mL	
480-123215-E-3	NS-LDP-003-GW	3510C, 8082A	T	6 SU	240 mL	2 mL		1 mL	

Batch Notes	
Acid used for pH adjustment	1:1 Sulfuric
Acid Used for pH Adjustment ID	4177084
Acid used for Clean Up ID	Sulfuric:3829042
Base used for pH adjustment	NaOH
Base Used to Adjust pH ID	4207461
Analyst ID - Concentration	SP, BK
Exchange Solvent ID	4179080
Exchange Solvent Name	Hexane
Na2SO4 ID	4166197
Prep Solvent ID	4203385
Prep Solvent Name	MeCl2
Prep Solvent Volume Used	60 mL
Person's name who did the prep	SP
Analyst ID - Reagent Drop Witness	SP
Sufficient volume for MS/MSD?	No

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG No.:

Project: Nash Rd. Wheatfield #932054

Client Sample ID	Lab Sample ID
NS-LDP-001-GW	480-123215-1
NS-LDP-002-GW	480-123215-2
NS-LDP-003-GW	480-123215-3

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: NS-LDP-001-GW
Lab Sample ID: 480-123215-1
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG ID.:
Matrix: Water
Date Sampled: 08/24/2017 00:00
Reporting Basis: WET
Date Received: 08/24/2017 17:02

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: NS-LDP-001-GW
Lab Sample ID: 480-123215-1
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG ID.:
Matrix: Water
Date Sampled: 08/24/2017 00:00
Reporting Basis: WET
Date Received: 08/24/2017 17:02

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	2.8	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.057	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	160	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0040	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.0012	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0034	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	2.6	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	41.6	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.066	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.0055	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	1.3	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	15.8	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	0.0066	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.011	0.010	0.0015	mg/L			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: NS-LDP-001-GW
Lab Sample ID: 480-123215-1
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG ID.:
Matrix: Water
Date Sampled: 08/24/2017 00:00
Reporting Basis: WET
Date Received: 08/24/2017 17:02

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.040	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	157	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.00066	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	41.3	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.031	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.0039	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	0.40	0.50	0.10	mg/L	J	B	1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	16.7	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.011	0.010	0.0015	mg/L		B	1	6010C
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: NS-LDP-002-GW
Lab Sample ID: 480-123215-2
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG ID.:
Matrix: Water
Date Sampled: 08/24/2017 00:00
Reporting Basis: WET
Date Received: 08/24/2017 17:02

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: NS-LDP-002-GW
Lab Sample ID: 480-123215-2
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG ID.:
Matrix: Water
Date Sampled: 08/24/2017 00:00
Reporting Basis: WET
Date Received: 08/24/2017 17:02

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.1	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.076	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	148	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0017	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0030	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	1.3	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	37.3	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.044	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.0024	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	1.9	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	23.4	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	0.0029	0.0050	0.0015	mg/L	J		1	6010C
7440-66-6	Zinc	0.0078	0.010	0.0015	mg/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: NS-LDP-002-GW
Lab Sample ID: 480-123215-2
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG ID.:
Matrix: Water
Date Sampled: 08/24/2017 00:00
Reporting Basis: WET
Date Received: 08/24/2017 17:02

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.066	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	139	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0022	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	34.7	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.011	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.0035	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	1.5	0.50	0.10	mg/L		B	1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	23.5	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.013	0.010	0.0015	mg/L		B	1	6010C
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: NS-LDP-003-GW
Lab Sample ID: 480-123215-3
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG ID.:
Matrix: Water
Date Sampled: 08/24/2017 00:00
Reporting Basis: WET
Date Received: 08/24/2017 17:02

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: NS-LDP-003-GW
Lab Sample ID: 480-123215-3
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG ID.:
Matrix: Water
Date Sampled: 08/24/2017 00:00
Reporting Basis: WET
Date Received: 08/24/2017 17:02

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	1.5	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.052	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	187	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0021	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0027	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	1.5	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0031	0.010	0.0030	mg/L	J		1	6010C
7439-95-4	Magnesium	48.8	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.049	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.0024	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	0.99	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	13.8	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	0.0035	0.0050	0.0015	mg/L	J		1	6010C
7440-66-6	Zinc	0.0073	0.010	0.0015	mg/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: NS-LDP-003-GW
Lab Sample ID: 480-123215-3
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG ID.:
Matrix: Water
Date Sampled: 08/24/2017 00:00
Reporting Basis: WET
Date Received: 08/24/2017 17:02

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.044	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	180	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0024	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	47.4	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.022	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.0025	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	0.54	0.50	0.10	mg/L		B	1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	13.8	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0075	0.010	0.0015	mg/L	J	B	1	6010C
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEI_04_ICV_00341 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00257

Analyte	ICV 480-374374/5 08/28/2017 14:24				CCV 480-374374/17 08/28/2017 17:11				CCV 480-374374/22 08/28/2017 17:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	18.14		18.8	97	23.88		25.0	96	24.05		25.0	96
Antimony	0.372		0.375	99	0.497		0.500	99	0.493		0.500	99
Arsenic	0.370		0.375	99	0.504		0.500	101	0.505		0.500	101
Barium	0.372		0.375	99	0.492		0.500	98	0.496		0.500	99
Beryllium	0.379		0.375	101	0.500		0.500	100	0.501		0.500	100
Cadmium	0.375		0.375	100	0.501		0.500	100	0.502		0.500	100
Calcium	18.79		18.8	100	24.98		25.0	100	24.95		25.0	100
Chromium	0.380		0.375	101	0.501		0.500	100	0.501		0.500	100
Cobalt	0.367		0.375	98	0.489		0.500	98	0.489		0.500	98
Copper	0.375		0.375	100	0.503		0.500	101	0.503		0.500	101
Iron	18.64		18.8	99	24.62		25.0	98	24.55		25.0	98
Lead	0.375		0.375	100	0.498		0.500	100	0.497		0.500	99
Magnesium	18.76		18.8	100	25.10		25.0	100	25.07		25.0	100
Manganese	0.385		0.375	103	0.514		0.500	103	0.514		0.500	103
Nickel	0.374		0.375	100	0.500		0.500	100	0.501		0.500	100
Potassium	18.82		18.8	100	25.15		25.0	101	25.16		25.0	101
Selenium	0.364		0.375	97	0.499		0.500	100	0.504		0.500	101
Silver	0.377		0.375	100	0.510		0.500	102	0.510		0.500	102
Sodium	18.81		18.8	100	24.37		25.0	97	24.82		25.0	99
Thallium	0.377		0.375	100	0.507		0.500	101	0.506		0.500	101
Vanadium	0.376		0.375	100	0.500		0.500	100	0.499		0.500	100
Zinc	0.378		0.375	101	0.504		0.500	101	0.502		0.500	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEI_04_ICV_00341 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00257

Analyte	CCV 480-374374/34 08/28/2017 18:37											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	24.01		25.0	96								
Antimony	0.495		0.500	99								
Arsenic	0.505		0.500	101								
Barium	0.498		0.500	100								
Beryllium	0.499		0.500	100								
Cadmium	0.502		0.500	100								
Calcium	24.93		25.0	100								
Chromium	0.504		0.500	101								
Cobalt	0.490		0.500	98								
Copper	0.504		0.500	101								
Iron	24.40		25.0	98								
Lead	0.498		0.500	100								
Magnesium	25.10		25.0	100								
Manganese	0.513		0.500	103								
Nickel	0.502		0.500	100								
Potassium	25.17		25.0	101								
Selenium	0.499		0.500	100								
Silver	0.508		0.500	102								
Sodium	24.95		25.0	100								
Thallium	0.507		0.500	101								
Vanadium	0.501		0.500	100								
Zinc	0.504		0.500	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEI_10_CCVL_00153 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00153

Analyte	ICVL 480-374374/7 08/28/2017 14:31				CCVL 480-374374/19 08/28/2017 17:19				CCVL 480-374374/24 08/28/2017 18:02			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.201		0.200	100	0.195	J	0.200	97	0.215		0.200	108
Antimony	0.0189	J	0.0200	94	0.0186	J	0.0200	93	0.0184	J	0.0200	92
Arsenic	0.0140	J	0.0150	93	0.0171		0.0150	114	0.0106	J	0.0150	70
Barium	0.00216		0.00200	108	0.00214		0.00200	107	0.00214		0.00200	107
Beryllium	0.00205		0.00200	103	0.00209		0.00200	105	0.00197	J	0.00200	99
Cadmium	0.00211		0.00200	106	0.00210		0.00200	105	0.00237		0.00200	119
Calcium	0.502		0.500	100	0.511		0.500	102	0.504		0.500	101
Chromium	0.00449		0.00400	112	0.00468		0.00400	117	0.00426		0.00400	107
Cobalt	0.00376	J	0.00400	94	0.00373	J	0.00400	93	0.00384	J	0.00400	96
Copper	0.0103		0.0100	103	0.00962	J	0.0100	96	0.00997	J	0.0100	100
Iron	0.0497	J	0.0500	99	0.0511		0.0500	102	0.0510		0.0500	102
Lead	0.00923	J	0.0100	92	0.0110		0.0100	110	0.0103		0.0100	103
Magnesium	0.201		0.200	101	0.203		0.200	101	0.202		0.200	101
Manganese	0.00308		0.00300	103	0.00303		0.00300	101	0.00309		0.00300	103
Nickel	0.00975	J	0.0100	98	0.0101		0.0100	101	0.00977	J	0.0100	98
Potassium	0.530		0.500	106	0.614		0.500	123	0.585		0.500	117
Selenium	0.0216	J	0.0250	86	0.0258		0.0250	103	0.0281		0.0250	113
Silver	0.00665		0.00600	111	0.00623		0.00600	104	0.00673		0.00600	112
Sodium	1.02		1.00	102	1.07		1.00	107	1.04		1.00	104
Thallium	0.0182	J	0.0200	91	0.0165	J	0.0200	83	0.0177	J	0.0200	88
Vanadium	0.00497	J	0.00500	99	0.00475	J	0.00500	95	0.00509		0.00500	102
Zinc	0.0105		0.0100	105	0.0103		0.0100	103	0.0103		0.0100	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEI_10_CCVL_00153 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00153

Analyte	CCVL 480-374374/36 08/28/2017 18:44											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.183	J	0.200	92								
Antimony	0.0194	J	0.0200	97								
Arsenic												
Barium	0.00217		0.00200	109								
Beryllium	0.00202		0.00200	101								
Cadmium	0.00217		0.00200	109								
Calcium	0.509		0.500	102								
Chromium	0.00471		0.00400	118								
Cobalt	0.00371	J	0.00400	93								
Copper	0.0103		0.0100	103								
Iron	0.0501		0.0500	100								
Lead	0.00956	J	0.0100	96								
Magnesium	0.204		0.200	102								
Manganese	0.00314		0.00300	105								
Nickel	0.00970	J	0.0100	97								
Potassium	0.537		0.500	107								
Selenium	0.0226	J	0.0250	90								
Silver	0.00566	J	0.00600	94								
Sodium	1.03		1.00	103								
Thallium	0.0165	J	0.0200	83								
Vanadium	0.00500		0.00500	100								
Zinc	0.0111		0.0100	111								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEI_04_ICV_00341 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00257

Analyte	ICV 480-374381/5 08/28/2017 11:16				CCV 480-374381/48 08/28/2017 16:16				CCV 480-374381/59 08/28/2017 16:59			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	17.90		18.8	95	24.19		25.0	97	24.02		25.0	96
Antimony	0.372		0.375	99	0.501		0.500	100	0.500		0.500	100
Arsenic	0.369		0.375	98	0.502		0.500	100	0.501		0.500	100
Barium	0.377		0.375	101	0.486		0.500	97	0.487		0.500	97
Beryllium	0.377		0.375	100	0.500		0.500	100	0.500		0.500	100
Cadmium	0.374		0.375	100	0.501		0.500	100	0.500		0.500	100
Calcium	18.55		18.8	99	24.70		25.0	99	24.63		25.0	99
Chromium	0.377		0.375	101	0.513		0.500	103	0.514		0.500	103
Cobalt	0.366		0.375	98	0.488		0.500	98	0.490		0.500	98
Copper	0.381		0.375	101	0.496		0.500	99	0.496		0.500	99
Iron	18.40		18.8	98	23.73		25.0	95	23.80		25.0	95
Lead	0.369		0.375	98	0.493		0.500	99	0.495		0.500	99
Magnesium	18.91		18.8	101	24.79		25.0	99	24.87		25.0	99
Manganese	0.386		0.375	103	0.505		0.500	101	0.508		0.500	102
Nickel	0.372		0.375	99	0.494		0.500	99	0.498		0.500	100
Potassium	18.75		18.8	100	25.01		25.0	100	25.32		25.0	101
Selenium	0.369		0.375	98	0.510		0.500	102	0.504		0.500	101
Silver	0.374		0.375	100	0.512		0.500	102	0.510		0.500	102
Sodium	18.56		18.8	99	25.18		25.0	101	25.21		25.0	101
Thallium	0.377		0.375	100	0.506		0.500	101	0.507		0.500	101
Vanadium	0.373		0.375	100	0.505		0.500	101	0.508		0.500	102
Zinc	0.377		0.375	100	0.505		0.500	101	0.509		0.500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEI_04_ICV_00341 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00257

Analyte	CCV 480-374381/71 08/28/2017 17:42											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	23.83		25.0	95								
Antimony	0.500		0.500	100								
Arsenic	0.502		0.500	100								
Barium	0.488		0.500	98								
Beryllium	0.497		0.500	99								
Cadmium	0.501		0.500	100								
Calcium	24.52		25.0	98								
Chromium	0.514		0.500	103								
Cobalt	0.491		0.500	98								
Copper	0.500		0.500	100								
Iron	23.73		25.0	95								
Lead	0.495		0.500	99								
Magnesium	25.01		25.0	100								
Manganese	0.509		0.500	102								
Nickel	0.499		0.500	100								
Potassium	25.32		25.0	101								
Selenium	0.501		0.500	100								
Silver	0.509		0.500	102								
Sodium	25.15		25.0	101								
Thallium	0.505		0.500	101								
Vanadium	0.507		0.500	101								
Zinc	0.510		0.500	102								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEI_10_CCVL_00152 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00152

Analyte	ICVL 480-374381/7 08/28/2017 11:23				CCVL 480-374381/50 08/28/2017 16:23				CCVL 480-374381/61 08/28/2017 17:07			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.180	J	0.200	90	0.188	J	0.200	94	0.181	J	0.200	91
Antimony	0.0209		0.0200	104	0.0190	J	0.0200	95	0.0195	J	0.0200	98
Arsenic	0.0160		0.0150	107	0.0168		0.0150	112	0.0135	J	0.0150	90
Barium	0.00202		0.00200	101	0.00200		0.00200	100	0.00198	J	0.00200	99
Beryllium	0.00208		0.00200	104	0.00191	J	0.00200	96	0.00196	J	0.00200	98
Cadmium	0.00198	J	0.00200	99	0.00196	J	0.00200	98	0.00202		0.00200	101
Calcium	0.499	J	0.500	100	0.496	J	0.500	99	0.491	J	0.500	98
Chromium	0.00448		0.00400	112	0.00411		0.00400	103	0.00419		0.00400	105
Cobalt	0.00382	J	0.00400	96	0.00371	J	0.00400	93	0.00375	J	0.00400	94
Copper	0.0108		0.0100	108	0.0103		0.0100	103	0.00959	J	0.0100	96
Iron	0.0421	J	0.0500	84	0.0428	J	0.0500	86	0.0415	J	0.0500	83
Lead	0.00853	J	0.0100	85	0.00939	J	0.0100	94	0.00907	J	0.0100	91
Magnesium	0.202		0.200	101	0.201		0.200	100	0.199	J	0.200	100
Manganese	0.00303		0.00300	101	0.00301		0.00300	100	0.00296	J	0.00300	99
Nickel	0.00979	J	0.0100	98	0.00962	J	0.0100	96	0.00955	J	0.0100	96
Potassium	0.479	J	0.500	96	0.566		0.500	113	0.642		0.500	128
Selenium	0.0244	J	0.0250	98	0.0254		0.0250	102	0.0279		0.0250	112
Silver	0.00603		0.00600	101	0.00546	J	0.00600	91	0.00570	J	0.00600	95
Sodium	0.995	J	1.00	99	1.06		1.00	106	1.07		1.00	107
Thallium	0.0191	J	0.0200	96	0.0191	J	0.0200	95	0.0190	J	0.0200	95
Vanadium	0.00486	J	0.00500	97	0.00557		0.00500	111	0.00556		0.00500	111
Zinc	0.0110		0.0100	110	0.0108		0.0100	108	0.0112		0.0100	112

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEI_10_CCVL_00152 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00152

Analyte	CCVL 480-374381/73 08/28/2017 17:49											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.187	J	0.200	94								
Antimony	0.0215		0.0200	108								
Arsenic	0.0162		0.0150	108								
Barium	0.00201		0.00200	101								
Beryllium	0.00190	J	0.00200	95								
Cadmium	0.00198	J	0.00200	99								
Calcium	0.497	J	0.500	99								
Chromium	0.00466		0.00400	117								
Cobalt	0.00365	J	0.00400	91								
Copper	0.0108		0.0100	108								
Iron	0.0444	J	0.0500	89								
Lead	0.00977	J	0.0100	98								
Magnesium	0.202		0.200	101								
Manganese	0.00303		0.00300	101								
Nickel	0.00964	J	0.0100	96								
Potassium	0.575		0.500	115								
Selenium	0.0277		0.0250	111								
Silver	0.00618		0.00600	103								
Sodium	1.06		1.00	106								
Thallium	0.0186	J	0.0200	93								
Vanadium	0.00528		0.00500	106								
Zinc	0.0115		0.0100	115								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEI_04_ICV_00341 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00257

Analyte	ICV 480-374479/5 08/29/2017 14:17				CCV 480-374479/15 08/29/2017 15:05				CCV 480-374479/21 08/29/2017 15:57			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.371		0.375	99	0.500		0.500	100	0.496		0.500	99
Aluminum	18.10		18.8	97	24.11		25.0	96	23.98		25.0	96
Antimony	0.372		0.375	99	0.494		0.500	99	0.496		0.500	99
Barium	0.375		0.375	100	0.495		0.500	99	0.494		0.500	99
Beryllium	0.379		0.375	101	0.502		0.500	100	0.500		0.500	100
Cadmium	0.373		0.375	99	0.500		0.500	100	0.500		0.500	100
Calcium	18.70		18.8	100	24.82		25.0	99	24.76		25.0	99
Chromium	0.382		0.375	102	0.510		0.500	102	0.511		0.500	102
Cobalt	0.364		0.375	97	0.487		0.500	97	0.488		0.500	98
Copper	0.380		0.375	101	0.506		0.500	101	0.510		0.500	102
Iron	18.46		18.8	98	24.35		25.0	97	24.30		25.0	97
Lead	0.368		0.375	98	0.490		0.500	98	0.493		0.500	99
Magnesium	18.82		18.8	100	25.13		25.0	101	25.27		25.0	101
Manganese	0.385		0.375	103	0.511		0.500	102	0.513		0.500	103
Nickel	0.370		0.375	99	0.493		0.500	99	0.496		0.500	99
Potassium	18.76		18.8	100	25.01		25.0	100	24.97		25.0	100
Selenium	0.369		0.375	98	0.499		0.500	100	0.498		0.500	100
Silver	0.374		0.375	100	0.522		0.500	104	0.522		0.500	104
Sodium	18.74		18.8	100	25.01		25.0	100	24.96		25.0	100
Thallium	0.377		0.375	101	0.500		0.500	100	0.502		0.500	100
Vanadium	0.375		0.375	100	0.502		0.500	100	0.502		0.500	100
Zinc	0.374		0.375	100	0.507		0.500	101	0.508		0.500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEI_10_CCVL_00152 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00152

Analyte	ICVL 480-374479/7 08/29/2017 14:32				CCVL 480-374479/17 08/29/2017 15:21				CCVL 480-374479/23 08/29/2017 16:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0148	J	0.0150	99	0.0131	J	0.0150	87	0.0136	J	0.0150	90
Aluminum	0.168	J	0.200	84	0.156	J	0.200	78	0.161	J	0.200	81
Antimony	0.0200		0.0200	100	0.0192	J	0.0200	96	0.0187	J	0.0200	93
Barium	0.00202		0.00200	101	0.00187	J	0.00200	94	0.00190	J	0.00200	95
Beryllium	0.00197	J	0.00200	99	0.00198	J	0.00200	99	0.00187	J	0.00200	94
Cadmium	0.00217		0.00200	109	0.00193	J	0.00200	97	0.00195	J	0.00200	98
Calcium	0.502		0.500	100	0.490	J	0.500	98	0.505		0.500	101
Chromium	0.00464		0.00400	116	0.00448		0.00400	112	0.00425		0.00400	106
Cobalt	0.00382	J	0.00400	96	0.00353	J	0.00400	88	0.00383	J	0.00400	96
Copper	0.0101		0.0100	101	0.0107		0.0100	107	0.0102		0.0100	102
Iron	0.0442	J	0.0500	88	0.0390	J	0.0500	78	0.0381	J	0.0500	76
Lead	0.0102		0.0100	102	0.0101		0.0100	101	0.00916	J	0.0100	92
Magnesium	0.206		0.200	103	0.196	J	0.200	98	0.198	J	0.200	99
Manganese	0.00303		0.00300	101	0.00307		0.00300	102	0.00300		0.00300	100
Nickel	0.00939	J	0.0100	94	0.00918	J	0.0100	92	0.00914	J	0.0100	91
Potassium	0.453	J	0.500	91	0.457	J	0.500	91	0.438	J	0.500	88
Selenium	0.0239	J	0.0250	96	0.0257		0.0250	103	0.0252		0.0250	101
Silver	0.00501	J	0.00600	84	0.00652		0.00600	109	0.00574	J	0.00600	96
Sodium	1.01		1.00	101	0.984	J	1.00	98	0.993	J	1.00	99
Thallium	0.0198	J	0.0200	99	0.0206		0.0200	103	0.0215		0.0200	107
Vanadium	0.00519		0.00500	104	0.00502		0.00500	100	0.00456	J	0.00500	91
Zinc	0.0110		0.0100	110	0.0101		0.0100	101	0.0107		0.0100	107

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEH_HG1_WKG_01561 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_01561

Analyte	ICV 480-374045/1 08/25/2017 14:18				ICVL 480-374045/3 08/25/2017 14:22				CCV 480-374045/4 08/25/2017 14:23			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00291		0.00300	97	0.000183	J	0.000200	92	0.00196		0.00200	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEH_HG1_WKG_01561 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_01561

Analyte	CCV 480-374045/16 08/25/2017 14:46				CCV 480-374045/28 08/25/2017 15:07				CCVL 480-374045/69 08/25/2017 16:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00199		0.00200	100	0.00198		0.00200	99	0.000190	J	0.000200	95

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEH_HG1_WKG_01562 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_01562

Analyte	ICV 480-374303/1 08/28/2017 13:38				ICVL 480-374303/3 08/28/2017 13:42				CCV 480-374303/64 08/28/2017 15:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00291		0.00300	97	0.000182	J	0.000200	91	0.00194		0.00200	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

ICV Source: MEH_HG1_WKG_01562 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_01562

Analyte	CCV 480-374303/76 08/28/2017 16:00				CCV 480-374303/82 08/28/2017 16:11				CCVL 480-374303/84 08/28/2017 16:15			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00194		0.00200	97	0.00194		0.00200	97	0.000185	J	0.000200	93

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-374374/6 08/28/2017 14:27		CCB 480-374374/18 08/28/2017 17:15		CCB 480-374374/23 08/28/2017 17:58		CCB 480-374374/35 08/28/2017 18:41	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		0.150	J	ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-374381/6 08/28/2017 11:19		CCB 480-374381/49 08/28/2017 16:20		CCB 480-374381/60 08/28/2017 17:03		CCB 480-374381/72 08/28/2017 17:46	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		0.115	J	ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-374479/6 08/29/2017 14:28		CCB 480-374479/16 08/29/2017 15:09		CCB 480-374479/22 08/29/2017 16:00			
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.015	ND		ND		ND			
Aluminum	0.20	ND		ND		ND			
Antimony	0.020	ND		ND		ND			
Barium	0.0020	ND		ND		ND			
Beryllium	0.0020	ND		ND		ND			
Cadmium	0.0020	ND		ND		ND			
Calcium	0.50	ND		ND		ND			
Chromium	0.0040	ND		ND		ND			
Cobalt	0.0040	ND		ND		ND			
Copper	0.010	ND		ND		ND			
Iron	0.050	ND		ND		ND			
Lead	0.010	ND		ND		ND			
Magnesium	0.20	ND		ND		ND			
Manganese	0.0030	ND		ND		ND			
Nickel	0.010	ND		ND		ND			
Potassium	0.50	ND		ND		ND			
Selenium	0.025	ND		ND		ND			
Silver	0.0060	ND		ND		ND			
Sodium	1.0	ND		ND		ND			
Thallium	0.020	ND		ND		ND			
Vanadium	0.0050	ND		ND		ND			
Zinc	0.010	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-374045/2 08/25/2017 14:20		CCB 480-374045/5 08/25/2017 14:25		CCB 480-374045/17 08/25/2017 14:47		CCB 480-374045/29 08/25/2017 15:09	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-374303/2 08/28/2017 13:40		CCB 480-374303/65 08/28/2017 15:40		CCB 480-374303/77 08/28/2017 16:02		CCB 480-374303/83 08/28/2017 16:13	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-373992/1-A

Instrument Code: ICAP1 Batch No.: 374374

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	0.00134	J		6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-373973/1-B

Instrument Code: ICAP2 Batch No.: 374381

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	ND			6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	0.247	J		6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	0.00597	J		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-373942/1-A

Instrument Code: LEEMAN3 Batch No.: 374045

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-373973/1-E

Instrument Code: LEEMAN3 Batch No.: 374303

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: ICSA 480-374374/8 Instrument ID: ICAP1

Lab File ID: i1082817a-4.asc ICS Source: MEI_07_ICSA_00101

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**485**	**97**
Antimony		**0.0038**	
Arsenic		**-0.0087**	
Barium		**0.0010**	
Beryllium		**-0.0001**	
Cadmium		**0.0002**	
Calcium	**500**	**462**	**92**
Chromium		**0.0001**	
Cobalt		**0.0000**	
Copper		**0.0016**	
Iron	**200**	**188**	**94**
Lead		**-0.0097**	
Magnesium	**500**	**516**	**103**
Manganese		**0.0004**	
Nickel		**-0.0003**	
Potassium		**0.0999**	
Selenium		**-0.0080**	
Silver		**0.0007**	
Sodium		**0.0519**	
Thallium		**-0.0094**	
Vanadium		**-0.0002**	
Zinc		**0.0090**	
Boron		*0.0025*	
Lithium		*0.0042*	
Molybdenum		*0.0010*	
Silicon		*0.0275*	
Sulfur		*-0.192*	
Tin		*-0.0018*	
Titanium		*-0.0009*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: ICSAB 480-374374/9 Instrument ID: ICAP1

Lab File ID: i1082817a-4.asc ICS Source: MEI_08_ICSAB_00115

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**507**	**101**
Antimony	**0.600**	**0.601**	**100**
Arsenic	**0.100**	**0.0934**	**93**
Barium	**0.500**	**0.498**	**100**
Beryllium	**0.501**	**0.502**	**100**
Cadmium	**1.00**	**1.02**	**102**
Calcium	**500**	**462**	**92**
Chromium	**0.500**	**0.479**	**96**
Cobalt	**0.500**	**0.488**	**98**
Copper	**0.501**	**0.531**	**106**
Iron	**100**	**96.0**	**96**
Lead	**0.0501**	**0.0449**	**90**
Magnesium	**500**	**528**	**106**
Manganese	**0.501**	**0.495**	**99**
Nickel	**1.00**	**0.965**	**96**
Potassium		**0.0699**	
Selenium	**0.0501**	**0.0494**	**99**
Silver	**0.200**	**0.226**	**113**
Sodium		**0.177**	
Thallium	**0.100**	**0.0970**	**97**
Vanadium	**0.501**	**0.501**	**100**
Zinc	**1.00**	**0.919**	**92**
Boron		*0.0058*	
Lithium	*0.501*	*0.518*	*103*
Molybdenum		*0.0019*	
Silicon	*1.00*	*0.991*	*99*
Strontium	*0.500*	*0.489*	*98*
Sulfur	*1.00*	*0.805*	*80*
Tin		*-0.0021*	
Titanium		*0.0007*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: ICSA 480-374381/8 Instrument ID: ICAP2

Lab File ID: i2082817a-5.asc ICS Source: MEI_07_ICSA_00101

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**490**	**98**
Antimony		**-0.0101**	
Arsenic		**0.0003**	
Barium		**0.0006**	
Beryllium		**-0.0002**	
Cadmium		**-0.0004**	
Calcium	**500**	**469**	**94**
Chromium		**-0.0008**	
Cobalt		**-0.0010**	
Copper		**-0.0034**	
Iron	**200**	**190**	**95**
Lead		**-0.0030**	
Magnesium	**500**	**526**	**105**
Manganese		**-0.0002**	
Nickel		**-0.0022**	
Potassium		**0.0091**	
Selenium		**-0.0024**	
Silver		**-0.0011**	
Sodium		**0.0382**	
Thallium		**-0.0037**	
Vanadium		**0.0016**	
Zinc		**0.0066**	
Boron		*-0.0018*	
Lithium		*-0.0141*	
Molybdenum		*-0.0020*	
Silicon		*0.0198*	
Sulfur		*0.0354*	
Tin		*0.0031*	
Titanium		*-0.0006*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: ICSAB 480-374381/9 Instrument ID: ICAP2

Lab File ID: i2082817a-5.asc ICS Source: MEI_08_ICSAB_00115

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500**	**525**	**105**
Antimony	**0.600**	**0.614**	**102**
Arsenic	**0.100**	**0.110**	**110**
Barium	**0.500**	**0.504**	**101**
Beryllium	**0.501**	**0.518**	**103**
Cadmium	**1.00**	**1.04**	**104**
Calcium	**500**	**486**	**97**
Chromium	**0.500**	**0.492**	**98**
Cobalt	**0.500**	**0.502**	**100**
Copper	**0.501**	**0.536**	**107**
Iron	**100**	**97.9**	**98**
Lead	**0.0501**	**0.0481**	**96**
Magnesium	**500**	**543**	**109**
Manganese	**0.501**	**0.511**	**102**
Nickel	**1.00**	**0.996**	**100**
Potassium		**0.0097**	
Selenium	**0.0501**	**0.0524**	**105**
Silver	**0.200**	**0.229**	**114**
Sodium		**0.164**	
Thallium	**0.100**	**0.0977**	**98**
Vanadium	**0.501**	**0.517**	**103**
Zinc	**1.00**	**0.953**	**95**
Boron		*0.0024*	
Lithium	*0.501*	*0.512*	*102*
Molybdenum		*-0.0011*	
Silicon	*1.00*	*1.02*	*102*
Strontium	*0.500*	*0.498*	*100*
Sulfur	*1.00*	*1.07*	*107*
Tin		*0.0031*	
Titanium		*0.0007*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: ICSA 480-374479/8 Instrument ID: ICAP2

Lab File ID: I2082917A-1.asc ICS Source: MEI_07_ICSA_00101

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**0.0032**	
Aluminum	*500*	*458*	*92*
Antimony		*-0.0103*	
Barium		*0.0006*	
Beryllium		*-0.0002*	
Boron		*0.0033*	
Cadmium		*-0.0004*	
Calcium	*500*	*446*	*89*
Chromium		*0.0005*	
Cobalt		*-0.0012*	
Copper		*-0.0044*	
Iron	*200*	*175*	*87*
Lead		*-0.0013*	
Lithium		*-0.0121*	
Magnesium	*500*	*487*	*97*
Manganese		*-0.0002*	
Molybdenum		*-0.0019*	
Nickel		*-0.0017*	
Potassium		*-0.0254*	
Selenium		*-0.0053*	
Silicon		*0.0394*	
Silver		*-0.0020*	
Sodium		*0.0169*	
Sulfur		*0.0314*	
Thallium		*-0.0012*	
Tin		*0.0017*	
Titanium		*0.0001*	
Vanadium		*0.0017*	
Zinc		*0.0052*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Lab Sample ID: ICSAB 480-374479/9 Instrument ID: ICAP2

Lab File ID: I2082917A-1.asc ICS Source: MEI_08_ICSAB_00115

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**0.100**	**0.110**	**110**
Aluminum	*500*	*516*	*103*
Antimony	*0.600*	*0.598*	*100*
Barium	*0.500*	*0.495*	*99*
Beryllium	*0.501*	*0.510*	*102*
Boron		*0.0011*	
Cadmium	*1.00*	*1.02*	*102*
Calcium	*500*	*474*	*95*
Chromium	*0.500*	*0.490*	*98*
Cobalt	*0.500*	*0.491*	*98*
Copper	*0.501*	*0.526*	*105*
Iron	*100*	*95.7*	*95*
Lead	*0.0501*	*0.0490*	*98*
Lithium	*0.501*	*0.503*	*100*
Magnesium	*500*	*542*	*108*
Manganese	*0.501*	*0.505*	*101*
Molybdenum		*-0.0005*	
Nickel	*1.00*	*0.972*	*97*
Potassium		*-0.0721*	
Selenium	*0.0501*	*0.0504*	*101*
Silicon	*1.00*	*0.998*	*100*
Silver	*0.200*	*0.226*	*113*
Sodium		*0.156*	
Strontium	*0.500*	*0.492*	*98*
Sulfur	*1.00*	*1.05*	*105*
Thallium	*0.100*	*0.0958*	*96*
Tin		*0.0019*	
Titanium		*0.0010*	
Vanadium	*0.501*	*0.509*	*102*
Zinc	*1.00*	*0.940*	*94*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: NS-LDP-002-GW MS
Lab ID: 480-123215-2 MS
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.00612		ND		0.00667	92	80-120		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: NS-LDP-002-GW MSD
Lab ID: 480-123215-2 MSD
Lab Name: TestAmerica Buffalo
Job No.: 480-123215-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.00613		0.00667	92	80-120	0	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 480-373992/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

Sample Matrix: Water LCS Source: MED_02_W2_00041

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	9.92		99	80	120		6010C
Antimony	0.200	0.199		99	80	120		6010C
Arsenic	0.200	0.202		101	80	120		6010C
Barium	0.200	0.207		104	80	120		6010C
Beryllium	0.200	0.201		101	80	120		6010C
Cadmium	0.200	0.205		103	80	120		6010C
Calcium	10.0	10.06		101	80	120		6010C
Chromium	0.200	0.200		100	80	120		6010C
Cobalt	0.200	0.191		96	80	120		6010C
Copper	0.200	0.205		102	80	120		6010C
Iron	10.0	10.41		104	80	120		6010C
Lead	0.200	0.206		103	80	120		6010C
Magnesium	10.0	10.37		104	80	120		6010C
Manganese	0.200	0.213		106	80	120		6010C
Nickel	0.200	0.199		99	80	120		6010C
Potassium	10.0	10.05		100	80	120		6010C
Selenium	0.200	0.206		103	80	120		6010C
Silver	0.0500	0.0469		94	80	120		6010C
Sodium	10.0	9.92		99	80	120		6010C
Thallium	0.200	0.203		101	80	120		6010C
Vanadium	0.200	0.205		103	80	120		6010C
Zinc	0.200	0.205		102	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-373973/2-B

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

Sample Matrix: Water LCS Source: MED_02_W2_00041

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	9.95		100	80	120		6010C
Antimony	0.200	0.201		100	80	120		6010C
Arsenic	0.200	0.198		99	80	120		6010C
Barium	0.200	0.204		102	80	120		6010C
Beryllium	0.200	0.200		100	80	120		6010C
Cadmium	0.200	0.202		101	80	120		6010C
Calcium	10.0	9.85		98	80	120		6010C
Chromium	0.200	0.199		100	80	120		6010C
Cobalt	0.200	0.189		94	80	120		6010C
Copper	0.200	0.200		100	80	120		6010C
Iron	10.0	9.96		100	80	120		6010C
Lead	0.200	0.202		101	80	120		6010C
Magnesium	10.0	10.15		102	80	120		6010C
Manganese	0.200	0.206		103	80	120		6010C
Nickel	0.200	0.193		97	80	120		6010C
Potassium	10.0	10.16		102	80	120		6010C
Selenium	0.200	0.200		100	80	120		6010C
Silver	0.0500	0.0468		94	80	120		6010C
Sodium	10.0	10.13		101	80	120		6010C
Thallium	0.200	0.202		101	80	120		6010C
Vanadium	0.200	0.204		102	80	120		6010C
Zinc	0.200	0.206		103	80	120		6010C

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-373942/2-A

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_01561

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00622		93	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - DISSOLVED

Lab ID: LCS 480-373973/2-E

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_01562

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00612		92	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 480-123215-2

SDG No:

Lab Name: TestAmerica Buffalo Job No: 480-123215-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG Number:

Matrix: Water Instrument ID: ICAP1

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG Number:

Matrix: Water Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG Number:

Matrix: Water Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic	189.042	0.015	0.00555

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG Number:

Matrix: Water Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic	189.042	0.015	0.00555

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG Number:

Matrix: Water Instrument ID: ICAP2

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG Number:

Matrix: Water Instrument ID: ICAP2

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A MDL Date: 01/28/2010 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN3

Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 01/09/2017

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li
Aluminum	308.215														
Antimony	206.833										0.005500				
Arsenic	189.042		-0.000010								-0.012500				
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802			0.015000									-0.000003		
Calcium	317.933														
Chromium	267.716												-0.000007		
Cobalt	228.616												-0.000003		
Copper	327.396							0.000008							
Iron	259.940														
Lead	220.353		-0.000010									-0.000186	0.000040		
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610		0.000006										0.000014		
Molybdenum	202.030												-0.000008		
Nickel	231.604												0.000005		
Potassium	766.490														
Selenium	196.090		-0.000025												
Silicon	288.158														
Silver	328.068												-0.000012		
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856									0.001750					
Tin	189.989												0.000014		
Titanium	334.904														
Vanadium	292.402												0.000020		
Zinc	206.200										-0.002412		0.000006		

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 01/09/2017

Analyte	Wave Length	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl
Aluminum	308.215			0.028995											
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042													-0.000830	
Boron	208.959			0.033210											
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716		0.000051												
Cobalt	228.616			-0.001340										0.001459	
Copper	327.396														
Iron	259.940														
Lead	220.353			-0.002462				0.000226						-0.000703	
Lithium	670.784														
Magnesium	279.079		-0.006518	-0.021001											
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														0.000233
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068		0.000068												
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856		-0.000370												
Tin	189.989													0.000350	
Titanium	334.904			0.000523											
Vanadium	292.402		0.00001	-0.003000										0.000428	
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 01/09/2017

Analyte	Wave Length	V	Zn												
Aluminum	308.215	-0.020101													
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856														
Tin	189.989														
Titanium	334.904														
Vanadium	292.402														
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Al	As	Be	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Mo	Ni	Se
Aluminum	308.215												0.021502		
Antimony	206.833							0.015259		-0.000068					
Arsenic	189.042	-0.000017						-0.016071					-0.005260		
Barium	455.403														
Beryllium	313.042														
Boron	208.959												0.043278		
Cadmium	228.802		0.010934							-0.000006					
Calcium	317.933														
Chromium	267.716									-0.000010		0.000052			
Cobalt	228.616									-0.000003			-0.001257		
Copper	327.396				0.000030					-0.000034					
Iron	259.940														
Lead	220.353	-0.000020							0.000134	0.000031			-0.002133		
Lithium	670.784				0.000078										
Magnesium	279.079											-0.003617			
Manganese	257.610	0.000007								0.000008					
Molybdenum	202.030														
Nickel	231.604									0.000018					
Potassium	766.490														
Selenium	196.090	-0.000180										0.000419			
Silicon	288.158							-0.000713							
Silver	328.068											0.000149			
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034	-0.000327			-0.000197										
Thallium	190.856						0.001873					0.000754			
Tin	189.989														
Titanium	334.904				0.000010			0.000294					0.000785		
Vanadium	292.402									0.000020		0.000057	-0.009464		
Zinc	206.200							-0.000300							

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Si	Sn	Ti	Tl	V									
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042			-0.00065367											
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616			0.002032											
Copper	327.396			-0.00018661											
Iron	259.940														
Lead	220.353			-0.00070612											
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610					00080073									
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856					-0.006240									
Tin	189.989			-0.00012256											

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-123215-1

SDG No.:

ICP-AES Instrument ID: ICAP2 Date: 02/16/2017

Analyte	Wave Length	Si	Sn	Ti	Tl	V									
Titanium	334.904														
Vanadium	292.402			0.000751											
Zinc	206.200														

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-123215-1

SDG No.:

Instrument ID: ICAP1 Date: 02/16/2017 09:07

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	5000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-123215-1

SDG No.:

Instrument ID: ICAP2 Date: 02/16/2017 09:13

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	5000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo Job No: 480-123215-1

SDG No.:

Instrument ID: LEEMAN3 Date: 10/13/2015 15:08

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-373992/1-A	08/28/2017 07:46	373992		50	50
LCS 480-373992/2-A	08/28/2017 07:46	373992		50	50
480-123215-1	08/28/2017 07:46	373992		50	50
480-123215-2	08/28/2017 07:46	373992		50	50
480-123215-3	08/28/2017 07:46	373992		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-373973/1-B	08/28/2017 07:46	374132		50	50
LCS 480-373973/2-B	08/28/2017 07:46	374132		50	50
480-123215-1	08/28/2017 07:46	374132		50	50
480-123215-2	08/28/2017 07:46	374132		50	50
480-123215-3	08/28/2017 07:46	374132		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-373942/1-A	08/25/2017 11:15	373942		30	50
LCS 480-373942/2-A	08/25/2017 11:15	373942		30	50
480-123215-1	08/25/2017 11:15	373942		30	50
480-123215-2	08/25/2017 11:15	373942		30	50
480-123215-3	08/25/2017 11:15	373942		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-373973/1-E	08/28/2017 10:45	374203		30	50
LCS 480-373973/2-E	08/28/2017 10:45	374203		30	50
480-123215-1	08/28/2017 10:45	374203		30	50
480-123215-2	08/28/2017 10:45	374203		30	50
480-123215-2 MS	08/28/2017 10:45	374203		30	50
480-123215-2 MSD	08/28/2017 10:45	374203		30	50
480-123215-3	08/28/2017 10:45	374203		30	50

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/28/2017 14:09 End Date: 08/28/2017 20:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-374374/1	1		14:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-374374/2			14:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-374374/3			14:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-374374/4			14:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-374374/5	1		14:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-374374/6	1		14:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-374374/7	1		14:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-374374/8	1		14:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-374374/9	1		14:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			14:42																				
ZZZZZZ			14:46																				
ZZZZZZ			14:49																				
ZZZZZZ			14:53																				
ZZZZZZ			14:57																				
CCV 480-374374/15			15:00																				
CCB 480-374374/16			15:04																				
CCV 480-374374/17	1		17:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-374374/18	1		17:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-374374/19	1		17:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-373992/1-A	1	R	17:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-373992/2-A	1	R	17:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-374374/22	1		17:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-374374/23	1		17:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-374374/24	1		18:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-123215-1	1	R	18:05	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-123215-2	1	R	18:09	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-123215-3	1	R	18:12	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			18:16																				
ZZZZZZ			18:19																				
ZZZZZZ			18:23																				
ZZZZZZ			18:27																				
ZZZZZZ			18:30																				
ZZZZZZ			18:34																				
CCV 480-374374/34	1		18:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-374374/35	1		18:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-374374/36	1		18:44	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			18:48																				
ZZZZZZ			18:52																				
ZZZZZZ			18:55																				
ZZZZZZ			18:59																				
ZZZZZZ			19:03																				
ZZZZZZ			19:06																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/28/2017 14:09 End Date: 08/28/2017 20:11

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			19:10																					
ZZZZZZ			19:14																					
ZZZZZZ			19:17																					
CCV 480-374374/46			19:21																					
CCB 480-374374/47			19:25																					
CCVL 480-374374/48			19:28																					
ZZZZZZ			19:32																					
ZZZZZZ			19:35																					
ZZZZZZ			19:39																					
ZZZZZZ			19:43																					
ZZZZZZ			19:46																					
ZZZZZZ			19:50																					
CCV 480-374374/55			20:04																					
CCB 480-374374/56			20:08																					
CCVL 480-374374/57			20:11																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/28/2017 14:09 End Date: 08/28/2017 20:11

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-374374/1	1		14:09	X	X																		
IC 480-374374/2			14:13	X	X																		
IC 480-374374/3			14:17	X	X																		
IC 480-374374/4			14:20	X	X																		
ICV 480-374374/5	1		14:24	X	X																		
ICB 480-374374/6	1		14:27	X	X																		
ICVL 480-374374/7	1		14:31	X	X																		
ICSA 480-374374/8	1		14:34	X	X																		
ICSAB 480-374374/9	1		14:38	X	X																		
ZZZZZZ			14:42																				
ZZZZZZ			14:46																				
ZZZZZZ			14:49																				
ZZZZZZ			14:53																				
ZZZZZZ			14:57																				
CCV 480-374374/15			15:00																				
CCB 480-374374/16			15:04																				
CCV 480-374374/17	1		17:11	X	X																		
CCB 480-374374/18	1		17:15	X	X																		
CCVL 480-374374/19	1		17:19	X	X																		
MB 480-373992/1-A	1	R	17:47	X	X																		
LCS 480-373992/2-A	1	R	17:51	X	X																		
CCV 480-374374/22	1		17:54	X	X																		
CCB 480-374374/23	1		17:58	X	X																		
CCVL 480-374374/24	1		18:02	X	X																		
480-123215-1	1	R	18:05	X	X																		
480-123215-2	1	R	18:09	X	X																		
480-123215-3	1	R	18:12	X	X																		
ZZZZZZ			18:16																				
ZZZZZZ			18:19																				
ZZZZZZ			18:23																				
ZZZZZZ			18:27																				
ZZZZZZ			18:30																				
ZZZZZZ			18:34																				
CCV 480-374374/34	1		18:37	X	X																		
CCB 480-374374/35	1		18:41	X	X																		
CCVL 480-374374/36	1		18:44	X	X																		
ZZZZZZ			18:48																				
ZZZZZZ			18:52																				
ZZZZZZ			18:55																				
ZZZZZZ			18:59																				
ZZZZZZ			19:03																				
ZZZZZZ			19:06																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/28/2017 14:09 End Date: 08/28/2017 20:11

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			19:10																				
ZZZZZZ			19:14																				
ZZZZZZ			19:17																				
CCV 480-374374/46			19:21																				
CCB 480-374374/47			19:25																				
CCVL 480-374374/48			19:28																				
ZZZZZZ			19:32																				
ZZZZZZ			19:35																				
ZZZZZZ			19:39																				
ZZZZZZ			19:43																				
ZZZZZZ			19:46																				
ZZZZZZ			19:50																				
CCV 480-374374/55			20:04																				
CCB 480-374374/56			20:08																				
CCVL 480-374374/57			20:11																				

Prep Types

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 08/28/2017 11:02 End Date: 08/28/2017 21:24

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-374381/1	1		11:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-374381/2			11:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-374381/3			11:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-374381/4			11:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-374381/5	1		11:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-374381/6	1		11:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-374381/7	1		11:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-374381/8	1		11:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-374381/9	1		11:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			11:34																				
ZZZZZZ			11:38																				
ZZZZZZ			11:41																				
ZZZZZZ			11:49																				
ZZZZZZ			11:52																				
CCV 480-374381/15			11:56																				
CCB 480-374381/16			11:59																				
CCVL 480-374381/17			12:03																				
CCV 480-374381/18			14:06																				
CCB 480-374381/19			14:10																				
CCVL 480-374381/20			14:13																				
ZZZZZZ			14:39																				
ZZZZZZ			14:43																				
ZZZZZZ			14:46																				
CCV 480-374381/24			14:50																				
CCB 480-374381/25			14:53																				
CCVL 480-374381/26			14:57																				
ZZZZZZ			15:01																				
ZZZZZZ			15:04																				
ZZZZZZ			15:08																				
ZZZZZZ			15:11																				
ZZZZZZ			15:15																				
ZZZZZZ			15:19																				
ZZZZZZ			15:22																				
ZZZZZZ			15:26																				
ZZZZZZ			15:30																				
CCV 480-374381/36			15:33																				
CCB 480-374381/37			15:37																				
CCVL 480-374381/38			15:40																				
ZZZZZZ			15:44																				
ZZZZZZ			15:47																				
ZZZZZZ			15:51																				
ZZZZZZ			15:55																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 08/28/2017 11:02 End Date: 08/28/2017 21:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			15:58																				
ZZZZZZ			16:02																				
ZZZZZZ			16:05																				
ZZZZZZ			16:09																				
ZZZZZZ			16:13																				
CCV 480-374381/48	1		16:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-374381/49	1		16:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-374381/50	1		16:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			16:27																				
ZZZZZZ			16:31																				
ZZZZZZ			16:34																				
ZZZZZZ			16:38																				
ZZZZZZ			16:41																				
ZZZZZZ			16:45																				
MB 480-373973/1-B	1	D	16:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-373973/2-B	1	D	16:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-374381/59	1		16:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-374381/60	1		17:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-374381/61	1		17:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			17:10																				
ZZZZZZ			17:14																				
ZZZZZZ			17:17																				
ZZZZZZ			17:21																				
ZZZZZZ			17:24																				
ZZZZZZ			17:28																				
480-123215-1	1	D	17:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-123215-2	1	D	17:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-123215-3	1	D	17:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-374381/71	1		17:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-374381/72	1		17:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-374381/73	1		17:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			17:53																				
ZZZZZZ			17:56																				
ZZZZZZ			18:00																				
ZZZZZZ			18:07																				
ZZZZZZ			18:11																				
ZZZZZZ			18:15																				
ZZZZZZ			18:18																				
ZZZZZZ			18:22																				
CCV 480-374381/82			18:25																				
CCB 480-374381/83			18:29																				
CCVL 480-374381/84			18:32																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 08/28/2017 11:02 End Date: 08/28/2017 21:24

Lab Sample ID	D/F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			18:36																					
ZZZZZZ			18:39																					
ZZZZZZ			18:46																					
ZZZZZZ			18:50																					
ZZZZZZ			18:54																					
ZZZZZZ			18:57																					
ZZZZZZ			19:01																					
ZZZZZZ			19:04																					
CCV 480-374381/93			19:08																					
CCB 480-374381/94			19:11																					
CCVL 480-374381/95			19:15																					
ZZZZZZ			19:19																					
ZZZZZZ			19:22																					
ZZZZZZ			19:26																					
ZZZZZZ			19:29																					
ZZZZZZ			19:33																					
ZZZZZZ			19:37																					
ZZZZZZ			19:40																					
ZZZZZZ			19:44																					
ZZZZZZ			19:47																					
CCV 480-374381/105			19:51																					
CCB 480-374381/106			19:54																					
CCVL 480-374381/107			19:58																					
ZZZZZZ			20:02																					
ZZZZZZ			20:05																					
ZZZZZZ			20:09																					
ZZZZZZ			20:12																					
ZZZZZZ			20:16																					
ZZZZZZ			20:19																					
ZZZZZZ			20:23																					
ZZZZZZ			20:27																					
ZZZZZZ			20:30																					
CCV 480-374381/117			20:34																					
CCB 480-374381/118			20:37																					
CCVL 480-374381/119			20:41																					
ZZZZZZ			20:45																					
ZZZZZZ			20:48																					
ZZZZZZ			20:52																					
CCV 480-374381/123			21:17																					
CCB 480-374381/124			21:20																					
CCVL 480-374381/125			21:24																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 08/28/2017 11:02 End Date: 08/28/2017 21:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-374381/1	1		11:02	X	X																		
IC 480-374381/2			11:05	X	X																		
IC 480-374381/3			11:09	X	X																		
IC 480-374381/4			11:13	X	X																		
ICV 480-374381/5	1		11:16	X	X																		
ICB 480-374381/6	1		11:19	X	X																		
ICVL 480-374381/7	1		11:23	X	X																		
ICSA 480-374381/8	1		11:27	X	X																		
ICSAB 480-374381/9	1		11:30	X	X																		
ZZZZZZ			11:34																				
ZZZZZZ			11:38																				
ZZZZZZ			11:41																				
ZZZZZZ			11:49																				
ZZZZZZ			11:52																				
CCV 480-374381/15			11:56																				
CCB 480-374381/16			11:59																				
CCVL 480-374381/17			12:03																				
CCV 480-374381/18			14:06																				
CCB 480-374381/19			14:10																				
CCVL 480-374381/20			14:13																				
ZZZZZZ			14:39																				
ZZZZZZ			14:43																				
ZZZZZZ			14:46																				
CCV 480-374381/24			14:50																				
CCB 480-374381/25			14:53																				
CCVL 480-374381/26			14:57																				
ZZZZZZ			15:01																				
ZZZZZZ			15:04																				
ZZZZZZ			15:08																				
ZZZZZZ			15:11																				
ZZZZZZ			15:15																				
ZZZZZZ			15:19																				
ZZZZZZ			15:22																				
ZZZZZZ			15:26																				
ZZZZZZ			15:30																				
CCV 480-374381/36			15:33																				
CCB 480-374381/37			15:37																				
CCVL 480-374381/38			15:40																				
ZZZZZZ			15:44																				
ZZZZZZ			15:47																				
ZZZZZZ			15:51																				
ZZZZZZ			15:55																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 08/28/2017 11:02 End Date: 08/28/2017 21:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			15:58																				
ZZZZZZ			16:02																				
ZZZZZZ			16:05																				
ZZZZZZ			16:09																				
ZZZZZZ			16:13																				
CCV 480-374381/48	1		16:16	X	X																		
CCB 480-374381/49	1		16:20	X	X																		
CCVL 480-374381/50	1		16:23	X	X																		
ZZZZZZ			16:27																				
ZZZZZZ			16:31																				
ZZZZZZ			16:34																				
ZZZZZZ			16:38																				
ZZZZZZ			16:41																				
ZZZZZZ			16:45																				
MB 480-373973/1-B	1	D	16:52	X	X																		
LCS 480-373973/2-B	1	D	16:56	X	X																		
CCV 480-374381/59	1		16:59	X	X																		
CCB 480-374381/60	1		17:03	X	X																		
CCVL 480-374381/61	1		17:07	X	X																		
ZZZZZZ			17:10																				
ZZZZZZ			17:14																				
ZZZZZZ			17:17																				
ZZZZZZ			17:21																				
ZZZZZZ			17:24																				
ZZZZZZ			17:28																				
480-123215-1	1	D	17:31	X	X																		
480-123215-2	1	D	17:35	X	X																		
480-123215-3	1	D	17:38	X	X																		
CCV 480-374381/71	1		17:42	X	X																		
CCB 480-374381/72	1		17:46	X	X																		
CCVL 480-374381/73	1		17:49	X	X																		
ZZZZZZ			17:53																				
ZZZZZZ			17:56																				
ZZZZZZ			18:00																				
ZZZZZZ			18:07																				
ZZZZZZ			18:11																				
ZZZZZZ			18:15																				
ZZZZZZ			18:18																				
ZZZZZZ			18:22																				
CCV 480-374381/82			18:25																				
CCB 480-374381/83			18:29																				
CCVL 480-374381/84			18:32																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 08/28/2017 11:02 End Date: 08/28/2017 21:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			18:36																				
ZZZZZZ			18:39																				
ZZZZZZ			18:46																				
ZZZZZZ			18:50																				
ZZZZZZ			18:54																				
ZZZZZZ			18:57																				
ZZZZZZ			19:01																				
ZZZZZZ			19:04																				
CCV 480-374381/93			19:08																				
CCB 480-374381/94			19:11																				
CCVL 480-374381/95			19:15																				
ZZZZZZ			19:19																				
ZZZZZZ			19:22																				
ZZZZZZ			19:26																				
ZZZZZZ			19:29																				
ZZZZZZ			19:33																				
ZZZZZZ			19:37																				
ZZZZZZ			19:40																				
ZZZZZZ			19:44																				
ZZZZZZ			19:47																				
CCV 480-374381/105			19:51																				
CCB 480-374381/106			19:54																				
CCVL 480-374381/107			19:58																				
ZZZZZZ			20:02																				
ZZZZZZ			20:05																				
ZZZZZZ			20:09																				
ZZZZZZ			20:12																				
ZZZZZZ			20:16																				
ZZZZZZ			20:19																				
ZZZZZZ			20:23																				
ZZZZZZ			20:27																				
ZZZZZZ			20:30																				
CCV 480-374381/117			20:34																				
CCB 480-374381/118			20:37																				
CCVL 480-374381/119			20:41																				
ZZZZZZ			20:45																				
ZZZZZZ			20:48																				
ZZZZZZ			20:52																				
CCV 480-374381/123			21:17																				
CCB 480-374381/124			21:20																				
CCVL 480-374381/125			21:24																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 08/28/2017 11:02 End Date: 08/28/2017 21:24

Prep Types
D = Dissolved

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: ICAP2 Method: 6010C

Start Date: 08/29/2017 14:03 End Date: 08/29/2017 16:04

Lab Sample ID	D / F	Type	Time	Analytes																			
				As																			
ICIS 480-374479/1	1		14:03	X																			
IC 480-374479/2			14:07	X																			
IC 480-374479/3			14:10	X																			
IC 480-374479/4			14:14	X																			
ICV 480-374479/5	1		14:17	X																			
ICB 480-374479/6	1		14:28	X																			
ICVL 480-374479/7	1		14:32	X																			
ICSA 480-374479/8	1		14:35	X																			
ICSAB 480-374479/9	1		14:39	X																			
ZZZZZZ			14:43																				
ZZZZZZ			14:46																				
ZZZZZZ			14:50																				
ZZZZZZ			14:58																				
ZZZZZZ			15:02																				
CCV 480-374479/15	1		15:05	X																			
CCB 480-374479/16	1		15:09	X																			
CCVL 480-374479/17	1		15:21	X																			
480-123215-1	1	R	15:24	X																			
480-123215-2	1	R	15:28	X																			
480-123215-3	1	R	15:31	X																			
CCV 480-374479/21	1		15:57	X																			
CCB 480-374479/22	1		16:00	X																			
CCVL 480-374479/23	1		16:04	X																			

Prep Types

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 08/25/2017 14:18 End Date: 08/25/2017 16:26

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-374045/1	1		14:18	X																			
ICB 480-374045/2	1		14:20	X																			
ICVL 480-374045/3	1		14:22	X																			
CCV 480-374045/4	1		14:23	X																			
CCB 480-374045/5	1		14:25	X																			
MB 480-373942/1-A	1	T	14:27	X																			
LCS 480-373942/2-A	1	T	14:29	X																			
ZZZZZZ			14:30																				
ZZZZZZ			14:32																				
ZZZZZZ			14:33																				
ZZZZZZ			14:36																				
ZZZZZZ			14:37																				
ZZZZZZ			14:39																				
ZZZZZZ			14:41																				
ZZZZZZ			14:43																				
CCV 480-374045/16	1		14:46	X																			
CCB 480-374045/17	1		14:47	X																			
ZZZZZZ			14:49																				
ZZZZZZ			14:51																				
ZZZZZZ			14:53																				
480-123215-1	1	T	14:54	X																			
480-123215-2	1	T	14:56	X																			
480-123215-3	1	T	14:58	X																			
ZZZZZZ			14:59																				
ZZZZZZ			15:02																				
ZZZZZZ			15:04																				
ZZZZZZ			15:05																				
CCV 480-374045/28	1		15:07	X																			
CCB 480-374045/29	1		15:09	X																			
ZZZZZZ			15:11																				
ZZZZZZ			15:12																				
ZZZZZZ			15:14																				
ZZZZZZ			15:16																				
ZZZZZZ			15:17																				
ZZZZZZ			15:19																				
ZZZZZZ			15:21																				
ZZZZZZ			15:23																				
ZZZZZZ			15:25																				
ZZZZZZ			15:27																				
CCV 480-374045/40			15:28																				
CCB 480-374045/41			15:31																				
ZZZZZZ			15:33																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 08/25/2017 14:18 End Date: 08/25/2017 16:26

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:35																				
ZZZZZZ			15:37																				
ZZZZZZ			15:38																				
ZZZZZZ			15:40																				
ZZZZZZ			15:42																				
ZZZZZZ			15:45																				
ZZZZZZ			15:48																				
ZZZZZZ			15:50																				
ZZZZZZ			15:51																				
CCV 480-374045/52			15:53																				
CCB 480-374045/53			15:55																				
ZZZZZZ			15:56																				
ZZZZZZ			15:58																				
ZZZZZZ			16:00																				
ZZZZZZ			16:02																				
ZZZZZZ			16:04																				
ZZZZZZ			16:06																				
ZZZZZZ			16:08																				
ZZZZZZ			16:10																				
ZZZZZZ			16:12																				
ZZZZZZ			16:14																				
CCV 480-374045/64			16:16																				
CCB 480-374045/65			16:18																				
ZZZZZZ			16:20																				
CCV 480-374045/67			16:21																				
CCB 480-374045/68			16:24																				
CCVL 480-374045/69	1		16:26	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 08/28/2017 13:38 End Date: 08/28/2017 16:28

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ICV 480-374303/1	1		13:38	X																			
ICB 480-374303/2	1		13:40	X																			
ICVL 480-374303/3	1		13:42	X																			
CCV 480-374303/4			13:43																				
CCB 480-374303/5			13:46																				
ZZZZZZ			13:47																				
ZZZZZZ			13:49																				
ZZZZZZ			13:51																				
ZZZZZZ			13:52																				
ZZZZZZ			13:54																				
ZZZZZZ			13:57																				
ZZZZZZ			13:58																				
ZZZZZZ			14:00																				
ZZZZZZ			14:02																				
ZZZZZZ			14:04																				
CCV 480-374303/16			14:07																				
CCB 480-374303/17			14:09																				
ZZZZZZ			14:11																				
ZZZZZZ			14:12																				
ZZZZZZ			14:14																				
ZZZZZZ			14:16																				
ZZZZZZ			14:18																				
ZZZZZZ			14:20																				
ZZZZZZ			14:21																				
ZZZZZZ			14:23																				
ZZZZZZ			14:25																				
ZZZZZZ			14:27																				
CCV 480-374303/28			14:29																				
CCB 480-374303/29			14:30																				
ZZZZZZ			14:33																				
ZZZZZZ			14:34																				
ZZZZZZ			14:36																				
ZZZZZZ			14:38																				
ZZZZZZ			14:39																				
ZZZZZZ			14:41																				
ZZZZZZ			14:43																				
ZZZZZZ			14:44																				
ZZZZZZ			14:46																				
ZZZZZZ			14:48																				
CCV 480-374303/40			14:50																				
CCB 480-374303/41			14:52																				
ZZZZZZ			14:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 08/28/2017 13:38 End Date: 08/28/2017 16:28

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:56																				
ZZZZZZ			14:58																				
ZZZZZZ			15:00																				
ZZZZZZ			15:02																				
ZZZZZZ			15:04																				
ZZZZZZ			15:06																				
ZZZZZZ			15:08																				
ZZZZZZ			15:10																				
ZZZZZZ			15:12																				
CCV 480-374303/52			15:14																				
CCB 480-374303/53			15:17																				
ZZZZZZ			15:20																				
ZZZZZZ			15:22																				
ZZZZZZ			15:24																				
ZZZZZZ			15:26																				
ZZZZZZ			15:28																				
ZZZZZZ			15:30																				
ZZZZZZ			15:32																				
ZZZZZZ			15:34																				
ZZZZZZ			15:35																				
ZZZZZZ			15:37																				
CCV 480-374303/64	1		15:39	X																			
CCB 480-374303/65	1		15:40	X																			
ZZZZZZ			15:43																				
ZZZZZZ			15:44																				
ZZZZZZ			15:46																				
ZZZZZZ			15:48																				
ZZZZZZ			15:49																				
ZZZZZZ			15:51																				
MB 480-373973/1-E	1	D	15:53	X																			
LCS 480-373973/2-E	1	D	15:55	X																			
480-123215-1	1	D	15:57	X																			
480-123215-2	1	D	15:59	X																			
CCV 480-374303/76	1		16:00	X																			
CCB 480-374303/77	1		16:02	X																			
480-123215-2 SD	5	D	16:04	X																			
480-123215-2 MS	1	D	16:05	X																			
480-123215-2 MSD	1	D	16:07	X																			
480-123215-3	1	D	16:09	X																			
CCV 480-374303/82	1		16:11	X																			
CCB 480-374303/83	1		16:13	X																			
CCVL 480-374303/84	1		16:15	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Instrument ID: LEEMAN3 Method: 7470A

Start Date: 08/28/2017 13:38 End Date: 08/28/2017 16:28

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:20																				
ZZZZZZ			16:22																				
CCV 480-374303/87			16:24																				
CCB 480-374303/88			16:26																				
CCVL 480-374303/89			16:28																				

Prep Types

D = Dissolved

Run File: i1082817a

Instrument: ICAP1

Analyst: jrk

Data Review: 8/29/17

Spikes Ids: 4027863 (W1), 3903387 (W2), 4076679(Sn), 4076667(Ag), 4133962(Si), 3933362 (S), 3885452(TCLP)
Pipette Ids:06/16/17-(1-9,11,12,13)
Internal Standard:4187666

Seq#	Run File ID	Sample ID	Date / Time	Type
1	i1082817a	ICIS-4204839	08/28/17 02:09 PM	Standard
2	i1082817a	IC-4209929	08/28/17 02:13 PM	Standard
3	i1082817a	IC-4207542	08/28/17 02:17 PM	Standard
4	i1082817a	IC-4207541	08/28/17 02:20 PM	Standard
5	i1082817a	ICV-4204840	08/28/17 02:24 PM	QC
6	i1082817a	ICB-4204839	08/28/17 02:27 PM	QC
7	i1082817a	ICVL-4209929	08/28/17 02:31 PM	QC
8	i1082817a	ICSA-4090634	08/28/17 02:34 PM	QC
9	i1082817a	ICSAB-4167458	08/28/17 02:38 PM	QC
10	i1082817a	ICEX1	08/28/17 02:42 PM	Unknown
11	i1082817a	ICEX2	08/28/17 02:46 PM	Unknown
12	i1082817a	ICEX3	08/28/17 02:49 PM	Unknown
13	i1082817a	ICEX4	08/28/17 02:53 PM	Unknown
14	i1082817a	ICEX5	08/28/17 02:57 PM	Unknown
15	i1082817a	CCV-4198708	08/28/17 03:00 PM	QC
16	i1082817a	CCB-4204839	08/28/17 03:04 PM	QC
17	i1082817a	CCVL-4209929	08/28/17 03:09 PM	QC
18	i1082817a	MB 480-373533/1-B	08/28/17 03:13 PM	Unknown
19	i1082817a	480-123019-F-1-B@2	08/28/17 03:17 PM	Unknown
20	i1082817a	480-123019-G-2-B@10	08/28/17 03:20 PM	Unknown
21	i1082817a	480-123019-G-3-B@2	08/28/17 03:24 PM	Unknown
22	i1082817a	480-123019-H-4-B@2	08/28/17 03:27 PM	Unknown
23	i1082817a	480-123019-G-5-B@10	08/28/17 03:31 PM	Unknown
24	i1082817a	480-123050-G-2-B@5	08/28/17 03:34 PM	Unknown
25	i1082817a	BLANK	08/28/17 03:38 PM	Unknown
26	i1082817a	480-123131-A-1-A@5	08/28/17 03:42 PM	Unknown
27	i1082817a	CCV-4198708	08/28/17 03:45 PM	QC
28	i1082817a	CCB-4204839	08/28/17 03:49 PM	QC
29	i1082817a	CCVL-4209929	08/28/17 03:52 PM	QC
30	i1082817a	480-123131-A-2-A@5	08/28/17 03:56 PM	Unknown
31	i1082817a	480-123131-A-4-A@5	08/28/17 04:00 PM	Unknown
32	i1082817a	480-123131-A-5-A@5	08/28/17 04:03 PM	Unknown
33	i1082817a	480-123131-A-6-A@5	08/28/17 04:07 PM	Unknown
34	i1082817a	480-123131-A-7-A@5	08/28/17 04:10 PM	Unknown
35	i1082817a	480-123131-A-8-A@5	08/28/17 04:14 PM	Unknown
36	i1082817a	480-123019-G-1-B@2	08/28/17 04:17 PM	Unknown
37	i1082817a	480-123019-H-2-B@10	08/28/17 04:21 PM	Unknown
38	i1082817a	480-123019-H-3-B@2	08/28/17 04:25 PM	Unknown
39	i1082817a	CCV-4198708	08/28/17 04:28 PM	QC
40	i1082817a	CCB-4204839	08/28/17 04:32 PM	QC
41	i1082817a	CCVL-4209929	08/28/17 04:35 PM	QC
42	i1082817a	480-123019-G-4-B@2	08/28/17 04:39 PM	Unknown

43	i1082817a	480-123019-H-5-B@10	08/28/17 04:42 PM Unknown
44	i1082817a	480-123050-H-2-B@5	08/28/17 04:46 PM Unknown
45	i1082817a	480-123052-E-1-A	08/28/17 04:50 PM Unknown
46	i1082817a	BLANK	08/28/17 04:53 PM Unknown
47	i1082817a	480-123164-B-3-A	08/28/17 04:57 PM Unknown
48	i1082817a	480-123157-E-1-A@5	08/28/17 05:00 PM Unknown
49	i1082817a	480-123157-E-2-A@2	08/28/17 05:04 PM Unknown
50	i1082817a	480-123157-E-3-A@2	08/28/17 05:08 PM Unknown
51	i1082817a	CCV-4198708	08/28/17 05:11 PM QC
52	i1082817a	CCB-4204839	08/28/17 05:15 PM QC
53	i1082817a	CCVL-4209929	08/28/17 05:19 PM QC
54	i1082817a	480-123157-E-4-A@5	08/28/17 05:22 PM Unknown
55	i1082817a	480-123157-E-7-A@5	08/28/17 05:26 PM Unknown
56	i1082817a	480-123157-E-8-A@5	08/28/17 05:29 PM Unknown
57	i1082817a	BLANK	08/28/17 05:33 PM Unknown
58	i1082817a	480-123047-D-2-B@50	08/28/17 05:37 PM Unknown
59	i1082817a	123028-6 TOT	08/28/17 05:40 PM Unknown
60	i1082817a	BLANK	08/28/17 05:44 PM Unknown
61	i1082817a	MB 480-373992/1-A	08/28/17 05:47 PM Unknown
62	i1082817a	LCS 480-373992/2-A	08/28/17 05:51 PM Unknown
63	i1082817a	CCV-4198708	08/28/17 05:54 PM QC
64	i1082817a	CCB-4204839	08/28/17 05:58 PM QC
65	i1082817a	CCVL-4209929	08/28/17 06:02 PM QC
66	i1082817a	480-123215-G-1-B	08/28/17 06:05 PM Unknown
67	i1082817a	480-123215-G-2-B	08/28/17 06:09 PM Unknown
68	i1082817a	480-123215-G-3-B	08/28/17 06:12 PM Unknown
69	i1082817a	480-123167-A-1-A	08/28/17 06:16 PM Unknown
70	i1082817a	480-123167-A-1-Asd@5	08/28/17 06:19 PM Unknown
71	i1082817a	480-123167-A-1-A pds	08/28/17 06:23 PM Unknown
72	i1082817a	480-123167-A-1-B MS	08/28/17 06:27 PM Unknown
73	i1082817a	480-123167-A-1-C MSD	08/28/17 06:30 PM Unknown
74	i1082817a	480-123167-A-2-A	08/28/17 06:34 PM Unknown
75	i1082817a	CCV-4198708	08/28/17 06:37 PM QC
76	i1082817a	CCB-4204839	08/28/17 06:41 PM QC
77	i1082817a	CCVL-4209929	08/28/17 06:44 PM QC
78	i1082817a	480-123167-A-3-A	08/28/17 06:48 PM Unknown
79	i1082817a	480-123167-A-4-A	08/28/17 06:52 PM Unknown
80	i1082817a	480-123167-A-5-A	08/28/17 06:55 PM Unknown
81	i1082817a	480-123167-A-6-A	08/28/17 06:59 PM Unknown
82	i1082817a	480-123167-A-7-A	08/28/17 07:03 PM Unknown
83	i1082817a	480-123167-A-8-A	08/28/17 07:06 PM Unknown
84	i1082817a	480-123167-A-9-A	08/28/17 07:10 PM Unknown
85	i1082817a	480-123167-A-10-A	08/28/17 07:14 PM Unknown
86	i1082817a	480-123167-A-11-A	08/28/17 07:17 PM Unknown
87	i1082817a	CCV-4198708	08/28/17 07:21 PM QC
88	i1082817a	CCB-4204839	08/28/17 07:25 PM QC
89	i1082817a	CCVL-4209929	08/28/17 07:28 PM QC
90	i1082817a	480-123167-A-12-A	08/28/17 07:32 PM Unknown
91	i1082817a	480-123167-A-13-A	08/28/17 07:35 PM Unknown
92	i1082817a	480-123167-A-14-A	08/28/17 07:39 PM Unknown
93	i1082817a	480-123167-A-15-A	08/28/17 07:43 PM Unknown
94	i1082817a	480-123222-C-1-A	08/28/17 07:46 PM Unknown

95	i1082817a	480-123222-C-2-A	08/28/17 07:50 PM Unknown
96	i1082817a	blank	08/28/17 07:54 PM Unknown
97	i1082817a	MB 480-374153/1-A	08/28/17 07:57 PM Unknown
98	i1082817a	LCS 480-374153/2-A	08/28/17 08:01 PM Unknown
99	i1082817a	CCV-4198708	08/28/17 08:04 PM QC
100	i1082817a	CCB-4204839	08/28/17 08:08 PM QC
101	i1082817a	CCVL-4209929	08/28/17 08:11 PM QC
102	i1082817a	480-123286-A-1-A	08/28/17 08:15 PM Unknown
103	i1082817a	480-123236-A-1-A	08/28/17 08:18 PM Unknown
104	i1082817a	480-123282-B-1-A	08/28/17 08:22 PM Unknown
105	i1082817a	480-123280-B-1-A	08/28/17 08:26 PM Unknown
106	i1082817a	480-123280-B-1-Asd@5	08/28/17 08:29 PM Unknown
107	i1082817a	480-123280-B-1-A pds	08/28/17 08:33 PM Unknown
108	i1082817a	480-123280-B-1-B MS	08/28/17 08:36 PM Unknown
109	i1082817a	480-123280-B-1-C MSD	08/28/17 08:40 PM Unknown
110	i1082817a	480-123246-E-1-A	08/28/17 08:43 PM Unknown
111	i1082817a	CCV-4198708	08/28/17 08:47 PM QC
112	i1082817a	CCB-4204839	08/28/17 08:50 PM QC
113	i1082817a	CCVL-4209929	08/28/17 08:54 PM QC
114	i1082817a	480-123258-C-1-A	08/28/17 08:58 PM Unknown
115	i1082817a	480-123258-C-2-A	08/28/17 09:01 PM Unknown
116	i1082817a	480-123258-C-3-A	08/28/17 09:05 PM Unknown
117	i1082817a	480-123243-E-1-A	08/28/17 09:08 PM Unknown
118	i1082817a	480-123266-A-1-A	08/28/17 09:12 PM Unknown
119	i1082817a	480-123268-A-2-A	08/28/17 09:16 PM Unknown
120	i1082817a	480-123268-A-2-B MS	08/28/17 09:19 PM Unknown
121	i1082817a	480-123268-A-2-C MSD	08/28/17 09:23 PM Unknown
122	i1082817a	480-123219-B-1-A	08/28/17 09:26 PM Unknown
123	i1082817a	CCV-4198708	08/28/17 09:30 PM QC
124	i1082817a	CCB-4204839	08/28/17 09:33 PM QC
125	i1082817a	CCVL-4209929	08/28/17 09:37 PM QC
126	i1082817a	480-123219-B-2-A	08/28/17 09:41 PM Unknown
127	i1082817a	480-123241-E-2-A	08/28/17 09:44 PM Unknown
128	i1082817a	480-123241-E-1-A	08/28/17 09:48 PM Unknown
129	i1082817a	blank	08/28/17 09:51 PM Unknown
130	i1082817a	CCVL-4209929	08/28/17 09:55 PM QC
131	i1082817a	CCV-4198708	08/28/17 09:59 PM QC
132	i1082817a	CCB-4204839	08/28/17 10:02 PM QC

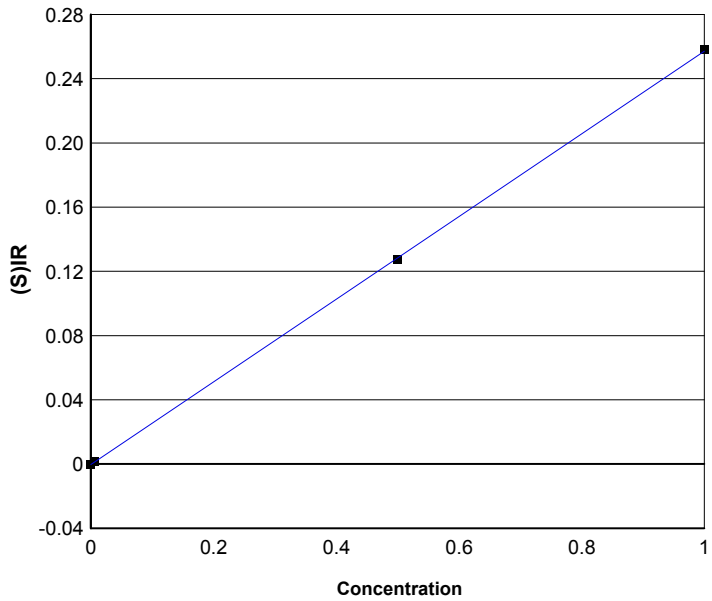
i1082817a

Author: jrk

Published: 8/29/2017 9:35:40AM

Instrument Name: iCAP1 Serial Number: 20094603

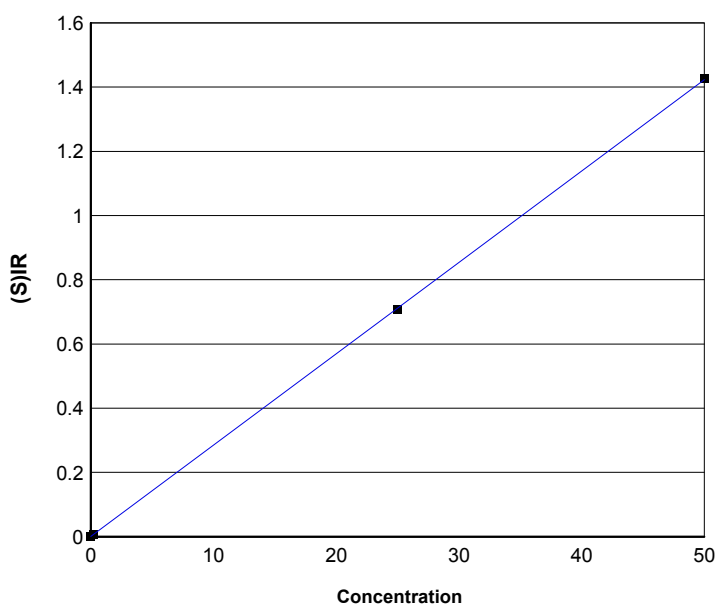
Method Name: ICAP1- 1st Qrt 2017 (304)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.00027547
A1 (Gain):	0.25733
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

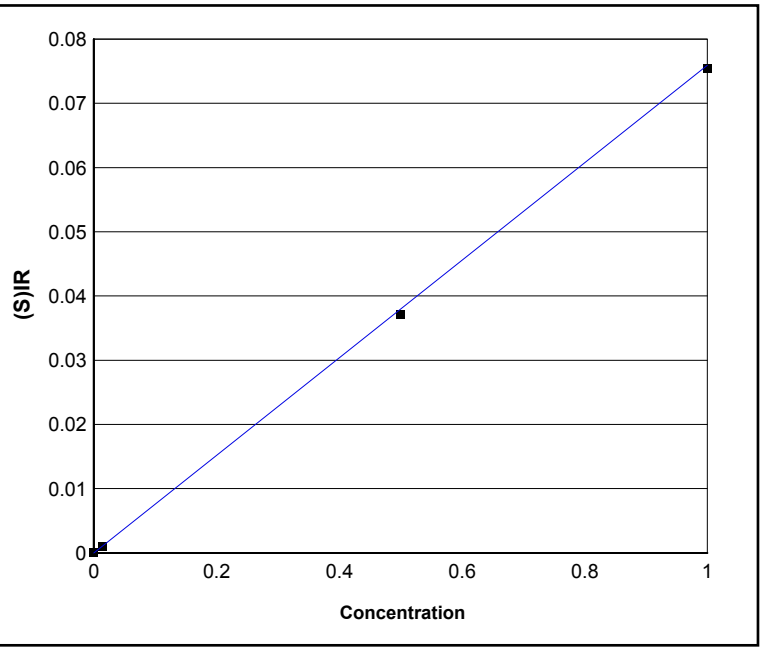
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002606	-0.0000002606	0.00000	-0.00027554	0.000092111	1
IC-4209929	0.0060000	0.0062912	0.00029119	4.8531	0.0013433	0.000027024	1
IC-4207542	0.50000	0.49519	-0.0048078	-0.96156	0.12708	0.00012949	1
IC-4207541	1.0000	1.0045	0.0045165	0.45165	0.25808	0.00080160	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00093274
A1 (Gain):	0.028448
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

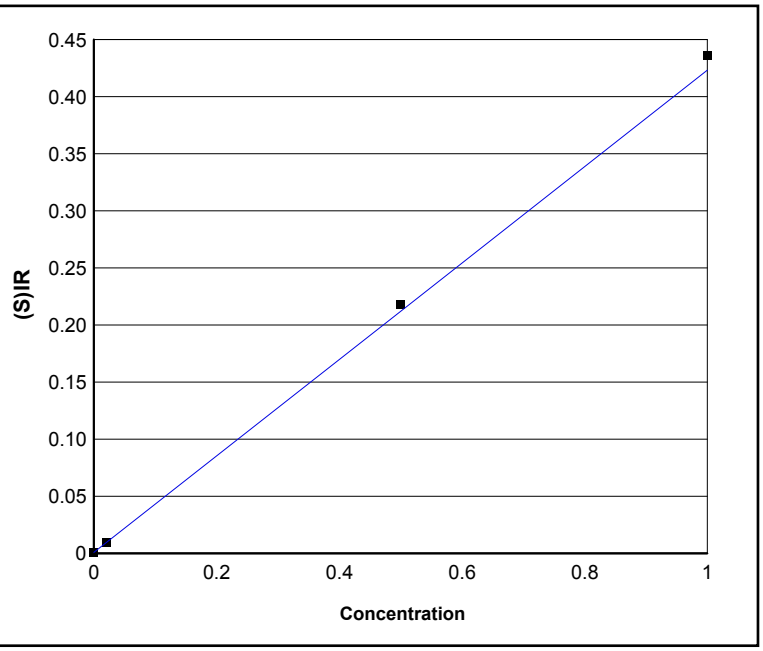
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.000014871	0.000014871	0.00000	0.00093316	0.00030065	1
IC-4209929	0.20000	0.18558	-0.014421	-7.2105	0.0062145	0.0011043	1
IC-4207542	25.000	24.873	-0.12703	-0.50812	0.70868	0.0012456	1
IC-4207541	50.000	50.141	0.14145	0.28291	1.4277	0.00074066	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.000010151
A1 (Gain):	0.075918
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

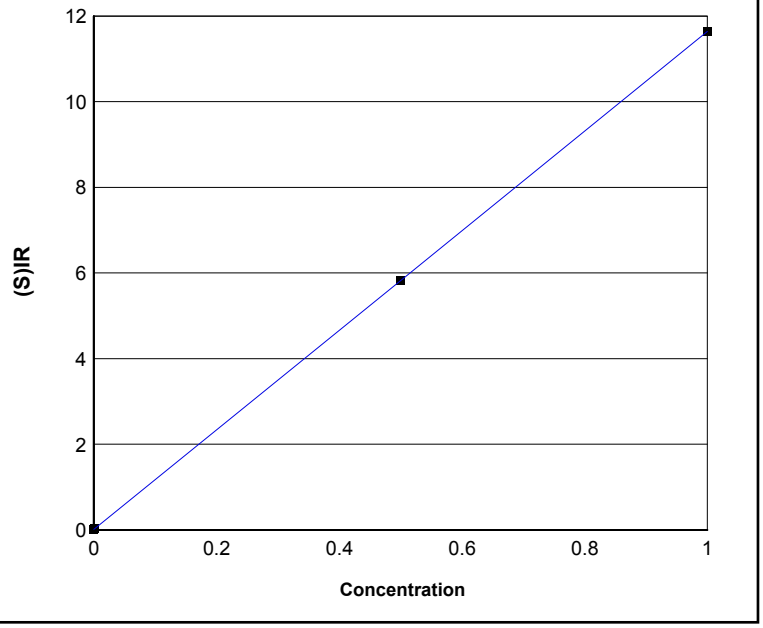
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000011615	0.0000011615	0.00000	0.000010239	0.0000000186	1
IC-4209929	0.015000	0.013909	-0.0010905	-7.2703	0.0010623	0.00018294	1
IC-4207542	0.50000	0.49417	-0.0058288	-1.1658	0.037052	0.00034355	1
IC-4207541	1.0000	1.0069	0.0069295	0.69295	0.075504	0.00030700	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00080754
A1 (Gain):	0.42239
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

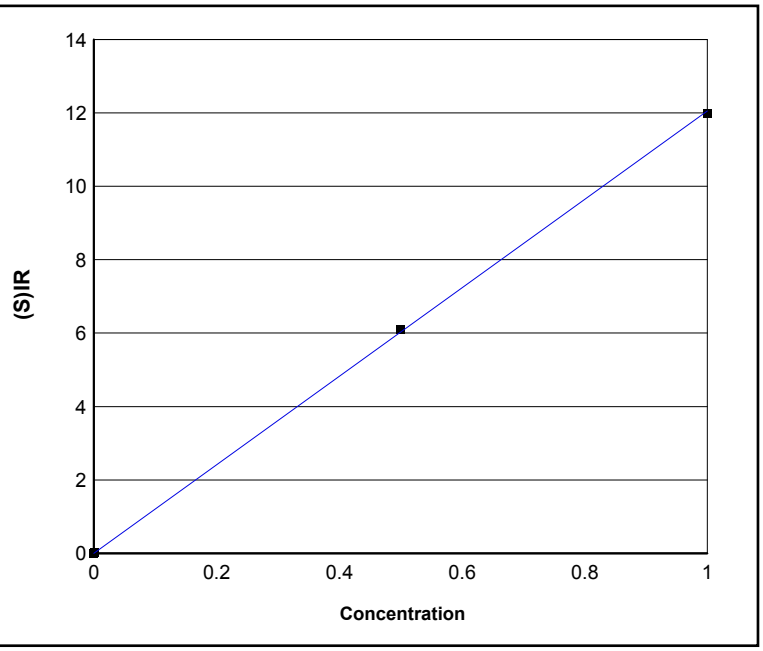
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000004986	-0.0000004986	0.00000	0.00080733	0.000094165	1
IC-4209929	0.020000	0.020521	0.00052134	2.6067	0.0096059	0.000035351	1
IC-4207542	0.50000	0.49938	-0.00062156	-0.12431	0.21826	0.00035417	1
IC-4207541	1.0000	1.0001	0.00010802	0.010802	0.43628	0.0011862	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.011836
A1 (Gain):	11.631
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

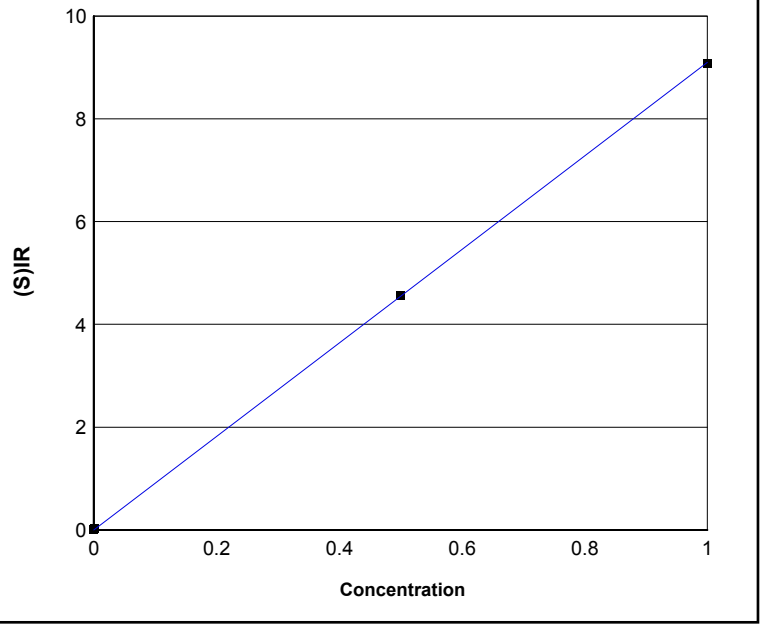
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002297	-0.0000002297	0.00000	0.011833	0.00025076	1
IC-4209929	0.0020000	0.0022305	0.00023054	11.527	0.037779	0.00051538	1
IC-4207542	0.50000	0.49981	-0.00019381	-0.038763	5.8250	0.0053427	1
IC-4207541	1.0000	0.99996	-0.000036721	-0.0036721	11.642	0.026330	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0025250
A1 (Gain):	12.049
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

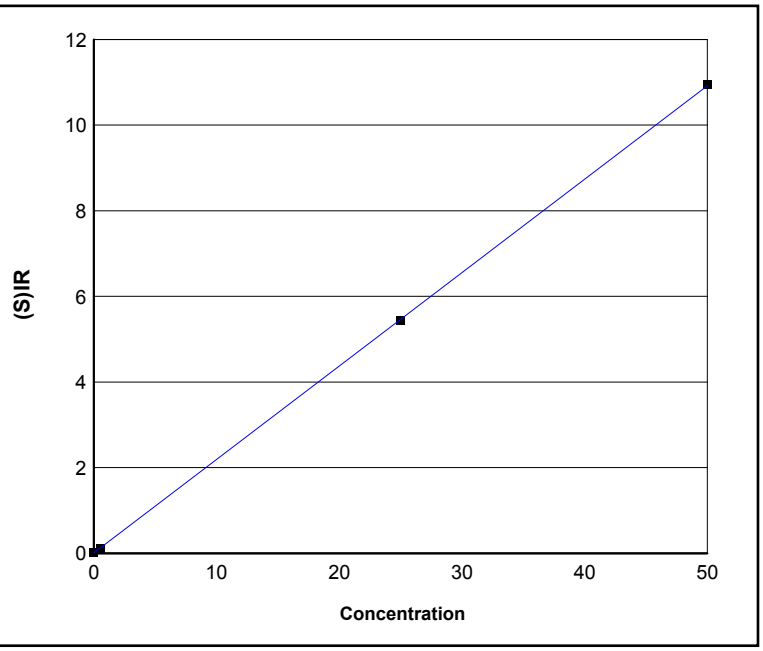
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001323	-0.0000001323	0.00000	0.0025234	0.00014749	1
IC-4209929	0.0020000	0.0021229	0.00012294	6.1472	0.028104	0.00018597	1
IC-4207542	0.50000	0.50481	0.0048078	0.96156	6.0849	0.0062300	1
IC-4207541	1.0000	0.99507	-0.0049307	-0.49307	11.992	0.030290	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00043030
A1 (Gain):	9.0963
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

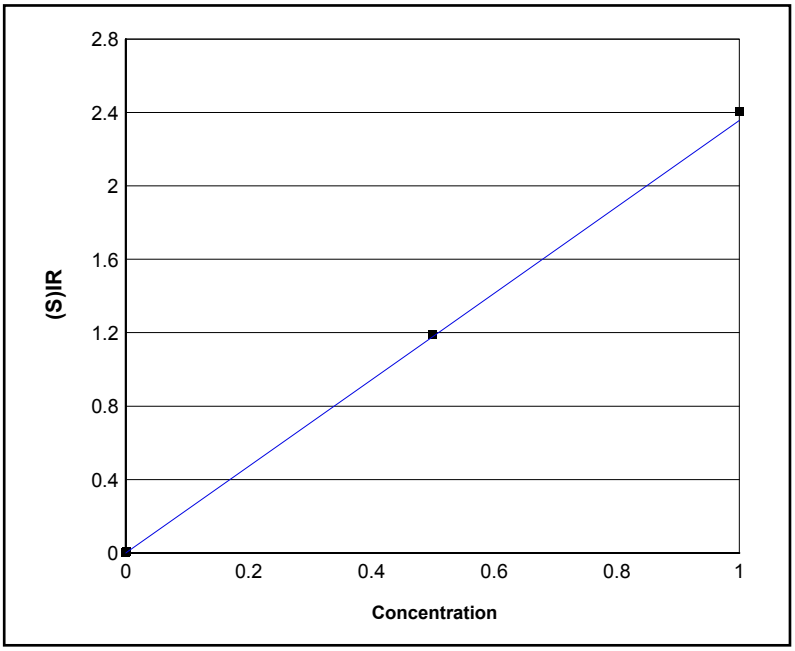
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000186	-0.0000000186	0.00000	0.00043013	0.00020970	1
IC-4209929	0.0020000	0.0020154	0.000015425	0.77126	0.018727	0.00015447	1
IC-4207542	0.50000	0.50162	0.0016233	0.32466	4.5597	0.016070	1
IC-4207541	1.0000	0.99836	-0.0016387	-0.16387	9.0745	0.033782	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.010518
A1 (Gain):	0.21825
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

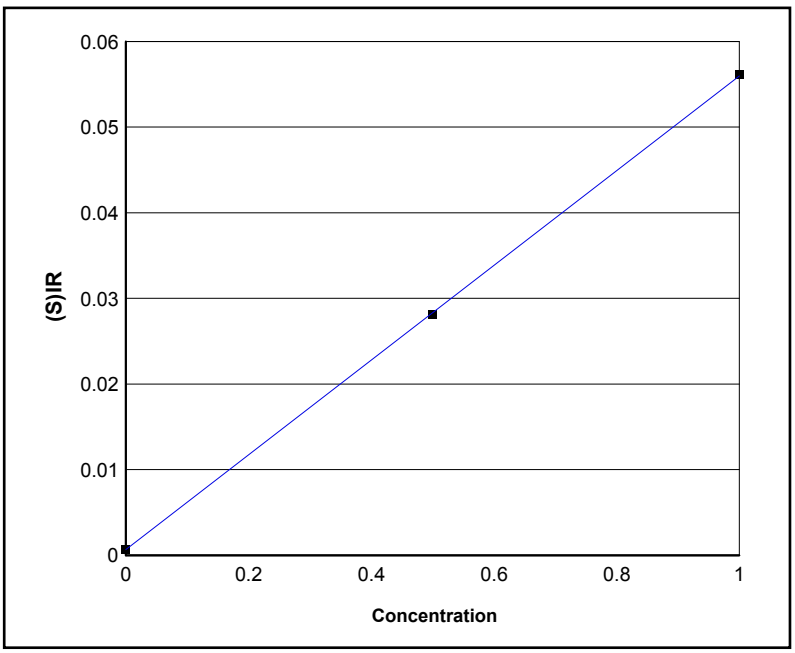
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000044412	-0.0000044412	0.00000	0.010517	0.00047115	1
IC-4209929	0.50000	0.50547	0.0054718	1.0944	0.12084	0.0016558	1
IC-4207542	25.000	24.902	-0.097584	-0.39034	5.4454	0.0080818	1
IC-4207541	50.000	50.092	0.092112	0.18422	10.943	0.019668	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00015992
A1 (Gain):	2.3562
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

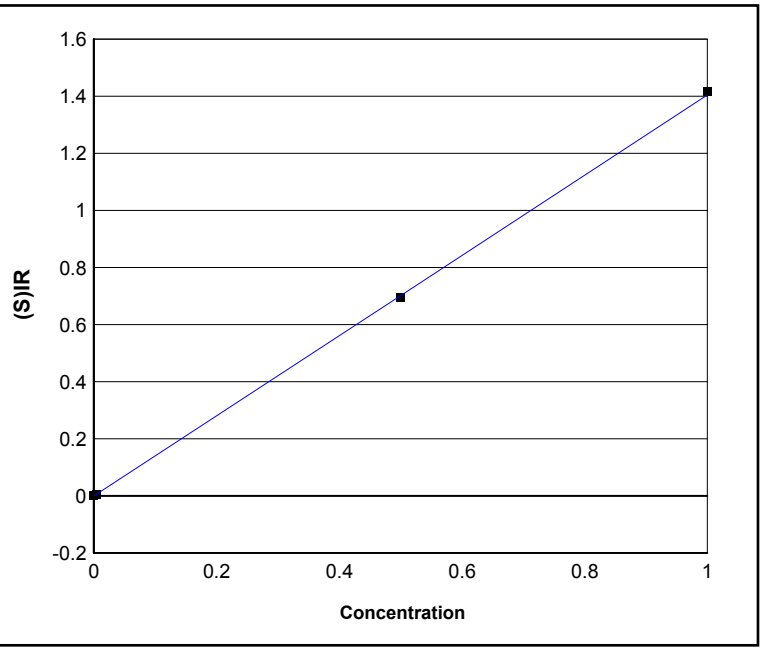
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001562	-0.0000001562	0.00000	0.00015955	0.0000093637	1
IC-4209929	0.0020000	0.0021624	0.00016238	8.1188	0.0058777	0.000031974	1
IC-4207542	0.50000	0.49711	-0.0028868	-0.57736	1.1924	0.00079718	1
IC-4207541	1.0000	1.0027	0.0027062	0.27062	2.4046	0.00019669	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.0006793
A1 (Gain):	0.05530
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

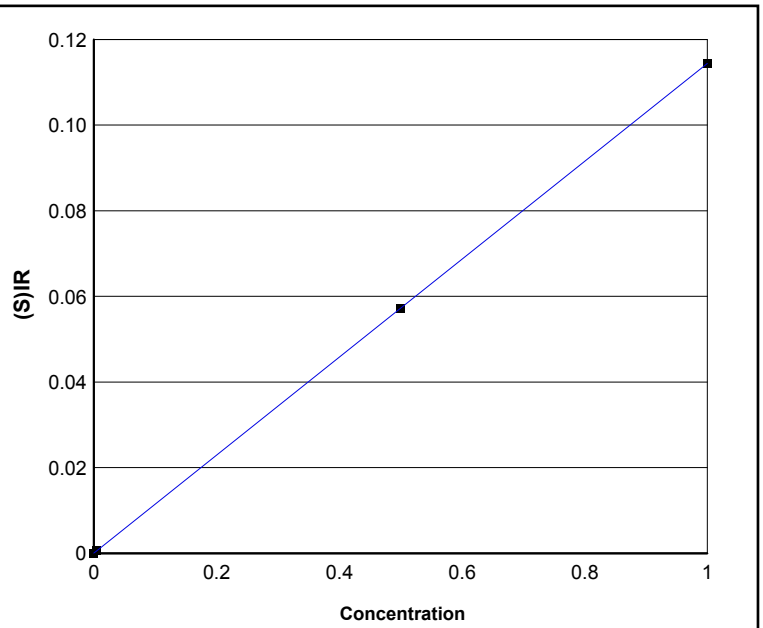
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000	0.000001878	0.000001878	0.0000	0.0006794	0.0007402	1
IC-4207542	0.5000	0.4962	-0.003756	-0.7513	0.02812	0.001263	1
IC-4207541	1.000	1.004	0.003756	0.3756	0.05619	0.0005627	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00011722
A1 (Gain):	1.4042
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

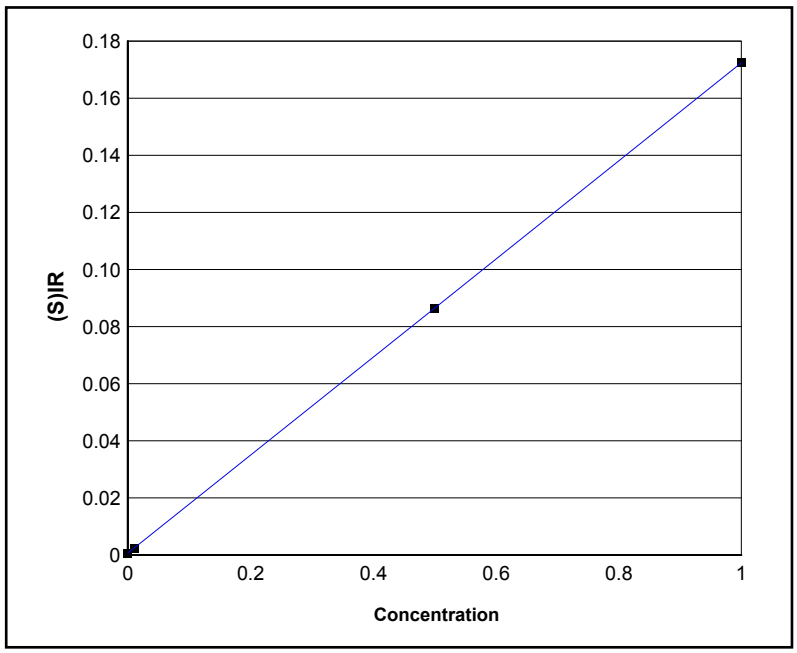
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000003614	0.0000003614	0.00000	-0.00011671	0.000079559	1
IC-4209929	0.0040000	0.0036625	-0.00033751	-8.4378	0.0050317	0.00020908	1
IC-4207542	0.50000	0.49370	-0.0062989	-1.2598	0.69396	0.00075651	1
IC-4207541	1.0000	1.0066	0.0066364	0.66364	1.4150	0.0014054	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000051909
A1 (Gain):	0.11439
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

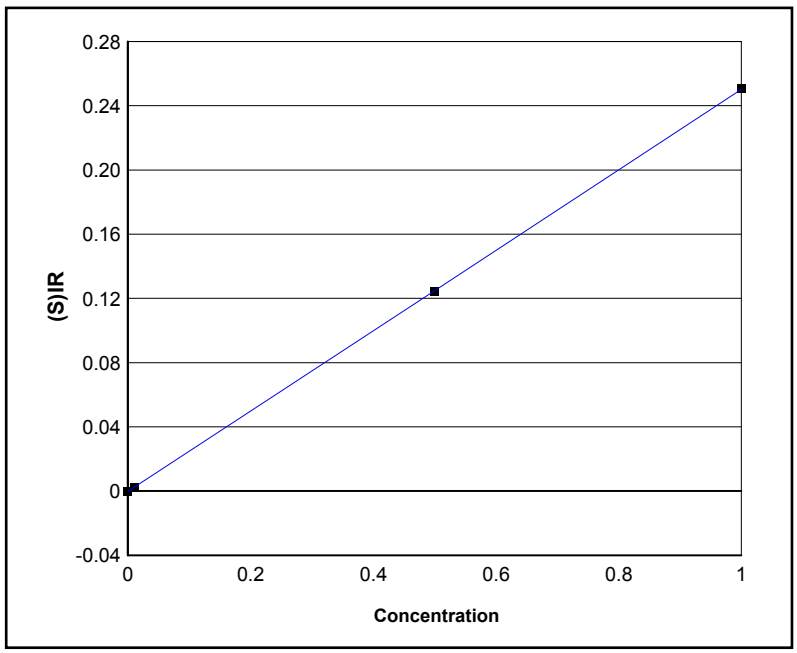
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000004056	-0.0000004056	0.00000	0.000051862	0.000046715	1
IC-4209929	0.0040000	0.0044109	0.00041091	10.273	0.00055647	0.000035718	1
IC-4207542	0.50000	0.49908	-0.00091814	-0.18363	0.057128	0.00025092	1
IC-4207541	1.0000	1.0005	0.00050714	0.050714	0.11447	0.00021022	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00061702
A1 (Gain):	0.17176
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

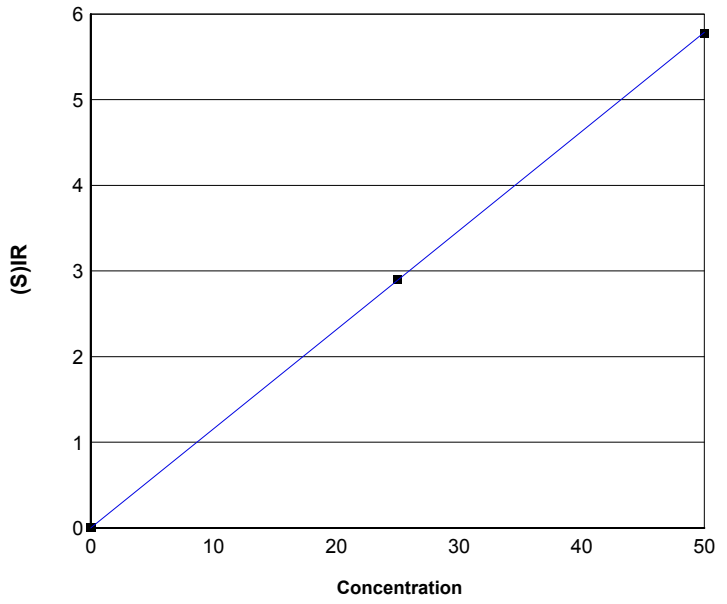
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002459	-0.0000002459	0.00000	0.00061698	0.000082913	1
IC-4209929	0.010000	0.010260	0.00026032	2.6032	0.0023794	0.00015690	1
IC-4207542	0.50000	0.49882	-0.0011772	-0.23543	0.086297	0.00027075	1
IC-4207541	1.0000	1.0009	0.00091684	0.091684	0.17254	0.0000006083	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00031846
A1 (Gain):	0.25049
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

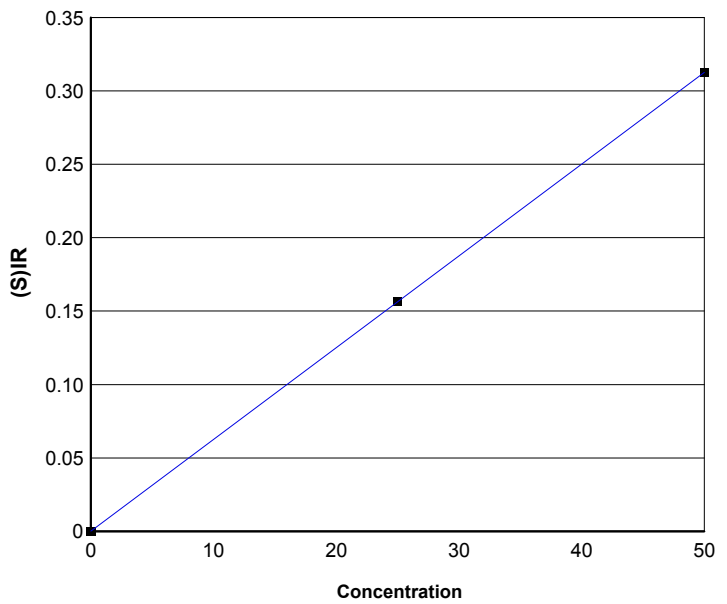
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002711	-0.0000002711	0.00000	-0.00031853	0.00011954	1
IC-4209929	0.010000	0.010300	0.00030000	3.0000	0.0022626	0.000036141	1
IC-4207542	0.50000	0.49741	-0.0025872	-0.51744	0.12433	0.00013781	1
IC-4207541	1.0000	1.0023	0.0022872	0.22872	0.25085	0.00069707	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00028830
A1 (Gain):	0.11574
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

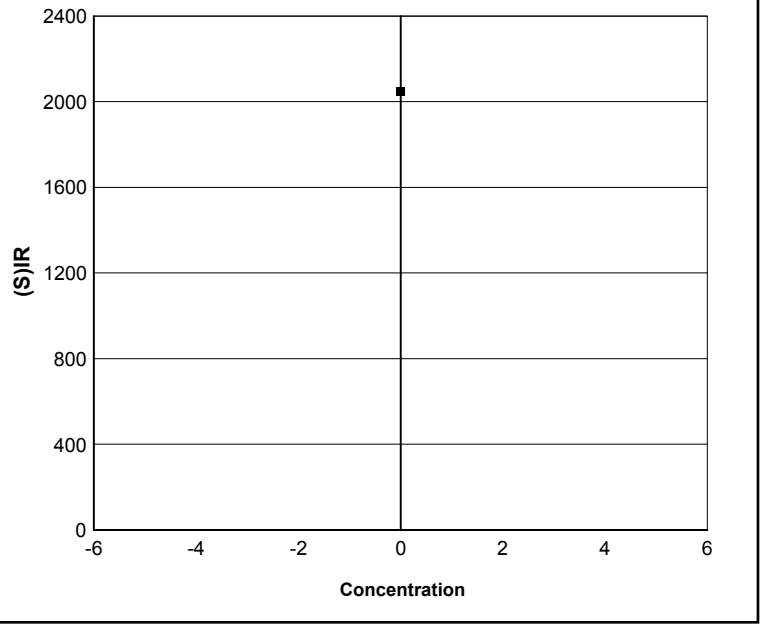
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000447	0.0000000447	0.00000	0.00028831	0.000018955	1
IC-4209929	0.050000	0.049852	-0.00014787	-0.29573	0.0060581	0.00028781	1
IC-4207542	25.000	25.103	0.10306	0.41223	2.9057	0.0044162	1
IC-4207541	50.000	49.897	-0.10291	-0.20582	5.7753	0.018540	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99985
A0 (Offset):	0.000087684
A1 (Gain):	0.0062494
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

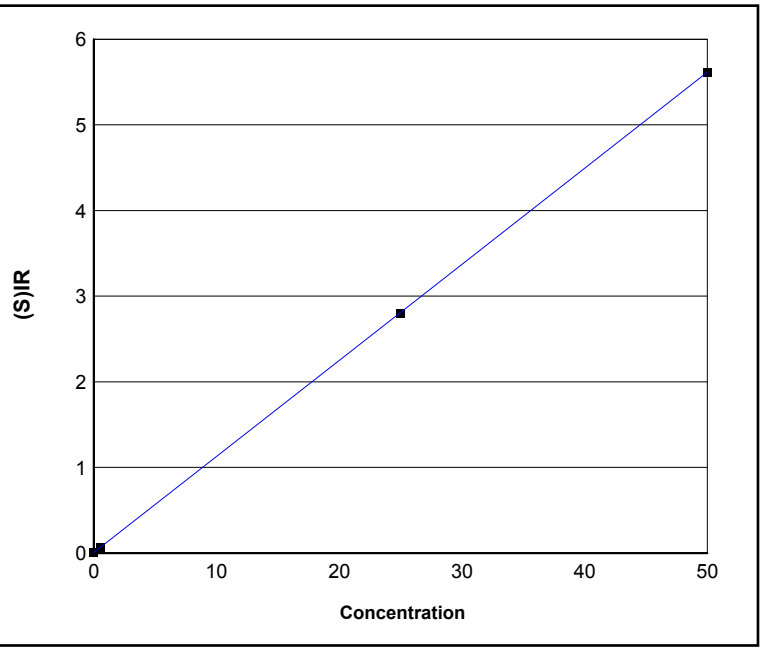
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.000033065	0.000033065	0.00000	0.000087891	0.00013889	1
IC-4209929	0.050000	0.016864	-0.033136	-66.272	0.00019307	0.00043219	1
IC-4207542	25.000	25.038	0.037508	0.15003	0.15656	0.00054739	1
IC-4207541	50.000	49.996	-0.0043718	-0.0087436	0.31253	0.0011319	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:13:30PM
Date of Fit:	8/28/2017 2:13:30PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

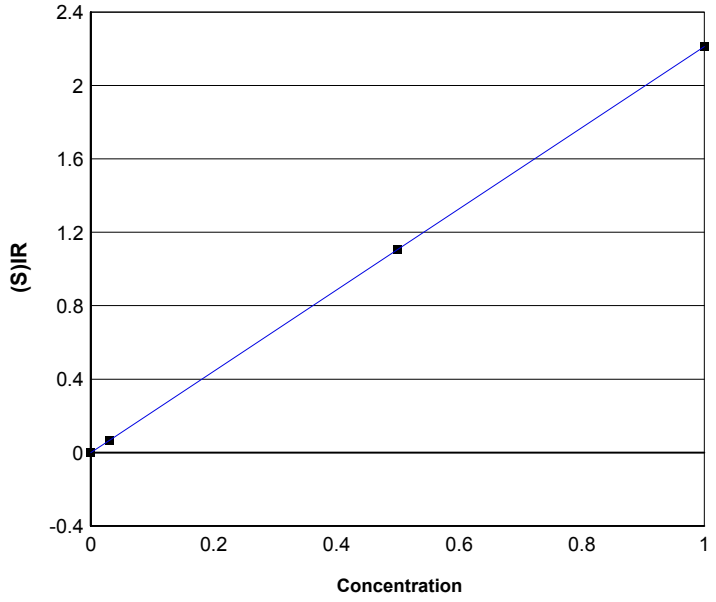
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	2,046	2.024	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0059332
A1 (Gain):	0.11219
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

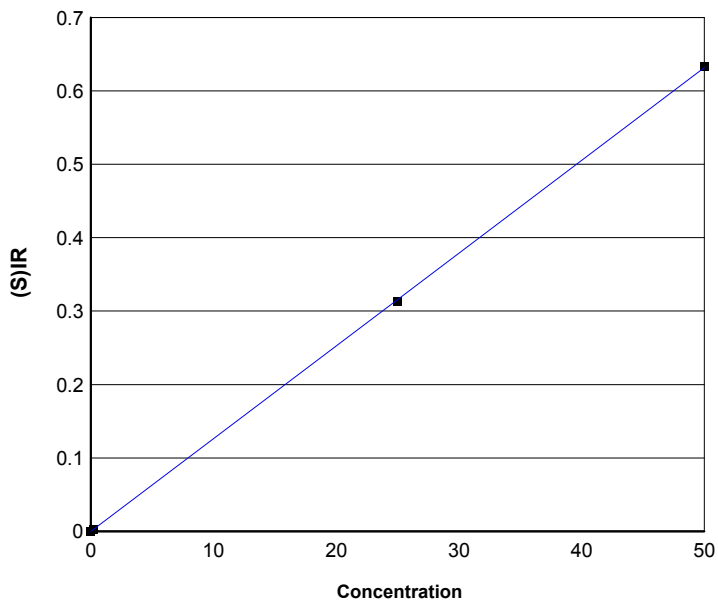
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	-0.000047509	-0.000047509	0.00000	0.0059278	0.0031407	1
IC-4209929	0.50000	0.54869	0.048686	9.7371	0.067492	0.0014112	1
IC-4207542	25.000	24.931	-0.069010	-0.27604	2.8030	0.0020419	1
IC-4207541	50.000	50.020	0.020325	0.040650	5.6179	0.00070843	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00051554
A1 (Gain):	2.2127
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

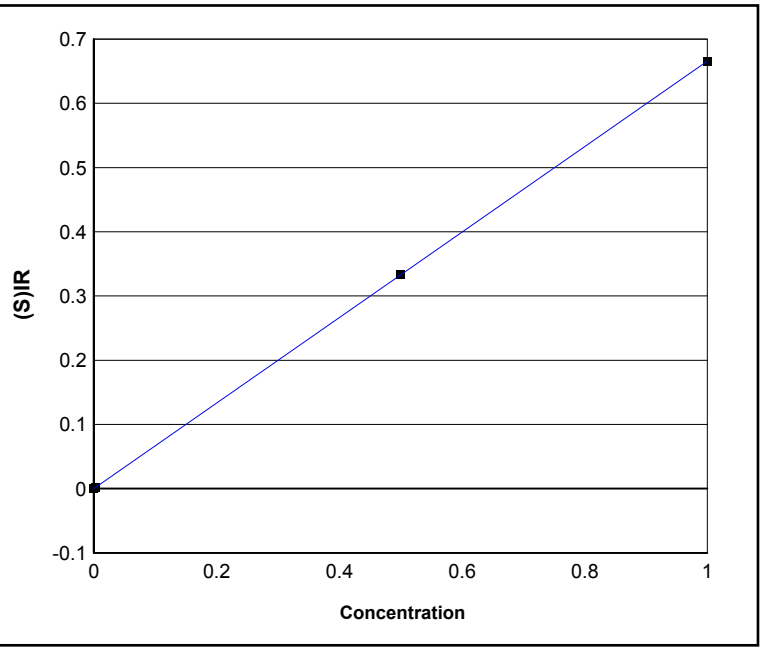
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000011718	0.0000011718	0.00000	-0.00051294	0.0025764	1
IC-4209929	0.030000	0.028796	-0.0012038	-4.0125	0.063202	0.0028062	1
IC-4207542	0.50000	0.49986	-0.00013970	-0.027941	1.1055	0.0027795	1
IC-4207541	1.0000	1.0013	0.0013435	0.13435	2.2151	0.0042843	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000045012
A1 (Gain):	0.012630
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

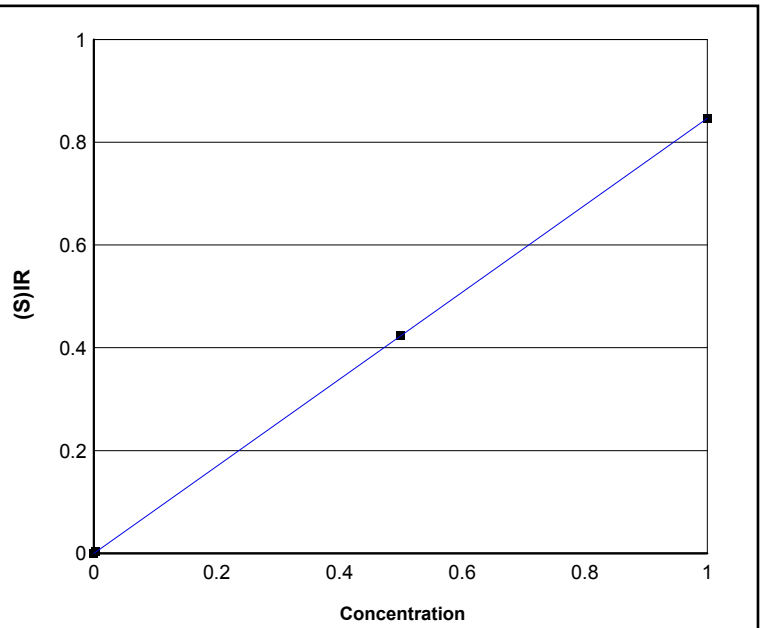
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000018281	0.0000018281	0.00000	0.000045035	0.000010237	1
IC-4209929	0.20000	0.19878	-0.0012201	-0.61005	0.0025526	0.000017815	1
IC-4207542	25.000	24.847	-0.15322	-0.61288	0.31368	0.00027085	1
IC-4207541	50.000	50.154	0.15444	0.30888	0.63313	0.00042597	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0000000091
A1 (Gain):	0.66560
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

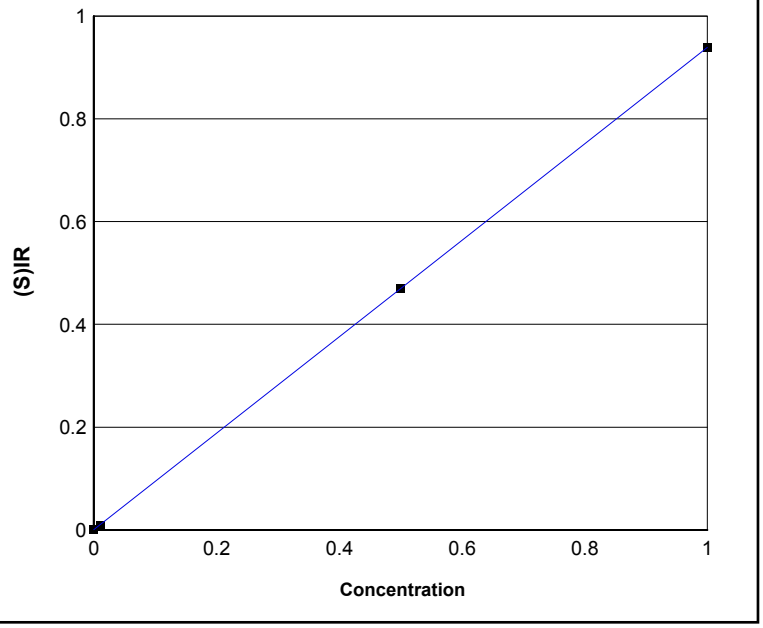
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001376	-0.0000001376	0.00000	-0.0000000825	0.00013148	1
IC-4209929	0.0030000	0.0031326	0.00013260	4.4201	0.0020867	0.000043710	1
IC-4207542	0.50000	0.50179	0.0017910	0.35821	0.33436	0.0030545	1
IC-4207541	1.0000	0.99808	-0.0019236	-0.19236	0.66505	0.0023806	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00012583
A1 (Gain):	0.84645
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

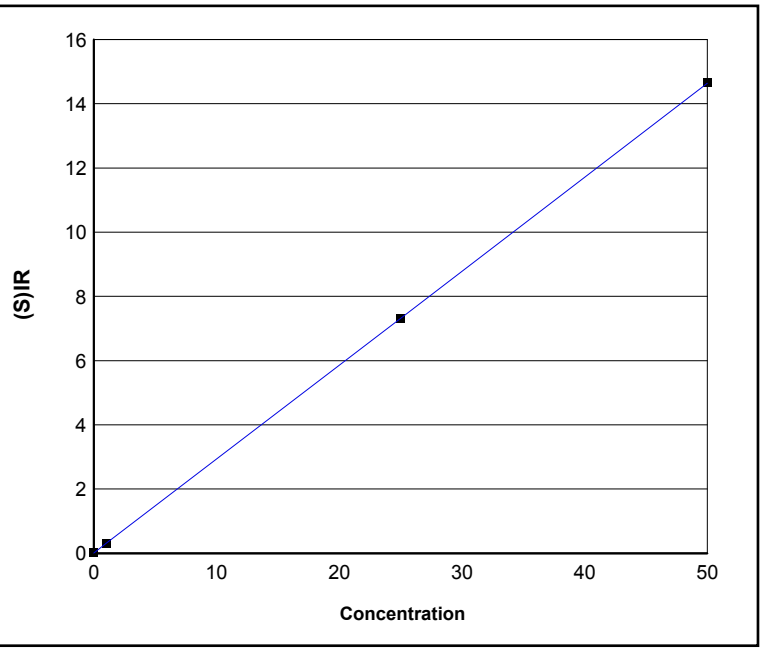
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001666	-0.0000001666	0.00000	0.00012569	0.0000017129	1
IC-4209929	0.0030000	0.0031655	0.00016550	5.5166	0.0028069	0.000058452	1
IC-4207542	0.50000	0.50053	0.00053271	0.10654	0.42407	0.00067480	1
IC-4207541	1.0000	0.99930	-0.00069821	-0.069821	0.84652	0.00087030	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00040163
A1 (Gain):	0.93865
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

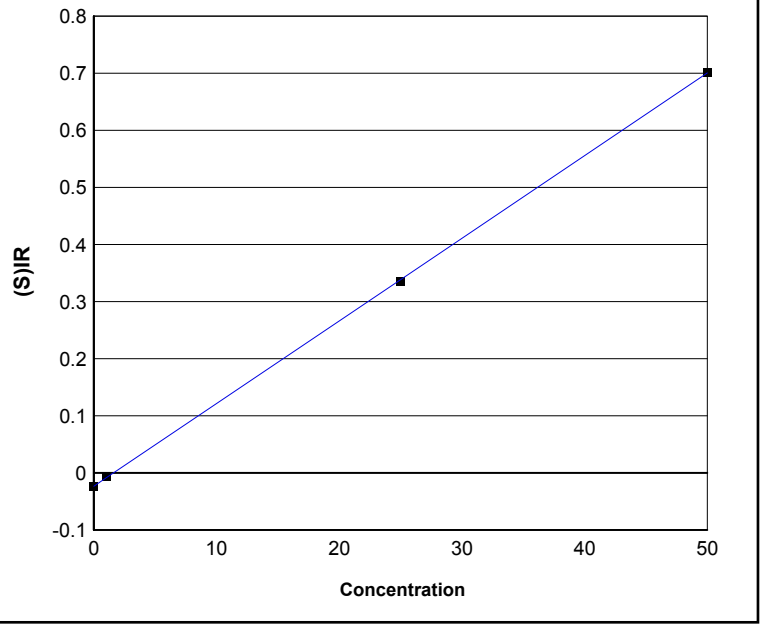
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000338	0.0000000338	0.00000	0.00040166	0.00025710	1
IC-4209929	0.010000	0.0099638	-0.000036240	-0.36240	0.0097537	0.000022514	1
IC-4207542	0.50000	0.50021	0.00020568	0.041137	0.46973	0.0015120	1
IC-4207541	1.0000	0.99983	-0.00016943	-0.016943	0.93851	0.00038636	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.011855
A1 (Gain):	0.29245
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

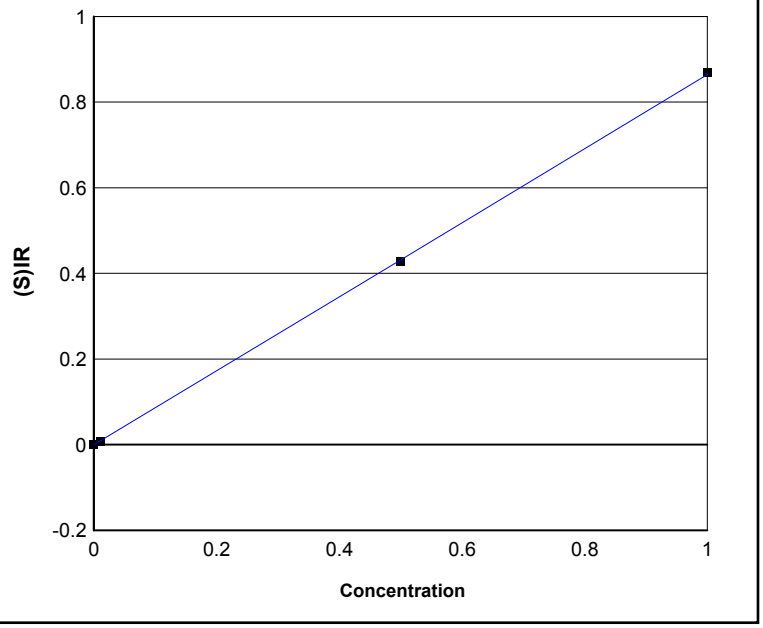
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000096747	-0.0000096747	0.00000	0.011852	0.0013552	1
IC-4209929	1.0000	1.0114	0.011374	1.1374	0.30763	0.00048807	1
IC-4207542	25.000	24.926	-0.073595	-0.29438	7.3015	0.010446	1
IC-4207541	50.000	50.062	0.062220	0.12444	14.652	0.052700	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	-0.023481
A1 (Gain):	0.014476
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

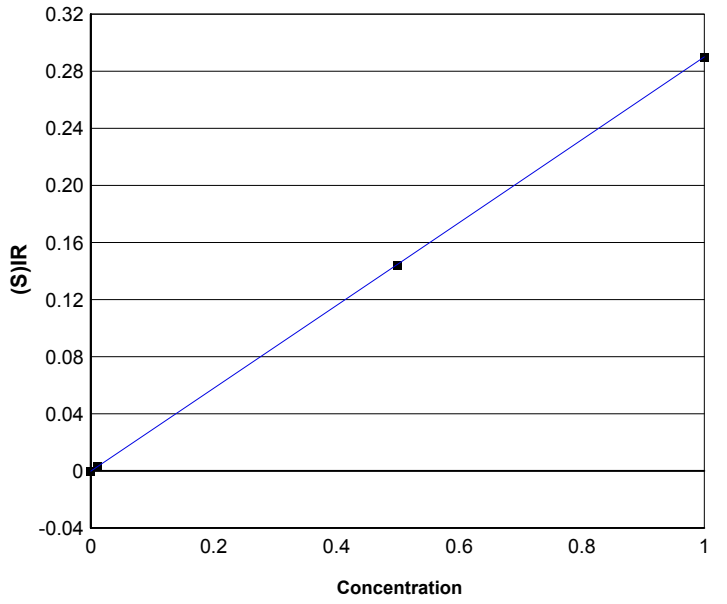
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	-0.00012773	-0.00012773	0.00000	-0.023483	0.0022314	1
IC-4209929	1.0000	1.1342	0.13419	13.419	-0.0070631	0.0020782	1
IC-4207542	25.000	24.811	-0.18926	-0.75702	0.33567	0.00033489	1
IC-4207541	50.000	50.055	0.055061	0.11012	0.70109	0.0026289	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00047642
A1 (Gain):	0.86453
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

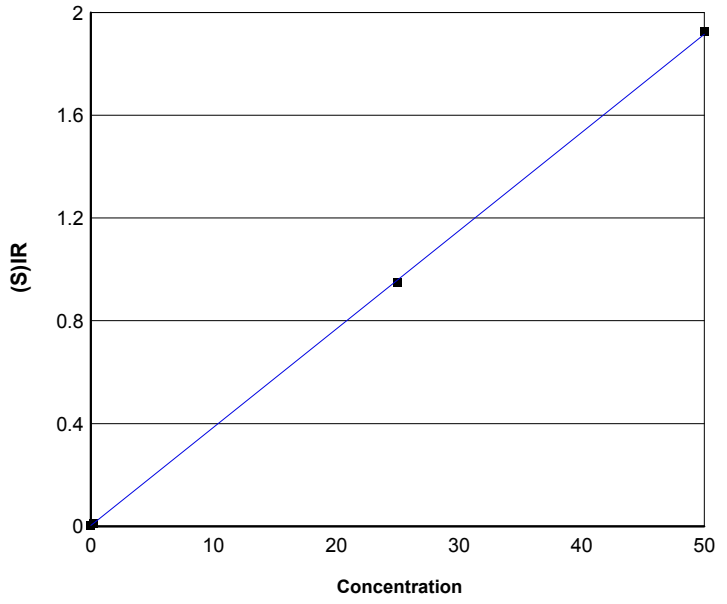
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000004754	0.0000004754	0.00000	-0.00047601	0.000074721	1
IC-4209929	0.010000	0.0095781	-0.00042195	-4.2195	0.0078083	0.000036578	1
IC-4207542	0.50000	0.49424	-0.0057643	-1.1529	0.42702	0.00084854	1
IC-4207541	1.0000	1.0062	0.0061863	0.61863	0.86983	0.00037243	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00020130
A1 (Gain):	0.29013
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

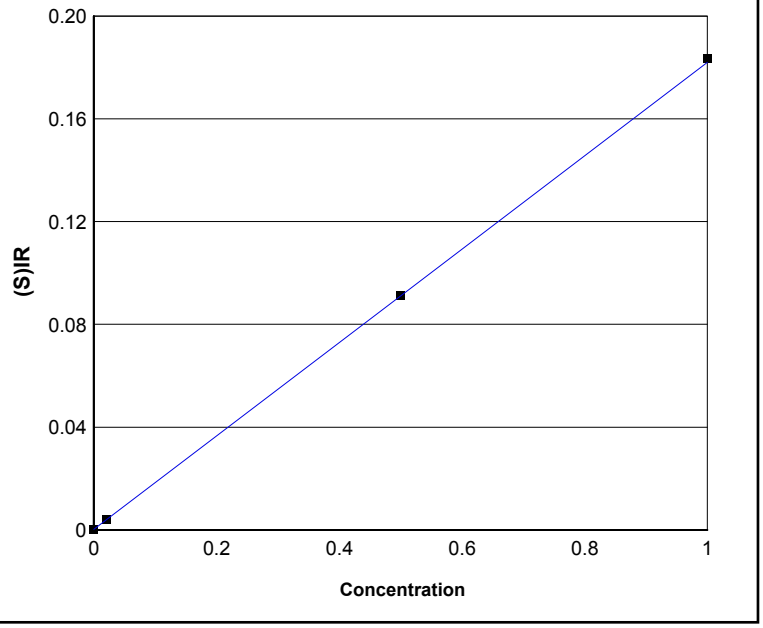
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001206	-0.0000001206	0.00000	-0.00020134	0.00022941	1
IC-4209929	0.010000	0.010147	0.00014655	1.4655	0.0027316	0.00022948	1
IC-4207542	0.50000	0.49755	-0.0024531	-0.49062	0.14380	0.00026716	1
IC-4207541	1.0000	1.0023	0.0023068	0.23068	0.28990	0.00096218	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.003144
A1 (Gain):	0.03826
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

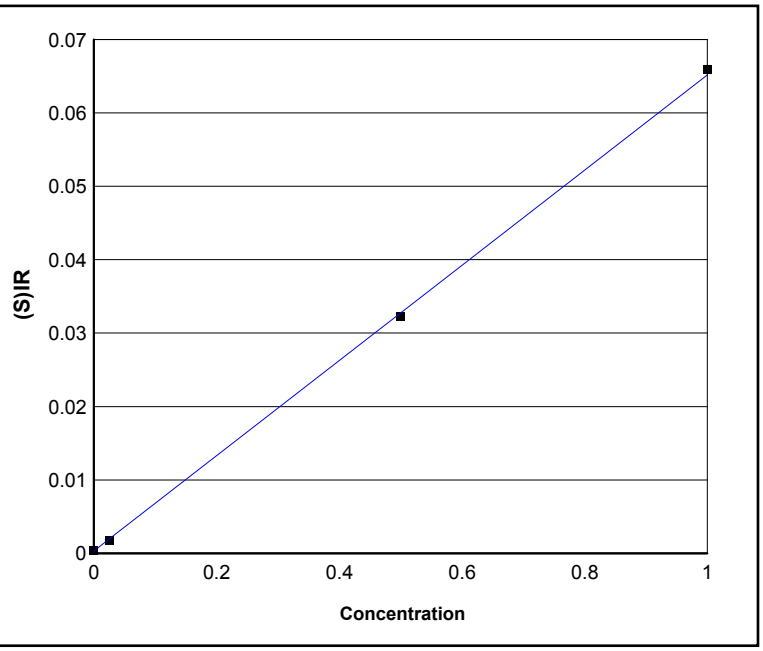
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000	0.000005465	0.000005465	0.0000	0.003145	0.0003582	1
IC-4209929	0.2000	0.1955	-0.004481	-2.240	0.01062	0.0001008	1
IC-4207542	25.00	24.75	-0.2507	-1.003	0.9500	0.001917	1
IC-4207541	50.00	50.26	0.2552	0.5104	1.926	0.0004614	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00016889
A1 (Gain):	0.18182
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

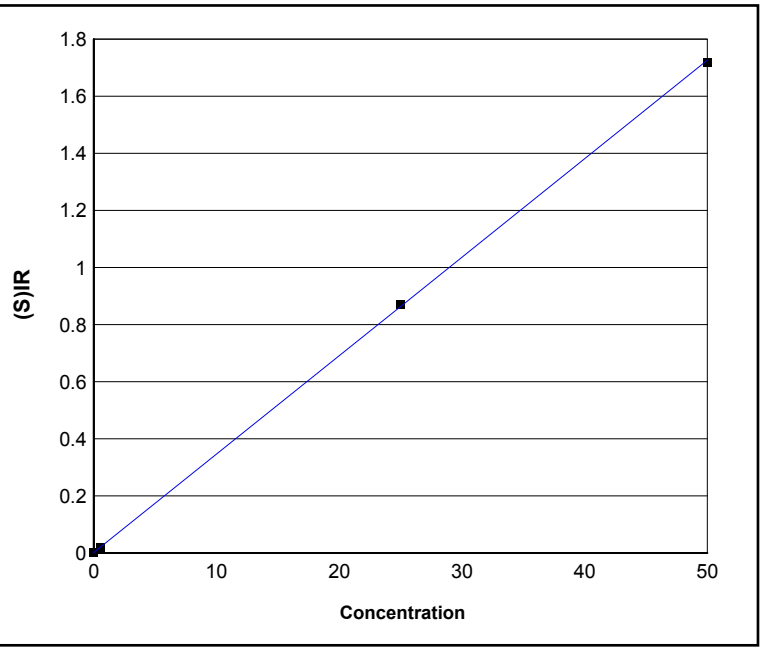
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000005335	-0.0000005335	0.00000	0.00016879	0.00017708	1
IC-4209929	0.020000	0.020584	0.00058440	2.9220	0.0039162	0.00030771	1
IC-4207542	0.50000	0.49804	-0.0019622	-0.39243	0.091307	0.00032200	1
IC-4207541	1.0000	1.0014	0.0013808	0.13808	0.18341	0.00088714	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99980
A0 (Offset):	0.00031714
A1 (Gain):	0.064860
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

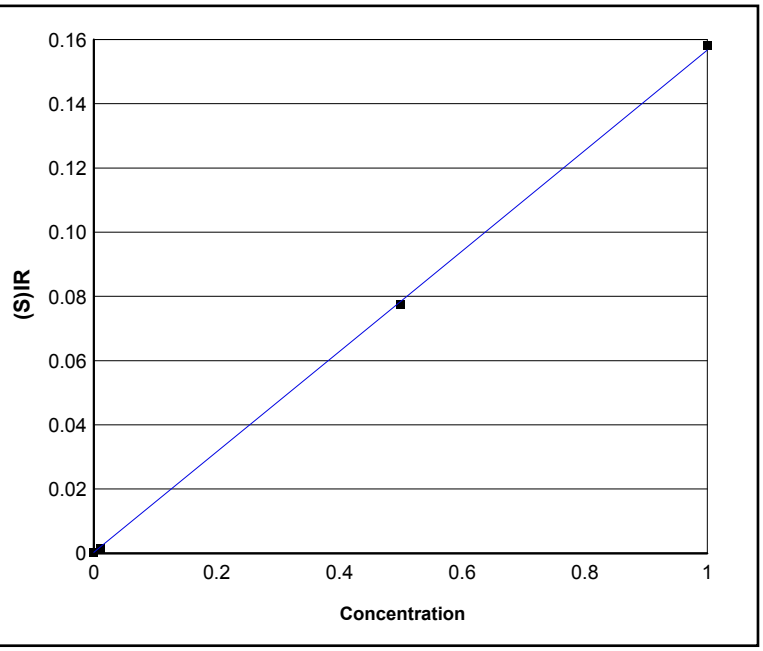
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000032262	0.0000032262	0.00000	0.00031735	0.000079067	1
IC-4209929	0.025000	0.021879	-0.0031214	-12.486	0.0017364	0.00034631	1
IC-4207542	0.50000	0.49269	-0.0073135	-1.4627	0.032300	0.000024648	1
IC-4207541	1.0000	1.0104	0.010433	1.0433	0.065909	0.00034697	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0014707
A1 (Gain):	0.034499
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

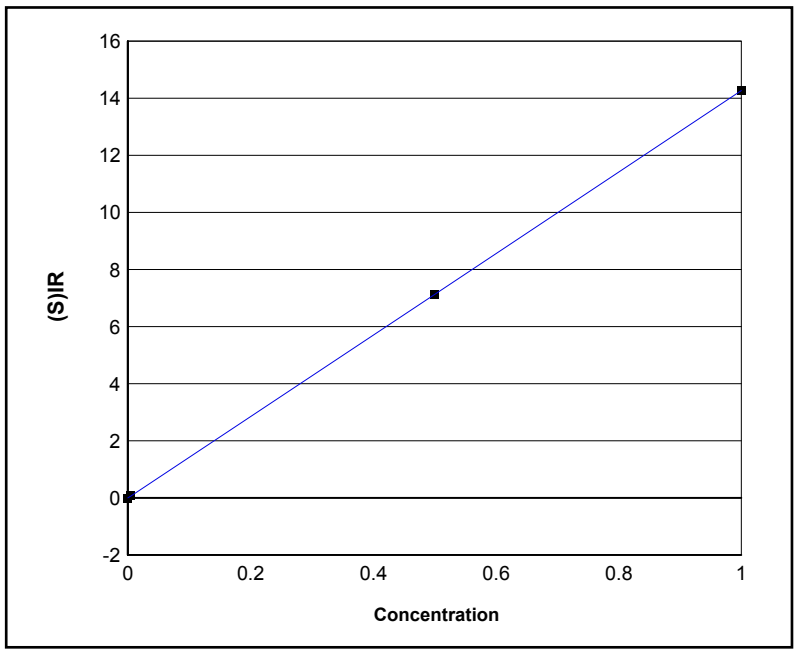
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000009743	-0.0000009743	0.00000	0.0014707	0.00023245	1
IC-4209929	0.50000	0.49869	-0.0013064	-0.26128	0.018675	0.00028107	1
IC-4207542	25.000	25.227	0.22677	0.90707	0.87178	0.0053439	1
IC-4207541	50.000	49.775	-0.22546	-0.45092	1.7187	0.00076445	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00026255
A1 (Gain):	0.15644
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

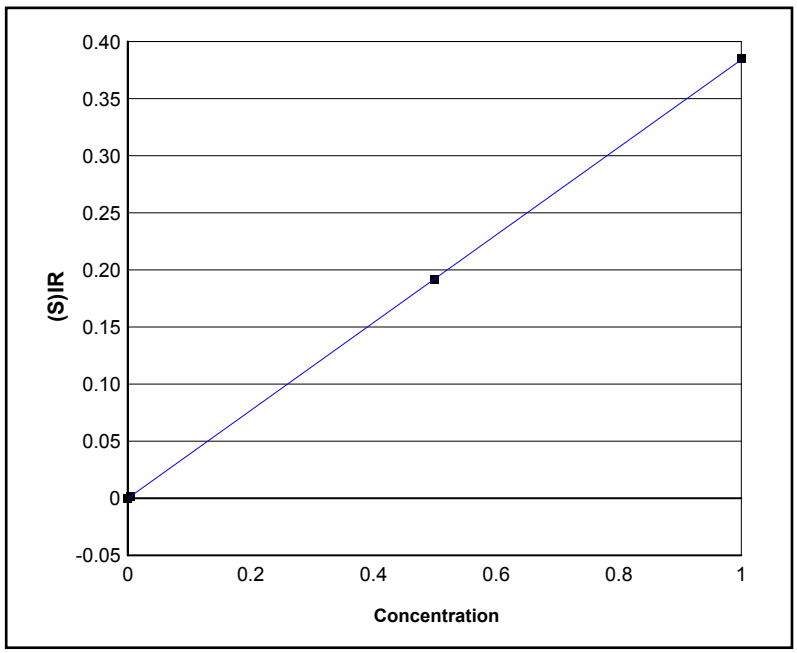
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000012571	0.0000012571	0.00000	0.00026275	0.00014345	1
IC-4209929	0.010000	0.0087952	-0.0012048	-12.048	0.0016387	0.00020381	1
IC-4207542	0.50000	0.49357	-0.0064336	-1.2867	0.077542	0.00016438	1
IC-4207541	1.0000	1.0076	0.0076375	0.76375	0.15803	0.00010817	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.0051152
A1 (Gain):	14.266
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

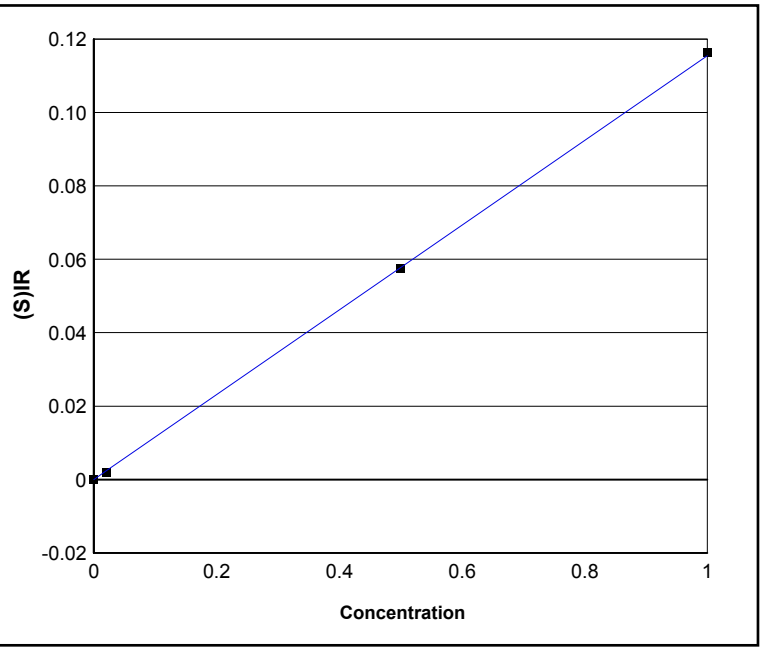
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000013	-0.0000000013	0.00000	-0.0051152	0.00036920	1
IC-4209929	0.0050000	0.0050004	0.0000004356	0.0087126	0.066223	0.000039060	1
IC-4207542	0.50000	0.50016	0.00016381	0.032762	7.1304	0.0094363	1
IC-4207541	1.0000	0.99984	-0.00016424	-0.016424	14.259	0.036287	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.000073438
A1 (Gain):	0.38425
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

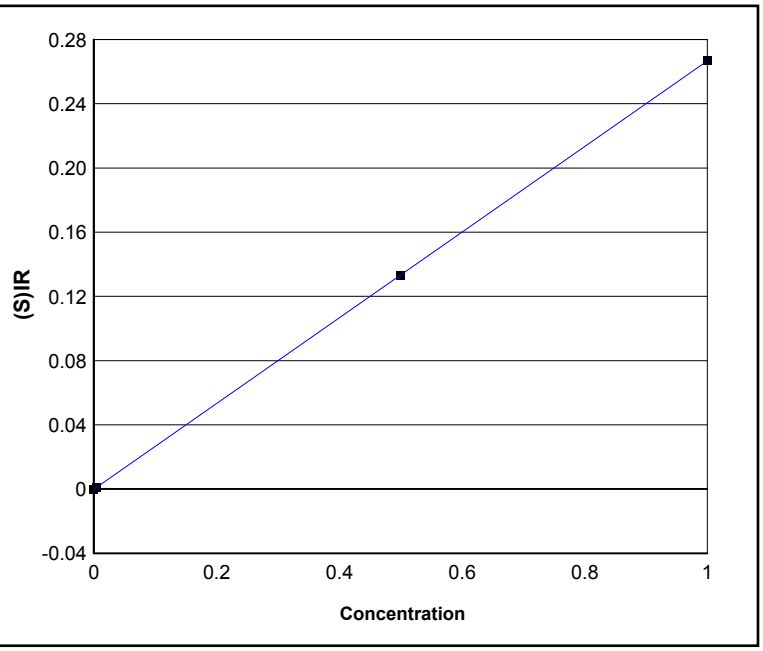
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000587	0.0000000587	0.00000	-0.000073416	0.000040901	1
IC-4209929	0.0050000	0.0049506	-0.000049398	-0.98797	0.0018308	0.000053263	1
IC-4207542	0.50000	0.49808	-0.0019166	-0.38333	0.19142	0.000062958	1
IC-4207541	1.0000	1.0020	0.0019661	0.19661	0.38513	0.00032710	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	-0.000016093
A1 (Gain):	0.11552
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

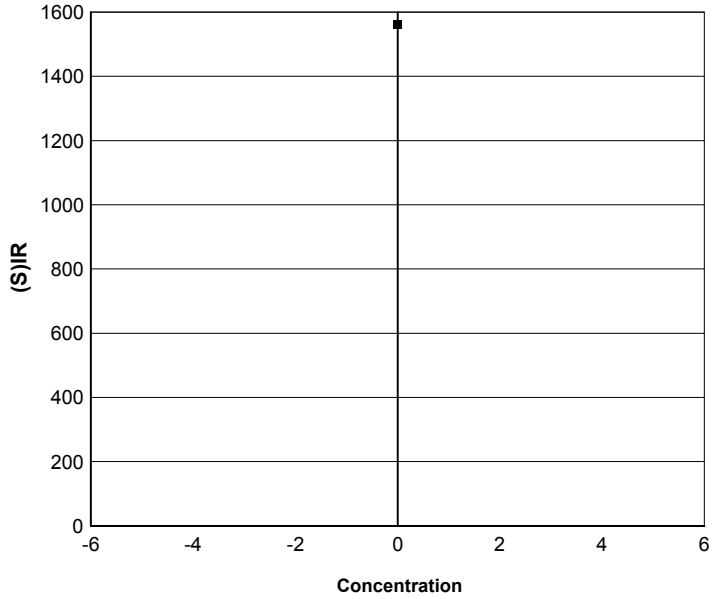
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000024949	0.0000024949	0.00000	-0.000015805	0.000062459	1
IC-4209929	0.020000	0.017504	-0.0024955	-12.478	0.0020070	0.000012955	1
IC-4207542	0.50000	0.49754	-0.0024588	-0.49177	0.057576	0.000017869	1
IC-4207541	1.0000	1.0050	0.0049504	0.49504	0.11631	0.000097973	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.000051213
A1 (Gain):	0.26681
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

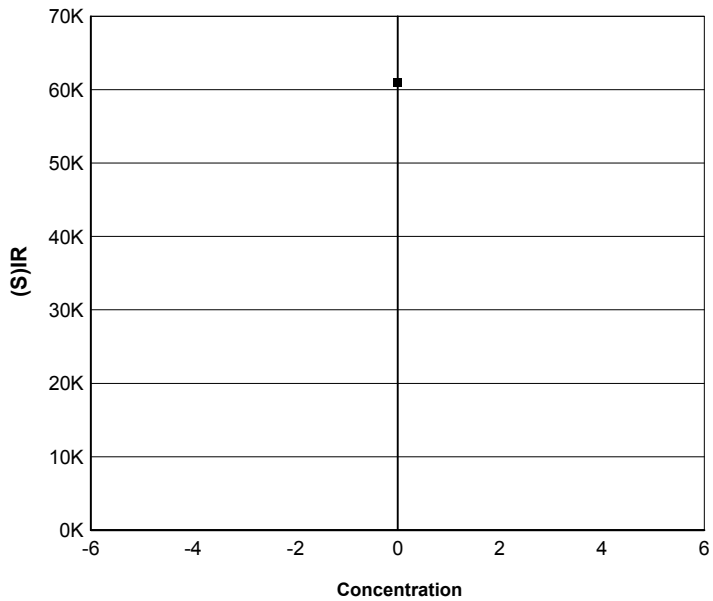
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001306	0.0000001306	0.00000	-0.000051178	0.000023748	1
IC-4209929	0.0050000	0.0048785	-0.00012147	-2.4295	0.0012463	0.000039576	1
IC-4207542	0.50000	0.49805	-0.0019499	-0.38997	0.13277	0.00023079	1
IC-4207541	1.0000	1.0021	0.0020710	0.20710	0.26719	0.00039873	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:13:30PM
Date of Fit:	8/28/2017 2:13:30PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

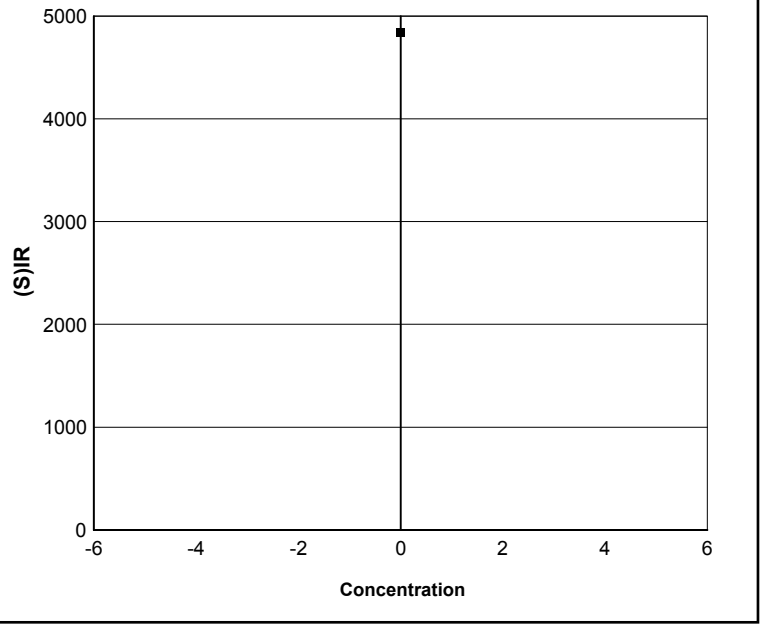
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	1,562	3.017	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:13:30PM
Date of Fit:	8/28/2017 2:13:30PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

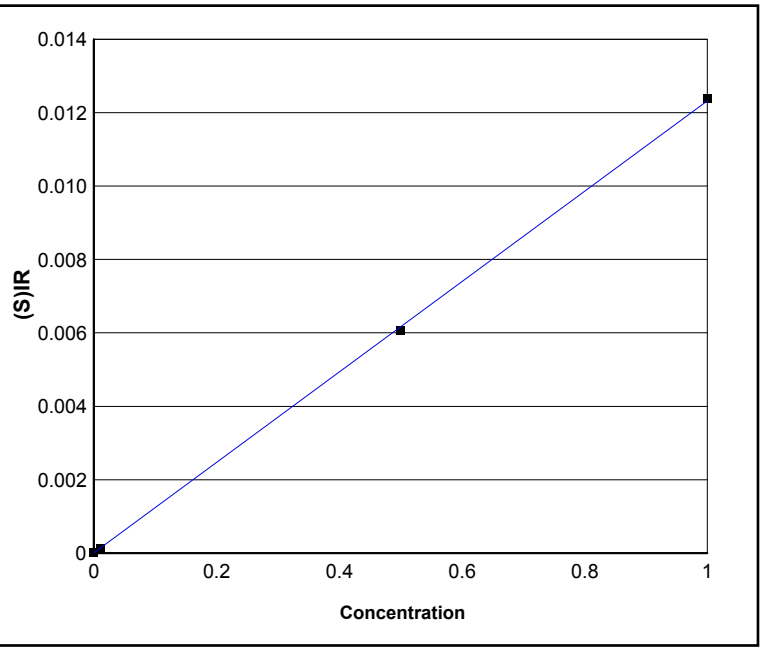
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	60,920	37.46	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:13:30PM
Date of Fit:	8/28/2017 2:13:30PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	4,840	6.075	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 2:24:04PM
Date of Fit:	8/28/2017 2:24:04PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0000074826
A1 (Gain):	0.012319
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000004060	-0.0000004060	0.00000	0.0000074776	0.000015559	1
IC-4209929	0.010000	0.010482	0.00048167	4.8167	0.00013655	0.000027944	1
IC-4207542	0.50000	0.49292	-0.0070849	-1.4170	0.0060743	0.000032183	1
IC-4207541	1.0000	1.0066	0.0066030	0.66030	0.012397	0.000080255	1

Sample Name: ICIS-4204839 Acquired: 8/28/2017 14:09:57 Type: Cal
Method: ICAP1- 1st Qrt 2017(v304) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00028**	**.00093**	**.00001**	**.00081**	**.01183**	**.00252**	**.00043**
Stddev	.00009	.00030	.00000	.00009	.00025	.00015	.00021
%RSD	33.430	32.218	.18181	11.664	2.1191	5.8450	48.752
#1	-.00021	.00072	.00001	.00074	.01201	.00242	.00058
#2	-.00034	.00115	.00001	.00087	.01166	.00263	.00028

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01052**	**.00016**	**.0007**	**-.00012**	**.00005**	**-.00032**	**.00029**
Stddev	.00047	.00001	.0007	.00008	.00005	.00012	.00002
%RSD	4.4797	5.8686	108.9	68.168	90.074	37.530	6.5744
#1	.01018	.00015	.0012	-.00006	.00002	-.00023	.00027
#2	.01085	.00017	.0002	-.00017	.00008	-.00040	.00030

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00009**	**.00593**	**-.00051**	**.00005**	**-.00000**	**.00013**	**.00040**
Stddev	.00014	.00314	.00258	.00001	.00013	.00000	.00026
%RSD	158.03	52.983	502.28	22.732	159350.	1.3628	64.010
#1	-.00001	.00815	.00131	.00004	.00009	.00013	.00058
#2	.00019	.00371	-.00233	.00005	-.00009	.00012	.00022

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01185**	**-.02348**	**-.00048**	**-.00020**	**.0031**	**.00017**	**.00032**
Stddev	.00136	.00223	.00007	.00023	.0004	.00018	.00008
%RSD	11.435	9.5021	15.697	113.94	11.39	104.91	24.915
#1	.01089	-.02191	-.00042	-.00004	.0034	.00004	.00026
#2	.01281	-.02506	-.00053	-.00036	.0029	.00029	.00037

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00147**	**.00026**	**-.00512**	**-.00007**	**-.00002**	**-.00005**	**.00001**
Stddev	.00023	.00014	.00037	.00004	.00006	.00002	.00002
%RSD	15.806	54.596	7.2177	55.711	395.18	46.403	208.07
#1	.00131	.00016	-.00485	-.00010	.00003	-.00003	-.00000
#2	.00164	.00036	-.00538	-.00004	-.00006	-.00007	.00002

Sample Name: ICIS-4204839 Acquired: 8/28/2017 14:09:57 Type: Cal
Method: ICAP1- 1st Qrt 2017(v304) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2045.9**	**1562.2**	**60924.**	**4840.3**
Stddev	2.0	3.0	37.	6.1
%RSD	.09893	.19312	.06149	.12551
#1	2044.5	1560.1	60951.	4844.6
#2	2047.4	1564.4	60898.	4836.0

Sample Name: IC-4209929 Acquired: 8/28/2017 14:13:33 Type: Cal
Method: ICAP1- 1st Qrt 2017(v304) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00134	.00621	.00106	.00961	.03778	.02810	.01873
Stddev	.00003	.00110	.00018	.00004	.00052	.00019	.00015
%RSD	2.0118	17.770	17.220	.36801	1.3642	.66174	.82489
#1	.00136	.00543	.00119	.00958	.03741	.02824	.01862
#2	.00132	.00700	.00093	.00963	.03814	.02797	.01884

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12084	.00588	.00503	.00056	.00226	.00606	.00019
Stddev	.00166	.00003	.00021	.00004	.00004	.00029	.00043
%RSD	1.3703	.54399	4.1552	6.4188	1.5973	4.7508	223.85
#1	.11967	.00586	.00488	.00058	.00224	.00585	.00050
#2	.12201	.00590	.00518	.00053	.00229	.00626	-.00011

Elem	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06749	.06320	.00255	.00209	.00281	.00975	.30763
Stddev	.00141	.00281	.00002	.00004	.00006	.00002	.00049
%RSD	2.0909	4.4401	.69789	2.0947	2.0824	.23083	.15866
#1	.06649	.06519	.00257	.00206	.00277	.00974	.30797
#2	.06849	.06122	.00254	.00212	.00285	.00977	.30728

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.00706	.00781	.00273	.0106	.00392	.00174	.01868
Stddev	.00208	.00004	.00023	.0001	.00031	.00035	.00028
%RSD	29.422	.46844	8.4009	.9486	7.8575	19.944	1.5050
#1	-.00559	.00778	.00257	.0107	.00413	.00149	.01887
#2	-.00853	.00783	.00289	.0106	.00370	.00198	.01848

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00164	.06622	.00183	.00201	.00125	.00014
Stddev	.00020	.00004	.00005	.00001	.00004	.00003
%RSD	12.438	.05898	2.9092	.64550	3.1756	20.464
#1	.00178	.06625	.00187	.00202	.00122	.00012
#2	.00149	.06620	.00179	.00200	.00127	.00016

Sample Name: IC-4209929 Acquired: 8/28/2017 14:13:33 Type: Cal
Method: ICAP1- 1st Qrt 2017(v304) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2029.5	1559.7	61086.	4900.3
Stddev	2.8	.0	267.	17.9
%RSD	.13634	.00175	.43783	.36591
#1	2027.6	1559.7	61275.	4913.0
#2	2031.5	1559.7	60897.	4887.7

Sample Name: IC-4207542 Acquired: 8/28/2017 14:17:10 Type: Cal
Method: ICAP1- 1st Qrt 2017(v304) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12708	.70868	.03705	.21826	5.8250	6.0849	4.5597
Stddev	.00013	.00125	.00034	.00035	.0053	.0062	.0161
%RSD	.10189	.17576	.92723	.16227	.09172	.10239	.35243
#1	.12717	.70957	.03681	.21851	5.8212	6.0805	4.5483
#2	.12699	.70780	.03729	.21801	5.8288	6.0893	4.5711

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.4454	1.1924	.0281	.69396	.05713	.12433	2.9057
Stddev	.0081	.0008	.0013	.00076	.00025	.00014	.0044
%RSD	.14842	.06686	4.490	.10901	.43923	.11084	.15199
#1	5.4397	1.1929	.0290	.69450	.05731	.12443	2.9025
#2	5.4511	1.1918	.0272	.69343	.05695	.12423	2.9088

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.15656	2.8030	1.1055	.31368	.33436	.42407	.46973
Stddev	.00055	.0020	.0028	.00027	.00305	.00067	.00151
%RSD	.34964	.07285	.25142	.08635	.91355	.15913	.32188
#1	.15694	2.8016	1.1075	.31349	.33220	.42359	.47080
#2	.15617	2.8045	1.1036	.31387	.33652	.42455	.46866

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7.3015	.33567	.42702	.14380	.9500	.09131	.03230
Stddev	.0104	.00033	.00085	.00027	.0019	.00032	.00002
%RSD	.14306	.09977	.19871	.18579	.2018	.35265	.07631
#1	7.2941	.33590	.42642	.14399	.9513	.09153	.03232
#2	7.3089	.33543	.42762	.14361	.9486	.09108	.03228

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.87178	.07754	7.1304	.19142	.05758	.13277	.00607
Stddev	.00534	.00016	.0094	.00006	.00002	.00023	.00003
%RSD	.61299	.21199	.13234	.03289	.03104	.17382	.52982
#1	.86800	.07743	7.1238	.19146	.05759	.13294	.00610
#2	.87556	.07766	7.1371	.19137	.05756	.13261	.00605

Sample Name: IC-4207542 Acquired: 8/28/2017 14:17:10 Type: Cal
Method: ICAP1- 1st Qrt 2017(v304) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1829.3	1511.6	58375.	4889.3
Stddev	1.4	4.0	16.	13.1
%RSD	.07675	.26480	.02721	.26778
#1	1828.4	1508.7	58364.	4898.6
#2	1830.3	1514.4	58387.	4880.0

Sample Name: IC-4207541 Acquired: 8/28/2017 14:20:39 Type: Cal
Method: ICAP1- 1st Qrt 2017(v304) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.25808**	**1.4277**	**.07550**	**.43628**	**11.642**	**11.992**	**9.0745**
Stddev	.00080	.0007	.00031	.00119	.026	.030	.0338
%RSD	.31061	.05188	.40659	.27189	.22616	.25258	.37227
#1	.25864	1.4282	.07529	.43544	11.661	11.971	9.0984
#2	.25751	1.4272	.07572	.43712	11.624	12.013	9.0506

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**10.943**	**2.4046**	**.0562**	**1.4150**	**.11447**	**.25085**	**5.7753**
Stddev	.020	.0002	.0006	.0014	.00021	.00070	.0185
%RSD	.17973	.00818	1.002	.09932	.18364	.27789	.32103
#1	10.957	2.4044	.0566	1.4160	.11432	.25134	5.7884
#2	10.929	2.4047	.0558	1.4141	.11462	.25035	5.7622

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.31253**	**5.6179**	**2.2151**	**.63313**	**.66505**	**.84652**	**.93851**
Stddev	.00113	.0007	.0043	.00043	.00238	.00087	.00039
%RSD	.36217	.01261	.19341	.06728	.35796	.10281	.04117
#1	.31333	5.6174	2.2182	.63343	.66674	.84713	.93879
#2	.31173	5.6184	2.2121	.63283	.66337	.84590	.93824

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**14.652**	**.70109**	**.86983**	**.28990**	**1.926**	**.18341**	**.06591**
Stddev	.053	.00263	.00037	.00096	.001	.00089	.00035
%RSD	.35967	.37497	.04282	.33191	.0240	.48370	.52645
#1	14.690	.69923	.86957	.29058	1.926	.18278	.06615
#2	14.615	.70295	.87009	.28922	1.925	.18404	.06566

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.7187**	**.15803**	**14.259**	**.38513**	**.11631**	**.26719**	**.01240**
Stddev	.0008	.00011	.036	.00033	.00010	.00040	.00008
%RSD	.04448	.06845	.25448	.08493	.08424	.14923	.64737
#1	1.7181	.15810	14.285	.38537	.11638	.26748	.01234
#2	1.7192	.15795	14.233	.38490	.11624	.26691	.01245

Sample Name: IC-4207541 Acquired: 8/28/2017 14:20:39 Type: Cal
Method: ICAP1- 1st Qrt 2017(v304) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1732.3	1477.2	56638.	4771.2
Stddev	2.0	.3	144.	6.3
%RSD	.11648	.01920	.25337	.13175
#1	1730.9	1477.4	56740.	4766.7
#2	1733.8	1477.0	56537.	4775.6

Sample Name: ICV-4204840 Acquired: 8/28/2017 14:24:07 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37672	18.144	.36957	.37717	.37229	.37941	18.793	.37509
Stddev	.00091	.001	.00146	.00185	.00201	.00056	.025	.00050
%RSD	.24118	.00796	.39505	.49028	.54050	.14639	.13444	.13389
#1	.37608	18.146	.37060	.37586	.37086	.37980	18.775	.37473
#2	.37736	18.143	.36853	.37848	.37371	.37902	18.811	.37544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.36749	.38003	.37493	18.636	18.816	.37141	18.764
Stddev	.0170	.00091	.00017	.00106	.048	.013	.00022	.012
%RSD	3746.	.24887	.04588	.28380	.25817	.07085	.06005	.06173
#1	.0116	.36814	.37991	.37568	18.670	18.826	.37126	18.756
#2	-.0125	.36685	.38015	.37418	18.602	18.807	.37157	18.772
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38542	.37621	18.805	.37358	.37525	18.73	.37203	.36425
Stddev	.00027	.00045	.005	.00102	.00114	.00	.00251	.01039
%RSD	.07040	.11851	.02858	.27259	.30512	.0017	.67502	2.8517
#1	.38523	.37652	18.801	.37430	.37444	18.73	.37381	.37159
#2	.38561	.37589	18.809	.37286	.37606	18.73	.37025	.35690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICV-4204840 Acquired: 8/28/2017 14:24:07 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.450**	**.38341**	**.37428**	**.37431**	**.37672**	**.37563**	**.37786**
Stddev	.028	.00078	.00048	.00127	.00029	.00125	.00033
%RSD	.15307	.20236	.12937	.33912	.07669	.33311	.08716
#1	18.470	.38286	.37462	.37341	.37652	.37651	.37763
#2	18.430	.38395	.37394	.37521	.37693	.37474	.37810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1855.5**	**1517.5**	**58767.**	**4849.9**
Stddev	.8	.2	11.	7.7
%RSD	.04502	.01127	.01883	.15970
#1	1854.9	1517.6	58759.	4844.4
#2	1856.1	1517.4	58775.	4855.4

Sample Name: ICB-4204839 Acquired: 8/28/2017 14:27:38 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.01006**	**.00142**	**.00041**	**.00000**	**-.00000**	**.00020**	**-.00014**
Stddev	.00020	.01012	.00324	.00054	.00002	.00011	.00229	.00007
%RSD	91.167	100.62	227.77	130.70	4522.9	40648.	1125.0	46.266
#1	.00037	-.01722	.00372	.00003	.00002	.00008	.00183	-.00019
#2	.00008	-.00290	-.00087	.00079	-.00001	-.00008	-.00142	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0133**	**.00002**	**.00082**	**.00031**	**.00081**	**.04039**	**-.00026**	**-.00343**
Stddev	.0037	.00006	.00006	.00034	.00230	.00257	.00017	.00183
%RSD	27.91	244.64	7.3701	110.59	283.36	6.3574	64.606	53.481
#1	-.0107	.00006	.00078	.00055	.00244	.03857	-.00038	-.00213
#2	-.0160	-.00002	.00087	.00007	-.00081	.04220	-.00014	-.00473
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00002**	**-.00513**	**.00010**	**-.00004**	**.0018**	**-.00176**	**-.00135**
Stddev	.00000	.00001	.00823	.00003	.00036	.0093	.00153	.00147
%RSD	31.474	45.486	160.30	26.316	848.64	522.5	86.982	108.47
#1	-.00001	-.00002	.00069	.00011	-.00030	.0084	-.00068	-.00031
#2	-.00001	-.00001	-.01095	.00008	.00021	-.0048	-.00285	-.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB-4204839 Acquired: 8/28/2017 14:27:38 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00580**	**-.00125**	**.00007**	**.00002**	**-.00283**	**.00010**	**-.00008**
Stddev	.00585	.00041	.00001	.00018	.00011	.00019	.00023
%RSD	100.84	32.378	12.200	810.71	3.9933	193.79	276.74
#1	-.00993	-.00154	.00006	.00015	-.00275	-.00004	.00008
#2	-.00166	-.00097	.00007	-.00011	-.00291	.00023	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2033.6**	**1551.4**	**60715.**	**4886.4**
Stddev	1.5	2.2	36.	15.4
%RSD	.07440	.13954	.05862	.31450
#1	2034.7	1549.9	60690.	4875.5
#2	2032.5	1553.0	60741.	4897.3

Sample Name: ICVL-4209929 Acquired: 8/28/2017 14:31:14 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00665	.20073	.01399	.02047	.00216	.00205	.50237	.00211
Stddev	.00047	.01871	.00060	.00016	.00002	.00000	.00342	.00010
%RSD	7.0690	9.3192	4.3044	.77069	.75798	.04007	.68135	4.5510
#1	.00699	.18750	.01356	.02036	.00215	.00205	.50479	.00204
#2	.00632	.21396	.01441	.02058	.00217	.00205	.49995	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.00376	.00449	.01033	.04973	.52954	.03066	.20104
Stddev	.0003	.00003	.00027	.00006	.00087	.00443	.00110	.00347
%RSD	139.7	.70425	6.0338	.56848	1.7505	.83583	3.5746	1.7236
#1	.0000	.00374	.00429	.01029	.04911	.53267	.02988	.20349
#2	.0005	.00377	.00468	.01037	.05035	.52641	.03143	.19859
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00308	.01029	1.0171	.00975	.00923	.1996	.01885	.02160
Stddev	.00003	.00014	.0021	.00021	.00109	.0005	.00225	.00370
%RSD	1.0126	1.3909	.20177	2.1485	11.863	.2564	11.929	17.134
#1	.00311	.01039	1.0185	.00960	.00845	.1999	.01726	.01898
#2	.00306	.01019	1.0156	.00990	.01000	.1992	.02044	.02421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICVL-4209929 Acquired: 8/28/2017 14:31:14 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48588	.00909	.00501	.00464	.01815	.00497	.01047
Stddev	.00658	.00131	.00014	.00030	.00042	.00002	.00057
%RSD	1.3536	14.452	2.7548	6.4638	2.3235	.43871	5.4087
#1	.49053	.01002	.00491	.00443	.01786	.00495	.01007
#2	.48123	.00816	.00511	.00486	.01845	.00498	.01087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2026.7	1560.9	60867.	4932.8
Stddev	2.3	2.6	145.	5.7
%RSD	.11577	.16371	.23895	.11456
#1	2025.0	1559.1	60970.	4936.8
#2	2028.3	1562.7	60764.	4928.8

Sample Name: ICSA-4090634 Acquired: 8/28/2017 14:34:51 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**484.86**	**-.00872**	**.00245**	**.00095**	**-.00007**	**462.33**	**.00016**
Stddev	.00040	.57	.00707	.00023	.00001	.00007	1.72	.00034
%RSD	57.378	.11682	81.068	9.2031	1.5612	99.246	.37270	209.68
#1	.00042	485.26	-.00372	.00261	.00094	-.00012	461.11	-.00008
#2	.00099	484.46	-.01372	.00229	.00096	-.00002	463.55	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0304**	**.00001**	**.00009**	**.00162**	**188.39**	**.09986**	**.00420**	**516.02**
Stddev	.0072	.00016	.00020	.00005	.34	.04441	.00111	2.78
%RSD	23.73	1737.2	221.23	2.8188	.17908	44.472	26.459	.53865
#1	.0355	-.00010	.00023	.00166	188.15	.06846	.00498	517.99
#2	.0253	.00012	-.00005	.00159	188.63	.13126	.00341	514.06
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00104**	**.05194**	**-.00026**	**-.00971**	**-.1924**	**.00379**	**-.00799**
Stddev	.00002	.00038	.00543	.00020	.00202	.0232	.00429	.00465
%RSD	4.9617	36.542	10.453	76.596	20.795	12.06	113.07	58.134
#1	.00036	.00131	.04810	-.00040	-.01114	-.1759	.00683	-.01128
#2	.00038	.00077	.05578	-.00012	-.00828	-.2088	.00076	-.00471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICSA-4090634 Acquired: 8/28/2017 14:34:51 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02745**	**-.00178**	**.03171**	**-.00090**	**-.00941**	**-.00021**	**.00895**
Stddev	.00334	.00168	.00007	.00000	.00188	.00027	.00049
%RSD	12.179	94.395	.22262	.01288	19.932	130.78	5.4239
#1	.02508	-.00059	.03176	-.00090	-.01073	-.00002	.00861
#2	.02981	-.00297	.03166	-.00090	-.00808	-.00040	.00929
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1467.5**	**1355.1**	**51514.**	**4721.7**
Stddev	3.1	.7	157.	1.5
%RSD	.20823	.04857	.30404	.03259
#1	1469.6	1355.5	51403.	4720.6
#2	1465.3	1354.6	51624.	4722.8

Sample Name: ICSAB-4167458 Acquired: 8/28/2017 14:38:37 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22610	506.56	.09340	.00584	.49792	.50237	462.06	1.0176
Stddev	.00078	2.00	.00997	.00068	.00078	.00161	2.04	.0031
%RSD	.34599	.39404	10.671	11.722	.15593	.32021	.44101	.30267
#1	.22665	507.97	.08635	.00633	.49847	.50350	460.62	1.0154
#2	.22555	505.15	.10045	.00536	.49737	.50123	463.50	1.0198
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208	.48786	.47917	.53149	95.994	.06990	.51826	527.98
Stddev	.0084	.00120	.00115	.00102	.356	.00610	.00277	.44
%RSD	40.23	.24537	.23900	.19181	.37085	8.7285	.53387	.08410
#1	.0267	.48870	.47998	.53222	96.245	.07421	.52022	527.66
#2	.0149	.48701	.47836	.53077	95.742	.06558	.51631	528.29
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49465	.00185	.17672	.96469	.04491	.8049	.60065	.04939
Stddev	.00101	.00035	.01062	.00242	.00119	.0014	.00254	.01183
%RSD	.20377	19.117	6.0077	.25035	2.6595	.1695	.42295	23.957
#1	.49536	.00160	.16921	.96640	.04576	.8040	.59886	.04102
#2	.49393	.00210	.18423	.96298	.04407	.8059	.60245	.05776
Check ?	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICSAB-4167458 Acquired: 8/28/2017 14:38:37 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99131	-.00212	.48890	.00070	.09702	.50144	.91907
Stddev	.00857	.00115	.00200	.00016	.00127	.00084	.00639
%RSD	.86412	54.318	.40972	23.477	1.3084	.16803	.69567
#1	.99737	-.00293	.49032	.00081	.09792	.50203	.92359
#2	.98526	-.00130	.48748	.00058	.09612	.50084	.91455
Check ?	Chk Pass	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1466.0	1352.0	51111.	4701.2
Stddev	1.5	4.7	123.	7.7
%RSD	.10462	.34950	.24091	.16473
#1	1465.0	1355.3	51198.	4695.7
#2	1467.1	1348.6	51024.	4706.7

Sample Name: ICEX1 Acquired: 8/28/2017 14:42:20 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.15069**	**4.9478**	**-.00021**	**.00004**
Stddev	.00036	.02043	.0076	.00023	.00001
%RSD	125.86	13.561	.15383	109.28	35.379
#1	-.00003	-.16514	4.9424	-.00005	.00003
#2	-.00054	-.13624	4.9532	-.00037	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.01435**	**-.00127**	**-.0053**	**.00019**
Stddev	.00002	.00182	.00015	.0115	.00004
%RSD	2.0667	12.659	11.568	215.8	22.044
#1	.00089	.01307	-.00117	.0028	.00016
#2	.00092	.01564	-.00138	-.0135	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**25.416**	**.00092**	**.01657**	**-.00062**
Stddev	.00068	.097	.00193	.00206	.00060
%RSD	228.14	.38000	209.68	12.429	96.723
#1	-.00018	25.348	.00228	.01803	-.00019
#2	.00078	25.485	-.00044	.01511	-.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/28/2017 14:42:20 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**.00011**	**-.00092**	**-.00033**	**.00028**
Stddev	.00137	.00003	.00004	.00085	.00024
%RSD	48.973	25.885	3.9911	257.37	85.521
#1	.00182	.00009	-.00090	-.00093	.00045
#2	.00375	.00013	-.00095	.00027	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.0019**	**-.00022**	**-.00002**	**.00183**
Stddev	.00111	.0037	.00499	.00502	.00851
%RSD	478.18	193.0	2288.9	27831.	464.28
#1	-.00102	-.0007	-.00374	-.00357	-.00418
#2	.00055	.0045	.00331	.00353	.00785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00002**	**-.00115**	**.00073**	**4.9823**
Stddev	.00117	.00000	.00021	.00009	.0138
%RSD	263.64	17.388	18.305	12.856	.27599
#1	-.00127	.00002	-.00100	.00079	4.9726
#2	.00038	.00001	-.00130	.00066	4.9920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/28/2017 14:42:20 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00024
Stddev	.00108
%RSD	454.08
#1	-.00053
#2	.00100
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2007.8	1545.3	60419.	4888.8
Stddev	4.8	.4	148.	6.0
%RSD	.23770	.02863	.24415	.12174
#1	2011.2	1545.6	60524.	4884.6
#2	2004.4	1545.0	60315.	4893.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.135%	98.917%	99.171%	101.00%
Range				

Sample Name: ICEX2 Acquired: 8/28/2017 14:46:06 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**.02406**	**-.00504**	**.01107**	**.00017**
Stddev	.00003	.00829	.00010	.00032	.00000
%RSD	5.5229	34.434	2.0009	2.8859	1.1037
#1	-.00056	.01820	-.00497	.01129	.00017
#2	-.00060	.02992	-.00511	.01084	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.15154**	**.00040**	**.0047**	**.00108**
Stddev	.00019	.00291	.00011	.0107	.00022
%RSD	128.25	1.9212	28.715	228.0	20.141
#1	-.00028	.14948	.00032	.0122	.00123
#2	-.00001	.15360	.00048	-.0029	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00114**	**-.00223**	**.00444**	**.04977**	**.00026**
Stddev	.00001	.00008	.00024	.03362	.00076
%RSD	1.1589	3.5702	5.3331	67.548	295.88
#1	.00113	-.00229	.00427	.02600	-.00028
#2	.00115	-.00218	.00461	.07355	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/28/2017 14:46:06 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.04581**	F **.00804**	**.00007**	**.04009**	**-.00110**
Stddev	.00214	.00008	.00007	.00561	.00031
%RSD	4.6678	.96216	107.51	13.997	27.710
#1	-.04430	.00799	.00002	.03612	-.00089
#2	-.04733	.00810	.00012	.04406	-.00132
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**-.0242**	**-.00160**	**-.00023**	**.39333**
Stddev	.00157	.0057	.00064	.00457	.03658
%RSD	177.99	23.60	40.047	2002.1	9.2992
#1	-.00023	-.0201	-.00115	.00300	.36747
#2	.00199	-.0282	-.00206	-.00346	.41920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00642**	**.00015**	**19.452**	**20.364**	**-.00062**
Stddev	.00124	.00002	.230	.009	.00028
%RSD	19.380	12.252	1.1800	.04495	44.755
#1	-.00729	.00013	19.290	20.370	-.00082
#2	-.00554	.00016	19.614	20.357	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/28/2017 14:46:06 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F .01688
Stddev	.00047
%RSD	2.7752
#1	.01721
#2	.01655
Check ?	Chk Fail
High Limit	.01000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2004.1	1552.9	61129.	4882.1
Stddev	1.5	2.0	517.	21.6
%RSD	.07611	.12760	.84605	.44199
#1	2003.0	1554.3	61495.	4866.9
#2	2005.2	1551.5	60764.	4897.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.956%	99.403%	100.34%	100.86%
Range				

Sample Name: ICEX3 Acquired: 8/28/2017 14:49:47 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00340**	**.01676**	**-.00340**	**-.00071**	**.00010**
Stddev	.00033	.02694	.00035	.00027	.00001
%RSD	9.8508	160.75	10.351	38.018	6.5993
#1	.00316	.03581	-.00315	-.00052	.00010
#2	.00363	-.00229	-.00365	-.00091	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00659**	**.00026**	**-.6130**	**.00017**
Stddev	.00003	.00007	.00010	.0061	.00008
%RSD	156.46	1.0272	37.741	.9902	44.450
#1	-.00005	.00664	.00032	-.6087	.00023
#2	.00000	.00654	.00019	-.6173	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.00046**	**-.01904**	**-.00537**	**-.00027**
Stddev	.00008	.00061	.00042	.00310	.00000
%RSD	6.3366	134.32	2.2187	57.703	.78996
#1	.00122	.00002	-.01934	-.00756	-.00027
#2	.00134	.00089	-.01875	-.00318	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/28/2017 14:49:47 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05935**	**52.268**	**-.00084**	**-.01592**	**.00102**
Stddev	.00185	.097	.00011	.00619	.00028
%RSD	3.1228	.18530	13.436	38.855	27.330
#1	.05804	52.199	-.00092	-.02030	.00082
#2	.06066	52.336	-.00076	-.01155	.00121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00489**	**97.93**	**-.00156**	**.02407**	**-.00723**
Stddev	.00143	.15	.00066	.00480	.01471
%RSD	29.203	.1561	42.472	19.950	203.33
#1	.00388	98.04	-.00203	.02067	-.01763
#2	.00590	97.82	-.00109	.02746	.00317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.00006**	**.00150**	**-.01361**	**-.00001**
Stddev	.00012	.00002	.00025	.00051	.00018
%RSD	22.711	29.720	16.821	3.7825	1755.7
#1	-.00062	.00005	.00132	-.01398	-.00014
#2	-.00045	.00007	.00168	-.01325	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/28/2017 14:49:47 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00245
Stddev	.00014
%RSD	5.6692
#1	.00235
#2	.00255
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1997.8	1548.4	60394.	4899.9
Stddev	.3	3.3	114.	4.6
%RSD	.01323	.21352	.18832	.09384
#1	1997.6	1546.1	60474.	4903.2
#2	1998.0	1550.8	60314.	4896.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.646%	99.117%	99.130%	101.23%
Range				

Sample Name: ICEX4 Acquired: 8/28/2017 14:53:27 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**-.03085**	**-.00869**	**-.00154**	**.00006**
Stddev	.00038	.00820	.00116	.00041	.00000
%RSD	89.308	26.575	13.309	26.427	.81076
#1	.00016	-.02505	-.00788	-.00125	.00007
#2	.00070	-.03664	-.00951	-.00183	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.03211**	**-.00055**	**.0138**	**18.748**
Stddev	.00000	.00020	.00008	.0087	.017
%RSD	2.7261	.60766	13.637	62.66	.09083
#1	-.00007	.03197	-.00050	.0199	18.760
#2	-.00007	.03224	-.00061	.0077	18.736
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.338**	**.00556**	**-.00040**	**.02401**	**-.00033**
Stddev	.044	.00019	.00419	.02547	.00048
%RSD	.42398	3.4587	1048.0	106.08	143.70
#1	10.369	.00570	-.00336	.04202	.00001
#2	10.307	.00543	.00256	.00600	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/28/2017 14:53:27 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00689**	**.00163**	**.00033**	**-.01405**	**-.00249**
Stddev	.00057	.00006	.00035	.00129	.00019
%RSD	8.2970	3.3981	105.50	9.1687	7.5902
#1	-.00649	.00167	.00008	-.01496	-.00235
#2	-.00730	.00159	.00058	-.01314	-.00262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**-.0738**	**.00085**	**.00017**	**-.01613**
Stddev	.00067	.0006	.00286	.00260	.00980
%RSD	94.195	.8608	338.73	1517.7	60.736
#1	-.00024	-.0742	-.00118	.00201	-.00921
#2	-.00119	-.0733	.00287	-.00167	-.02306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.00003**	**.00032**	**-.00420**	**-.00032**
Stddev	.00071	.00002	.00000	.00027	.00039
%RSD	101.35	93.215	.02549	6.3093	122.85
#1	-.00020	.00004	.00032	-.00439	-.00004
#2	-.00121	.00001	.00032	-.00401	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/28/2017 14:53:27 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00157**
Stddev	.00136
%RSD	86.604
#1	-.00253
#2	-.00061
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2027.6**	**1552.0**	**60895.**	**4964.3**
Stddev	.0	3.3	192.	12.6
%RSD	.00146	.21113	.31535	.25354
#1	2027.6	1554.3	60759.	4955.4
#2	2027.6	1549.6	61031.	4973.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.104%	99.343%	99.952%	102.56%
Range				

Sample Name: ICEX5 Acquired: 8/28/2017 14:57:03 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.07633**	**.00814**	**-.00103**	**-.00005**
Stddev	.00028	.00037	.00479	.00066	.00002
%RSD	37.549	.48351	58.757	63.564	32.258
#1	.00094	.07659	.01153	-.00150	-.00004
#2	.00055	.07607	.00476	-.00057	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.01260**	**-.00001**	**-.0108**	**-.00366**
Stddev	.00003	.00112	.00034	.0080	.00002
%RSD	11.731	8.9259	3223.8	74.74	.46637
#1	-.00025	.01340	-.00025	-.0165	-.00367
#2	-.00029	.01181	.00023	-.0051	-.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00123**	**.00206**	**.02702**	**-.00054**
Stddev	.00028	.00013	.00055	.00886	.00047
%RSD	110.71	10.815	26.942	32.787	86.270
#1	-.00005	-.00114	.00167	.03328	-.00087
#2	-.00045	-.00133	.00245	.02076	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/28/2017 14:57:03 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01669**	**.00091**	**4.9495**	**.00765**	**.00034**
Stddev	.00406	.00002	.0102	.00120	.00032
%RSD	24.344	2.2011	.20553	15.667	95.498
#1	.01956	.00092	4.9423	.00850	.00056
#2	.01382	.00089	4.9567	.00681	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00298**	**-.0345**	**-.00236**	**.00425**	**-.00076**
Stddev	.00105	.0066	.00191	.00381	.00032
%RSD	35.036	19.05	80.735	89.590	41.536
#1	.00372	-.0392	-.00101	.00156	-.00099
#2	.00224	-.0299	-.00371	.00694	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00004**	**-.00099**	**-.00368**	**.00056**
Stddev	.00017	.00007	.00023	.00024	.00001
%RSD	424.29	170.49	22.951	6.4575	1.2937
#1	.00008	.00009	-.00083	-.00385	.00055
#2	-.00016	-.00001	-.00115	-.00351	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/28/2017 14:57:03 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00069
Stddev	.00013
%RSD	18.602
#1	.00060
#2	.00078
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2013.1	1547.9	60915.	4913.3
Stddev	2.2	.8	62.	12.8
%RSD	.11134	.05044	.10247	.26025
#1	2011.5	1548.4	60959.	4922.4
#2	2014.7	1547.3	60871.	4904.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.394%	99.082%	99.985%	101.51%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 15:00:39 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50763**	**24.001**	**.50423**	**.50409**	**.49688**	**.50104**	**24.929**	**.50221**
Stddev	.00128	.129	.00471	.00107	.00018	.00101	.015	.00083
%RSD	.25187	.53872	.93349	.21321	.03708	.20155	.06034	.16466
#1	.50854	24.092	.50090	.50485	.49701	.50175	24.940	.50279
#2	.50673	23.909	.50755	.50333	.49675	.50033	24.919	.50162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0036**	**.48991**	**.50152**	**.50260**	**24.659**	**24.955**	**.49664**	**25.025**
Stddev	.0044	.00042	.00210	.00019	.012	.066	.00024	.005
%RSD	122.5	.08597	.41847	.03776	.04676	.26447	.04755	.02104
#1	-.0005	.48961	.50300	.50246	24.667	25.001	.49648	25.021
#2	-.0066	.49021	.50003	.50273	24.651	24.908	.49681	25.028
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51227**	**.50193**	**24.844**	**.50036**	**.49827**	**25.24**	**.49700**	**.49798**
Stddev	.00102	.00015	.059	.00068	.00081	.01	.00262	.00029
%RSD	.19914	.03039	.23839	.13608	.16268	.0571	.52696	.05891
#1	.51154	.50204	24.885	.50084	.49770	25.25	.49885	.49778
#2	.51299	.50182	24.802	.49988	.49884	25.23	.49514	.49819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 15:00:39 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.162**	**.51416**	**.49495**	**.49939**	**.50476**	**.49953**	**.50063**
Stddev	.006	.00197	.00070	.00095	.00018	.00112	.00338
%RSD	.02288	.38324	.14166	.19035	.03594	.22438	.67471
#1	24.158	.51277	.49544	.49872	.50463	.49873	.50302
#2	24.166	.51556	.49445	.50006	.50488	.50032	.49824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1830.2**	**1506.7**	**58432.**	**4882.7**
Stddev	.9	.3	110.	8.0
%RSD	.04685	.01982	.18838	.16452
#1	1830.8	1506.5	58510.	4888.4
#2	1829.6	1506.9	58354.	4877.0

Sample Name: CCB-4204839 Acquired: 8/28/2017 15:04:08 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.01571**	**.00055**	**-.00024**	**.00000**	**-.00001**	**.00048**	**-.00001**
Stddev	.00003	.01913	.00202	.00010	.00001	.00001	.00279	.00010
%RSD	8.0945	121.77	365.41	39.847	199.09	87.098	576.73	987.26
#1	.00039	-.02923	.00198	-.00018	-.00000	-.00001	.00246	-.00008
#2	.00043	-.00218	-.00087	-.00031	.00001	-.00000	-.00149	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0069**	**-.00012**	**.00057**	**.00001**	**.00079**	**.01961**	**-.00033**	**.00344**
Stddev	.0112	.00006	.00007	.00015	.00196	.02763	.00005	.00099
%RSD	161.0	49.683	12.337	1201.2	247.17	140.91	16.831	28.838
#1	-.0148	-.00016	.00062	.00012	.00218	.00007	-.00036	.00414
#2	.0010	-.00008	.00052	-.00010	-.00059	.03915	-.00029	.00274
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00030**	**-.02507**	**.00006**	**.00034**	**.0012**	**-.00049**	**-.00125**
Stddev	.00001	.00004	.00308	.00009	.00035	.0005	.00101	.00053
%RSD	42.067	12.139	12.295	142.60	102.65	43.86	208.51	42.489
#1	.00002	.00027	-.02289	-.00000	.00058	.0008	-.00120	-.00088
#2	.00003	.00032	-.02725	.00013	.00009	.0016	.00023	-.00163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 15:04:08 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01174**	**-.00017**	**-.00004**	**.00005**	**-.00302**	**-.00002**	**.00059**
Stddev	.00624	.00088	.00001	.00006	.00088	.00026	.00095
%RSD	53.154	515.40	32.784	117.91	29.106	1176.8	160.00
#1	.01616	-.00079	-.00003	.00001	-.00239	-.00021	-.00008
#2	.00733	.00045	-.00006	.00010	-.00364	.00016	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2034.6**	**1551.4**	**60657.**	**4882.0**
Stddev	2.4	.9	119.	23.8
%RSD	.11711	.05884	.19614	.48678
#1	2036.3	1552.0	60573.	4898.8
#2	2033.0	1550.7	60741.	4865.2

Sample Name: CCVL-4209929 Acquired: 8/28/2017 15:09:55 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00637**	**.20363**	**.01308**	**.02013**	**.00214**	**.00197**	**.50393**	**.00224**
Stddev	.00068	.00039	.00216	.00001	.00000	.00001	.00970	.00011
%RSD	10.667	.19024	16.499	.04327	.08789	.33403	1.9239	5.0630
#1	.00685	.20335	.01461	.02012	.00214	.00197	.51078	.00232
#2	.00589	.20390	.01155	.02013	.00214	.00196	.49707	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.00373**	**.00443**	**.00993**	**.05176**	**.49331**	**.03075**	**.19890**
Stddev	.0177	.00011	.00000	.00021	.00076	.02838	.00108	.00201
%RSD	673.5	3.0549	.08020	2.0747	1.4629	5.7526	3.5077	1.0127
#1	-.0099	.00365	.00443	.01007	.05230	.51338	.03151	.20032
#2	.0151	.00382	.00443	.00978	.05123	.47324	.02998	.19747
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00301**	**.01039**	**.99632**	**.00952**	**.00964**	**.1997**	**.02038**	**.02609**
Stddev	.00002	.00016	.00655	.00045	.00012	.0087	.00138	.00066
%RSD	.61593	1.5802	.65708	4.7738	1.2876	4.358	6.7701	2.5168
#1	.00302	.01028	1.0009	.00920	.00973	.1936	.01940	.02655
#2	.00299	.01051	.99169	.00985	.00955	.2059	.02135	.02562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-4209929 Acquired: 8/28/2017 15:09:55 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49053	.00868	.00505	.00466	.01808	.00483	.01113
Stddev	.01146	.00054	.00003	.00005	.00047	.00007	.00038
%RSD	2.3361	6.2610	.61298	1.1230	2.6106	1.4479	3.4561
#1	.48243	.00906	.00508	.00469	.01842	.00488	.01086
#2	.49863	.00830	.00503	.00462	.01775	.00478	.01140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2027.8	1557.0	61071.	4953.6
Stddev	2.4	1.3	101.	.5
%RSD	.12056	.08048	.16515	.00964
#1	2026.1	1556.1	60999.	4953.9
#2	2029.5	1557.9	61142.	4953.2

Sample Name: MB 480-373533/1-B Acquired: 8/28/2017 15:13:31 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.01530**	**.00111**	**.00103**	**.00012**
Stddev	.00024	.00958	.00473	.00036	.00001
%RSD	103.35	62.649	426.43	34.935	11.796
#1	.00006	.00852	-.00223	.00078	.00011
#2	.00040	.02208	.00445	.00128	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.02782**	**-.00000**	**-.0189**	**-.00009**
Stddev	.00001	.00068	.00013	.0061	.00019
%RSD	32.387	2.4351	5198.5	32.01	217.07
#1	-.00003	.02735	.00009	-.0147	-.00022
#2	-.00005	.02830	-.00010	-.0232	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00907**	**.00298**	**.01780**	**.00027**
Stddev	.00040	.00026	.00035	.00211	.00051
%RSD	269.35	2.8873	11.678	11.880	189.26
#1	-.00044	.00925	.00323	.01630	-.00009
#2	.00014	.00888	.00274	.01929	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373533/1-B Acquired: 8/28/2017 15:13:31 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00415**	**.00080**	**-.00004**	**-.00423**	**.00005**
Stddev	.00148	.00009	.00027	.00145	.00038
%RSD	35.693	11.101	657.89	34.238	716.60
#1	.00519	.00073	.00015	-.00525	.00032
#2	.00310	.00086	-.00024	-.00320	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.0083**	**-.00261**	**-.00046**	**-.01946**
Stddev	.00040	.0020	.00136	.00308	.00349
%RSD	19.785	23.63	52.021	666.21	17.916
#1	.00174	.0097	-.00356	.00172	-.01700
#2	.00231	.0069	-.00165	-.00264	-.02193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00014**	**.00008**	**-.00172**	**-.00004**
Stddev	.00013	.00008	.00005	.00089	.00013
%RSD	168.04	56.113	64.436	51.472	314.72
#1	.00001	.00020	.00004	-.00110	.00005
#2	-.00017	.00009	.00011	-.00235	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373533/1-B Acquired: 8/28/2017 15:13:31 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01773
Stddev	.00041
%RSD	2.2844
#1	.01744
#2	.01802
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2050.9	1560.4	61619.	5051.3
Stddev	3.9	3.5	166.	27.2
%RSD	.19077	.22653	.26897	.53940
#1	2048.1	1557.9	61501.	5032.1
#2	2053.6	1562.9	61736.	5070.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.24%	99.886%	101.14%	104.36%
Range				

Sample Name: 480-123019-F-1-B@2 Acquired: 8/28/2017 15:17:08 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.04787**	**.01250**	**.13801**	**.03949**
Stddev	.00007	.01408	.00376	.00024	.00011
%RSD	90.822	29.421	30.093	.17475	.27915
#1	-.00012	.05782	.01516	.13818	.03956
#2	-.00003	.03791	.00984	.13784	.03941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**129.14**	**.00016**	**-.0172**	**.00002**
Stddev	.00006	.16	.00042	.0038	.00001
%RSD	72.764	.12384	267.69	22.32	59.592
#1	-.00004	129.03	-.00014	-.0199	.00003
#2	-.00013	129.26	.00046	-.0145	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00032**	**.83895**	**5.2228**	**.00896**
Stddev	.00005	.00013	.00004	.0062	.00021
%RSD	23.050	40.024	.00510	.11880	2.3093
#1	.00016	.00041	.83892	5.2272	.00910
#2	.00023	.00023	.83898	5.2184	.00881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-F-1-B@2 Acquired: 8/28/2017 15:17:08 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.301**	**.24355**	**.00195**	**14.546**	**-.00001**
Stddev	.043	.00018	.00041	.022	.00043
%RSD	.17816	.07446	20.785	.15436	2885.0
#1	24.270	.24368	.00224	14.562	-.00032
#2	24.332	.24342	.00166	14.531	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00148**	**54.38**	**-.00380**	**-.00728**	**9.0011**
Stddev	.00072	.00	.00098	.00493	.0426
%RSD	48.704	.0087	25.826	67.777	.47320
#1	.00097	54.38	-.00310	-.00379	8.9709
#2	.00200	54.39	-.00449	-.01077	9.0312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.50718**	**-.00007**	**-.00217**	**.00019**
Stddev	.00062	.00103	.00004	.00144	.00005
%RSD	93.707	.20387	53.565	66.277	26.297
#1	.00022	.50791	-.00004	-.00115	.00015
#2	.00109	.50645	-.00009	-.00319	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-F-1-B@2 Acquired: 8/28/2017 15:17:08 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00765
Stddev	.00033
%RSD	4.2572
#1	.00742
#2	.00788
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1801.9	1457.4	57495.	4896.8
Stddev	1.2	.3	57.	32.6
%RSD	.06744	.02018	.09837	.66629
#1	1801.0	1457.2	57455.	4919.8
#2	1802.7	1457.6	57535.	4873.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.071%	93.290%	94.371%	101.17%
Range				

Sample Name: 480-123019-G-2-B@10 Acquired: 8/28/2017 15:20:41 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00346**	**.00440**	**.08227**	**.00480**
Stddev	.00023	.00223	.00144	.00109	.00000
%RSD	378.16	64.605	32.806	1.3298	.05520
#1	.00010	.00504	.00542	.08150	.00480
#2	-.00023	.00188	.00338	.08304	.00480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**33.184**	**.00001**	**.0116**	**-.00014**
Stddev	.00007	.046	.00026	.0125	.00019
%RSD	102.38	.13851	2292.2	108.3	135.82
#1	-.00002	33.152	.00019	.0204	-.00028
#2	-.00011	33.217	-.00017	.0027	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00110**	**.00040**	**3.2006**	**.00197**
Stddev	.00055	.00046	.00173	.0007	.00026
%RSD	426.90	42.120	430.41	.02154	13.285
#1	.00052	.00077	.00162	3.2001	.00178
#2	-.00026	.00143	-.00082	3.2011	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-G-2-B@10 Acquired: 8/28/2017 15:20:41 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.977**	**.07969**	**.00036**	**49.479**	**.00097**
Stddev	.050	.00047	.00006	.027	.00038
%RSD	.17853	.58468	16.104	.05544	39.134
#1	28.013	.08002	.00032	49.459	.00124
#2	27.942	.07937	.00040	49.498	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**47.31**	**-.00184**	**-.00543**	**1.1431**
Stddev	.00033	.08	.00035	.00165	.0022
%RSD	17.464	.1665	19.024	30.318	.19203
#1	.00164	47.25	-.00209	-.00660	1.1415
#2	.00210	47.36	-.00159	-.00427	1.1446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.19406**	**-.00009**	**-.00259**	**.00019**
Stddev	.00008	.00046	.00015	.00068	.00011
%RSD	9.4055	.23553	161.75	26.375	57.261
#1	-.00087	.19374	.00001	-.00307	.00027
#2	-.00076	.19439	-.00019	-.00210	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-G-2-B@10 Acquired: 8/28/2017 15:20:41 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00323
Stddev	.00194
%RSD	59.978
#1	.00186
#2	.00460
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1827.1	1483.0	57680.	4834.8
Stddev	5.5	.9	155.	17.1
%RSD	.29959	.06322	.26935	.35267
#1	1823.3	1482.3	57570.	4822.7
#2	1831.0	1483.6	57790.	4846.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.306%	94.926%	94.675%	99.885%
Range				

Sample Name: 480-123019-G-3-B@2 Acquired: 8/28/2017 15:24:15 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.08431**	**.00765**	**.76737**	**.06266**
Stddev	.00006	.01055	.00231	.00175	.00000
%RSD	14.944	12.515	30.148	.22838	.00016
#1	.00037	.09178	.00928	.76861	.06266
#2	.00046	.07685	.00602	.76613	.06266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**101.38**	**.00041**	**-.0180**	**.00073**
Stddev	.00003	.05	.00026	.0200	.00004
%RSD	54.894	.05154	64.676	111.1	5.5059
#1	-.00006	101.41	.00022	-.0038	.00076
#2	-.00003	101.34	.00059	-.0321	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00063**	**.00511**	**6.1922**	**.00847**
Stddev	.00020	.00002	.00328	.0199	.00022
%RSD	94.828	2.5254	64.112	.32143	2.5760
#1	.00007	.00064	.00279	6.1781	.00831
#2	.00035	.00061	.00743	6.2063	.00862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-G-3-B@2 Acquired: 8/28/2017 15:24:15 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**86.087**	**.25087**	**.00216**	**99.159**	**.00224**
Stddev	.163	.00076	.00010	.028	.00020
%RSD	.18880	.30108	4.4124	.02820	9.0936
#1	86.202	.25141	.00209	99.179	.00210
#2	85.972	.25034	.00223	99.139	.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**56.77**	**-.00344**	**-.01190**	**6.9213**
Stddev	.00014	.07	.00070	.00429	.0199
%RSD	6.7558	.1237	20.352	36.044	.28732
#1	.00193	56.82	-.00394	-.00887	6.9073
#2	.00213	56.72	-.00295	-.01493	6.9354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.69385**	**.00019**	**-.00105**	**-.00037**
Stddev	.00082	.00067	.00002	.00006	.00009
%RSD	291.93	.09635	11.540	5.7670	24.573
#1	-.00030	.69432	.00020	-.00101	-.00030
#2	.00086	.69337	.00017	-.00109	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-G-3-B@2 Acquired: 8/28/2017 15:24:15 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00845
Stddev	.00057
%RSD	6.7550
#1	.00804
#2	.00885
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1718.3	1428.2	56012.	4826.8
Stddev	.3	2.5	146.	7.0
%RSD	.01695	.17279	.26015	.14481
#1	1718.1	1426.5	55909.	4821.8
#2	1718.5	1430.0	56115.	4831.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.986%	91.423%	91.937%	99.720%
Range				

Sample Name: 480-123019-H-4-B@2 Acquired: 8/28/2017 15:27:47 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.03068**	**-.00296**	**.39019**	**.01532**
Stddev	.00016	.02071	.00075	.00079	.00006
%RSD	60.246	67.526	25.429	.20288	.41518
#1	-.00038	.04532	-.00243	.39075	.01527
#2	-.00015	.01603	-.00350	.38963	.01536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**89.767**	**.00039**	**.0013**	**.00006**
Stddev	.00008	.630	.00003	.0104	.00004
%RSD	198.01	.70207	6.5457	809.9	59.617
#1	.00002	89.322	.00037	.0087	.00009
#2	-.00010	90.213	.00041	-.0061	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00023**	**.00312**	**1.9783**	**.00777**
Stddev	.00021	.00021	.00064	.0150	.00098
%RSD	161.21	89.446	20.527	.75798	12.581
#1	-.00002	.00038	.00266	1.9889	.00846
#2	.00028	.00008	.00357	1.9677	.00708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-H-4-B@2 Acquired: 8/28/2017 15:27:47 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.200**	**.12446**	**.00066**	**33.644**	**.00041**
Stddev	.097	.00054	.00004	.150	.00016
%RSD	.29191	.43213	5.4708	.44442	39.762
#1	33.132	.12408	.00069	33.538	.00030
#2	33.269	.12484	.00064	33.750	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00329**	**49.58**	**-.00330**	**-.00825**	**4.4564**
Stddev	.00030	.14	.00199	.00189	.0403
%RSD	9.0817	.2812	60.437	22.963	.90426
#1	.00350	49.68	-.00471	-.00691	4.4279
#2	.00308	49.48	-.00189	-.00958	4.4849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.38161**	**-.00004**	**.00051**	**.00024**
Stddev	.00085	.00133	.00024	.00034	.00020
%RSD	189.58	.34848	667.93	67.080	82.828
#1	.00015	.38067	.00014	.00075	.00037
#2	-.00105	.38255	-.00021	.00027	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-H-4-B@2 Acquired: 8/28/2017 15:27:47 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01230**
Stddev	.00151
%RSD	12.275
#1	.01124
#2	.01337
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1805.1**	**1469.1**	**57484.**	**4898.8**
Stddev	.7	2.7	15.	30.4
%RSD	.03810	.18426	.02545	.62005
#1	1805.6	1467.2	57494.	4920.2
#2	1804.6	1471.0	57474.	4877.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.230%	94.037%	94.353%	101.21%
Range				

Sample Name: 480-123019-G-5-B@10 Acquired: 8/28/2017 15:31:21 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.02930**	**-.00085**	**.07259**	**.00310**
Stddev	.00018	.00033	.00463	.00037	.00001
%RSD	162.69	1.1405	547.10	.51286	.19002
#1	-.00002	.02954	.00243	.07285	.00311
#2	.00024	.02907	-.00412	.07233	.00310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**59.644**	**.00161**	**-.0137**	**.00009**
Stddev	.00005	.118	.00005	.0044	.00009
%RSD	272.61	.19828	3.4126	32.06	96.722
#1	.00005	59.728	.00164	-.0106	.00003
#2	-.00002	59.560	.00157	-.0168	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00015**	**.01257**	**1.1530**	**.00141**
Stddev	.00028	.00012	.00193	.0028	.00105
%RSD	65.878	78.745	15.331	.24483	74.361
#1	.00023	.00024	.01393	1.1550	.00067
#2	.00063	.00007	.01121	1.1510	.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-G-5-B@10 Acquired: 8/28/2017 15:31:21 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.236**	**.12607**	**.00008**	**4.2700**	**.00025**
Stddev	.041	.00045	.00008	.0073	.00043
%RSD	.33796	.35838	100.46	.17160	173.14
#1	12.207	.12575	.00002	4.2752	.00055
#2	12.265	.12639	.00014	4.2648	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**44.01**	**-.00427**	**-.00395**	**.80168**
Stddev	.00035	.05	.00114	.00174	.01876
%RSD	37.042	.1070	26.697	44.099	2.3407
#1	.00120	44.04	-.00346	-.00518	.81495
#2	.00070	43.97	-.00507	-.00272	.78841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.25238**	**.00008**	**-.00000**	**.00013**
Stddev	.00132	.00006	.00016	.00234	.00016
%RSD	366.08	.02261	194.00	61781.	127.34
#1	-.00057	.25242	-.00003	-.00166	.00001
#2	.00129	.25234	.00020	.00165	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-G-5-B@10 Acquired: 8/28/2017 15:31:21 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00239**
Stddev	.00020
%RSD	8.5363
#1	.00224
#2	.00253
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1890.4**	**1502.8**	**58877.**	**4877.8**
Stddev	.4	.3	21.	29.1
%RSD	.02036	.02180	.03628	.59727
#1	1890.6	1502.6	58862.	4857.2
#2	1890.1	1503.0	58892.	4898.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.396%	96.197%	96.640%	100.77%
Range				

Sample Name: 480-123050-G-2-B@5 Acquired: 8/28/2017 15:34:54 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**-.01757**	**.00097**	**.05840**	**.00717**
Stddev	.00001	.00122	.00403	.00141	.00001
%RSD	1.1367	6.9685	416.36	2.4073	.10808
#1	.00055	-.01843	-.00188	.05740	.00717
#2	.00054	-.01670	.00381	.05939	.00718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**98.099**	**.00021**	**-.0080**	**.00019**
Stddev	.00006	.362	.00008	.0096	.00011
%RSD	863.78	.36883	37.022	119.4	58.051
#1	-.00005	97.843	.00015	-.0012	.00026
#2	.00004	98.355	.00026	-.0148	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.00031**	**.00307**	**.58322**	**.00323**
Stddev	.00003	.00028	.00138	.00516	.00120
%RSD	6.5237	91.642	45.046	.88481	36.997
#1	.00044	.00050	.00209	.58687	.00239
#2	.00048	.00011	.00405	.57957	.00408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123050-G-2-B@5 Acquired: 8/28/2017 15:34:54 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.348**	**.17467**	**.00002**	**11.846**	**.00090**
Stddev	.027	.00072	.00044	.036	.00033
%RSD	.14890	.41281	1872.9	.30230	36.721
#1	18.328	.17416	.00034	11.821	.00067
#2	18.367	.17518	-.00029	11.872	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**59.19**	**-.00229**	**-.00300**	**2.0660**
Stddev	.00116	.18	.00036	.00083	.0067
%RSD	27.671	.3091	15.781	27.509	.32363
#1	.00500	59.06	-.00204	-.00242	2.0707
#2	.00337	59.32	-.00255	-.00359	2.0613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.77186**	**-.00040**	**-.00048**	**-.00006**
Stddev	.00056	.00145	.00008	.00106	.00015
%RSD	191.91	.18802	21.176	221.00	239.90
#1	-.00069	.77084	-.00034	-.00123	.00004
#2	.00010	.77289	-.00046	.00027	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123050-G-2-B@5 Acquired: 8/28/2017 15:34:54 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00326**
Stddev	.00172
%RSD	52.795
#1	.00204
#2	.00447
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1835.8**	**1471.5**	**58159.**	**4890.4**
Stddev	.4	2.3	55.	11.3
%RSD	.02357	.15933	.09439	.23070
#1	1835.5	1473.2	58198.	4898.4
#2	1836.1	1469.9	58120.	4882.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.728%	94.195%	95.462%	101.04%
Range				

Sample Name: BLANK Acquired: 8/28/2017 15:38:28 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00022**	**-.00100**	**.00015**	**.00001**
Stddev	.00037	.01655	.00238	.00078	.00001
%RSD	109.01	7480.3	239.08	500.73	103.55
#1	.00061	-.01148	.00069	.00070	.00000
#2	.00008	.01192	-.00268	-.00039	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00291**	**-.00006**	**-.0127**	**-.00005**
Stddev	.00003	.00049	.00011	.0289	.00011
%RSD	46.049	16.994	174.24	228.7	210.30
#1	-.00005	-.00326	-.00014	-.0331	.00002
#2	-.00009	-.00256	.00001	.0078	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00004**	**.00066**	**-.00184**	**-.00004**
Stddev	.00019	.00060	.00303	.00242	.00040
%RSD	38.607	1362.2	459.68	131.61	946.70
#1	.00036	.00038	-.00148	-.00355	.00024
#2	.00064	-.00047	.00280	-.00013	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 15:38:28 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00500**	**.00006**	**.00007**	**-.02251**	**-.00005**
Stddev	.00194	.00001	.00011	.00004	.00043
%RSD	38.833	24.249	156.65	.17906	888.92
#1	.00637	.00005	.00015	-.02248	.00026
#2	.00363	.00007	-.00001	-.02254	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.0024**	**-.00105**	**-.00443**	**-.00648**
Stddev	.00037	.0009	.00217	.00014	.00444
%RSD	418.58	39.03	207.57	3.1811	68.500
#1	-.00035	.0031	.00049	-.00433	-.00962
#2	.00017	.0017	-.00258	-.00453	-.00334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00004**	**-.00011**	**-.00170**	**.00010**
Stddev	.00094	.00009	.00018	.00054	.00006
%RSD	308.63	207.36	164.73	32.071	55.283
#1	.00036	.00010	-.00024	-.00208	.00014
#2	-.00097	-.00002	.00002	-.00131	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 15:38:28 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00094**
Stddev	.00024
%RSD	25.167
#1	-.00110
#2	-.00077
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2030.0**	**1547.8**	**60776.**	**4894.7**
Stddev	2.6	.2	13.	13.6
%RSD	.12603	.01525	.02149	.27882
#1	2028.2	1547.7	60786.	4904.3
#2	2031.8	1548.0	60767.	4885.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.220%	99.078%	99.757%	101.12%
Range				

Sample Name: 480-123131-A-1-A@5 Acquired: 8/28/2017 15:42:05 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.01548**	**.00113**	**.00041**	**.00007**
Stddev	.00006	.01076	.00140	.00031	.00004
%RSD	22.762	69.492	123.59	76.705	49.903
#1	.00022	.00787	.00212	.00063	.00005
#2	.00030	.02309	.00014	.00019	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.02933**	**.00004**	**-.0056**	**-.00011**
Stddev	.00001	.00395	.00004	.0260	.00007
%RSD	147.90	13.462	105.66	466.9	67.648
#1	.00000	.03213	.00001	.0128	-.00016
#2	-.00002	.02654	.00007	-.0240	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00006**	**.00146**	**.02861**	**.00025**
Stddev	.00035	.00025	.00084	.01453	.00128
%RSD	113.18	421.11	57.480	50.791	523.06
#1	.00055	.00012	.00087	.01833	.00115
#2	.00006	-.00024	.00205	.03888	-.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-1-A@5 Acquired: 8/28/2017 15:42:05 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00923**	**.00029**	**.00004**	**1.3223**	**.00055**
Stddev	.00086	.00000	.00008	.0030	.00021
%RSD	9.3163	1.4640	218.17	.22889	38.414
#1	.00984	.00029	-.00002	1.3202	.00070
#2	.00862	.00029	.00009	1.3244	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**19.07**	**-.00179**	**.00287**	**-.01371**
Stddev	.00041	.09	.00082	.00169	.00769
%RSD	60.434	.4869	45.939	59.141	56.096
#1	-.00097	19.14	-.00121	.00167	-.01915
#2	-.00039	19.01	-.00237	.00406	-.00827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00017**	**.00027**	**-.00344**	**.00008**
Stddev	.00031	.00000	.00003	.00074	.00011
%RSD	92.457	2.1181	11.548	21.583	128.79
#1	.00011	.00018	.00024	-.00397	.00016
#2	.00055	.00017	.00029	-.00292	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-1-A@5 Acquired: 8/28/2017 15:42:05 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00065
Stddev	.00084
%RSD	129.78
#1	.00125
#2	.00005
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2031.4	1526.2	60000.	4896.5
Stddev	5.2	3.6	124.	21.6
%RSD	.25717	.23579	.20733	.44129
#1	2027.7	1523.7	60088.	4911.8
#2	2035.1	1528.8	59912.	4881.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.291%	97.694%	98.483%	101.16%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 15:45:42 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50751**	**23.894**	**.50607**	**.50363**	**.49352**	**.50107**	**24.909**	**.50089**
Stddev	.00324	.109	.00117	.00060	.00305	.00175	.085	.00013
%RSD	.63829	.45744	.23209	.11910	.61900	.34902	.34169	.02585
#1	.50980	23.971	.50690	.50321	.49136	.50231	24.970	.50099
#2	.50522	23.816	.50524	.50405	.49568	.49983	24.849	.50080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0035**	**.49096**	**.50073**	**.50310**	**24.677**	**24.982**	**.49758**	**25.079**
Stddev	.0034	.00136	.00379	.00046	.022	.011	.00064	.110
%RSD	97.17	.27685	.75669	.09141	.08863	.04486	.12771	.44016
#1	-.0059	.49000	.50341	.50343	24.692	24.974	.49803	25.157
#2	-.0011	.49192	.49805	.50278	24.661	24.990	.49713	25.001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51269**	**.50248**	**24.707**	**.50090**	**.50028**	**25.33**	**.49903**	**.49725**
Stddev	.00150	.00004	.077	.00204	.00086	.01	.00278	.00263
%RSD	.29241	.00794	.31002	.40724	.17269	.0378	.55673	.52870
#1	.51375	.50245	24.761	.49946	.49967	25.34	.50100	.49539
#2	.51163	.50250	24.653	.50234	.50089	25.32	.49707	.49911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 15:45:42 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.157**	**.51312**	**.49457**	**.49740**	**.50355**	**.49899**	**.50297**
Stddev	.010	.00236	.00160	.00029	.00143	.00337	.00204
%RSD	.04090	.45987	.32428	.05742	.28336	.67610	.40579
#1	24.164	.51479	.49571	.49719	.50254	.50137	.50442
#2	24.150	.51146	.49344	.49760	.50456	.49660	.50153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1829.1**	**1508.8**	**58456.**	**4906.9**
Stddev	2.3	1.2	184.	13.5
%RSD	.12475	.07805	.31503	.27526
#1	1830.7	1508.0	58326.	4897.3
#2	1827.5	1509.6	58587.	4916.4

Sample Name: CCB-4204839 Acquired: 8/28/2017 15:49:11 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00911**	**.00187**	**.00001**	**.00000**	**-.00004**	**-.00116**	**-.00009**
Stddev	.00004	.01311	.00244	.00040	.00001	.00003	.00119	.00009
%RSD	19.964	143.85	130.29	6061.8	297.39	74.005	102.30	102.47
#1	.00018	.00016	.00015	.00029	.00001	-.00006	-.00032	-.00002
#2	.00023	-.01838	.00359	-.00028	-.00000	-.00002	-.00200	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.00002**	**.00041**	**.00015**	**.00096**	**.00179**	**.00011**	**.00042**
Stddev	.0264	.00007	.00053	.00045	.00168	.02822	.00193	.00250
%RSD	4171.	398.26	131.27	301.76	175.50	1578.5	1786.5	595.10
#1	.0193	.00006	.00078	.00047	.00214	-.01817	.00147	.00219
#2	-.0181	-.00003	.00003	-.00017	-.00023	.02174	-.00126	-.00135
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00030**	**-.01879**	**.00001**	**-.00044**	**.0104**	**-.00165**	**.00161**
Stddev	.00005	.00001	.00012	.00004	.00159	.0001	.00281	.00006
%RSD	115.22	2.2388	.66103	737.33	357.62	.8367	170.98	3.4816
#1	-.00008	.00031	-.01887	.00004	-.00157	.0105	-.00364	.00165
#2	-.00001	.00030	-.01870	-.00003	.00068	.0104	.00034	.00157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 15:49:11 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00952**	**.00055**	**.00001**	**-.00008**	**-.00057**	**-.00016**	**.00076**
Stddev	.00632	.00163	.00002	.00011	.00106	.00024	.00056
%RSD	66.422	297.68	307.17	135.32	186.55	153.98	73.783
#1	-.01399	.00170	-.00001	-.00016	.00018	.00001	.00037
#2	-.00505	-.00060	.00002	-.00000	-.00132	-.00033	.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2043.1**	**1554.5**	**60660.**	**4945.8**
Stddev	1.2	.2	79.	32.9
%RSD	.05932	.01184	.13024	.66529
#1	2044.0	1554.6	60716.	4922.6
#2	2042.2	1554.4	60604.	4969.1

Sample Name: CCVL-4209929 Acquired: 8/28/2017 15:52:48 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00632**	**.19050**	W **.00985**	**.02066**	**.00212**	**.00204**	**.50146**
Stddev	.00020	.00942	.00204	.00068	.00002	.00002	.00045
%RSD	3.1628	4.9431	20.698	3.3046	.73276	1.1389	.08994
#1	.00646	.19716	.01129	.02115	.00213	.00202	.50114
#2	.00618	.18384	.00840	.02018	.00211	.00205	.50178
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500				
Range			-30.000%				

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**-.0167**	**.00399**	**.00457**	**.01014**	**.04629**	**.50385**
Stddev	.00014	.0254	.00008	.00012	.00003	.00171	.02860
%RSD	6.3295	152.8	2.0608	2.5838	.32333	3.6987	5.6773
#1	.00227	-.0346	.00393	.00465	.01012	.04750	.48362
#2	.00207	.0013	.00405	.00449	.01016	.04508	.52408
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03015**	**.19909**	**.00299**	**.01044**	**.97925**	**.00980**	**.01199**
Stddev	.00044	.00217	.00001	.00009	.00880	.00004	.00095
%RSD	1.4682	1.0889	.47382	.85586	.89886	.44776	7.8991
#1	.03046	.20063	.00298	.01038	.98548	.00984	.01132
#2	.02984	.19756	.00300	.01050	.97303	.00977	.01266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCVL-4209929 Acquired: 8/28/2017 15:52:48 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2021	.01941	W .01590	.50400	.00892	.00502	.00468
Stddev	.0015	.00149	.00138	.01914	.00016	.00000	.00011
%RSD	.7370	7.6549	8.6816	3.7967	1.7796	.05161	2.4382
#1	.2011	.02046	.01688	.49047	.00881	.00502	.00460
#2	.2032	.01836	.01492	.51753	.00904	.00502	.00476
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.02500				
Range			-30.000%				

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.01783	.00520	.00993
Stddev	.00125	.00011	.00038
%RSD	6.9978	2.1628	3.8515
#1	.01871	.00528	.01020
#2	.01695	.00512	.00966
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2031.9	1558.3	61240.	5005.3
Stddev	3.8	.9	217.	34.5
%RSD	.18778	.05752	.35373	.68905
#1	2034.6	1557.7	61087.	4980.9
#2	2029.2	1558.9	61394.	5029.7

Sample Name: 480-123131-A-2-A@5 Acquired: 8/28/2017 15:56:25 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00790**	**.00299**	**-.00037**	**.00007**
Stddev	.00013	.01129	.00494	.00098	.00000
%RSD	30.521	142.79	165.34	264.59	4.5928
#1	.00053	.01588	.00648	.00032	.00007
#2	.00034	-.00008	-.00051	-.00107	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.03098**	**-.00003**	**-.0125**	**-.00004**
Stddev	.00011	.00042	.00008	.0052	.00002
%RSD	243.39	1.3671	251.04	41.81	46.678
#1	-.00012	.03128	-.00009	-.0088	-.00003
#2	.00003	.03068	.00002	-.0162	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.00016**	**.00327**	**.01353**	**.00109**
Stddev	.00020	.00031	.00285	.01399	.00161
%RSD	28.121	199.88	87.056	103.42	147.37
#1	.00085	.00006	.00126	.00363	-.00005
#2	.00057	-.00038	.00529	.02342	.00223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-2-A@5 Acquired: 8/28/2017 15:56:25 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00790**	**.00024**	**.00025**	**1.3322**	**.00058**
Stddev	.00182	.00003	.00001	.0022	.00016
%RSD	23.009	13.474	5.3195	.16255	28.443
#1	.00919	.00026	.00026	1.3337	.00069
#2	.00662	.00021	.00024	1.3306	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00115**	**19.17**	**.00051**	**.00036**	**-.00849**
Stddev	.00035	.15	.00006	.00350	.02564
%RSD	30.495	.7702	11.421	961.58	301.97
#1	-.00140	19.28	.00047	.00284	-.02663
#2	-.00090	19.07	.00055	-.00211	.00964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00020**	**.00051**	**-.00424**	**-.00010**
Stddev	.00025	.00005	.00007	.00136	.00030
%RSD	75.536	23.409	13.611	32.107	308.64
#1	.00015	.00024	.00056	-.00328	-.00031
#2	.00051	.00017	.00046	-.00521	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-2-A@5 Acquired: 8/28/2017 15:56:25 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00006
Stddev	.00083
%RSD	1446.9
#1	-.00053
#2	.00065
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2032.8	1527.4	60305.	4996.7
Stddev	5.1	4.6	27.	13.8
%RSD	.25010	.30066	.04505	.27702
#1	2029.2	1524.2	60325.	5006.4
#2	2036.4	1530.7	60286.	4986.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.357%	97.773%	98.984%	103.23%
Range				

Sample Name: 480-123131-A-4-A@5 Acquired: 8/28/2017 16:00:00 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00080**	**-.00047**	**-.00038**	**.00005**
Stddev	.00003	.00199	.00073	.00016	.00001
%RSD	8.5282	247.71	152.96	43.106	17.317
#1	.00030	-.00221	.00004	-.00026	.00004
#2	.00034	.00060	-.00099	-.00049	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.02156**	**.00014**	**-.0212**	**.00008**
Stddev	.00005	.00404	.00004	.0124	.00032
%RSD	579.20	18.746	30.084	58.29	395.12
#1	-.00004	.02442	.00016	-.0125	.00031
#2	.00003	.01870	.00011	-.0300	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00031**	**.00114**	**.03405**	**-.00108**
Stddev	.00051	.00005	.00182	.02686	.00061
%RSD	170.96	17.152	159.70	78.879	56.479
#1	-.00006	.00027	.00242	.05304	-.00065
#2	.00066	.00035	-.00015	.01506	-.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-4-A@5 Acquired: 8/28/2017 16:00:00 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00910**	**.00020**	**.00024**	**1.3275**	**.00057**
Stddev	.00283	.00004	.00008	.0039	.00021
%RSD	31.135	18.409	32.419	.28979	37.160
#1	.01111	.00018	.00019	1.3248	.00042
#2	.00710	.00023	.00030	1.3303	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**19.09**	**-.00081**	**.00130**	**.00442**
Stddev	.00008	.19	.00105	.00271	.00172
%RSD	27.915	.9729	129.35	207.62	38.834
#1	.00024	19.22	-.00155	.00322	.00563
#2	.00036	18.96	-.00007	-.00061	.00320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00026**	**.00033**	**-.00219**	**.00015**
Stddev	.00036	.00006	.00012	.00059	.00021
%RSD	107.90	24.344	37.177	27.086	138.62
#1	.00059	.00030	.00024	-.00261	.00000
#2	.00008	.00021	.00041	-.00177	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-4-A@5 Acquired: 8/28/2017 16:00:00 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00045
Stddev	.00009
%RSD	21.090
#1	.00052
#2	.00038
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2029.9	1524.1	60414.	4999.6
Stddev	2.8	4.7	14.	14.2
%RSD	.13686	.30646	.02276	.28440
#1	2028.0	1520.8	60424.	4989.5
#2	2031.9	1527.4	60404.	5009.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.217%	97.561%	99.163%	103.29%
Range				

Sample Name: 480-123131-A-5-A@5 Acquired: 8/28/2017 16:03:36 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.02124**	**-.00178**	**.00066**	**.00008**
Stddev	.00089	.02117	.00298	.00067	.00001
%RSD	117.18	99.679	167.26	101.41	11.853
#1	.00013	.03621	.00033	.00113	.00007
#2	.00139	.00627	-.00389	.00019	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.03628**	**.00009**	**.0074**	**-.00022**
Stddev	.00001	.00063	.00019	.0140	.00005
%RSD	20.076	1.7407	210.21	190.4	20.597
#1	-.00004	.03583	-.00004	.0173	-.00019
#2	-.00003	.03672	.00022	-.0025	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**-.00011**	**.00331**	**.01045**	**.00062**
Stddev	.00016	.00012	.00023	.00383	.00019
%RSD	25.201	114.05	7.0276	36.699	30.915
#1	.00075	-.00019	.00315	.00774	.00049
#2	.00052	-.00002	.00348	.01316	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-5-A@5 Acquired: 8/28/2017 16:03:36 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00832**	**.00027**	**.00025**	**1.3231**	**.00043**
Stddev	.00165	.00008	.00029	.0019	.00037
%RSD	19.823	28.887	115.11	.14635	86.922
#1	.00716	.00032	.00005	1.3217	.00069
#2	.00949	.00021	.00045	1.3244	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**19.18**	**-.00053**	**.00378**	**-.00268**
Stddev	.00030	.23	.00012	.00085	.01259
%RSD	1302.2	1.179	23.095	22.389	470.32
#1	-.00019	19.34	-.00044	.00438	.00623
#2	.00023	19.02	-.00062	.00318	-.01158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00021**	**.00044**	**-.00274**	**.00009**
Stddev	.00080	.00002	.00017	.00259	.00017
%RSD	143.92	11.304	38.470	94.363	189.90
#1	.00112	.00022	.00032	-.00458	.00021
#2	-.00001	.00019	.00055	-.00091	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-5-A@5 Acquired: 8/28/2017 16:03:36 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00101
Stddev	.00048
%RSD	47.366
#1	.00135
#2	.00067
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2028.9	1525.0	60152.	4929.1
Stddev	2.6	2.6	3.	11.2
%RSD	.12757	.16773	.00475	.22654
#1	2027.1	1523.2	60154.	4937.0
#2	2030.7	1526.8	60150.	4921.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.167%	97.618%	98.732%	101.83%
Range				

Sample Name: 480-123131-A-6-A@5 Acquired: 8/28/2017 16:07:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**-.00171**	**-.00023**	**.00052**	**.00007**
Stddev	.00015	.02665	.00235	.00038	.00000
%RSD	33.269	1557.9	1008.0	72.915	3.7456
#1	.00033	.01713	.00143	.00079	.00007
#2	.00054	-.02055	-.00189	.00025	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.03542**	**.00018**	**-.0080**	**-.00015**
Stddev	.00005	.00081	.00006	.0183	.00007
%RSD	105.93	2.2736	32.495	228.8	50.269
#1	-.00008	.03599	.00023	-.0210	-.00020
#2	-.00001	.03485	.00014	.0049	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00025**	**.00445**	**.02674**	**.00048**
Stddev	.00015	.00023	.00203	.00697	.00031
%RSD	51.322	90.685	45.459	26.074	64.633
#1	.00039	.00042	.00302	.03167	.00026
#2	.00018	.00009	.00589	.02181	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-6-A@5 Acquired: 8/28/2017 16:07:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00667**	**.00030**	**.00015**	**1.3270**	**.00046**
Stddev	.00180	.00004	.00014	.0100	.00006
%RSD	27.006	14.722	90.786	.75471	13.084
#1	.00794	.00027	.00025	1.3340	.00051
#2	.00539	.00033	.00005	1.3199	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**19.20**	**-.00008**	**.00878**	**-.00826**
Stddev	.00039	.14	.00082	.00485	.01249
%RSD	14634.	.7200	1035.0	55.262	151.17
#1	-.00027	19.30	.00050	.00535	-.01709
#2	.00028	19.10	-.00066	.01222	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00019**	**.00023**	**-.00430**	**-.00001**
Stddev	.00072	.00002	.00013	.00010	.00029
%RSD	164.67	11.221	56.824	2.3732	2253.7
#1	-.00007	.00017	.00014	-.00437	-.00022
#2	.00094	.00020	.00032	-.00423	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-6-A@5 Acquired: 8/28/2017 16:07:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00021
Stddev	.00040
%RSD	192.05
#1	-.00007
#2	.00049
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2023.7	1524.0	60241.	4932.8
Stddev	1.7	.9	10.	5.2
%RSD	.08175	.05620	.01719	.10596
#1	2022.5	1523.4	60248.	4929.1
#2	2024.8	1524.6	60233.	4936.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.912%	97.553%	98.878%	101.91%
Range				

Sample Name: 480-123131-A-7-A@5 Acquired: 8/28/2017 16:10:48 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.01503**	**-.00011**	**.00058**	**.00009**
Stddev	.00034	.02025	.00056	.00107	.00001
%RSD	141.86	134.76	521.16	185.39	8.7268
#1	-.00000	-.02935	-.00050	-.00018	.00010
#2	.00048	-.00071	.00029	.00134	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.02447**	**-.00006**	**-.0023**	**-.00006**
Stddev	.00000	.00056	.00010	.0288	.00005
%RSD	2.0773	2.2915	176.20	1254.	83.546
#1	-.00002	.02407	.00001	.0180	-.00003
#2	-.00002	.02487	-.00012	-.0226	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00014**	**.00523**	**.03876**	**.00037**
Stddev	.00046	.00005	.00183	.01607	.00006
%RSD	55.525	36.794	34.901	41.457	16.135
#1	.00114	.00010	.00652	.02739	.00041
#2	.00050	.00018	.00394	.05012	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-7-A@5 Acquired: 8/28/2017 16:10:48 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00695**	**.00023**	**.00013**	**1.3383**	**.00022**
Stddev	.00371	.00006	.00007	.0077	.00025
%RSD	53.339	24.165	57.486	.57643	115.59
#1	.00957	.00019	.00008	1.3329	.00004
#2	.00433	.00027	.00018	1.3438	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**19.12**	**.00035**	**.00525**	**.00447**
Stddev	.00213	.22	.00033	.00381	.01004
%RSD	153.90	1.131	93.276	72.660	224.63
#1	-.00012	19.27	.00058	.00255	.01156
#2	.00289	18.97	.00012	.00794	-.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00023**	**.00045**	**-.00251**	**-.00018**
Stddev	.00034	.00006	.00044	.00203	.00005
%RSD	121.14	24.169	97.933	81.131	28.828
#1	.00004	.00019	.00077	-.00395	-.00022
#2	.00052	.00027	.00014	-.00107	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-7-A@5 Acquired: 8/28/2017 16:10:48 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00136
Stddev	.00100
%RSD	73.214
#1	.00066
#2	.00207
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2021.1	1526.7	59885.	4911.7
Stddev	2.0	2.1	209.	29.0
%RSD	.09917	.13542	.34829	.59013
#1	2019.7	1525.2	60033.	4932.2
#2	2022.5	1528.1	59738.	4891.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.787%	97.724%	98.295%	101.47%
Range				

Sample Name: 480-123131-A-8-A@5 Acquired: 8/28/2017 16:14:24 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.02872**	**.00558**	**.00003**	**.00009**
Stddev	.00002	.01421	.00227	.00052	.00000
%RSD	43.886	49.458	40.695	1535.8	2.2221
#1	.00003	.03877	.00718	.00040	.00009
#2	.00006	.01868	.00397	-.00033	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.02396**	**.00007**	**.0086**	**-.00008**
Stddev	.00003	.00077	.00006	.0046	.00011
%RSD	29.275	3.2140	90.321	53.63	140.24
#1	-.00013	.02450	.00012	.0119	-.00000
#2	-.00009	.02341	.00003	.0053	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00040**	**.00683**	**.04080**	**-.00003**
Stddev	.00016	.00040	.00198	.01567	.00025
%RSD	63.945	98.232	29.038	38.405	713.19
#1	.00036	.00012	.00823	.05187	.00014
#2	.00014	.00068	.00542	.02972	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-8-A@5 Acquired: 8/28/2017 16:14:24 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00641**	**.00040**	**-.00001**	**1.3328**	**.00013**
Stddev	.00281	.00003	.00020	.0030	.00028
%RSD	43.832	8.1242	2814.3	.22583	221.75
#1	.00839	.00042	.00013	1.3349	.00032
#2	.00442	.00037	-.00015	1.3307	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**19.05**	**.00030**	**.00496**	**.00021**
Stddev	.00076	.19	.00186	.00262	.01742
%RSD	291.47	.9713	620.36	52.945	8389.9
#1	-.00028	19.18	-.00102	.00681	.01252
#2	.00080	18.91	.00162	.00310	-.01211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00018**	**.00013**	**-.00352**	**.00014**
Stddev	.00005	.00002	.00017	.00216	.00019
%RSD	45.391	9.2925	129.86	61.333	136.13
#1	.00016	.00017	.00001	-.00200	.00028
#2	.00008	.00019	.00026	-.00505	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123131-A-8-A@5 Acquired: 8/28/2017 16:14:24 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00038
Stddev	.00074
%RSD	196.72
#1	-.00015
#2	.00090
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2027.3	1527.9	60232.	4931.1
Stddev	.2	.3	177.	29.6
%RSD	.01205	.02123	.29326	.60000
#1	2027.1	1528.2	60107.	4910.1
#2	2027.5	1527.7	60357.	4952.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.089%	97.806%	98.863%	101.87%
Range				

Sample Name: 480-123019-G-1-B@2 Acquired: 8/28/2017 16:17:59 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.04471**	**.02832**	**.13382**	**.04231**
Stddev	.00007	.02108	.00433	.00196	.00006
%RSD	237.09	47.156	15.287	1.4683	.14464
#1	.00008	.02980	.02526	.13243	.04227
#2	-.00002	.05962	.03138	.13521	.04235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**127.05**	**.00019**	**-.0096**	**-.00014**
Stddev	.00004	.12	.00009	.0132	.00019
%RSD	48.700	.09422	47.572	137.2	130.77
#1	-.00006	127.13	.00026	-.0003	-.00027
#2	-.00012	126.96	.00013	-.0189	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00013**	**3.7381**	**5.1188**	**.00795**
Stddev	.00019	.00009	.0069	.0077	.00038
%RSD	96.076	70.718	.18585	.15146	4.7463
#1	.00007	.00019	3.7430	5.1133	.00768
#2	.00034	.00006	3.7332	5.1243	.00822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-G-1-B@2 Acquired: 8/28/2017 16:17:59 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.887**	**.24087**	**.00148**	**14.173**	**-.00019**
Stddev	.017	.00070	.00025	.003	.00036
%RSD	.07224	.29092	16.705	.02226	185.33
#1	23.899	.24137	.00165	14.170	.00006
#2	23.875	.24038	.00130	14.175	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00270**	**54.30**	**-.00497**	**-.00874**	**9.1782**
Stddev	.00040	.15	.00184	.00383	.0360
%RSD	14.686	.2816	36.972	43.808	.39238
#1	.00242	54.20	-.00367	-.01144	9.2037
#2	.00298	54.41	-.00627	-.00603	9.1527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.49648**	**.00003**	**-.00095**	**-.00001**
Stddev	.00094	.00054	.00020	.00035	.00006
%RSD	266.52	.10798	620.99	36.276	426.41
#1	-.00031	.49610	-.00011	-.00071	.00003
#2	.00102	.49686	.00017	-.00120	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-G-1-B@2 Acquired: 8/28/2017 16:17:59 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00411
Stddev	.00013
%RSD	3.1736
#1	.00420
#2	.00402
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1802.3	1459.9	57286.	4867.0
Stddev	.8	1.9	72.	19.1
%RSD	.04410	.13183	.12646	.39241
#1	1801.7	1458.5	57337.	4853.5
#2	1802.8	1461.3	57235.	4880.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.091%	93.449%	94.028%	100.55%
Range				

Sample Name: 480-123019-H-2-B@10 Acquired: 8/28/2017 16:21:31 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00113**	**-.00243**	**.08490**	**.00484**
Stddev	.00064	.00743	.00306	.00019	.00001
%RSD	779.20	655.43	125.99	.22932	.21326
#1	.00054	-.00412	-.00027	.08504	.00485
#2	-.00037	.00639	-.00459	.08476	.00483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**34.288**	**.00034**	**-.0138**	**.00008**
Stddev	.00001	.030	.00018	.0237	.00018
%RSD	1377.4	.08741	53.758	171.1	214.31
#1	-.00000	34.267	.00047	-.0306	.00021
#2	.00000	34.309	.00021	.0029	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.00017**	**.06531**	**3.2858**	**.00346**
Stddev	.00027	.00031	.00153	.0212	.00030
%RSD	41.394	186.42	2.3469	.64413	8.5725
#1	.00083	.00039	.06423	3.3007	.00325
#2	.00046	-.00005	.06640	3.2708	.00367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-H-2-B@10 Acquired: 8/28/2017 16:21:31 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.933**	**.07732**	**.00023**	**50.681**	**.00131**
Stddev	.041	.00004	.00001	.131	.00028
%RSD	.14084	.05482	6.1565	.25890	21.085
#1	28.962	.07729	.00024	50.773	.00150
#2	28.904	.07735	.00022	50.588	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**49.16**	**-.00034**	**-.00630**	**1.1662**
Stddev	.00054	.04	.00230	.00422	.0229
%RSD	160.59	.0853	675.10	67.043	1.9663
#1	-.00005	49.13	-.00197	-.00331	1.1500
#2	.00072	49.19	.00129	-.00929	1.1825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.19883**	**.00005**	**-.00110**	**.00018**
Stddev	.00087	.00029	.00003	.00062	.00034
%RSD	683.61	.14337	53.318	56.316	187.09
#1	-.00049	.19863	.00007	-.00066	.00042
#2	.00074	.19903	.00003	-.00154	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-H-2-B@10 Acquired: 8/28/2017 16:21:31 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00052
Stddev	.00082
%RSD	157.85
#1	.00110
#2	-.00006
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1834.8	1485.8	57783.	4838.5
Stddev	4.5	.1	177.	4.4
%RSD	.24295	.00712	.30700	.09021
#1	1831.7	1485.8	57658.	4841.6
#2	1838.0	1485.9	57909.	4835.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.681%	95.111%	94.845%	99.962%
Range				

Sample Name: 480-123019-H-3-B@2 Acquired: 8/28/2017 16:25:05 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.01147**	**.01332**	**.77368**	**.07472**
Stddev	.00057	.00141	.00161	.00325	.00017
%RSD	419.21	12.246	12.104	.42011	.22825
#1	-.00027	.01247	.01218	.77138	.07484
#2	.00054	.01048	.01446	.77598	.07460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**102.78**	**.00040**	**-.0051**	**.00087**
Stddev	.00003	.03	.00003	.0195	.00006
%RSD	36.179	.02620	6.6745	380.9	7.1109
#1	-.00011	102.76	.00042	.0087	.00092
#2	-.00007	102.80	.00039	-.0189	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00011**	**4.2942**	**6.2433**	**.00885**
Stddev	.00037	.00026	.0057	.0105	.00057
%RSD	116.62	232.14	.13383	.16789	6.4841
#1	.00058	-.00007	4.2901	6.2507	.00925
#2	.00006	.00030	4.2982	6.2359	.00844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-H-3-B@2 Acquired: 8/28/2017 16:25:05 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.331**	**.26101**	**.00170**	**99.698**	**.00234**
Stddev	.098	.00002	.00006	.075	.00024
%RSD	.11236	.00957	3.4265	.07491	10.289
#1	87.401	.26103	.00166	99.751	.00251
#2	87.262	.26099	.00174	99.645	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00132**	**57.47**	**-.00204**	**-.01216**	**7.0727**
Stddev	.00036	.00	.00088	.00530	.0152
%RSD	26.990	.0038	42.917	43.552	.21471
#1	.00106	57.47	-.00142	-.00842	7.0834
#2	.00157	57.47	-.00266	-.01591	7.0620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.70477**	**-.00012**	**-.00071**	**.00100**
Stddev	.00067	.00054	.00017	.00129	.00045
%RSD	508.55	.07651	149.19	180.58	45.347
#1	.00034	.70439	-.00024	.00020	.00132
#2	-.00061	.70515	.00001	-.00163	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-H-3-B@2 Acquired: 8/28/2017 16:25:05 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00525
Stddev	.00117
%RSD	22.349
#1	.00608
#2	.00442
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1721.0	1432.7	55976.	4855.7
Stddev	2.8	.5	42.	7.4
%RSD	.16384	.03273	.07538	.15240
#1	1723.0	1433.1	55946.	4850.4
#2	1719.0	1432.4	56006.	4860.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.119%	91.711%	91.878%	100.32%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:28:38 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50789**	**24.094**	**.50088**	**.50312**	**.49560**	**.50114**	**24.988**	**.50048**
Stddev	.00087	.029	.00642	.00016	.00080	.00121	.021	.00059
%RSD	.17040	.12208	1.2816	.03239	.16085	.24176	.08457	.11690
#1	.50728	24.115	.49634	.50300	.49617	.50028	24.973	.50006
#2	.50850	24.073	.50542	.50323	.49504	.50199	25.003	.50089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0172**	**.49130**	**.50448**	**.50364**	**24.622**	**25.022**	**.49639**	**25.105**
Stddev	.0189	.00107	.00123	.00173	.011	.027	.00016	.060
%RSD	110.3	.21817	.24455	.34326	.04318	.10595	.03245	.23954
#1	-.0038	.49054	.50360	.50486	24.629	25.041	.49650	25.063
#2	-.0306	.49205	.50535	.50242	24.614	25.003	.49627	25.148
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51346**	**.50263**	**24.857**	**.50201**	**.50097**	**25.21**	**.49974**	**.50208**
Stddev	.00129	.00071	.027	.00038	.00019	.03	.00106	.00389
%RSD	.25065	.14084	.10738	.07599	.03857	.1050	.21252	.77391
#1	.51255	.50213	24.838	.50228	.50111	25.19	.49899	.49933
#2	.51437	.50313	24.876	.50174	.50083	25.23	.50049	.50483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:28:38 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.330**	**.51493**	**.49606**	**.49959**	**.50243**	**.50079**	**.50492**
Stddev	.024	.00091	.00006	.00105	.00091	.00064	.00195
%RSD	.09869	.17666	.01178	.21108	.18133	.12787	.38645
#1	24.347	.51429	.49602	.49884	.50308	.50125	.50354
#2	24.313	.51558	.49610	.50033	.50179	.50034	.50630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1830.7**	**1513.0**	**58192.**	**4867.2**
Stddev	1.7	.9	92.	13.8
%RSD	.09250	.05788	.15743	.28433
#1	1829.5	1512.4	58257.	4877.0
#2	1831.9	1513.6	58128.	4857.4

Sample Name: CCB-4204839 Acquired: 8/28/2017 16:32:07 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**-.01452**	**-.00071**	**-.00053**	**.00000**	**-.00008**	**-.00067**	**.00009**
Stddev	.00034	.00783	.00033	.00013	.00000	.00002	.00019	.00000
%RSD	94.281	53.946	46.787	24.231	95.354	20.062	27.972	1.4342
#1	.00012	-.02005	-.00094	-.00044	.00000	-.00007	-.00054	.00009
#2	.00061	-.00898	-.00047	-.00062	.00000	-.00010	-.00081	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0148**	**-.00008**	**.00010**	**-.00004**	**.00161**	**.02160**	**.00001**	**.00138**
Stddev	.0164	.00001	.00026	.00006	.00189	.00170	.00007	.00472
%RSD	110.3	13.331	255.96	132.55	117.18	7.8900	695.14	342.30
#1	-.0264	-.00007	.00029	-.00000	.00028	.02039	-.00004	.00472
#2	-.0033	-.00009	-.00008	-.00008	.00295	.02280	.00006	-.00196
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00019**	**-.01154**	**-.00010**	**-.00038**	**.0042**	**.00189**	**-.00295**
Stddev	.00000	.00001	.00075	.00027	.00084	.0026	.00292	.00017
%RSD	11.074	5.8352	6.4635	271.35	221.56	62.92	154.88	5.7628
#1	.00003	.00018	-.01207	.00009	.00022	.0061	.00395	-.00307
#2	.00004	.00019	-.01101	-.00029	-.00097	.0023	-.00018	-.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 16:32:07 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00246**	**-.00043**	**.00003**	**-.00015**	**.00004**	**-.00000**	**.00095**
Stddev	.00594	.00037	.00001	.00020	.00098	.00007	.00041
%RSD	241.36	85.520	27.203	135.80	2761.9	2421.2	42.767
#1	-.00174	-.00069	.00004	-.00001	-.00066	-.00005	.00066
#2	.00667	-.00017	.00003	-.00029	.00073	.00004	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2046.7**	**1557.5**	**60851.**	**4893.4**
Stddev	.7	1.2	21.	17.3
%RSD	.03562	.07415	.03433	.35343
#1	2046.2	1558.3	60866.	4881.2
#2	2047.2	1556.7	60836.	4905.6

Sample Name: CCVL-4209929 Acquired: 8/28/2017 16:35:44 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00628**	**.18469**	**.01050**	**.01972**	**.00215**	**.00205**	**.50341**	**.00212**
Stddev	.00019	.01086	.00122	.00006	.00001	.00001	.00544	.00002
%RSD	3.0977	5.8798	11.647	.31830	.23320	.40446	1.0803	1.0850
#1	.00614	.17702	.00964	.01968	.00215	.00206	.50725	.00210
#2	.00642	.19237	.01137	.01977	.00215	.00205	.49956	.00213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0036**	**.00384**	**.00427**	**.00992**	**.05105**	**.51095**	**.02904**	**.20555**
Stddev	.0215	.00005	.00002	.00007	.00279	.00896	.00083	.00147
%RSD	601.9	1.2667	.39626	.68556	5.4722	1.7530	2.8605	.71390
#1	.0116	.00387	.00428	.00987	.05302	.51728	.02845	.20452
#2	-.0187	.00380	.00426	.00996	.04907	.50462	.02963	.20659
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00309**	**.01017**	**1.0015**	**.00998**	**.00986**	**.1988**	**.01924**	**.02129**
Stddev	.00002	.00008	.0050	.00023	.00049	.0115	.00281	.00216
%RSD	.51023	.75842	.49708	2.3118	4.9901	5.802	14.590	10.131
#1	.00310	.01011	.99798	.01014	.00951	.1907	.02123	.01976
#2	.00308	.01022	1.0050	.00982	.01020	.2070	.01726	.02281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-4209929 Acquired: 8/28/2017 16:35:44 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48871**	**.00880**	**.00503**	**.00492**	**.01803**	**.00485**	**.01027**
Stddev	.00346	.00084	.00003	.00015	.00147	.00003	.00025
%RSD	.70747	9.5461	.52218	3.0641	8.1415	.56360	2.4046
#1	.48626	.00821	.00504	.00503	.01699	.00487	.01010
#2	.49115	.00940	.00501	.00481	.01907	.00483	.01045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2030.3**	**1555.4**	**60786.**	**4926.3**
Stddev	9.1	6.9	50.	19.5
%RSD	.44602	.44652	.08231	.39521
#1	2023.9	1550.5	60751.	4912.5
#2	2036.7	1560.3	60822.	4940.0

Sample Name: 480-123019-G-4-B@2 Acquired: 8/28/2017 16:39:21 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.06217**	**-.00113**	**.40068**	**.01572**
Stddev	.00015	.00009	.00580	.00105	.00004
%RSD	826.78	.14065	514.92	.26208	.22499
#1	.00009	.06223	.00298	.40142	.01574
#2	-.00012	.06211	-.00523	.39993	.01569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**91.866**	**.00033**	**-.0042**	**.00023**
Stddev	.00004	.159	.00002	.0312	.00026
%RSD	76.031	.17295	6.9203	750.5	113.83
#1	-.00003	91.979	.00034	-.0263	.00005
#2	-.00009	91.754	.00031	.0179	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00098**	**.00014**	**.16650**	**1.9853**	**.00767**
Stddev	.00034	.00026	.00025	.0001	.00015
%RSD	34.991	181.50	.14918	.00651	1.9467
#1	.00122	-.00004	.16632	1.9852	.00778
#2	.00073	.00033	.16667	1.9854	.00757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-G-4-B@2 Acquired: 8/28/2017 16:39:21 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.766**	**.13512**	**.00126**	**33.813**	**.00077**
Stddev	.030	.00019	.00016	.022	.00016
%RSD	.08985	.14305	12.889	.06593	21.441
#1	33.788	.13526	.00138	33.797	.00065
#2	33.745	.13499	.00115	33.829	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00259**	**50.54**	**-.00178**	**-.00603**	**4.5572**
Stddev	.00099	.01	.00148	.00429	.0000
%RSD	38.464	.0282	82.883	71.120	.00011
#1	.00329	50.53	-.00283	-.00300	4.5572
#2	.00188	50.55	-.00074	-.00906	4.5572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.38671**	**-.00025**	**-.00059**	**.00010**
Stddev	.00138	.00054	.00017	.00194	.00012
%RSD	170.50	.13835	67.446	330.95	125.49
#1	-.00178	.38633	-.00013	-.00196	.00001
#2	.00017	.38709	-.00037	.00079	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-G-4-B@2 Acquired: 8/28/2017 16:39:21 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00399
Stddev	.00145
%RSD	36.370
#1	.00296
#2	.00501
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1801.7	1464.7	57631.	4919.6
Stddev	.6	.9	115.	12.9
%RSD	.03493	.06377	.20019	.26305
#1	1802.1	1464.0	57550.	4910.4
#2	1801.2	1465.3	57713.	4928.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.061%	93.755%	94.595%	101.64%
Range				

Sample Name: 480-123019-H-5-B@10 Acquired: 8/28/2017 16:42:54 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.01979**	**-.00239**	**.07671**	**.00341**
Stddev	.00025	.00771	.00255	.00045	.00000
%RSD	234.58	38.982	106.85	.58387	.05819
#1	-.00007	.01433	-.00058	.07703	.00341
#2	.00028	.02524	-.00420	.07640	.00341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**63.098**	**.00020**	**-.0104**	**-.00004**
Stddev	.00006	.042	.00000	.0313	.00024
%RSD	209.92	.06723	1.5927	300.4	679.78
#1	-.00007	63.068	.00020	.0117	.00014
#2	.00001	63.128	.00021	-.0325	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00005**	**.36975**	**1.2172**	**.00191**
Stddev	.00010	.00024	.00254	.0117	.00111
%RSD	21.334	517.83	.68781	.96489	58.112
#1	.00056	.00022	.37155	1.2089	.00270
#2	.00041	-.00012	.36795	1.2255	.00113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-H-5-B@10 Acquired: 8/28/2017 16:42:54 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.985**	**.13242**	**.00029**	**4.4669**	**.00005**
Stddev	.047	.00001	.00003	.0087	.00016
%RSD	.36373	.01059	9.3103	.19491	316.66
#1	13.018	.13241	.00027	4.4731	-.00006
#2	12.951	.13243	.00031	4.4608	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**46.68**	**-.00179**	**-.00171**	**.88716**
Stddev	.00057	.22	.00107	.00561	.01327
%RSD	149.86	.4738	59.574	327.93	1.4954
#1	-.00002	46.83	-.00104	-.00567	.87778
#2	.00079	46.52	-.00254	.00225	.89654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.26562**	**.00001**	**-.00096**	**-.00005**
Stddev	.00026	.00050	.00012	.00019	.00026
%RSD	147.87	.18663	1104.3	19.503	553.44
#1	.00001	.26598	-.00007	-.00109	-.00023
#2	-.00037	.26527	.00010	-.00083	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123019-H-5-B@10 Acquired: 8/28/2017 16:42:54 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00426**
Stddev	.00007
%RSD	1.5570
#1	.00430
#2	.00421
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1886.6**	**1498.3**	**58483.**	**4878.5**
Stddev	2.6	4.7	3.	8.2
%RSD	.13766	.31181	.00472	.16793
#1	1884.8	1495.0	58485.	4884.3
#2	1888.5	1501.6	58481.	4872.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.213%	95.910%	95.992%	100.79%
Range				

Sample Name: 480-123050-H-2-B@5 Acquired: 8/28/2017 16:46:28 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.04284**	F **-.01609**	**.05948**	**.00755**
Stddev	.00018	.00860	.01631	.00025	.00001
%RSD	197.74	20.065	101.40	.41798	.07343
#1	.00004	.04892	-.02762	.05931	.00755
#2	-.00022	.03677	-.00455	.05966	.00754
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			4.5000		
Low Limit			-.01500		

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**102.27**	**.00051**	**-.0163**	**.00008**
Stddev	.00006	.16	.00029	.0222	.00004
%RSD	108.15	.16127	56.007	136.6	46.698
#1	-.00001	102.39	.00071	-.0320	.00005
#2	-.00010	102.16	.00031	-.0005	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00019**	**.16659**	**.59921**	**.00383**
Stddev	.00027	.00000	.00035	.00007	.00092
%RSD	89.521	2.4218	.20722	.01121	24.020
#1	.00049	.00019	.16684	.59916	.00448
#2	.00011	.00018	.16635	.59926	.00318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123050-H-2-B@5 Acquired: 8/28/2017 16:46:28 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.032**	**.15853**	**.00027**	**12.392**	**.00025**
Stddev	.036	.00023	.00001	.031	.00033
%RSD	.19118	.14547	5.0170	.25367	130.45
#1	19.006	.15837	.00028	12.414	.00048
#2	19.058	.15870	.00026	12.369	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00315**	**60.45**	**-.00214**	**-.00844**	**2.1956**
Stddev	.00004	.05	.00096	.00212	.0034
%RSD	1.2492	.0810	44.769	25.168	.15479
#1	.00318	60.48	-.00282	-.00694	2.1980
#2	.00312	60.41	-.00147	-.00994	2.1932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.80908**	**.00010**	**-.00201**	**.00002**
Stddev	.00021	.00080	.00017	.00103	.00008
%RSD	33.992	.09943	169.54	51.092	371.91
#1	.00076	.80965	.00022	-.00129	.00007
#2	.00047	.80851	-.00002	-.00274	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123050-H-2-B@5 Acquired: 8/28/2017 16:46:28 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00016
Stddev	.00088
%RSD	568.78
#1	-.00047
#2	.00078
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1833.2	1476.9	57631.	4848.4
Stddev	.2	.4	106.	13.7
%RSD	.00886	.02905	.18445	.28344
#1	1833.3	1476.6	57556.	4838.7
#2	1833.1	1477.2	57707.	4858.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.603%	94.537%	94.595%	100.17%
Range				

Sample Name: 480-123052-E-1-A Acquired: 8/28/2017 16:50:01 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**.96817**	**.00669**	**.12569**	**.44496**
Stddev	.00054	.01531	.00453	.00095	.00074
%RSD	33.647	1.5808	67.612	.75779	.16543
#1	.00121	.97900	.00989	.12636	.44444
#2	.00197	.95735	.00349	.12501	.44548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**107.91**	**.00181**	**-.0219**	**.00558**
Stddev	.00011	.28	.00015	.0148	.00027
%RSD	344.69	.25873	8.0103	67.64	4.8897
#1	-.00004	107.72	.00171	-.0323	.00577
#2	.00011	108.11	.00192	-.0114	.00539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00442**	**.01937**	**252.37**	**20.223**	**.02577**
Stddev	.00029	.00036	1.42	.091	.00028
%RSD	6.4650	1.8847	.56218	.44932	1.0794
#1	.00421	.01962	251.37	20.159	.02596
#2	.00462	.01911	253.38	20.287	.02557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123052-E-1-A Acquired: 8/28/2017 16:50:01 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.886**	**5.5063**	**.00079**	**2385.8**	**.01144**
Stddev	.034	.0067	.00001	9.7	.00028
%RSD	.15391	.12238	1.5839	.40643	2.4228
#1	21.909	5.5111	.00080	2378.9	.01124
#2	21.862	5.5016	.00078	2392.6	.01163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09273**	**1.282**	**.00152**	**-.02406**	**2.0887**
Stddev	.00083	.011	.00131	.00004	.0312
%RSD	.89666	.8211	85.760	.16029	1.4931
#1	.09332	1.275	.00245	-.02403	2.1107
#2	.09214	1.290	.00060	-.02409	2.0666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	**.72278**	**.03290**	**-.00734**	**.00249**
Stddev	.00111	.00356	.00035	.00376	.00064
%RSD	45.655	.49193	1.0715	51.280	25.772
#1	.00321	.72026	.03265	-.00468	.00203
#2	.00165	.72529	.03315	-.01000	.00294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123052-E-1-A Acquired: 8/28/2017 16:50:01 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.57659
Stddev	.00135
%RSD	.23461
#1	.57755
#2	.57564
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1353.4	1299.2	48684.	4653.6
Stddev	2.2	.4	8.	22.6
%RSD	.16361	.02745	.01645	.48514
#1	1355.0	1299.5	48679.	4669.5
#2	1351.8	1299.0	48690.	4637.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	66.151%	83.165%	79.910%	96.142%
Range				

Sample Name: BLANK Acquired: 8/28/2017 16:53:45 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.10380**	**-.00104**	**-.00058**	**.00001**
Stddev	.00048	.02096	.00216	.00049	.00001
%RSD	233.95	20.193	206.92	84.757	224.08
#1	-.00014	.08898	-.00257	-.00093	.00002
#2	.00055	.11862	.00048	-.00023	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**-.00011**	**.00004**	**-.0015**	**-.00011**
Stddev	.00000	.00067	.00024	.0252	.00029
%RSD	170.30	632.73	555.90	1672.	274.20
#1	.00000	-.00058	.00021	-.0193	.00010
#2	-.00001	.00037	-.00013	.0163	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**-.00008**	**-.00034**	**.03805**	**.00017**
Stddev	.00011	.00022	.00125	.01076	.00042
%RSD	23.938	273.97	373.17	28.275	243.53
#1	.00037	.00008	.00055	.03044	.00047
#2	.00053	-.00024	-.00122	.04565	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 16:53:45 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00126**	**.00002**	**.00010**	**.12257**	**.00019**
Stddev	.00282	.00001	.00013	.00966	.00033
%RSD	224.34	64.140	128.00	7.8793	178.44
#1	.00074	.00002	.00001	.12940	-.00005
#2	-.00326	.00001	.00019	.11574	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.0072**	**-.00180**	**-.00053**	**-.02042**
Stddev	.00034	.0014	.00267	.00230	.00273
%RSD	77.014	19.64	148.19	433.93	13.355
#1	-.00020	.0081	-.00369	-.00216	-.02234
#2	-.00068	.0062	.00009	.00110	-.01849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00000**	**-.00005**	**-.00264**	**-.00019**
Stddev	.00062	.00000	.00006	.00046	.00026
%RSD	124.83	155.38	123.53	17.408	135.29
#1	-.00093	.00000	-.00010	-.00231	-.00037
#2	-.00006	-.00000	-.00001	-.00296	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 16:53:45 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00546**
Stddev	.00049
%RSD	8.9261
#1	.00581
#2	.00512
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2040.0**	**1554.9**	**60583.**	**4894.3**
Stddev	2.5	.0	165.	20.8
%RSD	.12440	.00057	.27284	.42416
#1	2038.2	1555.0	60466.	4909.0
#2	2041.8	1554.9	60700.	4879.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.711%	99.534%	99.440%	101.12%
Range				

Sample Name: 480-123164-B-3-A Acquired: 8/28/2017 16:57:21 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.20830**	**.02005**	**1.1660**	**.02548**
Stddev	.00064	.01333	.00040	.0011	.00005
%RSD	600.76	6.4006	2.0083	.09273	.19270
#1	-.00056	.19888	.02033	1.1667	.02552
#2	.00035	.21773	.01976	1.1652	.02545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**71.433**	**.00028**	**-.0099**	**.00168**
Stddev	.00007	.069	.00007	.0211	.00019
%RSD	97.683	.09632	24.782	213.3	11.203
#1	-.00011	71.482	.00033	-.0248	.00155
#2	-.00002	71.385	.00023	.0050	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**.00690**	**15.111**	**6.8662**	**.03394**
Stddev	.00039	.00012	.011	.0098	.00035
%RSD	33.991	1.7430	.07273	.14223	1.0410
#1	.00087	.00698	15.119	6.8731	.03419
#2	.00142	.00681	15.103	6.8593	.03369
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123164-B-3-A Acquired: 8/28/2017 16:57:21 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.360**	**1.8429**	**.01135**	**111.36**	**.00657**
Stddev	.003	.0009	.00024	.18	.00011
%RSD	.02533	.05108	2.1517	.16155	1.7215
#1	12.358	1.8423	.01153	111.49	.00665
#2	12.362	1.8436	.01118	111.23	.00649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00299**	**1.079**	**-.00496**	**-.00577**	**29.712**
Stddev	.00084	.003	.00113	.00491	.090
%RSD	27.898	.2959	22.831	85.010	.30328
#1	.00358	1.077	-.00576	-.00925	29.776
#2	.00240	1.082	-.00416	-.00230	29.649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.23731**	**.00236**	**-.00115**	**.00334**
Stddev	.00057	.00057	.00014	.00084	.00017
%RSD	4506.4	.24002	5.9038	73.182	4.9835
#1	.00039	.23771	.00226	-.00056	.00345
#2	-.00042	.23691	.00246	-.00175	.00322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123164-B-3-A Acquired: 8/28/2017 16:57:21 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03033
Stddev	.00033
%RSD	1.0900
#1	.03010
#2	.03056
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1772.7	1474.5	57264.	4903.4
Stddev	1.9	2.8	106.	6.8
%RSD	.10663	.18695	.18572	.13953
#1	1771.4	1472.5	57339.	4898.5
#2	1774.0	1476.4	57189.	4908.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.645%	94.382%	93.992%	101.30%
Range				

Sample Name: 480-123157-E-1-A@5 Acquired: 8/28/2017 17:00:54 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.08331**	**.04256**	**4.4425**	**.36773**
Stddev	.00051	.00224	.00120	.0128	.00016
%RSD	112.17	2.6893	2.8144	.28846	.04314
#1	.00009	.08173	.04341	4.4516	.36785
#2	.00082	.08490	.04172	4.4335	.36762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**13.126**	**.00014**	**-.0309**	**.01331**
Stddev	.00001	.077	.00008	.0064	.00018
%RSD	37.710	.58555	54.114	20.57	1.3538
#1	-.00003	13.072	.00019	-.0354	.01318
#2	-.00004	13.180	.00009	-.0264	.01344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09327**	**.00138**	**1.1197**	**179.85**	**.04735**
Stddev	.00120	.00016	.0024	.06	.00092
%RSD	1.2840	11.795	.21435	.03352	1.9502
#1	.09242	.00150	1.1181	179.81	.04670
#2	.09411	.00127	1.1214	179.90	.04801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-1-A@5 Acquired: 8/28/2017 17:00:54 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.054**	**.09473**	**.00385**	**693.08**	**.08710**
Stddev	.057	.00016	.00011	1.62	.00028
%RSD	.19729	.16631	2.9388	.23436	.32043
#1	29.014	.09461	.00377	691.93	.08690
#2	29.095	.09484	.00393	694.23	.08729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**12.65**	**.00284**	**-.01591**	**6.5389**
Stddev	.00085	.04	.00202	.00568	.0179
%RSD	91.321	.3070	71.369	35.711	.27302
#1	.00153	12.68	.00427	-.01993	6.5263
#2	.00033	12.63	.00141	-.01189	6.5515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02221**	**.19706**	**.11899**	**-.00222**	**.03926**
Stddev	.00011	.00032	.00010	.00005	.00018
%RSD	.49529	.16047	.08356	2.0626	.46115
#1	.02228	.19684	.11892	-.00218	.03939
#2	.02213	.19728	.11906	-.00225	.03913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-1-A@5 Acquired: 8/28/2017 17:00:54 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03135
Stddev	.00179
%RSD	5.7118
#1	.03008
#2	.03261
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1567.7	1388.3	52597.	4780.9
Stddev	2.9	3.5	14.	2.0
%RSD	.18279	.25503	.02571	.04227
#1	1565.7	1385.8	52607.	4779.5
#2	1569.8	1390.8	52588.	4782.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.628%	88.870%	86.332%	98.772%
Range				

Sample Name: 480-123157-E-2-A@2 Acquired: 8/28/2017 17:04:37 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.12246**	**.00662**	**9.1702**	**.30311**
Stddev	.00005	.01946	.00255	.0015	.00001
%RSD	19.640	15.887	38.488	.01617	.00176
#1	.00023	.13622	.00482	9.1713	.30311
#2	.00030	.10870	.00842	9.1692	.30311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**137.44**	**.00026**	**.0048**	**.00122**
Stddev	.00013	.23	.00010	.0112	.00006
%RSD	266.17	.16384	40.762	234.1	4.8069
#1	.00004	137.28	.00018	-.0031	.00126
#2	-.00014	137.60	.00033	.0127	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01080**	**-.00001**	**5.7057**	**56.412**	**.05886**
Stddev	.00028	.00052	.0164	.008	.00000
%RSD	2.6265	5369.7	.28756	.01417	.00215
#1	.01060	.00036	5.7173	56.418	.05886
#2	.01101	-.00037	5.6941	56.407	.05885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-2-A@2 Acquired: 8/28/2017 17:04:37 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**85.539**	**.33914**	**.00023**	**360.61**	**.00989**
Stddev	.035	.00041	.00011	.19	.00007
%RSD	.04063	.12091	48.789	.05225	.66358
#1	85.515	.33885	.00015	360.48	.00994
#2	85.564	.33943	.00031	360.74	.00985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**56.87**	**-.00061**	**-.01184**	**17.229**
Stddev	.00077	.06	.00066	.00544	.054
%RSD	39.998	.1121	108.63	45.905	.31426
#1	.00138	56.82	-.00014	-.01569	17.190
#2	.00246	56.91	-.00108	-.00800	17.267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**1.2818**	**.00547**	**-.00090**	**.00521**
Stddev	.00090	.0009	.00028	.00188	.00019
%RSD	17573.	.07079	5.1052	209.75	3.6960
#1	.00064	1.2825	.00566	.00043	.00508
#2	-.00063	1.2812	.00527	-.00223	.00535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-2-A@2 Acquired: 8/28/2017 17:04:37 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00554**
Stddev	.00047
%RSD	8.4101
#1	.00587
#2	.00521
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1602.6**	**1388.0**	**53730.**	**4790.2**
Stddev	.4	.3	14.	9.5
%RSD	.02353	.02437	.02605	.19827
#1	1602.8	1387.8	53740.	4796.9
#2	1602.3	1388.2	53720.	4783.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.329%	88.848%	88.191%	98.964%
Range				

Sample Name: 480-123157-E-3-A@2 Acquired: 8/28/2017 17:08:15 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00099	.19466	.12171	9.1389	.80187
Stddev	.00010	.01013	.00224	.0138	.00185
%RSD	9.7005	5.2042	1.8371	.15101	.23092
#1	.00093	.20183	.12013	9.1487	.80056
#2	.00106	.18750	.12329	9.1292	.80318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00001	42.610	.00016	-.0371	.03387
Stddev	.00000	.047	.00002	.0070	.00002
%RSD	47.106	.10926	14.188	18.88	.04608
#1	.00001	42.577	.00015	-.0321	.03388
#2	.00000	42.643	.00018	-.0420	.03386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19147	.00580	1.2193	339.24	.14174
Stddev	.00180	.00009	.0069	.20	.00168
%RSD	.94121	1.4719	.56794	.05752	1.1855
#1	.19020	.00574	1.2144	339.37	.14056
#2	.19275	.00586	1.2242	339.10	.14293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-3-A@2 Acquired: 8/28/2017 17:08:15 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.412**	**.28339**	**.00671**	**1382.4**	**.19320**
Stddev	.114	.00058	.00003	2.7	.00071
%RSD	.21041	.20561	.42215	.19371	.36772
#1	54.331	.28298	.00669	1380.5	.19270
#2	54.492	.28380	.00673	1384.3	.19371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00252**	**59.23**	**.00596**	**-.01798**	**17.477**
Stddev	.00268	.09	.00307	.00187	.042
%RSD	106.20	.1503	51.566	10.425	.24195
#1	.00063	59.29	.00379	-.01931	17.447
#2	.00442	59.16	.00814	-.01666	17.507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03194**	**.67713**	**.34469**	**-.00128**	**.11801**
Stddev	.00233	.00152	.00008	.00220	.00002
%RSD	7.2910	.22486	.02276	171.34	.01651
#1	.03358	.67606	.34463	-.00284	.11800
#2	.03029	.67821	.34474	.00027	.11802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-3-A@2 Acquired: 8/28/2017 17:08:15 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04278
Stddev	.00037
%RSD	.86716
#1	.04304
#2	.04251
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1444.9	1318.6	49797.	4623.3
Stddev	3.8	2.3	1.	3.8
%RSD	.26596	.17445	.00124	.08154
#1	1442.2	1316.9	49798.	4625.9
#2	1447.6	1320.2	49797.	4620.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.624%	84.402%	81.736%	95.515%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 17:11:58 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51013**	**23.879**	**.50364**	**.51545**	**.49210**	**.49969**	**24.976**	**.50077**
Stddev	.00195	.060	.00437	.00058	.00135	.00096	.112	.00080
%RSD	.38157	.25078	.86743	.11213	.27438	.19227	.44828	.15960
#1	.50875	23.837	.50673	.51586	.49114	.49901	24.897	.50134
#2	.51151	23.922	.50055	.51504	.49305	.50037	25.055	.50021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0083**	**.48944**	**.50070**	**.50303**	**24.617**	**25.149**	**.49879**	**25.097**
Stddev	.0205	.00115	.00124	.00025	.044	.050	.00222	.071
%RSD	246.5	.23596	.24772	.05063	.17744	.19842	.44489	.28311
#1	.0228	.49026	.49983	.50321	24.586	25.113	.50036	25.047
#2	-.0062	.48863	.50158	.50285	24.648	25.184	.49722	25.147
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51365**	**.50341**	**24.367**	**.50006**	**.49818**	**25.28**	**.49693**	**.49940**
Stddev	.00005	.00095	.058	.00092	.00040	.02	.00099	.00141
%RSD	.00940	.18775	.23598	.18355	.08088	.0606	.19976	.28316
#1	.51362	.50274	24.326	.49941	.49847	25.29	.49763	.49840
#2	.51369	.50407	24.407	.50071	.49790	25.27	.49623	.50040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 17:11:58 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.564**	**.51576**	**.49322**	**.49864**	**.50671**	**.49963**	**.50357**
Stddev	.055	.00254	.00046	.00056	.00044	.00121	.00336
%RSD	.22353	.49196	.09364	.11326	.08682	.24203	.66769
#1	24.525	.51396	.49290	.49904	.50702	.49878	.50119
#2	24.603	.51755	.49355	.49824	.50640	.50049	.50594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1831.2**	**1507.8**	**58248.**	**4834.7**
Stddev	.8	.5	163.	20.3
%RSD	.04336	.03160	.28039	.41959
#1	1831.8	1507.4	58363.	4849.0
#2	1830.6	1508.1	58132.	4820.3

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:15:28 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00915**	**-.00171**	**.00632**	**.00001**	**.00002**	**-.00010**	**-.00005**
Stddev	.00005	.01860	.00060	.00031	.00001	.00006	.00143	.00004
%RSD	9.9008	203.33	35.127	4.8816	49.822	393.20	1358.4	78.905
#1	.00053	.02230	-.00129	.00654	.00001	.00006	-.00111	-.00008
#2	.00046	-.00400	-.00214	.00610	.00002	-.00003	.00090	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0118**	**-.00012**	**.00002**	**-.00017**	**-.00208**	**.14958**	**-.00001**	**-.00002**
Stddev	.0008	.00016	.00001	.00039	.00340	.02580	.00073	.00566
%RSD	6.441	129.95	91.204	225.41	163.30	17.247	7040.6	35837.
#1	.0123	-.00024	.00001	.00010	.00032	.16782	-.00053	-.00402
#2	.0113	-.00001	.00003	-.00045	-.00448	.13134	.00050	.00399
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00014**	**.11435**	**.00032**	**.00134**	**.0027**	**-.00082**	**-.00435**
Stddev	.00000	.00003	.00826	.00003	.00000	.0054	.00093	.00020
%RSD	8.8142	21.500	7.2207	9.8018	.19808	200.4	113.37	4.5375
#1	-.00002	.00016	.12018	.00030	.00134	.0065	-.00148	-.00449
#2	-.00002	.00012	.10851	.00034	.00133	-.0011	-.00016	-.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:15:28 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00349**	**-.00036**	**.00003**	**-.00000**	**-.00166**	**.00029**	**.00012**
Stddev	.01815	.00011	.00000	.00033	.00082	.00010	.00054
%RSD	519.74	31.076	2.4673	10347.	49.609	33.570	440.74
#1	-.01633	-.00044	.00002	-.00024	-.00224	.00036	-.00026
#2	.00934	-.00028	.00003	.00023	-.00108	.00022	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2036.7**	**1551.4**	**60599.**	**4870.4**
Stddev	.2	.9	273.	3.3
%RSD	.00946	.06063	.45102	.06751
#1	2036.5	1552.1	60406.	4872.7
#2	2036.8	1550.7	60793.	4868.0

Sample Name: CCVL-4209929 Acquired: 8/28/2017 17:19:05 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00623**	**.19468**	**.01705**	**.02438**	**.00214**	**.00209**	**.51057**	**.00210**
Stddev	.00032	.00478	.00054	.00004	.00000	.00000	.00108	.00001
%RSD	5.1687	2.4540	3.1417	.14896	.18548	.11870	.21134	.36786
#1	.00600	.19130	.01743	.02435	.00214	.00209	.51133	.00210
#2	.00645	.19806	.01668	.02440	.00213	.00209	.50981	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0168**	**.00373**	**.00468**	**.00962**	**.05110**	**.61440**	**.03014**	**.20275**
Stddev	.0237	.00002	.00001	.00002	.00089	.00016	.00105	.00401
%RSD	140.8	.51167	.11569	.23121	1.7348	.02571	3.4893	1.9774
#1	-.0336	.00372	.00468	.00960	.05172	.61452	.03088	.20558
#2	-.0001	.00375	.00468	.00963	.05047	.61429	.02939	.19991
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00303**	**.01011**	**1.0722**	**.01009**	**.01095**	**.2032**	**.01863**	**.02578**
Stddev	.00001	.00016	.0036	.00057	.00139	.0028	.00179	.00077
%RSD	.27523	1.5539	.33833	5.6627	12.701	1.397	9.6267	2.9978
#1	.00302	.00999	1.0747	.01049	.01193	.2052	.01736	.02632
#2	.00303	.01022	1.0696	.00968	.00997	.2011	.01990	.02523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-4209929 Acquired: 8/28/2017 17:19:05 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50124	.00951	.00507	.00487	.01651	.00475	.01034
Stddev	.00278	.00080	.00001	.00003	.00013	.00004	.00047
%RSD	.55391	8.4099	.29154	.58887	.79959	.74997	4.5159
#1	.49928	.01007	.00506	.00485	.01642	.00473	.01067
#2	.50320	.00894	.00508	.00489	.01661	.00478	.01001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2031.0	1552.7	60771.	4908.1
Stddev	.2	.5	34.	44.4
%RSD	.00803	.03088	.05621	.90452
#1	2030.8	1552.3	60795.	4876.7
#2	2031.1	1553.0	60747.	4939.5

Sample Name: 480-123157-E-4-A@5 Acquired: 8/28/2017 17:22:42 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.10784**	**.02023**	**4.4956**	**.27289**
Stddev	.00040	.02895	.00214	.0046	.00019
%RSD	118.18	26.850	10.599	.10297	.06963
#1	.00063	.12831	.02175	4.4989	.27275
#2	.00006	.08736	.01872	4.4923	.27302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**10.560**	**.00030**	**-.0071**	**.01822**
Stddev	.00005	.008	.00024	.0192	.00047
%RSD	357.88	.07912	81.317	269.5	2.6051
#1	-.00002	10.566	.00013	-.0207	.01788
#2	.00005	10.554	.00047	.0065	.01855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08841**	**.00178**	**1.2239**	**134.51**	**.06044**
Stddev	.00095	.00016	.0082	.07	.00133
%RSD	1.0779	9.2130	.66998	.05012	2.2088
#1	.08773	.00189	1.2181	134.55	.06138
#2	.08908	.00166	1.2297	134.46	.05949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-4-A@5 Acquired: 8/28/2017 17:22:42 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.103**	**.03131**	**.00510**	**612.61**	**.07040**
Stddev	.041	.00002	.00001	.15	.00023
%RSD	.24221	.06059	.19577	.02482	.32987
#1	17.073	.03130	.00510	612.50	.07057
#2	17.132	.03133	.00509	612.71	.07024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00303**	**9.237**	**.00235**	**-.01276**	**7.9012**
Stddev	.00067	.013	.00287	.00658	.0472
%RSD	22.082	.1434	122.12	51.547	.59737
#1	.00256	9.228	.00437	-.01741	7.8679
#2	.00350	9.246	.00032	-.00811	7.9346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03467**	**.11250**	**.09696**	**-.00150**	**.01974**
Stddev	.00073	.00009	.00010	.00313	.00003
%RSD	2.1108	.07622	.10328	209.29	.17427
#1	.03519	.11256	.09689	.00072	.01976
#2	.03416	.11244	.09703	-.00371	.01972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-4-A@5 Acquired: 8/28/2017 17:22:42 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02453
Stddev	.00010
%RSD	.41206
#1	.02446
#2	.02460
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1589.1	1396.1	52739.	4775.2
Stddev	8.3	3.6	11.	3.2
%RSD	.51940	.25965	.02176	.06706
#1	1583.3	1393.5	52747.	4772.9
#2	1594.9	1398.6	52731.	4777.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.671%	89.364%	86.565%	98.654%
Range				

Sample Name: 480-123157-E-7-A@5 Acquired: 8/28/2017 17:26:20 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.09137**	**.04257**	**2.7295**	**.21742**
Stddev	.00023	.00473	.00015	.0053	.00016
%RSD	42.148	5.1763	.36390	.19468	.07274
#1	.00070	.08803	.04268	2.7332	.21753
#2	.00038	.09472	.04246	2.7257	.21730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**13.424**	**.00009**	**-.0134**	**.01143**
Stddev	.00003	.023	.00011	.0193	.00028
%RSD	27.534	.17109	122.42	144.7	2.4916
#1	-.00014	13.440	.00001	-.0270	.01163
#2	-.00009	13.408	.00017	.0003	.01123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06890**	**.00182**	**1.5126**	**146.21**	**.05327**
Stddev	.00023	.00018	.0043	.19	.00030
%RSD	.32791	9.7495	.28764	.13183	.56753
#1	.06874	.00170	1.5157	146.07	.05348
#2	.06906	.00195	1.5096	146.35	.05305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-7-A@5 Acquired: 8/28/2017 17:26:20 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.815**	**.06591**	**.00296**	**523.79**	**.07620**
Stddev	.037	.00004	.00011	.62	.00059
%RSD	.14281	.06147	3.8733	.11806	.77544
#1	25.789	.06588	.00305	523.35	.07578
#2	25.841	.06594	.00288	524.23	.07662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00169**	**10.02**	**.00591**	**-.01094**	**5.9399**
Stddev	.00041	.02	.00093	.00129	.0231
%RSD	24.264	.2268	15.749	11.764	.38813
#1	.00198	10.03	.00526	-.01003	5.9236
#2	.00140	10.00	.00657	-.01185	5.9562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02232**	**.10027**	**.08171**	**-.00271**	**.02115**
Stddev	.00053	.00017	.00003	.00042	.00018
%RSD	2.3768	.17128	.03620	15.539	.84182
#1	.02270	.10015	.08173	-.00241	.02102
#2	.02195	.10039	.08169	-.00300	.02127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-7-A@5 Acquired: 8/28/2017 17:26:20 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03344
Stddev	.00029
%RSD	.86035
#1	.03324
#2	.03365
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1620.5	1406.7	53896.	4857.5
Stddev	2.9	3.5	218.	4.4
%RSD	.17936	.25041	.40430	.09081
#1	1618.4	1404.2	54050.	4854.4
#2	1622.5	1409.1	53742.	4860.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.204%	90.042%	88.464%	100.35%
Range				

Sample Name: 480-123157-E-8-A@5 Acquired: 8/28/2017 17:29:57 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.04682**	**.00010**	**1.4195**	**.01499**
Stddev	.00025	.00300	.00083	.0024	.00000
%RSD	56.835	6.3969	839.99	.16864	.02543
#1	.00026	.04894	-.00049	1.4212	.01498
#2	.00061	.04470	.00069	1.4179	.01499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**13.778**	**-.00005**	**-.0113**	**.00020**
Stddev	.00007	.011	.00011	.0179	.00009
%RSD	92.418	.08278	202.11	158.0	46.969
#1	-.00003	13.770	-.00013	.0013	.00013
#2	-.00013	13.786	.00002	-.0240	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**.00242**	**.14892**	**26.944**	**.04974**
Stddev	.00007	.00033	.00230	.058	.00068
%RSD	2.5355	13.822	1.5461	.21635	1.3601
#1	.00284	.00219	.15054	26.985	.05022
#2	.00294	.00266	.14729	26.902	.04926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-8-A@5 Acquired: 8/28/2017 17:29:57 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.935**	**.03084**	**.00051**	**94.109**	**.01399**
Stddev	.040	.00012	.00028	.002	.00009
%RSD	.14980	.39824	54.998	.00221	.61322
#1	26.963	.03076	.00031	94.111	.01392
#2	26.906	.03093	.00071	94.108	.01405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**39.76**	**-.00004**	**-.00578**	**3.4938**
Stddev	.00055	.05	.00235	.00320	.0239
%RSD	27.642	.1212	5228.4	55.427	.68304
#1	.00161	39.72	.00162	-.00805	3.4769
#2	.00239	39.79	-.00171	-.00352	3.5106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.18498**	**.00103**	**-.00175**	**.00161**
Stddev	.00001	.00041	.00020	.00154	.00015
%RSD	1.6895	.22289	19.370	87.921	9.0742
#1	.00036	.18527	.00118	-.00066	.00171
#2	.00037	.18469	.00089	-.00284	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123157-E-8-A@5 Acquired: 8/28/2017 17:29:57 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00414
Stddev	.00044
%RSD	10.662
#1	.00445
#2	.00383
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1808.2	1481.8	57408.	4874.4
Stddev	3.5	4.0	206.	1.8
%RSD	.19497	.27194	.35902	.03650
#1	1810.7	1484.7	57262.	4873.2
#2	1805.7	1479.0	57554.	4875.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.379%	94.855%	94.229%	100.70%
Range				

Sample Name: BLANK Acquired: 8/28/2017 17:33:30 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00118**	**.00062**	**.00456**	**.00001**
Stddev	.00021	.02426	.00235	.00017	.00001
%RSD	179.63	2058.5	380.93	3.7771	140.89
#1	-.00027	-.01833	-.00104	.00444	.00002
#2	.00003	.01598	.00228	.00468	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00448**	**-.00015**	**.0004**	**-.00020**
Stddev	.00001	.00239	.00003	.0007	.00005
%RSD	15.012	53.387	17.109	172.4	25.988
#1	-.00007	-.00617	-.00013	.0009	-.00023
#2	-.00005	-.00279	-.00017	-.0001	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00002**	**.00129**	**.15029**	**-.00027**
Stddev	.00010	.00009	.00055	.03242	.00097
%RSD	51.405	428.68	42.341	21.574	355.70
#1	.00028	.00009	.00168	.12736	-.00096
#2	.00013	-.00004	.00090	.17321	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 17:33:30 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00220**	**.00001**	**.00006**	**.12576**	**-.00011**
Stddev	.00043	.00007	.00030	.00491	.00001
%RSD	19.351	1247.0	510.52	3.9019	12.566
#1	.00250	-.00005	-.00015	.12229	-.00010
#2	.00190	.00006	.00027	.12923	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.0016**	**-.00102**	**-.00311**	**-.01117**
Stddev	.00005	.0066	.00050	.00482	.01636
%RSD	11.110	427.0	49.229	155.18	146.52
#1	-.00050	-.0063	-.00066	.00030	.00040
#2	-.00042	.0031	-.00137	-.00652	-.02274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00002**	**-.00017**	**-.00154**	**.00012**
Stddev	.00038	.00007	.00021	.00095	.00006
%RSD	67.413	340.39	127.11	62.079	50.929
#1	.00030	-.00003	-.00002	-.00086	.00017
#2	.00084	.00007	-.00031	-.00221	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 17:33:30 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00185**
Stddev	.00010
%RSD	5.1864
#1	-.00192
#2	-.00178
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2039.5**	**1553.5**	**60648.**	**4899.8**
Stddev	.1	2.1	5.	11.1
%RSD	.00404	.13568	.00862	.22561
#1	2039.5	1555.0	60645.	4907.6
#2	2039.4	1552.0	60652.	4891.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.684%	99.442%	99.547%	101.23%
Range				

Sample Name: 480-123047-D-2-B@50 Acquired: 8/28/2017 17:37:06 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.04986**	**-.00142**	**.18196**	**.00089**
Stddev	.00049	.00828	.00335	.00008	.00000
%RSD	84.869	16.601	236.19	.04177	.50765
#1	.00023	.05571	-.00379	.18202	.00089
#2	.00092	.04400	.00095	.18191	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**10.424**	**.00012**	**.0010**	**-.00016**
Stddev	.00002	.002	.00016	.0069	.00012
%RSD	63.214	.01896	139.24	674.3	76.668
#1	-.00001	10.426	.00000	-.0039	-.00024
#2	-.00003	10.423	.00023	.0059	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00022**	**.00903**	**1.4084**	**.02594**
Stddev	.00030	.00039	.00306	.0076	.00068
%RSD	138.45	176.51	33.887	.54149	2.6263
#1	-.00043	.00050	.00686	1.4138	.02545
#2	-.00000	-.00005	.01119	1.4030	.02642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123047-D-2-B@50 Acquired: 8/28/2017 17:37:06 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.81309**	**.00069**	**.00018**	**57.968**	**-.00009**
Stddev	.00536	.00004	.00012	.200	.00022
%RSD	.65941	6.2411	69.131	.34460	237.40
#1	.80930	.00066	.00026	58.109	-.00024
#2	.81688	.00072	.00009	57.827	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**37.76**	**-.00060**	**-.00161**	**.10397**
Stddev	.00147	.05	.00071	.00180	.01257
%RSD	109.22	.1367	118.61	112.02	12.090
#1	.00239	37.79	-.00110	-.00033	.11286
#2	.00031	37.72	-.00010	-.00288	.09508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**.20921**	**-.00007**	**-.00131**	**.00027**
Stddev	.00142	.00024	.00012	.00065	.00037
%RSD	105.29	.11531	167.89	49.875	136.02
#1	.00235	.20938	.00001	-.00177	.00001
#2	.00034	.20904	-.00016	-.00085	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123047-D-2-B@50 Acquired: 8/28/2017 17:37:06 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00243**
Stddev	.00013
%RSD	5.3037
#1	.00252
#2	.00234
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1884.0**	**1504.2**	**58563.**	**4817.5**
Stddev	2.9	3.5	73.	10.9
%RSD	.15158	.23542	.12536	.22632
#1	1882.0	1501.7	58615.	4809.8
#2	1886.0	1506.7	58511.	4825.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.086%	96.284%	96.124%	99.528%
Range				

Sample Name: 123028-6 TOT Acquired: 8/28/2017 17:40:41 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00240**	**-.00369**	**.00600**	**.01595**
Stddev	.00041	.00215	.00090	.00007	.00007
%RSD	180.32	89.706	24.255	1.1611	.41465
#1	-.00006	.00088	-.00433	.00605	.01600
#2	.00052	.00392	-.00306	.00595	.01591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**4.4866**	**-.00013**	**-.0002**	**-.00028**
Stddev	.00013	.0144	.00002	.0172	.00000
%RSD	284.43	.32117	15.042	7689.	1.1435
#1	.00013	4.4968	-.00014	-.0124	-.00028
#2	-.00005	4.4764	-.00012	.0120	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00740**	**.00282**	**.96209**	**.00627**
Stddev	.00036	.00003	.00208	.00419	.00017
%RSD	167.47	.34870	74.003	.43504	2.7840
#1	.00046	.00738	.00429	.95913	.00614
#2	-.00004	.00741	.00134	.96505	.00639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123028-6 TOT Acquired: 8/28/2017 17:40:41 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1394**	**.00143**	**-.00019**	**6.3611**	**.00571**
Stddev	.0031	.00003	.00030	.0072	.00007
%RSD	.06000	1.8628	163.63	.11366	1.2413
#1	5.1416	.00142	-.00040	6.3662	.00566
#2	5.1372	.00145	.00003	6.3560	.00576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.1737**	**-.00261**	**-.00066**	**8.6172**
Stddev	.00082	.0024	.00208	.00229	.0254
%RSD	482.76	1.400	79.692	344.36	.29443
#1	.00041	.1720	-.00114	.00095	8.6352
#2	-.00075	.1754	-.00408	-.00228	8.5993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.02499**	**.00002**	**-.00054**	**.00024**
Stddev	.00051	.00009	.00022	.00025	.00004
%RSD	8551.5	.37491	1236.0	47.275	17.613
#1	-.00037	.02506	-.00014	-.00036	.00021
#2	.00036	.02493	.00017	-.00072	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123028-6 TOT Acquired: 8/28/2017 17:40:41 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00643**
Stddev	.00101
%RSD	15.765
#1	.00714
#2	.00571
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2053.1**	**1588.3**	**61481.**	**4993.1**
Stddev	8.3	6.1	4.	20.1
%RSD	.40378	.38196	.00634	.40349
#1	2058.9	1592.6	61484.	4978.9
#2	2047.2	1584.0	61478.	5007.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.35%	101.67%	100.91%	103.16%
Range				

Sample Name: BLANK Acquired: 8/28/2017 17:44:15 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.02241**	**-.00264**	**.00209**	**.00013**
Stddev	.00049	.01195	.00080	.00008	.00001
%RSD	881.93	53.321	30.151	3.7946	4.8777
#1	.00040	-.03086	-.00320	.00214	.00013
#2	-.00029	-.01396	-.00208	.00203	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00182**	**.00004**	**-.0098**	**-.00005**
Stddev	.00006	.00095	.00002	.0232	.00017
%RSD	204.84	52.103	35.765	238.1	323.60
#1	-.00007	-.00249	.00003	.0067	-.00018
#2	.00001	-.00115	.00006	-.0262	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00003**	**-.00045**	**.07051**	**-.00077**
Stddev	.00003	.00032	.00216	.00213	.00012
%RSD	24.734	1091.5	476.03	3.0204	15.561
#1	.00011	-.00025	.00108	.06901	-.00069
#2	.00016	.00020	-.00198	.07202	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 17:44:15 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00147**	**-.00000**	**-.00001**	**.06231**	**.00022**
Stddev	.00197	.00001	.00003	.01022	.00037
%RSD	134.12	1117.0	209.69	16.404	167.12
#1	.00008	-.00001	-.00003	.06954	.00048
#2	.00286	.00001	.00001	.05508	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.0053**	**-.00127**	**-.00160**	**-.00403**
Stddev	.00065	.0045	.00286	.00336	.00045
%RSD	501.24	85.67	224.94	210.35	11.237
#1	.00033	.0085	-.00329	.00078	-.00435
#2	-.00059	.0021	.00075	-.00397	-.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00001**	**-.00005**	**-.00316**	**.00017**
Stddev	.00006	.00004	.00001	.00066	.00006
%RSD	30.903	545.07	19.904	20.827	35.716
#1	-.00023	-.00002	-.00005	-.00269	.00012
#2	-.00015	.00003	-.00004	-.00363	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 17:44:15 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00029**
Stddev	.00036
%RSD	124.47
#1	-.00003
#2	-.00054
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2031.1**	**1544.3**	**60575.**	**4894.3**
Stddev	.6	.2	58.	8.1
%RSD	.03090	.01381	.09502	.16530
#1	2031.5	1544.1	60534.	4900.1
#2	2030.6	1544.4	60616.	4888.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.275%	98.852%	99.427%	101.12%
Range				

Sample Name: MB 480-373992/1-A Acquired: 8/28/2017 17:47:51 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.01557**	**-.00399**	**.00462**	**.00010**
Stddev	.00021	.01159	.00183	.00039	.00003
%RSD	90.044	74.416	45.938	8.3900	31.482
#1	.00039	.00738	-.00529	.00490	.00008
#2	.00009	.02376	-.00270	.00435	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.05196**	**.00006**	**-.0023**	**-.00005**
Stddev	.00002	.00146	.00003	.0025	.00008
%RSD	24.053	2.8182	53.469	110.6	156.49
#1	-.00007	.05299	.00004	-.0040	.00001
#2	-.00010	.05092	.00008	-.0005	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**.00058**	**.01098**	**.05575**	**.00046**
Stddev	.00031	.00005	.00145	.01714	.00040
%RSD	33.643	8.7818	13.228	30.749	87.394
#1	.00115	.00062	.01200	.04363	.00074
#2	.00071	.00055	.00995	.06787	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373992/1-A Acquired: 8/28/2017 17:47:51 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00799**	**.00134**	**.00010**	**.05182**	**-.00003**
Stddev	.00220	.00001	.00000	.00640	.00013
%RSD	27.573	.98388	2.7190	12.349	399.71
#1	.00954	.00133	.00010	.04729	-.00013
#2	.00643	.00135	.00010	.05634	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.0065**	**.00091**	**.00364**	**-.01303**
Stddev	.00018	.0033	.00079	.00317	.00575
%RSD	32.172	50.65	86.550	87.030	44.088
#1	-.00070	.0042	.00146	.00140	-.00897
#2	-.00044	.0089	.00035	.00588	-.01709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**.00036**	**-.00006**	**-.00332**	**.00024**
Stddev	.00016	.00001	.00001	.00044	.00003
%RSD	11.707	3.7852	20.016	13.384	12.485
#1	.00123	.00035	-.00005	-.00301	.00027
#2	.00146	.00037	-.00006	-.00364	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373992/1-A Acquired: 8/28/2017 17:47:51 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00041
Stddev	.00034
%RSD	82.784
#1	.00017
#2	.00065
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2036.0	1557.1	61218.	4983.3
Stddev	2.1	1.0	217.	7.1
%RSD	.10356	.06148	.35481	.14249
#1	2037.5	1557.8	61064.	4988.3
#2	2034.6	1556.5	61371.	4978.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.517%	99.675%	100.48%	102.95%
Range				

Sample Name: LCS 480-373992/2-A Acquired: 8/28/2017 17:51:28 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04689**	**9.9236**	**.20227**	**.21020**	**.20725**
Stddev	.00019	.0284	.00010	.00041	.00060
%RSD	.41401	.28636	.05103	.19380	.28760
#1	.04675	9.9437	.20219	.21049	.20767
#2	.04702	9.9035	.20234	.20992	.20682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20141**	**10.062**	**.20523**	**.0034**	**.19148**
Stddev	.00028	.033	.00001	.0076	.00019
%RSD	.13927	.32988	.00590	227.2	.10100
#1	.20160	10.085	.20522	-.0020	.19134
#2	.20121	10.038	.20524	.0087	.19162
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19956**	**.20475**	**10.408**	**10.054**	**.20326**
Stddev	.00155	.00027	.035	.045	.00072
%RSD	.77708	.13330	.34097	.44533	.35601
#1	.20065	.20495	10.433	10.086	.20377
#2	.19846	.20456	10.382	10.023	.20275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373992/2-A Acquired: 8/28/2017 17:51:28 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.369**	**.21268**	**.20602**	**9.9182**	**.19851**
Stddev	.016	.00013	.00008	.0505	.00041
%RSD	.15840	.05958	.03783	.50947	.20424
#1	10.381	.21277	.20596	9.9539	.19823
#2	10.358	.21259	.20607	9.8824	.19880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20592**	**10.06**	**.19899**	**.20596**	**10.047**
Stddev	.00050	.02	.00062	.00884	.012
%RSD	.24260	.1800	.30966	4.2917	.12105
#1	.20628	10.08	.19942	.21221	10.056
#2	.20557	10.05	.19855	.19971	10.038
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18451**	**.20005**	**.19877**	**.20271**	**.20538**
Stddev	.00157	.00041	.00057	.00116	.00039
%RSD	.85285	.20301	.28590	.56980	.18859
#1	.18340	.20034	.19917	.20189	.20566
#2	.18562	.19976	.19836	.20352	.20511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373992/2-A Acquired: 8/28/2017 17:51:28 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20475**
Stddev	.00176
%RSD	.85935
#1	.20351
#2	.20599
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1925.1**	**1532.7**	**60036.**	**4986.6**
Stddev	1.3	.1	1.	12.3
%RSD	.06932	.00678	.00207	.24644
#1	1926.0	1532.7	60036.	4977.9
#2	1924.1	1532.8	60035.	4995.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.092%	98.113%	98.541%	103.02%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 17:54:54 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50950**	**24.046**	**.50458**	**.50757**	**.49647**	**.50059**	**24.951**	**.50206**
Stddev	.00135	.102	.00219	.00034	.00428	.00081	.010	.00046
%RSD	.26579	.42446	.43314	.06751	.86169	.16115	.04060	.09138
#1	.50854	24.118	.50613	.50781	.49344	.50116	24.958	.50239
#2	.51046	23.974	.50303	.50733	.49949	.50002	24.944	.50174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0014**	**.48931**	**.50143**	**.50292**	**24.545**	**25.156**	**.50057**	**25.074**
Stddev	.0244	.00161	.00002	.00153	.070	.043	.00014	.018
%RSD	1795.	.32963	.00451	.30381	.28446	.17064	.02893	.07238
#1	-.0186	.49045	.50145	.50184	24.595	25.186	.50047	25.062
#2	.0159	.48817	.50142	.50400	24.496	25.125	.50067	25.087
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51360**	**.50465**	**24.816**	**.50058**	**.49730**	**25.38**	**.49292**	**.50429**
Stddev	.00110	.00138	.040	.00083	.00057	.03	.00287	.00309
%RSD	.21441	.27253	.16224	.16627	.11390	.1125	.58208	.61267
#1	.51282	.50563	24.844	.50117	.49770	25.40	.49495	.50211
#2	.51438	.50368	24.787	.49999	.49690	25.36	.49089	.50648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 17:54:54 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.326**	**.51598**	**.49682**	**.49981**	**.50634**	**.49934**	**.50174**
Stddev	.033	.00166	.00113	.00078	.00010	.00070	.00025
%RSD	.13404	.32130	.22671	.15540	.01925	.13950	.04908
#1	24.349	.51715	.49762	.49926	.50627	.49884	.50157
#2	24.303	.51481	.49602	.50036	.50641	.49983	.50192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1831.1**	**1506.1**	**58417.**	**4862.7**
Stddev	.2	.4	204.	2.2
%RSD	.00832	.02646	.34874	.04524
#1	1831.0	1506.4	58561.	4864.3
#2	1831.2	1505.8	58273.	4861.2

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:58:24 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00290**	**-.00261**	**.00112**	**.00000**	**-.00002**	**-.00475**	**.00003**
Stddev	.00044	.00161	.00057	.00028	.00001	.00005	.00280	.00020
%RSD	1134.9	55.673	21.932	24.502	454.50	335.06	58.863	569.50
#1	.00035	.00404	-.00221	.00132	.00001	-.00005	-.00278	-.00010
#2	-.00027	.00176	-.00302	.00093	-.00001	.00002	-.00673	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0125**	**.00008**	**.00010**	**-.00005**	**.00025**	**.07351**	**-.00018**	**-.00071**
Stddev	.0051	.00007	.00029	.00033	.00314	.04699	.00070	.00067
%RSD	40.49	92.937	305.23	630.15	1252.0	63.918	394.78	93.581
#1	-.0089	.00013	-.00011	-.00029	-.00197	.10673	-.00068	-.00024
#2	-.0161	.00003	.00030	.00018	.00247	.04029	.00032	-.00119
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00019**	**.03650**	**-.00006**	**-.00100**	**-.0064**	**-.00019**	**-.00459**
Stddev	.00001	.00011	.00101	.00022	.00142	.0037	.00079	.00211
%RSD	14.584	56.945	2.7610	387.40	141.84	58.89	428.84	45.908
#1	-.00009	.00027	.03578	-.00022	.00000	-.0090	.00038	-.00608
#2	-.00007	.00012	.03721	.00010	-.00200	-.0037	-.00075	-.00310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:58:24 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.02061**	**-.00016**	**.00005**	**.00014**	**-.00149**	**.00007**	**-.00045**
Stddev	.01586	.00102	.00008	.00001	.00061	.00013	.00092
%RSD	76.940	620.05	169.24	7.2444	40.852	174.88	204.25
#1	-.03183	.00056	.00010	.00013	-.00192	.00016	.00020
#2	-.00940	-.00089	-.00001	.00015	-.00106	-.00002	-.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2036.7**	**1550.6**	**60770.**	**4886.6**
Stddev	1.0	.1	39.	29.1
%RSD	.04978	.00741	.06342	.59618
#1	2036.0	1550.6	60743.	4907.2
#2	2037.4	1550.7	60797.	4866.0

Sample Name: CCVL-4209929 Acquired: 8/28/2017 18:02:01 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00673**	**.21522**	**.01056**	**.02112**	**.00214**	**.00197**	**.50445**	**.00237**
Stddev	.00042	.00607	.00265	.00039	.00000	.00003	.00338	.00017
%RSD	6.2656	2.8226	25.055	1.8441	.07317	1.5800	.66987	7.2199
#1	.00644	.21951	.01243	.02085	.00214	.00195	.50206	.00249
#2	.00703	.21092	.00869	.02140	.00215	.00199	.50684	.00225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060**	**.00384**	**.00426**	**.00997**	**.05095**	**.58519**	**.02947**	**.20150**
Stddev	.0270	.00010	.00028	.00016	.00313	.01384	.00048	.00081
%RSD	453.5	2.7109	6.6470	1.5993	6.1351	2.3649	1.6412	.40359
#1	-.0132	.00391	.00446	.00986	.05316	.57541	.02981	.20207
#2	.0251	.00377	.00406	.01008	.04874	.59498	.02913	.20092
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00309**	**.00997**	**1.0431**	**.00977**	**.01025**	**.1914**	**.01842**	**.02813**
Stddev	.00004	.00029	.0017	.00015	.00025	.0050	.00128	.00006
%RSD	1.2734	2.9416	.16096	1.5055	2.4408	2.609	6.9477	.19884
#1	.00306	.01018	1.0419	.00988	.01042	.1949	.01933	.02817
#2	.00312	.00976	1.0443	.00967	.01007	.1879	.01752	.02809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-4209929 Acquired: 8/28/2017 18:02:01 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49733	.00887	.00495	.00484	.01767	.00509	.01031
Stddev	.00614	.00060	.00000	.00014	.00016	.00017	.00018
%RSD	1.2355	6.7619	.05492	2.8963	.92671	3.4118	1.7945
#1	.50168	.00844	.00495	.00493	.01778	.00522	.01044
#2	.49299	.00929	.00495	.00474	.01755	.00497	.01018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2023.5	1551.7	60759.	4891.6
Stddev	.3	4.1	66.	20.0
%RSD	.01257	.26604	.10925	.40849
#1	2023.6	1548.8	60806.	4905.7
#2	2023.3	1554.6	60712.	4877.5

Sample Name: 480-123215-G-1-B Acquired: 8/28/2017 18:05:38 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**2.8198**	**.00102**	**.21655**	**.05685**
Stddev	.00078	.0100	.00172	.00067	.00001
%RSD	315.31	.35358	168.87	.30857	.02143
#1	-.00080	2.8269	-.00020	.21702	.05686
#2	.00030	2.8128	.00224	.21608	.05684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**160.18**	**.00028**	**.0247**	**.00116**
Stddev	.00005	.68	.00001	.0132	.00013
%RSD	39.243	.42372	4.4644	53.58	11.342
#1	.00009	159.70	.00027	.0341	.00106
#2	.00017	160.66	.00028	.0154	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00399**	**.00342**	**2.5797**	**1.2578**	**.00888**
Stddev	.00051	.00005	.0217	.0180	.00159
%RSD	12.732	1.5921	.84072	1.4328	17.902
#1	.00363	.00338	2.5644	1.2450	.01000
#2	.00435	.00346	2.5951	1.2705	.00775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-1-B Acquired: 8/28/2017 18:05:38 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.556**	**.06589**	**.00285**	**15.765**	**.00551**
Stddev	.056	.00026	.00012	.083	.00024
%RSD	.13361	.38929	4.0538	.52382	4.3557
#1	41.516	.06571	.00277	15.707	.00534
#2	41.595	.06607	.00293	15.823	.00568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**57.23**	**-.00319**	**-.00644**	**10.666**
Stddev	.00121	.13	.00059	.00333	.004
%RSD	112.70	.2280	18.578	51.673	.03700
#1	.00193	57.32	-.00277	-.00880	10.663
#2	.00022	57.14	-.00361	-.00409	10.669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00140**	**.61920**	**.07512**	**.00111**	**.00658**
Stddev	.00036	.00216	.00314	.00145	.00023
%RSD	25.514	.34861	4.1805	129.95	3.5667
#1	-.00115	.61767	.07290	.00214	.00641
#2	-.00165	.62072	.07734	.00009	.00674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-1-B Acquired: 8/28/2017 18:05:38 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01071
Stddev	.00111
%RSD	10.381
#1	.01150
#2	.00993
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1763.5	1453.4	56883.	4854.1
Stddev	3.1	.5	130.	.3
%RSD	.17326	.03707	.22835	.00570
#1	1765.7	1453.7	56975.	4854.3
#2	1761.4	1453.0	56791.	4853.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.197%	93.032%	93.367%	100.28%
Range				

Sample Name: 480-123215-G-2-B Acquired: 8/28/2017 18:09:10 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**1.0735**	**-.00210**	**.19112**	**.07587**
Stddev	.00037	.0226	.00056	.00134	.00011
%RSD	70.649	2.1012	26.830	.70108	.15022
#1	.00026	1.0576	-.00250	.19207	.07579
#2	.00077	1.0895	-.00170	.19017	.07595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**148.38**	**.00031**	**.0074**	**.00033**
Stddev	.00003	.71	.00005	.0172	.00017
%RSD	118.83	.48134	16.895	230.6	52.134
#1	.00000	147.87	.00027	-.0047	.00021
#2	.00005	148.88	.00035	.0196	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00169**	**.00295**	**1.3027**	**1.8677**	**.01087**
Stddev	.00030	.00004	.0072	.0340	.00059
%RSD	17.806	1.3535	.54959	1.8234	5.4498
#1	.00191	.00292	1.2977	1.8436	.01129
#2	.00148	.00298	1.3078	1.8917	.01045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-2-B Acquired: 8/28/2017 18:09:10 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.270**	**.04373**	**.00279**	**23.359**	**.00240**
Stddev	.066	.00006	.00011	.048	.00022
%RSD	.17825	.14559	4.0580	.20488	9.3188
#1	37.223	.04378	.00287	23.325	.00224
#2	37.317	.04369	.00271	23.393	.00256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**32.77**	**-.00161**	**-.00411**	**9.4586**
Stddev	.00147	.10	.00231	.00263	.0724
%RSD	167.36	.2907	143.74	64.091	.76534
#1	-.00016	32.84	-.00324	-.00597	9.4074
#2	.00192	32.70	.00003	-.00225	9.5098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.67632**	**.03359**	**-.00297**	**.00287**
Stddev	.00269	.00252	.00127	.00181	.00017
%RSD	364.92	.37269	3.7718	61.039	6.0372
#1	.00117	.67454	.03270	-.00426	.00274
#2	-.00264	.67810	.03449	-.00169	.00299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-2-B Acquired: 8/28/2017 18:09:10 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00781
Stddev	.00036
%RSD	4.6424
#1	.00806
#2	.00755
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1777.6	1455.8	57344.	4935.4
Stddev	1.8	4.0	11.	20.0
%RSD	.09944	.27518	.01977	.40511
#1	1778.8	1452.9	57352.	4949.6
#2	1776.3	1458.6	57336.	4921.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.882%	93.186%	94.123%	101.96%
Range				

Sample Name: 480-123215-G-3-B Acquired: 8/28/2017 18:12:43 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**1.4722**	**.00112**	**.09536**	**.05247**
Stddev	.00023	.0047	.00039	.00026	.00035
%RSD	52.306	.31679	35.184	.27370	.65861
#1	-.00059	1.4689	.00139	.09554	.05223
#2	-.00027	1.4755	.00084	.09517	.05271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**187.14**	**.00016**	**.0171**	**.00025**
Stddev	.00004	.48	.00004	.0103	.00014
%RSD	73.116	.25904	25.352	60.09	54.314
#1	.00008	187.49	.00013	.0244	.00015
#2	.00003	186.80	.00019	.0099	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.00267**	**1.5249**	**.98720**	**.00694**
Stddev	.00036	.00026	.0069	.00075	.00033
%RSD	17.225	9.9154	.45506	.07611	4.7963
#1	.00234	.00249	1.5298	.98667	.00718
#2	.00183	.00286	1.5200	.98773	.00671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-3-B Acquired: 8/28/2017 18:12:43 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.769**	**.04948**	**.00159**	**13.840**	**.00239**
Stddev	.095	.00007	.00034	.014	.00009
%RSD	.19469	.13852	21.108	.09852	3.5790
#1	48.702	.04943	.00135	13.850	.00245
#2	48.836	.04953	.00183	13.830	.00233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00306**	**67.87**	**-.00277**	**-.00169**	**8.6030**
Stddev	.00228	.02	.00188	.00795	.0342
%RSD	74.462	.0303	67.774	471.43	.39787
#1	.00467	67.88	-.00410	.00393	8.6272
#2	.00145	67.85	-.00144	-.00731	8.5788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00145**	**.59024**	**.04175**	**-.00108**	**.00347**
Stddev	.00027	.00010	.00207	.00001	.00003
%RSD	18.841	.01675	4.9691	.47172	.85313
#1	.00164	.59031	.04028	-.00109	.00345
#2	.00126	.59017	.04321	-.00108	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-3-B Acquired: 8/28/2017 18:12:43 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00728
Stddev	.00019
%RSD	2.6249
#1	.00715
#2	.00742
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1756.7	1442.5	57009.	4887.9
Stddev	1.3	.3	128.	1.2
%RSD	.07199	.01911	.22383	.02460
#1	1755.8	1442.3	57100.	4888.7
#2	1757.6	1442.7	56919.	4887.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.864%	92.334%	93.574%	100.98%
Range				

Sample Name: 480-123167-A-1-A Acquired: 8/28/2017 18:16:16 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.06861**	**.03124**	**.42813**	**.20969**
Stddev	.00057	.00169	.00048	.00076	.00019
%RSD	3114.6	2.4675	1.5352	.17838	.08938
#1	-.00039	.06741	.03158	.42759	.20982
#2	.00042	.06981	.03090	.42867	.20956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**259.58**	**.00045**	**-.0282**	**.00003**
Stddev	.00006	2.60	.00019	.0007	.00029
%RSD	106.41	1.0030	42.264	2.342	1134.3
#1	-.00001	261.42	.00032	-.0286	-.00018
#2	-.00010	257.74	.00059	-.0277	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.00075**	**47.467**	**11.768**	**.03974**
Stddev	.00016	.00027	.027	.042	.00010
%RSD	8.5086	35.912	.05699	.35869	.24844
#1	.00176	.00094	47.448	11.798	.03981
#2	.00199	.00056	47.486	11.739	.03967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-1-A Acquired: 8/28/2017 18:16:16 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**103.71**	**2.3941**	**.00166**	**82.233**	**.01114**
Stddev	.38	.0057	.00032	.410	.00090
%RSD	.36967	.23667	19.146	.49801	8.0957
#1	103.98	2.3981	.00143	82.523	.01051
#2	103.44	2.3901	.00188	81.944	.01178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00394**	F **101.6**	**-.00069**	**-.00725**	**25.404**
Stddev	.00271	.0	.00345	.00171	.041
%RSD	68.802	.0451	498.01	23.606	.15993
#1	.00585	101.6	-.00313	-.00604	25.432
#2	.00202	101.6	.00175	-.00846	25.375
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**1.0055**	**.00020**	**-.00327**	**.00077**
Stddev	.00004	.0034	.00028	.00248	.00003
%RSD	15.323	.34352	140.93	75.967	4.2108
#1	-.00025	1.0080	.00000	-.00151	.00075
#2	-.00031	1.0031	.00040	-.00502	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-1-A Acquired: 8/28/2017 18:16:16 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01274
Stddev	.00012
%RSD	.94063
#1	.01282
#2	.01265
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1648.8	1398.1	54949.	4844.4
Stddev	.5	2.5	142.	15.5
%RSD	.02809	.17921	.25894	.32085
#1	1648.5	1396.3	54848.	4833.4
#2	1649.1	1399.8	55049.	4855.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.590%	89.492%	90.192%	100.08%
Range				

Sample Name: 480-123167-A-1-Asd@5 Acquired: 8/28/2017 18:19:52 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.02419**	**.00467**	**.08230**	**.04184**
Stddev	.00050	.01632	.00414	.00017	.00008
%RSD	209.91	67.484	88.621	.21254	.18528
#1	-.00012	.01265	.00760	.08218	.04189
#2	.00060	.03573	.00174	.08243	.04178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**53.239**	**.00020**	**-.0414**	**-.00027**
Stddev	.00003	.214	.00016	.0043	.00000
%RSD	100.40	.40194	78.607	10.51	.33175
#1	-.00001	53.390	.00031	-.0444	-.00027
#2	-.00006	53.088	.00009	-.0383	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**-.00026**	**9.8683**	**2.2922**	**.00694**
Stddev	.00017	.00040	.0191	.0202	.00007
%RSD	23.044	155.04	.19325	.88015	.96582
#1	.00060	.00002	9.8818	2.3065	.00690
#2	.00084	-.00054	9.8549	2.2780	.00699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-1-Asd@5 Acquired: 8/28/2017 18:19:52 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.935**	**.47869**	**.00024**	**16.138**	**.00192**
Stddev	.014	.00077	.00025	.054	.00036
%RSD	.07113	.16100	102.92	.33498	18.831
#1	19.945	.47923	.00041	16.176	.00166
#2	19.925	.47814	.00007	16.100	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**18.81**	**-.00240**	**-.00596**	**4.9367**
Stddev	.00090	.03	.00099	.00298	.0229
%RSD	24805.	.1718	41.232	49.912	.46320
#1	-.00063	18.84	-.00310	-.00386	4.9528
#2	.00064	18.79	-.00170	-.00807	4.9205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.19935**	**.00006**	**-.00121**	**-.00010**
Stddev	.00053	.00071	.00027	.00168	.00007
%RSD	98.225	.35381	447.24	138.97	71.512
#1	-.00016	.19984	-.00013	-.00239	-.00016
#2	-.00091	.19885	.00025	-.00002	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-1-Asd@5 Acquired: 8/28/2017 18:19:52 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00205
Stddev	.00060
%RSD	29.222
#1	.00163
#2	.00248
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1864.1	1493.7	58483.	4877.9
Stddev	4.1	1.0	127.	25.8
%RSD	.22165	.06945	.21788	.52874
#1	1861.2	1493.0	58393.	4859.7
#2	1867.1	1494.5	58573.	4896.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.114%	95.617%	95.994%	100.78%
Range				

Sample Name: 480-123167-A-1-A pds Acquired: 8/28/2017 18:23:25 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05215**	**10.118**	**.25147**	**.62262**	**.40075**
Stddev	.00094	.002	.00076	.00027	.00028
%RSD	1.8099	.01870	.30142	.04299	.06945
#1	.05148	10.117	.25201	.62243	.40055
#2	.05282	10.119	.25094	.62281	.40095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20219**	**264.71**	**.21465**	**-.0195**	**.19794**
Stddev	.00027	.42	.00012	.0115	.00018
%RSD	.13411	.15951	.05381	59.00	.09121
#1	.20238	265.01	.21457	-.0113	.19782
#2	.20200	264.41	.21473	-.0276	.19807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19997**	**.21104**	**55.772**	**21.727**	**.24754**
Stddev	.00019	.00085	.086	.027	.00046
%RSD	.09488	.40145	.15415	.12595	.18648
#1	.19983	.21164	55.711	21.708	.24722
#2	.20010	.21044	55.833	21.747	.24787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-1-A pds Acquired: 8/28/2017 18:23:25 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**110.41**	**2.5068**	**.20323**	**89.946**	**.21311**
Stddev	.22	.0064	.00000	.036	.00010
%RSD	.20191	.25408	.00117	.04033	.04497
#1	110.25	2.5023	.20324	89.972	.21317
#2	110.57	2.5113	.20323	89.920	.21304
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21828**	F **108.6**	**.21487**	**.21087**	**34.965**
Stddev	.00350	.0	.00083	.00136	.102
%RSD	1.6023	.0087	.38749	.64371	.29108
#1	.22075	108.6	.21428	.20991	35.036
#2	.21581	108.5	.21546	.21183	34.893
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21324**	**1.1739**	**.20114**	**.20413**	**.20599**
Stddev	.00033	.0009	.00005	.00305	.00002
%RSD	.15348	.07595	.02633	1.4919	.01151
#1	.21348	1.1733	.20110	.20628	.20598
#2	.21301	1.1746	.20118	.20198	.20601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-1-A pds Acquired: 8/28/2017 18:23:25 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20691
Stddev	.00358
%RSD	1.7297
#1	.20438
#2	.20944
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1634.9	1403.2	55333.	4840.3
Stddev	1.6	.7	50.	39.0
%RSD	.09616	.04783	.09102	.80669
#1	1636.0	1403.7	55368.	4812.7
#2	1633.7	1402.7	55297.	4867.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.908%	89.820%	90.822%	100.000%
Range				

Sample Name: 480-123167-A-1-B MS Acquired: 8/28/2017 18:27:00 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04888**	**10.415**	**.24684**	**.63233**	**.40904**
Stddev	.00049	.063	.00174	.00291	.00047
%RSD	1.0094	.60544	.70672	.45987	.11556
#1	.04923	10.370	.24808	.63028	.40871
#2	.04853	10.460	.24561	.63439	.40937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20212**	**270.29**	**.21298**	**-.0257**	**.19797**
Stddev	.00020	2.96	.00007	.0167	.00003
%RSD	.10133	1.0968	.03108	64.93	.01462
#1	.20227	272.39	.21303	-.0139	.19795
#2	.20198	268.19	.21293	-.0375	.19799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19767**	**.20959**	**57.620**	**22.007**	**.24993**
Stddev	.00108	.00012	.122	.043	.00073
%RSD	.54386	.05836	.21210	.19439	.29186
#1	.19691	.20951	57.533	22.038	.24941
#2	.19843	.20968	57.706	21.977	.25045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-1-B MS Acquired: 8/28/2017 18:27:00 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**111.78**	**2.5427**	**.20838**	**92.188**	**.21452**
Stddev	.36	.0090	.00063	.081	.00032
%RSD	.32145	.35454	.30282	.08772	.15150
#1	111.52	2.5363	.20882	92.245	.21429
#2	112.03	2.5491	.20793	92.131	.21475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21495**	F **110.1**	**.20695**	**.20387**	**35.277**
Stddev	.00286	.1	.00034	.00649	.019
%RSD	1.3328	.0882	.16239	3.1855	.05427
#1	.21698	110.0	.20671	.19928	35.264
#2	.21293	110.2	.20718	.20846	35.291
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19435**	**1.2021**	**.20054**	**.20276**	**.20690**
Stddev	.00265	.0000	.00116	.00209	.00064
%RSD	1.3635	.00014	.57898	1.0295	.30821
#1	.19248	1.2021	.19972	.20423	.20645
#2	.19623	1.2021	.20136	.20128	.20735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-1-B MS Acquired: 8/28/2017 18:27:00 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20694**
Stddev	.00284
%RSD	1.3748
#1	.20492
#2	.20895
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1627.0**	**1402.0**	**54979.**	**4804.8**
Stddev	2.0	1.2	191.	2.9
%RSD	.12237	.08235	.34747	.06002
#1	1625.6	1402.8	55114.	4806.9
#2	1628.4	1401.2	54844.	4802.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.522%	89.743%	90.241%	99.266%
Range				

Sample Name: 480-123167-A-1-C MSD Acquired: 8/28/2017 18:30:35 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04960**	**10.236**	**.24678**	**.62394**	**.40470**
Stddev	.00065	.108	.00397	.00014	.00213
%RSD	1.3193	1.0595	1.6088	.02234	.52525
#1	.05006	10.159	.24397	.62404	.40621
#2	.04913	10.312	.24958	.62384	.40320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20429**	**267.42**	**.21555**	**-.0251**	**.20039**
Stddev	.00067	.55	.00044	.0122	.00065
%RSD	.32576	.20389	.20552	48.58	.32228
#1	.20382	267.81	.21524	-.0165	.20085
#2	.20476	267.04	.21587	-.0338	.19993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19924**	**.21360**	**56.463**	**21.854**	**.24873**
Stddev	.00039	.00057	.369	.066	.00072
%RSD	.19469	.26555	.65278	.30395	.28751
#1	.19952	.21320	56.203	21.807	.24822
#2	.19897	.21400	56.724	21.901	.24923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-1-C MSD Acquired: 8/28/2017 18:30:35 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**111.22**	**2.5300**	**.21075**	**90.736**	**.21797**
Stddev	.24	.0040	.00060	.245	.00061
%RSD	.21216	.15778	.28376	.26991	.27970
#1	111.39	2.5329	.21117	90.563	.21754
#2	111.05	2.5272	.21032	90.909	.21840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21942**	F **109.1**	**.21093**	**.21201**	**34.995**
Stddev	.00390	.0	.00356	.00085	.113
%RSD	1.7763	.0194	1.6855	.39964	.32268
#1	.21666	109.1	.21345	.21141	34.915
#2	.22217	109.1	.20842	.21261	35.075
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19686**	**1.1831**	**.20359**	**.20410**	**.20935**
Stddev	.00002	.0020	.00004	.00058	.00028
%RSD	.00883	.16903	.02104	.28294	.13419
#1	.19685	1.1817	.20356	.20451	.20955
#2	.19688	1.1846	.20362	.20369	.20915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-1-C MSD Acquired: 8/28/2017 18:30:35 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20646**
Stddev	.00088
%RSD	.42514
#1	.20708
#2	.20584
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1623.4**	**1397.8**	**54981.**	**4799.9**
Stddev	2.4	1.0	22.	7.1
%RSD	.14665	.06971	.03958	.14698
#1	1625.1	1398.5	54966.	4804.8
#2	1621.8	1397.1	54996.	4794.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.350%	89.476%	90.245%	99.164%
Range				

Sample Name: 480-123167-A-2-A Acquired: 8/28/2017 18:34:10 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.05690**	**.00128**	**.20296**	**.74008**
Stddev	.00001	.00066	.00036	.00061	.00032
%RSD	1.2524	1.1551	28.071	.30018	.04301
#1	.00067	.05736	.00154	.20253	.73986
#2	.00069	.05643	.00103	.20339	.74031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**146.91**	**.00036**	**.0007**	**.00037**
Stddev	.00000	.20	.00001	.0033	.00014
%RSD	7.3326	.13673	3.9070	473.4	37.241
#1	-.00004	146.77	.00035	.0030	.00027
#2	-.00004	147.05	.00037	-.0016	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00334**	**.00381**	**62.337**	**8.7275**	**.04122**
Stddev	.00030	.00014	.225	.0369	.00104
%RSD	9.0024	3.7582	.36051	.42311	2.5339
#1	.00355	.00391	62.178	8.7014	.04048
#2	.00313	.00371	62.495	8.7536	.04196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-2-A Acquired: 8/28/2017 18:34:10 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.274**	**1.4782**	**.00198**	**27.430**	**.00334**
Stddev	.068	.0004	.00031	.033	.00023
%RSD	.16505	.02939	15.624	.12186	7.0157
#1	41.322	1.4785	.00176	27.406	.00350
#2	41.225	1.4779	.00220	27.454	.00317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**4.328**	**-.00242**	**-.00675**	**25.865**
Stddev	.00012	.004	.00175	.00276	.002
%RSD	246.76	.0908	72.519	40.801	.00764
#1	-.00013	4.326	-.00118	-.00870	25.867
#2	.00004	4.331	-.00366	-.00481	25.864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00103**	**.50584**	**.00084**	**-.00225**	**.00005**
Stddev	.00104	.00088	.00017	.00009	.00001
%RSD	101.53	.17342	20.455	3.9005	17.759
#1	-.00029	.50522	.00096	-.00219	.00006
#2	-.00176	.50646	.00072	-.00231	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-2-A Acquired: 8/28/2017 18:34:10 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01126
Stddev	.00156
%RSD	13.839
#1	.01236
#2	.01016
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1747.9	1453.6	56928.	4853.5
Stddev	1.9	1.8	78.	28.2
%RSD	.10867	.12103	.13745	.58010
#1	1749.2	1454.8	56984.	4873.4
#2	1746.5	1452.3	56873.	4833.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.432%	93.044%	93.441%	100.27%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 18:37:49 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50823**	**24.009**	**.50466**	**.50650**	**.49772**	**.49871**	**24.928**	**.50171**
Stddev	.00080	.154	.00244	.00069	.00256	.00033	.039	.00034
%RSD	.15795	.64341	.48444	.13601	.51397	.06675	.15641	.06801
#1	.50766	24.118	.50293	.50699	.49953	.49895	24.956	.50147
#2	.50880	23.900	.50639	.50601	.49591	.49847	24.901	.50195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0118**	**.49005**	**.50398**	**.50435**	**24.401**	**25.171**	**.50016**	**25.096**
Stddev	.0010	.00126	.00088	.00117	.065	.088	.00285	.015
%RSD	8.363	.25735	.17486	.23109	.26706	.34792	.57039	.05992
#1	-.0125	.49094	.50460	.50352	24.447	25.233	.50218	25.106
#2	-.0111	.48916	.50335	.50517	24.355	25.109	.49814	25.085
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51324**	**.50481**	**24.945**	**.50162**	**.49837**	**25.41**	**.49476**	**.49915**
Stddev	.00045	.00044	.004	.00148	.00147	.02	.00220	.00428
%RSD	.08696	.08714	.01601	.29486	.29481	.0838	.44527	.85810
#1	.51292	.50512	24.948	.50266	.49733	25.39	.49320	.50218
#2	.51355	.50450	24.943	.50057	.49941	25.42	.49632	.49612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 18:37:49 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.560**	**.51404**	**.49598**	**.49896**	**.50701**	**.50102**	**.50389**
Stddev	.040	.00107	.00001	.00108	.00424	.00133	.00162
%RSD	.16359	.20869	.00221	.21718	.83645	.26585	.32076
#1	24.531	.51479	.49597	.49820	.50401	.50008	.50275
#2	24.588	.51328	.49599	.49973	.51001	.50196	.50504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1827.6**	**1504.6**	**58169.**	**4855.5**
Stddev	1.5	2.6	74.	4.6
%RSD	.07940	.17566	.12748	.09540
#1	1828.6	1506.5	58116.	4852.2
#2	1826.6	1502.8	58221.	4858.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 18:41:19 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**-.00625**	**.00002**	**.00075**	**.00000**	**-.00006**	**-.00207**	**-.00005**
Stddev	.00028	.01252	.00050	.00043	.00001	.00003	.00356	.00000
%RSD	240.68	200.34	2034.9	56.904	754.65	49.481	172.25	3.0928
#1	.00032	.00260	.00038	.00045	.00001	-.00008	-.00459	-.00006
#2	-.00008	-.01510	-.00033	.00105	-.00001	-.00004	.00045	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0101**	**-.00013**	**.00047**	**-.00012**	**.00249**	**.04575**	**.00019**	**.00195**
Stddev	.0068	.00002	.00002	.00026	.00026	.00682	.00154	.00203
%RSD	67.09	17.743	4.2800	224.88	10.538	14.904	802.12	103.93
#1	-.0053	-.00015	.00045	-.00030	.00267	.05058	-.00090	.00052
#2	-.0150	-.00012	.00048	.00007	.00230	.04093	.00128	.00338
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00023**	**.01674**	**-.00000**	**.00016**	**.0039**	**-.00192**	**.00241**
Stddev	.00003	.00002	.00417	.00047	.00077	.0011	.00068	.00126
%RSD	356.38	7.1592	24.904	16124.	471.99	27.94	35.376	52.109
#1	-.00003	-.00024	.01969	-.00033	-.00038	.0031	-.00241	.00330
#2	.00001	-.00021	.01379	.00033	.00071	.0046	-.00144	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 18:41:19 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01282**	**.00029**	**.00000**	**-.00002**	**-.00228**	**.00019**	**.00026**
Stddev	.00492	.00033	.00009	.00027	.00115	.00014	.00020
%RSD	38.381	113.90	10342.	1136.7	50.431	76.390	76.802
#1	-.01630	.00052	-.00006	-.00021	-.00147	.00009	.00040
#2	-.00934	.00006	.00007	.00017	-.00309	.00029	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2034.6**	**1549.4**	**61145.**	**4940.4**
Stddev	3.3	1.5	316.	14.5
%RSD	.16175	.09470	.51656	.29377
#1	2036.9	1550.5	60922.	4930.2
#2	2032.2	1548.4	61369.	4950.7

Sample Name: CCVL-4209929 Acquired: 8/28/2017 18:44:57 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00566**	**.18300**	W **.00914**	**.02052**	**.00217**	**.00202**	**.50875**
Stddev	.00041	.02457	.00065	.00046	.00001	.00010	.00637
%RSD	7.1694	13.428	7.1268	2.2617	.68202	4.9236	1.2530
#1	.00537	.20038	.00961	.02085	.00216	.00194	.50424
#2	.00595	.16563	.00868	.02020	.00218	.00209	.51326
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.01500				
Range			-30.000%				

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**-.0072**	**.00371**	**.00471**	**.01031**	**.05006**	**.53701**
Stddev	.00016	.0129	.00000	.00019	.00023	.00623	.00618
%RSD	7.3350	180.2	.03443	4.1317	2.2616	12.446	1.1504
#1	.00228	.0020	.00371	.00485	.01014	.04566	.54138
#2	.00206	-.0163	.00372	.00457	.01047	.05447	.53264
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03093**	**.20389**	**.00314**	**.01007**	**1.0295**	**.00970**	**.00956**
Stddev	.00012	.00035	.00006	.00005	.0097	.00002	.00149
%RSD	.39907	.17215	1.7982	.45927	.93947	.24806	15.551
#1	.03084	.20414	.00310	.01011	1.0226	.00968	.00851
#2	.03102	.20365	.00318	.01004	1.0363	.00971	.01061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Sample Name: CCVL-4209929 Acquired: 8/28/2017 18:44:57 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1971	.01937	.02261	.50673	.00923	.00502	.00471
Stddev	.0050	.00192	.00113	.00979	.00124	.00001	.00040
%RSD	2.548	9.9316	4.9829	1.9320	13.396	.10484	8.5266
#1	.1935	.01801	.02341	.51365	.00836	.00502	.00442
#2	.2006	.02073	.02181	.49981	.01011	.00501	.00499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm
Avg	.01652	.00500	.01114
Stddev	.00018	.00031	.00231
%RSD	1.0893	6.1136	20.756
#1	.01665	.00478	.00950
#2	.01639	.00521	.01277
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2023.3	1550.7	60775.	4905.2
Stddev	1.5	.3	13.	36.2
%RSD	.07611	.02200	.02192	.73880
#1	2022.2	1550.4	60784.	4930.8
#2	2024.4	1550.9	60765.	4879.5

Sample Name: 480-123167-A-3-A Acquired: 8/28/2017 18:48:34 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.11262**	**.00692**	**.12793**	**.84694**
Stddev	.00020	.00734	.00072	.00025	.00084
%RSD	56.251	6.5169	10.429	.19900	.09955
#1	.00049	.10743	.00641	.12775	.84754
#2	.00021	.11781	.00743	.12811	.84635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**158.80**	**.00027**	**-.0220**	**-.00014**
Stddev	.00003	.32	.00009	.0135	.00008
%RSD	108.92	.20395	33.918	61.31	56.939
#1	-.00001	158.57	.00021	-.0125	-.00020
#2	-.00004	159.03	.00034	-.0316	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00022**	**26.600**	**7.1310**	**.03420**
Stddev	.00040	.00025	.065	.0008	.00111
%RSD	97.913	111.26	.24465	.01158	3.2581
#1	.00013	.00040	26.554	7.1316	.03498
#2	.00069	.00005	26.646	7.1304	.03341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-3-A Acquired: 8/28/2017 18:48:34 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.042**	**2.1002**	**.00195**	**16.770**	**-.00001**
Stddev	.041	.0010	.00014	.021	.00037
%RSD	.10455	.04757	6.9739	.12461	3271.7
#1	39.071	2.1009	.00205	16.785	-.00027
#2	39.013	2.0995	.00185	16.755	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00304**	**.0843**	**-.00215**	**-.00451**	**24.543**
Stddev	.00088	.0017	.00222	.00395	.016
%RSD	29.050	2.006	102.92	87.500	.06469
#1	.00366	.0831	-.00372	-.00172	24.532
#2	.00241	.0854	-.00059	-.00730	24.554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.53491**	**.00036**	**-.00149**	**.00000**
Stddev	.00035	.00059	.00011	.00000	.00004
%RSD	297.95	.11034	29.834	.14177	1969.1
#1	.00036	.53533	.00044	-.00148	.00003
#2	-.00013	.53450	.00029	-.00149	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-3-A Acquired: 8/28/2017 18:48:34 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00353
Stddev	.00013
%RSD	3.7290
#1	.00343
#2	.00362
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1761.3	1457.7	56802.	4851.2
Stddev	3.0	.5	20.	.7
%RSD	.17181	.03120	.03460	.01448
#1	1759.2	1458.0	56788.	4851.7
#2	1763.5	1457.4	56816.	4850.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.090%	93.308%	93.234%	100.22%
Range				

Sample Name: 480-123167-A-4-A Acquired: 8/28/2017 18:52:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.08854**	**.00403**	**.29706**	**.09243**
Stddev	.00069	.00036	.00673	.00115	.00018
%RSD	404.89	.40393	166.94	.38730	.19558
#1	.00066	.08828	-.00073	.29787	.09231
#2	-.00032	.08879	.00879	.29625	.09256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**345.14**	**.00053**	F **-.0519**	**.00008**
Stddev	.00000	.18	.00054	.0000	.00006
%RSD	2.0751	.05138	100.89	.0828	80.215
#1	.00013	345.01	.00091	-.0519	.00012
#2	.00014	345.26	.00015	-.0518	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				3.000	
Low Limit				-.0500	

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**.05044**	**1.2013**	**12.647**	**.11685**
Stddev	.00047	.00034	.0019	.007	.00052
%RSD	50.814	.66562	.15918	.05497	.44472
#1	.00127	.05020	1.1999	12.642	.11722
#2	.00060	.05068	1.2026	12.652	.11648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-4-A Acquired: 8/28/2017 18:52:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**96.675**	**4.1766**	**.00066**	**48.011**	**.00303**
Stddev	.007	.0003	.00031	.098	.00012
%RSD	.00686	.00708	46.361	.20436	3.9027
#1	96.680	4.1768	.00088	47.941	.00294
#2	96.670	4.1764	.00044	48.080	.00311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00768**	F **226.5**	**-.00212**	**-.00804**	**21.295**
Stddev	.00243	.2	.00035	.00312	.047
%RSD	31.675	.0969	16.307	38.856	.22044
#1	.00940	226.6	-.00188	-.00583	21.262
#2	.00596	226.3	-.00236	-.01024	21.329
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01067**	**1.3250**	**.00368**	**-.00222**	**.00013**
Stddev	.00007	.0029	.00042	.00262	.00012
%RSD	.61048	.21832	11.436	118.36	87.965
#1	.01072	1.3230	.00397	-.00407	.00005
#2	.01063	1.3270	.00338	-.00036	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-4-A Acquired: 8/28/2017 18:52:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03754
Stddev	.00025
%RSD	.67121
#1	.03772
#2	.03736
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1647.8	1382.3	54583.	4777.1
Stddev	.2	.4	14.	7.6
%RSD	.01345	.02965	.02603	.15933
#1	1647.6	1382.0	54593.	4782.5
#2	1647.9	1382.6	54573.	4771.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.540%	88.481%	89.592%	98.693%
Range				

Sample Name: 480-123167-A-5-A Acquired: 8/28/2017 18:55:50 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.04902**	**.00231**	**.34036**	**.03050**
Stddev	.00000	.01117	.00523	.00018	.00013
%RSD	.03114	22.792	226.81	.05256	.42386
#1	.00042	.04112	.00600	.34049	.03041
#2	.00042	.05692	-.00139	.34024	.03059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**526.71**	**.00020**	F **-.1248**	**.00565**
Stddev	.00000	3.96	.00006	.0307	.00000
%RSD	37.463	.75211	30.067	24.58	.00115
#1	.00002	523.91	.00016	-.1031	.00565
#2	.00001	529.51	.00025	-.1465	.00565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				3.000	
Low Limit				-.0500	

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00502**	**.11225**	**14.725**	**.18366**
Stddev	.00094	.00022	.00316	.025	.00028
%RSD	125.11	4.4576	2.8140	.17065	.15240
#1	.00142	.00518	.11002	14.707	.18346
#2	.00009	.00486	.11449	14.743	.18385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-5-A Acquired: 8/28/2017 18:55:50 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**238.76**	**9.8650**	**.00112**	**88.291**	**.02602**
Stddev	.29	.0367	.00041	.068	.00039
%RSD	.12227	.37181	36.361	.07710	1.4809
#1	238.55	9.8390	.00141	88.243	.02575
#2	238.97	9.8909	.00083	88.339	.02630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01734**	F **689.2**	**-.00356**	**.00807**	**16.638**
Stddev	.00015	1.2	.00202	.00539	.071
%RSD	.89097	.1776	56.929	66.775	.42882
#1	.01745	690.1	-.00212	.00426	16.587
#2	.01723	688.4	-.00499	.01187	16.688
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**1.5191**	**-.00043**	**-.00513**	**-.00063**
Stddev	.00090	.0001	.00011	.00024	.00022
%RSD	100.73	.00405	26.389	4.7645	34.134
#1	.00026	1.5192	-.00051	-.00496	-.00079
#2	.00154	1.5191	-.00035	-.00530	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-5-A Acquired: 8/28/2017 18:55:50 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00503
Stddev	.00010
%RSD	1.9957
#1	.00510
#2	.00496
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1565.2	1336.4	52940.	4674.9
Stddev	.8	2.6	11.	28.6
%RSD	.05142	.19623	.02106	.61172
#1	1565.8	1334.6	52948.	4695.1
#2	1564.6	1338.3	52932.	4654.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.502%	85.547%	86.895%	96.582%
Range				

Sample Name: 480-123167-A-6-A Acquired: 8/28/2017 18:59:34 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.06019**	**-.00117**	**.11606**	**.05249**
Stddev	.00026	.04425	.00399	.00152	.00008
%RSD	85.199	73.516	340.91	1.3115	.14575
#1	.00012	.02890	-.00399	.11498	.05244
#2	.00048	.09148	.00165	.11714	.05254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**329.44**	**.00035**	**-.0423**	**.00007**
Stddev	.00005	.20	.00000	.0266	.00007
%RSD	499.51	.06018	.81156	62.95	93.759
#1	.00004	329.30	.00035	-.0235	.00002
#2	-.00002	329.58	.00035	-.0612	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00442**	**32.035**	**10.818**	**.07542**
Stddev	.00018	.00014	.036	.008	.00055
%RSD	33.984	3.1583	.11252	.07633	.72505
#1	.00066	.00452	32.060	10.824	.07503
#2	.00040	.00432	32.009	10.812	.07581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-6-A Acquired: 8/28/2017 18:59:34 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**128.40**	**5.4371**	**.00016**	**18.583**	**.00126**
Stddev	.08	.0045	.00024	.015	.00020
%RSD	.06370	.08246	147.76	.07936	15.501
#1	128.34	5.4339	.00033	18.573	.00112
#2	128.46	5.4403	-.00001	18.594	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00549**	F **275.7**	**-.00186**	**-.00735**	**17.069**
Stddev	.00312	.5	.00191	.00254	.042
%RSD	56.748	.1681	102.88	34.546	.24600
#1	.00770	275.4	-.00051	-.00915	17.099
#2	.00329	276.0	-.00321	-.00556	17.039
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**.62451**	**.00172**	**-.00355**	**.00063**
Stddev	.00148	.00008	.00023	.00084	.00026
%RSD	106.05	.01325	13.217	23.656	41.576
#1	.00035	.62456	.00189	-.00414	.00044
#2	.00243	.62445	.00156	-.00296	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-6-A Acquired: 8/28/2017 18:59:34 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00525
Stddev	.00153
%RSD	29.091
#1	.00417
#2	.00633
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1654.0	1391.2	54996.	4754.2
Stddev	5.0	1.0	127.	7.7
%RSD	.30106	.07529	.23020	.16173
#1	1650.5	1390.4	55085.	4748.8
#2	1657.6	1391.9	54906.	4759.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.845%	89.052%	90.269%	98.220%
Range				

Sample Name: 480-123167-A-7-A Acquired: 8/28/2017 19:03:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.84771**	**.07668**	**.06420**	**.08323**
Stddev	.00026	.02045	.00027	.00031	.00005
%RSD	28.482	2.4124	.35684	.48232	.06511
#1	.00110	.86217	.07687	.06398	.08319
#2	.00073	.83325	.07649	.06442	.08326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**345.49**	**.00044**	**.0040**	**.02918**
Stddev	.00008	1.62	.00002	.0191	.00007
%RSD	23.378	.46916	4.2960	481.6	.24305
#1	.00040	344.34	.00045	.0175	.02913
#2	.00029	346.63	.00042	-.0095	.02923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00149**	**.00261**	**92.616**	**6.7304**	**.05726**
Stddev	.00033	.00001	.250	.0148	.00006
%RSD	21.923	.41052	.27009	.21940	.09773
#1	.00126	.00260	92.439	6.7409	.05722
#2	.00172	.00262	92.792	6.7200	.05729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-7-A Acquired: 8/28/2017 19:03:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**86.107**	**2.7465**	**.00266**	**11.729**	**.03016**
Stddev	.030	.0027	.00073	.017	.00036
%RSD	.03445	.09898	27.336	.14436	1.1893
#1	86.086	2.7446	.00215	11.717	.03041
#2	86.128	2.7485	.00318	11.741	.02991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00359**	F **180.2**	**.00031**	**-.00261**	**24.719**
Stddev	.00179	.1	.00049	.00150	.019
%RSD	49.923	.0716	161.05	57.393	.07767
#1	.00232	180.3	.00065	-.00155	24.705
#2	.00486	180.1	-.00004	-.00367	24.732
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**.73646**	**.02720**	**-.00307**	**.00307**
Stddev	.00106	.00079	.00065	.00355	.00031
%RSD	113.88	.10772	2.4064	115.64	10.009
#1	-.00168	.73590	.02674	-.00056	.00286
#2	-.00018	.73702	.02766	-.00559	.00329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-7-A Acquired: 8/28/2017 19:03:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00503
Stddev	.00160
%RSD	31.874
#1	.00617
#2	.00390
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1649.6	1396.8	55068.	4787.9
Stddev	4.0	.2	234.	18.9
%RSD	.24075	.01647	.42524	.39398
#1	1652.4	1396.6	55233.	4801.2
#2	1646.8	1396.9	54902.	4774.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.630%	89.409%	90.387%	98.916%
Range				

Sample Name: 480-123167-A-8-A Acquired: 8/28/2017 19:06:49 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.13612**	**-.00048**	**.39004**	**.06423**
Stddev	.00034	.00210	.00258	.00067	.00018
%RSD	467.57	1.5427	537.36	.17159	.28164
#1	.00031	.13760	-.00230	.38957	.06436
#2	-.00017	.13463	.00134	.39051	.06410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**357.18**	**.00048**	**-.0286**	**.00186**
Stddev	.00003	1.14	.00018	.0208	.00001
%RSD	218.20	.32011	38.217	72.78	.26952
#1	-.00003	356.37	.00035	-.0139	.00186
#2	.00001	357.99	.00061	-.0433	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**.00184**	**6.7674**	**21.653**	**.10433**
Stddev	.00012	.00082	.0055	.058	.00100
%RSD	8.0889	44.386	.08088	.27002	.95476
#1	.00146	.00126	6.7713	21.611	.10363
#2	.00163	.00242	6.7636	21.694	.10503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-8-A Acquired: 8/28/2017 19:06:49 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**123.39**	**2.1405**	**.00046**	**64.801**	**.01803**
Stddev	.12	.0017	.00033	.234	.00055
%RSD	.09595	.08059	71.812	.36074	3.0226
#1	123.47	2.1418	.00069	64.636	.01765
#2	123.30	2.1393	.00022	64.967	.01842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00752**	F **270.1**	**-.00264**	**-.00789**	**19.198**
Stddev	.00172	.2	.00052	.01066	.029
%RSD	22.868	.0810	19.768	134.99	.15138
#1	.00874	270.3	-.00300	-.00036	19.177
#2	.00630	270.0	-.00227	-.01543	19.218
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**1.3132**	**.00457**	**-.00309**	**.00107**
Stddev	.00159	.0021	.00009	.00283	.00037
%RSD	204.02	.16188	1.9087	91.587	34.580
#1	.00190	1.3117	.00451	-.00109	.00081
#2	-.00034	1.3147	.00464	-.00508	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-8-A Acquired: 8/28/2017 19:06:49 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00332
Stddev	.00091
%RSD	27.321
#1	.00268
#2	.00396
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1629.0	1374.3	54166.	4766.3
Stddev	1.0	1.4	219.	7.5
%RSD	.06131	.10423	.40431	.15709
#1	1628.3	1373.3	54011.	4771.6
#2	1629.8	1375.3	54321.	4761.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.624%	87.972%	88.907%	98.471%
Range				

Sample Name: 480-123167-A-9-A Acquired: 8/28/2017 19:10:25 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.03353**	**-.00315**	**.27378**	**.62518**
Stddev	.00024	.00918	.00279	.00028	.00463
%RSD	62.558	27.392	88.517	.10130	.74048
#1	.00021	.02704	-.00513	.27398	.62845
#2	.00055	.04003	-.00118	.27359	.62190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**192.07**	**.00044**	**-.0112**	**.00104**
Stddev	.00009	.53	.00004	.0119	.00005
%RSD	202.41	.27667	7.9938	106.6	4.9849
#1	-.00011	191.69	.00047	-.0196	.00107
#2	.00002	192.44	.00042	-.0028	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00464**	**.00747**	**64.387**	**11.132**	**.10664**
Stddev	.00015	.00086	.315	.054	.00170
%RSD	3.1265	11.511	.48960	.48792	1.5970
#1	.00454	.00808	64.164	11.093	.10784
#2	.00474	.00686	64.610	11.170	.10543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-9-A Acquired: 8/28/2017 19:10:25 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.422**	**1.4025**	**.00159**	**41.634**	**.01972**
Stddev	.083	.0005	.00009	.174	.00041
%RSD	.12656	.03775	5.6142	.41783	2.0615
#1	65.363	1.4029	.00152	41.511	.02001
#2	65.480	1.4021	.00165	41.757	.01944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.2469**	**-.00215**	**-.00276**	**21.036**
Stddev	.00066	.0055	.00086	.00363	.030
%RSD	34.310	2.246	39.931	131.74	.14239
#1	.00239	.2430	-.00276	-.00532	21.015
#2	.00146	.2509	-.00154	-.00019	21.057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.96004**	**.00077**	**-.00356**	**.00050**
Stddev	.00198	.00305	.00019	.00029	.00038
%RSD	604.74	.31804	24.731	8.0987	76.290
#1	-.00107	.95788	.00091	-.00376	.00077
#2	.00172	.96220	.00064	-.00335	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-9-A Acquired: 8/28/2017 19:10:25 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04145**
Stddev	.00106
%RSD	2.5537
#1	.04070
#2	.04220
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1703.8**	**1428.9**	**56119.**	**4840.9**
Stddev	.3	1.2	184.	20.2
%RSD	.02046	.08393	.32751	.41796
#1	1703.5	1428.1	55989.	4855.2
#2	1704.0	1429.8	56249.	4826.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.276%	91.467%	92.113%	100.01%
Range				

Sample Name: 480-123167-A-10-A Acquired: 8/28/2017 19:14:04 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.06039**	**.00047**	**.30788**	**1.1041**
Stddev	.00056	.00780	.00432	.00012	.0010
%RSD	90.160	12.921	910.62	.03870	.09207
#1	.00102	.06590	.00353	.30779	1.1034
#2	.00023	.05487	-.00258	.30796	1.1048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**269.18**	**.00039**	**-.0159**	**-.00003**
Stddev	.00004	2.66	.00006	.0098	.00011
%RSD	55.072	.98777	14.023	61.88	421.86
#1	-.00010	271.06	.00035	-.0228	.00005
#2	-.00005	267.30	.00043	-.0089	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**.01910**	**30.448**	**12.923**	**.11532**
Stddev	.00031	.00033	.063	.021	.00065
%RSD	31.062	1.7517	.20533	.16209	.56135
#1	.00078	.01886	30.492	12.938	.11486
#2	.00122	.01934	30.403	12.909	.11577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-10-A Acquired: 8/28/2017 19:14:04 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**92.012**	**1.5742**	**.00102**	**51.038**	**.00071**
Stddev	.061	.0001	.00009	.080	.00020
%RSD	.06611	.00904	8.7187	.15725	28.102
#1	92.055	1.5741	.00095	50.981	.00057
#2	91.969	1.5743	.00108	51.095	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00127**	**.3729**	**-.00033**	**-.00926**	**25.759**
Stddev	.00246	.0033	.00251	.00507	.022
%RSD	193.96	.8852	765.52	54.721	.08579
#1	.00300	.3752	.00145	-.00568	25.775
#2	-.00047	.3705	-.00211	-.01284	25.744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00367**	**1.4730**	**.00110**	**-.00312**	**.00002**
Stddev	.00109	.0004	.00025	.00199	.00005
%RSD	29.748	.02847	22.644	63.573	297.24
#1	.00290	1.4733	.00092	-.00172	-.00002
#2	.00444	1.4727	.00128	-.00453	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-10-A Acquired: 8/28/2017 19:14:04 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04932
Stddev	.00156
%RSD	3.1708
#1	.05043
#2	.04822
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1658.7	1412.1	55201.	4816.8
Stddev	.5	.7	55.	22.8
%RSD	.02845	.05057	.10022	.47276
#1	1658.3	1412.6	55240.	4800.7
#2	1659.0	1411.6	55162.	4832.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.072%	90.389%	90.606%	99.513%
Range				

Sample Name: 480-123167-A-11-A Acquired: 8/28/2017 19:17:48 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.01370**	**.00080**	**.44893**	**1.0129**
Stddev	.00010	.00049	.00814	.00185	.0013
%RSD	14.158	3.5509	1018.2	.41222	.12889
#1	.00079	.01335	.00656	.44762	1.0138
#2	.00064	.01404	-.00496	.45024	1.0120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**244.00**	**.00010**	**.0262**	**-.00031**
Stddev	.00009	2.09	.00031	.0034	.00028
%RSD	187.69	.85796	322.41	13.03	89.793
#1	.00002	242.52	-.00012	.0238	-.00011
#2	-.00011	245.48	.00032	.0286	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.00031**	**25.183**	**10.766**	**.07332**
Stddev	.00046	.00011	.014	.007	.00015
%RSD	36.228	36.008	.05716	.06073	.20564
#1	.00095	.00023	25.173	10.771	.07342
#2	.00160	.00039	25.193	10.762	.07321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-11-A Acquired: 8/28/2017 19:17:48 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.502**	**.93360**	**.00031**	**73.185**	**.01576**
Stddev	.077	.00084	.00002	.179	.00057
%RSD	.09061	.09049	6.6724	.24503	3.6424
#1	84.556	.93419	.00029	73.058	.01617
#2	84.448	.93300	.00032	73.311	.01536
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.7675**	**-.00313**	**-.01048**	**20.018**
Stddev	.00244	.0045	.00060	.00544	.094
%RSD	118.82	.5855	19.349	51.890	.46830
#1	.00033	.7707	-.00355	-.01433	19.952
#2	.00377	.7643	-.00270	-.00663	20.084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**.83926**	**-.00001**	**-.00449**	**.00020**
Stddev	.00070	.00085	.00023	.00186	.00021
%RSD	64.553	.10118	2013.2	41.385	103.56
#1	-.00157	.83986	.00015	-.00318	.00034
#2	-.00059	.83866	-.00017	-.00580	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-11-A Acquired: 8/28/2017 19:17:48 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00264
Stddev	.00173
%RSD	65.632
#1	.00141
#2	.00386
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1663.5	1412.7	55423.	4823.9
Stddev	2.2	1.3	171.	33.1
%RSD	.13043	.09422	.30871	.68548
#1	1661.9	1411.8	55302.	4847.2
#2	1665.0	1413.6	55544.	4800.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.306%	90.429%	90.971%	99.660%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:21:33 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50953**	**24.099**	**.50087**	**.50628**	**.49531**	**.50087**	**24.950**	**.50303**
Stddev	.00012	.166	.00117	.00004	.00499	.00200	.077	.00046
%RSD	.02321	.68891	.23295	.00736	1.0080	.40029	.30852	.09118
#1	.50961	24.216	.50170	.50631	.49884	.50229	25.005	.50335
#2	.50944	23.981	.50005	.50626	.49178	.49945	24.896	.50270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0029**	**.48925**	**.50057**	**.50488**	**24.396**	**25.189**	**.50361**	**25.110**
Stddev	.0169	.00016	.00184	.00154	.058	.028	.00029	.082
%RSD	590.8	.03372	.36767	.30544	.23961	.11011	.05662	.32686
#1	-.0148	.48913	.49927	.50379	24.437	25.209	.50381	25.052
#2	.0091	.48937	.50188	.50597	24.354	25.169	.50340	25.168
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51323**	**.50422**	**25.035**	**.50083**	**.50034**	**25.40**	**.49599**	**.50312**
Stddev	.00143	.00107	.147	.00105	.00032	.02	.00015	.00779
%RSD	.27880	.21192	.58681	.20990	.06402	.0907	.03082	1.5485
#1	.51222	.50497	25.139	.50157	.50057	25.42	.49588	.49761
#2	.51425	.50346	24.931	.50009	.50012	25.39	.49609	.50863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:21:33 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.385**	**.51676**	**.49720**	**.49954**	**.50581**	**.49962**	**.50332**
Stddev	.006	.00050	.00129	.00127	.00251	.00174	.00250
%RSD	.02474	.09756	.25890	.25414	.49667	.34859	.49729
#1	24.380	.51712	.49811	.49864	.50758	.49839	.50155
#2	24.389	.51640	.49629	.50043	.50403	.50085	.50509
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1829.6**	**1505.5**	**58295.**	**4840.3**
Stddev	1.0	.0	33.	17.9
%RSD	.05329	.00312	.05692	.36973
#1	1830.3	1505.4	58318.	4827.7
#2	1828.9	1505.5	58272.	4853.0

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:25:03 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00625**	**.00248**	**.00025**	**.00000**	**-.00011**	**-.00120**	**.00003**
Stddev	.00015	.00733	.00288	.00072	.00002	.00000	.00322	.00021
%RSD	100.41	117.37	116.20	292.86	860.13	1.5359	267.21	853.20
#1	-.00026	-.01143	.00044	.00075	-.00001	-.00011	.00107	-.00013
#2	-.00004	-.00106	.00451	-.00026	.00001	-.00011	-.00348	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0083**	**-.00019**	**.00017**	**.00015**	**-.00182**	**.02962**	**.00008**	**-.00064**
Stddev	.0111	.00006	.00033	.00014	.00058	.02238	.00014	.00063
%RSD	133.9	33.457	192.50	91.529	32.207	75.542	160.67	98.052
#1	-.0162	-.00024	-.00006	.00005	-.00223	.04544	.00018	-.00020
#2	-.0004	-.00015	.00041	.00025	-.00140	.01380	-.00001	-.00108
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00012**	**.00203**	**.00006**	**-.00032**	**.0062**	**-.00025**	**.00029**
Stddev	.00001	.00007	.00403	.00024	.00048	.0022	.00038	.00799
%RSD	19.912	58.513	199.07	366.59	151.26	35.12	150.35	2794.6
#1	-.00006	.00017	-.00083	.00023	-.00066	.0046	-.00052	.00594
#2	-.00004	.00007	.00488	-.00010	.00002	.0077	.00002	-.00537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:25:03 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00409**	**.00007**	**.00005**	**.00008**	**-.00151**	**-.00011**	**-.00072**
Stddev	.01033	.00112	.00001	.00023	.00014	.00004	.00011
%RSD	252.54	1602.1	20.915	296.90	9.3867	35.468	15.272
#1	-.01139	.00086	.00004	-.00008	-.00162	-.00008	-.00064
#2	.00321	-.00072	.00006	.00024	-.00141	-.00014	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2041.8**	**1554.8**	**61116.**	**4942.8**
Stddev	4.1	1.2	191.	2.8
%RSD	.19912	.07854	.31203	.05746
#1	2044.7	1554.0	60982.	4944.8
#2	2038.9	1555.7	61251.	4940.8

Sample Name: CCVL-4209929 Acquired: 8/28/2017 19:28:41 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00616**	**.19289**	**.01431**	**.02028**	**.00214**	**.00205**	**.50531**	**.00219**
Stddev	.00000	.01630	.00137	.00000	.00002	.00000	.00681	.00004
%RSD	.02036	8.4505	9.5571	.00104	1.0465	.01591	1.3471	1.7030
#1	.00616	.18136	.01334	.02028	.00213	.00205	.50050	.00217
#2	.00616	.20441	.01527	.02028	.00216	.00205	.51013	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0028**	**.00374**	**.00433**	**.01014**	**.04691**	**.53617**	**.02997**	**.20087**
Stddev	.0231	.00029	.00002	.00001	.00113	.00800	.00052	.00537
%RSD	812.1	7.8685	.44048	.13456	2.4049	1.4926	1.7467	2.6749
#1	.0135	.00395	.00435	.01013	.04611	.54183	.02960	.19707
#2	-.0192	.00353	.00432	.01015	.04770	.53051	.03034	.20467
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00315**	**.01012**	**1.0284**	**.00975**	**.01045**	**.2041**	**.01834**	**.02613**
Stddev	.00002	.00023	.0003	.00015	.00030	.0041	.00221	.00147
%RSD	.53653	2.3128	.02918	1.5720	2.8864	2.004	12.069	5.6071
#1	.00316	.01029	1.0286	.00964	.01066	.2070	.01677	.02510
#2	.00314	.00996	1.0282	.00986	.01023	.2012	.01990	.02717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-4209929 Acquired: 8/28/2017 19:28:41 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.49814**	**.00910**	**.00509**	**.00481**	**.01756**	**.00523**	**.01153**
Stddev	.00723	.00079	.00006	.00023	.00022	.00014	.00061
%RSD	1.4519	8.6644	1.1536	4.8513	1.2743	2.6458	5.2507
#1	.49303	.00854	.00505	.00465	.01772	.00533	.01111
#2	.50326	.00966	.00513	.00498	.01740	.00513	.01196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2030.3**	**1557.7**	**61113.**	**4928.7**
Stddev	1.4	.1	121.	8.0
%RSD	.06766	.00581	.19807	.16200
#1	2029.3	1557.6	61027.	4934.3
#2	2031.2	1557.7	61198.	4923.1

Sample Name: 480-123167-A-12-A Acquired: 8/28/2017 19:32:18 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.03360**	**.00174**	**.36536**	**.19976**
Stddev	.00024	.01790	.00540	.00140	.00046
%RSD	44.648	53.266	310.85	.38206	.22996
#1	.00071	.04625	-.00208	.36635	.20009
#2	.00037	.02094	.00556	.36437	.19944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**320.56**	**.00063**	**-.0047**	**-.00063**
Stddev	.00006	1.24	.00027	.0185	.00023
%RSD	198.52	.38677	42.919	398.0	36.108
#1	.00001	321.44	.00082	-.0178	-.00078
#2	-.00007	319.69	.00044	.0084	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00135**	**10.261**	**13.684**	**.09726**
Stddev	.00064	.00023	.024	.064	.00012
%RSD	119.13	17.291	.23088	.46701	.12014
#1	.00098	.00152	10.278	13.729	.09734
#2	.00008	.00119	10.244	13.639	.09717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-12-A Acquired: 8/28/2017 19:32:18 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.554**	**1.1778**	**.00018**	**59.305**	**-.00008**
Stddev	.118	.0006	.00003	.117	.00015
%RSD	.13474	.05510	18.963	.19786	187.92
#1	87.637	1.1783	.00016	59.388	-.00018
#2	87.471	1.1774	.00021	59.222	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00535**	**87.53**	**-.00030**	**-.00661**	**20.680**
Stddev	.00055	.00	.00073	.00449	.009
%RSD	10.311	.0053	246.35	67.939	.04375
#1	.00496	87.54	-.00081	-.00343	20.673
#2	.00574	87.53	.00022	-.00978	20.686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**1.1588**	**.00002**	**-.00453**	**.00035**
Stddev	.00159	.0023	.00012	.00267	.00021
%RSD	803.46	.19475	695.46	58.920	60.202
#1	.00133	1.1604	-.00007	-.00641	.00020
#2	-.00093	1.1572	.00010	-.00264	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-12-A Acquired: 8/28/2017 19:32:18 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00238
Stddev	.00101
%RSD	42.622
#1	.00310
#2	.00166
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1660.2	1397.6	54917.	4795.9
Stddev	1.5	.2	45.	16.3
%RSD	.09182	.01593	.08109	.34056
#1	1659.2	1397.5	54885.	4784.4
#2	1661.3	1397.8	54948.	4807.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.149%	89.465%	90.140%	99.082%
Range				

Sample Name: 480-123167-A-13-A Acquired: 8/28/2017 19:35:55 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.29432**	**.00563**	**.56873**	**.24275**
Stddev	.00022	.00148	.00298	.00066	.00097
%RSD	26.072	.50441	53.017	.11646	.40086
#1	.00068	.29537	.00774	.56920	.24206
#2	.00098	.29327	.00352	.56826	.24344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**138.17**	**.00056**	**-.0181**	**.00240**
Stddev	.00002	1.18	.00019	.0029	.00016
%RSD	70.186	.85052	34.329	16.17	6.8303
#1	-.00004	137.33	.00042	-.0201	.00252
#2	-.00001	139.00	.00069	-.0160	.00228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**.00066**	**11.261**	**19.253**	**.03183**
Stddev	.00035	.00002	.070	.106	.00067
%RSD	18.100	2.9598	.62275	.54843	2.1170
#1	.00216	.00068	11.212	19.178	.03231
#2	.00167	.00065	11.311	19.327	.03135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-13-A Acquired: 8/28/2017 19:35:55 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.040**	**1.1874**	**.00044**	**90.808**	**.03265**
Stddev	.169	.0049	.00011	.077	.00033
%RSD	.38368	.40869	24.390	.08523	1.0158
#1	43.921	1.1840	.00052	90.753	.03289
#2	44.160	1.1908	.00037	90.863	.03242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00302**	**12.32**	**-.00272**	**-.00951**	**15.273**
Stddev	.00037	.01	.00001	.00436	.105
%RSD	12.392	.0878	.48460	45.844	.68653
#1	.00275	12.31	-.00273	-.01259	15.199
#2	.00328	12.32	-.00271	-.00642	15.348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.48664**	**.01132**	**-.00112**	**.00312**
Stddev	.00081	.00097	.00003	.00007	.00026
%RSD	142.05	.19852	.26337	6.6278	8.1993
#1	-.00114	.48596	.01134	-.00107	.00294
#2	.00000	.48732	.01130	-.00117	.00330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-13-A Acquired: 8/28/2017 19:35:55 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00277
Stddev	.00070
%RSD	25.322
#1	.00228
#2	.00327
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1728.4	1450.8	56643.	4893.7
Stddev	2.3	.4	116.	59.6
%RSD	.13050	.02589	.20448	1.2175
#1	1730.0	1451.1	56725.	4935.8
#2	1726.8	1450.6	56561.	4851.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.479%	92.870%	92.972%	101.10%
Range				

Sample Name: 480-123167-A-14-A Acquired: 8/28/2017 19:39:26 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.06554**	**.06612**	**4.5013**	**.54522**
Stddev	.00026	.00016	.00709	.0033	.00138
%RSD	64.940	.24737	10.724	.07417	.25309
#1	.00022	.06543	.07113	4.5037	.54424
#2	.00059	.06566	.06110	4.4990	.54619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**272.54**	**.00034**	**.0035**	**.01912**
Stddev	.00009	2.78	.00005	.0103	.00004
%RSD	276.95	1.0200	13.866	290.5	.18746
#1	-.00009	274.51	.00030	-.0037	.01910
#2	.00003	270.58	.00037	.0108	.01915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02694**	**.00084**	**5.9076**	**88.085**	**.07896**
Stddev	.00026	.00006	.0075	.228	.00124
%RSD	.97756	7.5470	.12634	.25861	1.5680
#1	.02712	.00089	5.9129	87.924	.07809
#2	.02675	.00080	5.9024	88.246	.07984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-14-A Acquired: 8/28/2017 19:39:26 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**137.41**	**.78577**	**.00271**	**759.10**	**.10909**
Stddev	.30	.00187	.00032	1.11	.00059
%RSD	.22121	.23758	11.920	.14635	.53828
#1	137.62	.78709	.00248	758.31	.10868
#2	137.19	.78445	.00293	759.88	.10951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00581**	F **104.8**	**.00180**	**-.01598**	**24.798**
Stddev	.00163	.2	.00433	.00023	.041
%RSD	28.096	.1971	241.44	1.4355	.16606
#1	.00466	104.9	-.00127	-.01614	24.827
#2	.00696	104.6	.00486	-.01581	24.769
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00263**	**1.4103**	**.02192**	**.00089**	**.01029**
Stddev	.00081	.0053	.00032	.00303	.00022
%RSD	30.976	.37468	1.4425	339.07	2.1149
#1	.00205	1.4066	.02214	-.00125	.01013
#2	.00321	1.4141	.02170	.00303	.01044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-14-A Acquired: 8/28/2017 19:39:26 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00522**
Stddev	.00104
%RSD	19.924
#1	.00448
#2	.00596
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1496.4**	**1328.8**	**51834.**	**4749.3**
Stddev	.3	3.5	12.	5.6
%RSD	.02186	.26253	.02294	.11803
#1	1496.7	1326.3	51842.	4745.4
#2	1496.2	1331.3	51825.	4753.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.142%	85.058%	85.079%	98.120%
Range				

Sample Name: 480-123167-A-15-A Acquired: 8/28/2017 19:43:14 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00128**	**.08593**	**.12403**	**.96193**	**.16293**
Stddev	.00018	.01514	.00585	.00216	.00070
%RSD	13.755	17.622	4.7131	.22439	.43247
#1	.00140	.09663	.11989	.96040	.16244
#2	.00115	.07522	.12816	.96346	.16343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**367.16**	**.00022**	**-.0299**	**.00221**
Stddev	.00003	1.07	.00007	.0084	.00022
%RSD	326.14	.29222	31.048	28.09	10.001
#1	.00003	366.40	.00026	-.0239	.00237
#2	-.00001	367.92	.00017	-.0358	.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00166**	**-.00021**	**76.769**	**35.097**	**.04946**
Stddev	.00053	.00009	.572	.152	.00016
%RSD	31.901	42.381	.74532	.43204	.32301
#1	.00129	-.00028	76.364	34.990	.04957
#2	.00204	-.00015	77.174	35.204	.04934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-15-A Acquired: 8/28/2017 19:43:14 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**96.462**	**5.1236**	**.00041**	**130.49**	**.02160**
Stddev	.045	.0043	.00011	.30	.00029
%RSD	.04701	.08319	27.481	.23101	1.3526
#1	96.430	5.1206	.00033	130.28	.02180
#2	96.494	5.1266	.00049	130.71	.02139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00499**	F **256.9**	**-.00101**	**-.01388**	**22.225**
Stddev	.00104	.5	.00003	.00205	.052
%RSD	20.895	.1871	3.0061	14.747	.23207
#1	.00426	256.6	-.00103	-.01533	22.188
#2	.00573	257.2	-.00099	-.01244	22.261
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**1.0361**	**.00282**	**-.00339**	**.00141**
Stddev	.00010	.0043	.00009	.00054	.00026
%RSD	16.102	.41930	3.1906	16.016	18.138
#1	.00057	1.0330	.00289	-.00300	.00159
#2	.00071	1.0392	.00276	-.00377	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123167-A-15-A Acquired: 8/28/2017 19:43:14 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00667
Stddev	.00159
%RSD	23.838
#1	.00554
#2	.00779
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1601.6	1374.4	54122.	4769.5
Stddev	.7	2.5	52.	2.8
%RSD	.04325	.17969	.09572	.05911
#1	1602.1	1376.2	54085.	4771.5
#2	1601.2	1372.7	54158.	4767.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.284%	87.979%	88.834%	98.537%
Range				

Sample Name: 480-123222-C-1-A Acquired: 8/28/2017 19:46:51 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.16689**	**-.00221**	**.06562**	**.00421**
Stddev	.00074	.01671	.00419	.00076	.00001
%RSD	208.85	10.014	189.35	1.1577	.15156
#1	-.00017	.15507	-.00517	.06616	.00422
#2	.00087	.17871	.00075	.06509	.00421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**26.009**	**.00015**	**-.0090**	**-.00036**
Stddev	.00005	.041	.00018	.0108	.00021
%RSD	688.37	.15868	117.06	119.6	58.277
#1	-.00004	25.980	.00003	-.0166	-.00021
#2	.00003	26.038	.00027	-.0014	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00175**	**.00133**	**.10729**	**1.9299**	**.00024**
Stddev	.00022	.00026	.00054	.0025	.00029
%RSD	12.665	19.579	.50349	.12723	119.64
#1	.00191	.00151	.10767	1.9281	.00004
#2	.00159	.00115	.10691	1.9316	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123222-C-1-A Acquired: 8/28/2017 19:46:51 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.591**	**.00582**	**.00013**	**5.6648**	**.00059**
Stddev	.012	.00007	.00008	.0004	.00010
%RSD	.10215	1.2123	60.599	.00609	17.227
#1	11.600	.00587	.00018	5.6645	.00052
#2	11.583	.00577	.00007	5.6650	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00163**	**4.881**	**-.00122**	**-.00247**	**13.895**
Stddev	.00111	.003	.00042	.00149	.016
%RSD	68.231	.0505	34.107	60.282	.11715
#1	.00241	4.880	-.00093	-.00352	13.883
#2	.00084	4.883	-.00152	-.00142	13.906
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.07467**	**.00501**	**-.00258**	**.00165**
Stddev	.00044	.00034	.00006	.00076	.00025
%RSD	124.13	.44880	1.2050	29.486	15.291
#1	-.00004	.07491	.00506	-.00312	.00183
#2	-.00066	.07443	.00497	-.00204	.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123222-C-1-A Acquired: 8/28/2017 19:46:51 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00348
Stddev	.00016
%RSD	4.5063
#1	.00337
#2	.00359
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1938.6	1527.2	59828.	4953.4
Stddev	6.3	2.3	29.	.7
%RSD	.32306	.14926	.04854	.01479
#1	1943.1	1528.8	59807.	4952.9
#2	1934.2	1525.6	59848.	4954.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.755%	97.758%	98.201%	102.34%
Range				

Sample Name: 480-123222-C-2-A Acquired: 8/28/2017 19:50:27 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.30838**	**-.00360**	**.13476**	**.00389**
Stddev	.00007	.00428	.00305	.00075	.00000
%RSD	21.703	1.3869	84.531	.55995	.01913
#1	.00027	.30536	-.00145	.13529	.00389
#2	.00036	.31140	-.00576	.13423	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**29.589**	**.00033**	**.0120**	**-.00015**
Stddev	.00003	.102	.00017	.0073	.00013
%RSD	48.495	.34609	52.858	60.68	87.981
#1	-.00007	29.516	.00020	.0171	-.00006
#2	-.00003	29.661	.00045	.0068	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00169**	**.00294**	**.18587**	**1.1453**	**.00361**
Stddev	.00038	.00029	.00420	.0136	.00018
%RSD	22.466	9.9189	2.2581	1.1841	4.9059
#1	.00142	.00274	.18290	1.1357	.00374
#2	.00196	.00315	.18884	1.1549	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123222-C-2-A Acquired: 8/28/2017 19:50:27 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.264**	**.02829**	**-.00011**	**5.6881**	**.00083**
Stddev	.044	.00018	.00032	.0253	.00010
%RSD	.35728	.64654	279.77	.44474	12.264
#1	12.233	.02816	.00011	5.6703	.00076
#2	12.295	.02842	-.00034	5.7060	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00312**	**4.670**	**-.00003**	**-.00748**	**16.934**
Stddev	.00179	.012	.00073	.00167	.077
%RSD	57.348	.2497	2886.5	22.318	.45592
#1	.00438	4.662	-.00054	-.00866	16.880
#2	.00185	4.678	.00049	-.00630	16.989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.07173**	**.01652**	**-.00253**	**.00294**
Stddev	.00041	.00012	.00000	.00012	.00026
%RSD	163.90	.16852	.01794	4.6866	8.8305
#1	.00004	.07165	.01652	-.00261	.00276
#2	-.00054	.07182	.01652	-.00245	.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123222-C-2-A Acquired: 8/28/2017 19:50:27 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.05567
Stddev	.00139
%RSD	2.4942
#1	.05665
#2	.05468
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1946.9	1539.2	59682.	4932.1
Stddev	2.0	1.4	195.	27.8
%RSD	.10243	.09345	.32698	.56295
#1	1948.3	1540.2	59544.	4951.8
#2	1945.5	1538.2	59820.	4912.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.160%	98.528%	97.960%	101.90%
Range				

Sample Name: blank Acquired: 8/28/2017 19:54:01 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00324**	**-.00694**	**.00102**	**-.00001**
Stddev	.00030	.00582	.00313	.00026	.00001
%RSD	94.819	179.41	45.080	25.054	279.28
#1	.00054	-.00087	-.00473	.00084	-.00002
#2	.00011	.00736	-.00915	.00121	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00182**	**.00007**	**-.0212**	**-.00019**
Stddev	.00005	.00079	.00010	.0139	.00003
%RSD	44.441	43.311	145.63	65.61	16.727
#1	-.00008	-.00126	-.00000	-.0310	-.00021
#2	-.00015	-.00237	.00014	-.0113	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00008**	**.00090**	**.03406**	**-.00029**
Stddev	.00012	.00012	.00025	.01170	.00077
%RSD	234.31	144.39	27.610	34.354	268.17
#1	.00013	.00016	.00108	.02579	.00026
#2	-.00003	-.00000	.00073	.04233	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 19:54:01 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00163**	**.00003**	**-.00008**	**.01717**	**-.00025**
Stddev	.00031	.00002	.00002	.00098	.00003
%RSD	18.854	60.402	22.851	5.6952	12.788
#1	-.00142	.00004	-.00009	.01786	-.00023
#2	-.00185	.00002	-.00006	.01648	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.0057**	**-.00047**	**.00477**	**-.01099**
Stddev	.00006	.0005	.00318	.00416	.01341
%RSD	13.179	8.115	676.01	87.165	122.01
#1	.00046	.0060	.00178	.00183	-.02047
#2	.00038	.0053	-.00272	.00772	-.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.00007**	**.00007**	**-.00205**	**-.00028**
Stddev	.00012	.00001	.00006	.00161	.00022
%RSD	20.032	8.7386	90.657	78.730	80.843
#1	-.00069	.00007	.00003	-.00091	-.00012
#2	-.00052	.00008	.00012	-.00319	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 19:54:01 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00004**
Stddev	.00070
%RSD	1746.9
#1	.00045
#2	-.00053
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2044.1**	**1559.6**	**60513.**	**4885.1**
Stddev	2.9	1.1	234.	1.7
%RSD	.14122	.07372	.38647	.03510
#1	2042.0	1558.8	60347.	4886.3
#2	2046.1	1560.4	60678.	4883.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.909%	99.832%	99.325%	100.92%
Range				

Sample Name: MB 480-374153/1-A Acquired: 8/28/2017 19:57:38 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.03572**	**.00098**	**.00489**	**.00007**
Stddev	.00034	.00476	.00038	.00009	.00001
%RSD	73.985	13.338	38.807	1.7593	15.187
#1	.00022	.03235	.00125	.00483	.00007
#2	.00070	.03908	.00071	.00495	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.06223**	**.00001**	**-.0100**	**-.00006**
Stddev	.00003	.00314	.00014	.0119	.00006
%RSD	43.287	5.0436	1834.6	118.5	107.24
#1	-.00009	.06445	-.00009	-.0184	-.00010
#2	-.00005	.06001	.00010	-.0016	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00018**	**.00334**	**.04618**	**.00015**
Stddev	.00011	.00008	.00317	.01441	.00009
%RSD	84.981	45.245	94.750	31.207	58.995
#1	.00005	.00024	.00110	.03599	.00009
#2	.00020	.00012	.00558	.05637	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-374153/1-A Acquired: 8/28/2017 19:57:38 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00210**	**.00120**	**-.00013**	**.06142**	**.00002**
Stddev	.00016	.00007	.00017	.00265	.00007
%RSD	7.4900	5.4140	123.57	4.3098	289.25
#1	.00199	.00125	-.00025	.06329	.00007
#2	.00221	.00116	-.00002	.05955	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**.0111**	**-.00089**	**-.00219**	**-.00900**
Stddev	.00084	.0115	.00002	.00231	.00397
%RSD	109.55	103.8	2.3212	105.68	44.130
#1	-.00017	.0193	-.00087	-.00383	-.00619
#2	-.00135	.0030	-.00090	-.00055	-.01181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00102**	**.00042**	**.00030**	**-.00107**	**.00001**
Stddev	.00097	.00001	.00002	.00031	.00005
%RSD	95.779	1.7494	8.1070	28.927	586.34
#1	-.00033	.00041	.00028	-.00085	-.00003
#2	-.00170	.00042	.00032	-.00129	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-374153/1-A Acquired: 8/28/2017 19:57:38 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00076
Stddev	.00036
%RSD	47.872
#1	.00101
#2	.00050
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2041.3	1563.1	61121.	4982.3
Stddev	.5	.3	205.	31.1
%RSD	.02323	.01679	.33571	.62493
#1	2041.7	1563.0	61266.	4960.3
#2	2041.0	1563.3	60976.	5004.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.776%	100.06%	100.32%	102.93%
Range				

Sample Name: LCS 480-374153/2-A Acquired: 8/28/2017 20:01:14 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04785**	**10.101**	**.20623**	**.21692**	**.20983**
Stddev	.00010	.001	.00171	.00075	.00023
%RSD	.21138	.00544	.82870	.34557	.11107
#1	.04778	10.102	.20743	.21745	.20999
#2	.04792	10.101	.20502	.21639	.20966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20346**	**10.309**	**.20567**	**.0069**	**.19281**
Stddev	.00072	.037	.00057	.0049	.00009
%RSD	.35382	.35773	.27910	71.76	.04551
#1	.20296	10.283	.20607	.0034	.19275
#2	.20397	10.335	.20526	.0104	.19287
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20225**	**.20597**	**10.450**	**10.336**	**.20661**
Stddev	.00075	.00030	.022	.018	.00207
%RSD	.37190	.14478	.20893	.17275	1.0040
#1	.20278	.20618	10.434	10.324	.20514
#2	.20172	.20576	10.465	10.349	.20807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-374153/2-A Acquired: 8/28/2017 20:01:14 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.501**	**.21463**	**.20751**	**10.591**	**.19987**
Stddev	.018	.00024	.00033	.042	.00021
%RSD	.17348	.11248	.15934	.39955	.10464
#1	10.488	.21480	.20774	10.561	.19972
#2	10.514	.21446	.20728	10.621	.20002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20669**	**10.08**	**.20015**	**.20022**	**10.135**
Stddev	.00084	.03	.00057	.00357	.003
%RSD	.40445	.2519	.28639	1.7825	.03170
#1	.20610	10.10	.19975	.20275	10.138
#2	.20728	10.06	.20056	.19770	10.133
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18689**	**.20329**	**.20192**	**.20440**	**.20747**
Stddev	.00071	.00046	.00003	.00110	.00042
%RSD	.37938	.22614	.01464	.53823	.20330
#1	.18739	.20297	.20190	.20518	.20717
#2	.18639	.20362	.20194	.20362	.20777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-374153/2-A Acquired: 8/28/2017 20:01:14 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20778**
Stddev	.00076
%RSD	.36453
#1	.20832
#2	.20725
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1920.3**	**1537.3**	**59262.**	**4919.6**
Stddev	2.5	1.7	96.	14.6
%RSD	.12817	.11178	.16212	.29763
#1	1918.5	1536.1	59195.	4930.0
#2	1922.0	1538.5	59330.	4909.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.857%	98.404%	97.272%	101.64%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 20:04:40 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51055**	**23.965**	**.50445**	**.50555**	**.49801**	**.49702**	**24.940**	**.50212**
Stddev	.00015	.066	.00340	.00083	.00098	.00008	.044	.00078
%RSD	.02953	.27435	.67354	.16486	.19619	.01522	.17655	.15605
#1	.51066	23.919	.50204	.50614	.49870	.49707	24.909	.50267
#2	.51045	24.012	.50685	.50496	.49732	.49696	24.971	.50156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0072**	**.49028**	**.50294**	**.50516**	**24.280**	**25.230**	**.50078**	**25.172**
Stddev	.0145	.00025	.00053	.00029	.048	.008	.00075	.033
%RSD	201.0	.05194	.10485	.05681	.19788	.03034	.15052	.13210
#1	-.0175	.49046	.50331	.50496	24.314	25.235	.50131	25.196
#2	.0030	.49010	.50256	.50536	24.246	25.224	.50024	25.149
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51481**	**.50621**	**24.884**	**.50195**	**.50029**	**25.37**	**.49767**	**.50300**
Stddev	.00008	.00074	.008	.00040	.00465	.00	.00081	.00444
%RSD	.01597	.14570	.03406	.08032	.92930	.0062	.16236	.88277
#1	.51475	.50673	24.878	.50166	.50358	25.37	.49710	.50614
#2	.51487	.50569	24.890	.50223	.49700	25.36	.49824	.49986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 20:04:40 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.240**	**.51806**	**.49492**	**.50148**	**.50890**	**.50207**	**.50438**
Stddev	.128	.00033	.00010	.00060	.00133	.00047	.00118
%RSD	.52805	.06441	.01946	.11952	.26197	.09394	.23342
#1	24.149	.51830	.49499	.50105	.50984	.50174	.50355
#2	24.330	.51783	.49485	.50190	.50796	.50240	.50521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1836.3**	**1512.7**	**58269.**	**4859.4**
Stddev	2.9	3.2	14.	6.3
%RSD	.15882	.21306	.02441	.12994
#1	1834.2	1510.4	58259.	4855.0
#2	1838.3	1515.0	58279.	4863.9

Sample Name: CCB-4204839 Acquired: 8/28/2017 20:08:09 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.02045**	**-.00086**	**.00041**	**-.00001**	**-.00004**	**-.00246**	**-.00011**
Stddev	.00027	.01232	.00489	.00031	.00001	.00003	.00099	.00000
%RSD	167.92	60.258	568.30	76.006	108.41	71.702	40.273	3.0128
#1	-.00003	-.01173	-.00432	.00019	-.00000	-.00007	-.00317	-.00010
#2	.00035	-.02916	.00260	.00063	-.00002	-.00002	-.00176	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040**	**-.00006**	**-.00004**	**.00020**	**-.00282**	**.04051**	**.00051**	**.00328**
Stddev	.0105	.00006	.00058	.00031	.00121	.00126	.00089	.00092
%RSD	260.6	108.50	1456.5	158.22	43.146	3.1168	172.61	28.092
#1	.0115	-.00010	-.00045	-.00002	-.00367	.04141	-.00011	.00393
#2	-.0034	-.00001	.00037	.00042	-.00196	.03962	.00114	.00263
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00010**	**.00733**	**.00013**	**-.00000**	**.0012**	**-.00051**	**.00008**
Stddev	.00006	.00007	.00968	.00005	.00077	.0004	.00136	.00078
%RSD	169.36	66.357	132.08	35.644	24635.	33.28	264.26	974.71
#1	.00008	.00015	.00048	.00016	.00054	.0015	-.00148	-.00047
#2	-.00001	.00005	.01418	.00010	-.00055	.0010	.00045	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 20:08:09 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01536**	**-.00038**	**-.00000**	**-.00004**	**-.00151**	**.00022**	**.00078**
Stddev	.00920	.00022	.00001	.00012	.00083	.00020	.00114
%RSD	59.899	58.120	279.45	273.03	55.263	94.023	146.41
#1	-.00885	-.00054	.00000	.00004	-.00210	.00007	-.00003
#2	-.02186	-.00023	-.00001	-.00013	-.00092	.00036	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2048.7**	**1563.4**	**60997.**	**4917.4**
Stddev	.6	1.6	23.	10.7
%RSD	.02880	.10182	.03774	.21677
#1	2048.3	1562.2	60981.	4909.9
#2	2049.2	1564.5	61013.	4925.0

Sample Name: CCVL-4209929 Acquired: 8/28/2017 20:11:48 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00601**	**.19617**	**.01505**	**.02017**	**.00214**	**.00203**	**.50539**	**.00206**
Stddev	.00023	.01818	.00254	.00052	.00001	.00003	.00349	.00026
%RSD	3.7899	9.2658	16.863	2.5772	.38452	1.5393	.68963	12.430
#1	.00617	.20902	.01325	.02054	.00214	.00201	.50293	.00225
#2	.00585	.18332	.01684	.01981	.00215	.00205	.50786	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0039**	**.00380**	**.00433**	**.01026**	**.04915**	**.50984**	**.03229**	**.20129**
Stddev	.0129	.00018	.00020	.00036	.00007	.00375	.00060	.00285
%RSD	331.1	4.6205	4.5724	3.4797	.14729	.73605	1.8604	1.4136
#1	-.0130	.00392	.00419	.01001	.04920	.50719	.03272	.20330
#2	.0052	.00368	.00447	.01051	.04910	.51250	.03187	.19927
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00308**	**.01005**	**1.0278**	**.00953**	**.01090**	**.1995**	**.01973**	**.02081**
Stddev	.00002	.00027	.0045	.00040	.00073	.0020	.00137	.00028
%RSD	.56674	2.6902	.44192	4.2310	6.6535	1.027	6.9239	1.3347
#1	.00307	.01025	1.0246	.00981	.01141	.1980	.02070	.02100
#2	.00309	.00986	1.0310	.00924	.01039	.2009	.01877	.02061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-4209929 Acquired: 8/28/2017 20:11:48 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49907	.00971	.00508	.00490	.01719	.00477	.01009
Stddev	.01757	.00098	.00005	.00015	.00176	.00001	.00017
%RSD	3.5205	10.085	.95202	3.1371	10.226	.22001	1.6855
#1	.51149	.00902	.00504	.00501	.01595	.00476	.00997
#2	.48665	.01040	.00511	.00480	.01843	.00478	.01021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2043.8	1566.1	61115.	4925.0
Stddev	5.3	3.6	205.	20.5
%RSD	.25746	.22682	.33608	.41673
#1	2040.1	1563.5	60970.	4939.5
#2	2047.5	1568.6	61260.	4910.5

Sample Name: 480-123286-A-1-A Acquired: 8/28/2017 20:15:24 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.05490**	**-.00091**	**.74068**	**.02381**
Stddev	.00005	.01001	.00241	.00155	.00012
%RSD	25.013	18.243	263.36	.20908	.48341
#1	.00024	.06198	-.00262	.74178	.02389
#2	.00017	.04782	.00079	.73959	.02373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**32.381**	**.00031**	**-.0184**	**-.00027**
Stddev	.00004	.122	.00001	.0095	.00008
%RSD	64.872	.37666	4.6706	51.62	28.283
#1	-.00003	32.467	.00030	-.0251	-.00033
#2	-.00009	32.295	.00032	-.0117	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00177**	**.75250**	**4.1843**	**.02204**
Stddev	.00040	.00051	.00529	.0100	.00056
%RSD	71.339	28.480	.70358	.23903	2.5525
#1	.00028	.00142	.75624	4.1914	.02165
#2	.00084	.00213	.74876	4.1772	.02244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123286-A-1-A Acquired: 8/28/2017 20:15:24 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.015**	**.01697**	**.00077**	**45.801**	**.00119**
Stddev	.022	.00006	.00007	.291	.00010
%RSD	.12167	.38130	8.5598	.63607	8.3718
#1	18.030	.01693	.00082	46.007	.00112
#2	17.999	.01702	.00073	45.595	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00111**	**2.989**	**-.00292**	**-.00799**	**3.6566**
Stddev	.00095	.011	.00054	.00792	.0014
%RSD	85.406	.3761	18.682	99.156	.03765
#1	-.00044	2.982	-.00330	-.00239	3.6576
#2	-.00178	2.997	-.00253	-.01359	3.6557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.52068**	**.00003**	**-.00148**	**.00003**
Stddev	.00072	.00294	.00030	.00142	.00020
%RSD	123.35	.56506	876.49	95.402	640.88
#1	-.00110	.52276	-.00018	-.00048	.00017
#2	-.00007	.51860	.00025	-.00249	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123286-A-1-A Acquired: 8/28/2017 20:15:24 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01068**
Stddev	.00197
%RSD	18.466
#1	.00929
#2	.01208
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1864.8**	**1502.2**	**58601.**	**4963.6**
Stddev	1.3	1.2	26.	27.8
%RSD	.06776	.07842	.04398	.56060
#1	1865.7	1503.1	58619.	4944.0
#2	1863.9	1501.4	58583.	4983.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.145%	96.160%	96.186%	102.55%
Range				

Sample Name: 480-123236-A-1-A Acquired: 8/28/2017 20:18:59 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**.04007**	**-.00277**	**.00997**	**.00524**
Stddev	.00001	.01031	.00347	.00095	.00000
%RSD	.72039	25.721	125.26	9.5082	.07702
#1	.00079	.04736	-.00522	.01064	.00525
#2	.00078	.03278	-.00032	.00930	.00524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**19.970**	**.00014**	**.0098**	**-.00024**
Stddev	.00002	.105	.00007	.0013	.00006
%RSD	20.272	.52820	50.032	13.13	24.775
#1	-.00010	20.045	.00009	.0089	-.00028
#2	-.00008	19.896	.00019	.0107	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**.02470**	**.01187**	**.52869**	**.00076**
Stddev	.00004	.00075	.00219	.00529	.00016
%RSD	1.9840	3.0184	18.488	1.0008	20.957
#1	.00187	.02522	.01342	.53243	.00065
#2	.00181	.02417	.01032	.52495	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123236-A-1-A Acquired: 8/28/2017 20:18:59 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8644**	**.00096**	**.00026**	**2.2342**	**-.00001**
Stddev	.0178	.00004	.00046	.0060	.00004
%RSD	.46115	4.1968	177.75	.27006	559.94
#1	3.8518	.00093	-.00007	2.2385	-.00004
#2	3.8770	.00099	.00059	2.2299	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**2.411**	**-.00213**	**-.00158**	**3.3557**
Stddev	.00061	.001	.00136	.00451	.0262
%RSD	124.82	.0589	63.763	286.21	.78031
#1	.00006	2.410	-.00309	.00162	3.3372
#2	.00092	2.412	-.00117	-.00477	3.3743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.02318**	**-.00006**	**-.00118**	**.00121**
Stddev	.00080	.00004	.00006	.00051	.00004
%RSD	122.41	.18811	87.008	43.028	3.6453
#1	-.00009	.02321	-.00010	-.00082	.00118
#2	-.00122	.02315	-.00002	-.00153	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123236-A-1-A Acquired: 8/28/2017 20:18:59 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02611
Stddev	.00069
%RSD	2.6340
#1	.02563
#2	.02660
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1974.3	1536.4	60279.	4965.1
Stddev	1.3	1.6	219.	30.3
%RSD	.06572	.10624	.36298	.61118
#1	1973.4	1535.3	60434.	4943.6
#2	1975.2	1537.6	60125.	4986.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.498%	98.349%	98.942%	102.58%
Range				

Sample Name: 480-123282-B-1-A Acquired: 8/28/2017 20:22:34 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.03286**	**-.00028**	**.00874**	**1.9316**
Stddev	.00037	.00539	.00180	.00022	.0029
%RSD	83.224	16.396	654.65	2.5073	.15072
#1	.00018	.02905	-.00155	.00889	1.9296
#2	.00070	.03667	.00100	.00858	1.9337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**7.9466**	**.00007**	**-.0108**	**-.00013**
Stddev	.00005	.0493	.00003	.0162	.00015
%RSD	116.93	.62083	41.667	150.6	113.94
#1	-.00007	7.9117	.00005	.0007	-.00024
#2	-.00001	7.9815	.00009	-.0223	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00033**	**.11648**	**.60643**	**.00162**
Stddev	.00030	.00011	.00372	.02274	.00104
%RSD	582.97	32.550	3.1948	3.7498	64.099
#1	.00027	.00025	.11911	.59035	.00089
#2	-.00016	.00040	.11385	.62251	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123282-B-1-A Acquired: 8/28/2017 20:22:34 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1288**	**.04945**	**-.00009**	**196.53**	**.00090**
Stddev	.0053	.00004	.00001	.85	.00030
%RSD	.46845	.07649	8.4578	.43439	33.009
#1	1.1325	.04943	-.00009	195.92	.00069
#2	1.1250	.04948	-.00008	197.13	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**2.119**	**.00157**	**-.01257**	**.15809**
Stddev	.00068	.016	.00180	.00135	.00711
%RSD	55.558	.7395	114.51	10.770	4.4973
#1	.00170	2.130	.00030	-.01353	.16311
#2	.00074	2.108	.00285	-.01162	.15306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**.22372**	**.00021**	**-.00252**	**-.00003**
Stddev	.00104	.00073	.00019	.00044	.00011
%RSD	121.15	.32774	90.710	17.472	382.80
#1	.00012	.22320	.00007	-.00221	-.00011
#2	.00159	.22424	.00034	-.00283	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123282-B-1-A Acquired: 8/28/2017 20:22:34 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00486
Stddev	.00143
%RSD	29.326
#1	.00587
#2	.00386
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1789.7	1483.8	57121.	4908.5
Stddev	2.6	.8	205.	25.1
%RSD	.14715	.05136	.35840	.51209
#1	1791.6	1483.3	57265.	4926.3
#2	1787.8	1484.4	56976.	4890.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.475%	94.982%	93.757%	101.41%
Range				

Sample Name: 480-123280-B-1-A Acquired: 8/28/2017 20:26:20 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.03493**	**-.00114**	**.00744**	**.01682**
Stddev	.00025	.01735	.00131	.00001	.00003
%RSD	267.76	49.674	114.76	.18906	.17884
#1	.00027	.04720	-.00207	.00743	.01684
#2	-.00008	.02266	-.00022	.00745	.01680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.07736**	**-.00007**	**-.0261**	**-.00020**
Stddev	.00001	.00202	.00009	.0067	.00023
%RSD	25.655	2.6171	120.18	25.71	113.25
#1	-.00004	.07593	-.00001	-.0308	-.00004
#2	-.00003	.07879	-.00014	-.0213	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.00145**	**.05547**	**.04856**	**.00055**
Stddev	.00065	.00008	.00395	.03297	.00017
%RSD	100.93	5.4591	7.1136	67.885	30.472
#1	-.00018	.00151	.05826	.02525	.00043
#2	-.00110	.00139	.05268	.07188	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123280-B-1-A Acquired: 8/28/2017 20:26:20 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.04210**	**.00001**	**11.563**	**.00020**
Stddev	.00086	.00023	.00018	.041	.00037
%RSD	254.40	.55036	2112.9	.35395	186.31
#1	.00095	.04226	.00013	11.534	.00046
#2	-.00027	.04194	-.00012	11.592	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00107**	**1.686**	**-.00001**	**.00265**	**.13885**
Stddev	.00055	.004	.00170	.00471	.00481
%RSD	50.789	.2345	31828.	177.91	3.4631
#1	-.00069	1.689	-.00121	-.00068	.13545
#2	-.00146	1.683	.00120	.00598	.14225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**.00042**	**-.00015**	**-.00299**	**-.00000**
Stddev	.00015	.00000	.00020	.00101	.00021
%RSD	24.571	.42901	134.77	33.859	8255.8
#1	-.00049	.00042	-.00001	-.00227	-.00015
#2	-.00070	.00042	-.00028	-.00371	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123280-B-1-A Acquired: 8/28/2017 20:26:20 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00212
Stddev	.00042
%RSD	19.737
#1	.00241
#2	.00182
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2006.3	1553.8	60672.	5008.6
Stddev	.0	.8	133.	5.2
%RSD	.00246	.05240	.21991	.10434
#1	2006.3	1553.2	60578.	5004.9
#2	2006.4	1554.3	60767.	5012.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.065%	99.458%	99.587%	103.48%
Range				

Sample Name: 480-123280-B-1-Asd@5 Acquired: 8/28/2017 20:29:55 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.00461**	**-.00084**	**.00192**	**.00339**
Stddev	.00008	.01421	.00095	.00063	.00000
%RSD	30.726	307.88	113.73	32.515	.08818
#1	.00020	-.00543	-.00016	.00148	.00339
#2	.00032	.01466	-.00151	.00237	.00338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.02020**	**.00000**	**.0032**	**-.00002**
Stddev	.00001	.00117	.00020	.0226	.00032
%RSD	7.3194	5.8149	5502.4	707.8	1370.0
#1	-.00007	.02103	-.00014	.0192	.00021
#2	-.00008	.01937	.00015	-.0128	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00052**	**.01161**	**.04627**	**.00104**
Stddev	.00008	.00003	.00114	.01748	.00054
%RSD	26.488	5.9123	9.8146	37.781	52.454
#1	.00025	.00049	.01241	.03391	.00065
#2	.00036	.00054	.01080	.05864	.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123280-B-1-Asd@5 Acquired: 8/28/2017 20:29:55 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00638**	**.00834**	**-.00025**	**2.3000**	**.00022**
Stddev	.00104	.00007	.00006	.0027	.00025
%RSD	16.248	.89370	24.684	.11579	113.38
#1	.00565	.00839	-.00029	2.2982	.00040
#2	.00711	.00829	-.00021	2.3019	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.3311**	**.00032**	**-.00226**	**.01300**
Stddev	.00120	.0008	.00068	.00176	.00045
%RSD	100.42	.2394	208.69	77.929	3.4730
#1	-.00035	.3306	-.00015	-.00351	.01268
#2	-.00205	.3317	.00080	-.00101	.01332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00017**	**-.00012**	**-.00135**	**-.00002**
Stddev	.00031	.00001	.00015	.00144	.00024
%RSD	198.66	3.6874	126.33	107.12	1022.9
#1	-.00006	.00016	-.00001	-.00237	-.00019
#2	.00037	.00017	-.00023	-.00033	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123280-B-1-Asd@5 Acquired: 8/28/2017 20:29:55 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00046
Stddev	.00060
%RSD	130.82
#1	.00003
#2	.00089
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2028.2	1558.4	60841.	4933.4
Stddev	.0	.4	326.	4.7
%RSD	.00005	.02847	.53596	.09543
#1	2028.2	1558.1	60610.	4930.1
#2	2028.2	1558.7	61071.	4936.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.134%	99.755%	99.863%	101.92%
Range				

Sample Name: 480-123280-B-1-A pds Acquired: 8/28/2017 20:33:32 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05106**	**10.008**	**.20560**	**.21234**	**.22310**
Stddev	.00023	.001	.00147	.00002	.00024
%RSD	.45498	.00724	.71632	.01087	.10706
#1	.05090	10.008	.20664	.21233	.22293
#2	.05123	10.009	.20456	.21236	.22327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20360**	**10.149**	**.20703**	**-.0127**	**.19455**
Stddev	.00052	.009	.00041	.0012	.00044
%RSD	.25529	.08527	.19812	9.106	.22842
#1	.20397	10.143	.20732	-.0135	.19486
#2	.20324	10.155	.20674	-.0119	.19423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20325**	**.20606**	**10.459**	**10.153**	**.20658**
Stddev	.00052	.00030	.008	.040	.00009
%RSD	.25760	.14726	.07198	.39766	.04178
#1	.20288	.20584	10.464	10.182	.20652
#2	.20362	.20627	10.453	10.125	.20664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123280-B-1-A pds Acquired: 8/28/2017 20:33:32 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.416**	**.25015**	**.20261**	**21.228**	**.19951**
Stddev	.067	.00094	.00025	.009	.00025
%RSD	.64509	.37506	.12208	.04375	.12709
#1	10.369	.24949	.20278	21.235	.19969
#2	10.464	.25082	.20243	21.222	.19933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20808**	**11.91**	**.20948**	**.20609**	**10.287**
Stddev	.00196	.01	.00041	.00018	.018
%RSD	.94039	.1118	.19638	.08952	.17312
#1	.20946	11.92	.20977	.20596	10.275
#2	.20670	11.90	.20919	.20623	10.300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20332**	**.20159**	**.20127**	**.20828**	**.20596**
Stddev	.00061	.00006	.00066	.00270	.00140
%RSD	.30112	.03070	.33017	1.2956	.68110
#1	.20375	.20164	.20080	.20637	.20497
#2	.20288	.20155	.20174	.21019	.20695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123280-B-1-A pds Acquired: 8/28/2017 20:33:32 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21126**
Stddev	.00205
%RSD	.97205
#1	.20981
#2	.21272
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1913.8**	**1540.3**	**59933.**	**4969.9**
Stddev	.5	.9	210.	19.1
%RSD	.02504	.05651	.34988	.38471
#1	1913.5	1539.7	60081.	4956.4
#2	1914.1	1540.9	59785.	4983.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.541%	98.596%	98.373%	102.68%
Range				

Sample Name: 480-123280-B-1-B MS Acquired: 8/28/2017 20:36:57 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04774**	**10.071**	**.20853**	**.21386**	**.22661**
Stddev	.00093	.099	.00106	.00032	.00010
%RSD	1.9409	.98619	.50736	.15045	.04232
#1	.04709	10.141	.20928	.21363	.22655
#2	.04840	10.000	.20779	.21409	.22668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20410**	**10.231**	**.20711**	**-.0188**	**.19545**
Stddev	.00028	.064	.00015	.0169	.00057
%RSD	.13954	.62837	.07138	89.84	.29137
#1	.20430	10.277	.20722	-.0069	.19504
#2	.20390	10.186	.20701	-.0308	.19585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20287**	**.20729**	**10.479**	**10.218**	**.20648**
Stddev	.00112	.00049	.017	.047	.00075
%RSD	.55160	.23413	.16454	.46405	.36115
#1	.20208	.20695	10.491	10.252	.20595
#2	.20366	.20764	10.467	10.185	.20700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123280-B-1-B MS Acquired: 8/28/2017 20:36:57 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.471**	**.25492**	**.20901**	**21.582**	**.20276**
Stddev	.012	.00047	.00025	.065	.00058
%RSD	.11587	.18422	.11998	.29923	.28423
#1	10.480	.25525	.20883	21.627	.20235
#2	10.463	.25459	.20919	21.536	.20317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20889**	**11.85**	**.20320**	**.19866**	**10.299**
Stddev	.00148	.01	.00079	.00496	.066
%RSD	.71052	.0748	.38748	2.4991	.64250
#1	.20784	11.86	.20264	.19515	10.346
#2	.20994	11.84	.20375	.20217	10.252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18561**	**.20272**	**.20250**	**.20512**	**.20786**
Stddev	.00089	.00045	.00038	.00119	.00010
%RSD	.47976	.22413	.18900	.58135	.04905
#1	.18498	.20304	.20223	.20596	.20778
#2	.18624	.20240	.20278	.20428	.20793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123280-B-1-B MS Acquired: 8/28/2017 20:36:57 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20944
Stddev	.00110
%RSD	.52460
#1	.21021
#2	.20866
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1909.0	1536.1	59423.	4957.8
Stddev	.0	2.2	67.	31.9
%RSD	.00240	.14410	.11310	.64377
#1	1909.0	1534.5	59470.	4935.2
#2	1908.9	1537.7	59375.	4980.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.306%	98.328%	97.536%	102.43%
Range				

Sample Name: 480-123280-B-1-C MSD Acquired: 8/28/2017 20:40:22 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04756**	**9.9813**	**.20602**	**.21152**	**.22324**
Stddev	.00045	.0467	.00144	.00052	.00047
%RSD	.95049	.46775	.69712	.24644	.21254
#1	.04788	9.9483	.20500	.21115	.22357
#2	.04724	10.014	.20703	.21188	.22290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20100**	**10.029**	**.20322**	**-.0157**	**.19205**
Stddev	.00005	.009	.00005	.0197	.00018
%RSD	.02288	.09127	.02518	125.0	.09455
#1	.20097	10.023	.20318	-.0018	.19192
#2	.20103	10.036	.20326	-.0296	.19218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19895**	**.20454**	**10.306**	**10.083**	**.20529**
Stddev	.00108	.00024	.030	.033	.00063
%RSD	.54098	.11503	.29287	.32353	.30603
#1	.19971	.20471	10.328	10.106	.20573
#2	.19819	.20438	10.285	10.059	.20485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123280-B-1-C MSD Acquired: 8/28/2017 20:40:22 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.267**	**.24963**	**.20481**	**21.252**	**.19900**
Stddev	.014	.00014	.00064	.037	.00006
%RSD	.13153	.05480	.31138	.17247	.02808
#1	10.257	.24953	.20526	21.278	.19896
#2	10.276	.24972	.20436	21.226	.19904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20555**	**11.79**	**.19935**	**.20002**	**10.279**
Stddev	.00056	.00	.00093	.00248	.006
%RSD	.27091	.0173	.46425	1.2386	.06021
#1	.20594	11.79	.19870	.20178	10.274
#2	.20516	11.79	.20001	.19827	10.283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18461**	**.20073**	**.19885**	**.20100**	**.20470**
Stddev	.00179	.00031	.00083	.00196	.00018
%RSD	.97166	.15485	.41766	.97619	.08556
#1	.18334	.20095	.19826	.19961	.20483
#2	.18588	.20051	.19944	.20239	.20458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123280-B-1-C MSD Acquired: 8/28/2017 20:40:22 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20749**
Stddev	.00239
%RSD	1.1528
#1	.20918
#2	.20580
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1909.4**	**1538.2**	**59595.**	**4979.2**
Stddev	.4	1.1	13.	24.6
%RSD	.02318	.07216	.02118	.49441
#1	1909.7	1537.5	59586.	4961.8
#2	1909.1	1539.0	59604.	4996.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.327%	98.465%	97.819%	102.87%
Range				

Sample Name: 480-123246-E-1-A Acquired: 8/28/2017 20:43:48 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.01683**	**.00069**	**.06347**	**.10811**
Stddev	.00014	.01946	.00432	.00047	.00023
%RSD	64.547	115.61	628.79	.74572	.21403
#1	-.00012	.03059	-.00237	.06313	.10795
#2	-.00032	.00307	.00375	.06380	.10828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**138.06**	**.00027**	**.0099**	**-.00051**
Stddev	.00004	.34	.00012	.0055	.00018
%RSD	411.82	.24502	44.611	55.40	34.998
#1	.00002	137.82	.00018	.0060	-.00063
#2	-.00004	138.30	.00035	.0137	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00052**	**.73749**	**3.0650**	**.01103**
Stddev	.00007	.00007	.00463	.0045	.00091
%RSD	65.963	13.786	.62755	.14633	8.2875
#1	-.00017	.00058	.74077	3.0681	.01168
#2	-.00006	.00047	.73422	3.0618	.01039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123246-E-1-A Acquired: 8/28/2017 20:43:48 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**59.468**	**.07521**	**.00125**	**109.64**	**.00012**
Stddev	.103	.00007	.00053	.01	.00008
%RSD	.17392	.09948	42.778	.01349	63.624
#1	59.395	.07516	.00163	109.65	.00007
#2	59.541	.07527	.00087	109.63	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00250**	**80.96**	**-.00015**	**-.01353**	**4.4244**
Stddev	.00210	.05	.00054	.00124	.0121
%RSD	83.900	.0678	363.35	9.1553	.27454
#1	.00398	80.92	-.00053	-.01265	4.4330
#2	.00102	80.99	.00023	-.01440	4.4158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.58739**	**.00013**	**.00202**	**.00030**
Stddev	.00292	.00040	.00001	.00415	.00002
%RSD	772.20	.06835	10.579	204.86	7.9080
#1	-.00169	.58767	.00014	.00495	.00032
#2	.00245	.58711	.00012	-.00091	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123246-E-1-A Acquired: 8/28/2017 20:43:48 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.16287
Stddev	.00212
%RSD	1.3014
#1	.16437
#2	.16137
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1725.6	1438.4	56205.	4863.4
Stddev	1.0	1.2	233.	5.7
%RSD	.06035	.08183	.41501	.11727
#1	1726.3	1437.5	56370.	4859.4
#2	1724.9	1439.2	56040.	4867.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.343%	92.072%	92.254%	100.48%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 20:47:22 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51106**	**24.053**	**.51135**	**.50619**	**.49770**	**.50114**	**25.097**	**.50304**
Stddev	.00017	.016	.00446	.00115	.00009	.00021	.056	.00028
%RSD	.03314	.06671	.87254	.22756	.01762	.04095	.22239	.05523
#1	.51118	24.064	.50820	.50538	.49764	.50099	25.136	.50285
#2	.51094	24.042	.51451	.50700	.49776	.50128	25.057	.50324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0173**	**.49175**	**.50546**	**.50600**	**24.398**	**25.392**	**.50139**	**25.237**
Stddev	.0083	.00030	.00108	.00127	.030	.017	.00130	.002
%RSD	47.79	.06140	.21404	.25052	.12225	.06499	.25872	.00946
#1	-.0231	.49154	.50469	.50510	24.419	25.403	.50231	25.235
#2	-.0114	.49196	.50622	.50690	24.377	25.380	.50047	25.238
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51662**	**.50557**	**25.171**	**.50319**	**.50163**	**25.43**	**.49876**	**.50486**
Stddev	.00042	.00052	.030	.00026	.00058	.01	.00202	.00487
%RSD	.08076	.10199	.11821	.05110	.11657	.0242	.40418	.96413
#1	.51691	.50520	25.192	.50337	.50204	25.43	.49733	.50831
#2	.51632	.50593	25.150	.50301	.50121	25.43	.50018	.50142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 20:47:22 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.198**	**.51657**	**.49883**	**.50104**	**.50633**	**.50301**	**.51175**
Stddev	.034	.00472	.00014	.00092	.00076	.00033	.00036
%RSD	.14171	.91305	.02901	.18291	.15027	.06537	.06990
#1	24.174	.51324	.49893	.50039	.50579	.50278	.51200
#2	24.222	.51991	.49873	.50169	.50687	.50324	.51150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1839.9**	**1515.4**	**58277.**	**4845.5**
Stddev	2.9	1.4	50.	19.1
%RSD	.15662	.09190	.08642	.39455
#1	1842.0	1516.4	58313.	4832.0
#2	1837.9	1514.4	58241.	4859.0

Sample Name: CCB-4204839 Acquired: 8/28/2017 20:50:51 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00613**	**.00073**	**.00034**	**.00001**	**-.00001**	**-.00290**	**.00006**
Stddev	.00027	.00238	.00427	.00005	.00000	.00001	.00074	.00003
%RSD	55.348	38.871	588.29	14.856	21.131	89.962	25.495	62.214
#1	.00029	.00444	-.00229	.00037	.00001	-.00000	-.00237	.00003
#2	.00067	.00781	.00374	.00030	.00001	-.00002	-.00342	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0171**	**-.00004**	**.00013**	**.00011**	**-.00230**	**.01274**	**-.00026**	**.00102**
Stddev	.0142	.00014	.00026	.00013	.00055	.00987	.00015	.00022
%RSD	82.95	369.13	196.04	118.19	23.932	77.442	56.871	21.793
#1	-.0071	-.00014	-.00005	.00002	-.00269	.01972	-.00037	.00118
#2	-.0272	.00006	.00032	.00021	-.00191	.00576	-.00016	.00087
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00023**	**.00806**	**.00024**	**-.00014**	**-.0006**	**.00108**	**-.00333**
Stddev	.00004	.00013	.00400	.00006	.00006	.0047	.00028	.00371
%RSD	139.96	55.540	49.653	24.558	43.963	738.3	25.415	111.30
#1	.00000	.00014	.01089	.00028	-.00010	.0027	.00089	-.00596
#2	.00006	.00032	.00523	.00019	-.00018	-.0039	.00128	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 20:50:51 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00984**	**-.00056**	**.00003**	**-.00012**	**-.00184**	**.00009**	**-.00005**
Stddev	.00891	.00021	.00001	.00025	.00102	.00006	.00029
%RSD	90.553	37.372	21.095	213.06	55.725	64.122	627.74
#1	-.00354	-.00041	.00002	-.00029	-.00111	.00005	.00016
#2	-.01614	-.00071	.00003	.00006	-.00256	.00013	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2052.3**	**1562.0**	**60899.**	**4896.9**
Stddev	2.7	1.5	67.	18.1
%RSD	.13317	.09836	.11039	.37002
#1	2050.4	1560.9	60946.	4909.7
#2	2054.3	1563.0	60851.	4884.1

Sample Name: CCVL-4209929 Acquired: 8/28/2017 20:54:29 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00617	.18869	.01314	.01995	.00214	.00204	.50395	.00197
Stddev	.00001	.01609	.00455	.00027	.00001	.00005	.00419	.00014
%RSD	.12344	8.5262	34.616	1.3588	.45522	2.6873	.83142	7.0582
#1	.00616	.20006	.01635	.01976	.00214	.00208	.50098	.00207
#2	.00618	.17731	.00992	.02014	.00213	.00200	.50691	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066	.00382	.00484	.01028	.05181	.54958	.02998	.20629
Stddev	.0060	.00018	.00066	.00023	.00020	.01245	.00096	.00005
%RSD	91.01	4.7044	13.686	2.2671	.39141	2.2650	3.2075	.02188
#1	.0108	.00395	.00531	.01045	.05196	.55838	.03066	.20626
#2	.0023	.00369	.00438	.01012	.05167	.54077	.02930	.20632
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00305	.01057	1.0333	.00946	.00966	.1923	.02060	.02771
Stddev	.00009	.00016	.0050	.00011	.00089	.0046	.00057	.00335
%RSD	3.0242	1.5053	.48894	1.1266	9.2468	2.406	2.7826	12.088
#1	.00312	.01068	1.0369	.00954	.00903	.1956	.02100	.03008
#2	.00299	.01045	1.0297	.00939	.01029	.1891	.02019	.02534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-4209929 Acquired: 8/28/2017 20:54:29 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49092	.00889	.00499	.00482	.01813	.00486	.01133
Stddev	.01401	.00014	.00006	.00009	.00018	.00004	.00005
%RSD	2.8538	1.5468	1.1487	1.8284	.99137	.90735	.40728
#1	.50083	.00898	.00495	.00476	.01801	.00483	.01136
#2	.48101	.00879	.00503	.00488	.01826	.00489	.01129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2036.3	1562.9	60665.	4870.8
Stddev	1.7	1.2	35.	3.9
%RSD	.08578	.07684	.05849	.07948
#1	2037.5	1562.1	60691.	4868.1
#2	2035.0	1563.8	60640.	4873.6

Sample Name: 480-123258-C-1-A Acquired: 8/28/2017 20:58:06 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.01959**	**.00172**	**.05267**	**.20003**
Stddev	.00028	.00283	.00403	.00004	.00033
%RSD	74.776	14.429	233.78	.08003	.16745
#1	.00058	.02159	-.00113	.05270	.20027
#2	.00018	.01759	.00457	.05264	.19979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**43.468**	**.00052**	**-.0062**	**.00066**
Stddev	.00000	.043	.00008	.0190	.00001
%RSD	4.0647	.09866	14.693	309.1	2.0723
#1	-.00005	43.438	.00058	-.0196	.00065
#2	-.00005	43.499	.00047	.0073	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00042**	**5.0146**	**4.4565**	**.00194**
Stddev	.00021	.00012	.0209	.0117	.00087
%RSD	667.56	28.010	.41706	.26327	44.980
#1	-.00012	.00033	5.0294	4.4482	.00256
#2	.00018	.00050	4.9998	4.4648	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123258-C-1-A Acquired: 8/28/2017 20:58:06 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3704**	**1.5228**	**.00173**	**111.70**	**.01236**
Stddev	.0101	.0008	.00010	.01	.00006
%RSD	.13722	.05337	5.8473	.00733	.50479
#1	7.3632	1.5222	.00180	111.70	.01241
#2	7.3775	1.5234	.00166	111.69	.01232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**7.158**	**-.00278**	**-.00481**	**8.4129**
Stddev	.00174	.005	.00003	.00182	.0031
%RSD	623.57	.0728	1.1018	37.771	.03648
#1	-.00095	7.155	-.00281	-.00352	8.4150
#2	.00151	7.162	-.00276	-.00609	8.4107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00172**	**.26460**	**-.00018**	**-.00140**	**.00006**
Stddev	.00089	.00047	.00021	.00014	.00003
%RSD	51.765	.17697	116.18	10.247	47.910
#1	-.00235	.26427	-.00003	-.00150	.00008
#2	-.00109	.26493	-.00032	-.00129	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123258-C-1-A Acquired: 8/28/2017 20:58:06 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.05808
Stddev	.00012
%RSD	.21389
#1	.05817
#2	.05799
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1803.3	1488.6	57430.	4867.1
Stddev	1.5	.2	80.	5.0
%RSD	.08263	.01247	.13878	.10280
#1	1804.3	1488.8	57487.	4870.7
#2	1802.2	1488.5	57374.	4863.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.140%	95.290%	94.265%	100.55%
Range				

Sample Name: 480-123258-C-2-A Acquired: 8/28/2017 21:01:38 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.03241**	**.00111**	**.02012**	**.02848**
Stddev	.00040	.00292	.00292	.00052	.00009
%RSD	2612.8	9.0194	262.82	2.5874	.32901
#1	-.00027	.03034	-.00095	.02049	.02855
#2	.00030	.03448	.00317	.01975	.02842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**8.5368**	**.00016**	**-.0001**	**-.00017**
Stddev	.00000	.0578	.00026	.0105	.00010
%RSD	8.3233	.67739	159.09	11900.	60.477
#1	-.00005	8.4959	.00034	.0073	-.00024
#2	-.00005	8.5777	-.00002	-.0075	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.00460**	**.10774**	**1.1002**	**.00187**
Stddev	.00021	.00004	.00033	.0251	.00069
%RSD	31.926	.97036	.30615	2.2775	36.682
#1	.00050	.00456	.10751	1.0825	.00138
#2	.00080	.00463	.10797	1.1180	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123258-C-2-A Acquired: 8/28/2017 21:01:38 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9069**	**.06216**	**-.00009**	**26.767**	**.03737**
Stddev	.0027	.00015	.00014	.123	.00048
%RSD	.14059	.24465	153.15	.45902	1.2801
#1	1.9088	.06206	-.00019	26.680	.03703
#2	1.9050	.06227	.00001	26.854	.03771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00235**	**2.760**	**-.00237**	**-.00086**	**2.4220**
Stddev	.00125	.014	.00039	.00530	.0013
%RSD	53.415	.5231	16.297	613.70	.05210
#1	.00146	2.770	-.00264	.00288	2.4211
#2	.00324	2.750	-.00210	-.00461	2.4229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.04207**	**.00018**	**-.00081**	**.00050**
Stddev	.00026	.00030	.00007	.00084	.00005
%RSD	35.942	.72319	40.728	103.52	11.039
#1	-.00091	.04185	.00023	-.00022	.00046
#2	-.00054	.04228	.00013	-.00141	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123258-C-2-A Acquired: 8/28/2017 21:01:38 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00389
Stddev	.00057
%RSD	14.552
#1	.00349
#2	.00429
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1947.6	1531.9	59574.	4909.4
Stddev	1.3	1.5	156.	37.6
%RSD	.06438	.09816	.26131	.76515
#1	1948.4	1530.9	59464.	4936.0
#2	1946.7	1533.0	59684.	4882.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.191%	98.061%	97.784%	101.43%
Range				

Sample Name: 480-123258-C-3-A Acquired: 8/28/2017 21:05:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.01533**	**-.00242**	**.00652**	**.00677**
Stddev	.00027	.02027	.00121	.00002	.00002
%RSD	307.55	132.28	49.901	.35711	.34577
#1	.00028	.00099	-.00327	.00654	.00679
#2	-.00010	.02966	-.00157	.00651	.00676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**3.5407**	**-.00011**	**-.0004**	**.00005**
Stddev	.00003	.0115	.00003	.0035	.00008
%RSD	96.530	.32455	30.274	916.4	167.50
#1	-.00005	3.5325	-.00013	.0021	.00011
#2	-.00001	3.5488	-.00008	-.0028	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00365**	**.03266**	**.76175**	**-.00009**
Stddev	.00019	.00032	.00022	.01710	.00015
%RSD	59.370	8.8084	.66292	2.2453	160.70
#1	-.00045	.00388	.03250	.74966	.00001
#2	-.00018	.00342	.03281	.77385	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123258-C-3-A Acquired: 8/28/2017 21:05:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1109**	**.00800**	**.00005**	**16.661**	**.00044**
Stddev	.0055	.00002	.00014	.013	.00018
%RSD	.49094	.28289	259.38	.07866	42.039
#1	1.1071	.00802	.00015	16.652	.00057
#2	1.1148	.00798	-.00004	16.670	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**1.359**	**.00020**	**-.00282**	**1.9556**
Stddev	.00168	.000	.00314	.00079	.0038
%RSD	177.23	.0115	1597.9	27.990	.19305
#1	-.00024	1.360	-.00202	-.00337	1.9583
#2	.00214	1.359	.00241	-.00226	1.9530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.01603**	**.00049**	**-.00099**	**.00037**
Stddev	.00107	.00000	.00039	.00038	.00031
%RSD	380.51	.02291	78.417	38.137	84.889
#1	-.00104	.01603	.00022	-.00072	.00059
#2	.00048	.01603	.00076	-.00126	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123258-C-3-A Acquired: 8/28/2017 21:05:12 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02591
Stddev	.00020
%RSD	.78821
#1	.02605
#2	.02576
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1977.5	1545.8	60197.	4962.0
Stddev	.1	.4	60.	11.1
%RSD	.00544	.02809	.10034	.22338
#1	1977.4	1545.5	60240.	4969.8
#2	1977.6	1546.1	60154.	4954.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.656%	98.947%	98.807%	102.51%
Range				

Sample Name: 480-123243-E-1-A Acquired: 8/28/2017 21:08:47 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.08251**	**.00659**	**1.0097**	**6.8088**
Stddev	.00026	.00737	.00492	.0022	.0202
%RSD	70.347	8.9355	74.661	.21719	.29589
#1	-.00019	.08772	.01007	1.0081	6.8230
#2	-.00055	.07730	.00311	1.0112	6.7946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**438.82**	**-.00007**	**-.0071**	**.00162**
Stddev	.00004	3.08	.00020	.0113	.00048
%RSD	232.13	.70102	298.95	158.9	29.935
#1	.00001	436.65	-.00021	-.0151	.00127
#2	-.00005	441.00	.00008	.0009	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00193**	**.90922**	**20.053**	**.16293**
Stddev	.00048	.00056	.00452	.115	.00140
%RSD	52.898	28.936	.49748	.57242	.85853
#1	.00057	.00232	.91242	20.134	.16392
#2	.00126	.00153	.90603	19.972	.16195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123243-E-1-A Acquired: 8/28/2017 21:08:47 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.871**	**.15998**	**.01046**	**395.56**	**.00702**
Stddev	.094	.00052	.00021	.80	.00084
%RSD	.23115	.32593	1.9641	.20339	11.942
#1	40.938	.16035	.01060	396.13	.00643
#2	40.805	.15961	.01031	394.99	.00761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00382**	F **181.6**	**-.00180**	**-.01418**	**4.8995**
Stddev	.00110	.0	.00307	.00045	.0118
%RSD	28.888	.0051	170.20	3.1937	.23994
#1	.00459	181.6	.00037	-.01450	4.9079
#2	.00304	181.6	-.00397	-.01386	4.8912
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.00			
Low Limit		-.2000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00139**	**3.4487**	**-.00055**	**.00112**	**-.00019**
Stddev	.00173	.0078	.00010	.00131	.00004
%RSD	124.70	.22643	17.547	117.05	22.842
#1	.00261	3.4542	-.00048	.00019	-.00016
#2	.00016	3.4432	-.00062	.00204	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123243-E-1-A Acquired: 8/28/2017 21:08:47 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02461
Stddev	.00144
%RSD	5.8604
#1	.02359
#2	.02563
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1557.4	1354.0	52641.	4709.7
Stddev	2.0	.3	7.	16.2
%RSD	.12672	.02365	.01252	.34484
#1	1558.7	1354.2	52636.	4721.1
#2	1556.0	1353.8	52646.	4698.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.119%	86.671%	86.404%	97.300%
Range				

Sample Name: 480-123266-A-1-A Acquired: 8/28/2017 21:12:43 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.03876**	**-.00459**	**.03768**	**.02580**
Stddev	.00024	.01318	.00171	.00016	.00001
%RSD	110.76	34.001	37.337	.42789	.02430
#1	.00039	.04808	-.00580	.03757	.02581
#2	.00005	.02944	-.00338	.03779	.02580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**19.370**	**.00030**	**-.0136**	**-.00017**
Stddev	.00001	.071	.00013	.0007	.00016
%RSD	45.100	.36720	42.017	5.361	92.440
#1	-.00001	19.420	.00039	-.0131	-.00029
#2	-.00002	19.319	.00021	-.0141	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**.00669**	**.38339**	**5.1562**	**.09480**
Stddev	.00036	.00042	.00135	.0450	.00005
%RSD	56.766	6.3304	.35163	.87251	.05239
#1	.00088	.00699	.38434	5.1881	.09477
#2	.00038	.00639	.38244	5.1244	.09484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123266-A-1-A Acquired: 8/28/2017 21:12:43 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8119**	**.03271**	**.01180**	**121.31**	**.00107**
Stddev	.0097	.00006	.00035	.17	.00004
%RSD	.25311	.19271	2.9719	.13666	3.6905
#1	3.8187	.03276	.01205	121.43	.00105
#2	3.8051	.03267	.01155	121.19	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**12.11**	**-.00081**	**-.00386**	**6.0955**
Stddev	.00135	.02	.00015	.00158	.0115
%RSD	125.02	.1680	18.195	40.853	.18930
#1	.00012	12.13	-.00092	-.00274	6.1037
#2	.00203	12.10	-.00071	-.00497	6.0874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.14513**	**.00035**	**-.00155**	**.00039**
Stddev	.00025	.00051	.00012	.00232	.00023
%RSD	109.01	.35084	33.622	149.80	59.521
#1	-.00041	.14549	.00043	-.00319	.00056
#2	-.00005	.14477	.00027	.00009	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123266-A-1-A Acquired: 8/28/2017 21:12:43 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.46358**
Stddev	.00059
%RSD	.12639
#1	.46400
#2	.46317
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1815.7**	**1492.1**	**57337.**	**4878.7**
Stddev	.7	1.5	299.	24.4
%RSD	.03935	.10054	.52137	.50061
#1	1815.2	1493.2	57125.	4861.5
#2	1816.2	1491.1	57548.	4896.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.748%	95.513%	94.112%	100.79%
Range				

Sample Name: 480-123268-A-2-A Acquired: 8/28/2017 21:16:16 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.02108**	**-.00179**	**.19264**	**.33688**
Stddev	.00017	.00763	.00142	.00068	.00010
%RSD	171.43	36.197	79.146	.35462	.03114
#1	-.00022	.01569	-.00079	.19216	.33681
#2	.00002	.02648	-.00280	.19312	.33696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**141.67**	**.00021**	**-.0339**	**.00041**
Stddev	.00002	.60	.00011	.0078	.00020
%RSD	66.567	.42567	50.386	22.99	49.630
#1	-.00004	142.09	.00014	-.0284	.00056
#2	-.00001	141.24	.00029	-.0394	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00658**	**.46124**	**7.4155**	**.02585**
Stddev	.00008	.00006	.00423	.0097	.00001
%RSD	60.080	.88093	.91788	.13090	.05123
#1	.00008	.00662	.46423	7.4224	.02586
#2	.00019	.00654	.45824	7.4087	.02584
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123268-A-2-A Acquired: 8/28/2017 21:16:16 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**49.842**	**3.1724**	**.00019**	**102.14**	**.00115**
Stddev	.062	.0032	.00014	.41	.00008
%RSD	.12440	.10166	70.902	.39679	7.1312
#1	49.886	3.1747	.00010	102.43	.00121
#2	49.798	3.1701	.00029	101.86	.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**21.80**	**-.00296**	**-.01161**	**6.6081**
Stddev	.00054	.01	.00320	.00770	.0634
%RSD	67.700	.0247	107.98	66.269	.95883
#1	.00042	21.79	-.00070	-.01706	6.6529
#2	.00119	21.80	-.00523	-.00617	6.5633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**1.6629**	**-.00023**	**-.00358**	**-.00021**
Stddev	.00004	.0045	.00050	.00245	.00001
%RSD	59.143	.27144	213.81	68.462	5.5560
#1	-.00004	1.6661	-.00059	-.00184	-.00022
#2	-.00010	1.6597	.00012	-.00531	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123268-A-2-A Acquired: 8/28/2017 21:16:16 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00247
Stddev	.00049
%RSD	19.763
#1	.00281
#2	.00212
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1724.0	1444.3	56067.	4803.8
Stddev	3.0	.6	9.	40.8
%RSD	.17326	.04270	.01545	.84983
#1	1726.2	1444.8	56073.	4774.9
#2	1721.9	1443.9	56060.	4832.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.267%	92.455%	92.027%	99.245%
Range				

Sample Name: 480-123268-A-2-B MS Acquired: 8/28/2017 21:19:55 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04977**	**10.300**	**.21721**	**.41122**	**.54850**
Stddev	.00040	.017	.00194	.00059	.00350
%RSD	.81209	.16487	.89322	.14261	.63881
#1	.04948	10.312	.21858	.41080	.55098
#2	.05005	10.288	.21584	.41163	.54602
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20711**	**155.18**	**.21336**	**-.0479**	**.20248**
Stddev	.00173	1.17	.00042	.0209	.00006
%RSD	.83688	.75533	.19620	43.72	.03086
#1	.20834	156.01	.21307	-.0331	.20244
#2	.20589	154.35	.21366	-.0627	.20253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20280**	**.21708**	**10.796**	**18.056**	**.23702**
Stddev	.00165	.00009	.097	.115	.00096
%RSD	.81363	.04104	.89712	.63831	.40296
#1	.20163	.21714	10.865	18.137	.23770
#2	.20396	.21701	10.728	17.974	.23634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123268-A-2-B MS Acquired: 8/28/2017 21:19:55 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**61.663**	**3.4444**	**.21127**	**115.44**	**.20971**
Stddev	.133	.0077	.00021	.93	.00023
%RSD	.21499	.22228	.10074	.80233	.11099
#1	61.569	3.4390	.21142	116.10	.20955
#2	61.757	3.4498	.21111	114.79	.20988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21744**	**33.15**	**.20812**	**.20733**	**17.150**
Stddev	.00109	.03	.00200	.00173	.222
%RSD	.50031	.0758	.95984	.83455	1.2921
#1	.21667	33.17	.20953	.20610	17.307
#2	.21821	33.13	.20671	.20855	16.994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19738**	**1.9246**	**.20544**	**.20817**	**.21032**
Stddev	.00065	.0111	.00026	.00030	.00011
%RSD	.32743	.57471	.12857	.14283	.05100
#1	.19783	1.9324	.20525	.20838	.21025
#2	.19692	1.9168	.20563	.20796	.21040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123268-A-2-B MS Acquired: 8/28/2017 21:19:55 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20980**
Stddev	.00132
%RSD	.63059
#1	.20887
#2	.21074
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1686.4**	**1446.6**	**55727.**	**4801.5**
Stddev	1.9	.9	106.	35.4
%RSD	.11413	.06531	.19107	.73637
#1	1685.0	1446.0	55652.	4776.5
#2	1687.8	1447.3	55803.	4826.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.427%	92.600%	91.470%	99.199%
Range				

Sample Name: 480-123268-A-2-C MSD Acquired: 8/28/2017 21:23:24 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04967**	**10.267**	**.22129**	**.40710**	**.54463**
Stddev	.00014	.040	.00088	.00046	.00027
%RSD	.28546	.38745	.39910	.11247	.04962
#1	.04957	10.239	.22191	.40743	.54444
#2	.04977	10.295	.22067	.40678	.54482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20609**	**153.00**	**.21260**	**-.0445**	**.20057**
Stddev	.00086	.68	.00007	.0027	.00024
%RSD	.41569	.44642	.03213	6.000	.12162
#1	.20548	152.52	.21255	-.0464	.20075
#2	.20670	153.49	.21265	-.0426	.20040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20092**	**.21564**	**10.730**	**17.859**	**.23576**
Stddev	.00106	.00095	.048	.100	.00088
%RSD	.52722	.44008	.45046	.55751	.37383
#1	.20167	.21631	10.695	17.788	.23514
#2	.20017	.21497	10.764	17.929	.23638
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123268-A-2-C MSD Acquired: 8/28/2017 21:23:24 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**60.903**	**3.3998**	**.20914**	**113.67**	**.20917**
Stddev	.055	.0001	.00065	.72	.00016
%RSD	.08949	.00214	.31022	.63033	.07856
#1	60.941	3.3998	.20960	113.16	.20928
#2	60.864	3.3999	.20868	114.17	.20905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21655**	**32.72**	**.20749**	**.20666**	**16.946**
Stddev	.00055	.04	.00242	.00268	.072
%RSD	.25227	.1343	1.1662	1.2955	.42650
#1	.21616	32.75	.20578	.20855	16.895
#2	.21694	32.69	.20921	.20477	16.997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19635**	**1.8930**	**.20383**	**.20577**	**.21029**
Stddev	.00002	.0076	.00017	.00119	.00053
%RSD	.00826	.40111	.08409	.57773	.25394
#1	.19634	1.8876	.20371	.20493	.21067
#2	.19636	1.8983	.20395	.20662	.20991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123268-A-2-C MSD Acquired: 8/28/2017 21:23:24 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20620**
Stddev	.00297
%RSD	1.4412
#1	.20831
#2	.20410
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1689.9**	**1447.2**	**55880.**	**4809.2**
Stddev	1.7	.0	12.	28.6
%RSD	.09819	.00247	.02207	.59560
#1	1691.0	1447.3	55872.	4829.5
#2	1688.7	1447.2	55889.	4788.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.597%	92.640%	91.721%	99.357%
Range				

Sample Name: 480-123219-B-1-A Acquired: 8/28/2017 21:26:53 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.16568**	**-.00133**	**.07582**	**.05021**
Stddev	.00013	.00580	.00482	.00006	.00011
%RSD	41.528	3.4988	362.29	.07685	.21478
#1	-.00021	.16978	-.00473	.07578	.05029
#2	-.00039	.16159	.00208	.07586	.05013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**55.700**	**.00010**	**-.0128**	**.00056**
Stddev	.00004	.007	.00014	.0050	.00014
%RSD	67.121	.01297	148.31	38.82	24.928
#1	-.00003	55.695	.00020	-.0164	.00066
#2	-.00010	55.705	-.00000	-.0093	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00116**	**.51192**	**3.2235**	**.00481**
Stddev	.00012	.00005	.00019	.0053	.00041
%RSD	43.393	4.0916	.03765	.16454	8.6287
#1	.00037	.00119	.51178	3.2272	.00451
#2	.00020	.00112	.51205	3.2197	.00510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123219-B-1-A Acquired: 8/28/2017 21:26:53 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.433**	**.30763**	**.00579**	**35.050**	**.00308**
Stddev	.057	.00120	.00026	.043	.00001
%RSD	.29272	.39133	4.4660	.12211	.46310
#1	19.473	.30848	.00597	35.081	.00309
#2	19.393	.30678	.00560	35.020	.00307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**37.04**	**-.00164**	**-.00584**	**3.1556**
Stddev	.00142	.06	.00251	.00053	.0013
%RSD	156.82	.1568	153.32	8.9963	.04029
#1	-.00010	37.09	-.00341	-.00621	3.1547
#2	.00191	37.00	.00014	-.00547	3.1565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.14627**	**.00381**	**-.00206**	**.00099**
Stddev	.00135	.00035	.00005	.00243	.00039
%RSD	335.52	.23828	1.2480	118.34	39.396
#1	-.00136	.14652	.00378	-.00378	.00072
#2	.00055	.14602	.00385	-.00034	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123219-B-1-A Acquired: 8/28/2017 21:26:53 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00365
Stddev	.00041
%RSD	11.165
#1	.00394
#2	.00336
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1856.2	1501.1	58642.	4950.8
Stddev	1.6	3.7	21.	3.9
%RSD	.08447	.24546	.03497	.07885
#1	1855.1	1498.5	58627.	4953.5
#2	1857.3	1503.7	58656.	4948.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.725%	96.089%	96.254%	102.28%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 21:30:28 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.50978**	**24.093**	**.50620**	**.50444**	**.49931**	**.49975**	**25.027**	**.50351**
Stddev	.00232	.062	.00192	.00060	.00019	.00344	.179	.00059
%RSD	.45578	.25627	.37979	.11885	.03885	.68743	.71485	.11666
#1	.50813	24.049	.50756	.50487	.49945	.49732	24.901	.50393
#2	.51142	24.136	.50484	.50402	.49917	.50218	25.154	.50310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0034**	**.49252**	**.50513**	**.50537**	**24.287**	**25.441**	**.50537**	**25.204**
Stddev	.0048	.00050	.00009	.00191	.157	.138	.00176	.098
%RSD	142.5	.10213	.01719	.37698	.64679	.54191	.34757	.38907
#1	-.0000	.49288	.50519	.50402	24.176	25.343	.50413	25.135
#2	.0068	.49217	.50507	.50672	24.399	25.538	.50661	25.273
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51570**	**.50535**	**25.220**	**.50366**	**.50225**	**25.37**	**.49543**	**.50733**
Stddev	.00178	.00076	.106	.00074	.00238	.04	.00055	.00820
%RSD	.34543	.15038	.41932	.14727	.47387	.1629	.11041	1.6169
#1	.51444	.50588	25.145	.50418	.50393	25.40	.49581	.50152
#2	.51696	.50481	25.295	.50313	.50056	25.34	.49504	.51313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 21:30:28 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.183**	**.51838**	**.49902**	**.50075**	**.50965**	**.50211**	**.51030**
Stddev	.240	.00193	.00267	.00244	.00127	.00094	.00363
%RSD	.99223	.37291	.53602	.48734	.24842	.18662	.71105
#1	24.013	.51975	.49713	.49902	.51054	.50145	.50773
#2	24.353	.51701	.50091	.50247	.50875	.50277	.51286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1839.0**	**1516.1**	**58262.**	**4826.9**
Stddev	3.0	.4	75.	17.8
%RSD	.16140	.02768	.12820	.36942
#1	1841.1	1516.4	58314.	4839.5
#2	1836.9	1515.8	58209.	4814.3

Sample Name: CCB-4204839 Acquired: 8/28/2017 21:33:56 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00423**	**-.00632**	**.00003**	**-.00000**	**-.00006**	**-.00216**	**.00012**
Stddev	.00045	.00191	.00102	.00016	.00001	.00008	.00213	.00024
%RSD	5554.5	45.101	16.135	559.89	334.03	128.42	98.399	203.96
#1	-.00032	-.00288	-.00704	-.00009	-.00001	-.00012	-.00366	.00029
#2	.00031	-.00558	-.00560	.00015	.00000	-.00001	-.00066	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0053**	**-.00013**	**.00035**	**-.00034**	**-.00061**	**.02565**	**.00073**	**-.00013**
Stddev	.0093	.00005	.00001	.00005	.00235	.01687	.00080	.00308
%RSD	175.0	38.816	2.4984	14.887	382.28	65.778	108.84	2359.4
#1	.0013	-.00017	.00036	-.00037	-.00227	.03758	.00130	.00205
#2	-.0118	-.00010	.00034	-.00030	.00105	.01372	.00017	-.00231
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00010**	**.02037**	**-.00013**	**-.00034**	**.0023**	**-.00098**	**.00111**
Stddev	.00005	.00001	.00343	.00006	.00049	.0007	.00134	.00078
%RSD	124.95	5.3345	16.848	49.524	143.42	28.53	137.05	69.783
#1	.00007	.00010	.02280	-.00018	-.00069	.0028	-.00003	.00166
#2	.00000	.00009	.01794	-.00008	.00000	.0018	-.00193	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 21:33:56 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00280**	**-.00004**	**.00008**	**.00001**	**-.00182**	**-.00001**	**.00062**
Stddev	.00332	.00011	.00004	.00034	.00019	.00010	.00152
%RSD	118.67	272.95	57.132	3049.4	10.168	1054.1	242.97
#1	-.00514	-.00012	.00011	.00025	-.00195	-.00008	-.00045
#2	-.00045	.00004	.00005	-.00023	-.00169	.00006	.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2056.6**	**1561.5**	**60815.**	**4889.5**
Stddev	.2	1.3	124.	21.6
%RSD	.00876	.08566	.20465	.44109
#1	2056.7	1562.4	60727.	4904.7
#2	2056.5	1560.5	60903.	4874.2

Sample Name: CCVL-4209929 Acquired: 8/28/2017 21:37:33 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00622	.18837	.01226	.01949	.00215	.00204	.50532	.00214
Stddev	.00019	.00276	.00391	.00037	.00001	.00004	.00021	.00016
%RSD	3.0571	1.4663	31.885	1.9118	.29326	1.9720	.04241	7.6330
#1	.00609	.19033	.00949	.01975	.00214	.00202	.50517	.00226
#2	.00636	.18642	.01502	.01923	.00215	.00207	.50547	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0289	.00396	.00448	.01020	.04748	.53379	.03098	.20255
Stddev	.0149	.00004	.00010	.00002	.00016	.00053	.00165	.00067
%RSD	51.59	1.0684	2.1560	.22101	.34084	.09907	5.3163	.32862
#1	.0395	.00399	.00442	.01018	.04737	.53342	.02982	.20208
#2	.0184	.00393	.00455	.01022	.04759	.53417	.03215	.20302
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00307	.01024	1.0293	.00941	.00990	.2010	.01910	.02477
Stddev	.00008	.00014	.0014	.00010	.00150	.0005	.00010	.00217
%RSD	2.4604	1.3528	.13251	1.0290	15.195	.2266	.50642	8.7730
#1	.00312	.01014	1.0284	.00934	.01096	.2007	.01903	.02630
#2	.00302	.01033	1.0303	.00948	.00884	.2013	.01916	.02323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-4209929 Acquired: 8/28/2017 21:37:33 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48441	.00945	.00511	.00484	.01866	.00489	.00989
Stddev	.00778	.00035	.00004	.00025	.00036	.00003	.00051
%RSD	1.6057	3.6898	.69885	5.1598	1.9282	.56013	5.1901
#1	.47891	.00970	.00509	.00467	.01841	.00487	.01025
#2	.48991	.00921	.00514	.00502	.01891	.00491	.00952
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2028.0	1560.2	60664.	4895.2
Stddev	2.3	4.2	129.	24.2
%RSD	.11541	.27161	.21323	.49414
#1	2026.3	1557.2	60572.	4912.3
#2	2029.7	1563.2	60755.	4878.1

Sample Name: 480-123219-B-2-A Acquired: 8/28/2017 21:41:10 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.88185**	**.00215**	**.07206**	**.04422**
Stddev	.00004	.00651	.00291	.00051	.00003
%RSD	7.6699	.73776	134.89	.70537	.06435
#1	.00045	.87725	.00010	.07241	.04420
#2	.00051	.88645	.00421	.07170	.04424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**50.293**	**-.00010**	**-.0232**	**.00075**
Stddev	.00001	.226	.00005	.0073	.00023
%RSD	3844.0	.44869	49.126	31.29	30.566
#1	.00001	50.453	-.00013	-.0284	.00091
#2	-.00001	50.134	-.00006	-.0181	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**.00205**	**2.1776**	**3.0797**	**.00586**
Stddev	.00069	.00007	.0168	.0204	.00094
%RSD	50.222	3.6599	.77061	.66177	16.025
#1	.00187	.00199	2.1895	3.0941	.00652
#2	.00089	.00210	2.1657	3.0652	.00519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123219-B-2-A Acquired: 8/28/2017 21:41:10 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.908**	**.34436**	**.00421**	**19.803**	**.00445**
Stddev	.019	.00015	.00006	.116	.00015
%RSD	.11380	.04434	1.5054	.58570	3.4693
#1	16.895	.34425	.00416	19.885	.00456
#2	16.922	.34447	.00425	19.721	.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**26.68**	**-.00270**	**-.00413**	**3.8578**
Stddev	.00020	.02	.00176	.00162	.0146
%RSD	22.851	.0791	65.204	39.231	.37900
#1	.00103	26.69	-.00145	-.00527	3.8475
#2	.00074	26.66	-.00394	-.00298	3.8682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.10948**	**.01786**	**-.00083**	**.00255**
Stddev	.00050	.00039	.00148	.00002	.00026
%RSD	119.06	.35211	8.3122	2.0647	10.227
#1	.00007	.10976	.01681	-.00084	.00236
#2	.00078	.10921	.01891	-.00082	.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123219-B-2-A Acquired: 8/28/2017 21:41:10 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00856
Stddev	.00087
%RSD	10.186
#1	.00917
#2	.00794
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1879.5	1505.3	58905.	4894.3
Stddev	2.6	3.4	77.	36.9
%RSD	.13732	.22594	.13066	.75456
#1	1877.7	1502.9	58960.	4868.2
#2	1881.4	1507.7	58851.	4920.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.867%	96.358%	96.686%	101.12%
Range				

Sample Name: 480-123241-E-2-A Acquired: 8/28/2017 21:44:43 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.64099**	**.00372**	**.15762**	**.07607**
Stddev	.00033	.00270	.00621	.00010	.00008
%RSD	47.793	.42189	166.86	.06035	.10069
#1	.00045	.64290	.00811	.15768	.07601
#2	.00092	.63908	-.00067	.15755	.07612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**68.847**	**.00053**	**.0048**	**.00025**
Stddev	.00002	.273	.00012	.0087	.00003
%RSD	46.677	.39613	22.166	180.9	13.737
#1	-.00002	69.040	.00045	.0110	.00022
#2	-.00004	68.654	.00062	-.0013	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00270**	**.10241**	**1.7854**	**10.189**	**.01154**
Stddev	.00029	.00051	.0187	.035	.00040
%RSD	10.871	.49432	1.0470	.34078	3.4291
#1	.00250	.10205	1.7986	10.213	.01182
#2	.00291	.10276	1.7722	10.164	.01127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123241-E-2-A Acquired: 8/28/2017 21:44:43 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.243**	**.13624**	**.00205**	**104.04**	**.00267**
Stddev	.046	.00012	.00048	.76	.00029
%RSD	.32499	.09006	23.640	.73454	11.023
#1	14.275	.13633	.00239	104.58	.00288
#2	14.210	.13615	.00171	103.50	.00246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00648**	**18.35**	**-.00064**	**-.00631**	**3.4304**
Stddev	.00077	.03	.00180	.00211	.0088
%RSD	11.863	.1830	280.97	33.413	.25745
#1	.00593	18.38	-.00192	-.00780	3.4241
#2	.00702	18.33	.00063	-.00482	3.4366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00344**	**.30904**	**.01416**	**-.00339**	**.00099**
Stddev	.00045	.00064	.00016	.00190	.00029
%RSD	12.989	.20743	1.1002	56.062	29.304
#1	.00312	.30949	.01405	-.00205	.00120
#2	.00375	.30858	.01427	-.00473	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123241-E-2-A Acquired: 8/28/2017 21:44:43 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.13274**
Stddev	.00535
%RSD	4.0299
#1	.13652
#2	.12896
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1781.9**	**1471.1**	**57104.**	**4894.1**
Stddev	2.8	3.7	7.	34.2
%RSD	.15679	.24869	.01281	.69969
#1	1780.0	1468.5	57099.	4869.9
#2	1783.9	1473.7	57109.	4918.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.097%	94.167%	93.730%	101.11%
Range				

Sample Name: 480-123241-E-1-A Acquired: 8/28/2017 21:48:16 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.16612**	**-.00409**	**.13841**	**.04195**
Stddev	.00037	.01340	.00329	.00059	.00016
%RSD	87.616	8.0652	80.592	.42644	.37310
#1	.00016	.15664	-.00642	.13883	.04206
#2	.00068	.17559	-.00176	.13799	.04184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**60.550**	**.00050**	**-.0187**	**-.00002**
Stddev	.00001	.334	.00025	.0016	.00016
%RSD	15.865	.55102	50.801	8.794	723.37
#1	-.00006	60.786	.00068	-.0199	.00009
#2	-.00005	60.314	.00032	-.0175	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.03556**	**.64213**	**7.7661**	**.00831**
Stddev	.00023	.00032	.00087	.1036	.00001
%RSD	23.631	.89385	.13473	1.3345	.08335
#1	.00080	.03578	.64274	7.8394	.00831
#2	.00113	.03533	.64151	7.6929	.00832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123241-E-1-A Acquired: 8/28/2017 21:48:16 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.195**	**.10357**	**.00142**	**99.552**	**.00114**
Stddev	.009	.00012	.00003	.405	.00000
%RSD	.07215	.11748	2.4098	.40720	.27895
#1	12.201	.10365	.00145	99.838	.00114
#2	12.189	.10348	.00140	99.265	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**15.86**	**.00050**	**-.01062**	**3.1277**
Stddev	.00069	.02	.00178	.00267	.0265
%RSD	51.380	.1501	356.58	25.173	.84854
#1	.00086	15.87	.00175	-.01251	3.1465
#2	.00184	15.84	-.00076	-.00873	3.1089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**.26509**	**.00554**	**-.00218**	**.00040**
Stddev	.00052	.00072	.00085	.00186	.00003
%RSD	60.978	.26993	15.367	85.477	6.3110
#1	.00049	.26560	.00494	-.00086	.00042
#2	.00123	.26458	.00614	-.00349	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123241-E-1-A Acquired: 8/28/2017 21:48:16 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03945
Stddev	.00051
%RSD	1.3004
#1	.03909
#2	.03982
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1794.4	1479.8	57532.	4905.9
Stddev	1.1	1.7	3.	26.9
%RSD	.05895	.11517	.00560	.54920
#1	1795.2	1481.0	57534.	4886.9
#2	1793.7	1478.5	57529.	4925.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.707%	94.721%	94.431%	101.36%
Range				

Sample Name: blank Acquired: 8/28/2017 21:51:49 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.01026**	**-.00268**	**-.00031**	**-.00001**
Stddev	.00001	.02400	.00346	.00022	.00000
%RSD	105.49	233.90	129.07	72.654	27.198
#1	-.00000	.00671	-.00023	-.00015	-.00001
#2	-.00001	-.02724	-.00512	-.00047	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00114**	**-.00001**	**-.0111**	**-.00020**
Stddev	.00000	.00138	.00005	.0134	.00004
%RSD	3.5918	121.22	636.65	120.1	20.835
#1	-.00002	-.00016	.00003	-.0206	-.00022
#2	-.00003	-.00211	-.00005	-.0017	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00004**	**.00001**	**.03956**	**.00080**
Stddev	.00007	.00004	.00152	.00349	.00036
%RSD	354.30	122.92	29355.	8.8150	45.541
#1	.00007	.00007	.00108	.04203	.00106
#2	-.00003	.00000	-.00107	.03710	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 21:51:49 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00162**	**.00001**	**-.00010**	**.02355**	**-.00006**
Stddev	.00654	.00002	.00004	.00175	.00011
%RSD	403.84	346.32	40.951	7.4114	181.64
#1	.00301	.00002	-.00013	.02478	.00002
#2	-.00625	-.00001	-.00007	.02231	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.0009**	**.00056**	**-.00008**	**-.00540**
Stddev	.00030	.0104	.00155	.00312	.01848
%RSD	59.879	1173.	276.15	3972.2	342.48
#1	-.00071	.0082	-.00054	-.00229	-.01847
#2	-.00029	-.0065	.00166	.00213	.00767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00010**	**.00015**	**-.00244**	**-.00021**
Stddev	.00118	.00005	.00000	.00037	.00074
%RSD	313.91	47.487	.75778	15.379	345.89
#1	-.00046	.00013	.00015	-.00217	.00031
#2	.00121	.00007	.00015	-.00270	-.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 21:51:49 Type: Unk
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00454**
Stddev	.00168
%RSD	37.056
#1	.00335
#2	.00573
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2048.4**	**1563.1**	**60510.**	**4878.1**
Stddev	.6	.3	27.	28.1
%RSD	.02792	.02153	.04522	.57692
#1	2048.0	1563.4	60529.	4858.2
#2	2048.8	1562.9	60491.	4898.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.12%	100.06%	99.320%	100.78%
Range				

Sample Name: CCVL-4209929 Acquired: 8/28/2017 21:55:27 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00657	.20689	.01506	.01931	.00215	.00207	.50475	.00209
Stddev	.00033	.01621	.00224	.00037	.00001	.00001	.00021	.00020
%RSD	5.0355	7.8342	14.876	1.9081	.24218	.40112	.04063	9.7487
#1	.00681	.21835	.01348	.01905	.00215	.00208	.50490	.00195
#2	.00634	.19543	.01665	.01957	.00214	.00206	.50461	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030	.00375	.00487	.00983	.05125	.53300	.03084	.20700
Stddev	.0142	.00021	.00005	.00045	.00279	.00269	.00063	.00664
%RSD	474.3	5.6991	.95095	4.6237	5.4486	.50428	2.0317	3.2101
#1	.0130	.00360	.00484	.00951	.04927	.53490	.03039	.20230
#2	-.0070	.00391	.00491	.01015	.05322	.53110	.03128	.21170
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00316	.01028	1.0370	.00996	.01133	.1995	.01889	.02327
Stddev	.00002	.00026	.0020	.00052	.00086	.0019	.00186	.00398
%RSD	.65965	2.5390	.19609	5.2590	7.6171	.9631	9.8482	17.116
#1	.00314	.01046	1.0385	.01034	.01072	.1982	.01758	.02608
#2	.00317	.01009	1.0356	.00959	.01194	.2009	.02021	.02045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-4209929 Acquired: 8/28/2017 21:55:27 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49588	.00987	.00503	.00492	.01833	.00531	.00959
Stddev	.01149	.00025	.00005	.00016	.00173	.00036	.00084
%RSD	2.3161	2.4958	1.0626	3.1741	9.4432	6.8727	8.7634
#1	.48776	.01004	.00500	.00503	.01956	.00505	.00900
#2	.50400	.00969	.00507	.00481	.01711	.00557	.01018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2028.8	1560.4	60665.	4862.9
Stddev	2.3	2.0	81.	13.5
%RSD	.11197	.12866	.13418	.27676
#1	2027.2	1561.8	60723.	4853.3
#2	2030.4	1559.0	60607.	4872.4

Sample Name: CCV-4198708 Acquired: 8/28/2017 21:59:05 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51309**	**24.127**	**.51073**	**.50522**	**.50088**	**.49892**	**25.077**	**.50323**
Stddev	.00064	.023	.00942	.00010	.00297	.00059	.051	.00032
%RSD	.12559	.09425	1.8445	.02038	.59387	.11878	.20382	.06367
#1	.51355	24.143	.50407	.50514	.50298	.49934	25.113	.50301
#2	.51264	24.111	.51739	.50529	.49877	.49850	25.040	.50346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0090**	**.49434**	**.50693**	**.50607**	**24.243**	**25.395**	**.50387**	**25.281**
Stddev	.0005	.00015	.00076	.00172	.008	.057	.00035	.009
%RSD	5.165	.03048	.15075	.33996	.03495	.22494	.06969	.03637
#1	-.0093	.49445	.50747	.50728	24.237	25.435	.50362	25.287
#2	-.0086	.49424	.50639	.50485	24.249	25.354	.50412	25.274
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.51747**	**.50623**	**25.248**	**.50585**	**.50235**	**25.42**	**.49606**	**.50442**
Stddev	.00069	.00068	.026	.00036	.00044	.01	.00241	.00686
%RSD	.13258	.13501	.10201	.07156	.08787	.0244	.48550	1.3606
#1	.51796	.50672	25.267	.50611	.50203	25.43	.49777	.50928
#2	.51699	.50575	25.230	.50559	.50266	25.42	.49436	.49957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-4198708 Acquired: 8/28/2017 21:59:05 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.158**	**.51958**	**.49810**	**.50139**	**.51091**	**.50426**	**.51232**
Stddev	.027	.00450	.00072	.00113	.00228	.00127	.00289
%RSD	.11240	.86641	.14473	.22610	.44653	.25282	.56453
#1	24.139	.52277	.49861	.50219	.51252	.50516	.51437
#2	24.177	.51640	.49759	.50059	.50930	.50336	.51028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1835.7**	**1517.8**	**58145.**	**4829.0**
Stddev	.6	2.1	107.	1.6
%RSD	.03080	.13775	.18391	.03388
#1	1836.1	1519.3	58070.	4827.8
#2	1835.3	1516.3	58221.	4830.2

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:02:34 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00466**	**-.00192**	**-.00050**	**.00001**	**-.00008**	**-.00353**	**-.00000**
Stddev	.00034	.00422	.00043	.00026	.00001	.00005	.00218	.00006
%RSD	249.58	90.629	22.441	51.694	90.830	61.783	61.692	1606.3
#1	-.00038	-.00167	-.00161	-.00069	.00002	-.00004	-.00199	-.00005
#2	.00010	-.00764	-.00222	-.00032	.00000	-.00011	-.00507	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0126**	**-.00003**	**.00037**	**.00000**	**-.00001**	**.02868**	**.00047**	**-.00312**
Stddev	.0028	.00017	.00003	.00030	.00086	.00684	.00026	.00497
%RSD	22.00	542.54	7.7560	541410.	12893.	23.862	55.242	159.27
#1	.0106	-.00015	.00035	.00021	-.00061	.02384	.00029	.00039
#2	.0145	.00009	.00039	-.00021	.00060	.03352	.00065	-.00663
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00017**	**.00890**	**-.00019**	**.00061**	**-.0028**	**.00173**	**.00191**
Stddev	.00003	.00015	.00128	.00005	.00152	.0093	.00300	.00062
%RSD	95.167	90.640	14.348	25.351	250.12	337.0	173.81	32.450
#1	.00005	.00006	.00800	-.00023	.00168	.0038	-.00040	.00147
#2	.00001	.00027	.00980	-.00016	-.00047	-.0094	.00385	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:02:34 Type: QC
Method: ICAP1- 1st Qrt 2017(v304) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2881	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00836**	**-.00094**	**.00004**	**-.00011**	**-.00250**	**-.00017**	**-.00004**
Stddev	.00587	.00215	.00001	.00014	.00207	.00012	.00112
%RSD	70.216	227.69	23.040	133.64	83.065	73.982	2743.0
#1	-.00421	-.00246	.00004	-.00021	-.00396	-.00008	-.00084
#2	-.01250	.00058	.00005	-.00001	-.00103	-.00026	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2046.8**	**1559.6**	**60931.**	**4896.9**
Stddev	2.0	.4	220.	24.6
%RSD	.09663	.02730	.36091	.50214
#1	2048.2	1559.9	61086.	4914.3
#2	2045.4	1559.3	60775.	4879.6

Run File: i2082817a

Instrument: ICAP2

Analyst: jrk JR 8/29/17

Data Review: 8/29/17

Spikes Ids: 4027863(W1), 3903387(W2), 4076679(Sn), 4076667(Ag), 3900427(Si), 3885452(TCLP)

Pipette IDs: 06/16/17-(1-9, 11)
Internal Standard: 4172819

Seq#	Run File ID	Sample ID	Date / Time	Type
1	i2082817a	ICIS-4204839	08/28/17 11:02 AM	Standard
2	i2082817a	IC-4195955	08/28/17 11:05 AM	Standard
3	i2082817a	IC-4207542	08/28/17 11:09 AM	Standard
4	i2082817a	IC-4207541	08/28/17 11:13 AM	Standard
5	i2082817a	ICV-4204840	08/28/17 11:16 AM	QC
6	i2082817a	ICB-4204839	08/28/17 11:19 AM	QC
7	i2082817a	ICVL-4195955	08/28/17 11:23 AM	QC
8	i2082817a	ICSA-4090634	08/28/17 11:27 AM	QC
9	i2082817a	ICSAB-4167458	08/28/17 11:30 AM	QC
10	i2082817a	ICEX1	08/28/17 11:34 AM	Unknown
11	i2082817a	ICEX2	08/28/17 11:38 AM	Unknown
12	i2082817a	ICEX3	08/28/17 11:41 AM	Unknown
13	i2082817a	ICEX4	08/28/17 11:49 AM	Unknown
14	i2082817a	ICEX5	08/28/17 11:52 AM	Unknown
15	i2082817a	CCV-4198708	08/28/17 11:56 AM	QC
16	i2082817a	CCB-4204839	08/28/17 11:59 AM	QC
17	i2082817a	CCVL-4195955	08/28/17 12:03 PM	QC
18	i2082817a	MB 480-373710/1-A	08/28/17 12:07 PM	Unknown
19	i2082817a	123104-A-1-A@5	08/28/17 12:10 PM	Unknown
20	i2082817a	123104-A-1-Asd@25	08/28/17 12:14 PM	Unknown
21	i2082817a	123104-A-1-Apds@5	08/28/17 12:17 PM	Unknown
22	i2082817a	123104-A-1-B MS@5	08/28/17 12:21 PM	Unknown
23	i2082817a	123104-A-1-C MSD@5	08/28/17 12:25 PM	Unknown
24	i2082817a	480-123126-A-1-A@10	08/28/17 12:28 PM	Unknown
25	i2082817a	480-123126-A-2-A@10	08/28/17 12:32 PM	Unknown
26	i2082817a	480-123118-A-1-A@50	08/28/17 12:35 PM	Unknown
27	i2082817a	CCV-4198708	08/28/17 12:39 PM	QC
28	i2082817a	CCB-4204839	08/28/17 12:42 PM	QC
29	i2082817a	CCVL-4195955	08/28/17 12:46 PM	QC
30	i2082817a	LB2 480-373744/1-B	08/28/17 12:49 PM	Unknown
31	i2082817a	MB 480-373906/2-A	08/28/17 12:53 PM	Unknown
32	i2082817a	LCS 480-373906/3-A	08/28/17 12:57 PM	Unknown
33	i2082817a	480-123063-C-1-D	08/28/17 01:00 PM	Unknown
34	i2082817a	480-123063-C-1-Dsd@5	08/28/17 01:04 PM	Unknown
35	i2082817a	480-123063-C-1-D pds	08/28/17 01:08 PM	Unknown
36	i2082817a	480-123063-C-1-E MS	08/28/17 01:11 PM	Unknown
37	i2082817a	480-123063-C-1-F MSD	08/28/17 01:15 PM	Unknown
38	i2082817a	blank	08/28/17 01:18 PM	Unknown
39	i2082817a	CCV-4198708	08/28/17 01:22 PM	QC
40	i2082817a	CCB-4204839	08/28/17 01:26 PM	QC
41	i2082817a	CCVL-4195955	08/28/17 01:29 PM	QC
42	i2082817a	LB 480-373730/1-B	08/28/17 01:33 PM	Unknown

43	i2082817a	MB 480-373905/2-A	08/28/17 01:37 PM Unknown
44	i2082817a	LCS 480-373905/3-A	08/28/17 01:40 PM Unknown
45	i2082817a	480-123063-F-2-C	08/28/17 01:44 PM Unknown
46	i2082817a	480-123063-F-2-Csd@5	08/28/17 01:48 PM Unknown
47	i2082817a	480-123063-F-2-C pds	08/28/17 01:51 PM Unknown
48	i2082817a	480-123063-F-2-D MS	08/28/17 01:55 PM Unknown
49	i2082817a	480-123063-F-2-E MSD	08/28/17 01:59 PM Unknown
50	i2082817a	480-123063-G-3-C	08/28/17 02:02 PM Unknown
51	i2082817a	CCV-4198708	08/28/17 02:06 PM QC
52	i2082817a	CCB-4204839	08/28/17 02:10 PM QC
53	i2082817a	CCVL-4195955	08/28/17 02:13 PM QC
54	i2082817a	480-123128-A-1-C	08/28/17 02:17 PM Unknown
55	i2082817a	480-122829-2 tot	08/28/17 02:21 PM Unknown
56	i2082817a	480-123104-A-1-ASD@5	08/28/17 02:25 PM Unknown
57	i2082817a	Filter blank 373301	08/28/17 02:29 PM Unknown
58	i2082817a	480-123023-F-2-A	08/28/17 02:32 PM Unknown
59	i2082817a	BLANK	08/28/17 02:36 PM Unknown
60	i2082817a	MB 480-374152/1-A	08/28/17 02:39 PM Unknown
61	i2082817a	LCS 480-374152/2-A	08/28/17 02:43 PM Unknown
62	i2082817a	LCSD 480-374152/3-A	08/28/17 02:46 PM Unknown
63	i2082817a	CCV-4198708	08/28/17 02:50 PM QC
64	i2082817a	CCB-4204839	08/28/17 02:53 PM QC
65	i2082817a	CCVL-4195955	08/28/17 02:57 PM QC
66	i2082817a	480-122778-E-19-D	08/28/17 03:01 PM Unknown
67	i2082817a	480-122778-E-18-D	08/28/17 03:04 PM Unknown
68	i2082817a	480-122703-D-2-B	08/28/17 03:08 PM Unknown
69	i2082817a	480-122703-D-6-B	08/28/17 03:11 PM Unknown
70	i2082817a	480-122527-B-5-C	08/28/17 03:15 PM Unknown
71	i2082817a	480-123261-C-1-A	08/28/17 03:19 PM Unknown
72	i2082817a	480-123261-C-2-A	08/28/17 03:22 PM Unknown
73	i2082817a	480-123261-C-2-ASD@5	08/28/17 03:26 PM Unknown
74	i2082817a	480-123261-C-2-APDS	08/28/17 03:30 PM Unknown
75	i2082817a	CCV-4198708	08/28/17 03:33 PM QC
76	i2082817a	CCB-4204839	08/28/17 03:37 PM QC
77	i2082817a	CCVL-4195955	08/28/17 03:40 PM QC
78	i2082817a	480-123261-C-2-B MS	08/28/17 03:44 PM Unknown
79	i2082817a	480-123261-C-2-C MSD	08/28/17 03:47 PM Unknown
80	i2082817a	480-123261-B-3-A	08/28/17 03:51 PM Unknown
81	i2082817a	480-123261-B-4-A	08/28/17 03:55 PM Unknown
82	i2082817a	480-123256-G-4-A	08/28/17 03:58 PM Unknown
83	i2082817a	480-123260-A-6-A	08/28/17 04:02 PM Unknown
84	i2082817a	480-123224-C-1-A	08/28/17 04:05 PM Unknown
85	i2082817a	480-123224-C-2-A	08/28/17 04:09 PM Unknown
86	i2082817a	480-123274-B-1-A	08/28/17 04:13 PM Unknown
87	i2082817a	CCV-4198708	08/28/17 04:16 PM QC
88	i2082817a	CCB-4204839	08/28/17 04:20 PM QC
89	i2082817a	CCVL-4195955	08/28/17 04:23 PM QC
90	i2082817a	480-123274-B-2-A	08/28/17 04:27 PM Unknown
91	i2082817a	480-123274-B-3-A	08/28/17 04:31 PM Unknown
92	i2082817a	480-123274-B-4-A	08/28/17 04:34 PM Unknown
93	i2082817a	480-123285-D-1-A	08/28/17 04:38 PM Unknown
94	i2082817a	480-123285-D-2-A	08/28/17 04:41 PM Unknown

95	i2082817a	480-123285-D-3-A	08/28/17 04:45 PM Unknown
96	i2082817a	BLANK	08/28/17 04:49 PM Unknown
97	i2082817a	MB 480-373973/1-B	08/28/17 04:52 PM Unknown
98	i2082817a	LCS 480-373973/2-B	08/28/17 04:56 PM Unknown
99	i2082817a	CCV-4198708	08/28/17 04:59 PM QC
100	i2082817a	CCB-4204839	08/28/17 05:03 PM QC
101	i2082817a	CCVL-4195955	08/28/17 05:07 PM QC
102	i2082817a	480-123149-A-9-B	08/28/17 05:10 PM Unknown
103	i2082817a	480-123149-A-9-BSD@5	08/28/17 05:14 PM Unknown
104	i2082817a	480-123149-A-9-BPDS	08/28/17 05:17 PM Unknown
105	i2082817a	480-123149-A-9-C MS	08/28/17 05:21 PM Unknown
106	i2082817a	480-123149-A-9-D MSD	08/28/17 05:24 PM Unknown
107	i2082817a	480-123209-A-3-B	08/28/17 05:28 PM Unknown
108	i2082817a	480-123215-L-1-B	08/28/17 05:31 PM Unknown
109	i2082817a	480-123215-K-2-B	08/28/17 05:35 PM Unknown
110	i2082817a	480-123215-L-3-B	08/28/17 05:38 PM Unknown
111	i2082817a	CCV-4198708	08/28/17 05:42 PM QC
112	i2082817a	CCB-4204839	08/28/17 05:46 PM QC
113	i2082817a	CCVL-4195955	08/28/17 05:49 PM QC
114	i2082817a	480-123168-D-1-B	08/28/17 05:53 PM Unknown
115	i2082817a	480-123168-D-2-B	08/28/17 05:56 PM Unknown
116	i2082817a	480-123168-D-3-B	08/28/17 06:00 PM Unknown
117	i2082817a	BLANK	08/28/17 06:04 PM Unknown
118	i2082817a	MB 480-373973/1-C	08/28/17 06:07 PM Unknown
119	i2082817a	LCS 480-373973/2-C	08/28/17 06:11 PM Unknown
120	i2082817a	480-123220-D-1-B	08/28/17 06:15 PM Unknown
121	i2082817a	480-123220-D-1-BSD@5	08/28/17 06:18 PM Unknown
122	i2082817a	480-123220-D-1-BPDS	08/28/17 06:22 PM Unknown
123	i2082817a	CCV-4198708	08/28/17 06:25 PM QC
124	i2082817a	CCB-4204839	08/28/17 06:29 PM QC
125	i2082817a	CCVL-4195955	08/28/17 06:32 PM QC
126	i2082817a	480-123220-D-1-C MS	08/28/17 06:36 PM Unknown
127	i2082817a	480-123220-D-1-D MSD	08/28/17 06:39 PM Unknown
128	i2082817a	BLANK	08/28/17 06:43 PM Unknown
129	i2082817a	MB 480-374149/1-A	08/28/17 06:46 PM Unknown
130	i2082817a	LCS 480-374149/2-A	08/28/17 06:50 PM Unknown
131	i2082817a	LCSD 480-374149/3-A	08/28/17 06:54 PM Unknown
132	i2082817a	480-123261-D-1-A	08/28/17 06:57 PM Unknown
133	i2082817a	480-123261-D-1-Apds	08/28/17 07:01 PM Unknown
134	i2082817a	480-123261-D-1-Asd@5	08/28/17 07:04 PM Unknown
135	i2082817a	CCV-4198708	08/28/17 07:08 PM QC
136	i2082817a	CCB-4204839	08/28/17 07:11 PM QC
137	i2082817a	CCVL-4195955	08/28/17 07:15 PM QC
138	i2082817a	480-123261-D-1-B MS	08/28/17 07:19 PM Unknown
139	i2082817a	480-123261-D-1-C MSD	08/28/17 07:22 PM Unknown
140	i2082817a	480-123261-D-2-A	08/28/17 07:26 PM Unknown
141	i2082817a	480-123261-C-3-A	08/28/17 07:29 PM Unknown
142	i2082817a	480-123261-C-4-A	08/28/17 07:33 PM Unknown
143	i2082817a	190-14287-C-1-A	08/28/17 07:37 PM Unknown
144	i2082817a	190-14287-P-2-A	08/28/17 07:40 PM Unknown
145	i2082817a	190-14287-P-3-A	08/28/17 07:44 PM Unknown
146	i2082817a	190-14276-D-1-A	08/28/17 07:47 PM Unknown

147	i2082817a	CCV-4198708	08/28/17 07:51 PM QC
148	i2082817a	CCB-4204839	08/28/17 07:54 PM QC
149	i2082817a	CCVL-4195955	08/28/17 07:58 PM QC
150	i2082817a	190-14276-D-2-A	08/28/17 08:02 PM Unknown
151	i2082817a	190-14276-D-3-A	08/28/17 08:05 PM Unknown
152	i2082817a	190-14276-D-4-A	08/28/17 08:09 PM Unknown
153	i2082817a	190-14276-D-5-A	08/28/17 08:12 PM Unknown
154	i2082817a	190-14276-D-6-A	08/28/17 08:16 PM Unknown
155	i2082817a	190-14295-D-1-A	08/28/17 08:19 PM Unknown
156	i2082817a	190-14295-D-2-A	08/28/17 08:23 PM Unknown
157	i2082817a	190-14295-D-3-A	08/28/17 08:27 PM Unknown
158	i2082817a	190-14295-D-4-A	08/28/17 08:30 PM Unknown
159	i2082817a	CCV-4198708	08/28/17 08:34 PM QC
160	i2082817a	CCB-4204839	08/28/17 08:37 PM QC
161	i2082817a	CCVL-4195955	08/28/17 08:41 PM QC
162	i2082817a	480-123285-E-1-A	08/28/17 08:45 PM Unknown
163	i2082817a	480-123285-E-2-A	08/28/17 08:48 PM Unknown
164	i2082817a	480-123285-E-3-A	08/28/17 08:52 PM Unknown
165	i2082817a	blank	08/28/17 08:55 PM Unknown
166	i2082817a	MB 480-373991/1-A	08/28/17 08:59 PM Unknown
167	i2082817a	LCS 480-373991/2-A	08/28/17 09:03 PM Unknown
168	i2082817a	480-123214-C-1-D	08/28/17 09:06 PM Unknown
169	i2082817a	480-123214-C-1-Dpds	08/28/17 09:10 PM Unknown
170	i2082817a	480-123214-C-1-Dsd@5	08/28/17 09:13 PM Unknown
171	i2082817a	CCV-4198708	08/28/17 09:17 PM QC
172	i2082817a	CCB-4204839	08/28/17 09:20 PM QC
173	i2082817a	CCVL-4195955	08/28/17 09:24 PM QC
174	i2082817a	480-123214-C-1-E MS	08/28/17 09:28 PM Unknown
175	i2082817a	480-123214-C-1-F MSD	08/28/17 09:31 PM Unknown
176	i2082817a	480-123214-C-2-B	08/28/17 09:35 PM Unknown
177	i2082817a	480-123214-C-3-B	08/28/17 09:38 PM Unknown
178	i2082817a	480-123214-C-4-B	08/28/17 09:42 PM Unknown
179	i2082817a	480-123214-C-5-B	08/28/17 09:46 PM Unknown
180	i2082817a	480-123214-C-6-B	08/28/17 09:49 PM Unknown
181	i2082817a	480-123173-B-13-A	08/28/17 09:53 PM Unknown
182	i2082817a	480-123173-B-14-A	08/28/17 09:56 PM Unknown
183	i2082817a	CCV-4198708	08/28/17 10:00 PM QC
184	i2082817a	CCB-4204839	08/28/17 10:03 PM QC
185	i2082817a	CCVL-4195955	08/28/17 10:07 PM QC
186	i2082817a	480-123209-A-5-A	08/28/17 10:11 PM Unknown
187	i2082817a	480-123158-D-1-A	08/28/17 10:14 PM Unknown
188	i2082817a	480-123158-D-2-A	08/28/17 10:18 PM Unknown
189	i2082817a	480-123158-D-3-A	08/28/17 10:21 PM Unknown
190	i2082817a	480-123158-D-4-A	08/28/17 10:25 PM Unknown
191	i2082817a	480-123158-D-5-A	08/28/17 10:29 PM Unknown
192	i2082817a	480-123158-D-6-A	08/28/17 10:32 PM Unknown
193	i2082817a	480-123158-D-7-A	08/28/17 10:36 PM Unknown
194	i2082817a	480-123169-C-1-A	08/28/17 10:39 PM Unknown
195	i2082817a	CCV-4198708	08/28/17 10:43 PM QC
196	i2082817a	CCB-4204839	08/28/17 10:47 PM QC
197	i2082817a	CCVL-4195955	08/28/17 10:50 PM QC
198	i2082817a	480-123168-C-1-A	08/28/17 10:54 PM Unknown

199	i2082817a	480-123168-C-2-A	08/28/17 10:58 PM Unknown
200	i2082817a	480-123168-C-3-A	08/28/17 11:01 PM Unknown
201	i2082817a	mb 480-373988/1-a	08/28/17 11:05 PM Unknown
202	i2082817a	lcs 480-373988/2-a	08/28/17 11:09 PM Unknown
203	i2082817a	lcsd 480-373988/3-a	08/28/17 11:12 PM Unknown
204	i2082817a	480-123173-b-1-b	08/28/17 11:15 PM Unknown
205	i2082817a	480-123173-b-1-bPDS	08/28/17 11:19 PM Unknown
206	i2082817a	480-123173-b-1-bSD@5	08/28/17 11:22 PM Unknown
207	i2082817a	CCV-4198708	08/28/17 11:26 PM QC
208	i2082817a	CCB-4204839	08/28/17 11:30 PM QC
209	i2082817a	CCVL-4195955	08/28/17 11:33 PM QC
210	i2082817a	480-123173-b-1-c ms	08/28/17 11:37 PM Unknown
211	i2082817a	480-123173-b-1-d msd	08/28/17 11:40 PM Unknown
212	i2082817a	480-123173-b-2-d	08/28/17 11:44 PM Unknown
213	i2082817a	480-123173-b-3-b	08/28/17 11:47 PM Unknown
214	i2082817a	480-123173-b-4-b	08/28/17 11:51 PM Unknown
215	i2082817a	480-123173-b-5-b	08/28/17 11:54 PM Unknown
216	i2082817a	480-123173-b-6-b	08/28/17 11:58 PM Unknown
217	i2082817a	480-123173-b-7-b	08/29/17 12:02 AM Unknown
218	i2082817a	480-123173-b-8-b	08/29/17 12:05 AM Unknown
219	i2082817a	CCV-4198708	08/29/17 12:09 AM QC
220	i2082817a	CCB-4204839	08/29/17 12:12 AM QC
221	i2082817a	CCVL-4195955	08/29/17 12:16 AM QC
222	i2082817a	480-123173-b-9-b	08/29/17 12:19 AM Unknown
223	i2082817a	480-123173-b-10-b	08/29/17 12:23 AM Unknown
224	i2082817a	480-123173-c-11-b	08/29/17 12:27 AM Unknown
225	i2082817a	480-123173-c-13-b	08/29/17 12:30 AM Unknown
226	i2082817a	480-123173-c-14-b	08/29/17 12:34 AM Unknown
227	i2082817a	190-14267-d-1-c	08/29/17 12:37 AM Unknown
228	i2082817a	190-14267-c-2-c	08/29/17 12:41 AM Unknown
229	i2082817a	190-14267-c-3-c	08/29/17 12:45 AM Unknown
230	i2082817a	480-123211-a-1-a	08/29/17 12:48 AM Unknown

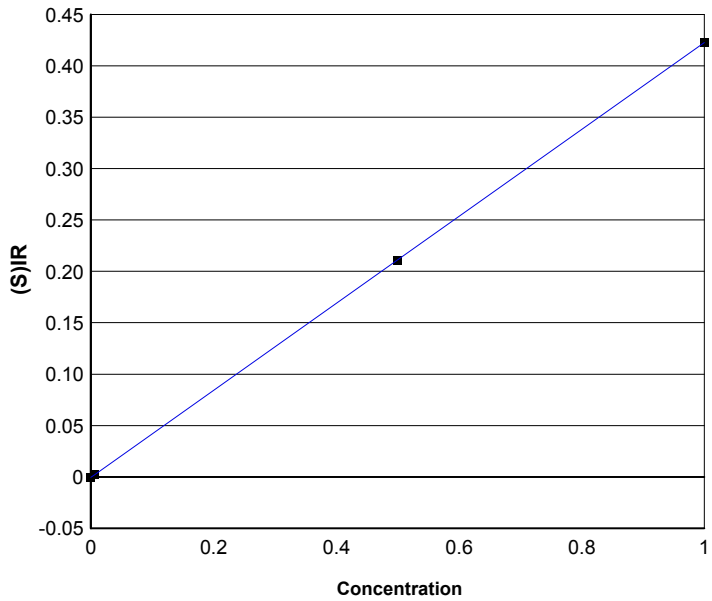
i2082817a

Author: jrk

Published: 8/29/2017 7:59:06AM

Instrument Name: iCAP2 Serial Number: 20094602

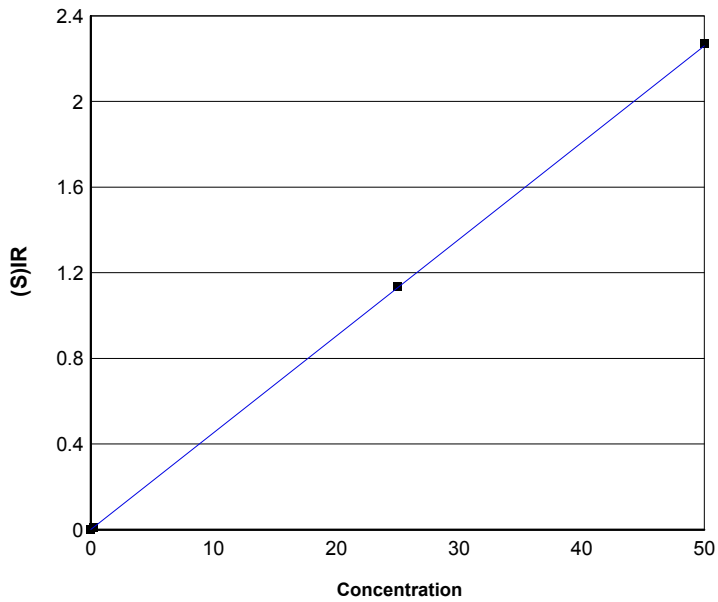
Method Name: ICAP2 June 2017 (95)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00031403
A1 (Gain):	0.42309
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

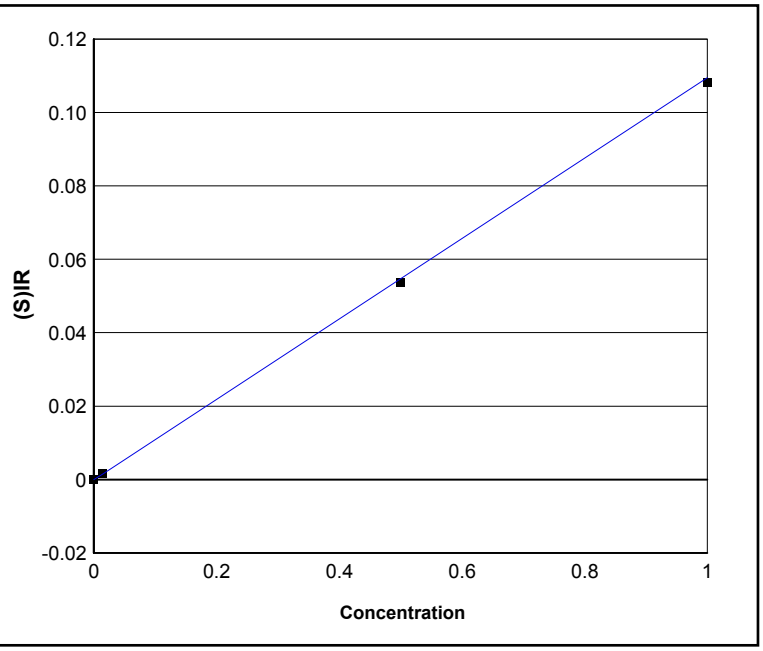
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000003861	-0.0000003861	0.00000	-0.00031420	0.00018699	1
IC-4195955	0.0060000	0.0063936	0.00039359	6.5598	0.0023910	0.00031499	1
IC-4207542	0.50000	0.49915	-0.00084976	-0.16995	0.21087	0.00027918	1
IC-4207541	1.0000	1.0005	0.00045617	0.045617	0.42297	0.0019179	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0016750
A1 (Gain):	0.045177
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

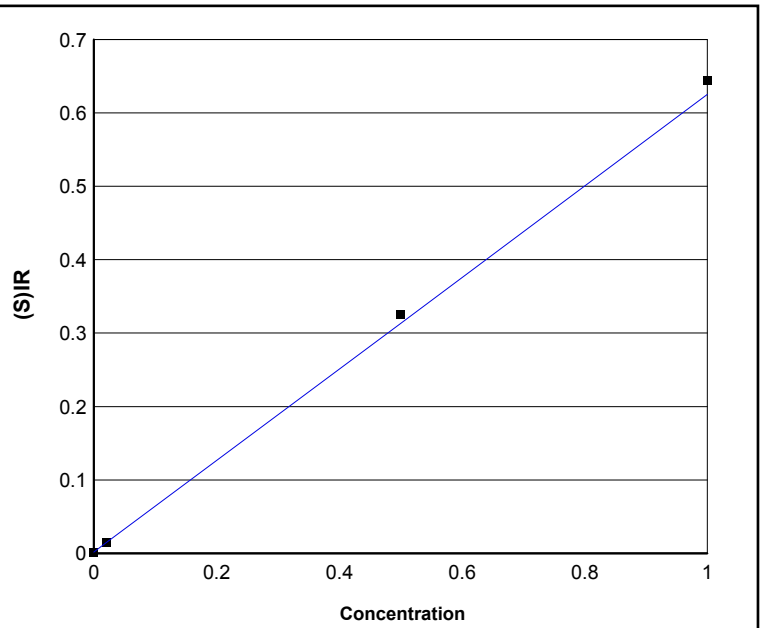
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.000011769	0.000011769	0.00000	0.0016755	0.00075184	1
IC-4195955	0.20000	0.18819	-0.011810	-5.9050	0.010227	0.00073630	1
IC-4207542	25.000	24.998	-0.0015681	-0.0062726	1.1360	0.0068245	1
IC-4207541	50.000	50.013	0.013391	0.026782	2.2711	0.014644	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.000065247
A1 (Gain):	0.10958
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

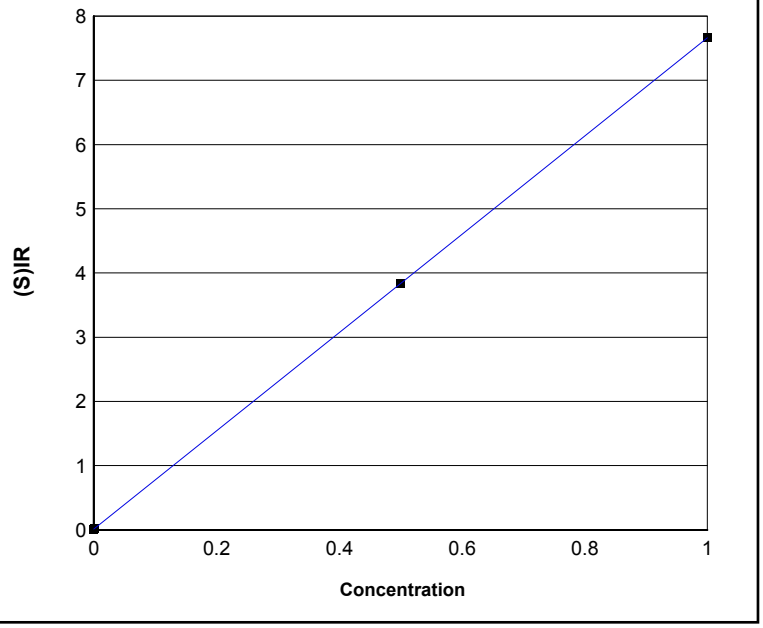
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001607	0.0000001607	0.00000	-0.000065229	0.00017810	1
IC-4195955	0.015000	0.014863	-0.00013707	-0.91383	0.0015568	0.00040055	1
IC-4207542	0.50000	0.49828	-0.0017156	-0.34313	0.053714	0.00011934	1
IC-4207541	1.0000	1.0019	0.0018542	0.18542	0.10807	0.000049949	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0015970
A1 (Gain):	0.62362
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

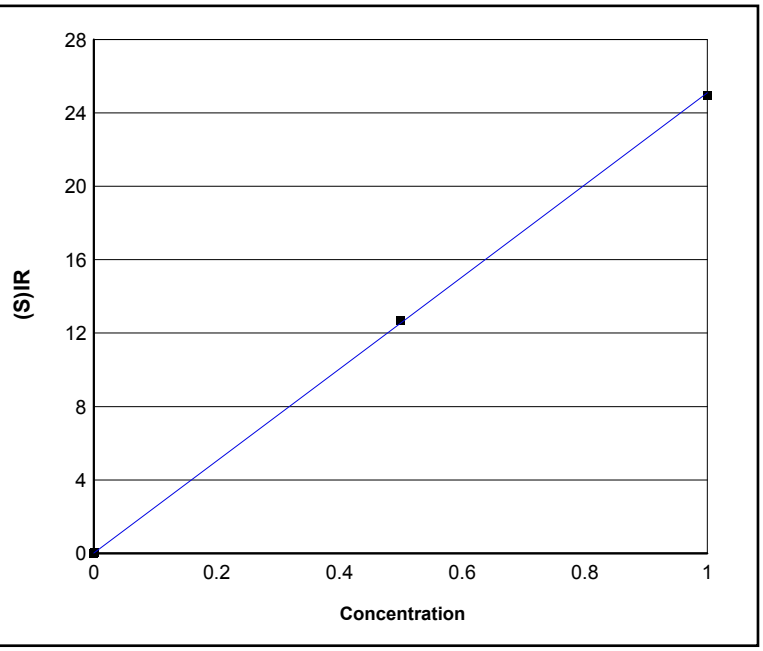
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001273	-0.0000001273	0.00000	0.0015969	0.000093456	1
IC-4195955	0.020000	0.020088	0.000088317	0.44158	0.014325	0.000023764	1
IC-4207542	0.50000	0.50204	0.0020375	0.40749	0.32470	0.00037112	1
IC-4207541	1.0000	0.99788	-0.0021244	-0.21244	0.64394	0.0000095135	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.014261
A1 (Gain):	7.6495
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

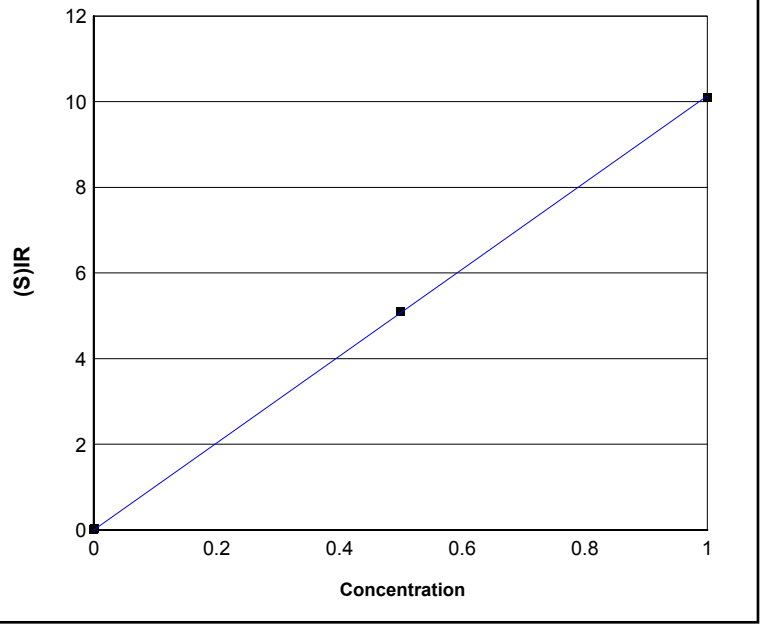
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001720	0.0000001720	0.00000	0.014262	0.00070843	1
IC-4195955	0.0020000	0.0018282	-0.00017179	-8.5897	0.028246	0.0024957	1
IC-4207542	0.50000	0.49971	-0.00029250	-0.058501	3.8368	0.0077416	1
IC-4207541	1.0000	1.0005	0.00046430	0.046430	7.6673	0.014209	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0087863
A1 (Gain):	25.088
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

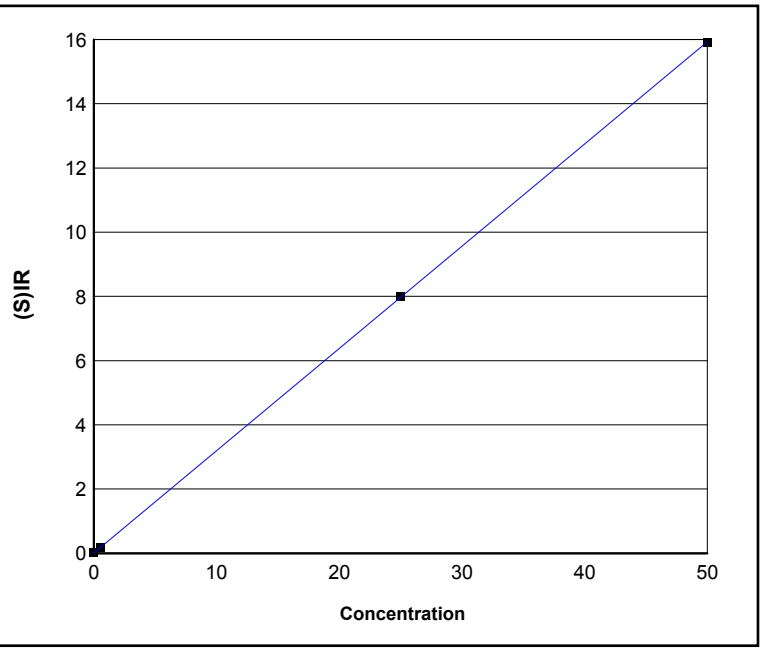
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000993	-0.0000000993	0.00000	0.0087838	0.000093770	1
IC-4195955	0.0020000	0.0020891	0.000089128	4.4564	0.061198	0.000025170	1
IC-4207542	0.50000	0.50518	0.0051799	1.0360	12.683	0.033159	1
IC-4207541	1.0000	0.99473	-0.0052690	-0.52690	24.965	0.11487	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0013901
A1 (Gain):	10.138
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

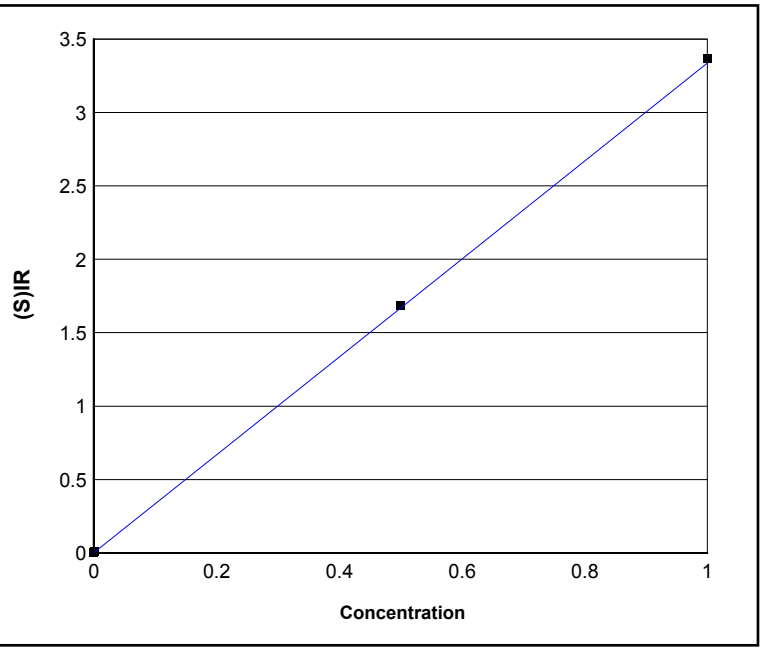
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000253	-0.0000000253	0.00000	0.0013899	0.00012345	1
IC-4195955	0.0020000	0.0020167	0.000016671	0.83353	0.021799	0.0016159	1
IC-4207542	0.50000	0.50432	0.0043209	0.86418	5.1106	0.024021	1
IC-4207541	1.0000	0.99566	-0.0043376	-0.43376	10.088	0.0083760	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.010027
A1 (Gain):	0.31849
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

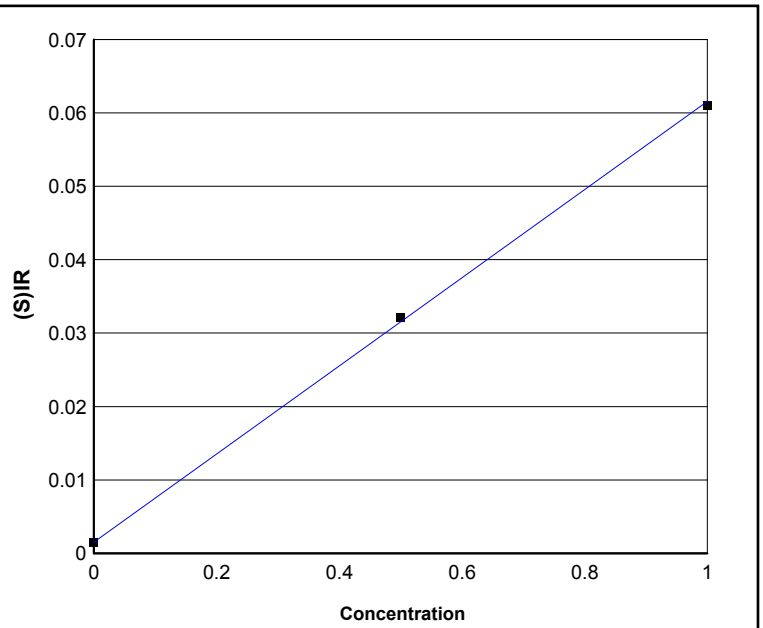
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000059457	-0.0000059457	0.00000	0.010025	0.00086793	1
IC-4195955	0.50000	0.50548	0.0054825	1.0965	0.17102	0.00079349	1
IC-4207542	25.000	25.052	0.051803	0.20721	7.9888	0.031054	1
IC-4207541	50.000	49.943	-0.057286	-0.11457	15.916	0.078127	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00099237
A1 (Gain):	3.3364
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

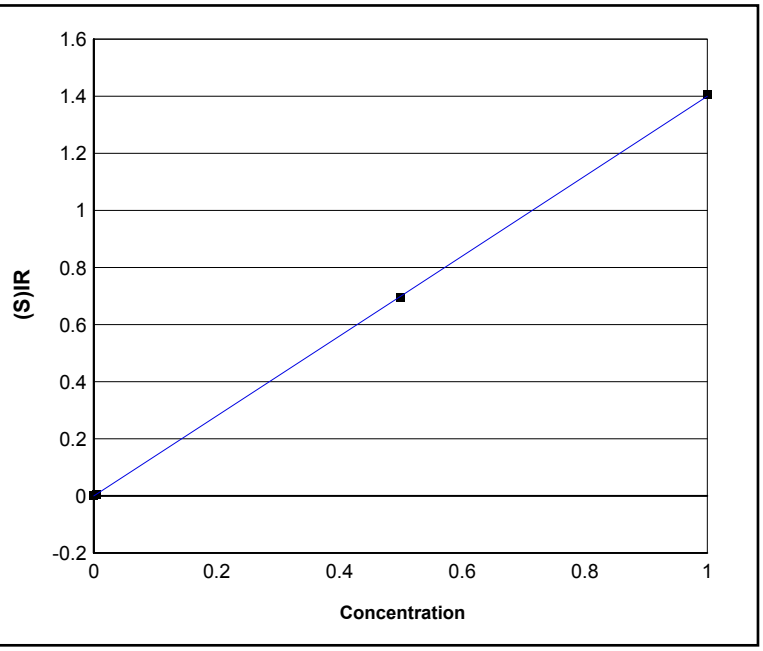
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000535	-0.0000000535	0.00000	0.00099219	0.000021855	1
IC-4195955	0.0020000	0.0020535	0.000053487	2.6743	0.0082813	0.000045777	1
IC-4207542	0.50000	0.50005	0.000047861	0.0095722	1.6839	0.00098580	1
IC-4207541	1.0000	0.99990	-0.00010437	-0.010437	3.3660	0.0016631	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.9999
A0 (Offset):	0.001496
A1 (Gain):	0.06009
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

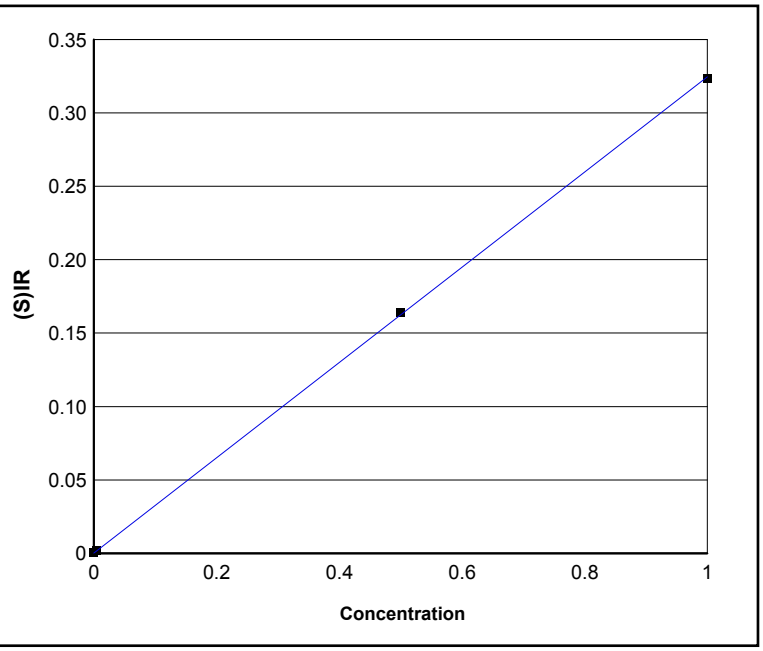
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000	-0.000005201	-0.000005201	0.0000	0.001496	0.0005802	1
IC-4207542	0.5000	0.5104	0.01040	2.080	0.03217	0.0003839	1
IC-4207541	1.000	0.9896	-0.01040	-1.040	0.06096	0.001943	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000058601
A1 (Gain):	1.3997
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

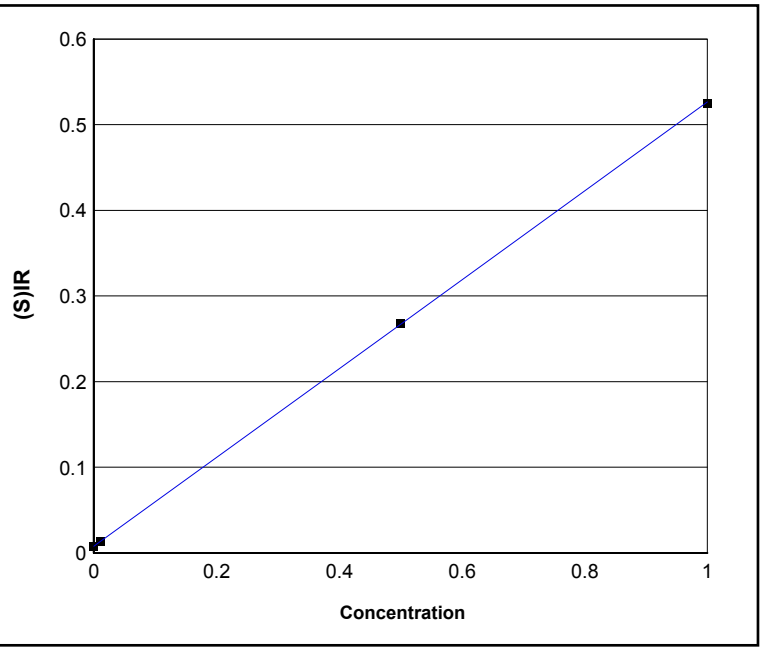
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001168	0.0000001168	0.00000	-0.000058438	0.000036353	1
IC-4195955	0.0040000	0.0038992	-0.00010081	-2.5203	0.0053970	0.00018584	1
IC-4207542	0.50000	0.49591	-0.0040919	-0.81837	0.69468	0.0017468	1
IC-4207541	1.0000	1.0042	0.0041926	0.41926	1.4067	0.000062080	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00020333
A1 (Gain):	0.32445
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

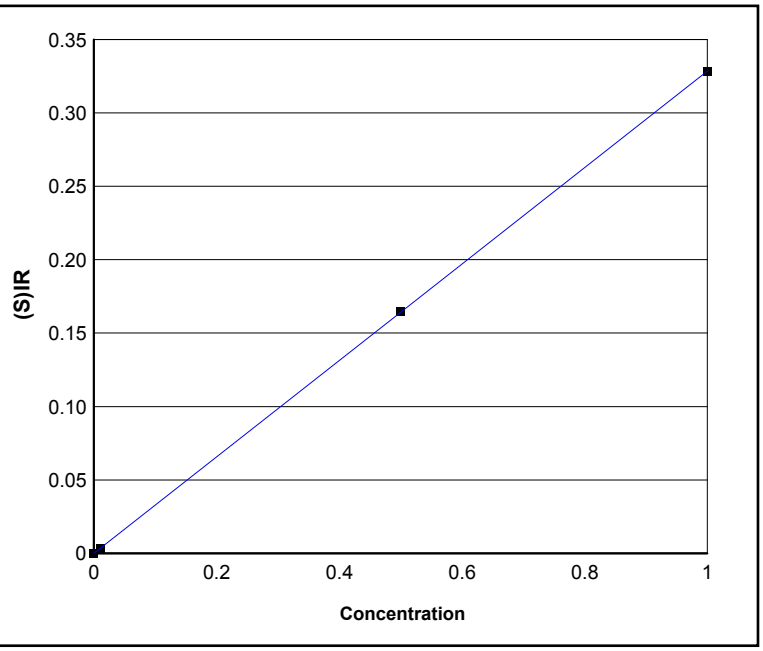
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001224	-0.0000001224	0.00000	0.00020329	0.00015776	1
IC-4195955	0.0040000	0.0041049	0.00010491	2.6226	0.0015351	0.00020433	1
IC-4207542	0.50000	0.50447	0.0044707	0.89415	0.16383	0.00048535	1
IC-4207541	1.0000	0.99542	-0.0045757	-0.45757	0.32307	0.0010854	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0076413
A1 (Gain):	0.51893
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

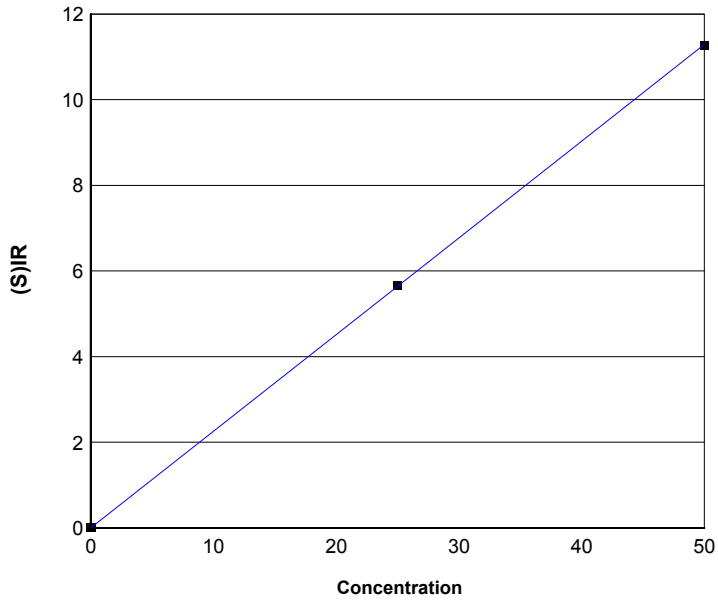
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000970	-0.0000000970	0.00000	0.0076413	0.00010592	1
IC-4195955	0.010000	0.010073	0.000073387	0.73387	0.012869	0.000017206	1
IC-4207542	0.50000	0.50243	0.0024302	0.48604	0.26837	0.00061186	1
IC-4207541	1.0000	0.99750	-0.0025036	-0.25036	0.52527	0.0014054	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000052904
A1 (Gain):	0.32834
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

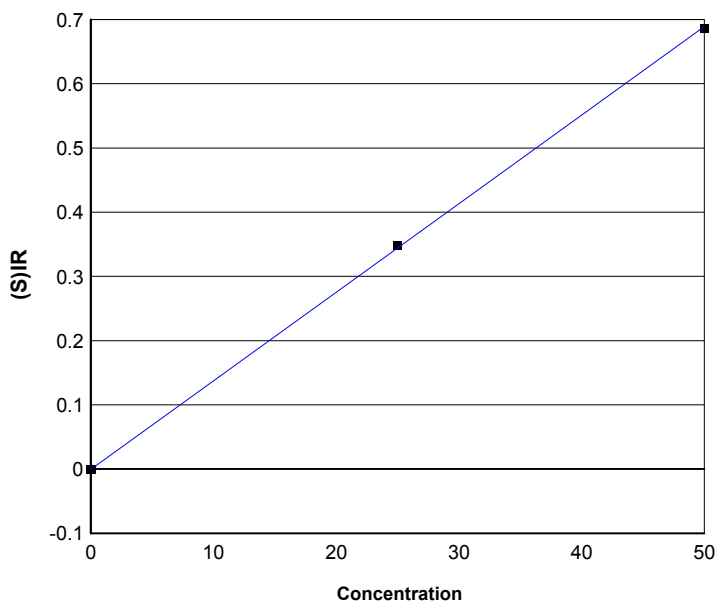
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000003653	-0.0000003653	0.00000	0.000052784	0.00031444	1
IC-4195955	0.010000	0.010360	0.00036000	3.6000	0.0034586	0.00031312	1
IC-4207542	0.50000	0.50089	0.00089214	0.17843	0.16468	0.00065843	1
IC-4207541	1.0000	0.99875	-0.0012522	-0.12522	0.32831	0.00055333	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0021818
A1 (Gain):	0.22581
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

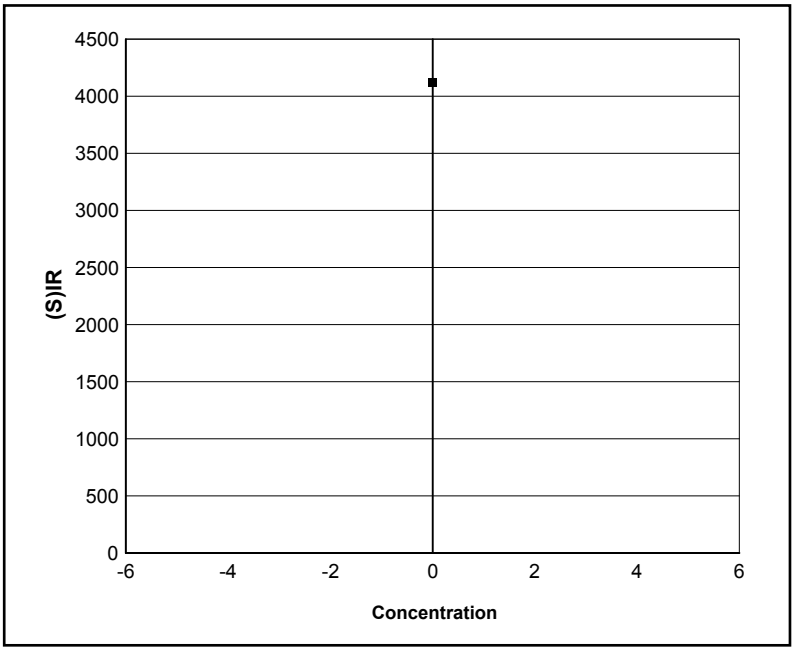
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000030390	0.0000030390	0.00000	0.0021825	0.00030829	1
IC-4195955	0.050000	0.046847	-0.0031525	-6.3050	0.012761	0.0000046987	1
IC-4207542	25.000	25.110	0.11039	0.44155	5.6725	0.0043482	1
IC-4207541	50.000	49.893	-0.10724	-0.21447	11.269	0.034728	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00021442
A1 (Gain):	0.013788
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

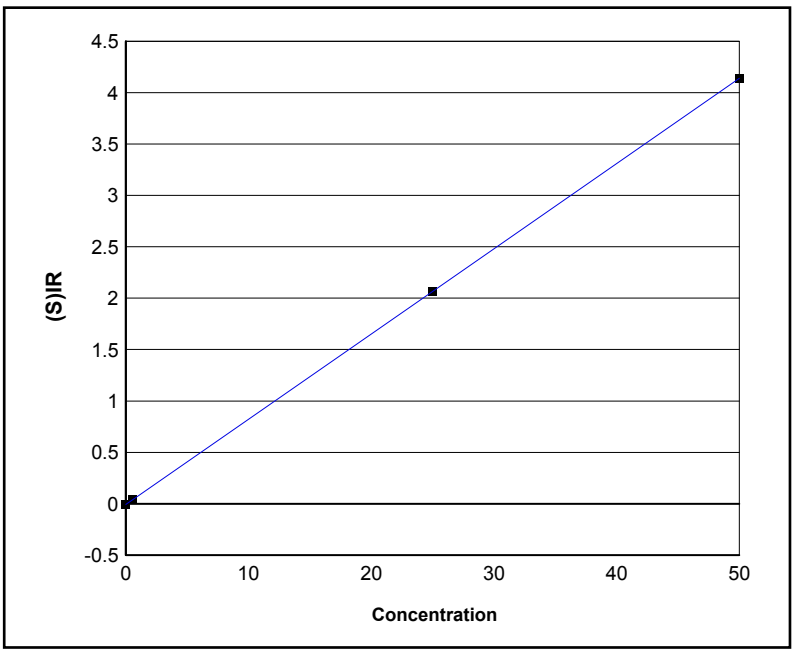
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.000023472	0.000023472	0.00000	-0.00021410	0.00091163	1
IC-4195955	0.050000	0.026277	-0.023723	-47.447	0.00014789	0.00039250	1
IC-4207542	25.000	25.228	0.22766	0.91064	0.34763	0.0027434	1
IC-4207541	50.000	49.796	-0.20394	-0.40787	0.68639	0.0039272	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:05:56AM
Date of Fit:	8/28/2017 11:05:56AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

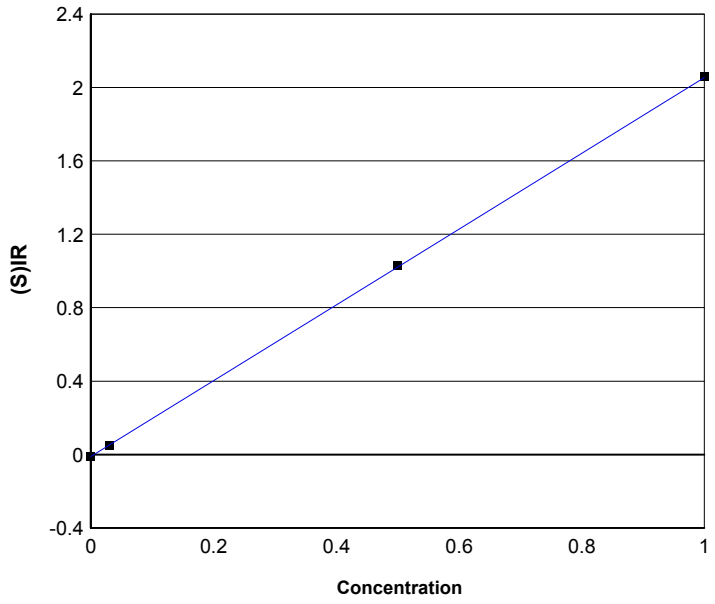
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	4,117	1.442	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0076280
A1 (Gain):	0.082948
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

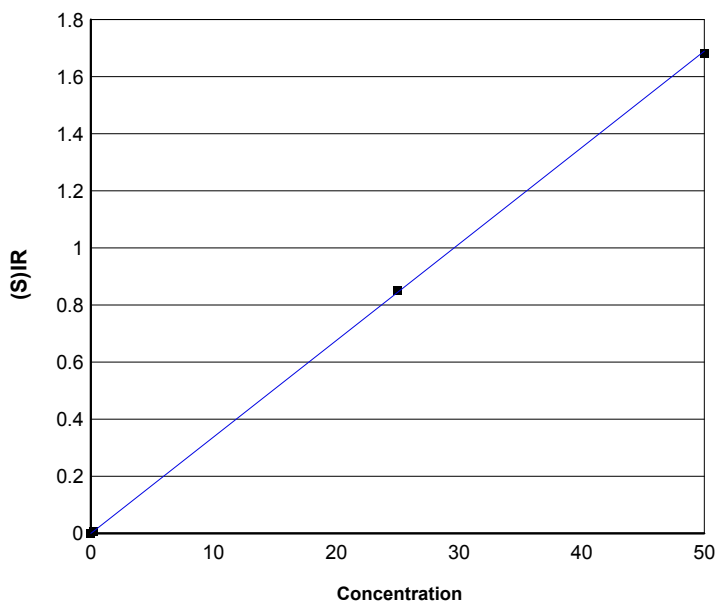
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	-0.000034085	-0.000034085	0.00000	-0.0076308	0.0016636	1
IC-4195955	0.50000	0.53410	0.034102	6.8204	0.036675	0.00036238	1
IC-4207542	25.000	25.032	0.032425	0.12970	2.0688	0.010965	1
IC-4207541	50.000	49.933	-0.066527	-0.13305	4.1342	0.0043152	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.010428
A1 (Gain):	2.0642
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

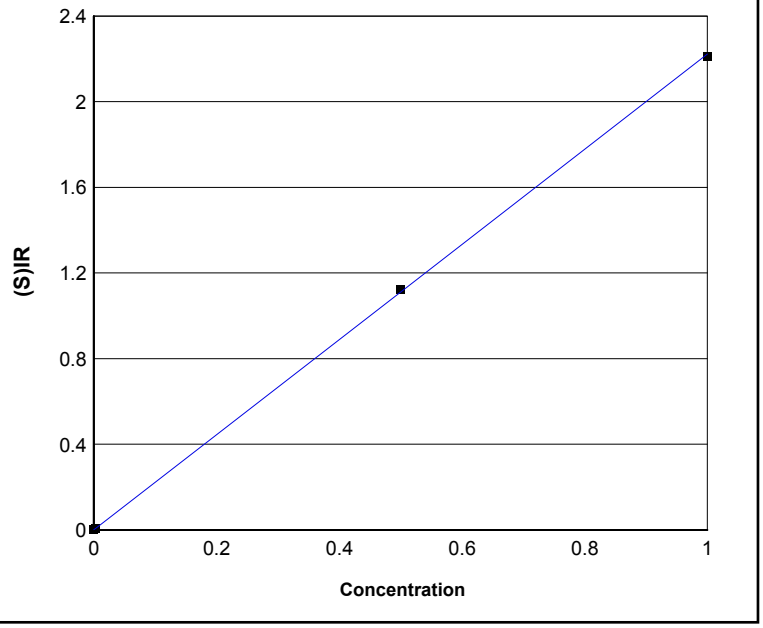
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001590	0.0000001590	0.00000	-0.010428	0.00027336	1
IC-4195955	0.030000	0.029799	-0.00020082	-0.66942	0.051185	0.0016674	1
IC-4207542	0.50000	0.50120	0.0011953	0.23905	1.0293	0.011880	1
IC-4207541	1.0000	0.99900	-0.00099511	-0.099511	2.0620	0.0097322	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00013132
A1 (Gain):	0.033783
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

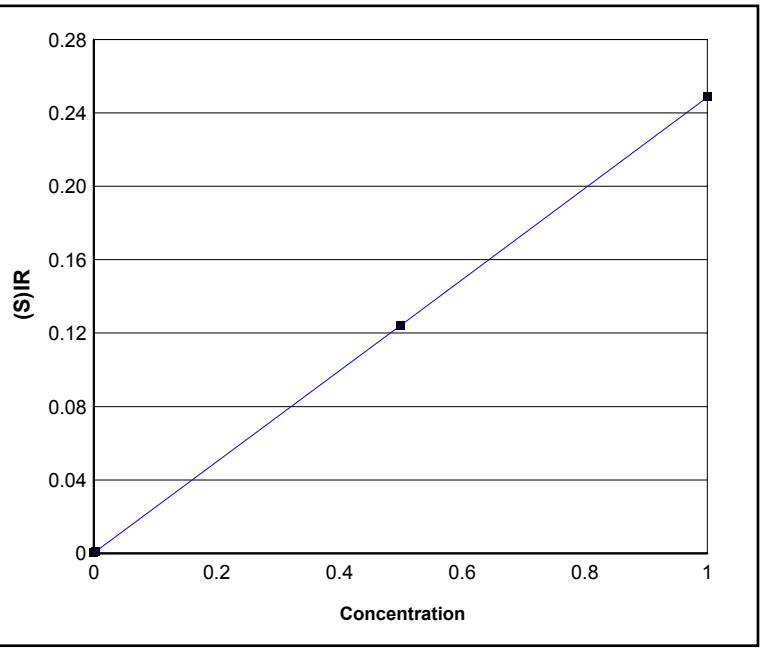
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000051552	-0.0000051552	0.00000	0.00013115	0.00013230	1
IC-4195955	0.20000	0.20440	0.0044039	2.2020	0.0070364	0.000068678	1
IC-4207542	25.000	25.192	0.19223	0.76891	0.85115	0.0024163	1
IC-4207541	50.000	49.803	-0.19663	-0.39326	1.6825	0.0033450	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00085207
A1 (Gain):	2.2212
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

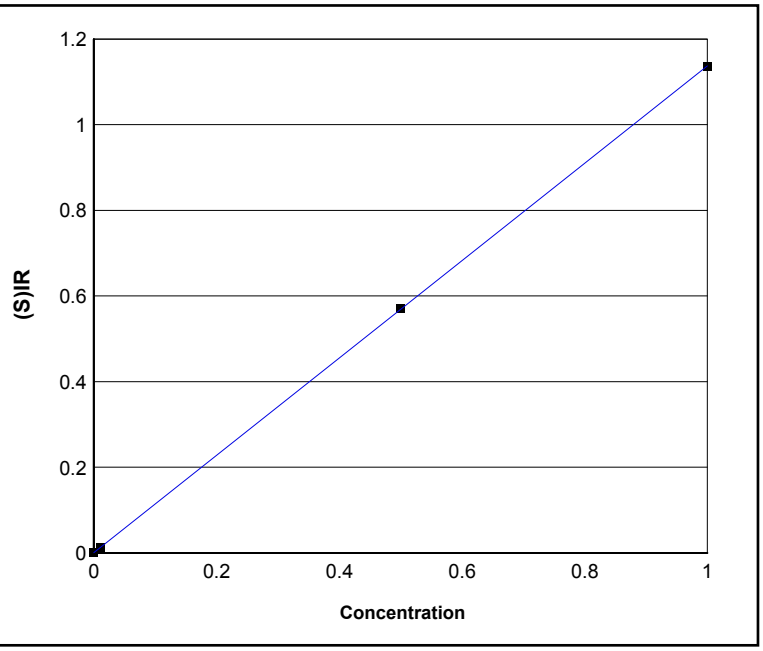
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000657	-0.0000000657	0.00000	0.00085192	0.000038503	1
IC-4195955	0.0030000	0.0030512	0.000051216	1.7072	0.0076321	0.00010396	1
IC-4207542	0.50000	0.50489	0.0048879	0.97758	1.1233	0.0061888	1
IC-4207541	1.0000	0.99506	-0.0049391	-0.49391	2.2130	0.0028161	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00020755
A1 (Gain):	0.24824
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

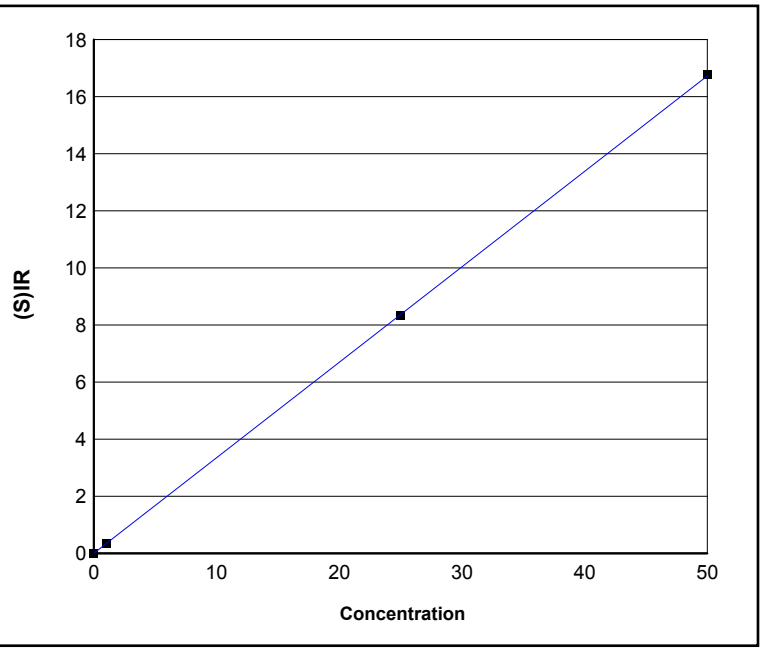
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000102	-0.0000000102	0.00000	0.00020754	0.000048172	1
IC-4195955	0.0030000	0.0030110	0.000011007	0.36691	0.00095531	0.000044683	1
IC-4207542	0.50000	0.49975	-0.00025380	-0.050760	0.12438	0.00058131	1
IC-4207541	1.0000	1.0002	0.00024280	0.024280	0.24873	0.0023487	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00065283
A1 (Gain):	1.1370
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

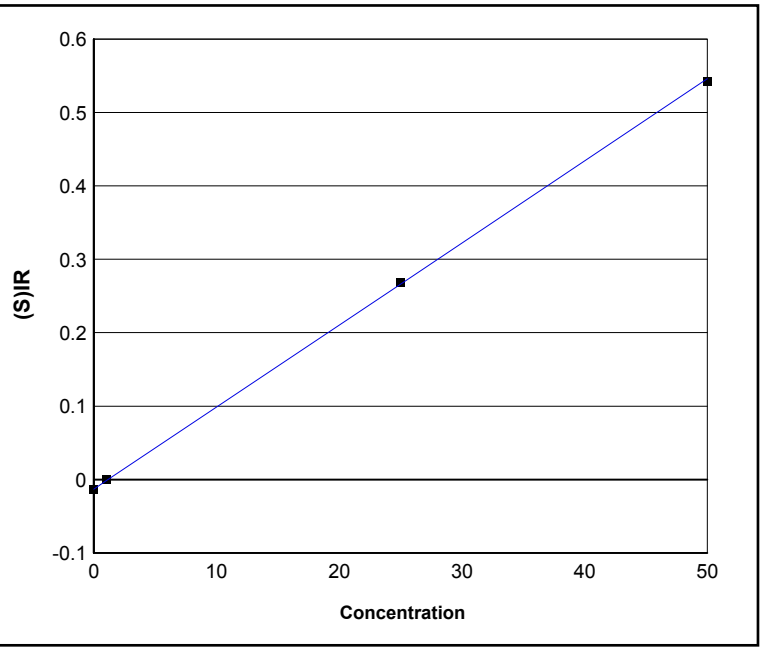
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001531	0.0000001531	0.00000	0.00065301	0.00018843	1
IC-4195955	0.010000	0.0098361	-0.00016394	-1.6394	0.011837	0.00023444	1
IC-4207542	0.50000	0.50092	0.00092461	0.18492	0.57021	0.00089462	1
IC-4207541	1.0000	0.99924	-0.00076067	-0.076067	1.1368	0.00047539	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0026826
A1 (Gain):	0.33454
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

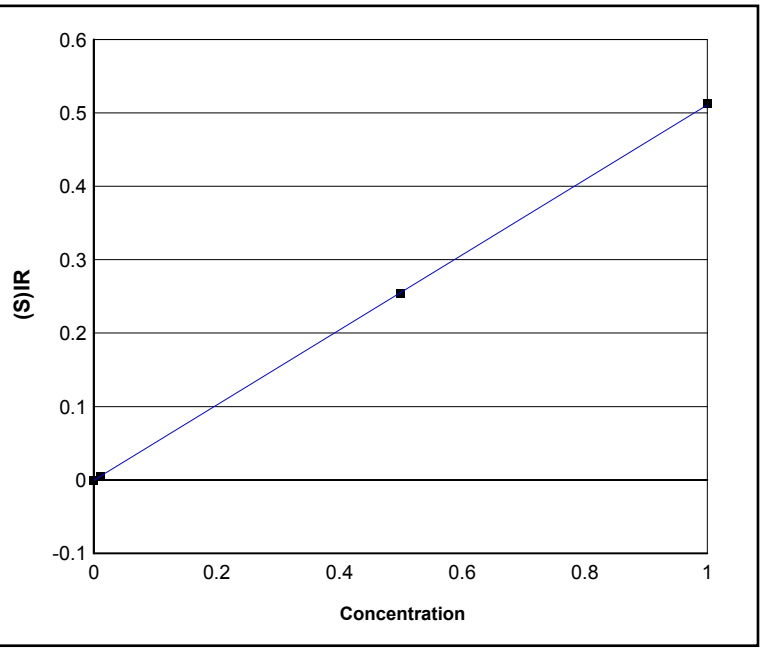
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000043650	0.0000043650	0.00000	0.0026840	0.0018991	1
IC-4195955	1.0000	0.99801	-0.0019900	-0.19900	0.33656	0.00066252	1
IC-4207542	25.000	24.879	-0.12074	-0.48296	8.3259	0.042663	1
IC-4207541	50.000	50.123	0.12273	0.24546	16.771	0.063362	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99972
A0 (Offset):	-0.013246
A1 (Gain):	0.011186
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

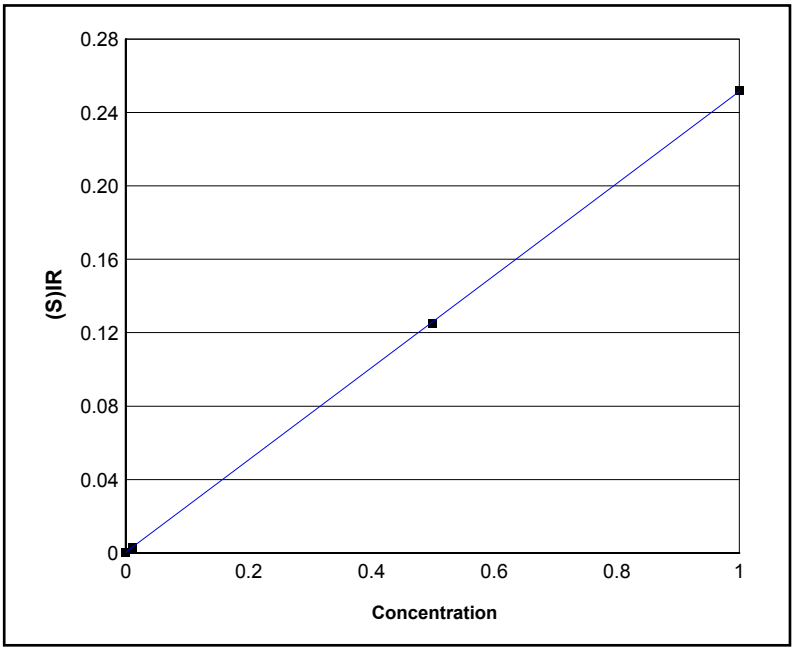
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	-0.00019563	-0.00019563	0.00000	-0.013249	0.0020136	1
IC-4195955	1.0000	1.1962	0.19615	19.615	0.00013375	0.0015459	1
IC-4207542	25.000	25.170	0.16982	0.67928	0.26830	0.0010829	1
IC-4207541	50.000	49.634	-0.36597	-0.73195	0.54196	0.0014616	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00062640
A1 (Gain):	0.51172
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

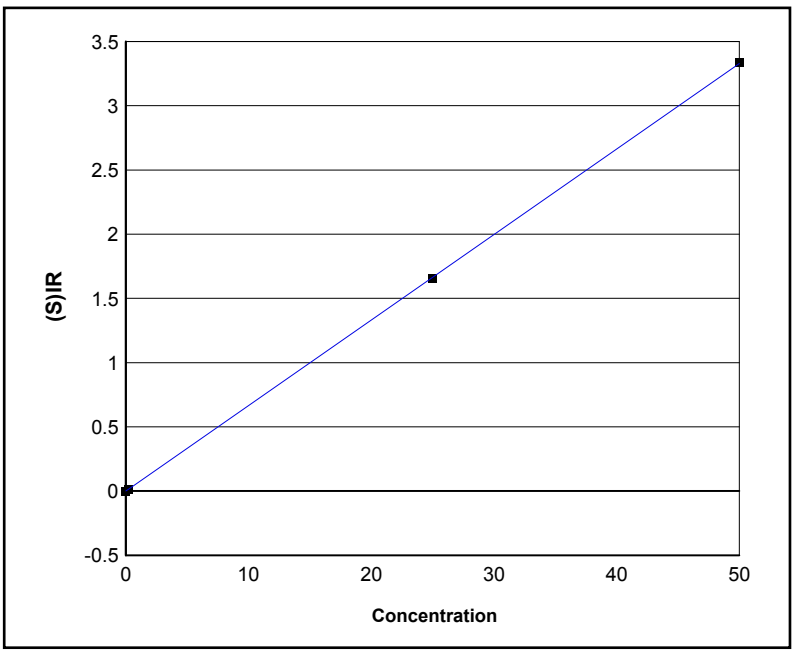
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000004283	0.0000004283	0.00000	-0.00062618	0.000096908	1
IC-4195955	0.010000	0.0095983	-0.00040166	-4.0166	0.0042858	0.0000062948	1
IC-4207542	0.50000	0.49693	-0.0030663	-0.61326	0.25394	0.000026834	1
IC-4207541	1.0000	1.0035	0.0034676	0.34676	0.51341	0.00028987	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00039097
A1 (Gain):	0.25103
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

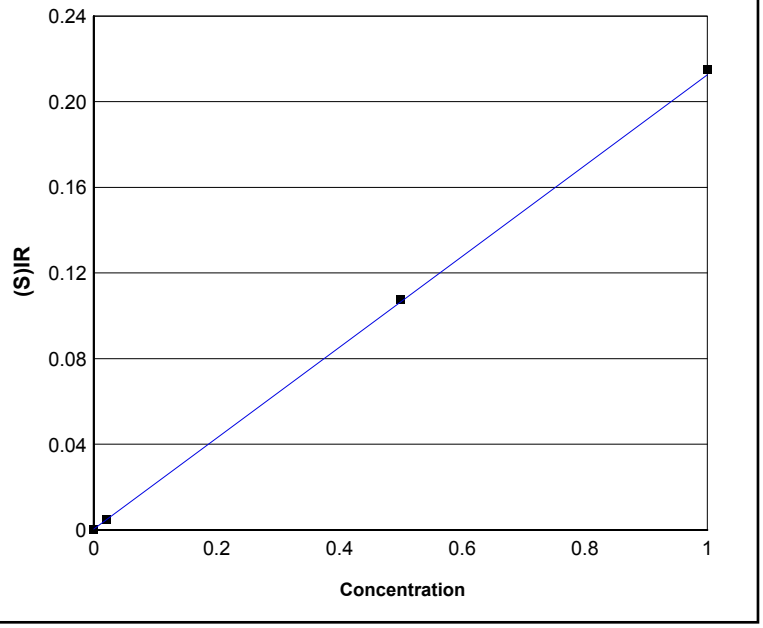
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002592	0.0000002592	0.00000	0.00039103	0.00017374	1
IC-4195955	0.010000	0.0097722	-0.00022782	-2.2782	0.0028385	0.00018688	1
IC-4207542	0.50000	0.49664	-0.0033644	-0.67287	0.12477	0.00033749	1
IC-4207541	1.0000	1.0036	0.0035922	0.35922	0.25175	0.00025210	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000084591
A1 (Gain):	0.066550
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

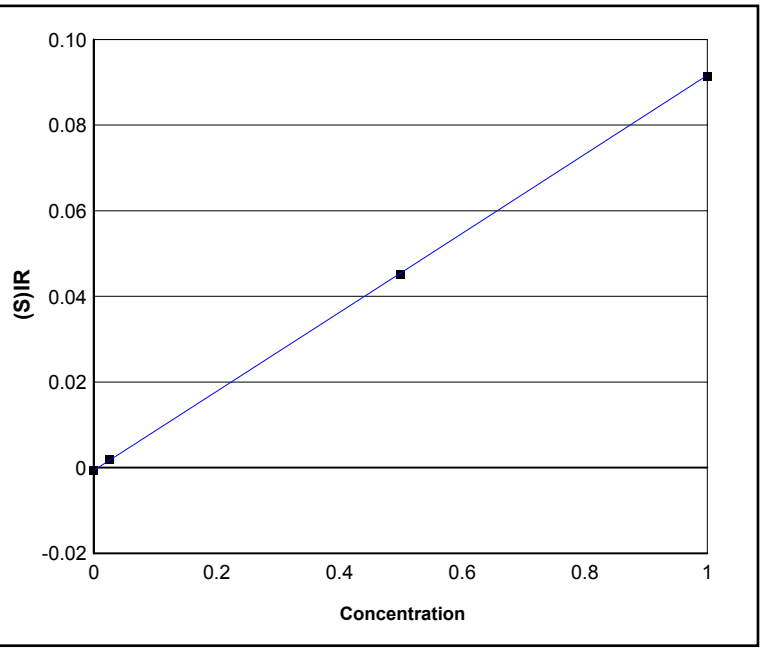
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000004460	0.0000004460	0.00000	-0.000084561	0.000029536	1
IC-4195955	0.20000	0.20001	0.000010713	0.0053565	0.013226	0.00031582	1
IC-4207542	25.000	24.886	-0.11417	-0.45666	1.6561	0.000084151	1
IC-4207541	50.000	50.114	0.11415	0.22831	3.3350	0.0015021	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00036213
A1 (Gain):	0.21222
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

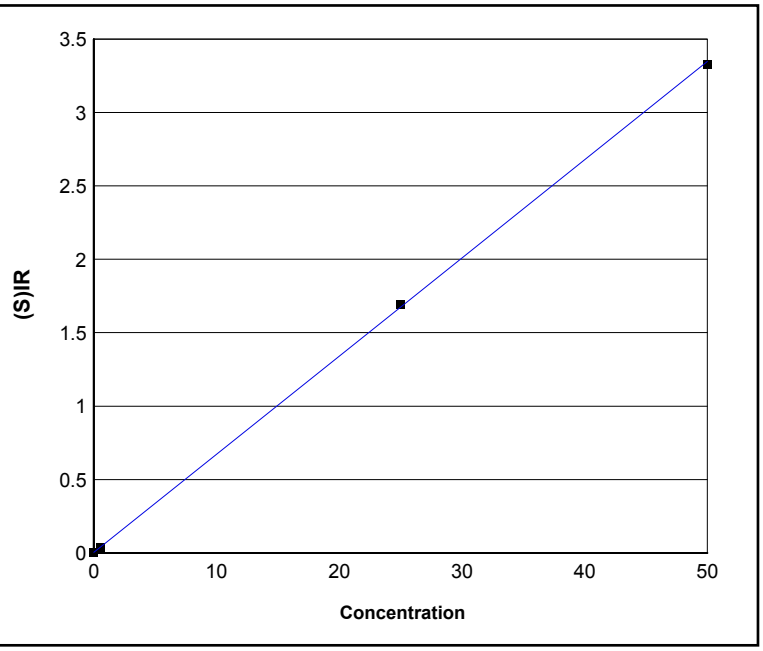
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001771	-0.0000001771	0.00000	0.00036209	0.000022288	1
IC-4195955	0.020000	0.020178	0.00017754	0.88771	0.0046545	0.00011445	1
IC-4207542	0.50000	0.50016	0.00015559	0.031117	0.10774	0.00033399	1
IC-4207541	1.0000	0.99967	-0.00033151	-0.033151	0.21498	0.00022070	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99983
A0 (Offset):	-0.00063872
A1 (Gain):	0.092272
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

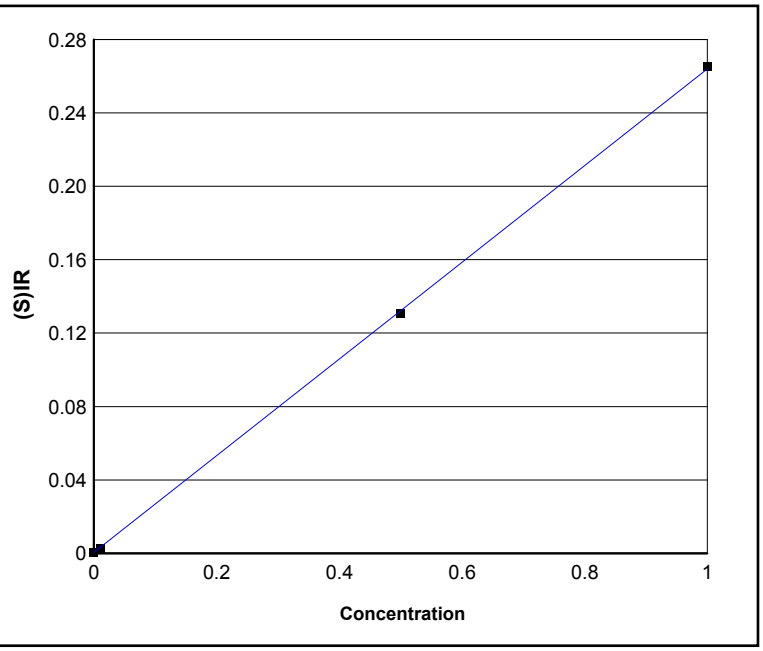
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000034212	-0.0000034212	0.00000	-0.00063903	0.00020251	1
IC-4195955	0.025000	0.028583	0.0035832	14.333	0.0019981	0.000090212	1
IC-4207542	0.50000	0.49711	-0.0028921	-0.57843	0.045158	0.00027535	1
IC-4207541	1.0000	0.99930	-0.00069569	-0.069569	0.091425	0.00047041	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0034323
A1 (Gain):	0.066869
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

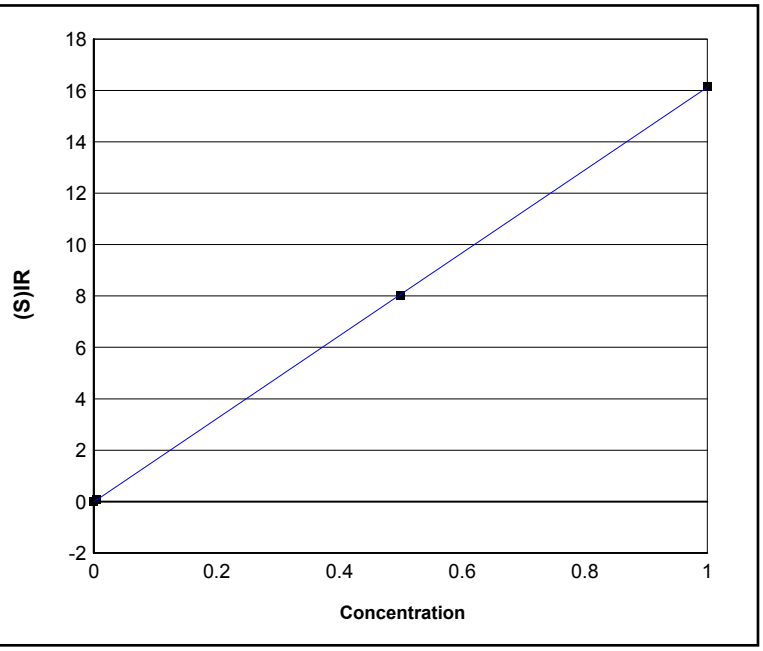
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000025272	-0.0000025272	0.00000	0.0034321	0.00085208	1
IC-4195955	0.50000	0.49938	-0.00061658	-0.12332	0.036825	0.000093330	1
IC-4207542	25.000	25.314	0.31376	1.2550	1.6961	0.011551	1
IC-4207541	50.000	49.687	-0.31314	-0.62629	3.3259	0.018417	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00041643
A1 (Gain):	0.26365
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

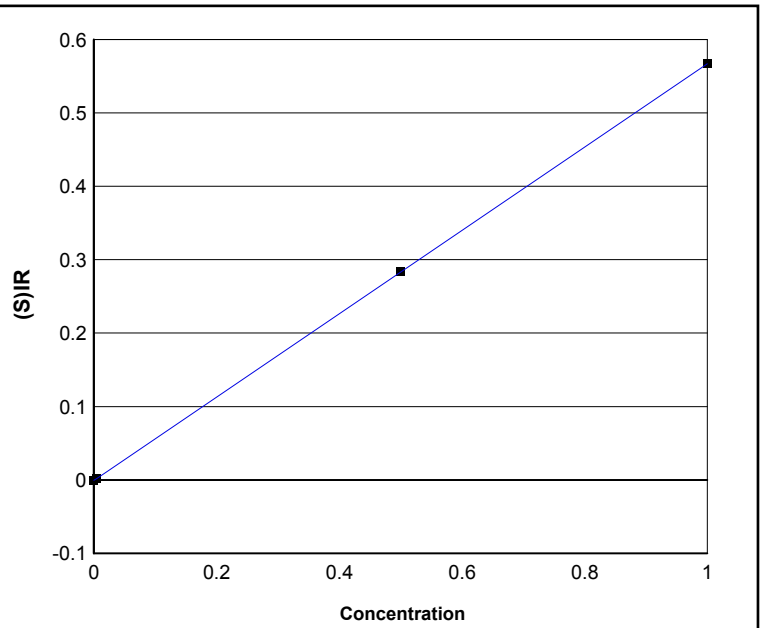
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000006447	0.0000006447	0.00000	0.00041660	0.00014471	1
IC-4195955	0.010000	0.0093970	-0.00060301	-6.0301	0.0028939	0.000074925	1
IC-4207542	0.50000	0.49522	-0.0047756	-0.95512	0.13098	0.00046561	1
IC-4207541	1.0000	1.0054	0.0053786	0.53786	0.26548	0.00067967	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:30AM
Date of Fit:	8/28/2017 11:16:30AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0031963
A1 (Gain):	16.129
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

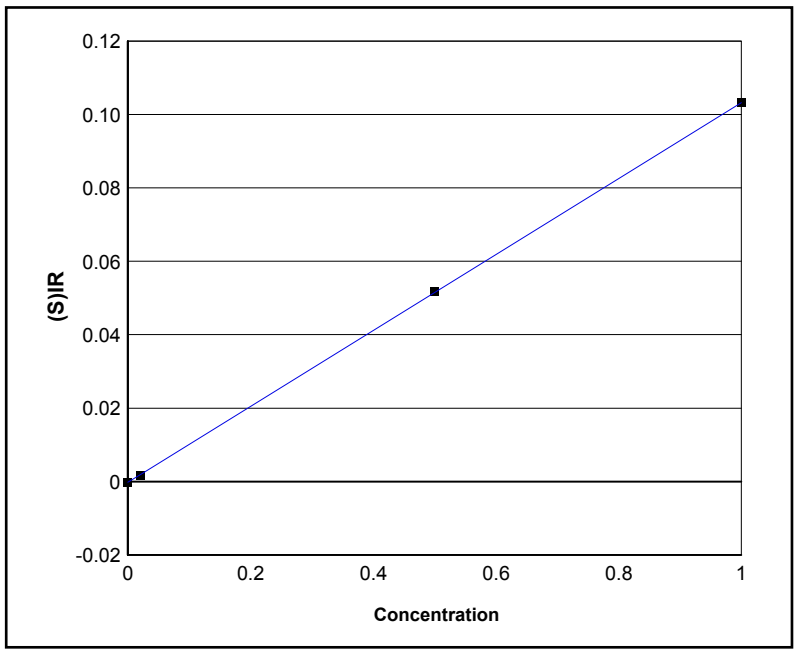
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000220	-0.0000000220	0.00000	-0.0031967	0.00072475	1
IC-4195955	0.0050000	0.0050336	0.000033576	0.67151	0.077992	0.00062336	1
IC-4207542	0.50000	0.49772	-0.0022785	-0.45570	8.0247	0.051269	1
IC-4207541	1.0000	1.0022	0.0022449	0.22449	16.162	0.031201	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:30AM
Date of Fit:	8/28/2017 11:16:30AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00075865
A1 (Gain):	0.56766
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

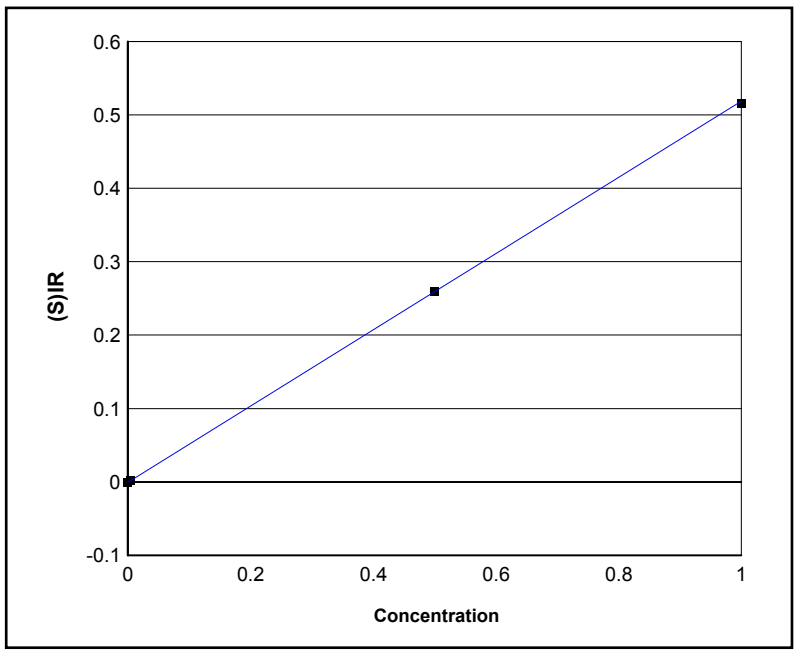
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001481	-0.0000001481	0.00000	-0.00075874	0.000013535	1
IC-4195955	0.0050000	0.0051426	0.00014263	2.8526	0.0021677	0.00016011	1
IC-4207542	0.50000	0.50123	0.0012301	0.24602	0.28417	0.00013125	1
IC-4207541	1.0000	0.99863	-0.0013729	-0.13729	0.56692	0.0024275	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:30AM
Date of Fit:	8/28/2017 11:16:30AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00023923
A1 (Gain):	0.10344
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

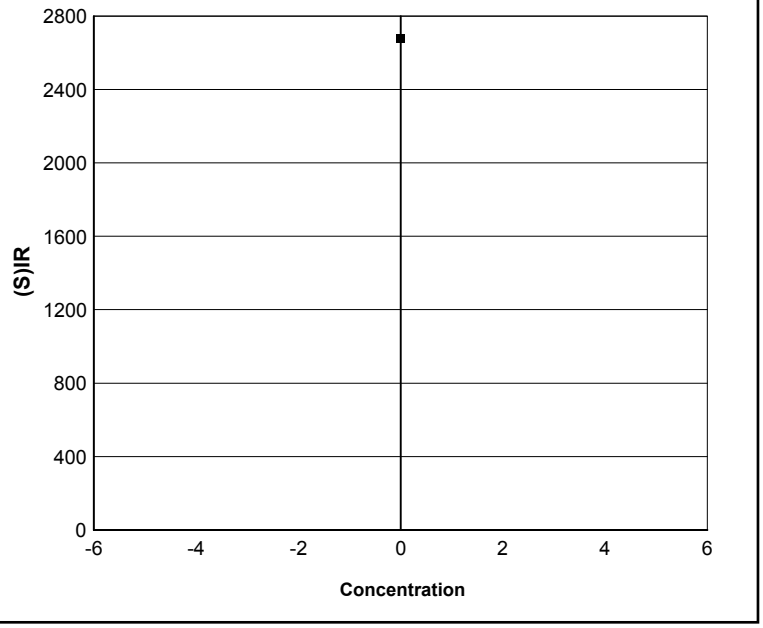
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000007449	0.0000007449	0.00000	-0.00023915	0.00011820	1
IC-4195955	0.020000	0.019215	-0.00078454	-3.9227	0.0017485	0.000010295	1
IC-4207542	0.50000	0.50120	0.0011986	0.23972	0.051680	0.00031363	1
IC-4207541	1.0000	0.99958	-0.00041514	-0.041514	0.10331	0.00036938	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:30AM
Date of Fit:	8/28/2017 11:16:30AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00034012
A1 (Gain):	0.51919
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

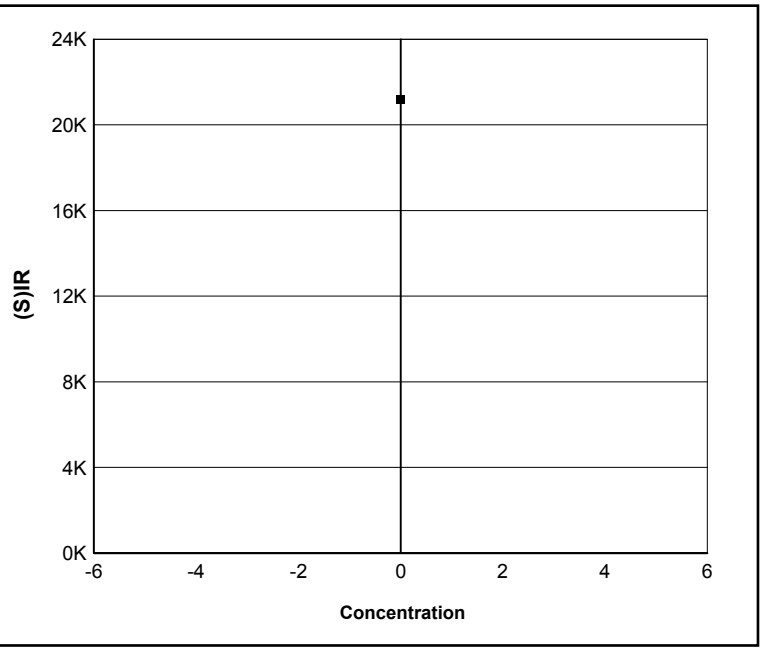
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002243	0.0000002243	0.00000	-0.00034001	0.00024020	1
IC-4195955	0.0050000	0.0047620	-0.00023798	-4.7596	0.0021058	0.00031409	1
IC-4207542	0.50000	0.50250	0.0025038	0.50076	0.25947	0.00010627	1
IC-4207541	1.0000	0.99773	-0.0022673	-0.22673	0.51551	0.0032135	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:05:56AM
Date of Fit:	8/28/2017 11:05:56AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

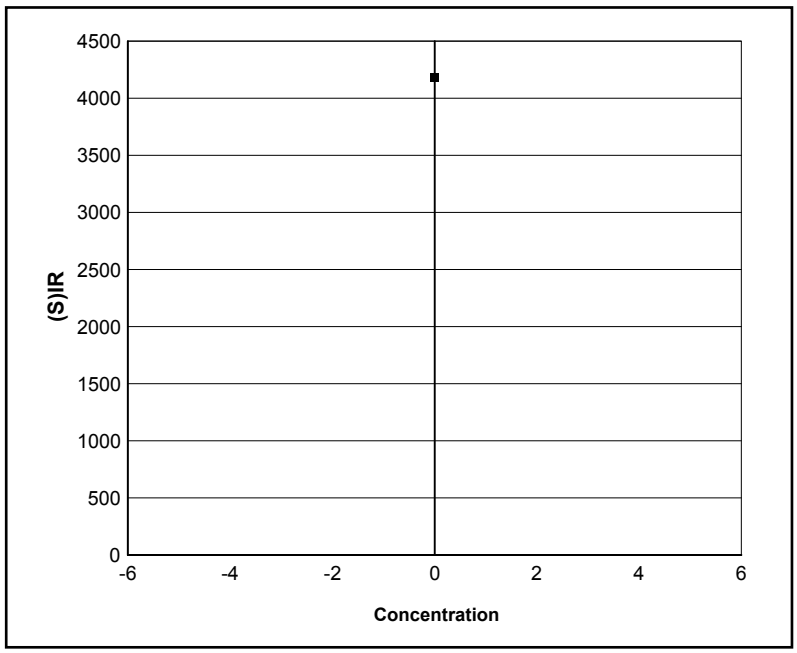
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	2,677	1.311	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:05:56AM
Date of Fit:	8/28/2017 11:05:56AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

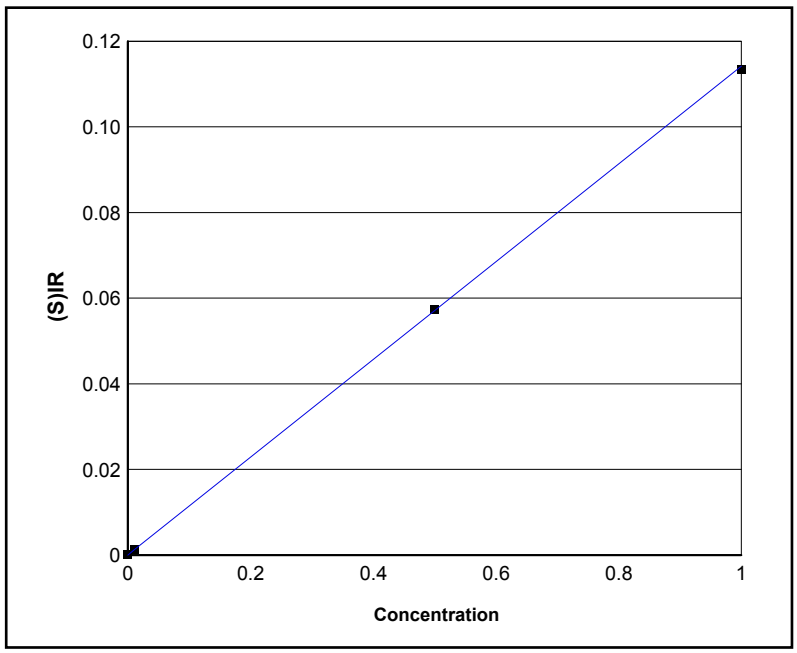
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	21,190	78.38	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:05:56AM
Date of Fit:	8/28/2017 11:05:56AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	4,187	7.990	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:30AM
Date of Fit:	8/28/2017 11:16:30AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.000014858
A1 (Gain):	0.11417
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000014844	-0.0000014844	0.00000	0.000014689	0.000056229	1
IC-4195955	0.010000	0.011457	0.0014571	14.571	0.0013221	0.0000067431	1
IC-4207542	0.50000	0.50418	0.0041827	0.83654	0.057475	0.00019728	1
IC-4207541	1.0000	0.99436	-0.0056414	-0.56414	0.11334	0.00089337	1

Sample Name: ICIS-4204839 Acquired: 8/28/2017 11:02:23 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00031**	**.00168**	**-.00007**	**.00160**	**.01426**
Stddev	.00019	.00075	.00018	.00009	.00071
%RSD	59.514	44.871	273.04	5.8524	4.9672
#1	-.00018	.00114	.00006	.00166	.01376
#2	-.00045	.00221	-.00019	.00153	.01476

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00878**	**.00139**	**.01003**	**.00099**	**.0015**
Stddev	.00009	.00012	.00087	.00002	.0006
%RSD	1.0675	8.8820	8.6574	2.2027	38.79
#1	.00885	.00130	.01064	.00101	.0011
#2	.00872	.00148	.00941	.00098	.0019

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00006**	**.00020**	**.00005**	**.00218**	**-.00021**
Stddev	.00004	.00016	.00031	.00031	.00091
%RSD	62.208	77.602	595.72	14.126	425.80
#1	-.00008	.00009	.00028	.00240	-.00086
#2	-.00003	.00031	-.00017	.00196	.00043

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00763**	**-.01043**	**.00013**	**.00085**	**.00021**
Stddev	.00166	.00027	.00013	.00004	.00005
%RSD	21.801	2.6214	100.88	4.5195	23.210
#1	-.00645	-.01062	.00004	.00088	.00017
#2	-.00881	-.01023	.00022	.00082	.00024

Sample Name: ICIS-4204839 Acquired: 8/28/2017 11:02:23 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00065**	**.00268**	**-.01325**	**-.00063**	**.00039**
Stddev	.00019	.00190	.00201	.00010	.00017
%RSD	28.856	70.754	15.199	15.476	44.430
#1	.00052	.00134	-.01182	-.00056	.00051
#2	.00079	.00403	-.01467	-.00069	.00027

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00008**	**.00036**	**-.00064**	**.00343**	**.00042**
Stddev	.00003	.00002	.00020	.00085	.00014
%RSD	34.928	6.1553	31.690	24.827	34.736
#1	-.00011	.00035	-.00078	.00283	.00052
#2	-.00006	.00038	-.00050	.00403	.00031

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00320**	**-.00076**	**-.00024**	**-.00034**	**.00001**
Stddev	.00072	.00001	.00012	.00024	.00006
%RSD	22.672	1.7838	49.426	70.646	382.81
#1	-.00371	-.00075	-.00016	-.00017	-.00003
#2	-.00268	-.00077	-.00032	-.00051	.00005

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4117.4**	**2677.2**	**21191.**	**4186.7**
Stddev	1.4	1.3	78.	8.0
%RSD	.03503	.04895	.36986	.19085
#1	4116.4	2678.1	21136.	4192.3
#2	4118.4	2676.3	21247.	4181.0

Sample Name: IC-4195955 Acquired: 8/28/2017 11:05:59 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00239**	**.01023**	**.00156**	**.01432**	**.02825**
Stddev	.00031	.00074	.00040	.00002	.00250
%RSD	13.174	7.1998	25.729	.16590	8.8357
#1	.00261	.00971	.00184	.01431	.03001
#2	.00217	.01075	.00127	.01434	.02648

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06120**	**.02180**	**.17102**	**.00828**	**.00540**
Stddev	.00003	.00162	.00079	.00005	.00019
%RSD	.04113	7.4125	.46398	.55277	3.4434
#1	.06122	.02066	.17158	.00825	.00553
#2	.06118	.02294	.17046	.00831	.00527

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00154**	**.00346**	**.01276**	**.00015**	**.03667**
Stddev	.00020	.00031	.00000	.00039	.00036
%RSD	13.311	9.0533	.03682	265.40	.98808
#1	.00139	.00368	.01276	-.00013	.03642
#2	.00168	.00324	.01276	.00043	.03693

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.05119**	**.00704**	**.00763**	**.00096**	**.01184**
Stddev	.00167	.00007	.00010	.00004	.00023
%RSD	3.2577	.97604	1.3621	4.6773	1.9807
#1	.05236	.00699	.00771	.00099	.01167
#2	.05001	.00708	.00756	.00092	.01200

Sample Name: IC-4195955 Acquired: 8/28/2017 11:05:59 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.33656**	**.00013**	**.00429**	**.00284**	**.01323**
Stddev	.00066	.00155	.00001	.00019	.00032
%RSD	.19685	1155.8	.14687	6.5839	2.3878
#1	.33703	.00123	.00428	.00297	.01345
#2	.33609	-.00096	.00429	.00271	.01300

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00465**	**.00200**	**.03683**	**.00289**	**.07799**
Stddev	.00011	.00009	.00009	.00007	.00062
%RSD	2.4588	4.5150	.25344	2.5890	.79926
#1	.00474	.00206	.03676	.00284	.07755
#2	.00457	.00193	.03689	.00295	.07843

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00217**	**.00175**	**.00211**	**.00132**
Stddev	.00016	.00001	.00031	.00001
%RSD	7.3863	.58876	14.916	.51003
#1	.00205	.00174	.00188	.00133
#2	.00228	.00176	.00233	.00132

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4086.5**	**2678.4**	**21310.**	**4236.6**
Stddev	1.4	1.9	52.	7.9
%RSD	.03431	.06985	.24345	.18545
#1	4087.5	2679.7	21346.	4242.1
#2	4085.6	2677.0	21273.	4231.0

Sample Name: IC-4207542 Acquired: 8/28/2017 11:09:40 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.21087**	**1.1360**	**.05371**	**.32470**	**3.8368**
Stddev	.00028	.0068	.00012	.00037	.0077
%RSD	.13239	.60074	.22218	.11430	.20177
#1	.21107	1.1312	.05380	.32497	3.8313
#2	.21068	1.1408	.05363	.32444	3.8423

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.683**	**5.1106**	**7.9888**	**1.6839**	**.0322**
Stddev	.033	.0240	.0311	.0010	.0004
%RSD	.26145	.47003	.38871	.05854	1.194
#1	12.659	5.0936	7.9668	1.6832	.0319
#2	12.706	5.1276	8.0108	1.6846	.0324

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.69468**	**.16383**	**.16468**	**5.6725**	**.34763**
Stddev	.00175	.00049	.00066	.0043	.00274
%RSD	.25146	.29625	.39983	.07666	.78915
#1	.69344	.16417	.16421	5.6694	.34570
#2	.69591	.16349	.16515	5.6755	.34957

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.0688**	**1.0293**	**.85115**	**1.1233**	**.12438**
Stddev	.0110	.0119	.00242	.0062	.00058
%RSD	.53002	1.1542	.28388	.55096	.46738
#1	2.0610	1.0209	.84944	1.1189	.12479
#2	2.0765	1.0377	.85286	1.1277	.12396

Sample Name: IC-4207542 Acquired: 8/28/2017 11:09:40 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.57021**	**8.3259**	**.26830**	**.25394**	**.12477**
Stddev	.00089	.0427	.00108	.00003	.00034
%RSD	.15689	.51242	.40361	.01057	.27048
#1	.57084	8.2957	.26754	.25392	.12501
#2	.56958	8.3560	.26907	.25396	.12454

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6561**	**.10774**	**.04516**	**1.6961**	**.13098**
Stddev	.0001	.00033	.00028	.0116	.00047
%RSD	.00508	.31001	.60974	.68104	.35548
#1	1.6561	.10797	.04535	1.6880	.13065
#2	1.6560	.10750	.04496	1.7043	.13131

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.0247**	**.28417**	**.05168**	**.25947**	**.05747**
Stddev	.0513	.00013	.00031	.00011	.00020
%RSD	.63888	.04619	.60687	.04096	.34325
#1	7.9885	.28408	.05146	.25955	.05761
#2	8.0610	.28426	.05190	.25940	.05734

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3652.4**	**2599.8**	**20332.**	**4213.4**
Stddev	3.7	.8	27.	34.3
%RSD	.10212	.03012	.13276	.81328
#1	3655.0	2600.3	20351.	4237.7
#2	3649.8	2599.2	20313.	4189.2

Sample Name: IC-4207541 Acquired: 8/28/2017 11:13:08 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.42297**	**2.2711**	**.10807**	**.64394**	**7.6673**
Stddev	.00192	.0146	.00005	.00001	.0142
%RSD	.45343	.64480	.04622	.00148	.18532
#1	.42162	2.2607	.10811	.64394	7.6573
#2	.42433	2.2814	.10804	.64395	7.6774

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**24.965**	**10.088**	**15.916**	**3.3660**	**.0610**
Stddev	.115	.008	.078	.0017	.0019
%RSD	.46013	.08303	.49086	.04941	3.187
#1	24.883	10.082	15.861	3.3649	.0596
#2	25.046	10.094	15.972	3.3672	.0623

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.4067**	**.32307**	**.32831**	**11.269**	**.68639**
Stddev	.0001	.00109	.00055	.035	.00393
%RSD	.00441	.33596	.16854	.30818	.57215
#1	1.4068	.32231	.32870	11.244	.68362
#2	1.4067	.32384	.32792	11.293	.68917

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.1342**	**2.0620**	**1.6825**	**2.2130**	**.24873**
Stddev	.0043	.0097	.0033	.0028	.00235
%RSD	.10438	.47198	.19880	.12725	.94428
#1	4.1312	2.0551	1.6802	2.2110	.25039
#2	4.1373	2.0689	1.6849	2.2150	.24707

Sample Name: IC-4207541 Acquired: 8/28/2017 11:13:08 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.1368**	**16.771**	**.54196**	**.51341**	**.25175**
Stddev	.0005	.063	.00146	.00029	.00025
%RSD	.04182	.37781	.26969	.05646	.10014
#1	1.1371	16.726	.54299	.51362	.25157
#2	1.1365	16.816	.54092	.51321	.25193

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.3350**	**.21498**	**.09142**	**3.3259**	**.26548**
Stddev	.0015	.00022	.00047	.0184	.00068
%RSD	.04504	.10266	.51453	.55375	.25601
#1	3.3361	.21482	.09109	3.3129	.26597
#2	3.3340	.21513	.09176	3.3389	.26500

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**16.162**	**.56692**	**.10331**	**.51551**	**.11334**
Stddev	.031	.00243	.00037	.00321	.00089
%RSD	.19305	.42820	.35755	.62337	.78826
#1	16.140	.56520	.10305	.51323	.11270
#2	16.184	.56864	.10357	.51778	.11397

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3464.5**	**2549.2**	**19921.**	**4170.3**
Stddev	7.1	7.5	18.	33.2
%RSD	.20490	.29539	.09280	.79602
#1	3469.5	2554.5	19908.	4193.8
#2	3459.4	2543.9	19934.	4146.9

Sample Name: ICV-4204840 Acquired: 8/28/2017 11:16:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37397**	**17.901**	**.36910**	**.37883**	**.37747**
Stddev	.00331	.142	.00164	.00037	.00002
%RSD	.88614	.79319	.44297	.09882	.00572
#1	.37163	18.002	.36795	.37909	.37745
#2	.37631	17.801	.37026	.37856	.37748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37650**	**18.554**	**.37448**	**-.0165**	**.36593**
Stddev	.00380	.153	.00016	.0066	.00001
%RSD	1.0100	.82208	.04268	39.97	.00231
#1	.37918	18.662	.37459	-.0212	.36592
#2	.37381	18.446	.37437	-.0119	.36593
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37694**	**.38055**	**18.402**	**18.751**	**.36790**
Stddev	.00324	.00081	.086	.072	.00141
%RSD	.85916	.21363	.46912	.38448	.38225
#1	.37465	.38113	18.463	18.802	.36890
#2	.37923	.37998	18.341	18.700	.36691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4204840 Acquired: 8/28/2017 11:16:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.914**	**.38558**	**.37244**	**18.564**	**.37245**
Stddev	.016	.00018	.00002	.127	.00014
%RSD	.08255	.04691	.00537	.68529	.03817
#1	18.903	.38545	.37243	18.654	.37235
#2	18.925	.38571	.37246	18.474	.37255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36897**	**18.681**	**.37223**	**.36867**	**18.286**
Stddev	.00140	.001	.00029	.00112	.215
%RSD	.38070	.00583	.07838	.30495	1.1735
#1	.36798	18.682	.37202	.36787	18.438
#2	.36996	18.681	.37243	.36946	18.134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38328**	**.36654**	**.37242**	**.37672**	**.37321**
Stddev	.00048	.00383	.00158	.00114	.00200
%RSD	.12533	1.0442	.42466	.30359	.53684
#1	.38362	.36925	.37130	.37752	.37179
#2	.38294	.36384	.37354	.37591	.37463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4204840 Acquired: 8/28/2017 11:16:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.37651
Stddev	.00083
%RSD	.22132
#1	.37592
#2	.37710
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3747.1	2636.3	20631.	4198.4
Stddev	5.2	4.0	32.	43.6
%RSD	.13814	.15079	.15381	1.0384
#1	3743.4	2633.5	20654.	4167.5
#2	3750.7	2639.1	20609.	4229.2

Sample Name: ICB-4204839 Acquired: 8/28/2017 11:19:57 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.01231**	**-.00082**	**.00079**	**-.00007**
Stddev	.00027	.00695	.00026	.00012	.00004
%RSD	118.68	56.490	31.412	15.202	52.668
#1	.00004	-.01723	-.00064	.00071	-.00010
#2	.00041	-.00739	-.00100	.00088	-.00005
Check ?	None	None	None	None	None
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00258**	**-.00016**	**.0145**	**.00007**
Stddev	.00001	.00035	.00005	.0038	.00005
%RSD	7.4766	13.631	30.073	26.41	61.967
#1	-.00012	.00233	-.00013	.0172	.00004
#2	-.00011	.00282	-.00020	.0118	.00011
Check ?	None	None	None	None	None
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00017**	**-.00382**	**.02016**	**-.00119**
Stddev	.00012	.00061	.00270	.02536	.00093
%RSD	42.209	352.62	70.557	125.80	77.802
#1	.00019	.00061	-.00573	.03809	-.00185
#2	.00036	-.00026	-.00191	.00223	-.00054
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICB-4204839 Acquired: 8/28/2017 11:19:57 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00001**	**-.00033**	**-.00540**	**.00000**
Stddev	.00653	.00009	.00007	.00047	.00022
%RSD	3800.2	600.75	21.258	8.6832	4746.0
#1	.00444	.00005	-.00028	-.00574	-.00015
#2	-.00479	-.00008	-.00038	-.00507	.00016
Check ?	None	None	None	None	None
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**-.00334**	**-.00012**	**.00157**	**-.00499**
Stddev	.00046	.00025	.00065	.00395	.00423
%RSD	56.235	7.4152	520.01	251.33	84.824
#1	-.00115	-.00351	-.00058	.00436	-.00798
#2	-.00050	-.00316	.00033	-.00122	-.00200
Check ?	None	None	None	None	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00000**	**.00044**	**-.00101**	**.00016**
Stddev	.00022	.00004	.00003	.00000	.00021
%RSD	125.89	1842.4	7.4810	.38958	128.68
#1	-.00034	-.00003	.00046	-.00102	.00001
#2	-.00002	.00003	.00041	-.00101	.00031
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICB-4204839 Acquired: 8/28/2017 11:19:57 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00053
Stddev	.00005
%RSD	9.5741
#1	.00056
#2	.00049
Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4132.4	2687.2	21355.	4234.7
Stddev	5.8	8.5	57.	3.0
%RSD	.14144	.31735	.26701	.07032
#1	4136.5	2693.2	21395.	4236.8
#2	4128.3	2681.2	21314.	4232.6

Sample Name: ICVL-4195955 Acquired: 8/28/2017 11:23:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00603**	**.17953**	**.01601**	**.02063**	**.00202**
Stddev	.00063	.00200	.00021	.00019	.00002
%RSD	10.434	1.1140	1.2840	.91901	1.2236
#1	.00558	.18094	.01615	.02049	.00203
#2	.00647	.17811	.01586	.02076	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.49900**	**.00198**	**-.0115**	**.00382**
Stddev	.00004	.00269	.00008	.0060	.00007
%RSD	1.7853	.53907	4.2115	52.36	1.7968
#1	.00205	.50091	.00204	-.0157	.00387
#2	.00211	.49710	.00192	-.0072	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.01081**	**.04213**	**.47855**	**.02753**
Stddev	.00021	.00091	.00000	.01380	.00029
%RSD	4.7316	8.4047	.01070	2.8846	1.0457
#1	.00463	.01016	.04213	.48831	.02732
#2	.00433	.01145	.04212	.46879	.02773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4195955 Acquired: 8/28/2017 11:23:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20188**	**.00303**	**.00973**	**.99494**	**.00979**
Stddev	.00529	.00001	.00028	.00429	.00011
%RSD	2.6201	.27089	2.8314	.43112	1.1473
#1	.20562	.00304	.00993	.99191	.00971
#2	.19814	.00302	.00954	.99797	.00987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00853**	**.19425**	**.02088**	**.02438**	**.50065**
Stddev	.00054	.00102	.00094	.00098	.00297
%RSD	6.3637	.52584	4.4855	4.0256	.59338
#1	.00892	.19353	.02154	.02368	.49855
#2	.00815	.19497	.02022	.02507	.50275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00943**	**.00493**	**.00498**	**.01912**	**.00486**
Stddev	.00024	.00008	.00072	.00073	.00037
%RSD	2.5029	1.5393	14.549	3.8105	7.6430
#1	.00960	.00487	.00549	.01860	.00460
#2	.00926	.00498	.00446	.01963	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4195955 Acquired: 8/28/2017 11:23:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01101
Stddev	.00043
%RSD	3.9222
#1	.01071
#2	.01132
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4103.5	2689.4	21345.	4228.0
Stddev	11.3	3.5	60.	25.4
%RSD	.27417	.12882	.28059	.60026
#1	4111.4	2691.9	21388.	4210.0
#2	4095.5	2687.0	21303.	4245.9

Sample Name: ICSA-4090634 Acquired: 8/28/2017 11:27:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00114**	**489.55**	**.00027**	**-.00175**	**.00060**
Stddev	.00091	.76	.00023	.00023	.00002
%RSD	79.912	.15478	84.791	13.394	3.4397
#1	-.00179	489.02	.00044	-.00192	.00058
#2	-.00050	490.09	.00011	-.00158	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**469.01**	**-.00039**	**.0262**	**-.00101**
Stddev	.00002	5.53	.00018	.0029	.00036
%RSD	11.284	1.1799	45.474	10.95	36.101
#1	-.00024	472.93	-.00026	.0242	-.00075
#2	-.00020	465.10	-.00051	.0283	-.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**-.00338**	**189.61**	**.00907**	**-.01407**
Stddev	.00081	.00053	.21	.06562	.00158
%RSD	97.897	15.805	.11074	723.74	11.231
#1	-.00026	-.00301	189.76	-.03733	-.01295
#2	-.00141	-.00376	189.46	.05547	-.01518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 8/28/2017 11:27:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**526.29**	**-.00023**	**-.00200**	**.03817**	**-.00222**
Stddev	.84	.00007	.00031	.00540	.00023
%RSD	.16031	28.726	15.324	14.160	10.388
#1	526.89	-.00028	-.00178	.03435	-.00238
#2	525.69	-.00019	-.00221	.04199	-.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00297**	**.03540**	**-.01012**	**-.00235**	**.01982**
Stddev	.00253	.00253	.00186	.00177	.00977
%RSD	85.351	7.1472	18.346	75.535	49.288
#1	-.00476	.03719	-.01144	-.00360	.02672
#2	-.00118	.03361	-.00881	-.00109	.01291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00311**	**.03118**	**-.00059**	**-.00373**	**.00161**
Stddev	.00121	.00007	.00078	.00109	.00022
%RSD	38.813	.22317	132.07	29.294	13.558
#1	.00396	.03113	-.00114	-.00296	.00145
#2	.00226	.03123	-.00004	-.00451	.00176
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 8/28/2017 11:27:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00663
Stddev	.00039
%RSD	5.8495
#1	.00690
#2	.00635
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2918.9	2356.1	18070.	4112.7
Stddev	.9	2.5	2.	8.2
%RSD	.02923	.10422	.01030	.19847
#1	2919.5	2357.8	18069.	4107.0
#2	2918.3	2354.3	18071.	4118.5

Sample Name: ICSAB-4167458 Acquired: 8/28/2017 11:30:52 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22894**	**525.33**	**.11040**	**.00240**	**.50442**
Stddev	.00438	.85	.00116	.00056	.00126
%RSD	1.9138	.16085	1.0504	23.288	.25017
#1	.23204	524.73	.11122	.00201	.50532
#2	.22584	525.92	.10958	.00280	.50353
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51840**	**485.64**	**1.0395**	**-.0007**	**.50177**
Stddev	.00054	1.69	.0004	.0074	.00012
%RSD	.10422	.34774	.04049	1049.	.02328
#1	.51801	484.45	1.0398	.0045	.50185
#2	.51878	486.84	1.0392	-.0059	.50169
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49231**	**.53559**	**97.866**	**.00973**	**.51157**
Stddev	.00581	.00025	.368	.00045	.00189
%RSD	1.1794	.04727	.37571	4.5956	.36923
#1	.49641	.53541	97.606	.00941	.51291
#2	.48820	.53577	98.126	.01004	.51024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-4167458 Acquired: 8/28/2017 11:30:52 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**543.44**	**.51135**	**-.00108**	**.16404**	**.99555**
Stddev	3.08	.00195	.00001	.00773	.00134
%RSD	.56758	.38232	.46818	4.7107	.13438
#1	545.62	.51273	-.00108	.15858	.99461
#2	541.26	.50996	-.00108	.16951	.99650
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04808**	**1.0714**	**.61366**	**.05236**	**1.0226**
Stddev	.00009	.0014	.00248	.00618	.0087
%RSD	.18383	.13061	.40419	11.812	.85419
#1	.04802	1.0724	.61191	.04798	1.0164
#2	.04815	1.0704	.61542	.05673	1.0288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00310**	**.49826**	**.00069**	**.09766**	**.51721**
Stddev	.00077	.00030	.00024	.00270	.00413
%RSD	24.947	.06013	35.388	2.7662	.79924
#1	.00255	.49805	.00086	.09957	.52013
#2	.00365	.49847	.00052	.09575	.51428
Check ?	None	None	None	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICSAB-4167458 Acquired: 8/28/2017 11:30:52 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.95297
Stddev	.01155
%RSD	1.2117
#1	.96114
#2	.94481
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2911.7	2337.3	17910.	4091.0
Stddev	3.2	4.0	139.	2.1
%RSD	.11135	.17097	.77492	.05211
#1	2909.4	2334.4	17812.	4089.5
#2	2914.0	2340.1	18008.	4092.5

Sample Name: ICEX1 Acquired: 8/28/2017 11:34:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.04412**	**5.0340**	**-.00031**	**-.00007**
Stddev	.00034	.00816	.0094	.00030	.00001
%RSD	47.805	18.485	.18607	97.374	13.302
#1	.00097	.04989	5.0406	-.00053	-.00007
#2	.00048	.03836	5.0274	-.00010	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.02752**	**-.00011**	**-.0055**	**.00014**
Stddev	.00011	.00221	.00041	.0038	.00004
%RSD	38.138	8.0395	382.11	69.08	26.429
#1	.00021	.02596	.00018	-.0081	.00017
#2	.00037	.02908	-.00040	-.0028	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**26.832**	**-.00125**	**.00945**	**-.00228**
Stddev	.00011	.021	.00001	.00116	.00019
%RSD	60.781	.07996	.66323	12.254	8.3473
#1	-.00026	26.848	-.00126	.01027	-.00241
#2	-.00011	26.817	-.00125	.00863	-.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/28/2017 11:34:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00350**	**.00084**	**-.00128**	**.02431**	**.00005**
Stddev	.00629	.00004	.00004	.00372	.00030
%RSD	179.56	5.2618	3.4659	15.282	554.20
#1	-.00795	.00081	-.00131	.02694	.00027
#2	.00094	.00087	-.00124	.02169	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.00477**	**.00040**	**.00129**	**.02017**
Stddev	.00000	.00122	.00087	.00050	.01032
%RSD	.03535	25.523	216.08	38.516	51.194
#1	-.00073	.00564	.00101	.00094	.02747
#2	-.00073	.00391	-.00021	.00164	.01287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00001**	**-.00027**	**.01009**	**5.1242**
Stddev	.00023	.00009	.00038	.00013	.0355
%RSD	256.45	1729.2	139.45	1.2847	.69213
#1	-.00007	-.00006	-.00000	.01000	5.1493
#2	.00025	.00007	-.00055	.01018	5.0992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/28/2017 11:34:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00400**
Stddev	.00032
%RSD	7.9791
#1	.00377
#2	.00422
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4050.9**	**2648.6**	**21254.**	**4165.7**
Stddev	3.7	.1	123.	24.7
%RSD	.09033	.00318	.57805	.59195
#1	4053.5	2648.6	21167.	4148.2
#2	4048.3	2648.7	21341.	4183.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.385%	98.933%	100.30%	99.498%
Range				

Sample Name: ICEX2 Acquired: 8/28/2017 11:38:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**.06821**	**.00349**	**.01059**	**-.00007**
Stddev	.00003	.00445	.00008	.00042	.00003
%RSD	2.4988	6.5268	2.2116	4.0137	41.491
#1	-.00115	.06506	.00355	.01089	-.00009
#2	-.00111	.07135	.00344	.01029	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.02172**	**.00025**	**-.0184**	**.00210**
Stddev	.00003	.00030	.00005	.0102	.00020
%RSD	7.4560	1.3718	20.812	55.48	9.5025
#1	-.00046	.02151	.00028	-.0256	.00196
#2	-.00041	.02193	.00021	-.0112	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00831**	**-.00276**	**-.01117**	**-.00182**
Stddev	.00020	.00122	.00008	.00698	.00123
%RSD	172.44	14.655	2.8919	62.492	67.470
#1	.00025	-.00917	-.00270	-.01611	-.00270
#2	-.00003	-.00745	-.00282	-.00624	-.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/28/2017 11:38:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01033**	**.00288**	**-.00039**	**.02455**	**.00457**
Stddev	.00403	.00002	.00003	.00468	.00004
%RSD	39.024	.61465	6.6047	19.064	.87671
#1	.01318	.00290	-.00041	.02124	.00454
#2	.00748	.00287	-.00038	.02786	.00459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00427**	**.00784**	**-.00122**	**.33870**
Stddev	.00046	.00051	.00065	.00319	.02316
%RSD	120.45	12.048	8.2905	261.12	6.8380
#1	.00071	.00391	.00738	-.00348	.32232
#2	.00006	.00463	.00830	.00103	.35508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00436**	**.00006**	**19.989**	**20.706**	**-.00350**
Stddev	.00010	.00006	.027	.037	.00033
%RSD	2.3909	103.54	.13577	.18086	9.4709
#1	-.00429	.00002	19.970	20.679	-.00373
#2	-.00444	.00010	20.008	20.732	-.00326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/28/2017 11:38:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00456**
Stddev	.00023
%RSD	5.1008
#1	.00472
#2	.00439
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4050.8**	**2672.6**	**21280.**	**4211.7**
Stddev	4.9	3.5	76.	4.9
%RSD	.12057	.13126	.35665	.11634
#1	4054.2	2675.1	21334.	4215.2
#2	4047.3	2670.1	21226.	4208.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.382%	99.828%	100.42%	100.60%
Range				

Sample Name: ICEX3 Acquired: 8/28/2017 11:41:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.02599**	**.00444**	**-.00054**	**-.00000**
Stddev	.00055	.01456	.00211	.00039	.00001
%RSD	60.223	56.019	47.627	72.085	258.87
#1	.00052	.01569	.00593	-.00082	.00000
#2	.00130	.03628	.00294	-.00027	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00962**	**-.00000**	**-.1871**	**-.00002**
Stddev	.00003	.00258	.00027	.0136	.00009
%RSD	18.629	26.786	7118.3	7.285	357.17
#1	-.00016	.00780	-.00019	-.1774	.00004
#2	-.00021	.01144	.00019	-.1967	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00136**	**.00037**	**.02501**	**-.00063**
Stddev	.00071	.00029	.00181	.01660	.00122
%RSD	4156.6	21.322	487.18	66.349	192.38
#1	-.00049	.00115	.00165	.01328	-.00149
#2	.00052	.00156	-.00091	.03675	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/28/2017 11:41:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.12223**	**51.393**	**-.00288**	**.01113**	**.00072**
Stddev	.00423	.009	.00026	.00823	.00001
%RSD	3.4613	.01734	9.1540	73.958	1.4548
#1	-.12522	51.386	-.00306	.00531	.00073
#2	-.11923	51.399	-.00269	.01695	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00467**	**101.75**	**-.00329**	**-.00931**	**-.00981**
Stddev	.00087	.02	.00016	.00482	.00008
%RSD	18.629	.02067	4.8767	51.748	.85497
#1	.00406	101.76	-.00341	-.00591	-.00975
#2	.00529	101.73	-.00318	-.01272	-.00987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00009**	**.00141**	**.00223**	**-.00049**
Stddev	.00028	.00006	.00009	.00092	.00004
%RSD	70.711	67.709	6.0219	40.980	7.2669
#1	-.00020	-.00014	.00135	.00288	-.00047
#2	-.00060	-.00005	.00147	.00159	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/28/2017 11:41:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00647
Stddev	.00007
%RSD	1.1319
#1	.00641
#2	.00652
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4027.9	2672.7	21203.	4235.3
Stddev	5.2	1.4	86.	18.5
%RSD	.12837	.05153	.40327	.43697
#1	4031.5	2673.7	21264.	4248.4
#2	4024.2	2671.7	21143.	4222.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.825%	99.831%	100.06%	101.16%
Range				

Sample Name: ICEX4 Acquired: 8/28/2017 11:49:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**-.07276**	**.00278**	**-.00241**	**-.00008**
Stddev	.00088	.00307	.00001	.00004	.00000
%RSD	183.40	4.2251	.30711	1.7335	4.3210
#1	-.00014	-.07493	.00277	-.00238	-.00008
#2	.00110	-.07058	.00278	-.00244	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00467**	**.00028**	**.0216**	**18.691**
Stddev	.00003	.00109	.00004	.0369	.010
%RSD	17.618	23.342	15.374	170.6	.05565
#1	-.00020	.00544	.00031	.0477	18.698
#2	-.00016	.00390	.00025	-.0045	18.683
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.473**	**.00738**	**-.00730**	**.00960**	**-.00012**
Stddev	.032	.00029	.00042	.02037	.00010
%RSD	.30761	3.9491	5.7209	212.26	84.914
#1	10.450	.00718	-.00760	.02400	-.00019
#2	10.496	.00759	-.00701	-.00481	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/28/2017 11:49:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01823**	**.00050**	**-.00010**	**-.00566**	**-.00431**
Stddev	.00181	.00005	.00016	.01589	.00045
%RSD	9.9383	9.9132	158.21	280.63	10.334
#1	-.01695	.00053	-.00021	-.01690	-.00400
#2	-.01951	.00046	.00001	.00557	-.00463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00258**	**.00696**	**.01444**	**.00021**	**-.05575**
Stddev	.00004	.00084	.00066	.00079	.01293
%RSD	1.6147	12.129	4.5574	367.67	23.194
#1	-.00255	.00636	.01491	.00077	-.06489
#2	-.00261	.00756	.01398	-.00034	-.04660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00005**	**-.00117**	**-.00145**	**-.00043**
Stddev	.00043	.00007	.00013	.00057	.00012
%RSD	309.13	138.94	10.805	39.247	29.243
#1	-.00044	-.00000	-.00126	-.00105	-.00052
#2	.00016	-.00011	-.00108	-.00185	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/28/2017 11:49:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00154
Stddev	.00069
%RSD	45.064
#1	.00203
#2	.00105
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4087.6	2653.6	21278.	4226.0
Stddev	5.7	6.1	65.	11.6
%RSD	.13844	.22965	.30516	.27487
#1	4091.6	2657.9	21324.	4217.8
#2	4083.6	2649.3	21232.	4234.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.275%	99.117%	100.41%	100.94%
Range				

Sample Name: ICEX5 Acquired: 8/28/2017 11:52:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.05939**	**.00912**	**.00916**	**-.00015**
Stddev	.00031	.01760	.00191	.00023	.00003
%RSD	179.71	29.639	20.952	2.4575	20.203
#1	.00039	.04694	.00777	.00932	-.00017
#2	-.00005	.07183	.01048	.00900	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.02124**	**-.00019**	**.0111**	**-.00045**
Stddev	.00009	.00227	.00008	.0217	.00019
%RSD	28.224	10.709	41.709	194.7	42.662
#1	-.00026	.01964	-.00013	.0265	-.00031
#2	-.00039	.02285	-.00024	-.0042	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.00235**	**-.00504**	**-.00030**	**-.00173**
Stddev	.00028	.00014	.00081	.00496	.00085
%RSD	41.054	6.0311	15.994	1627.8	49.462
#1	-.00048	-.00225	-.00447	.00320	-.00112
#2	-.00087	-.00245	-.00561	-.00381	-.00233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/28/2017 11:52:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.08311**	**.00113**	**5.1060**	**.02708**	**.00028**
Stddev	.00135	.00002	.0066	.00422	.00018
%RSD	1.6211	1.4548	.13015	15.579	65.515
#1	-.08216	.00112	5.1013	.02409	.00041
#2	-.08406	.00114	5.1107	.03006	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**-.01092**	**.00230**	**.00449**	**-.02402**
Stddev	.00024	.00013	.00050	.00284	.00444
%RSD	32.903	1.2024	21.569	63.210	18.485
#1	-.00088	-.01101	.00195	.00248	-.02716
#2	-.00055	-.01083	.00265	.00650	-.02088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00006**	**.00083**	**-.00159**	**-.00237**
Stddev	.00043	.00009	.00045	.00017	.00088
%RSD	146.32	150.90	53.884	10.777	37.206
#1	.00001	.00013	.00051	-.00171	-.00174
#2	-.00060	-.00000	.00114	-.00147	-.00299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/28/2017 11:52:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00312
Stddev	.00028
%RSD	8.9543
#1	.00332
#2	.00293
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4069.9	2663.9	21287.	4209.2
Stddev	1.5	1.3	52.	14.0
%RSD	.03568	.04999	.24433	.33273
#1	4070.9	2664.9	21323.	4219.1
#2	4068.9	2663.0	21250.	4199.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.847%	99.504%	100.45%	100.54%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 11:56:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50607**	**24.068**	**.49971**	**.50312**	**.49782**
Stddev	.00169	.019	.00219	.00026	.00303
%RSD	.33375	.08078	.43831	.05109	.60926
#1	.50726	24.082	.50126	.50330	.49568
#2	.50488	24.055	.49817	.50294	.49997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50091**	**24.726**	**.50151**	**-.0124**	**.49008**
Stddev	.00020	.009	.00044	.0555	.00022
%RSD	.04053	.03500	.08831	448.2	.04424
#1	.50105	24.720	.50182	.0269	.49024
#2	.50077	24.732	.50119	-.0516	.48993
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50928**	**.50609**	**24.358**	**24.822**	**.49276**
Stddev	.00001	.00225	.093	.060	.00109
%RSD	.00280	.44554	.38139	.24373	.22078
#1	.50929	.50769	24.424	24.865	.49199
#2	.50927	.50450	24.293	24.780	.49353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 11:56:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.067**	**.51183**	**.49730**	**24.826**	**.49774**
Stddev	.015	.00058	.00038	.061	.00111
%RSD	.06032	.11302	.07557	.24476	.22212
#1	25.078	.51142	.49756	24.869	.49696
#2	25.056	.51224	.49703	24.784	.49852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49470**	**25.098**	**.49666**	**.49551**	**24.050**
Stddev	.00023	.010	.00073	.00156	.044
%RSD	.04617	.03903	.14656	.31546	.18341
#1	.49454	25.091	.49718	.49662	24.081
#2	.49486	25.105	.49615	.49441	24.019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51106**	**.49389**	**.49715**	**.50174**	**.50242**
Stddev	.00111	.00010	.00074	.00515	.00031
%RSD	.21658	.02118	.14867	1.0266	.06087
#1	.51028	.49396	.49663	.50538	.50264
#2	.51184	.49381	.49768	.49810	.50220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 11:56:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50390
Stddev	.00048
%RSD	.09555
#1	.50424
#2	.50356
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3686.4	2613.9	20356.	4222.2
Stddev	.0	1.6	5.	13.3
%RSD	.00058	.06127	.02641	.31416
#1	3686.4	2612.8	20360.	4212.8
#2	3686.4	2615.1	20352.	4231.5

Sample Name: CCB-4204839 Acquired: 8/28/2017 11:59:45 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.01134**	**-.00025**	**-.00013**	**-.00012**
Stddev	.00081	.01390	.00157	.00000	.00000
%RSD	217.55	122.56	629.38	1.6725	1.6327
#1	.00020	-.02117	-.00136	-.00013	-.00011
#2	-.00095	-.00151	.00086	-.00013	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00330**	**-.00006**	**.0089**	**-.00001**
Stddev	.00012	.00115	.00008	.0270	.00022
%RSD	69.508	34.923	120.18	303.2	3337.7
#1	-.00026	-.00412	-.00001	.0280	.00015
#2	-.00009	-.00249	-.00012	-.0102	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**-.00022**	**-.00666**	**.03346**	**-.00122**
Stddev	.00032	.00078	.00133	.02547	.00079
%RSD	92.778	356.90	19.885	76.133	64.919
#1	-.00012	.00033	-.00760	.01545	-.00066
#2	-.00057	-.00077	-.00573	.05147	-.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 11:59:45 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00337**	**-.00001**	**-.00001**	**-.00660**	**-.00006**
Stddev	.00079	.00010	.00006	.00784	.00040
%RSD	23.529	826.18	631.44	118.72	678.30
#1	-.00281	.00006	.00003	-.00106	.00022
#2	-.00393	-.00008	-.00005	-.01215	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**-.00335**	**-.00118**	**.00263**	**-.00909**
Stddev	.00044	.00061	.00066	.00169	.01904
%RSD	53.901	18.199	55.759	64.117	209.51
#1	-.00050	-.00379	-.00071	.00144	-.02255
#2	-.00113	-.00292	-.00164	.00383	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**-.00003**	**-.00014**	**-.00092**	**.00003**
Stddev	.00006	.00003	.00007	.00018	.00004
%RSD	11.199	82.886	48.115	19.613	139.65
#1	-.00053	-.00001	-.00019	-.00079	.00006
#2	-.00062	-.00005	-.00009	-.00105	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 11:59:45 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00013
Stddev	.00047
%RSD	356.78
#1	-.00020
#2	.00047
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4121.4	2677.6	21315.	4190.1
Stddev	5.1	2.8	23.	13.7
%RSD	.12486	.10581	.10735	.32712
#1	4125.0	2679.6	21331.	4180.4
#2	4117.7	2675.6	21299.	4199.8

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:03:24 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00651**	**.19821**	**.01500**	**.02006**	**.00200**
Stddev	.00082	.02545	.00390	.00006	.00002
%RSD	12.622	12.839	26.005	.30840	.75703
#1	.00593	.21621	.01224	.02002	.00201
#2	.00709	.18022	.01776	.02011	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49831**	**.00197**	**-.0051**	**.00376**
Stddev	.00002	.00519	.00016	.0053	.00011
%RSD	1.1542	1.0417	8.1292	102.6	2.9818
#1	.00194	.49464	.00208	-.0014	.00368
#2	.00191	.50198	.00186	-.0089	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00356**	**.01036**	**.04187**	**.54801**	**.02851**
Stddev	.00006	.00123	.00252	.05816	.00141
%RSD	1.8044	11.900	6.0095	10.613	4.9513
#1	.00352	.00949	.04009	.50688	.02751
#2	.00361	.01124	.04365	.58913	.02951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:03:24 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20290**	**.00300**	**.00991**	**1.0054**	**.00994**
Stddev	.00208	.00011	.00018	.0126	.00033
%RSD	1.0262	3.8220	1.8432	1.2519	3.3691
#1	.20437	.00309	.00978	.99654	.00970
#2	.20143	.00292	.01004	1.0143	.01017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00956**	**.19234**	**.01968**	**.02697**	**.48921**
Stddev	.00023	.00023	.00157	.00153	.01341
%RSD	2.4093	.11947	7.9749	5.6807	2.7407
#1	.00940	.19217	.01857	.02806	.47973
#2	.00972	.19250	.02078	.02589	.49869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00899**	**.00494**	**.00450**	**.01850**	**.00519**
Stddev	.00016	.00007	.00003	.00070	.00025
%RSD	1.7549	1.5138	.56652	3.7870	4.8000
#1	.00888	.00489	.00448	.01801	.00536
#2	.00911	.00500	.00452	.01900	.00501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:03:24 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01052**
Stddev	.00029
%RSD	2.8022
#1	.01031
#2	.01073
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4099.2**	**2675.1**	**21277.**	**4198.5**
Stddev	7.4	3.2	25.	11.9
%RSD	.18168	.12017	.11750	.28463
#1	4104.5	2677.4	21260.	4207.0
#2	4093.9	2672.8	21295.	4190.1

Sample Name: MB 480-373710/1-A Acquired: 8/28/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.04663**	**.00071**	**.00089**	**.00005**
Stddev	.00037	.00332	.00028	.00008	.00001
%RSD	71.919	7.1226	39.634	8.5335	11.071
#1	.00025	.04898	.00051	.00084	.00006
#2	.00078	.04428	.00090	.00095	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.04675**	**-.00009**	**.0053**	**-.00010**
Stddev	.00003	.00018	.00007	.0113	.00012
%RSD	12.370	.37572	77.256	214.9	117.78
#1	-.00022	.04663	-.00004	.0133	-.00019
#2	-.00026	.04687	-.00014	-.0027	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.00011**	**.02449**	**.05735**	**.00021**
Stddev	.00007	.00077	.00268	.00728	.00076
%RSD	3.3433	707.37	10.930	12.700	355.15
#1	.00208	.00065	.02638	.06250	-.00032
#2	.00218	-.00043	.02260	.05220	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373710/1-A Acquired: 8/28/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00183**	**.00113**	**-.00017**	**.12021**	**.00049**
Stddev	.00269	.00009	.00005	.00134	.00018
%RSD	146.87	7.6205	29.488	1.1116	37.601
#1	-.00373	.00107	-.00020	.12115	.00062
#2	.00007	.00119	-.00013	.11926	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.06869**	**.00071**	**.00362**	**.26887**
Stddev	.00110	.00192	.00185	.00545	.02281
%RSD	1572.1	2.8022	260.35	150.49	8.4828
#1	-.00085	.07005	.00202	.00748	.28499
#2	.00071	.06733	-.00060	-.00023	.25274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04790**	**.00004**	**.00094**	**-.00247**	**.00060**
Stddev	.00025	.00005	.00015	.00016	.00013
%RSD	.51667	128.09	16.448	6.2906	22.292
#1	.04807	.00007	.00104	-.00258	.00050
#2	.04772	.00000	.00083	-.00236	.00069
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: MB 480-373710/1-A Acquired: 8/28/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00321
Stddev	.00006
%RSD	1.9802
#1	.00316
#2	.00325
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4106.6	2656.5	21425.	4277.1
Stddev	1.4	2.9	13.	6.8
%RSD	.03477	.10749	.05950	.15916
#1	4105.6	2654.5	21416.	4272.3
#2	4107.6	2658.6	21434.	4281.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.738%	99.228%	101.10%	102.16%
Range				

Sample Name: 123104-A-1-A@5 Acquired: 8/28/2017 12:10:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**9.2980**	**.00637**	**.05474**	**.02013**
Stddev	.00030	.0038	.00044	.00027	.00005
%RSD	107.79	.04071	6.8345	.50164	.24412
#1	-.00049	9.3006	.00667	.05455	.02017
#2	-.00007	9.2953	.00606	.05494	.02010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**312.26**	**.00060**	**.0694**	**.00384**
Stddev	.00009	.98	.00005	.0158	.00014
%RSD	22.572	.31544	8.6436	22.80	3.7369
#1	.00032	311.56	.00057	.0806	.00394
#2	.00044	312.95	.00064	.0582	.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01244**	**.00446**	**12.153**	**5.3294**	**.00907**
Stddev	.00059	.00040	.008	.1054	.00050
%RSD	4.7222	8.9973	.06952	1.9771	5.5000
#1	.01202	.00475	12.147	5.4039	.00871
#2	.01285	.00418	12.159	5.2549	.00942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-A@5 Acquired: 8/28/2017 12:10:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**192.35**	**.93993**	**-.00037**	**.63559**	**.00880**
Stddev	.27	.00307	.00018	.00136	.00028
%RSD	.13778	.32679	50.007	.21367	3.1828
#1	192.54	.94211	-.00049	.63655	.00860
#2	192.16	.93776	-.00024	.63463	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02805**	**6.5761**	**-.00173**	**-.00097**	**2.6875**
Stddev	.00041	.0014	.00127	.00063	.1213
%RSD	1.4660	.02157	73.002	64.661	4.5146
#1	.02776	6.5751	-.00084	-.00141	2.7733
#2	.02834	6.5771	-.00263	-.00053	2.6017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01147**	**.15458**	**.07827**	**-.00102**	**.01282**
Stddev	.00045	.00052	.00217	.00021	.00028
%RSD	3.9236	.33937	2.7762	20.756	2.1633
#1	.01115	.15421	.07673	-.00087	.01302
#2	.01179	.15495	.07980	-.00117	.01263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-A@5 Acquired: 8/28/2017 12:10:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07660
Stddev	.00113
%RSD	1.4762
#1	.07740
#2	.07580
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3276.5	2465.3	19393.	4181.5
Stddev	6.4	4.1	60.	9.8
%RSD	.19400	.16461	.30787	.23477
#1	3272.1	2462.5	19435.	4188.5
#2	3281.0	2468.2	19351.	4174.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.578%	92.086%	91.516%	99.877%
Range				

Sample Name: 123104-A-1-Asd@25 Acquired: 8/28/2017 12:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**1.8709**	**.00050**	**.01095**	**.00400**
Stddev	.00040	.0172	.00056	.00019	.00001
%RSD	168.77	.91956	112.51	1.7362	.15747
#1	-.00005	1.8588	.00089	.01082	.00400
#2	.00053	1.8831	.00010	.01109	.00401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**63.378**	**.00008**	**.0223**	**.00075**
Stddev	.00005	.009	.00016	.0120	.00014
%RSD	133.44	.01449	184.96	53.95	18.644
#1	-.00007	63.371	-.00003	.0138	.00065
#2	-.00000	63.384	.00020	.0308	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00223**	**.00029**	**2.4840**	**1.0256**	**.00042**
Stddev	.00074	.00060	.0083	.0275	.00166
%RSD	33.113	203.78	.33395	2.6794	390.20
#1	.00171	.00072	2.4782	1.0061	.00160
#2	.00276	-.00013	2.4899	1.0450	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-Asd@25 Acquired: 8/28/2017 12:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.145**	**.19164**	**-.00027**	**.11678**	**.00115**
Stddev	.034	.00023	.00022	.00148	.00019
%RSD	.09175	.11858	79.892	1.2637	16.902
#1	37.121	.19147	-.00042	.11783	.00101
#2	37.169	.19180	-.00012	.11574	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00376**	**1.2666**	**-.00125**	**.00128**	**.51412**
Stddev	.00173	.0079	.00135	.00325	.01472
%RSD	46.144	.62195	108.29	254.00	2.8640
#1	.00253	1.2610	-.00221	-.00102	.52453
#2	.00498	1.2721	-.00029	.00358	.50371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00234**	**.03124**	**.01576**	**-.00053**	**.00284**
Stddev	.00043	.00009	.00084	.00266	.00023
%RSD	18.381	.28739	5.3469	502.98	8.2397
#1	.00204	.03131	.01517	.00135	.00300
#2	.00265	.03118	.01636	-.00241	.00267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-Asd@25 Acquired: 8/28/2017 12:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01628**
Stddev	.00091
%RSD	5.5895
#1	.01564
#2	.01692
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3737.4**	**2590.3**	**20465.**	**4220.9**
Stddev	2.5	.5	24.	10.0
%RSD	.06788	.01831	.11589	.23790
#1	3735.6	2589.9	20448.	4228.0
#2	3739.2	2590.6	20482.	4213.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.771%	96.752%	96.574%	100.82%
Range				

Sample Name: 123104-A-1-Apds@5 Acquired: 8/28/2017 12:17:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04945**	**19.113**	**.20210**	**.25287**	**.21444**
Stddev	.00063	.023	.00193	.00032	.00087
%RSD	1.2737	.11852	.95296	.12748	.40538
#1	.04989	19.097	.20073	.25309	.21505
#2	.04900	19.129	.20346	.25264	.21383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19546**	**303.90**	**.20212**	**.0079**	**.19453**
Stddev	.00094	.04	.00016	.0069	.00035
%RSD	.48163	.01180	.08032	87.70	.18160
#1	.19613	303.87	.20200	.0128	.19478
#2	.19480	303.92	.20223	.0030	.19428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20490**	**.20093**	**21.094**	**15.003**	**.20962**
Stddev	.00116	.00000	.048	.041	.00125
%RSD	.56812	.00247	.22582	.27568	.59716
#1	.20408	.20093	21.127	15.032	.20873
#2	.20572	.20092	21.060	14.974	.21050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-Apds@5 Acquired: 8/28/2017 12:17:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**190.84**	**1.0775**	**.18993**	**10.497**	**.20131**
Stddev	.77	.0026	.00041	.043	.00118
%RSD	.40340	.24141	.21342	.41318	.58786
#1	191.38	1.0793	.19022	10.528	.20215
#2	190.29	1.0757	.18965	10.466	.20047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22781**	**6.2285**	**.20005**	**.19560**	**13.583**
Stddev	.00075	.0039	.00045	.00092	.082
%RSD	.33132	.06298	.22421	.47092	.60204
#1	.22835	6.2313	.19974	.19495	13.641
#2	.22728	6.2257	.20037	.19625	13.525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22128**	**.34257**	**.28636**	**.19466**	**.21135**
Stddev	.00028	.00058	.00969	.00077	.00131
%RSD	.12560	.17006	3.3847	.39446	.62190
#1	.22108	.34298	.29322	.19521	.21228
#2	.22147	.34216	.27951	.19412	.21042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-Apds@5 Acquired: 8/28/2017 12:17:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.26173**
Stddev	.00047
%RSD	.17823
#1	.26140
#2	.26206
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3227.2**	**2451.2**	**19179.**	**4112.5**
Stddev	5.7	5.5	8.	3.9
%RSD	.17773	.22280	.04107	.09540
#1	3231.2	2455.1	19173.	4109.7
#2	3223.1	2447.3	19185.	4115.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.378%	91.559%	90.505%	98.228%
Range				

Sample Name: 123104-A-1-B MS@5 Acquired: 8/28/2017 12:21:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02386**	**34.194**	**.10863**	**.24202**	**.16358**
Stddev	.00048	.098	.00592	.00372	.00111
%RSD	2.0144	.28578	5.4519	1.5391	.67822
#1	.02352	34.125	.10444	.23938	.16280
#2	.02420	34.263	.11282	.24465	.16437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09376**	**302.22**	**.10116**	**.0651**	**.10253**
Stddev	.00012	.94	.00161	.0169	.00190
%RSD	.12932	.31096	1.5866	26.00	1.8564
#1	.09367	302.88	.10003	.0770	.10118
#2	.09385	301.55	.10230	.0531	.10387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12018**	**.10214**	**20.662**	**19.003**	**.12077**
Stddev	.00093	.00005	.075	.091	.00255
%RSD	.77694	.05102	.36265	.47716	2.1099
#1	.11952	.10218	20.609	18.938	.11897
#2	.12084	.10210	20.715	19.067	.12257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-B MS@5 Acquired: 8/28/2017 12:21:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**189.45**	**1.0197**	**.09625**	**5.5611**	**.11297**
Stddev	.65	.0009	.00178	.0174	.00180
%RSD	.34547	.08962	1.8540	.31345	1.5930
#1	188.99	1.0191	.09499	5.5487	.11170
#2	189.92	1.0204	.09751	5.5734	.11424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13174**	**13.385**	**.07414**	**.09694**	**2.1508**
Stddev	.00305	.253	.00016	.00106	.0036
%RSD	2.3143	1.8919	.21973	1.0973	.16634
#1	.12959	13.206	.07402	.09619	2.1533
#2	.13390	13.564	.07426	.09769	2.1483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10707**	**.26452**	**.19714**	**.09447**	**.12900**
Stddev	.00239	.00077	.00740	.00045	.00004
%RSD	2.2359	.29022	3.7536	.47446	.03316
#1	.10538	.26398	.20237	.09416	.12897
#2	.10876	.26506	.19191	.09479	.12903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-B MS@5 Acquired: 8/28/2017 12:21:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.19380
Stddev	.00019
%RSD	.09784
#1	.19366
#2	.19393
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3223.8	2477.5	19385.	4175.7
Stddev	10.7	4.4	39.	3.8
%RSD	.33294	.17885	.20298	.09080
#1	3231.4	2480.6	19357.	4173.0
#2	3216.2	2474.4	19412.	4178.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.297%	92.540%	91.474%	99.738%
Range				

Sample Name: 123104-A-1-C MSD@5 Acquired: 8/28/2017 12:25:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02311	30.197	.10040	.21221	.15545
Stddev	.00065	.024	.00065	.00241	.00021
%RSD	2.8127	.08036	.64962	1.1370	.13725
#1	.02265	30.214	.09994	.21051	.15530
#2	.02357	30.180	.10086	.21392	.15560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08835	335.11	.09404	.0670	.09427
Stddev	.00031	2.76	.00100	.0071	.00111
%RSD	.34633	.82421	1.0679	10.54	1.1794
#1	.08813	333.15	.09333	.0620	.09349
#2	.08857	337.06	.09475	.0720	.09506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11467	.09355	19.258	16.937	.11302
Stddev	.00060	.00068	.041	.079	.00159
%RSD	.52590	.72244	.21070	.46624	1.4045
#1	.11424	.09403	19.230	16.881	.11414
#2	.11509	.09307	19.287	16.992	.11190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-C MSD@5 Acquired: 8/28/2017 12:25:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**210.67**	**1.0291**	**.08926**	**5.3437**	**.10265**
Stddev	.47	.0022	.00134	.0095	.00188
%RSD	.22495	.20879	1.5006	.17833	1.8348
#1	210.33	1.0276	.08831	5.3505	.10132
#2	211.00	1.0306	.09021	5.3370	.10398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12831**	**12.680**	**.07261**	**.08985**	**2.4767**
Stddev	.00264	.133	.00304	.00224	.0106
%RSD	2.0597	1.0474	4.1810	2.4942	.42730
#1	.12645	12.586	.07047	.08827	2.4692
#2	.13018	12.774	.07476	.09144	2.4842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10056**	**.26316**	**.22394**	**.08893**	**.12194**
Stddev	.00153	.00016	.00462	.00291	.00040
%RSD	1.5252	.06147	2.0626	3.2767	.32990
#1	.09948	.26328	.22067	.08687	.12165
#2	.10165	.26305	.22720	.09099	.12222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-C MSD@5 Acquired: 8/28/2017 12:25:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.15043**
Stddev	.00055
%RSD	.36781
#1	.15004
#2	.15083
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3201.7**	**2465.8**	**19296.**	**4161.7**
Stddev	1.3	.8	7.	8.6
%RSD	.03985	.03399	.03383	.20727
#1	3202.6	2466.4	19301.	4167.8
#2	3200.8	2465.2	19291.	4155.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.760%	92.103%	91.057%	99.404%
Range				

Sample Name: 480-123126-A-1-A@10 Acquired: 8/28/2017 12:28:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00667**	**23.914**	**.06319**	**.00714**	**.02176**
Stddev	.00085	.179	.00035	.00012	.00009
%RSD	12.673	.74894	.55741	1.6145	.42637
#1	.00727	23.787	.06294	.00722	.02169
#2	.00608	24.040	.06343	.00706	.02183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**1.5979**	**.07564**	**-.0110**	**.02393**
Stddev	.00003	.0046	.00094	.0261	.00011
%RSD	117.16	.28680	1.2481	238.4	.47279
#1	-.00004	1.5946	.07497	-.0294	.02385
#2	-.00000	1.6011	.07631	.0075	.02401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00332**	**.08544**	**1.7920**	**.28860**	**-.00157**
Stddev	.00051	.00083	.0052	.01184	.00053
%RSD	15.437	.97704	.29240	4.1022	34.008
#1	.00296	.08485	1.7957	.28023	-.00195
#2	.00369	.08603	1.7883	.29697	-.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123126-A-1-A@10 Acquired: 8/28/2017 12:28:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91688**	**.02068**	**.00065**	**.08928**	**.00438**
Stddev	.00668	.00004	.00002	.01673	.00010
%RSD	.72871	.19904	3.5898	18.741	2.2577
#1	.91216	.02065	.00067	.10112	.00431
#2	.92161	.02071	.00063	.07745	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.548**	**2.3264**	**7.1327**	**.00008**	**.32298**
Stddev	.609	.0279	.0833	.00256	.00229
%RSD	1.1810	1.1982	1.1675	3256.8	.71013
#1	51.118	2.3067	7.0738	.00189	.32136
#2	51.979	2.3462	7.1916	-.00173	.32461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10735**	**.00595**	**.02282**	**-.00131**	**.00664**
Stddev	.00075	.00006	.00018	.00035	.00004
%RSD	.69422	.98841	.80626	26.510	.55096
#1	.10683	.00591	.02269	-.00156	.00661
#2	.10788	.00599	.02295	-.00107	.00666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123126-A-1-A@10 Acquired: 8/28/2017 12:28:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **23.460**
Stddev	.019
%RSD	.08194
#1	23.447
#2	23.474
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3924.6**	**2670.8**	**21108.**	**4233.0**
Stddev	1.6	.3	88.	4.1
%RSD	.04159	.01290	.41731	.09636
#1	3925.8	2671.0	21046.	4230.1
#2	3923.5	2670.5	21170.	4235.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.318%	99.760%	99.608%	101.11%
Range				

Sample Name: 480-123126-A-2-A@10 Acquired: 8/28/2017 12:32:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00459**	**19.437**	**.07579**	**.00304**	**.02210**
Stddev	.00080	.095	.00213	.00040	.00013
%RSD	17.522	.48621	2.8087	13.077	.57778
#1	.00402	19.370	.07429	.00333	.02201
#2	.00516	19.504	.07730	.00276	.02219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.64537**	**.26161**	**.0086**	**.02914**
Stddev	.00009	.00014	.00457	.0104	.00022
%RSD	254.95	.02199	1.7472	121.6	.76798
#1	.00003	.64527	.25838	.0012	.02898
#2	-.00010	.64547	.26484	.0159	.02930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00903**	**.16172**	**16.283**	**.11657**	**-.00098**
Stddev	.00005	.00089	.148	.01240	.00070
%RSD	.60577	.55141	.91132	10.640	71.651
#1	.00900	.16109	16.178	.12534	-.00048
#2	.00907	.16235	16.388	.10780	-.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123126-A-2-A@10 Acquired: 8/28/2017 12:32:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41614**	**.02398**	**.00272**	**.09493**	**.01143**
Stddev	.00322	.00007	.00003	.00090	.00001
%RSD	.77498	.30212	1.0698	.94653	.06221
#1	.41386	.02393	.00274	.09557	.01144
#2	.41842	.02403	.00269	.09430	.01143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.865**	**4.1838**	**5.4891**	**.00112**	**.35878**
Stddev	.866	.0727	.0868	.00298	.00025
%RSD	1.6689	1.7379	1.5818	266.71	.07063
#1	51.253	4.1324	5.4277	.00323	.35896
#2	52.477	4.2352	5.5505	-.00099	.35860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12160**	**.00600**	**.02611**	**-.00189**	**.01660**
Stddev	.00227	.00007	.00171	.00214	.00018
%RSD	1.8668	1.2051	6.5523	113.34	1.0580
#1	.12000	.00595	.02490	-.00038	.01672
#2	.12321	.00605	.02732	-.00341	.01647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123126-A-2-A@10 Acquired: 8/28/2017 12:32:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **68.806**
Stddev	.095
%RSD	.13781
#1	68.739
#2	68.874
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3898.8**	**2642.1**	**20933.**	**4215.1**
Stddev	6.0	3.5	82.	6.6
%RSD	.15497	.13364	.39323	.15709
#1	3894.6	2639.6	20874.	4219.8
#2	3903.1	2644.6	20991.	4210.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.691%	98.687%	98.780%	100.68%
Range				

Sample Name: 480-123118-A-1-A@50 Acquired: 8/28/2017 12:35:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00093	2.4184	.00381	.00217	.03802
Stddev	.00070	.0492	.00336	.00002	.00002
%RSD	75.211	2.0357	87.956	1.1072	.04606
#1	.00043	2.3836	.00144	.00216	.03801
#2	.00142	2.4532	.00619	.00219	.03803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.96396	.00040	.0304	.00212
Stddev	.00010	.00294	.00011	.0056	.00003
%RSD	174.21	.30490	26.304	18.50	1.3090
#1	.00013	.96188	.00048	.0264	.00210
#2	-.00001	.96604	.00033	.0344	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01418	5.5585	5.9888	.27538	.00517
Stddev	.00015	.0128	.0157	.07660	.00010
%RSD	1.0802	.22969	.26286	27.815	1.8774
#1	.01428	5.5495	5.9777	.22122	.00524
#2	.01407	5.5676	5.9999	.32954	.00511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123118-A-1-A@50 Acquired: 8/28/2017 12:35:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11399**	**.04048**	**.00089**	**.27396**	**.37861**
Stddev	.00165	.00019	.00019	.00120	.00129
%RSD	1.4489	.46942	21.136	.43721	.34174
#1	.11282	.04062	.00076	.27311	.37952
#2	.11515	.04035	.00102	.27480	.37769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02708**	**4.0133**	**.00943**	**.00456**	**.05504**
Stddev	.00055	.0013	.00042	.00069	.00300
%RSD	2.0218	.03147	4.4782	15.055	5.4567
#1	.02747	4.0142	.00913	.00504	.05291
#2	.02670	4.0124	.00973	.00407	.05716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00294**	**.02996**	**.05739**	**-.00054**	**.00801**
Stddev	.00026	.00029	.00221	.00042	.00054
%RSD	8.9857	.96396	3.8521	76.678	6.7855
#1	.00313	.02976	.05895	-.00084	.00839
#2	.00276	.03017	.05582	-.00025	.00762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123118-A-1-A@50 Acquired: 8/28/2017 12:35:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.7528**
Stddev	.0004
%RSD	.01571
#1	2.7525
#2	2.7531
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4023.1**	**2648.5**	**21122.**	**4166.6**
Stddev	7.1	6.7	22.	1.0
%RSD	.17617	.25462	.10515	.02499
#1	4028.1	2653.3	21137.	4165.8
#2	4018.1	2643.7	21106.	4167.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.709%	98.928%	99.672%	99.520%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 12:39:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50820**	**24.190**	**.50088**	**.50407**	**.49055**
Stddev	.00022	.098	.00133	.00000	.00055
%RSD	.04336	.40517	.26487	.00033	.11305
#1	.50836	24.260	.50182	.50407	.49016
#2	.50804	24.121	.49994	.50407	.49094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50385**	**24.824**	**.50003**	**-.0004**	**.49028**
Stddev	.00194	.114	.00017	.0100	.00090
%RSD	.38515	.45811	.03436	2265.	.18288
#1	.50522	24.904	.50016	-.0075	.49092
#2	.50248	24.743	.49991	.0066	.48965
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50983**	**.49913**	**24.404**	**24.891**	**.49574**
Stddev	.00094	.00437	.104	.049	.00155
%RSD	.18420	.87604	.42522	.19679	.31244
#1	.50917	.50222	24.478	24.925	.49684
#2	.51050	.49604	24.331	24.856	.49465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 12:39:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.969**	**.50881**	**.49911**	**24.899**	**.49741**
Stddev	.098	.00203	.00187	.123	.00114
%RSD	.39252	.39950	.37490	.49463	.22973
#1	25.039	.51025	.49779	24.986	.49822
#2	24.900	.50738	.50043	24.812	.49660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49355**	**25.220**	**.50154**	**.50022**	**24.217**
Stddev	.00015	.035	.00049	.00317	.132
%RSD	.02960	.13797	.09755	.63449	.54456
#1	.49365	25.196	.50119	.49798	24.310
#2	.49344	25.245	.50189	.50247	24.123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51181**	**.49841**	**.49997**	**.50363**	**.50495**
Stddev	.00105	.00180	.00039	.00069	.00061
%RSD	.20484	.36068	.07858	.13778	.12112
#1	.51255	.49968	.50025	.50314	.50452
#2	.51107	.49714	.49969	.50412	.50538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 12:39:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50525**
Stddev	.00004
%RSD	.00740
#1	.50522
#2	.50527
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3676.2**	**2607.8**	**20482.**	**4194.2**
Stddev	2.2	1.8	22.	19.2
%RSD	.06094	.06831	.10923	.45873
#1	3674.6	2609.1	20466.	4180.6
#2	3677.8	2606.6	20498.	4207.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 12:42:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00075**	**-.00030**	**-.00008**	**-.00013**
Stddev	.00053	.02198	.00093	.00001	.00001
%RSD	327.06	2950.7	314.15	15.649	9.0858
#1	.00021	.01480	.00036	-.00009	-.00012
#2	-.00054	-.01629	-.00096	-.00007	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00558**	**-.00028**	**.0006**	**-.00012**
Stddev	.00004	.00351	.00011	.0025	.00018
%RSD	17.608	62.863	38.789	432.3	144.90
#1	-.00019	-.00807	-.00036	.0023	-.00025
#2	-.00025	-.00310	-.00021	-.0012	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00030**	**-.00761**	**.06185**	**-.00180**
Stddev	.00038	.00022	.00088	.00808	.00114
%RSD	808.55	73.257	11.634	13.062	63.442
#1	-.00031	-.00045	-.00823	.06757	-.00261
#2	.00022	-.00014	-.00698	.05614	-.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 12:42:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00456**	**-.00012**	**-.00015**	**-.01209**	**.00014**
Stddev	.00616	.00002	.00014	.00709	.00056
%RSD	135.17	15.814	96.222	58.626	394.28
#1	-.00892	-.00013	-.00025	-.00708	-.00025
#2	-.00020	-.00011	-.00005	-.01710	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00576**	**.00093**	**.00244**	**-.00913**
Stddev	.00185	.00200	.00068	.00300	.00143
%RSD	990.02	34.627	72.745	122.80	15.710
#1	.00112	-.00435	.00045	.00032	-.00811
#2	-.00149	-.00718	.00141	.00456	-.01014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00005**	**-.00053**	**-.00166**	**.00004**
Stddev	.00003	.00002	.00034	.00168	.00004
%RSD	37.343	43.208	65.511	101.20	97.051
#1	-.00011	-.00006	-.00028	-.00047	.00001
#2	-.00006	-.00003	-.00077	-.00285	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 12:42:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00009
Stddev	.00006
%RSD	64.296
#1	.00005
#2	.00013
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4104.2	2662.1	21268.	4211.6
Stddev	.8	3.4	142.	54.2
%RSD	.02064	.12741	.66951	1.2875
#1	4104.8	2664.5	21368.	4250.0
#2	4103.6	2659.7	21167.	4173.3

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:46:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00703**	**.20107**	**.01558**	**.02018**	**.00199**
Stddev	.00067	.00382	.00186	.00021	.00002
%RSD	9.5183	1.9009	11.926	1.0412	1.2146
#1	.00655	.20377	.01426	.02033	.00200
#2	.00750	.19837	.01689	.02003	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.50278**	**.00205**	**.0066**	**.00389**
Stddev	.00010	.00606	.00011	.0170	.00001
%RSD	5.3019	1.2059	5.3688	258.5	.20179
#1	.00200	.50707	.00213	-.0054	.00389
#2	.00185	.49850	.00197	.0186	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	**.01053**	**.04406**	**.50749**	**.02951**
Stddev	.00006	.00032	.00187	.02874	.00187
%RSD	1.4221	3.0393	4.2362	5.6635	6.3347
#1	.00430	.01076	.04274	.52781	.02818
#2	.00421	.01030	.04538	.48716	.03083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:46:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20215**	**.00310**	**.01001**	**1.0018**	**.00934**
Stddev	.00129	.00008	.00002	.0004	.00001
%RSD	.63622	2.4183	.21997	.04354	.05659
#1	.20306	.00316	.01003	1.0015	.00933
#2	.20124	.00305	.01000	1.0021	.00934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00908**	**.19343**	**.02177**	**.02866**	**.51010**
Stddev	.00083	.00083	.00122	.00393	.00757
%RSD	9.0987	.42912	5.6128	13.728	1.4849
#1	.00966	.19284	.02263	.03144	.50474
#2	.00849	.19402	.02091	.02588	.51545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00914**	**.00497**	**.00474**	**.01887**	**.00558**
Stddev	.00062	.00009	.00002	.00186	.00027
%RSD	6.7592	1.8692	.34771	9.8560	4.8030
#1	.00871	.00490	.00473	.01756	.00539
#2	.00958	.00503	.00475	.02019	.00577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:46:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01141
Stddev	.00038
%RSD	3.3249
#1	.01168
#2	.01114
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4078.7	2663.9	21249.	4232.4
Stddev	2.9	1.0	89.	37.1
%RSD	.07052	.03759	.41724	.87629
#1	4076.7	2663.2	21187.	4258.6
#2	4080.8	2664.6	21312.	4206.1

Sample Name: LB2 480-373744/1-B Acquired: 8/28/2017 12:49:59 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.02429**	**.01287**	**.02570**	**.00194**
Stddev	.00012	.00662	.00053	.00037	.00005
%RSD	24.442	27.234	4.1314	1.4326	2.4213
#1	-.00056	.01961	.01325	.02596	.00197
#2	-.00039	.02897	.01250	.02544	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.20330**	**-.00005**	**.0018**	**-.00002**
Stddev	.00004	.00350	.00007	.0330	.00020
%RSD	18.515	1.7194	131.57	1828.	973.69
#1	-.00022	.20083	-.00010	.0251	.00012
#2	-.00017	.20577	-.00000	-.0215	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00208**	**.07854**	**.03439**	**-.00044**
Stddev	.00027	.00048	.00429	.01618	.00017
%RSD	1163.9	22.966	5.4621	47.064	39.263
#1	-.00017	.00174	.08158	.04583	-.00032
#2	.00022	.00242	.07551	.02294	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB2 480-373744/1-B Acquired: 8/28/2017 12:49:59 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03851**	**.00567**	**-.00011**	F **12.194**	**.00039**
Stddev	.00063	.00005	.00001	.006	.00016
%RSD	1.6415	.85123	5.5576	.04959	41.283
#1	.03895	.00571	-.00012	12.190	.00050
#2	.03806	.00564	-.00011	12.199	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.02176**	**.00089**	**.00714**	**.03289**
Stddev	.00041	.00152	.00114	.00103	.00214
%RSD	245.13	7.0062	128.31	14.419	6.4926
#1	.00012	.02068	.00008	.00641	.03138
#2	-.00046	.02284	.00169	.00787	.03440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00076**	**.00023**	**-.00299**	**.00016**
Stddev	.00011	.00004	.00006	.00007	.00003
%RSD	13.764	5.8435	26.039	2.2851	20.499
#1	.00069	.00080	.00019	-.00294	.00018
#2	.00084	.00073	.00027	-.00303	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB2 480-373744/1-B Acquired: 8/28/2017 12:49:59 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00586
Stddev	.00014
%RSD	2.3915
#1	.00596
#2	.00576
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4058.5	2650.0	21258.	4351.5
Stddev	2.2	.3	44.	3.9
%RSD	.05422	.01174	.20706	.09042
#1	4057.0	2649.8	21289.	4348.8
#2	4060.1	2650.2	21226.	4354.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.570%	98.984%	100.31%	103.94%
Range				

Sample Name: MB 480-373906/2-A Acquired: 8/28/2017 12:53:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.04414**	**-.00023**	**.00041**	**-.00008**
Stddev	.00013	.00072	.00200	.00002	.00002
%RSD	219.14	1.6203	882.47	4.4910	22.485
#1	-.00003	.04465	-.00164	.00040	-.00007
#2	.00015	.04364	.00119	.00043	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.01389**	**-.00025**	**.0207**	**-.00004**
Stddev	.00003	.00042	.00008	.0258	.00022
%RSD	15.236	3.0389	34.066	124.7	597.61
#1	-.00019	.01359	-.00030	.0389	-.00019
#2	-.00023	.01419	-.00019	.0025	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00053**	**.00140**	**.02423**	**-.00042**
Stddev	.00008	.00008	.00022	.02586	.00003
%RSD	19.215	14.915	15.806	106.76	8.3154
#1	-.00038	.00047	.00156	.04252	-.00039
#2	-.00050	.00059	.00124	.00594	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373906/2-A Acquired: 8/28/2017 12:53:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00343**	**.00191**	**-.00032**	**.00681**	**.00013**
Stddev	.00021	.00000	.00010	.00288	.00001
%RSD	6.0192	.01466	32.169	42.255	7.4521
#1	-.00357	.00191	-.00025	.00477	.00014
#2	-.00328	.00191	-.00039	.00884	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.00447**	**.00148**	**.00218**	**-.01898**
Stddev	.00085	.00054	.00066	.00069	.00368
%RSD	94.303	12.179	44.554	31.832	19.403
#1	-.00150	.00409	.00102	.00266	-.01638
#2	-.00030	.00486	.00195	.00169	-.02159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00002**	**.00010**	**-.00188**	**-.00000**
Stddev	.00027	.00004	.00001	.00070	.00010
%RSD	93.215	247.83	5.8148	37.377	47870.
#1	-.00049	.00004	.00010	-.00139	.00007
#2	-.00010	-.00001	.00010	-.00238	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373906/2-A Acquired: 8/28/2017 12:53:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00291
Stddev	.00063
%RSD	21.652
#1	.00335
#2	.00246
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4112.5	2660.1	21158.	4217.9
Stddev	4.1	4.6	11.	12.3
%RSD	.09914	.17247	.05428	.29277
#1	4109.6	2656.8	21166.	4209.2
#2	4115.3	2663.3	21150.	4226.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.880%	99.360%	99.843%	100.75%
Range				

Sample Name: LCS 480-373906/3-A Acquired: 8/28/2017 12:57:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98033**	**.05178**	**.99118**	**.02484**	**.97046**
Stddev	.00351	.01689	.00227	.00005	.00164
%RSD	.35761	32.618	.22876	.18607	.16950
#1	.98281	.06372	.99278	.02480	.96930
#2	.97785	.03983	.98957	.02487	.97162
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98299**	**.19002**	**.99170**	**-.0090**	**.90278**
Stddev	.00152	.00308	.00008	.0191	.00139
%RSD	.15417	1.6188	.00778	212.3	.15414
#1	.98192	.18785	.99164	.0045	.90180
#2	.98406	.19220	.99175	-.0226	.90377
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99446**	**.98424**	**.07272**	**.06636**	**.00032**
Stddev	.00146	.00472	.00061	.00961	.00084
%RSD	.14722	.48005	.84570	14.481	260.44
#1	.99550	.98758	.07228	.07315	.00091
#2	.99343	.98090	.07315	.05956	-.00027
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-373906/3-A Acquired: 8/28/2017 12:57:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02289**	**.97157**	**.98415**	**11.999**	**.92044**
Stddev	.00492	.00078	.00143	.041	.00140
%RSD	21.495	.08021	.14569	.33878	.15180
#1	.01941	.97102	.98516	11.971	.91945
#2	.02637	.97212	.98313	12.028	.92143
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95372**	**.01814**	**.98272**	**1.0120**	**.05784**
Stddev	.00266	.00093	.00122	.0034	.00114
%RSD	.27854	5.1464	.12433	.33186	1.9727
#1	.95185	.01880	.98186	1.0144	.05703
#2	.95560	.01748	.98359	1.0096	.05864
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.99207**	**.00047**	**.97896**	**.99594**
Stddev	.00014	.00386	.00019	.00072	.00004
%RSD	24.477	.38933	39.856	.07377	.00441
#1	.00068	.98934	.00060	.97947	.99591
#2	.00048	.99480	.00034	.97845	.99597
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373906/3-A Acquired: 8/28/2017 12:57:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.98732
Stddev	.00340
%RSD	.34434
#1	.98492
#2	.98973
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4033.1	2650.7	21327.	4334.4
Stddev	2.9	1.5	34.	16.9
%RSD	.07297	.05575	.16149	.39078
#1	4035.2	2649.6	21302.	4346.3
#2	4031.0	2651.7	21351.	4322.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.952%	99.009%	100.64%	103.53%
Range				

Sample Name: 480-123063-C-1-D Acquired: 8/28/2017 13:00:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.06954**	**.01341**	**.09860**	**.67069**
Stddev	.00028	.01501	.00037	.00009	.00401
%RSD	33.691	21.579	2.7576	.08856	.59778
#1	-.00064	.05893	.01367	.09854	.66786
#2	-.00104	.08015	.01314	.09866	.67353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	F **2104.7**	**.00089**	**.0298**	**.02566**
Stddev	.00008	22.2	.00008	.0249	.00029
%RSD	21.378	1.0531	8.9240	83.43	1.1364
#1	-.00042	2120.4	.00083	.0122	.02546
#2	-.00031	2089.0	.00094	.0474	.02587
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	F **-.01341**	**4.1934**	**2.4744**	**-.00493**
Stddev	.00044	.00183	.0117	.0142	.00289
%RSD	221.25	13.674	.27906	.57389	58.581
#1	.00051	-.01470	4.2016	2.4844	-.00289
#2	-.00011	-.01211	4.1851	2.4643	-.00697
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		23.000			
Low Limit		-.01000			

Sample Name: 480-123063-C-1-D Acquired: 8/28/2017 13:00:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.833**	**1.6198**	**.00348**	**23.832**	**.04895**
Stddev	.082	.0032	.00005	.141	.00027
%RSD	.35844	.19962	1.3224	.59029	.56050
#1	22.890	1.6221	.00345	23.931	.04876
#2	22.775	1.6176	.00351	23.732	.04915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11384**	**12.823**	**.00217**	**.00040**	**9.8236**
Stddev	.00046	.007	.00168	.00094	.0272
%RSD	.40081	.05830	77.272	235.46	.27728
#1	.11352	12.828	.00098	-.00027	9.8428
#2	.11416	12.818	.00335	.00107	9.8043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**3.4858**	**-.00115**	**-.00459**	**.00213**
Stddev	.00060	.0226	.00012	.00091	.00011
%RSD	99.720	.64842	10.422	19.917	5.1863
#1	.00102	3.5018	-.00124	-.00523	.00205
#2	.00018	3.4698	-.00107	-.00394	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-D Acquired: 8/28/2017 13:00:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.08341
Stddev	.00091
%RSD	1.0858
#1	.08277
#2	.08405
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2808.8	2213.9	17400.	4034.1
Stddev	3.9	5.5	48.	23.9
%RSD	.13770	.25041	.27688	.59242
#1	2811.5	2217.8	17434.	4017.2
#2	2806.0	2210.0	17366.	4051.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.217%	82.695%	82.111%	96.357%
Range				

Sample Name: 480-123063-C-1-Dsd@5 Acquired: 8/28/2017 13:04:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.03200**	**.00438**	**.01965**	**.13534**
Stddev	.00114	.02822	.00061	.00024	.00060
%RSD	193.62	88.196	13.986	1.2267	.44023
#1	.00022	.01204	.00481	.01948	.13576
#2	-.00139	.05196	.00395	.01982	.13492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**458.95**	**.00005**	**.0161**	**.00487**
Stddev	.00010	2.85	.00013	.0083	.00016
%RSD	59.040	.62144	288.42	51.54	3.1860
#1	-.00025	460.96	.00014	.0220	.00476
#2	-.00010	456.93	-.00005	.0102	.00498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00188**	**.85023**	**.45644**	**-.00520**
Stddev	.00023	.00142	.00218	.04401	.00004
%RSD	59.042	75.508	.25649	9.6425	.80206
#1	.00056	-.00088	.84869	.48756	-.00517
#2	.00023	-.00288	.85178	.42531	-.00522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-Dsd@5 Acquired: 8/28/2017 13:04:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7684**	**.32996**	**.00022**	**4.5812**	**.01007**
Stddev	.0157	.00164	.00008	.0048	.00044
%RSD	.32880	.49693	36.998	.10550	4.3597
#1	4.7795	.33112	.00027	4.5778	.01038
#2	4.7574	.32880	.00016	4.5846	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02103**	**2.3828**	**.00046**	**-.00061**	**1.9468**
Stddev	.00090	.0082	.00044	.00037	.0294
%RSD	4.2678	.34570	94.235	60.028	1.5093
#1	.02040	2.3770	.00015	-.00035	1.9675
#2	.02167	2.3886	.00077	-.00087	1.9260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.68889**	**-.00086**	**-.00164**	**.00041**
Stddev	.00001	.00033	.00034	.00025	.00061
%RSD	6.0533	.04800	39.279	15.247	149.24
#1	.00024	.68912	-.00110	-.00182	.00084
#2	.00022	.68866	-.00062	-.00147	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-Dsd@5 Acquired: 8/28/2017 13:04:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01853
Stddev	.00034
%RSD	1.8089
#1	.01876
#2	.01829
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3364.1	2423.2	19137.	4101.4
Stddev	3.9	5.9	78.	2.2
%RSD	.11592	.24381	.40629	.05438
#1	3366.9	2427.4	19082.	4099.8
#2	3361.4	2419.0	19192.	4102.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.706%	90.513%	90.306%	97.963%
Range				

Sample Name: 480-123063-C-1-D pds Acquired: 8/28/2017 13:08:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **2.1234**	**.06287**	**2.2486**	**.09990**	**2.7616**
Stddev	.0052	.03466	.0049	.00100	.0038
%RSD	.24457	55.133	.21684	1.0054	.13843
#1	2.1198	.03836	2.2521	.09918	2.7643
#2	2.1271	.08738	2.2452	.10061	2.7589
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000				
Low Limit	-.00600				

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9559**	F **2107.5**	**2.2113**	**.0418**	**2.0410**
Stddev	.0103	6.4	.0040	.0127	.0003
%RSD	.52613	.30600	.18036	30.42	.01294
#1	1.9632	2112.1	2.2085	.0508	2.0408
#2	1.9487	2102.9	2.2141	.0328	2.0412
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9843**	**2.0557**	**4.1784**	**2.4937**	**-.00685**
Stddev	.0029	.0126	.0146	.0609	.00036
%RSD	.14649	.61474	.35029	2.4408	5.2364
#1	1.9864	2.0646	4.1888	2.5368	-.00711
#2	1.9823	2.0467	4.1681	2.4507	-.00660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-D pds Acquired: 8/28/2017 13:08:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.608**	**3.5261**	**1.9729**	**23.731**	**2.0897**
Stddev	.029	.0069	.0029	.106	.0015
%RSD	.12690	.19414	.14790	.44779	.07324
#1	22.628	3.5310	1.9750	23.807	2.0886
#2	22.587	3.5213	1.9708	23.656	2.0907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2009**	**12.752**	**2.1463**	**2.2669**	**9.7986**
Stddev	.0023	.008	.0017	.0020	.1117
%RSD	.10327	.06393	.08017	.08993	1.1399
#1	2.2026	12.758	2.1451	2.2683	9.8776
#2	2.1993	12.746	2.1476	2.2654	9.7196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**3.4627**	**-.00070**	**1.9650**	**2.0276**
Stddev	.00043	.0209	.00016	.0086	.0007
%RSD	20.987	.60422	23.200	.43686	.03468
#1	.00176	3.4775	-.00081	1.9711	2.0281
#2	.00237	3.4479	-.00058	1.9589	2.0271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-D pds Acquired: 8/28/2017 13:08:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.9915**
Stddev	.0005
%RSD	.02310
#1	1.9912
#2	1.9918
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2783.6**	**2202.8**	**17465.**	**4023.1**
Stddev	2.4	.4	26.	5.7
%RSD	.08493	.01774	.15027	.14249
#1	2781.9	2202.5	17446.	4019.1
#2	2785.2	2203.0	17483.	4027.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.605%	82.279%	82.416%	96.094%
Range				

Sample Name: 480-123063-C-1-E MS Acquired: 8/28/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0462**	**.06368**	**1.0454**	**.09563**	**1.6141**
Stddev	.0005	.00599	.0011	.00027	.0004
%RSD	.04573	9.4118	.10593	.28166	.02804
#1	1.0465	.06792	1.0462	.09582	1.6138
#2	1.0459	.05944	1.0447	.09544	1.6144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.89856**	F **2024.1**	**1.0265**	**.0489**	**.95950**
Stddev	.00183	4.5	.0006	.0097	.00061
%RSD	.20382	.22351	.05923	19.74	.06379
#1	.89726	2027.3	1.0270	.0421	.95993
#2	.89985	2020.9	1.0261	.0557	.95907
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91021**	**.96599**	**4.0161**	**2.3597**	**-.00769**
Stddev	.00075	.00034	.0025	.0072	.00072
%RSD	.08268	.03545	.06297	.30311	9.3968
#1	.90968	.96575	4.0143	2.3546	-.00820
#2	.91075	.96624	4.0179	2.3647	-.00718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-E MS Acquired: 8/28/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.986**	**2.4608**	**.92094**	**23.659**	**.98765**
Stddev	.110	.0081	.00037	.013	.00253
%RSD	.49953	.33028	.04064	.05507	.25666
#1	21.908	2.4550	.92068	23.650	.98944
#2	22.063	2.4665	.92121	23.669	.98585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0739**	**12.249**	**1.0074**	**1.0443**	**9.4537**
Stddev	.0002	.001	.0011	.0004	.0129
%RSD	.01936	.00589	.10765	.03978	.13606
#1	1.0738	12.248	1.0066	1.0440	9.4628
#2	1.0741	12.249	1.0081	1.0446	9.4446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**4.2750**	**-.00107**	**.90747**	**.96005**
Stddev	.00066	.0176	.00004	.00073	.00133
%RSD	61.411	.41122	3.3058	.08040	.13881
#1	.00153	4.2626	-.00104	.90696	.95911
#2	.00061	4.2875	-.00109	.90799	.96099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-E MS Acquired: 8/28/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.96703
Stddev	.00387
%RSD	.40045
#1	.96429
#2	.96976
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2808.9	2212.9	17576.	4050.7
Stddev	1.7	.7	94.	8.3
%RSD	.05986	.03329	.53656	.20432
#1	2807.7	2212.3	17643.	4044.8
#2	2810.1	2213.4	17509.	4056.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.220%	82.656%	82.939%	96.751%
Range				

Sample Name: 480-123063-C-1-F MSD Acquired: 8/28/2017 13:15:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1003**	**.11364**	**1.0961**	**.10062**	**1.6915**
Stddev	.0059	.01332	.0014	.00045	.0022
%RSD	.53602	11.724	.12539	.45102	.12765
#1	1.1045	.10422	1.0951	.10094	1.6931
#2	1.0962	.12306	1.0971	.10030	1.6900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94331**	F **2115.6**	**1.0709**	**.0785**	**1.0015**
Stddev	.00136	2.7	.0002	.0149	.0000
%RSD	.14418	.12629	.01550	19.03	.00029
#1	.94234	2117.5	1.0708	.0680	1.0015
#2	.94427	2113.7	1.0710	.0891	1.0015
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95816**	**1.0153**	**4.2027**	**2.5210**	**-.00414**
Stddev	.00263	.0032	.0094	.0069	.00036
%RSD	.27429	.30979	.22379	.27536	8.6026
#1	.95630	1.0176	4.2094	2.5161	-.00389
#2	.96002	1.0131	4.1961	2.5259	-.00439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-F MSD Acquired: 8/28/2017 13:15:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.932**	**2.5648**	**.95759**	**23.961**	**1.0325**
Stddev	.005	.0042	.00035	.026	.0017
%RSD	.02365	.16184	.03684	.10755	.15933
#1	22.935	2.5677	.95734	23.943	1.0313
#2	22.928	2.5619	.95784	23.979	1.0337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1192**	**12.764**	**1.0517**	**1.0905**	**9.9683**
Stddev	.0016	.012	.0007	.0025	.1139
%RSD	.14016	.09625	.06415	.23298	1.1421
#1	1.1181	12.756	1.0522	1.0887	9.8878
#2	1.1203	12.773	1.0512	1.0923	10.049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**4.5148**	**-.00155**	**.94391**	**1.0077**
Stddev	.00040	.0021	.00005	.00111	.0017
%RSD	18.254	.04615	3.0326	.11795	.17033
#1	.00245	4.5163	-.00151	.94312	1.0089
#2	.00189	4.5133	-.00158	.94470	1.0065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-F MSD Acquired: 8/28/2017 13:15:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0071
Stddev	.0040
%RSD	.40198
#1	1.0042
#2	1.0099
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2789.7	2207.8	17452.	4017.0
Stddev	1.6	.9	23.	7.5
%RSD	.05634	.04169	.13010	.18576
#1	2788.5	2208.4	17468.	4022.3
#2	2790.8	2207.1	17436.	4011.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.753%	82.466%	82.357%	95.948%
Range				

Sample Name: blank Acquired: 8/28/2017 13:18:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00597**	**.00033**	**-.00037**	**-.00010**
Stddev	.00004	.00538	.00027	.00030	.00000
%RSD	17.965	90.208	80.463	80.850	1.0331
#1	.00025	-.00978	.00014	-.00016	-.00010
#2	.00019	-.00216	.00052	-.00059	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00816**	**-.00011**	**.0028**	**.00001**
Stddev	.00006	.00089	.00009	.0003	.00002
%RSD	38.674	10.956	88.574	11.37	168.46
#1	-.00019	.00879	-.00017	.0026	.00002
#2	-.00011	.00753	-.00004	.0031	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00057**	**-.00710**	**.04626**	**.00143**
Stddev	.00018	.00045	.00023	.00850	.00178
%RSD	783.85	78.195	3.1825	18.375	124.71
#1	-.00011	-.00088	-.00694	.04025	.00268
#2	.00015	-.00025	-.00726	.05227	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 13:18:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00181**	**-.00004**	**.00004**	**.00596**	**.00019**
Stddev	.00615	.00007	.00005	.00846	.00014
%RSD	339.66	191.95	127.20	141.95	71.035
#1	-.00616	-.00008	.00000	-.00002	.00009
#2	.00254	.00001	.00007	.01194	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00224**	**.00190**	**.00179**	**.00527**
Stddev	.00015	.00260	.00101	.00091	.00810
%RSD	85.140	116.47	52.981	50.756	153.70
#1	.00007	-.00039	.00119	.00115	-.00046
#2	.00028	-.00408	.00261	.00244	.01099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00007**	**-.00021**	**-.00057**	**-.00001**
Stddev	.00015	.00006	.00010	.00114	.00038
%RSD	681.33	86.217	49.424	199.56	3309.8
#1	.00008	-.00003	-.00014	-.00138	-.00028
#2	-.00012	-.00012	-.00029	.00024	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 13:18:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00311
Stddev	.00034
%RSD	10.942
#1	.00335
#2	.00287
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4088.0	2647.6	21094.	4188.5
Stddev	.5	2.8	4.	52.8
%RSD	.01276	.10415	.01683	1.2595
#1	4088.4	2649.5	21092.	4225.8
#2	4087.6	2645.6	21097.	4151.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.286%	98.894%	99.542%	100.04%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 13:22:33 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50776**	**24.301**	**.50263**	**.50529**	**.49151**
Stddev	.00323	.017	.00250	.00005	.00288
%RSD	.63571	.07156	.49775	.00961	.58645
#1	.50548	24.289	.50087	.50532	.48947
#2	.51005	24.313	.50440	.50525	.49355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50524**	**24.857**	**.50072**	**-.0525**	**.48941**
Stddev	.00009	.011	.00053	.0140	.00046
%RSD	.01782	.04565	.10629	26.75	.09302
#1	.50530	24.849	.50110	-.0426	.48909
#2	.50517	24.865	.50034	-.0624	.48974
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50848**	**.50101**	**24.463**	**24.941**	**.50138**
Stddev	.00304	.00068	.055	.086	.00030
%RSD	.59728	.13498	.22289	.34340	.06067
#1	.50633	.50053	24.502	24.881	.50159
#2	.51062	.50149	24.425	25.002	.50116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 13:22:33 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.953**	**.50815**	**.50016**	**24.936**	**.49693**
Stddev	.113	.00090	.00075	.013	.00014
%RSD	.45469	.17637	.15009	.05158	.02766
#1	24.873	.50751	.49963	24.945	.49683
#2	25.033	.50878	.50069	24.927	.49703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49620**	**25.311**	**.49823**	**.50395**	**24.278**
Stddev	.00280	.003	.00143	.00173	.025
%RSD	.56482	.01234	.28737	.34354	.10136
#1	.49422	25.313	.49924	.50517	24.260
#2	.49818	25.309	.49722	.50272	24.295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51176**	**.50035**	**.49802**	**.50699**	**.50318**
Stddev	.00052	.00042	.00143	.00024	.00304
%RSD	.10108	.08431	.28628	.04757	.60365
#1	.51212	.50065	.49701	.50682	.50103
#2	.51139	.50005	.49903	.50716	.50532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 13:22:33 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50262**
Stddev	.00400
%RSD	.79498
#1	.49980
#2	.50545
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3666.7**	**2597.7**	**20428.**	**4193.4**
Stddev	4.8	6.1	132.	14.9
%RSD	.13141	.23494	.64786	.35509
#1	3663.3	2593.4	20522.	4204.0
#2	3670.1	2602.0	20335.	4182.9

Sample Name: CCB-4204839 Acquired: 8/28/2017 13:26:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**-.00006**	**-.00132**	**-.00045**	**-.00012**
Stddev	.00017	.01921	.00035	.00002	.00002
%RSD	33.015	34699.	26.576	4.8520	19.716
#1	.00040	-.01364	-.00157	-.00044	-.00014
#2	.00065	.01353	-.00107	-.00047	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00311**	**-.00015**	**.0179**	**.00001**
Stddev	.00007	.00463	.00006	.0030	.00012
%RSD	37.698	148.70	41.267	16.76	887.46
#1	-.00025	-.00639	-.00019	.0200	-.00007
#2	-.00014	.00016	-.00010	.0158	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00009**	**-.00626**	**.01795**	**.00015**
Stddev	.00034	.00018	.00093	.03890	.00004
%RSD	279.30	195.79	14.782	216.76	28.346
#1	.00036	-.00004	-.00692	-.00956	.00012
#2	-.00012	.00022	-.00561	.04546	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 13:26:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00738**	**-.00012**	**-.00020**	**.00155**	**.00014**
Stddev	.00280	.00007	.00001	.00196	.00022
%RSD	37.918	58.375	6.9807	126.69	158.76
#1	-.00936	-.00007	-.00019	.00016	.00030
#2	-.00540	-.00017	-.00021	.00294	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00283**	**-.00011**	**.00130**	**-.01351**
Stddev	.00095	.00184	.00055	.00198	.01465
%RSD	182.27	64.851	503.82	152.85	108.47
#1	-.00119	-.00153	-.00050	.00270	-.00315
#2	.00015	-.00413	.00028	-.00010	-.02387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00005**	**-.00008**	**-.00126**	**.00008**
Stddev	.00004	.00003	.00030	.00067	.00015
%RSD	10.404	52.514	349.67	53.401	190.16
#1	-.00037	-.00003	.00012	-.00174	-.00003
#2	-.00043	-.00007	-.00029	-.00079	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 13:26:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00081
Stddev	.00021
%RSD	25.845
#1	.00067
#2	.00096
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4104.2	2658.0	21157.	4197.6
Stddev	2.4	.4	4.	37.8
%RSD	.05915	.01422	.01751	.90132
#1	4106.0	2658.2	21155.	4170.8
#2	4102.5	2657.7	21160.	4224.3

Sample Name: CCVL-4195955 Acquired: 8/28/2017 13:29:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00597**	**.17083**	**.01651**	**.01985**	**.00198**
Stddev	.00003	.01187	.00252	.00015	.00000
%RSD	.53474	6.9465	15.240	.75059	.08784
#1	.00595	.17923	.01828	.01974	.00198
#2	.00599	.16244	.01473	.01995	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.49848**	**.00192**	**.0119**	**.00382**
Stddev	.00013	.00171	.00004	.0061	.00011
%RSD	6.8421	.34212	2.0493	51.53	2.8370
#1	.00198	.49969	.00189	.0076	.00390
#2	.00179	.49727	.00194	.0162	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**.01051**	**.04417**	**.53885**	**.02950**
Stddev	.00108	.00013	.00210	.01285	.00216
%RSD	25.535	1.2410	4.7505	2.3852	7.3313
#1	.00500	.01042	.04268	.54794	.03103
#2	.00347	.01060	.04565	.52976	.02797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 13:29:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19767**	**.00295**	**.00985**	**.98774**	**.00947**
Stddev	.00649	.00003	.00011	.00238	.00030
%RSD	3.2809	.98634	1.1176	.24122	3.1268
#1	.19308	.00297	.00992	.98942	.00926
#2	.20225	.00293	.00977	.98605	.00968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00936**	**.19805**	**.01976**	**.02663**	**.49829**
Stddev	.00080	.00257	.00108	.00348	.00035
%RSD	8.5757	1.2972	5.4817	13.055	.06951
#1	.00993	.19987	.01899	.02909	.49854
#2	.00880	.19623	.02052	.02418	.49805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00937**	**.00492**	**.00483**	**.01884**	**.00479**
Stddev	.00013	.00005	.00051	.00019	.00036
%RSD	1.3556	.92605	10.474	.99691	7.4409
#1	.00946	.00489	.00447	.01870	.00504
#2	.00928	.00495	.00518	.01897	.00454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 13:29:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01104
Stddev	.00014
%RSD	1.2976
#1	.01094
#2	.01114
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4067.6	2654.2	21212.	4205.6
Stddev	1.7	2.2	91.	22.7
%RSD	.04158	.08193	.42762	.54029
#1	4066.4	2652.6	21276.	4221.7
#2	4068.8	2655.7	21148.	4189.5

Sample Name: LB 480-373730/1-B Acquired: 8/28/2017 13:33:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01726**	**.00266**	**.03134**	**.02588**
Stddev	.00095	.00426	.00096	.00032	.00000
%RSD	14298.	24.684	36.013	1.0120	.01247
#1	-.00066	.02027	.00334	.03111	.02588
#2	.00068	.01425	.00198	.03156	.02588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.32194**	**-.00015**	**.0131**	**-.00045**
Stddev	.00003	.00563	.00005	.0086	.00010
%RSD	19.926	1.7480	29.950	65.72	21.591
#1	-.00011	.31796	-.00012	.0192	-.00052
#2	-.00014	.32592	-.00018	.0070	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00220**	**.00183**	**.05807**	**.47769**	**.00212**
Stddev	.00012	.00113	.00229	.00061	.00036
%RSD	5.4725	61.913	3.9443	.12851	17.062
#1	.00212	.00262	.05646	.47725	.00238
#2	.00229	.00103	.05969	.47812	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-373730/1-B Acquired: 8/28/2017 13:33:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03360**	**.00277**	**.00170**	F **1450.4**	**.00041**
Stddev	.00109	.00015	.00009	.4	.00006
%RSD	3.2538	5.4666	5.3122	.02657	14.213
#1	.03438	.00267	.00176	1450.2	.00037
#2	.03283	.00288	.00163	1450.7	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.04344**	**-.00116**	**.00589**	**.04925**
Stddev	.00107	.00077	.00176	.00341	.01750
%RSD	320.41	1.7772	152.07	58.006	35.541
#1	.00042	.04399	.00009	.00347	.06162
#2	-.00109	.04290	-.00241	.00830	.03687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00136**	**.00290**	**-.00007**	**-.00497**	**-.00005**
Stddev	.00013	.00000	.00047	.00121	.00005
%RSD	9.4354	.13266	655.45	24.400	88.666
#1	.00127	.00291	-.00040	-.00582	-.00009
#2	.00145	.00290	.00026	-.00411	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-373730/1-B Acquired: 8/28/2017 13:33:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00814
Stddev	.00092
%RSD	11.327
#1	.00879
#2	.00748
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3047.3	2359.0	17868.	4159.4
Stddev	.1	4.5	25.	11.1
%RSD	.00328	.19152	.13883	.26650
#1	3047.4	2362.2	17851.	4151.5
#2	3047.3	2355.8	17886.	4167.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.011%	88.113%	84.319%	99.348%
Range				

Sample Name: MB 480-373905/2-A Acquired: 8/28/2017 13:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.02441**	**-.00022**	**.00041**	**-.00006**
Stddev	.00013	.00735	.00062	.00026	.00001
%RSD	69.105	30.125	283.76	63.339	12.780
#1	-.00009	.01921	-.00066	.00059	-.00006
#2	-.00027	.02961	.00022	.00023	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.01035**	**-.00012**	**-.0157**	**-.00018**
Stddev	.00006	.00082	.00001	.0210	.00001
%RSD	35.047	7.9376	11.973	133.4	4.2141
#1	-.00014	.00977	-.00013	-.0009	-.00017
#2	-.00023	.01093	-.00011	-.0305	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00049**	**.00266**	**.01712**	**-.00065**
Stddev	.00006	.00077	.00008	.00954	.00065
%RSD	8.0117	156.94	3.1251	55.723	99.061
#1	.00076	.00104	.00260	.01038	-.00020
#2	.00068	-.00005	.00272	.02387	-.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373905/2-A Acquired: 8/28/2017 13:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00673**	**.00190**	**-.00034**	**.07263**	**.00037**
Stddev	.00224	.00001	.00025	.00214	.00008
%RSD	33.242	.44075	73.499	2.9492	21.515
#1	-.00515	.00189	-.00052	.07111	.00032
#2	-.00831	.00190	-.00016	.07414	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.00014**	**.00046**	**.00072**	**-.00575**
Stddev	.00016	.00185	.00042	.00061	.00377
%RSD	21.448	1281.4	91.474	84.583	65.546
#1	-.00084	.00117	.00076	.00029	-.00308
#2	-.00062	-.00146	.00016	.00115	-.00841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00008**	**.00016**	**-.00200**	**.00009**
Stddev	.00053	.00001	.00033	.00125	.00032
%RSD	1461.0	12.489	203.20	62.731	348.66
#1	.00034	.00009	.00039	-.00111	-.00013
#2	-.00041	.00007	-.00007	-.00289	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373905/2-A Acquired: 8/28/2017 13:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00098
Stddev	.00030
%RSD	30.819
#1	.00077
#2	.00119
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4113.8	2662.8	21352.	4247.3
Stddev	6.8	4.2	66.	11.8
%RSD	.16612	.15864	.30768	.27791
#1	4118.6	2665.8	21306.	4239.0
#2	4109.0	2659.8	21399.	4255.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.912%	99.462%	100.76%	101.45%
Range				

Sample Name: LCS 480-373905/3-A Acquired: 8/28/2017 13:40:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1008**	**.01032**	**1.0984**	**.03096**	**1.0154**
Stddev	.0076	.02512	.0028	.00004	.0029
%RSD	.69304	243.52	.25735	.11821	.28507
#1	1.0954	.02808	1.1004	.03093	1.0134
#2	1.1062	-.00745	1.0964	.03098	1.0175
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99941**	**.30965**	**1.0795**	**-.0431**	**1.0258**
Stddev	.00158	.00516	.0001	.0269	.0021
%RSD	.15767	1.6656	.00893	62.32	.20051
#1	.99830	.31329	1.0794	-.0622	1.0272
#2	1.0005	.30600	1.0795	-.0241	1.0243
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0354**	**1.0366**	**.05325**	**.45730**	**.00119**
Stddev	.0067	.0022	.00186	.00552	.00153
%RSD	.64653	.21348	3.4903	1.2060	128.78
#1	1.0307	1.0350	.05193	.45340	.00227
#2	1.0401	1.0382	.05456	.46120	.00011
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-373905/3-A Acquired: 8/28/2017 13:40:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01008**	**1.0041**	**.99025**	**1425.0**	**1.0420**
Stddev	.00293	.0010	.00070	2.6	.0032
%RSD	29.099	.10003	.07118	.18468	.30341
#1	.01215	1.0048	.99075	1423.1	1.0442
#2	.00800	1.0033	.98975	1426.9	1.0397
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0484**	**.03288**	**1.0314**	**1.0991**	**.04867**
Stddev	.0012	.00164	.0000	.0047	.00520
%RSD	.10962	4.9919	.00120	.42524	10.681
#1	1.0476	.03404	1.0315	1.0958	.04500
#2	1.0492	.03172	1.0314	1.1024	.05235
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**1.0066**	**-.00015**	**.97557**	**1.0546**
Stddev	.00000	.0001	.00027	.00087	.0076
%RSD	.10339	.01388	188.61	.08916	.72421
#1	.00090	1.0065	.00005	.97495	1.0492
#2	.00091	1.0067	-.00034	.97618	1.0600
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373905/3-A Acquired: 8/28/2017 13:40:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1140**
Stddev	.0043
%RSD	.38761
#1	1.1109
#2	1.1170
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3039.0**	**2369.9**	**17968.**	**4154.2**
Stddev	5.6	1.0	23.	16.8
%RSD	.18391	.04251	.12789	.40537
#1	3035.1	2369.2	17984.	4142.3
#2	3043.0	2370.6	17952.	4166.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.809%	88.521%	84.790%	99.226%
Range				

Sample Name: 480-123063-F-2-C Acquired: 8/28/2017 13:44:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.21971**	**.00518**	**.08865**	**.46418**
Stddev	.00072	.00054	.00289	.00011	.00129
%RSD	25361.	.24759	55.784	.12965	.27895
#1	.00051	.21932	.00723	.08856	.46510
#2	-.00051	.22009	.00314	.08873	.46327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**389.68**	**.00412**	**.0148**	**.03416**
Stddev	.00006	4.26	.00020	.0124	.00034
%RSD	32.293	1.0943	4.7954	83.65	.98255
#1	.00014	386.66	.00426	.0061	.03392
#2	.00022	392.69	.00398	.0236	.03440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.08468**	**.38506**	**1.5511**	**.01471**
Stddev	.00044	.00093	.00116	.0149	.00110
%RSD	129.90	1.1020	.30210	.96308	7.4611
#1	.00065	.08534	.38424	1.5405	.01548
#2	.00003	.08402	.38588	1.5616	.01393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-C Acquired: 8/28/2017 13:44:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8636**	**.64229**	**.00079**	**1420.1**	**.08505**
Stddev	.0101	.00179	.00026	3.3	.00012
%RSD	.12865	.27908	32.193	.23021	.13666
#1	7.8707	.64355	.00061	1417.8	.08513
#2	7.8564	.64102	.00097	1422.4	.08497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98430**	**2.4797**	**.01327**	**.00621**	**1.1927**
Stddev	.00514	.0052	.00061	.00188	.0080
%RSD	.52252	.20785	4.6338	30.218	.66620
#1	.98793	2.4761	.01283	.00489	1.1871
#2	.98066	2.4834	.01370	.00754	1.1983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**.81816**	**.00011**	**-.00371**	**-.00016**
Stddev	.00025	.00070	.00021	.00063	.00003
%RSD	18.766	.08498	200.57	16.891	20.455
#1	.00153	.81767	-.00004	-.00415	-.00018
#2	.00117	.81865	.00026	-.00326	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-C Acquired: 8/28/2017 13:44:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.5165**
Stddev	.0040
%RSD	.26517
#1	1.5193
#2	1.5136
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2867.9**	**2285.9**	**17537.**	**4083.2**
Stddev	3.1	1.5	59.	21.6
%RSD	.10752	.06650	.33551	.52999
#1	2865.7	2284.9	17495.	4098.6
#2	2870.1	2287.0	17578.	4067.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.653%	85.385%	82.755%	97.530%
Range				

Sample Name: 480-123063-F-2-Csd@5 Acquired: 8/28/2017 13:48:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.03919**	**-.00056**	**.01760**	**.09423**
Stddev	.00019	.01547	.00367	.00006	.00016
%RSD	514.33	39.484	649.85	.36593	.16975
#1	.00010	.02825	.00203	.01755	.09412
#2	-.00017	.05013	-.00316	.01764	.09434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**78.142**	**.00067**	**.0116**	**.00641**
Stddev	.00002	.090	.00019	.0330	.00009
%RSD	40.285	.11548	27.645	285.3	1.3754
#1	-.00003	78.078	.00080	.0349	.00635
#2	-.00005	78.205	.00054	-.0118	.00647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.01621**	**.07005**	**.29485**	**.00220**
Stddev	.00055	.00018	.00016	.05330	.00047
%RSD	242.15	1.1121	.23135	18.079	21.537
#1	.00016	.01634	.07016	.33254	.00253
#2	-.00062	.01608	.06993	.25715	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-Csd@5 Acquired: 8/28/2017 13:48:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6272**	**.12820**	**-.00013**	**274.92**	**.01630**
Stddev	.0107	.00010	.00005	.36	.00013
%RSD	.65681	.08149	37.548	.12999	.76914
#1	1.6196	.12828	-.00009	275.17	.01639
#2	1.6347	.12813	-.00016	274.67	.01621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19060**	**.45347**	**.00222**	**-.00101**	**.22704**
Stddev	.00027	.00017	.00059	.00081	.01491
%RSD	.14114	.03850	26.755	80.339	6.5670
#1	.19041	.45334	.00180	-.00044	.21650
#2	.19079	.45359	.00264	-.00159	.23759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.16114**	**-.00036**	**-.00200**	**-.00003**
Stddev	.00037	.00023	.00038	.00162	.00070
%RSD	70.366	.14132	105.00	80.734	2098.5
#1	.00026	.16098	-.00009	-.00315	-.00053
#2	.00078	.16131	-.00062	-.00086	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-Csd@5 Acquired: 8/28/2017 13:48:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.30272**
Stddev	.00076
%RSD	.24956
#1	.30326
#2	.30219
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3362.3**	**2465.3**	**19199.**	**4126.2**
Stddev	1.2	2.4	60.	17.2
%RSD	.03586	.09611	.31248	.41629
#1	3363.2	2466.9	19156.	4114.1
#2	3361.5	2463.6	19241.	4138.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.661%	92.084%	90.598%	98.556%
Range				

Sample Name: 480-123063-F-2-C pds Acquired: 8/28/2017 13:51:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **2.3020**	**.19486**	**2.2305**	**.09123**	**2.5504**
Stddev	.0041	.00442	.0092	.00069	.0002
%RSD	.17840	2.2694	.41077	.75107	.00688
#1	2.3049	.19799	2.2370	.09075	2.5503
#2	2.2991	.19173	2.2240	.09171	2.5505
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000				
Low Limit	-.00600				

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0318**	**386.99**	**2.2245**	**.0253**	**2.1262**
Stddev	.0094	.79	.0005	.0097	.0021
%RSD	.46018	.20466	.02332	38.55	.10076
#1	2.0385	387.55	2.2242	.0322	2.1277
#2	2.0252	386.43	2.2249	.0184	2.1247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0802**	**2.1575**	**.37711**	**1.5355**	**.01553**
Stddev	.0012	.0044	.00445	.0801	.00065
%RSD	.05690	.20508	1.1799	5.2162	4.1705
#1	2.0810	2.1607	.37396	1.4788	.01598
#2	2.0794	2.1544	.38026	1.5921	.01507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-C pds Acquired: 8/28/2017 13:51:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7307**	**2.6180**	**2.0077**	**1421.7**	**2.2105**
Stddev	.0070	.0039	.0017	.1	.0017
%RSD	.09075	.14731	.08495	.00921	.07794
#1	7.7257	2.6208	2.0065	1421.6	2.2117
#2	7.7357	2.6153	2.0089	1421.8	2.2093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1474**	**2.4637**	**2.1397**	**2.2599**	**1.2136**
Stddev	.0035	.0032	.0019	.0038	.0022
%RSD	.11052	.13116	.08914	.17000	.18284
#1	3.1450	2.4660	2.1384	2.2572	1.2152
#2	3.1499	2.4614	2.1411	2.2626	1.2120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.81585**	**-.00016**	**1.9964**	**2.0982**
Stddev	.00040	.00687	.00030	.0081	.0038
%RSD	43.963	.84243	186.89	.40532	.18187
#1	.00062	.82071	.00005	1.9907	2.1009
#2	.00119	.81099	-.00038	2.0021	2.0955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-C pds Acquired: 8/28/2017 13:51:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**3.5983**
Stddev	.0038
%RSD	.10597
#1	3.5956
#2	3.6010
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2859.7**	**2290.1**	**17636.**	**4059.2**
Stddev	5.6	5.5	47.	6.4
%RSD	.19429	.24049	.26664	.15817
#1	2863.6	2294.0	17670.	4063.7
#2	2855.8	2286.2	17603.	4054.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.454%	85.540%	83.225%	96.955%
Range				

Sample Name: 480-123063-F-2-D MS Acquired: 8/28/2017 13:55:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1417**	**.16143**	**1.1222**	**.09106**	**1.5056**
Stddev	.0048	.01608	.0042	.00004	.0067
%RSD	.41776	9.9614	.37662	.04750	.44357
#1	1.1451	.17280	1.1252	.09103	1.5009
#2	1.1384	.15006	1.1192	.09109	1.5103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0027**	**391.30**	**1.1171**	**.0172**	**1.0733**
Stddev	.0002	.63	.0019	.0293	.0014
%RSD	.02030	.16208	.17074	170.6	.12779
#1	1.0025	390.85	1.1157	-.0035	1.0742
#2	1.0028	391.75	1.1184	.0379	1.0723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0290**	**1.1380**	**.38444**	**1.5253**	**.01537**
Stddev	.0048	.0066	.00049	.0634	.00072
%RSD	.46341	.57861	.12673	4.1564	4.7145
#1	1.0324	1.1426	.38479	1.4804	.01485
#2	1.0256	1.1333	.38410	1.5701	.01588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-D MS Acquired: 8/28/2017 13:55:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8723**	**1.6288**	**1.0044**	**1435.0**	**1.1363**
Stddev	.0384	.0057	.0027	4.4	.0010
%RSD	.48752	.35301	.26424	.30414	.08433
#1	7.8994	1.6329	1.0025	1431.9	1.1369
#2	7.8452	1.6247	1.0063	1438.1	1.1356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0652**	**2.4570**	**1.0829**	**1.1261**	**1.2313**
Stddev	.0024	.0001	.0036	.0077	.0077
%RSD	.11853	.00198	.33289	.68603	.62924
#1	2.0635	2.4570	1.0803	1.1206	1.2258
#2	2.0670	2.4571	1.0854	1.1315	1.2368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**1.8369**	**-.00003**	**.99193**	**1.0683**
Stddev	.00082	.0001	.00008	.00526	.0068
%RSD	103.46	.00587	316.92	.53027	.63354
#1	.00021	1.8370	.00003	.99565	1.0731
#2	.00137	1.8369	-.00009	.98821	1.0635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-D MS Acquired: 8/28/2017 13:55:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.5735**
Stddev	.0165
%RSD	.64170
#1	2.5852
#2	2.5619
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2854.3**	**2280.1**	**17601.**	**4048.1**
Stddev	1.3	5.2	85.	11.8
%RSD	.04423	.22775	.48396	.29118
#1	2855.2	2283.8	17540.	4039.8
#2	2853.4	2276.4	17661.	4056.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.322%	85.167%	83.056%	96.690%
Range				

Sample Name: 480-123063-F-2-E MSD Acquired: 8/28/2017 13:59:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1057**	**.18745**	**1.0879**	**.08853**	**1.4641**
Stddev	.0053	.02036	.0021	.00004	.0080
%RSD	.47640	10.864	.19638	.04873	.54540
#1	1.1019	.20185	1.0894	.08850	1.4585
#2	1.1094	.17305	1.0864	.08856	1.4698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97391**	**380.17**	**1.0837**	**.0410**	**1.0458**
Stddev	.00037	1.48	.0009	.0243	.0009
%RSD	.03850	.38831	.08096	59.35	.08368
#1	.97418	381.21	1.0831	.0238	1.0464
#2	.97364	379.13	1.0843	.0582	1.0452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99782**	**1.0982**	**.38218**	**1.4789**	**.01307**
Stddev	.00691	.0084	.00315	.0231	.00021
%RSD	.69216	.76644	.82393	1.5645	1.6242
#1	.99293	1.0923	.37995	1.4625	.01292
#2	1.0027	1.1042	.38440	1.4952	.01322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-E MSD Acquired: 8/28/2017 13:59:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6478**	**1.5795**	**.97664**	**1392.1**	**1.1076**
Stddev	.0637	.0063	.00170	4.6	.0027
%RSD	.83328	.39686	.17404	.32775	.24161
#1	7.6028	1.5751	.97544	1388.9	1.1095
#2	7.6929	1.5839	.97784	1395.3	1.1057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0102**	**2.3850**	**1.0466**	**1.0874**	**1.1788**
Stddev	.0034	.0034	.0003	.0032	.0143
%RSD	.16842	.14337	.02636	.29508	1.2168
#1	2.0126	2.3825	1.0464	1.0851	1.1889
#2	2.0078	2.3874	1.0468	1.0896	1.1687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**1.7842**	**-.00009**	**.96414**	**1.0405**
Stddev	.00040	.0070	.00061	.00115	.0026
%RSD	26.832	.39540	701.40	.11934	.24927
#1	.00179	1.7892	.00034	.96496	1.0386
#2	.00122	1.7792	-.00052	.96333	1.0423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-E MSD Acquired: 8/28/2017 13:59:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.5034**
Stddev	.0056
%RSD	.22394
#1	2.4994
#2	2.5074
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2869.9**	**2291.8**	**17665.**	**4077.2**
Stddev	2.8	1.9	29.	6.5
%RSD	.09775	.08172	.16301	.16030
#1	2867.9	2293.1	17686.	4072.5
#2	2871.9	2290.5	17645.	4081.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.702%	85.604%	83.362%	97.384%
Range				

Sample Name: 480-123063-G-3-C Acquired: 8/28/2017 14:02:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.15717**	**.00703**	**.16114**	**1.2404**
Stddev	.00115	.01051	.00211	.00022	.0041
%RSD	416.96	6.6838	29.999	.13577	.32955
#1	.00109	.14974	.00554	.16099	1.2375
#2	-.00054	.16460	.00852	.16130	1.2433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**509.99**	**.00848**	**.0532**	**.02321**
Stddev	.00004	.49	.00001	.0022	.00023
%RSD	34.399	.09634	.09896	4.051	.97753
#1	.00015	509.64	.00847	.0548	.02337
#2	.00009	510.34	.00849	.0517	.02305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00010**	**1.6005**	**4.5498**	**.00664**
Stddev	.00108	.00046	.0063	.0288	.00178
%RSD	832.64	454.45	.39244	.63206	26.754
#1	.00063	.00022	1.5960	4.5294	.00790
#2	-.00089	-.00043	1.6049	4.5701	.00538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-G-3-C Acquired: 8/28/2017 14:02:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.695**	**4.9699**	**.00023**	**1477.5**	**.04008**
Stddev	.082	.0225	.00010	2.4	.00060
%RSD	.70359	.45344	44.024	.16083	1.4901
#1	11.637	4.9539	.00030	1475.8	.04050
#2	11.753	4.9858	.00016	1479.2	.03965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9636**	**5.8255**	**.00362**	**.00214**	**4.7218**
Stddev	.0092	.0026	.00010	.00078	.0165
%RSD	.30885	.04407	2.6707	36.716	.34984
#1	2.9701	5.8237	.00355	.00269	4.7335
#2	2.9571	5.8273	.00369	.00158	4.7101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**.95562**	**.00037**	**-.00489**	**.00015**
Stddev	.00020	.00111	.00028	.00160	.00015
%RSD	13.172	.11643	75.034	32.696	104.54
#1	.00168	.95484	.00057	-.00376	.00004
#2	.00140	.95641	.00018	-.00601	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-G-3-C Acquired: 8/28/2017 14:02:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **22.894**
Stddev	.127
%RSD	.55645
#1	22.804
#2	22.984
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2819.0**	**2276.1**	**17512.**	**4107.6**
Stddev	1.1	3.5	36.	.2
%RSD	.03854	.15209	.20371	.00576
#1	2819.8	2278.6	17537.	4107.8
#2	2818.2	2273.7	17487.	4107.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.466%	85.018%	82.637%	98.111%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:06:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51310**	**24.228**	**.50250**	**.50743**	**.49062**
Stddev	.00079	.152	.00014	.00054	.00182
%RSD	.15381	.62568	.02741	.10708	.36997
#1	.51254	24.120	.50241	.50781	.49190
#2	.51366	24.335	.50260	.50704	.48933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50198**	**24.844**	**.50107**	**.0054**	**.48851**
Stddev	.00156	.097	.00104	.0018	.00054
%RSD	.31097	.38872	.20779	34.17	.11084
#1	.50088	24.776	.50180	.0041	.48813
#2	.50308	24.912	.50033	.0066	.48889
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51718**	**.49707**	**24.263**	**24.698**	**.50005**
Stddev	.00274	.00036	.054	.101	.00100
%RSD	.52920	.07327	.22323	.40863	.19908
#1	.51911	.49681	24.225	24.626	.49935
#2	.51524	.49733	24.301	24.769	.50075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:06:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.921**	**.50696**	**.50258**	**24.969**	**.49548**
Stddev	.006	.00202	.00112	.109	.00041
%RSD	.02404	.39927	.22317	.43704	.08197
#1	24.925	.50839	.50179	24.892	.49577
#2	24.916	.50553	.50338	25.046	.49520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49705**	**25.400**	**.49927**	**.50537**	**24.216**
Stddev	.00001	.001	.00142	.00385	.113
%RSD	.00189	.00377	.28449	.76090	.46853
#1	.49704	25.400	.50027	.50808	24.135
#2	.49706	25.401	.49826	.50265	24.296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51097**	**.50249**	**.50337**	**.50769**	**.50830**
Stddev	.00053	.00377	.00106	.00013	.00138
%RSD	.10327	.74943	.21094	.02511	.27228
#1	.51059	.49982	.50412	.50778	.50927
#2	.51134	.50515	.50262	.50760	.50732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:06:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51071**
Stddev	.00297
%RSD	.58146
#1	.51281
#2	.50861
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3669.9**	**2592.3**	**20347.**	**4183.5**
Stddev	4.6	1.6	107.	18.8
%RSD	.12657	.06169	.52699	.44823
#1	3673.2	2593.4	20271.	4196.8
#2	3666.7	2591.1	20423.	4170.2

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:10:03 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00023**	**-.00131**	**-.00018**	**-.00012**
Stddev	.00014	.00777	.00220	.00016	.00001
%RSD	23.301	3316.1	168.48	86.092	10.527
#1	.00069	-.00526	.00025	-.00007	-.00013
#2	.00050	.00573	-.00286	-.00029	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00053**	**-.00016**	**.0040**	**-.00010**
Stddev	.00003	.00203	.00002	.0062	.00014
%RSD	22.267	382.81	11.288	157.6	138.80
#1	-.00012	-.00196	-.00015	.0084	-.00000
#2	-.00017	.00090	-.00017	-.0005	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00023**	**-.00688**	**.01631**	**-.00045**
Stddev	.00008	.00119	.00127	.06092	.00090
%RSD	40.600	520.24	18.458	373.60	199.50
#1	.00027	.00107	-.00598	.05939	.00018
#2	.00015	-.00061	-.00778	-.02677	-.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:10:03 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00584**	**-.00005**	**-.00015**	**.11287**	**.00012**
Stddev	.00318	.00001	.00008	.00332	.00018
%RSD	54.510	25.265	52.827	2.9376	151.84
#1	-.00809	-.00006	-.00009	.11521	.00025
#2	-.00359	-.00004	-.00021	.11052	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**-.00519**	**.00012**	**.00220**	**-.00911**
Stddev	.00091	.00120	.00059	.00317	.00097
%RSD	74.820	23.208	495.80	144.24	10.590
#1	-.00186	-.00604	-.00030	-.00004	-.00843
#2	-.00057	-.00434	.00054	.00444	-.00980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.00001**	**-.00018**	**-.00113**	**.00004**
Stddev	.00034	.00003	.00007	.00162	.00034
%RSD	80.586	237.77	36.631	143.66	865.56
#1	-.00066	-.00004	-.00013	.00002	-.00020
#2	-.00018	.00001	-.00022	-.00227	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:10:03 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00089
Stddev	.00026
%RSD	29.676
#1	.00108
#2	.00070
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4101.5	2647.5	21210.	4203.7
Stddev	8.5	4.0	114.	16.3
%RSD	.20790	.15259	.53763	.38704
#1	4095.5	2644.6	21290.	4192.1
#2	4107.5	2650.3	21129.	4215.2

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:13:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00621**	**.17916**	**.01361**	**.02028**	**.00195**
Stddev	.00061	.00068	.00188	.00014	.00006
%RSD	9.8808	.37831	13.846	.71015	2.8568
#1	.00664	.17868	.01227	.02038	.00199
#2	.00578	.17964	.01494	.02017	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.50102**	**.00199**	**-.0069**	**.00375**
Stddev	.00000	.00827	.00000	.0139	.00001
%RSD	.03924	1.6510	.05241	200.2	.37832
#1	.00188	.49517	.00199	.0029	.00374
#2	.00188	.50687	.00199	-.0167	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	**.01017**	**.04459**	**.54650**	**.03129**
Stddev	.00010	.00012	.00157	.01882	.00016
%RSD	2.4415	1.1724	3.5256	3.4437	.50990
#1	.00419	.01008	.04570	.53320	.03118
#2	.00433	.01025	.04348	.55981	.03141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:13:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19595**	**.00300**	**.00986**	**1.0897**	**.00954**
Stddev	.00249	.00010	.00008	.0070	.00024
%RSD	1.2732	3.1722	.81205	.64671	2.4868
#1	.19771	.00293	.00992	1.0847	.00971
#2	.19419	.00307	.00981	1.0947	.00938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00906**	**.19493**	**.02039**	**.02538**	**.48904**
Stddev	.00008	.00657	.00088	.00192	.01981
%RSD	.89531	3.3683	4.3103	7.5750	4.0515
#1	.00900	.19957	.02101	.02402	.47503
#2	.00912	.19028	.01976	.02674	.50305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00915**	**.00509**	**.00480**	**.02000**	**.00500**
Stddev	.00028	.00004	.00001	.00072	.00005
%RSD	3.0973	.76911	.25730	3.6239	1.0926
#1	.00935	.00512	.00479	.02051	.00504
#2	.00895	.00506	.00481	.01949	.00496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:13:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01143
Stddev	.00009
%RSD	.78293
#1	.01136
#2	.01149
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4080.7	2652.2	21164.	4196.1
Stddev	2.9	7.9	5.	25.1
%RSD	.07206	.29855	.02465	.59735
#1	4082.8	2646.6	21161.	4213.8
#2	4078.6	2657.8	21168.	4178.4

Sample Name: 480-123128-A-1-C Acquired: 8/28/2017 14:17:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.06916**	**.01055**	**.10188**	**1.1703**
Stddev	.00153	.01057	.00327	.00054	.0023
%RSD	254.53	15.291	31.002	.52837	.19847
#1	-.00048	.07663	.01286	.10150	1.1719
#2	.00168	.06168	.00824	.10226	1.1686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**572.67**	**.00347**	**.0298**	**.05782**
Stddev	.00011	6.20	.00014	.0259	.00026
%RSD	137.07	1.0824	4.1462	87.14	.44222
#1	.00000	568.29	.00337	.0114	.05764
#2	.00015	577.05	.00357	.0481	.05800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00077**	**1.6498**	**3.2766**	**-.00143**
Stddev	.00007	.00105	.0009	.0117	.00133
%RSD	23.659	135.13	.05594	.35782	93.173
#1	-.00024	.00151	1.6505	3.2683	-.00049
#2	-.00034	.00003	1.6492	3.2849	-.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123128-A-1-C Acquired: 8/28/2017 14:17:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6961**	**6.8076**	**.00037**	**1429.7**	**.06484**
Stddev	.0231	.0024	.00029	1.2	.00076
%RSD	.29957	.03454	78.926	.08650	1.1742
#1	7.6798	6.8093	.00016	1430.6	.06430
#2	7.7124	6.8060	.00058	1428.8	.06538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91127**	**3.5165**	**.00848**	**.00132**	**2.5532**
Stddev	.00362	.0002	.00014	.00019	.0173
%RSD	.39678	.00483	1.6048	14.393	.67629
#1	.90871	3.5167	.00838	.00145	2.5654
#2	.91383	3.5164	.00857	.00118	2.5410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**1.5785**	**-.00028**	**-.00416**	**-.00023**
Stddev	.00047	.0054	.00007	.00094	.00057
%RSD	45.185	.34213	25.652	22.619	243.32
#1	.00071	1.5823	-.00033	-.00350	.00017
#2	.00138	1.5746	-.00023	-.00483	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123128-A-1-C Acquired: 8/28/2017 14:17:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.96694
Stddev	.00085
%RSD	.08753
#1	.96634
#2	.96753
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2814.2	2271.0	17605.	4064.6
Stddev	.2	3.8	42.	1.6
%RSD	.00632	.16747	.23727	.03852
#1	2814.1	2273.7	17576.	4063.5
#2	2814.4	2268.3	17635.	4065.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.350%	84.828%	83.079%	97.086%
Range				

Sample Name: 480-122829-2 tot Acquired: 8/28/2017 14:21:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.45583**	**.02366**	**.11654**	**8.7877**
Stddev	.00017	.00911	.00110	.00096	.0499
%RSD	20.714	1.9995	4.6517	.82124	.56753
#1	-.00095	.46228	.02288	.11587	8.8230
#2	-.00071	.44939	.02444	.11722	8.7524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	F **3899.5**	**.00063**	**.3690**	**.08658**
Stddev	.00006	4.5	.00017	.0016	.00001
%RSD	7.7093	.11594	26.551	.4417	.01662
#1	-.00078	3902.7	.00075	.3701	.08659
#2	-.00087	3896.3	.00052	.3678	.08657
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.05461**	**25.776**	F **2359.2**	**.06609**
Stddev	.00049	.00035	.016	28.3	.00449
%RSD	245.93	.64151	.06378	1.1984	6.7949
#1	-.00015	.05486	25.788	2379.2	.06291
#2	.00055	.05437	25.765	2339.2	.06927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-122829-2 tot Acquired: 8/28/2017 14:21:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5194**	**22.175**	**.01201**	F **5249.4**	**.04826**
Stddev	.0417	.058	.00005	27.4	.00028
%RSD	.75475	.26207	.39785	.52179	.58816
#1	5.5489	22.134	.01198	5230.1	.04806
#2	5.4900	22.216	.01204	5268.8	.04846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				4500.0	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00371**	**68.744**	**.01016**	**-.01506**	**5.0982**
Stddev	.00304	.168	.00179	.00357	.0269
%RSD	81.927	.24420	17.638	23.704	.52814
#1	-.00156	68.626	.00890	-.01253	5.0791
#2	-.00587	68.863	.01143	-.01758	5.1172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	F **42.242**	**.00739**	**-.00810**	**.00064**
Stddev	.00040	.056	.00056	.00182	.00017
%RSD	22.521	.13347	7.5452	22.507	26.586
#1	.00149	42.202	.00779	-.00681	.00076
#2	.00206	42.282	.00700	-.00939	.00052
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-122829-2 tot Acquired: 8/28/2017 14:21:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04001
Stddev	.00008
%RSD	.19775
#1	.04006
#2	.03995
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2005.5	2063.0	15760.	4073.9
Stddev	3.4	3.2	22.	10.2
%RSD	.16895	.15643	.13870	.25088
#1	2007.9	2065.3	15776.	4081.2
#2	2003.1	2060.7	15745.	4066.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	48.707%	77.059%	74.372%	97.308%
Range				

Sample Name: 480-123104-A-1-ASD@5 Acquired: 8/28/2017 14:25:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**9.3115**	**.00663**	**.05717**	**.02028**
Stddev	.00097	.0454	.00105	.00058	.00005
%RSD	1591.6	.48809	15.832	1.0186	.24670
#1	-.00062	9.2794	.00737	.05675	.02024
#2	.00074	9.3436	.00588	.05758	.02031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**298.45**	**.00069**	**.0153**	**.00386**
Stddev	.00000	.72	.00007	.0104	.00008
%RSD	.38311	.23983	10.243	67.89	1.9686
#1	.00040	297.94	.00064	.0227	.00381
#2	.00040	298.95	.00073	.0080	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01369**	**.00331**	**11.605**	**6.3906**	**.01222**
Stddev	.00034	.00089	.042	.0184	.00017
%RSD	2.4707	26.977	.36585	.28838	1.3806
#1	.01345	.00267	11.575	6.4037	.01234
#2	.01393	.00394	11.635	6.3776	.01210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123104-A-1-ASD@5 Acquired: 8/28/2017 14:25:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**183.60**	**.89310**	**-.00023**	**1.2534**	**.00873**
Stddev	1.25	.00516	.00014	.0325	.00027
%RSD	.68012	.57831	59.939	2.5939	3.0903
#1	182.72	.88945	-.00013	1.2764	.00854
#2	184.49	.89676	-.00032	1.2304	.00892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02636**	**6.6547**	**.00050**	**-.00059**	**3.5630**
Stddev	.00029	.0975	.00057	.00241	.0554
%RSD	1.1125	1.4646	114.39	408.42	1.5538
#1	.02657	6.5858	.00091	-.00229	3.6021
#2	.02615	6.7236	.00010	.00111	3.5239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01111**	**.15344**	**.10547**	**-.00087**	**.01347**
Stddev	.00076	.00032	.00384	.00073	.00008
%RSD	6.8564	.21143	3.6444	84.642	.60624
#1	.01057	.15321	.10819	-.00035	.01341
#2	.01164	.15367	.10275	-.00138	.01353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123104-A-1-ASD@5 Acquired: 8/28/2017 14:25:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07223
Stddev	.00037
%RSD	.51355
#1	.07250
#2	.07197
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3255.5	2428.6	19258.	4135.6
Stddev	3.8	.8	23.	1.4
%RSD	.11689	.03496	.11846	.03342
#1	3258.2	2429.2	19275.	4134.6
#2	3252.8	2428.0	19242.	4136.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.067%	90.715%	90.879%	98.780%
Range				

Sample Name: Filter blank 373301 Acquired: 8/28/2017 14:29:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00203**	**.00239**	**-.00094**	**-.00008**
Stddev	.00015	.01595	.00020	.00021	.00002
%RSD	71.414	787.32	8.5394	22.030	26.967
#1	.00010	-.01331	.00253	-.00080	-.00006
#2	.00031	.00925	.00225	-.00109	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.03319**	**-.00030**	**.0216**	**.00014**
Stddev	.00006	.00005	.00001	.0123	.00006
%RSD	29.633	.14138	4.9204	56.79	45.547
#1	-.00016	.03322	-.00031	.0303	.00010
#2	-.00025	.03315	-.00029	.0129	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.00089**	**-.00562**	**.59676**	**.00145**
Stddev	.00014	.00001	.00028	.06919	.00059
%RSD	26.872	.73122	4.9313	11.594	40.612
#1	-.00062	.00089	-.00542	.54783	.00103
#2	-.00042	.00089	-.00581	.64568	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: Filter blank 373301 Acquired: 8/28/2017 14:29:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00112**	**.00065**	**-.00042**	**.30952**	**.00007**
Stddev	.00208	.00006	.00007	.00670	.00001
%RSD	185.82	9.5066	17.499	2.1647	13.317
#1	.00035	.00060	-.00048	.31426	.00006
#2	-.00259	.00069	-.00037	.30478	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.00521**	**-.00101**	**.00333**	**-.01192**
Stddev	.00037	.00071	.00090	.00037	.00391
%RSD	54.398	13.540	89.456	11.038	32.802
#1	-.00095	.00471	-.00164	.00307	-.00916
#2	-.00042	.00571	-.00037	.00359	-.01469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**.00005**	**.00027**	**.00027**	**.00008**
Stddev	.00015	.00001	.00016	.00031	.00049
%RSD	14.303	28.584	57.510	116.79	580.73
#1	-.00097	.00006	.00039	.00005	-.00026
#2	-.00119	.00004	.00016	.00049	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: Filter blank 373301 Acquired: 8/28/2017 14:29:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00721
Stddev	.00064
%RSD	8.9328
#1	.00766
#2	.00675
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4255.1	2733.4	21683.	4260.8
Stddev	10.0	2.8	9.	13.7
%RSD	.23429	.10107	.04091	.32128
#1	4262.1	2735.4	21689.	4251.1
#2	4248.0	2731.5	21676.	4270.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.34%	102.10%	102.32%	101.77%
Range				

Sample Name: 480-123023-F-2-A Acquired: 8/28/2017 14:32:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**11.973**	**.00638**	**.04274**	**.14976**
Stddev	.00072	.064	.00180	.00012	.00004
%RSD	384.04	.53327	28.260	.27305	.02344
#1	-.00032	11.928	.00510	.04266	.14973
#2	.00070	12.019	.00765	.04282	.14978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**89.424**	**.00031**	**.0236**	**.00912**
Stddev	.00005	.584	.00010	.0238	.00003
%RSD	10.414	.65347	34.181	100.9	.35774
#1	.00049	89.011	.00038	.0404	.00909
#2	.00042	89.837	.00023	.0068	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01631**	**.00926**	**15.617**	**8.2065**	**.01239**
Stddev	.00007	.00061	.068	.0484	.00079
%RSD	.43632	6.5434	.43281	.59019	6.4059
#1	.01636	.00883	15.569	8.1723	.01183
#2	.01626	.00969	15.665	8.2408	.01295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123023-F-2-A Acquired: 8/28/2017 14:32:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.640**	**.77030**	**.00157**	**15.942**	**.02093**
Stddev	.001	.00008	.00014	.044	.00039
%RSD	.00234	.01009	8.6720	.27824	1.8674
#1	29.640	.77035	.00167	15.911	.02065
#2	29.641	.77024	.00147	15.974	.02120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01199**	**49.947**	**-.00030**	**-.00037**	**27.937**
Stddev	.00021	.085	.00059	.00170	.128
%RSD	1.7774	.16961	194.33	460.49	.45756
#1	.01214	50.007	.00011	.00083	27.846
#2	.01184	49.887	-.00072	-.00157	28.027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.17460**	**.29684**	**-.00055**	**.02878**
Stddev	.00015	.00050	.00336	.00109	.00025
%RSD	53.646	.28505	1.1334	200.05	.86428
#1	.00018	.17425	.29446	-.00132	.02860
#2	.00040	.17495	.29922	.00023	.02895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123023-F-2-A Acquired: 8/28/2017 14:32:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.05603
Stddev	.00032
%RSD	.56910
#1	.05581
#2	.05626
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3631.7	2593.6	20567.	4302.9
Stddev	3.8	4.3	73.	29.0
%RSD	.10589	.16453	.35267	.67481
#1	3629.0	2590.6	20618.	4323.4
#2	3634.4	2596.6	20515.	4282.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.204%	96.876%	97.053%	102.78%
Range				

Sample Name: BLANK Acquired: 8/28/2017 14:36:11 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00094**	**.00020**	**-.00073**	**-.00004**
Stddev	.00031	.00859	.00112	.00023	.00002
%RSD	55.791	913.94	566.17	32.200	45.778
#1	.00034	-.00513	-.00059	-.00056	-.00002
#2	.00078	.00701	.00099	-.00089	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.01641**	**-.00015**	**.0010**	**.00002**
Stddev	.00001	.00138	.00007	.0349	.00022
%RSD	5.0240	8.4096	50.666	3365.	1385.6
#1	-.00014	.01544	-.00009	.0257	-.00014
#2	-.00015	.01739	-.00020	-.0236	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00013**	**.01164**	**.27434**	**.00263**
Stddev	.00031	.00036	.00398	.01140	.00010
%RSD	502.16	281.02	34.211	4.1551	3.7148
#1	.00015	.00038	.00882	.26628	.00256
#2	-.00028	-.00013	.01445	.28240	.00270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 14:36:11 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00850**	**.00006**	**-.00040**	**.16509**	**.00008**
Stddev	.00117	.00002	.00013	.00760	.00027
%RSD	13.776	36.499	31.638	4.6060	331.56
#1	-.00767	.00007	-.00049	.15972	-.00011
#2	-.00933	.00004	-.00031	.17047	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.00143**	**.00092**	**.00399**	**-.01282**
Stddev	.00112	.00073	.00017	.00059	.00644
%RSD	90.779	51.299	18.327	14.919	50.195
#1	-.00203	.00195	.00080	.00441	-.00827
#2	-.00044	.00091	.00104	.00357	-.01738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00004**	**.00023**	**-.00229**	**-.00009**
Stddev	.00008	.00009	.00014	.00261	.00031
%RSD	139.61	244.10	61.017	113.80	345.04
#1	-.00000	.00003	.00033	-.00414	-.00031
#2	-.00012	-.00010	.00013	-.00045	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 14:36:11 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00209
Stddev	.00030
%RSD	14.309
#1	.00188
#2	.00231
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4082.2	2641.5	21093.	4180.2
Stddev	5.5	6.6	1.	2.0
%RSD	.13551	.25088	.00674	.04706
#1	4078.3	2636.8	21094.	4178.8
#2	4086.1	2646.2	21092.	4181.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.144%	98.668%	99.535%	99.846%
Range				

Sample Name: MB 480-374152/1-A Acquired: 8/28/2017 14:39:49 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00688**	**.00011**	**.00079**	**-.00006**
Stddev	.00103	.01137	.00051	.00008	.00003
%RSD	812.41	165.12	470.73	9.7544	45.294
#1	.00060	-.00115	.00046	.00085	-.00008
#2	-.00086	.01492	-.00025	.00074	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.02272**	**-.00015**	**.0052**	**-.00001**
Stddev	.00000	.00051	.00013	.0026	.00010
%RSD	4.0701	2.2444	86.664	49.20	734.00
#1	-.00009	.02236	-.00024	.0070	-.00008
#2	-.00010	.02308	-.00006	.0034	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00018**	**.00027**	**.19682**	**-.00052**
Stddev	.00029	.00018	.00352	.00039	.00157
%RSD	1354.2	96.626	1282.0	.20028	301.00
#1	-.00023	.00006	-.00222	.19710	-.00163
#2	.00018	.00031	.00277	.19655	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-374152/1-A Acquired: 8/28/2017 14:39:49 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00390**	**.00084**	**-.00032**	**.14415**	**.00001**
Stddev	.00187	.00006	.00010	.01152	.00005
%RSD	47.953	7.4493	31.838	7.9920	978.06
#1	-.00523	.00079	-.00025	.15230	.00004
#2	-.00258	.00088	-.00039	.13600	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	**.00268**	**.00065**	**.00499**	**-.01031**
Stddev	.00026	.00085	.00053	.00482	.00046
%RSD	20.286	31.904	81.621	96.683	4.4537
#1	-.00145	.00207	.00103	.00840	-.00998
#2	-.00109	.00328	.00028	.00158	-.01063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.00013**	**-.00017**	**-.00086**	**.00043**
Stddev	.00065	.00006	.00011	.00035	.00058
%RSD	90.404	44.055	62.226	41.210	135.34
#1	-.00118	.00017	-.00025	-.00111	.00002
#2	-.00026	.00009	-.00010	-.00061	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-374152/1-A Acquired: 8/28/2017 14:39:49 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00101
Stddev	.00031
%RSD	30.887
#1	.00079
#2	.00124
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4129.4	2667.4	21323.	4265.3
Stddev	.4	.8	29.	21.9
%RSD	.00896	.02964	.13767	.51452
#1	4129.2	2667.9	21344.	4249.8
#2	4129.7	2666.8	21302.	4280.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.29%	99.633%	100.62%	101.88%
Range				

Sample Name: LCS 480-374152/2-A Acquired: 8/28/2017 14:43:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04850**	**10.064**	**.20223**	**.20909**	**.20427**
Stddev	.00043	.036	.00086	.00060	.00014
%RSD	.88477	.35730	.42609	.28461	.06943
#1	.04881	10.089	.20284	.20951	.20437
#2	.04820	10.038	.20162	.20867	.20417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20222**	**9.9768**	**.20685**	**.0094**	**.19143**
Stddev	.00035	.0007	.00054	.0051	.00007
%RSD	.17445	.00677	.26210	54.16	.03694
#1	.20247	9.9763	.20723	.0130	.19148
#2	.20197	9.9773	.20646	.0058	.19138
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20683**	**.20122**	**10.206**	**10.057**	**.20713**
Stddev	.00079	.00069	.010	.073	.00083
%RSD	.38427	.34073	.09582	.72839	.39866
#1	.20627	.20171	10.213	10.005	.20655
#2	.20740	.20074	10.200	10.108	.20772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-374152/2-A Acquired: 8/28/2017 14:43:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.358**	**.20944**	**.20611**	**10.026**	**.19649**
Stddev	.002	.00008	.00089	.012	.00025
%RSD	.02129	.03863	.43334	.12064	.12938
#1	10.357	.20950	.20674	10.034	.19667
#2	10.360	.20939	.20548	10.017	.19631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20347**	**10.126**	**.20410**	**.20564**	**10.058**
Stddev	.00091	.019	.00222	.00102	.025
%RSD	.44888	.18826	1.0870	.49463	.24600
#1	.20412	10.139	.20567	.20636	10.075
#2	.20283	10.112	.20253	.20492	10.040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18215**	**.20279**	**.20083**	**.20687**	**.20949**
Stddev	.00081	.00013	.00069	.00214	.00001
%RSD	.44486	.06343	.34452	1.0332	.00671
#1	.18272	.20288	.20132	.20839	.20950
#2	.18157	.20269	.20034	.20536	.20948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-374152/2-A Acquired: 8/28/2017 14:43:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20717
Stddev	.00080
%RSD	.38821
#1	.20774
#2	.20660
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3871.5	2636.0	20908.	4279.6
Stddev	3.4	4.3	7.	.4
%RSD	.08712	.16219	.03246	.00985
#1	3869.1	2633.0	20903.	4279.3
#2	3873.9	2639.1	20912.	4279.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.027%	98.463%	98.662%	102.22%
Range				

Sample Name: LCSD 480-374152/3-A Acquired: 8/28/2017 14:46:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04861**	**10.052**	**.20160**	**.20857**	**.20410**
Stddev	.00028	.011	.00103	.00026	.00068
%RSD	.56714	.11132	.50961	.12500	.33305
#1	.04881	10.059	.20087	.20875	.20362
#2	.04842	10.044	.20232	.20838	.20458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20173**	**9.9061**	**.20547**	**-.0115**	**.18970**
Stddev	.00156	.0551	.00002	.0249	.00034
%RSD	.77288	.55580	.00966	217.2	.18138
#1	.20063	9.8671	.20545	.0061	.18995
#2	.20283	9.9450	.20548	-.0291	.18946
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20297**	**.20144**	**10.089**	**10.079**	**.20625**
Stddev	.00078	.00287	.044	.101	.00013
%RSD	.38648	1.4260	.43676	.99919	.06265
#1	.20242	.19941	10.058	10.008	.20635
#2	.20353	.20348	10.120	10.150	.20616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-374152/3-A Acquired: 8/28/2017 14:46:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.247**	**.20765**	**.20417**	**10.086**	**.19471**
Stddev	.017	.00037	.00016	.040	.00031
%RSD	.16328	.18036	.07825	.39176	.16171
#1	10.236	.20738	.20428	10.058	.19493
#2	10.259	.20791	.20405	10.114	.19448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20177**	**10.113**	**.20377**	**.20564**	**10.051**
Stddev	.00251	.010	.00009	.00303	.026
%RSD	1.2428	.09946	.04278	1.4716	.25800
#1	.19999	10.120	.20371	.20778	10.032
#2	.20354	10.106	.20383	.20350	10.069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18223**	**.20434**	**.19934**	**.20289**	**.20795**
Stddev	.00016	.00054	.00063	.00017	.00016
%RSD	.08586	.26504	.31654	.08362	.07569
#1	.18212	.20396	.19978	.20277	.20806
#2	.18234	.20472	.19889	.20301	.20784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-374152/3-A Acquired: 8/28/2017 14:46:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20456**
Stddev	.00169
%RSD	.82766
#1	.20576
#2	.20336
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3872.6**	**2633.9**	**20893.**	**4265.0**
Stddev	4.5	4.1	5.	75.1
%RSD	.11684	.15604	.02360	1.7603
#1	3869.4	2631.0	20896.	4318.1
#2	3875.8	2636.8	20890.	4211.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.054%	98.382%	98.593%	101.87%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:50:20 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51147**	**24.028**	**.50279**	**.50443**	**.49232**
Stddev	.00478	.036	.00050	.00032	.00206
%RSD	.93375	.15114	.09963	.06382	.41805
#1	.51485	24.054	.50314	.50466	.49087
#2	.50809	24.002	.50243	.50420	.49378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49802**	**24.520**	**.50038**	**-.0092**	**.48827**
Stddev	.00174	.064	.00049	.0014	.00063
%RSD	.34971	.26143	.09705	15.71	.12929
#1	.49925	24.566	.50072	-.0102	.48782
#2	.49679	24.475	.50003	-.0082	.48872
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51405**	**.49912**	**23.763**	**25.015**	**.50668**
Stddev	.00077	.00189	.105	.145	.00367
%RSD	.15025	.37808	.44235	.58069	.72375
#1	.51351	.50045	23.837	25.117	.50927
#2	.51460	.49778	23.689	24.912	.50408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:50:20 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.906**	**.50663**	**.50113**	**24.955**	**.49673**
Stddev	.045	.00016	.00003	.096	.00183
%RSD	.18034	.03181	.00629	.38605	.36801
#1	24.937	.50674	.50111	25.023	.49544
#2	24.874	.50651	.50115	24.887	.49802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49565**	**25.346**	**.49788**	**.50594**	**23.900**
Stddev	.00114	.020	.00056	.00193	.018
%RSD	.22916	.07757	.11279	.38155	.07679
#1	.49645	25.360	.49748	.50730	23.887
#2	.49485	25.332	.49827	.50457	23.913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51103**	**.50109**	**.50129**	**.50406**	**.50600**
Stddev	.00193	.00167	.00028	.00262	.00078
%RSD	.37742	.33399	.05578	.51975	.15450
#1	.50966	.50227	.50149	.50591	.50656
#2	.51239	.49991	.50110	.50221	.50545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:50:20 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50590**
Stddev	.00117
%RSD	.23132
#1	.50507
#2	.50673
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3673.8**	**2598.2**	**20343.**	**4205.0**
Stddev	.1	1.0	.	15.6
%RSD	.00383	.03834	.00138	.37141
#1	3673.7	2597.5	20343.	4193.9
#2	3673.9	2599.0	20343.	4216.0

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:53:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.00167**	**.00147**	**-.00017**	**-.00011**
Stddev	.00007	.03359	.00177	.00008	.00002
%RSD	13.090	2014.5	120.16	44.628	14.059
#1	-.00052	-.02208	.00022	-.00022	-.00010
#2	-.00062	.02542	.00272	-.00012	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00001**	**-.00017**	**.0066**	**.00000**
Stddev	.00003	.00355	.00002	.0156	.00016
%RSD	30.078	24945.	13.488	236.8	8355.0
#1	-.00008	-.00252	-.00019	.0177	-.00011
#2	-.00013	.00250	-.00016	-.0045	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00022**	**-.00382**	**.17215**	**.00184**
Stddev	.00019	.00027	.00002	.02914	.00001
%RSD	76.120	125.24	.46058	16.925	.62283
#1	.00011	.00002	-.00381	.19275	.00183
#2	.00037	.00041	-.00383	.15154	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:53:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00738**	**.00002**	**-.00009**	**.08578**	**.00054**
Stddev	.00202	.00005	.00005	.00220	.00030
%RSD	27.348	267.27	49.107	2.5629	56.632
#1	-.00595	-.00002	-.00006	.08733	.00032
#2	-.00881	.00005	-.00013	.08422	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**-.00142**	**.00127**	**.00254**	**-.00862**
Stddev	.00037	.00053	.00038	.00112	.00695
%RSD	30.465	37.289	29.654	43.930	80.641
#1	-.00149	-.00180	.00154	.00333	-.00370
#2	-.00096	-.00105	.00101	.00175	-.01353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00001**	**.00008**	**-.00052**	**.00050**
Stddev	.00001	.00003	.00030	.00098	.00035
%RSD	5.5336	242.30	367.23	187.28	70.497
#1	-.00014	-.00001	.00029	.00017	.00025
#2	-.00013	.00003	-.00013	-.00122	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:53:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00069
Stddev	.00030
%RSD	43.024
#1	.00048
#2	.00089
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4113.8	2657.8	21261.	4214.5
Stddev	2.5	6.9	21.	4.4
%RSD	.06126	.25798	.09744	.10360
#1	4112.1	2653.0	21246.	4217.6
#2	4115.6	2662.7	21275.	4211.4

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:57:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00634**	**.18408**	**.01470**	**.01987**	**.00197**
Stddev	.00033	.01914	.00119	.00025	.00005
%RSD	5.1441	10.400	8.0623	1.2477	2.5467
#1	.00657	.17054	.01386	.02005	.00200
#2	.00611	.19762	.01554	.01970	.00193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49945**	**.00204**	**.0081**	**.00378**
Stddev	.00001	.00383	.00011	.0021	.00003
%RSD	.32987	.76607	5.5239	25.90	.70479
#1	.00193	.50215	.00196	.0066	.00380
#2	.00194	.49674	.00212	.0095	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**.00941**	**.04551**	**.58858**	**.02785**
Stddev	.00067	.00117	.00124	.00145	.00042
%RSD	15.548	12.468	2.7266	.24556	1.5146
#1	.00478	.01024	.04639	.58960	.02755
#2	.00383	.00858	.04463	.58755	.02815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:57:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19646**	**.00299**	**.00982**	**1.1001**	**.00980**
Stddev	.00269	.00011	.00002	.0033	.00002
%RSD	1.3681	3.7810	.18239	.30160	.19070
#1	.19836	.00307	.00981	1.1024	.00982
#2	.19456	.00291	.00983	1.0977	.00979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00799**	**.19762**	**.01935**	**.02608**	**.48428**
Stddev	.00012	.00011	.00037	.00125	.01096
%RSD	1.4427	.05662	1.9158	4.7798	2.2626
#1	.00807	.19770	.01961	.02696	.47653
#2	.00791	.19754	.01909	.02520	.49203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00904**	**.00498**	**.00464**	**.01997**	**.00498**
Stddev	.00024	.00011	.00019	.00021	.00035
%RSD	2.6549	2.2150	4.1246	1.0650	7.0020
#1	.00887	.00506	.00477	.01982	.00522
#2	.00921	.00490	.00450	.02012	.00473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:57:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01152
Stddev	.00044
%RSD	3.7941
#1	.01121
#2	.01183
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4066.8	2651.3	21130.	4185.5
Stddev	.2	4.2	32.	33.3
%RSD	.00610	.15948	.15000	.79579
#1	4067.0	2648.3	21108.	4209.1
#2	4066.6	2654.2	21153.	4162.0

Sample Name: 480-122778-E-19-D Acquired: 8/28/2017 15:01:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.28169**	**.00023**	**.01907**	**.04729**
Stddev	.00064	.03317	.00092	.00033	.00002
%RSD	946.42	11.775	396.77	1.7255	.04341
#1	.00038	.25823	.00088	.01884	.04727
#2	-.00052	.30514	-.00042	.01930	.04730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**68.785**	**.00013**	**-.0110**	**.00039**
Stddev	.00008	.137	.00004	.0098	.00001
%RSD	102.38	.19936	27.032	89.56	1.8616
#1	-.00014	68.882	.00011	-.0040	.00039
#2	-.00002	68.688	.00015	-.0179	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**.00195**	**1.5995**	**2.0624**	**-.00041**
Stddev	.00007	.00060	.0076	.0113	.00036
%RSD	2.4228	30.796	.47657	.54812	89.935
#1	.00284	.00238	1.6049	2.0544	-.00015
#2	.00274	.00153	1.5941	2.0704	-.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122778-E-19-D Acquired: 8/28/2017 15:01:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.959**	**.06490**	**.00028**	**5.1096**	**.00228**
Stddev	.014	.00027	.00004	.0002	.00008
%RSD	.04764	.42201	15.179	.00420	3.3752
#1	28.949	.06510	.00031	5.1097	.00223
#2	28.968	.06471	.00025	5.1094	.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**10.110**	**-.00213**	**.00431**	**7.2788**
Stddev	.00074	.012	.00032	.00120	.0018
%RSD	82.868	.11962	15.240	27.765	.02495
#1	.00142	10.101	-.00190	.00516	7.2775
#2	.00037	10.119	-.00236	.00347	7.2801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.09578**	**.01349**	**-.00079**	**.00181**
Stddev	.00010	.00001	.00032	.00070	.00002
%RSD	37.124	.01128	2.3987	88.250	.84202
#1	.00033	.09579	.01372	-.00030	.00180
#2	.00019	.09577	.01327	-.00129	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122778-E-19-D Acquired: 8/28/2017 15:01:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00341
Stddev	.00082
%RSD	24.034
#1	.00398
#2	.00283
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3749.2	2581.4	20480.	4213.6
Stddev	.3	1.0	66.	7.7
%RSD	.00795	.03740	.32402	.18378
#1	3749.4	2582.1	20433.	4219.0
#2	3749.0	2580.7	20526.	4208.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.058%	96.420%	96.642%	100.64%
Range				

Sample Name: 480-122778-E-18-D Acquired: 8/28/2017 15:04:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.01632**	**.00410**	**.01756**	**.05927**
Stddev	.00043	.00358	.00089	.00006	.00001
%RSD	124.96	21.938	21.633	.35641	.01573
#1	-.00064	.01885	.00473	.01760	.05926
#2	-.00004	.01379	.00347	.01751	.05927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**94.397**	**.00015**	**-.0079**	**-.00005**
Stddev	.00008	.618	.00004	.0248	.00013
%RSD	44.400	.65441	26.400	312.6	278.40
#1	-.00023	94.833	.00012	.0096	.00004
#2	-.00012	93.960	.00018	-.0255	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**.00014**	**.07209**	**2.1100**	**.00229**
Stddev	.00020	.00063	.00068	.0259	.00089
%RSD	13.328	462.16	.94576	1.2249	39.061
#1	.00139	.00058	.07257	2.1283	.00166
#2	.00168	-.00031	.07161	2.0918	.00292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122778-E-18-D Acquired: 8/28/2017 15:04:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.848**	**.00183**	**-.00003**	**12.381**	**.02176**
Stddev	.034	.00001	.00002	.051	.00072
%RSD	.11029	.72182	65.094	.41322	3.3212
#1	30.872	.00182	-.00005	12.417	.02125
#2	30.823	.00184	-.00002	12.345	.02227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00117**	**8.7736**	**-.00185**	**.00298**	**7.8368**
Stddev	.00022	.0142	.00110	.00038	.0017
%RSD	18.563	.16212	59.358	12.778	.02200
#1	.00132	8.7837	-.00107	.00271	7.8380
#2	.00101	8.7635	-.00262	.00325	7.8355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.11138**	**-.00026**	**-.00200**	**-.00016**
Stddev	.00013	.00083	.00019	.00026	.00047
%RSD	30.728	.74222	71.442	12.788	298.04
#1	-.00050	.11197	-.00013	-.00218	-.00049
#2	-.00032	.11080	-.00039	-.00182	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122778-E-18-D Acquired: 8/28/2017 15:04:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00297
Stddev	.00050
%RSD	16.703
#1	.00332
#2	.00262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3679.1	2554.4	20330.	4192.4
Stddev	8.1	6.0	9.	16.7
%RSD	.22111	.23658	.04579	.39866
#1	3673.3	2550.1	20337.	4180.6
#2	3684.8	2558.6	20324.	4204.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.355%	95.411%	95.937%	100.14%
Range				

Sample Name: 480-122703-D-2-B Acquired: 8/28/2017 15:08:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**1.3081**	**.00191**	**.26261**	**.29912**
Stddev	.00043	.0052	.00235	.00062	.00090
%RSD	2169.5	.39632	122.85	.23699	.30128
#1	-.00028	1.3045	.00025	.26217	.29848
#2	.00032	1.3118	.00357	.26305	.29976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**172.28**	**.00016**	**-.0006**	**.00051**
Stddev	.00004	.94	.00018	.0070	.00002
%RSD	24.904	.54608	111.91	1179.	3.5953
#1	-.00013	172.94	.00029	.0043	.00049
#2	-.00018	171.61	.00003	-.0055	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00261**	**.00230**	**13.075**	**3.4094**	**.00049**
Stddev	.00008	.00125	.035	.0245	.00043
%RSD	3.2017	54.338	.26995	.71978	86.030
#1	.00267	.00319	13.100	3.3920	.00079
#2	.00255	.00142	13.050	3.4267	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122703-D-2-B Acquired: 8/28/2017 15:08:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.519**	**1.0910**	**.00036**	**16.827**	**.00214**
Stddev	.132	.0039	.00011	.004	.00031
%RSD	.36086	.35260	29.909	.02284	14.312
#1	36.426	1.0883	.00028	16.824	.00236
#2	36.612	1.0937	.00043	16.830	.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**5.1671**	**-.00041**	**.00161**	**6.6204**
Stddev	.00025	.0186	.00147	.00152	.0782
%RSD	26.494	.36064	362.23	94.434	1.1810
#1	.00114	5.1803	-.00145	.00268	6.6757
#2	.00078	5.1539	.00063	.00053	6.5651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.38274**	**.03263**	**-.00029**	**.00268**
Stddev	.00055	.00135	.00393	.00103	.00047
%RSD	146.71	.35387	12.057	359.39	17.481
#1	-.00001	.38369	.03541	-.00101	.00235
#2	.00076	.38178	.02984	.00044	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122703-D-2-B Acquired: 8/28/2017 15:08:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00949**
Stddev	.00040
%RSD	4.1766
#1	.00921
#2	.00977
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3544.0**	**2527.6**	**20103.**	**4192.2**
Stddev	5.1	1.0	53.	19.0
%RSD	.14263	.03972	.26607	.45425
#1	3547.6	2528.3	20141.	4178.7
#2	3540.4	2526.9	20065.	4205.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.074%	94.412%	94.866%	100.13%
Range				

Sample Name: 480-122703-D-6-B Acquired: 8/28/2017 15:11:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.32536**	**.00278**	**5.4695**	**1.1406**
Stddev	.00028	.01793	.00235	.0018	.0028
%RSD	412.20	5.5108	84.740	.03279	.24288
#1	.00027	.31269	.00444	5.4708	1.1426
#2	-.00013	.33804	.00111	5.4683	1.1387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**192.21**	**.00032**	**-.0338**	**.00745**
Stddev	.00005	.43	.00017	.0061	.00008
%RSD	52.110	.22611	53.319	18.10	1.0620
#1	-.00014	192.52	.00020	-.0381	.00740
#2	-.00007	191.90	.00045	-.0295	.00751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01122**	**.04431**	**13.170**	**141.45**	**.09461**
Stddev	.00006	.00021	.029	.20	.00133
%RSD	.55643	.47140	.21907	.13876	1.4103
#1	.01127	.04446	13.150	141.59	.09367
#2	.01118	.04416	13.191	141.31	.09555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122703-D-6-B Acquired: 8/28/2017 15:11:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**140.81**	**.38116**	**-.00012**	**426.08**	**.00991**
Stddev	.06	.00033	.00006	.30	.00019
%RSD	.04110	.08561	49.908	.07044	1.9184
#1	140.77	.38093	-.00016	426.30	.00977
#2	140.85	.38139	-.00008	425.87	.01004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00606**	**11.763**	**-.00132**	**.00043**	**18.322**
Stddev	.00214	.034	.00206	.00573	.036
%RSD	35.281	.29295	155.96	1318.6	.19442
#1	.00757	11.787	.00014	.00449	18.347
#2	.00455	11.739	-.00278	-.00362	18.297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**2.6210**	**.01575**	**-.00274**	**.00218**
Stddev	.00069	.0100	.00049	.00086	.00043
%RSD	36.820	.37973	3.1191	31.271	19.697
#1	.00235	2.6280	.01610	-.00214	.00187
#2	.00138	2.6139	.01540	-.00335	.00248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122703-D-6-B Acquired: 8/28/2017 15:11:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.08519
Stddev	.00199
%RSD	2.3366
#1	.08660
#2	.08379
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3106.7	2357.4	18500.	4140.7
Stddev	3.8	3.7	5.	11.1
%RSD	.12229	.15659	.02832	.26748
#1	3104.0	2354.8	18496.	4132.9
#2	3109.4	2360.0	18503.	4148.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.453%	88.054%	87.299%	98.903%
Range				

Sample Name: 480-122527-B-5-C Acquired: 8/28/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00166**	**.88744**	**.00085**	**.03057**	**.04298**
Stddev	.00004	.01960	.00136	.00077	.00005
%RSD	2.3741	2.2088	159.82	2.5346	.12707
#1	.00163	.87358	.00182	.03112	.04302
#2	.00169	.90130	-.00011	.03002	.04294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**1.9657**	**-.00005**	**-.0086**	**.00022**
Stddev	.00005	.0036	.00005	.0112	.00006
%RSD	94.594	.18385	112.37	130.9	29.342
#1	-.00009	1.9682	-.00001	-.0006	.00026
#2	-.00002	1.9631	-.00008	-.0165	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00035**	**1.2593**	**1.0120**	**-.00142**
Stddev	.00039	.00031	.0080	.0265	.00009
%RSD	91.642	87.284	.63298	2.6175	6.0726
#1	-.00071	.00013	1.2649	1.0307	-.00148
#2	-.00015	.00057	1.2537	.99324	-.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122527-B-5-C Acquired: 8/28/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1693**	**.00298**	**-.00041**	**5.5367**	**.00051**
Stddev	.0133	.00003	.00003	.0064	.00046
%RSD	.61414	1.1125	7.1229	.11496	90.665
#1	2.1787	.00301	-.00043	5.5322	.00083
#2	2.1598	.00296	-.00039	5.5412	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**8.1255**	**.00120**	**.00612**	**2.3902**
Stddev	.00079	.0027	.00093	.00381	.0039
%RSD	64.144	.03376	77.268	62.287	.16296
#1	-.00067	8.1275	.00054	.00343	2.3874
#2	-.00179	8.1236	.00186	.00882	2.3929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.02465**	**.00041**	**-.00137**	**.00208**
Stddev	.00005	.00004	.00012	.00054	.00042
%RSD	51.505	.16229	30.162	39.280	20.295
#1	-.00006	.02462	.00050	-.00175	.00238
#2	-.00014	.02468	.00032	-.00099	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122527-B-5-C Acquired: 8/28/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00231
Stddev	.00064
%RSD	27.480
#1	.00276
#2	.00187
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4041.3	2659.9	21228.	4274.5
Stddev	2.5	1.5	11.	1.1
%RSD	.06174	.05773	.05387	.02654
#1	4043.1	2661.0	21236.	4275.3
#2	4039.6	2658.9	21220.	4273.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.152%	99.355%	100.17%	102.10%
Range				

Sample Name: 480-123261-C-1-A Acquired: 8/28/2017 15:19:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.03099**	**.00470**	**.08377**	**.26062**
Stddev	.00028	.00393	.00166	.00025	.00004
%RSD	73.048	12.667	35.448	.29905	.01441
#1	.00057	.03376	.00352	.08395	.26059
#2	.00018	.02821	.00587	.08360	.26064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**104.84**	**.00024**	**.0134**	**.00004**
Stddev	.00004	.29	.00002	.0067	.00024
%RSD	20.165	.27956	6.5512	49.79	659.15
#1	-.00023	105.05	.00023	.0181	-.00013
#2	-.00017	104.64	.00026	.0087	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.04426**	**2.7610**	**11.787**	**.00290**
Stddev	.00004	.00010	.0053	.030	.00010
%RSD	116.82	.21980	.19304	.25639	3.3686
#1	-.00007	.04433	2.7648	11.809	.00297
#2	-.00001	.04419	2.7573	11.766	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-1-A Acquired: 8/28/2017 15:19:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.001**	**.40389**	**.00046**	**383.25**	**.00048**
Stddev	.042	.00005	.00008	.93	.00044
%RSD	.27857	.01155	16.809	.24288	91.594
#1	14.971	.40385	.00040	383.91	.00017
#2	15.030	.40392	.00051	382.59	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**4.7268**	**-.00076**	**.00288**	**7.2302**
Stddev	.00077	.0008	.00162	.00440	.0266
%RSD	71.439	.01778	212.36	152.66	.36772
#1	.00163	4.7274	-.00191	.00600	7.2490
#2	.00054	4.7262	.00038	-.00023	7.2114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.65850**	**-.00020**	**-.00199**	**.00006**
Stddev	.00066	.00192	.00005	.00040	.00015
%RSD	256.25	.29095	26.609	19.897	248.35
#1	-.00072	.65986	-.00024	-.00171	.00017
#2	.00021	.65715	-.00016	-.00227	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-1-A Acquired: 8/28/2017 15:19:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02177
Stddev	.00002
%RSD	.07998
#1	.02176
#2	.02179
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3289.1	2455.3	19037.	4166.6
Stddev	.7	1.7	2.	20.3
%RSD	.02220	.06923	.01001	.48837
#1	3289.6	2454.1	19036.	4152.2
#2	3288.6	2456.5	19038.	4181.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.883%	91.710%	89.835%	99.520%
Range				

Sample Name: 480-123261-C-2-A Acquired: 8/28/2017 15:22:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.10219**	**.00396**	**.08248**	**.24260**
Stddev	.00062	.00162	.00157	.00006	.00009
%RSD	5025.1	1.5896	39.573	.07856	.03595
#1	-.00043	.10333	.00507	.08243	.24254
#2	.00045	.10104	.00285	.08253	.24266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**102.77**	**.00007**	**-.0095**	**-.00023**
Stddev	.00006	.22	.00002	.0045	.00008
%RSD	38.939	.21021	33.944	47.25	36.035
#1	-.00012	102.92	.00005	-.0063	-.00017
#2	-.00021	102.61	.00008	-.0126	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.03970**	**1.4326**	**11.971**	**.00451**
Stddev	.00007	.00178	.0051	.084	.00009
%RSD	4296.7	4.4823	.35334	.69805	1.8890
#1	-.00005	.04096	1.4362	12.030	.00457
#2	.00005	.03844	1.4290	11.912	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-A Acquired: 8/28/2017 15:22:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.140**	**.18528**	**.00019**	**388.31**	**.00177**
Stddev	.052	.00075	.00015	2.47	.00014
%RSD	.34280	.40477	78.412	.63524	7.7726
#1	15.103	.18475	.00008	390.05	.00187
#2	15.177	.18581	.00029	386.56	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**4.2669**	**-.00082**	**.00114**	**7.0169**
Stddev	.00172	.0037	.00020	.00082	.0228
%RSD	59.709	.08553	23.772	71.410	.32500
#1	.00411	4.2643	-.00096	.00057	7.0330
#2	.00167	4.2695	-.00069	.00172	7.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.65214**	**.00034**	**-.00233**	**.00001**
Stddev	.00014	.00157	.00038	.00058	.00046
%RSD	59.007	.24086	113.91	24.742	4416.7
#1	-.00014	.65325	.00061	-.00274	-.00031
#2	-.00034	.65103	.00007	-.00192	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-A Acquired: 8/28/2017 15:22:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04538
Stddev	.00051
%RSD	1.1165
#1	.04574
#2	.04502
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3280.1	2451.2	19046.	4154.2
Stddev	6.0	3.4	27.	29.3
%RSD	.18392	.13912	.14384	.70581
#1	3284.4	2453.6	19066.	4133.4
#2	3275.8	2448.7	19027.	4174.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.664%	91.557%	89.878%	99.224%
Range				

Sample Name: 480-123261-C-2-ASD@5 Acquired: 8/28/2017 15:26:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.01800**	**.00088**	**.01680**	**.04884**
Stddev	.00019	.00765	.00049	.00007	.00003
%RSD	72.464	42.527	56.140	.41646	.06367
#1	.00040	.01259	.00053	.01685	.04887
#2	.00013	.02341	.00123	.01676	.04882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**20.335**	**-.00003**	**-.0116**	**-.00009**
Stddev	.00009	.008	.00001	.0071	.00006
%RSD	45.619	.04108	33.716	61.31	66.477
#1	-.00026	20.341	-.00004	-.0167	-.00005
#2	-.00013	20.329	-.00002	-.0066	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00779**	**.28451**	**2.4523**	**.00159**
Stddev	.00025	.00003	.00381	.0004	.00299
%RSD	144.70	.38791	1.3402	.01559	188.11
#1	.00000	.00776	.28182	2.4526	-.00052
#2	-.00035	.00781	.28721	2.4520	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-ASD@5 Acquired: 8/28/2017 15:26:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0602**	**.03716**	**-.00016**	**77.484**	**.00020**
Stddev	.0152	.00014	.00043	.480	.00075
%RSD	.49633	.36923	275.79	.61983	370.16
#1	3.0710	.03725	-.00046	77.144	-.00033
#2	3.0495	.03706	.00015	77.824	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.79453**	**.00108**	**.00163**	**1.3777**
Stddev	.00135	.00241	.00046	.00115	.0075
%RSD	1031.0	.30347	42.569	70.867	.54374
#1	.00083	.79282	.00075	.00245	1.3830
#2	-.00109	.79623	.00140	.00081	1.3724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.12910**	**.00006**	**-.00083**	**.00008**
Stddev	.00040	.00004	.00027	.00005	.00054
%RSD	324.42	.03351	442.71	5.6033	661.15
#1	-.00041	.12913	-.00013	-.00086	.00046
#2	.00016	.12907	.00025	-.00079	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-ASD@5 Acquired: 8/28/2017 15:26:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00966
Stddev	.00043
%RSD	4.4799
#1	.00936
#2	.00997
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3675.1	2565.8	20144.	4130.6
Stddev	.5	4.7	56.	12.3
%RSD	.01425	.18129	.27822	.29768
#1	3675.5	2569.1	20104.	4139.3
#2	3674.7	2562.5	20183.	4121.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.258%	95.840%	95.057%	98.662%
Range				

Sample Name: 480-123261-C-2-APDS Acquired: 8/28/2017 15:30:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05272	9.8995	.21857	.28078	.42372
Stddev	.00065	.0908	.00172	.00150	.00028
%RSD	1.2254	.91719	.78860	.53557	.06553
#1	.05227	9.9637	.21735	.27971	.42392
#2	.05318	9.8353	.21979	.28184	.42352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20711	109.32	.21359	-.0208	.20370
Stddev	.00172	.76	.00058	.0122	.00024
%RSD	.83149	.69672	.27153	58.50	.11817
#1	.20833	109.86	.21318	-.0294	.20387
#2	.20589	108.78	.21400	-.0122	.20353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20892	.24316	11.487	21.434	.20452
Stddev	.00074	.00055	.110	.138	.00424
%RSD	.35192	.22803	.95947	.64313	2.0727
#1	.20944	.24355	11.565	21.531	.20752
#2	.20840	.24277	11.409	21.336	.20153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-APDS Acquired: 8/28/2017 15:30:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.645**	**.38252**	**.20193**	**384.86**	**.20819**
Stddev	.049	.00122	.00008	3.01	.00031
%RSD	.19945	.31940	.03940	.78218	.14804
#1	24.679	.38338	.20188	386.99	.20797
#2	24.610	.38165	.20199	382.73	.20841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21577**	**15.175**	**.21329**	**.21604**	**17.062**
Stddev	.00004	.029	.00105	.00099	.097
%RSD	.01692	.19321	.49205	.45888	.56920
#1	.21580	15.154	.21403	.21534	17.131
#2	.21575	15.196	.21255	.21674	16.993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21977**	**.83072**	**.20525**	**.20070**	**.21222**
Stddev	.00011	.00647	.00018	.00260	.00292
%RSD	.05220	.77871	.08653	1.2975	1.3770
#1	.21969	.83529	.20538	.19886	.21429
#2	.21985	.82614	.20513	.20255	.21015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-APDS Acquired: 8/28/2017 15:30:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.25844
Stddev	.00067
%RSD	.26081
#1	.25891
#2	.25796
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3268.4	2471.7	19246.	4162.9
Stddev	2.5	.5	32.	32.5
%RSD	.07723	.01857	.16605	.78033
#1	3266.6	2472.0	19223.	4139.9
#2	3270.2	2471.3	19269.	4185.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.380%	92.323%	90.821%	99.431%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 15:33:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50892**	**24.035**	**.50246**	**.50585**	**.48859**
Stddev	.00121	.121	.00199	.00002	.00184
%RSD	.23754	.50273	.39562	.00370	.37687
#1	.50978	23.949	.50386	.50584	.48729
#2	.50807	24.120	.50105	.50586	.48989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49901**	**24.626**	**.49977**	**-.0084**	**.48866**
Stddev	.00159	.025	.00131	.0027	.00016
%RSD	.31888	.10136	.26232	32.07	.03226
#1	.49788	24.608	.50070	-.0065	.48855
#2	.50013	24.643	.49885	-.0103	.48877
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51337**	**.49617**	**23.763**	**24.974**	**.50692**
Stddev	.00094	.00045	.033	.014	.00305
%RSD	.18347	.09077	.13849	.05725	.60229
#1	.51404	.49585	23.786	24.984	.50476
#2	.51271	.49649	23.740	24.964	.50908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 15:33:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.797**	**.50682**	**.50307**	**25.105**	**.49603**
Stddev	.074	.00108	.00057	.032	.00030
%RSD	.29982	.21353	.11349	.12855	.06063
#1	24.850	.50759	.50347	25.082	.49624
#2	24.745	.50606	.50267	25.128	.49582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49445**	**25.391**	**.50054**	**.50152**	**23.989**
Stddev	.00144	.042	.00333	.00148	.068
%RSD	.29145	.16410	.66477	.29497	.28166
#1	.49344	25.420	.50290	.50047	23.941
#2	.49547	25.361	.49819	.50257	24.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50983**	**.50392**	**.50070**	**.50646**	**.50591**
Stddev	.00010	.00120	.00311	.00261	.00070
%RSD	.01962	.23877	.62069	.51604	.13757
#1	.50990	.50307	.50290	.50831	.50640
#2	.50976	.50478	.49850	.50461	.50541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 15:33:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50610**
Stddev	.00167
%RSD	.32994
#1	.50729
#2	.50492
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3671.6**	**2594.0**	**20378.**	**4176.0**
Stddev	.7	2.4	36.	2.7
%RSD	.01776	.09412	.17600	.06479
#1	3672.1	2592.3	20353.	4177.9
#2	3671.1	2595.7	20404.	4174.1

Sample Name: CCB-4204839 Acquired: 8/28/2017 15:37:05 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00357**	**.00091**	**.00073**	**-.00009**
Stddev	.00111	.00666	.00159	.00011	.00000
%RSD	272.53	186.61	175.26	14.500	3.6756
#1	.00119	-.00827	.00203	.00065	-.00009
#2	-.00038	.00114	-.00022	.00080	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00180**	**-.00026**	**-.0027**	**-.00008**
Stddev	.00002	.00336	.00005	.0211	.00003
%RSD	9.5209	186.73	20.868	771.5	33.032
#1	-.00018	-.00417	-.00022	-.0176	-.00010
#2	-.00016	.00058	-.00030	.0122	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00027**	**-.00576**	**.06072**	**-.00013**
Stddev	.00013	.00018	.00263	.02518	.00105
%RSD	70.160	68.400	45.699	41.462	830.26
#1	.00028	-.00014	-.00762	.07852	.00061
#2	.00009	-.00040	-.00390	.04292	-.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 15:37:05 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00290**	**-.00003**	**-.00019**	**.06745**	**-.00000**
Stddev	.00222	.00002	.00000	.00071	.00024
%RSD	76.692	52.278	.51496	1.0555	123570.
#1	-.00447	-.00004	-.00019	.06695	.00017
#2	-.00133	-.00002	-.00019	.06796	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00456**	**.00112**	**.00323**	**-.00877**
Stddev	.00063	.00150	.00085	.00096	.00162
%RSD	395.33	32.943	75.995	29.673	18.465
#1	.00028	-.00562	.00052	.00391	-.00762
#2	-.00060	-.00350	.00172	.00256	-.00991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00002**	**.00003**	**-.00067**	**.00033**
Stddev	.00001	.00010	.00016	.00026	.00005
%RSD	7.9511	518.62	526.39	38.558	14.024
#1	.00007	.00009	.00014	-.00049	.00036
#2	.00006	-.00005	-.00008	-.00086	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 15:37:05 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00097
Stddev	.00066
%RSD	67.872
#1	.00143
#2	.00050
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4117.1	2661.5	21212.	4222.5
Stddev	6.2	2.8	95.	31.7
%RSD	.14982	.10649	.44930	.75096
#1	4121.5	2663.5	21279.	4200.1
#2	4112.8	2659.5	21144.	4244.9

Sample Name: CCVL-4195955 Acquired: 8/28/2017 15:40:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00582**	**.17822**	**.01456**	**.02104**	**.00196**
Stddev	.00026	.02726	.00205	.00018	.00003
%RSD	4.4384	15.298	14.069	.87649	1.3945
#1	.00563	.19750	.01311	.02091	.00194
#2	.00600	.15894	.01601	.02117	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.50729**	**.00199**	**.0227**	**.00372**
Stddev	.00006	.00224	.00000	.0205	.00016
%RSD	3.0116	.44067	.11825	90.11	4.1938
#1	.00194	.50571	.00200	.0082	.00361
#2	.00203	.50887	.00199	.0372	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00443**	**.00961**	**.04237**	**.57497**	**.03015**
Stddev	.00035	.00107	.00242	.00399	.00081
%RSD	7.8663	11.089	5.7122	.69481	2.6769
#1	.00419	.00886	.04066	.57780	.03072
#2	.00468	.01036	.04408	.57215	.02958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 15:40:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19229**	**.00304**	**.00994**	**1.0839**	**.00959**
Stddev	.00545	.00003	.00011	.0090	.00016
%RSD	2.8343	.99220	1.0935	.83394	1.6485
#1	.19615	.00302	.00986	1.0775	.00948
#2	.18844	.00307	.01002	1.0902	.00971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00814**	**.19428**	**.01803**	**.02737**	**.49958**
Stddev	.00014	.00189	.00058	.00179	.00042
%RSD	1.7027	.97070	3.2224	6.5300	.08431
#1	.00824	.19295	.01845	.02611	.49928
#2	.00804	.19561	.01762	.02863	.49988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00913**	**.00496**	**.00477**	**.01803**	**.00518**
Stddev	.00010	.00002	.00064	.00071	.00000
%RSD	1.1389	.30822	13.339	3.9475	.04727
#1	.00906	.00495	.00432	.01854	.00519
#2	.00920	.00497	.00522	.01753	.00518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 15:40:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01098**
Stddev	.00048
%RSD	4.4057
#1	.01063
#2	.01132
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4087.0**	**2653.1**	**21156.**	**4186.0**
Stddev	1.5	4.2	119.	10.7
%RSD	.03688	.15810	.56273	.25599
#1	4088.1	2650.2	21241.	4178.4
#2	4085.9	2656.1	21072.	4193.6

Sample Name: 480-123261-C-2-B MS Acquired: 8/28/2017 15:44:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05044**	**10.312**	**.21553**	**.28917**	**.43788**
Stddev	.00005	.008	.00286	.00054	.00086
%RSD	.10455	.07622	1.3269	.18832	.19688
#1	.05047	10.306	.21351	.28955	.43849
#2	.05040	10.317	.21755	.28878	.43727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20534**	**114.30**	**.21121**	**-.0229**	**.20244**
Stddev	.00043	.10	.00027	.0168	.00010
%RSD	.20923	.08999	.12692	73.38	.05044
#1	.20565	114.37	.21140	-.0110	.20237
#2	.20504	114.23	.21103	-.0347	.20251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20531**	**.24314**	**11.426**	**22.090**	**.21063**
Stddev	.00135	.00146	.028	.006	.00034
%RSD	.65913	.60125	.24278	.02674	.16374
#1	.20627	.24417	11.446	22.095	.21038
#2	.20436	.24210	11.406	22.086	.21087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-B MS Acquired: 8/28/2017 15:44:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.112**	**.39017**	**.20570**	**401.23**	**.20857**
Stddev	.058	.00052	.00037	.22	.00010
%RSD	.22900	.13261	.17867	.05475	.04898
#1	25.153	.39054	.20596	401.39	.20864
#2	25.071	.38981	.20544	401.08	.20849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21453**	**15.174**	**.20776**	**.21109**	**17.388**
Stddev	.00084	.022	.00048	.00135	.026
%RSD	.39094	.14715	.22991	.64067	.15127
#1	.21512	15.189	.20810	.21204	17.407
#2	.21393	15.158	.20742	.21013	17.370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19698**	**.87583**	**.20413**	**.19955**	**.21264**
Stddev	.00012	.00089	.00047	.00078	.00062
%RSD	.06051	.10118	.22783	.39319	.29271
#1	.19706	.87646	.20446	.20011	.21308
#2	.19689	.87521	.20380	.19900	.21220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-B MS Acquired: 8/28/2017 15:44:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.25703**
Stddev	.00243
%RSD	.94712
#1	.25875
#2	.25531
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3249.7**	**2459.0**	**19133.**	**4161.0**
Stddev	.8	.8	45.	2.6
%RSD	.02495	.03244	.23281	.06279
#1	3249.1	2458.5	19102.	4159.2
#2	3250.3	2459.6	19165.	4162.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.926%	91.851%	90.288%	99.388%
Range				

Sample Name: 480-123261-C-2-C MSD Acquired: 8/28/2017 15:47:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05076**	**10.225**	**.21630**	**.28446**	**.42591**
Stddev	.00103	.031	.00256	.00018	.00286
%RSD	2.0286	.29958	1.1828	.06438	.67086
#1	.05003	10.203	.21810	.28433	.42389
#2	.05149	10.247	.21449	.28459	.42793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20588**	**108.87**	**.21121**	**.0173**	**.20182**
Stddev	.00041	.07	.00025	.0173	.00008
%RSD	.20033	.05980	.11640	100.0	.03923
#1	.20559	108.92	.21104	.0051	.20176
#2	.20617	108.83	.21139	.0295	.20188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20721**	**.24073**	**11.366**	**21.422**	**.21048**
Stddev	.00053	.00181	.015	.021	.00059
%RSD	.25358	.75289	.12862	.09716	.27814
#1	.20758	.23945	11.376	21.407	.21089
#2	.20684	.24201	11.355	21.437	.21006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-C MSD Acquired: 8/28/2017 15:47:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.461**	**.38116**	**.20594**	**380.90**	**.20794**
Stddev	.114	.00176	.00010	.36	.00024
%RSD	.46806	.46225	.04695	.09358	.11630
#1	24.380	.37991	.20587	381.15	.20777
#2	24.542	.38241	.20601	380.64	.20811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21425**	**14.839**	**.20501**	**.21479**	**16.947**
Stddev	.00154	.016	.00094	.00032	.042
%RSD	.72041	.10568	.45891	.15089	.25007
#1	.21315	14.828	.20435	.21502	16.917
#2	.21534	14.850	.20568	.21456	16.977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19591**	**.83686**	**.20503**	**.20025**	**.21348**
Stddev	.00037	.00084	.00095	.00008	.00163
%RSD	.18870	.10010	.46148	.03893	.76140
#1	.19617	.83745	.20436	.20020	.21233
#2	.19565	.83626	.20570	.20031	.21463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-C MSD Acquired: 8/28/2017 15:47:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.25547**
Stddev	.00093
%RSD	.36510
#1	.25481
#2	.25613
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3267.9**	**2464.7**	**19074.**	**4133.5**
Stddev	2.7	1.0	45.	.1
%RSD	.08401	.04028	.23606	.00181
#1	3266.0	2464.0	19106.	4133.5
#2	3269.9	2465.4	19042.	4133.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.369%	92.061%	90.010%	98.731%
Range				

Sample Name: 480-123261-B-3-A Acquired: 8/28/2017 15:51:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.14830**	**.00505**	**.08496**	**.26765**
Stddev	.00055	.00590	.00126	.00001	.00058
%RSD	81.188	3.9815	24.841	.01436	.21600
#1	-.00107	.14413	.00594	.08495	.26725
#2	-.00029	.15248	.00417	.08497	.26806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**108.31**	**.00031**	**-.0089**	**.00002**
Stddev	.00004	.05	.00021	.0178	.00009
%RSD	22.477	.04517	69.363	199.3	401.88
#1	-.00013	108.27	.00046	.0036	.00009
#2	-.00018	108.34	.00016	-.0215	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.06165**	**2.6096**	**12.201**	**.00359**
Stddev	.00093	.00104	.0115	.031	.00073
%RSD	167.60	1.6898	.43926	.25403	20.396
#1	.00010	.06238	2.6015	12.223	.00411
#2	-.00121	.06091	2.6177	12.179	.00307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-B-3-A Acquired: 8/28/2017 15:51:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.576**	**.43762**	**.00061**	**396.83**	**.00183**
Stddev	.004	.00048	.00004	.28	.00002
%RSD	.02680	.11063	6.1921	.06958	1.1168
#1	15.573	.43728	.00059	396.64	.00181
#2	15.578	.43797	.00064	397.03	.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**4.5819**	**-.00044**	**.00013**	**7.4744**
Stddev	.00093	.0002	.00103	.00097	.0192
%RSD	36.649	.00368	234.85	724.98	.25722
#1	.00320	4.5818	-.00117	.00082	7.4608
#2	.00188	4.5820	.00029	-.00055	7.4880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.67769**	**.00044**	**.00004**	**.00057**
Stddev	.00007	.00148	.00075	.00013	.00062
%RSD	13.108	.21859	169.82	325.48	109.25
#1	.00061	.67874	.00097	-.00005	.00013
#2	.00050	.67665	-.00009	.00013	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-B-3-A Acquired: 8/28/2017 15:51:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04429**
Stddev	.00028
%RSD	.63454
#1	.04448
#2	.04409
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3281.4**	**2453.4**	**19050.**	**4137.6**
Stddev	.1	.7	11.	3.6
%RSD	.00392	.03012	.05922	.08733
#1	3281.5	2452.8	19058.	4140.2
#2	3281.4	2453.9	19042.	4135.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.697%	91.639%	89.897%	98.829%
Range				

Sample Name: 480-123261-B-4-A Acquired: 8/28/2017 15:55:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.15285**	**.00785**	**.08208**	**.25470**
Stddev	.00047	.02476	.00267	.00032	.00046
%RSD	303.25	16.202	34.042	.38802	.18116
#1	.00049	.17036	.00974	.08185	.25502
#2	-.00018	.13534	.00596	.08230	.25437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**103.91**	**.00012**	**.0033**	**-.00021**
Stddev	.00002	.12	.00009	.0004	.00011
%RSD	22.681	.11441	76.843	13.37	51.416
#1	-.00007	104.00	.00006	.0030	-.00013
#2	-.00010	103.83	.00019	.0036	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.05137**	**2.4020**	**12.058**	**.00299**
Stddev	.00045	.00168	.0025	.039	.00204
%RSD	944.48	3.2693	.10483	.32297	68.179
#1	.00036	.05256	2.4002	12.086	.00444
#2	-.00027	.05018	2.4038	12.031	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-B-4-A Acquired: 8/28/2017 15:55:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.293**	**.17361**	**.00058**	**391.45**	**.00070**
Stddev	.031	.00030	.00015	.30	.00009
%RSD	.20219	.17208	25.600	.07579	12.308
#1	15.315	.17340	.00047	391.24	.00064
#2	15.271	.17382	.00068	391.66	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**4.2400**	**-.00083**	**.00365**	**7.0878**
Stddev	.00110	.0012	.00066	.00335	.0143
%RSD	97.904	.02926	79.519	91.632	.20145
#1	.00190	4.2409	-.00036	.00602	7.0979
#2	.00035	4.2391	-.00129	.00129	7.0777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.66499**	**-.00029**	**-.00019**	**-.00001**
Stddev	.00062	.00076	.00002	.00009	.00075
%RSD	196.89	.11368	8.4437	45.985	6951.8
#1	.00076	.66552	-.00031	-.00013	-.00054
#2	-.00012	.66445	-.00027	-.00025	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-B-4-A Acquired: 8/28/2017 15:55:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03368
Stddev	.00108
%RSD	3.1987
#1	.03444
#2	.03292
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3277.6	2454.3	19031.	4158.5
Stddev	2.2	.7	28.	20.8
%RSD	.06765	.02947	.14497	.50119
#1	3276.1	2453.8	19011.	4143.8
#2	3279.2	2454.8	19050.	4173.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.604%	91.674%	89.805%	99.328%
Range				

Sample Name: 480-123256-G-4-A Acquired: 8/28/2017 15:58:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.29749**	**.00088**	**.50911**	**.07600**
Stddev	.00043	.03987	.00105	.00043	.00041
%RSD	44.839	13.403	118.18	.08393	.53940
#1	.00126	.26929	.00015	.50941	.07571
#2	.00065	.32568	.00162	.50881	.07629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**178.51**	**.00044**	**.0096**	**.00127**
Stddev	.00004	.45	.00018	.0105	.00005
%RSD	19.730	.25402	39.941	109.5	4.0324
#1	-.00016	178.19	.00032	.0171	.00130
#2	-.00021	178.83	.00057	.0022	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00174**	**.20530**	**9.6637**	**.00377**
Stddev	.00026	.00047	.00256	.0905	.00038
%RSD	93.517	27.260	1.2461	.93639	10.112
#1	-.00046	.00207	.20349	9.5997	.00404
#2	-.00009	.00140	.20711	9.7277	.00350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123256-G-4-A Acquired: 8/28/2017 15:58:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**71.551**	**.24357**	**.00334**	**50.957**	**.00655**
Stddev	.428	.00127	.00012	.261	.00034
%RSD	.59813	.52210	3.6091	.51269	5.1257
#1	71.248	.24267	.00325	50.772	.00679
#2	71.853	.24447	.00342	51.141	.00632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**40.806**	**-.00149**	**.00442**	**5.9453**
Stddev	.00076	.097	.00276	.00166	.1006
%RSD	147.50	.23700	185.36	37.655	1.6913
#1	.00002	40.874	-.00344	.00559	5.8742
#2	-.00105	40.738	.00046	.00324	6.0164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.79064**	**.00496**	**-.00110**	**.00058**
Stddev	.00025	.00258	.00026	.00064	.00049
%RSD	741.29	.32665	5.2410	58.796	84.112
#1	.00021	.78881	.00514	-.00155	.00093
#2	-.00014	.79246	.00477	-.00064	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123256-G-4-A Acquired: 8/28/2017 15:58:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00518
Stddev	.00101
%RSD	19.452
#1	.00446
#2	.00589
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3443.4	2474.4	19601.	4126.3
Stddev	4.5	6.7	115.	12.6
%RSD	.12923	.27068	.58601	.30512
#1	3440.3	2469.7	19682.	4135.2
#2	3446.6	2479.2	19520.	4117.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.631%	92.426%	92.496%	98.559%
Range				

Sample Name: 480-123260-A-6-A Acquired: 8/28/2017 16:02:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.10026**	**.00245**	**.00881**	**.03234**
Stddev	.00117	.00071	.00045	.00029	.00004
%RSD	3004.0	.70733	18.335	3.2550	.13381
#1	-.00087	.10076	.00277	.00902	.03237
#2	.00079	.09976	.00213	.00861	.03231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**44.499**	**-.00011**	**.0003**	**-.00005**
Stddev	.00007	.314	.00006	.0034	.00012
%RSD	42.530	.70521	54.387	1123.	231.59
#1	-.00011	44.277	-.00007	-.0021	.00003
#2	-.00020	44.721	-.00015	.0027	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00044**	**.07671**	**4.7382**	**.00295**
Stddev	.00037	.00051	.00125	.0683	.00025
%RSD	1886.0	116.95	1.6253	1.4406	8.4119
#1	-.00028	-.00008	.07759	4.6899	.00277
#2	.00024	-.00080	.07583	4.7864	.00312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-A-6-A Acquired: 8/28/2017 16:02:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6698**	**.03142**	**.00059**	**14.930**	**.00096**
Stddev	.0225	.00003	.00007	.112	.00049
%RSD	.25980	.09065	12.362	.74845	51.376
#1	8.6539	.03144	.00064	14.851	.00061
#2	8.6857	.03140	.00054	15.009	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**14.777**	**-.00097**	**-.00026**	**6.0626**
Stddev	.00108	.020	.00097	.00018	.0835
%RSD	196.96	.13683	99.762	69.994	1.3782
#1	.00131	14.791	-.00028	-.00013	6.0035
#2	-.00022	14.763	-.00165	-.00038	6.1217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.15935**	**.00419**	**-.00068**	**.00041**
Stddev	.00057	.00107	.00010	.00121	.00001
%RSD	1499.9	.66958	2.3275	178.10	3.3805
#1	-.00044	.15859	.00426	-.00153	.00040
#2	.00036	.16010	.00412	.00018	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-A-6-A Acquired: 8/28/2017 16:02:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00728
Stddev	.00004
%RSD	.53060
#1	.00725
#2	.00731
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3833.9	2588.8	20593.	4219.6
Stddev	8.6	4.8	97.	20.6
%RSD	.22395	.18544	.47224	.48938
#1	3840.0	2592.2	20525.	4234.2
#2	3827.8	2585.4	20662.	4205.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.114%	96.697%	97.179%	100.79%
Range				

Sample Name: 480-123224-C-1-A Acquired: 8/28/2017 16:05:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.11777**	**.00443**	**.23505**	**.01018**
Stddev	.00017	.00812	.00004	.00035	.00004
%RSD	552.35	6.8968	.96591	.14796	.36230
#1	-.00009	.11203	.00440	.23529	.01021
#2	.00015	.12351	.00446	.23480	.01015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**40.484**	**-.00014**	**.0312**	**-.00029**
Stddev	.00006	.150	.00022	.0191	.00017
%RSD	50.139	.37003	155.10	61.16	58.595
#1	-.00007	40.378	.00001	.0177	-.00041
#2	-.00016	40.590	-.00029	.0448	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00025**	**.27084**	**2.0001**	**-.00071**
Stddev	.00033	.00023	.00040	.0193	.00151
%RSD	289.25	91.073	.14677	.96416	212.24
#1	.00012	-.00042	.27056	1.9865	.00036
#2	-.00035	-.00009	.27112	2.0138	-.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123224-C-1-A Acquired: 8/28/2017 16:05:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1650**	**.02352**	**.01339**	**35.895**	**.00066**
Stddev	.0114	.00007	.00023	.215	.00027
%RSD	.35958	.30075	1.6954	.60025	41.762
#1	3.1570	.02347	.01355	35.742	.00046
#2	3.1731	.02357	.01323	36.047	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**18.047**	**-.00074**	**.00265**	**7.3344**
Stddev	.00034	.028	.00003	.00307	.0321
%RSD	35.061	.15319	4.0560	115.70	.43820
#1	.00121	18.067	-.00076	.00048	7.3571
#2	.00073	18.027	-.00072	.00482	7.3116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.10113**	**.00407**	**-.00059**	**.00088**
Stddev	.00025	.00064	.00148	.00035	.00026
%RSD	213.94	.62888	36.398	59.485	29.626
#1	.00006	.10068	.00512	-.00083	.00106
#2	-.00030	.10158	.00303	-.00034	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123224-C-1-A Acquired: 8/28/2017 16:05:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00208
Stddev	.00024
%RSD	11.650
#1	.00225
#2	.00190
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3797.2	2586.8	20568.	4193.4
Stddev	.5	.1	66.	15.2
%RSD	.01392	.00426	.32328	.36332
#1	3797.6	2586.9	20615.	4204.1
#2	3796.8	2586.7	20521.	4182.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.223%	96.624%	97.060%	100.16%
Range				

Sample Name: 480-123224-C-2-A Acquired: 8/28/2017 16:09:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.84083**	**.00110**	**.65925**	**.03431**
Stddev	.00023	.06091	.00098	.00196	.00021
%RSD	65.918	7.2445	89.137	.29730	.60526
#1	-.00019	.79776	.00041	.65786	.03416
#2	-.00051	.88390	.00179	.66063	.03446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**53.183**	**.00003**	**-.0012**	**.00202**
Stddev	.00019	.171	.00013	.0256	.00005
%RSD	118.85	.32209	383.86	2072.	2.5162
#1	-.00003	53.062	.00013	.0169	.00205
#2	-.00030	53.304	-.00006	-.0193	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00224**	**.70957**	**2.4784**	**.00035**
Stddev	.00040	.00011	.00772	.0082	.00120
%RSD	135.29	4.8802	1.0886	.33211	346.81
#1	.00001	.00231	.70411	2.4842	.00119
#2	.00057	.00216	.71503	2.4725	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123224-C-2-A Acquired: 8/28/2017 16:09:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9067**	**1.0582**	**.00077**	**51.845**	**.00160**
Stddev	.0215	.0050	.00030	.067	.00012
%RSD	.24102	.46930	38.589	.12977	7.3734
#1	8.8915	1.0547	.00097	51.798	.00151
#2	8.9219	1.0617	.00056	51.893	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**1.7558**	**.00092**	**.00058**	**7.9607**
Stddev	.00036	.0003	.00053	.00249	.0758
%RSD	22.597	.01562	57.589	426.62	.95171
#1	.00134	1.7560	.00129	.00235	7.9071
#2	.00185	1.7556	.00054	-.00118	8.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.12802**	**.01423**	**-.00074**	**.00150**
Stddev	.00029	.00064	.00109	.00095	.00003
%RSD	100.15	.49916	7.6742	128.00	2.0102
#1	-.00050	.12757	.01346	-.00007	.00152
#2	-.00009	.12847	.01500	-.00141	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123224-C-2-A Acquired: 8/28/2017 16:09:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00426**
Stddev	.00020
%RSD	4.7558
#1	.00412
#2	.00441
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3702.4**	**2575.8**	**20292.**	**4191.2**
Stddev	7.5	3.9	67.	22.4
%RSD	.20151	.15117	.32999	.53432
#1	3707.7	2578.5	20339.	4207.1
#2	3697.1	2573.0	20245.	4175.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.921%	96.211%	95.757%	100.11%
Range				

Sample Name: 480-123274-B-1-A Acquired: 8/28/2017 16:13:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.34566**	**.00291**	**.12803**	**.25238**
Stddev	.00000	.01394	.00062	.00006	.00002
%RSD	.82607	4.0331	21.445	.04965	.00680
#1	-.00052	.35552	.00247	.12808	.25239
#2	-.00053	.33581	.00335	.12799	.25237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**341.03**	**-.00010**	**.0162**	**-.00010**
Stddev	.00000	2.44	.00027	.0004	.00005
%RSD	1.6981	.71486	261.81	2.199	52.269
#1	-.00014	342.75	.00009	.0160	-.00013
#2	-.00014	339.30	-.00030	.0165	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00264**	**-.00346**	**23.578**	**14.084**	**.00187**
Stddev	.00046	.00022	.027	.034	.00067
%RSD	17.240	6.2690	.11442	.24318	35.875
#1	.00232	-.00362	23.559	14.060	.00234
#2	.00297	-.00331	23.597	14.108	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-1-A Acquired: 8/28/2017 16:13:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.065**	**1.5729**	**.00069**	**211.70**	**.00196**
Stddev	.003	.0007	.00018	.24	.00028
%RSD	.00690	.04414	25.422	.11242	14.483
#1	39.063	1.5725	.00057	211.87	.00216
#2	39.067	1.5734	.00082	211.53	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00636**	F **96.262**	**-.00275**	**.00529**	**11.814**
Stddev	.00059	.194	.00056	.00140	.038
%RSD	9.2430	.20110	20.353	26.448	.32005
#1	.00594	96.399	-.00314	.00627	11.841
#2	.00678	96.125	-.00235	.00430	11.788
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**1.6987**	**.01488**	**-.00164**	**.00244**
Stddev	.00059	.0026	.00044	.00113	.00047
%RSD	139.58	.15011	2.9815	68.834	19.294
#1	.00084	1.7005	.01519	-.00244	.00277
#2	.00001	1.6969	.01457	-.00084	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-1-A Acquired: 8/28/2017 16:13:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00517
Stddev	.00060
%RSD	11.535
#1	.00475
#2	.00560
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3235.4	2393.5	18888.	4080.1
Stddev	7.4	6.0	25.	14.4
%RSD	.22864	.24945	.13443	.35236
#1	3240.6	2397.7	18906.	4069.9
#2	3230.1	2389.3	18870.	4090.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.578%	89.403%	89.131%	97.454%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:16:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51171**	**24.188**	**.50227**	**.50728**	**.48605**
Stddev	.00042	.175	.00537	.00054	.00194
%RSD	.08162	.72165	1.0688	.10570	.40008
#1	.51200	24.311	.50607	.50690	.48468
#2	.51141	24.064	.49848	.50766	.48743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50043**	**24.698**	**.50080**	**-.0129**	**.48784**
Stddev	.00271	.144	.00078	.0125	.00004
%RSD	.54063	.58336	.15541	96.52	.00829
#1	.50234	24.799	.50025	-.0217	.48782
#2	.49851	24.596	.50135	-.0041	.48787
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51252**	**.49580**	**23.732**	**25.006**	**.50899**
Stddev	.00294	.00011	.100	.097	.00308
%RSD	.57309	.02319	.41941	.38983	.60608
#1	.51045	.49588	23.802	25.075	.51117
#2	.51460	.49571	23.662	24.937	.50681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:16:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.791**	**.50527**	**.50273**	**25.175**	**.49445**
Stddev	.097	.00041	.00057	.131	.00009
%RSD	.39125	.08077	.11334	.51942	.01840
#1	24.723	.50498	.50233	25.267	.49452
#2	24.860	.50556	.50314	25.082	.49439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49315**	**25.431**	**.50120**	**.50985**	**24.006**
Stddev	.00262	.001	.00110	.00476	.094
%RSD	.53169	.00393	.21977	.93291	.39199
#1	.49500	25.432	.50042	.50649	24.073
#2	.49129	25.430	.50197	.51321	23.940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51070**	**.50654**	**.49995**	**.50581**	**.50524**
Stddev	.00017	.00276	.00043	.00369	.00046
%RSD	.03334	.54460	.08674	.73012	.09170
#1	.51082	.50849	.49964	.50320	.50491
#2	.51058	.50459	.50025	.50842	.50557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:16:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50530**
Stddev	.00325
%RSD	.64220
#1	.50301
#2	.50760
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3678.2**	**2594.2**	**20378.**	**4134.1**
Stddev	4.5	3.3	111.	16.0
%RSD	.12167	.12823	.54648	.38664
#1	3675.0	2591.9	20457.	4122.8
#2	3681.4	2596.6	20299.	4145.4

Sample Name: CCB-4204839 Acquired: 8/28/2017 16:20:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.00238**	**.00248**	**.00021**	**-.00010**
Stddev	.00057	.00466	.00065	.00019	.00001
%RSD	74.390	195.74	25.997	89.588	8.0108
#1	-.00036	.00091	.00294	.00008	-.00009
#2	-.00117	-.00567	.00203	.00034	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00245**	**-.00030**	**.0042**	**-.00002**
Stddev	.00001	.00325	.00006	.0165	.00015
%RSD	6.9370	132.75	21.014	391.1	667.84
#1	-.00015	.00015	-.00025	.0159	.00008
#2	-.00017	.00475	-.00034	-.0075	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00016**	**-.00552**	**.09165**	**-.00036**
Stddev	.00010	.00026	.00033	.01264	.00013
%RSD	62.549	159.33	6.0637	13.789	35.930
#1	.00009	.00002	-.00576	.10059	-.00045
#2	.00023	-.00035	-.00528	.08271	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 16:20:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00356**	**-.00001**	**-.00020**	**.03768**	**.00051**
Stddev	.00400	.00003	.00012	.00375	.00021
%RSD	112.41	300.78	59.043	9.9608	40.565
#1	-.00639	-.00003	-.00028	.03503	.00066
#2	-.00073	.00001	-.00012	.04034	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**-.00311**	**-.00006**	**.00346**	**-.01547**
Stddev	.00044	.00208	.00137	.00305	.00011
%RSD	62.659	66.905	2430.0	87.908	.70778
#1	-.00039	-.00164	.00091	.00562	-.01539
#2	-.00102	-.00458	-.00102	.00131	-.01555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00001**	**.00021**	**-.00170**	**.00007**
Stddev	.00065	.00006	.00027	.00021	.00073
%RSD	146.98	435.56	130.48	12.435	1099.1
#1	-.00091	.00005	.00002	-.00155	-.00045
#2	.00002	-.00003	.00040	-.00185	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 16:20:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00121
Stddev	.00022
%RSD	18.387
#1	.00137
#2	.00105
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4104.1	2656.7	21095.	4105.5
Stddev	.4	.1	40.	1.5
%RSD	.01009	.00486	.19068	.03601
#1	4103.8	2656.6	21123.	4104.4
#2	4104.4	2656.7	21066.	4106.5

Sample Name: CCVL-4195955 Acquired: 8/28/2017 16:23:51 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00546**	**.18803**	**.01681**	**.02080**	**.00200**
Stddev	.00046	.00148	.00187	.00009	.00001
%RSD	8.4990	.78453	11.102	.44075	.56909
#1	.00513	.18907	.01549	.02086	.00200
#2	.00579	.18698	.01813	.02073	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**.49602**	**.00196**	**-.0147**	**.00371**
Stddev	.00002	.00306	.00000	.0029	.00009
%RSD	1.2004	.61667	.17755	19.70	2.3359
#1	.00193	.49386	.00196	-.0126	.00377
#2	.00189	.49818	.00196	-.0167	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	**.01025**	**.04280**	**.56611**	**.02889**
Stddev	.00020	.00027	.00061	.02741	.00020
%RSD	4.7841	2.6796	1.4192	4.8425	.67973
#1	.00425	.01045	.04237	.54672	.02875
#2	.00397	.01006	.04323	.58549	.02903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 16:23:51 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20052**	**.00301**	**.00971**	**1.0576**	**.00962**
Stddev	.00004	.00002	.00017	.0017	.00003
%RSD	.01947	.56663	1.7943	.15665	.26371
#1	.20049	.00300	.00983	1.0564	.00961
#2	.20055	.00302	.00958	1.0588	.00964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00939**	**.19509**	**.01895**	**.02542**	**.51163**
Stddev	.00017	.00372	.00089	.00259	.01724
%RSD	1.7999	1.9089	4.6869	10.193	3.3698
#1	.00951	.19772	.01832	.02359	.49944
#2	.00927	.19246	.01957	.02725	.52382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00927**	**.00506**	**.00466**	**.01906**	**.00557**
Stddev	.00021	.00010	.00084	.00023	.00012
%RSD	2.2305	1.8793	18.020	1.1988	2.2439
#1	.00941	.00499	.00525	.01922	.00566
#2	.00912	.00513	.00406	.01890	.00548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 16:23:51 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01076**
Stddev	.00011
%RSD	1.0056
#1	.01084
#2	.01068
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4074.6**	**2650.4**	**21100.**	**4128.9**
Stddev	1.6	1.9	16.	7.3
%RSD	.03932	.07182	.07495	.17601
#1	4075.7	2649.0	21089.	4123.8
#2	4073.4	2651.7	21111.	4134.1

Sample Name: 480-123274-B-2-A Acquired: 8/28/2017 16:27:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**1.3571**	**.00170**	**.56331**	**.14401**
Stddev	.00065	.0074	.00040	.00006	.00013
%RSD	107.17	.54366	23.862	.01038	.08769
#1	-.00106	1.3623	.00198	.56335	.14392
#2	-.00015	1.3519	.00141	.56326	.14410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**149.05**	**.00003**	**.0146**	**.00082**
Stddev	.00009	.05	.00016	.0015	.00003
%RSD	58.616	.03656	618.55	10.56	3.9447
#1	-.00009	149.09	-.00009	.0135	.00084
#2	-.00022	149.01	.00014	.0157	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00477**	**.00239**	**4.3501**	**11.179**	**.00217**
Stddev	.00034	.00075	.0003	.054	.00020
%RSD	7.0654	31.302	.00722	.48021	9.0527
#1	.00500	.00292	4.3499	11.141	.00230
#2	.00453	.00186	4.3503	11.217	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-2-A Acquired: 8/28/2017 16:27:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.241**	**.42169**	**.00151**	**111.97**	**.00472**
Stddev	.057	.00017	.00013	.32	.00006
%RSD	.21880	.03974	8.6963	.28211	1.3003
#1	26.200	.42157	.00161	111.75	.00468
#2	26.281	.42181	.00142	112.20	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01226**	**16.851**	**-.00053**	**.00079**	**12.621**
Stddev	.00073	.019	.00034	.00283	.008
%RSD	5.9200	.11564	65.086	359.95	.06339
#1	.01277	16.865	-.00077	-.00122	12.627
#2	.01174	16.838	-.00028	.00279	12.615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.65615**	**.06937**	**-.00060**	**.00223**
Stddev	.00023	.00059	.00008	.00159	.00004
%RSD	987.96	.09054	.11369	264.97	1.8457
#1	-.00014	.65573	.06932	-.00173	.00220
#2	.00018	.65657	.06943	.00053	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-2-A Acquired: 8/28/2017 16:27:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01425**
Stddev	.00035
%RSD	2.4868
#1	.01400
#2	.01450
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3469.6**	**2504.7**	**19814.**	**4171.2**
Stddev	7.0	3.8	25.	1.3
%RSD	.20154	.15273	.12375	.03037
#1	3464.7	2502.0	19797.	4172.1
#2	3474.6	2507.4	19832.	4170.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.268%	93.555%	93.503%	99.631%
Range				

Sample Name: 480-123274-B-3-A Acquired: 8/28/2017 16:31:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**1.3633**	**.00260**	**.32333**	**.26225**
Stddev	.00027	.0280	.00131	.00134	.00031
%RSD	67.950	2.0538	50.460	.41314	.12001
#1	.00021	1.3831	.00353	.32239	.26202
#2	.00059	1.3435	.00167	.32428	.26247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**165.35**	**.00005**	**.0180**	**.00061**
Stddev	.00012	.50	.00016	.0009	.00003
%RSD	99.193	.30392	354.21	5.225	4.5575
#1	-.00020	165.70	-.00007	.0173	.00059
#2	-.00003	164.99	.00016	.0187	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00532**	**.00071**	**11.881**	**11.777**	**.00090**
Stddev	.00002	.00016	.058	.076	.00017
%RSD	.34839	23.086	.48548	.64178	19.320
#1	.00533	.00082	11.922	11.724	.00078
#2	.00531	.00059	11.840	11.831	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-3-A Acquired: 8/28/2017 16:31:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.368**	**.82827**	**.00045**	**87.620**	**.00399**
Stddev	.018	.00087	.00025	.027	.00006
%RSD	.08964	.10509	54.738	.03059	1.4282
#1	20.380	.82888	.00027	87.601	.00395
#2	20.355	.82765	.00062	87.639	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00565**	**3.9356**	**-.00208**	**-.00140**	**13.126**
Stddev	.00118	.0041	.00041	.00100	.080
%RSD	20.946	.10358	19.812	71.380	.60647
#1	.00649	3.9385	-.00237	-.00069	13.182
#2	.00481	3.9328	-.00179	-.00210	13.070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.92667**	**.04021**	**-.00040**	**.00323**
Stddev	.00031	.00350	.00263	.00131	.00070
%RSD	80.357	.37819	6.5309	327.77	21.740
#1	.00060	.92915	.04206	-.00133	.00373
#2	.00017	.92419	.03835	.00053	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-3-A Acquired: 8/28/2017 16:31:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00997
Stddev	.00007
%RSD	.73829
#1	.01003
#2	.00992
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3480.3	2513.2	19879.	4162.7
Stddev	4.0	3.5	65.	8.1
%RSD	.11545	.14022	.32948	.19390
#1	3483.1	2515.7	19925.	4168.4
#2	3477.4	2510.7	19833.	4157.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.526%	93.873%	93.807%	99.428%
Range				

Sample Name: 480-123274-B-4-A Acquired: 8/28/2017 16:34:33 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.13894**	**.00223**	**.12223**	**.25973**
Stddev	.00046	.00536	.00157	.00000	.00035
%RSD	113.70	3.8606	70.252	.00350	.13580
#1	-.00074	.13515	.00334	.12223	.25998
#2	-.00008	.14273	.00112	.12222	.25948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**337.09**	**.00007**	**-.0007**	**-.00022**
Stddev	.00005	1.04	.00010	.0194	.00013
%RSD	26.145	.30914	150.15	2906.	57.910
#1	-.00024	337.83	.00014	-.0144	-.00013
#2	-.00016	336.36	-.00000	.0131	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**-.00276**	**20.508**	**13.919**	**-.00099**
Stddev	.00006	.00142	.083	.067	.00047
%RSD	2.9164	51.282	.40261	.47954	47.972
#1	.00219	-.00176	20.450	13.872	-.00132
#2	.00210	-.00376	20.567	13.967	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-4-A Acquired: 8/28/2017 16:34:33 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.617**	**1.4960**	**.00044**	**205.25**	**.00103**
Stddev	.081	.0026	.00001	.94	.00031
%RSD	.20480	.17595	1.9309	.45645	30.548
#1	39.675	1.4979	.00044	204.59	.00081
#2	39.560	1.4941	.00043	205.91	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00417**	**87.151**	**-.00205**	**-.00237**	**11.477**
Stddev	.00209	.047	.00145	.00096	.019
%RSD	50.003	.05372	70.603	40.772	.16850
#1	.00270	87.117	-.00103	-.00168	11.463
#2	.00565	87.184	-.00308	-.00305	11.491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**1.6917**	**.00576**	**-.00173**	**.00132**
Stddev	.00014	.0036	.00005	.00016	.00069
%RSD	353.24	.21428	.80968	9.5460	52.064
#1	.00014	1.6891	.00579	-.00161	.00180
#2	-.00006	1.6943	.00572	-.00184	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-4-A Acquired: 8/28/2017 16:34:33 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00413**
Stddev	.00018
%RSD	4.4811
#1	.00400
#2	.00426
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3256.1**	**2405.0**	**18975.**	**4107.5**
Stddev	3.8	.5	27.	.3
%RSD	.11756	.01936	.14101	.00747
#1	3253.4	2404.7	18993.	4107.3
#2	3258.8	2405.3	18956.	4107.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.081%	89.833%	89.540%	98.109%
Range				

Sample Name: 480-123285-D-1-A Acquired: 8/28/2017 16:38:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.28727**	**.12156**	**11.214**	**.56602**
Stddev	.00029	.00486	.00432	.008	.00103
%RSD	138.81	1.6909	3.5528	.07020	.18200
#1	-.00000	.28383	.12461	11.208	.56675
#2	-.00041	.29070	.11850	11.220	.56529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**122.08**	**.00021**	**-.0281**	**.02760**
Stddev	.00013	.23	.00005	.0052	.00011
%RSD	212.50	.18648	24.093	18.60	.39762
#1	.00003	122.24	.00025	-.0244	.02767
#2	-.00015	121.92	.00017	-.0318	.02752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13148**	**.02761**	**19.399**	**455.99**	**.06442**
Stddev	.00050	.00086	.068	.75	.00104
%RSD	.38408	3.1024	.34812	.16515	1.6150
#1	.13112	.02701	19.447	456.52	.06515
#2	.13183	.02822	19.352	455.45	.06368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-1-A Acquired: 8/28/2017 16:38:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.846**	**.62517**	**.00546**	**1289.8**	**.19249**
Stddev	.034	.00194	.00007	.1	.00106
%RSD	.04266	.31026	1.2091	.00728	.55116
#1	79.822	.62380	.00541	1289.9	.19324
#2	79.870	.62654	.00550	1289.7	.19174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00702**	**19.872**	**.00761**	**.00269**	**13.132**
Stddev	.00035	.003	.00025	.00073	.002
%RSD	4.9747	.01361	3.3364	27.068	.01655
#1	.00727	19.870	.00779	.00321	13.131
#2	.00678	19.874	.00743	.00218	13.134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02854**	**1.0341**	**.14292**	**-.00303**	**.08097**
Stddev	.00047	.0000	.00038	.00133	.00050
%RSD	1.6517	.00236	.26476	43.962	.61854
#1	.02887	1.0341	.14265	-.00208	.08061
#2	.02820	1.0341	.14318	-.00397	.08132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-1-A Acquired: 8/28/2017 16:38:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.09908
Stddev	.00070
%RSD	.70471
#1	.09859
#2	.09957
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2915.4	2317.6	17753.	4152.2
Stddev	1.4	.4	41.	7.1
%RSD	.04656	.01692	.23257	.17158
#1	2914.5	2317.3	17783.	4147.2
#2	2916.4	2317.9	17724.	4157.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.807%	86.568%	83.778%	99.178%
Range				

Sample Name: 480-123285-D-2-A Acquired: 8/28/2017 16:41:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.17782**	**.08171**	**11.558**	**.35043**
Stddev	.00071	.00701	.00086	.009	.00086
%RSD	108.73	3.9441	1.0580	.07515	.24443
#1	-.00015	.18278	.08232	11.552	.35103
#2	-.00116	.17286	.08110	11.564	.34982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**116.92**	**.00024**	**.0042**	**.02777**
Stddev	.00012	.07	.00016	.0201	.00002
%RSD	132.97	.06086	68.126	475.6	.05618
#1	-.00001	116.87	.00012	-.0100	.02778
#2	-.00017	116.97	.00035	.0184	.02775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11294**	**.00605**	**9.4203**	**459.63**	**.06599**
Stddev	.00062	.00100	.0017	.38	.00150
%RSD	.55259	16.481	.01778	.08215	2.2763
#1	.11338	.00534	9.4215	459.90	.06493
#2	.11250	.00675	9.4191	459.37	.06705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-2-A Acquired: 8/28/2017 16:41:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**80.307**	**.32653**	**.00522**	**1309.9**	**.19227**
Stddev	.358	.00065	.00016	.2	.00017
%RSD	.44532	.19902	3.1212	.01506	.08855
#1	80.560	.32699	.00510	1309.8	.19239
#2	80.054	.32607	.00533	1310.0	.19215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00334**	**18.618**	**.00764**	**.00590**	**13.306**
Stddev	.00165	.030	.00218	.00125	.014
%RSD	49.368	.15987	28.563	21.141	.10565
#1	.00451	18.597	.00610	.00502	13.316
#2	.00217	18.640	.00918	.00678	13.296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01957**	**.98226**	**.08859**	**-.00235**	**.06838**
Stddev	.00002	.00407	.00168	.00162	.00052
%RSD	.12766	.41482	1.9020	69.168	.76672
#1	.01955	.97937	.08978	-.00350	.06875
#2	.01959	.98514	.08740	-.00120	.06801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-2-A Acquired: 8/28/2017 16:41:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.06028**
Stddev	.00014
%RSD	.23111
#1	.06018
#2	.06038
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2910.8**	**2307.1**	**17714.**	**4155.6**
Stddev	1.0	.4	99.	4.0
%RSD	.03471	.01753	.56130	.09682
#1	2910.1	2307.4	17643.	4152.7
#2	2911.5	2306.8	17784.	4158.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.695%	86.176%	83.590%	99.257%
Range				

Sample Name: 480-123285-D-3-A Acquired: 8/28/2017 16:45:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.22870**	**.12318**	**11.872**	**.65043**
Stddev	.00054	.02080	.00090	.002	.00222
%RSD	100.05	9.0943	.73215	.01964	.34057
#1	.00016	.21400	.12382	11.874	.64886
#2	.00092	.24341	.12254	11.870	.65200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**131.35**	**.00017**	**-.0119**	**.02872**
Stddev	.00001	.07	.00010	.0084	.00019
%RSD	13.756	.05667	54.910	70.75	.65893
#1	-.00004	131.40	.00011	-.0060	.02885
#2	-.00005	131.30	.00024	-.0179	.02859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15287**	**.02359**	**24.332**	**476.02**	**.06733**
Stddev	.00011	.00087	.034	.05	.00033
%RSD	.07232	3.7071	.14079	.00976	.49280
#1	.15280	.02420	24.356	476.06	.06710
#2	.15295	.02297	24.308	475.99	.06757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-3-A Acquired: 8/28/2017 16:45:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.929**	**.36332**	**.00567**	**1356.0**	**.19984**
Stddev	.275	.00130	.00003	.6	.00023
%RSD	.32416	.35812	.50146	.04216	.11728
#1	85.123	.36424	.00569	1356.4	.19967
#2	84.734	.36240	.00565	1355.6	.20000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00749**	**20.791**	**.00870**	**.00368**	**14.369**
Stddev	.00079	.010	.00024	.00279	.026
%RSD	10.564	.05026	2.7688	75.818	.18441
#1	.00693	20.798	.00853	.00565	14.350
#2	.00805	20.783	.00887	.00171	14.387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03472**	**1.1650**	**.17923**	**-.00347**	**.08988**
Stddev	.00089	.0015	.00132	.00148	.00052
%RSD	2.5720	.12706	.73906	42.690	.57832
#1	.03409	1.1640	.18016	-.00242	.08951
#2	.03535	1.1661	.17829	-.00452	.09025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-3-A Acquired: 8/28/2017 16:45:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.12308
Stddev	.00038
%RSD	.31067
#1	.12335
#2	.12281
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2892.5	2305.8	17778.	4154.9
Stddev	2.6	1.3	21.	6.5
%RSD	.08924	.05445	.11715	.15724
#1	2894.4	2306.7	17763.	4150.3
#2	2890.7	2304.9	17793.	4159.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.252%	86.126%	83.894%	99.242%
Range				

Sample Name: BLANK Acquired: 8/28/2017 16:49:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	**-.00835**	**.00041**	**.02227**	**-.00011**
Stddev	.00073	.01509	.00278	.00173	.00001
%RSD	76.697	180.68	677.01	7.7742	8.1398
#1	-.00148	-.01902	.00238	.02349	-.00010
#2	-.00044	.00232	-.00156	.02104	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00241**	**-.00007**	**.0003**	**-.00007**
Stddev	.00004	.00138	.00001	.0387	.00024
%RSD	38.567	57.046	19.536	15120.	361.35
#1	-.00013	-.00144	-.00006	-.0271	-.00024
#2	-.00008	-.00339	-.00008	.0276	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00001**	**-.00756**	**.37369**	**.00057**
Stddev	.00039	.00034	.00111	.00420	.00076
%RSD	258.84	5861.9	14.739	1.1251	133.69
#1	.00042	-.00024	-.00834	.37666	.00003
#2	-.00012	.00025	-.00677	.37071	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 16:49:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00574**	**-.00004**	**-.00026**	**.21870**	**-.00018**
Stddev	.00749	.00002	.00021	.00494	.00015
%RSD	130.60	55.518	80.751	2.2573	81.654
#1	-.00044	-.00003	-.00011	.22219	-.00029
#2	-.01104	-.00006	-.00042	.21521	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00152**	**-.00064**	**-.00037**	**.09123**
Stddev	.00011	.00243	.00011	.00330	.01682
%RSD	122.92	160.35	17.284	894.10	18.439
#1	-.00001	-.00323	-.00056	.00197	.10313
#2	-.00017	.00020	-.00072	-.00271	.07934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00002**	**.00018**	**-.00061**	**-.00018**
Stddev	.00024	.00001	.00072	.00058	.00017
%RSD	124.51	69.436	407.82	94.355	95.564
#1	-.00036	-.00001	.00068	-.00020	-.00006
#2	-.00002	-.00002	-.00033	-.00102	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 16:49:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00057
Stddev	.00034
%RSD	58.500
#1	.00081
#2	.00034
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4119.4	2668.1	21221.	4152.6
Stddev	3.2	1.2	32.	48.2
%RSD	.07716	.04511	.15011	1.1611
#1	4121.7	2667.3	21243.	4118.5
#2	4117.2	2669.0	21198.	4186.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.05%	99.661%	100.14%	99.187%
Range				

Sample Name: MB 480-373973/1-B Acquired: 8/28/2017 16:52:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00897**	**.00203**	**.01521**	**-.00009**
Stddev	.00031	.01150	.00140	.00025	.00003
%RSD	921.28	128.23	69.002	1.6192	36.576
#1	.00018	.00084	.00104	.01538	-.00011
#2	-.00025	.01710	.00302	.01504	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.02501**	**-.00002**	**.0129**	**.00001**
Stddev	.00011	.00319	.00003	.0288	.00009
%RSD	100.85	12.751	162.65	223.1	1169.5
#1	-.00003	.02727	-.00004	-.0075	-.00006
#2	-.00018	.02276	.00000	.0332	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00060**	**-.00538**	**.24743**	**.00056**
Stddev	.00033	.00032	.00168	.04652	.00042
%RSD	84.000	53.340	31.130	18.803	75.517
#1	-.00016	.00083	-.00420	.28033	.00085
#2	-.00062	.00038	-.00657	.21453	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373973/1-B Acquired: 8/28/2017 16:52:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00296**	**.00016**	**-.00030**	**.13988**	**.00044**
Stddev	.00113	.00000	.00011	.00270	.00042
%RSD	38.227	1.2217	37.571	1.9326	96.279
#1	-.00216	.00016	-.00022	.14179	.00014
#2	-.00376	.00016	-.00038	.13797	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.00339**	**-.00024**	**.00095**	**.01813**
Stddev	.00037	.00171	.00141	.00019	.00274
%RSD	40.547	50.489	575.63	19.708	15.099
#1	-.00064	.00218	-.00124	.00108	.01620
#2	-.00116	.00460	.00075	.00082	.02007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00012**	**-.00016**	**-.00087**	**-.00013**
Stddev	.00021	.00003	.00053	.00066	.00018
%RSD	80.142	27.239	336.95	75.425	138.35
#1	-.00011	.00010	-.00053	-.00041	-.00000
#2	-.00041	.00014	.00022	-.00133	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373973/1-B Acquired: 8/28/2017 16:52:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00597
Stddev	.00070
%RSD	11.653
#1	.00548
#2	.00646
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4141.9	2670.8	21435.	4230.7
Stddev	7.3	3.2	90.	3.1
%RSD	.17669	.12110	.41804	.07308
#1	4147.0	2673.0	21372.	4232.9
#2	4136.7	2668.5	21499.	4228.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.59%	99.759%	101.15%	101.05%
Range				

Sample Name: LCS 480-373973/2-B Acquired: 8/28/2017 16:56:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04679**	**9.9504**	**.19797**	**.21616**	**.20445**
Stddev	.00008	.0785	.00087	.00046	.00033
%RSD	.17545	.78940	.44180	.21359	.16277
#1	.04684	9.8948	.19859	.21648	.20422
#2	.04673	10.006	.19735	.21583	.20469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19966**	**9.8472**	**.20196**	**-.0189**	**.18854**
Stddev	.00107	.0569	.00048	.0042	.00000
%RSD	.53708	.57819	.23970	22.11	.00077
#1	.19891	9.8069	.20162	-.0159	.18854
#2	.20042	9.8874	.20230	-.0218	.18854
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19926**	**.20012**	**9.9557**	**10.161**	**.20550**
Stddev	.00137	.00045	.0535	.003	.00051
%RSD	.68859	.22686	.53710	.02907	.24893
#1	.19829	.19980	9.9178	10.159	.20514
#2	.20023	.20044	9.9935	10.163	.20586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373973/2-B Acquired: 8/28/2017 16:56:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.152**	**.20576**	**.20189**	**10.129**	**.19347**
Stddev	.001	.00019	.00001	.058	.00031
%RSD	.01181	.09198	.00549	.57020	.16169
#1	10.151	.20563	.20188	10.088	.19369
#2	10.153	.20589	.20190	10.170	.19325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20158**	**9.9790**	**.20076**	**.19952**	**10.004**
Stddev	.00101	.0245	.00092	.00119	.071
%RSD	.50159	.24545	.45712	.59513	.70745
#1	.20087	9.9617	.20141	.20036	9.9536
#2	.20230	9.9964	.20011	.19868	10.054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18183**	**.20248**	**.19646**	**.20238**	**.20398**
Stddev	.00011	.00117	.00007	.00037	.00071
%RSD	.05844	.57583	.03765	.18118	.34762
#1	.18175	.20165	.19640	.20212	.20448
#2	.18191	.20330	.19651	.20264	.20348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373973/2-B Acquired: 8/28/2017 16:56:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20616
Stddev	.00040
%RSD	.19263
#1	.20644
#2	.20588
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3888.6	2656.2	21035.	4246.1
Stddev	7.8	5.2	36.	42.7
%RSD	.20061	.19473	.16894	1.0063
#1	3883.1	2652.5	21010.	4276.4
#2	3894.1	2659.8	21060.	4215.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.443%	99.214%	99.264%	101.42%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:59:58 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50993**	**24.021**	**.50062**	**.51312**	**.48736**
Stddev	.00124	.096	.00125	.00047	.00186
%RSD	.24328	.39785	.24901	.09253	.38069
#1	.50905	23.953	.50150	.51278	.48605
#2	.51080	24.089	.49974	.51345	.48867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50021**	**24.627**	**.50037**	**-.0142**	**.49018**
Stddev	.00093	.002	.00016	.0373	.00098
%RSD	.18597	.00960	.03182	262.1	.20013
#1	.50087	24.625	.50048	-.0406	.48948
#2	.49956	24.629	.50026	.0121	.49087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51440**	**.49641**	**23.803**	**25.323**	**.50817**
Stddev	.00064	.00154	.007	.122	.00041
%RSD	.12463	.31088	.02954	.48286	.08129
#1	.51394	.49532	23.798	25.410	.50788
#2	.51485	.49750	23.808	25.237	.50846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:59:58 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.874**	**.50783**	**.50130**	**25.206**	**.49811**
Stddev	.137	.00198	.00067	.012	.00038
%RSD	.55206	.39027	.13449	.04700	.07712
#1	24.777	.50643	.50178	25.214	.49838
#2	24.971	.50923	.50082	25.197	.49783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49510**	**25.372**	**.49996**	**.50408**	**24.005**
Stddev	.00116	.020	.00335	.00521	.066
%RSD	.23463	.07818	.67071	1.0343	.27483
#1	.49592	25.386	.49759	.50040	23.958
#2	.49428	25.358	.50233	.50777	24.051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51159**	**.50294**	**.50280**	**.50650**	**.50807**
Stddev	.00005	.00064	.00061	.00107	.00067
%RSD	.01074	.12656	.12116	.21087	.13155
#1	.51155	.50249	.50237	.50725	.50760
#2	.51163	.50339	.50323	.50574	.50854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:59:58 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50949**
Stddev	.00218
%RSD	.42708
#1	.50795
#2	.51102
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3688.8**	**2613.5**	**20451.**	**4122.4**
Stddev	.6	4.2	84.	7.6
%RSD	.01741	.15896	.40848	.18348
#1	3688.3	2610.5	20510.	4117.1
#2	3689.2	2616.4	20392.	4127.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:03:26 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.01019**	**.00025**	**.00584**	**-.00011**
Stddev	.00072	.01587	.00124	.00038	.00000
%RSD	95.071	155.69	494.64	6.5187	2.0954
#1	.00025	-.00103	-.00062	.00557	-.00011
#2	.00127	.02141	.00112	.00611	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00054**	**-.00026**	**.0233**	**-.00001**
Stddev	.00001	.00141	.00011	.0150	.00006
%RSD	7.9665	261.07	41.646	64.28	525.56
#1	-.00015	.00153	-.00018	.0339	-.00005
#2	-.00017	-.00046	-.00033	.0127	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00046**	**-.00537**	**.11479**	**.00062**
Stddev	.00019	.00032	.00106	.01204	.00055
%RSD	945.07	70.920	19.744	10.486	89.468
#1	.00016	.00068	-.00612	.12330	.00101
#2	-.00012	.00023	-.00462	.10627	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:03:26 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00379**	**-.00004**	**-.00020**	**.07386**	**.00027**
Stddev	.00284	.00004	.00006	.00543	.00017
%RSD	74.882	91.593	30.063	7.3520	62.671
#1	-.00580	-.00001	-.00016	.07002	.00039
#2	-.00178	-.00007	-.00024	.07770	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**-.00416**	**-.00021**	**.00205**	**.00329**
Stddev	.00089	.00274	.00169	.00110	.00202
%RSD	73.595	65.992	793.53	53.632	61.157
#1	-.00183	-.00610	.00098	.00127	.00187
#2	-.00058	-.00222	-.00141	.00282	.00472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.00006**	**-.00009**	**.00027**	**.00025**
Stddev	.00013	.00005	.00007	.00007	.00023
%RSD	41.818	75.794	72.616	26.067	93.082
#1	-.00040	-.00010	-.00004	.00022	.00008
#2	-.00022	-.00003	-.00014	.00032	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:03:26 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00002**
Stddev	.00037
%RSD	2055.4
#1	-.00028
#2	.00024
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4117.4**	**2666.0**	**21265.**	**4172.2**
Stddev	5.9	4.1	41.	66.3
%RSD	.14325	.15519	.19129	1.5890
#1	4121.6	2668.9	21236.	4125.3
#2	4113.2	2663.1	21294.	4219.1

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:07:06 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.18124**	**.01348**	**.02499**	**.00198**
Stddev	.00076	.00887	.00118	.00027	.00002
%RSD	13.363	4.8933	8.7765	1.0787	1.0646
#1	.00516	.18752	.01431	.02518	.00199
#2	.00623	.17497	.01264	.02480	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**.49137**	**.00202**	**.0301**	**.00375**
Stddev	.00002	.00260	.00019	.0018	.00013
%RSD	1.1463	.52831	9.4496	5.813	3.5568
#1	.00197	.48953	.00189	.0289	.00366
#2	.00194	.49320	.00216	.0314	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**.00959**	**.04150**	**.64163**	**.03166**
Stddev	.00126	.00015	.00203	.02280	.00048
%RSD	30.013	1.5519	4.8794	3.5538	1.5120
#1	.00508	.00969	.04294	.62550	.03132
#2	.00330	.00948	.04007	.65775	.03200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:07:06 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19932**	**.00296**	**.00969**	**1.0749**	**.00955**
Stddev	.00108	.00007	.00019	.0067	.00016
%RSD	.53977	2.4524	1.9962	.62249	1.6301
#1	.20009	.00291	.00983	1.0797	.00967
#2	.19856	.00301	.00956	1.0702	.00944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00907**	**.19334**	**.01951**	**.02791**	**.49107**
Stddev	.00051	.00261	.00049	.00137	.00436
%RSD	5.6472	1.3494	2.5353	4.9151	.88832
#1	.00870	.19519	.01986	.02694	.48799
#2	.00943	.19150	.01916	.02888	.49416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00949**	**.00499**	**.00491**	**.01904**	**.00556**
Stddev	.00008	.00011	.00019	.00112	.00044
%RSD	.84445	2.1707	3.8564	5.8564	7.9823
#1	.00955	.00492	.00504	.01983	.00524
#2	.00943	.00507	.00478	.01825	.00587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:07:06 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01124
Stddev	.00000
%RSD	.02425
#1	.01125
#2	.01124
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4097.4	2668.1	21280.	4184.1
Stddev	1.3	1.1	10.	13.5
%RSD	.03285	.04161	.04677	.32375
#1	4098.4	2667.3	21287.	4193.7
#2	4096.5	2668.9	21273.	4174.5

Sample Name: 480-123149-A-9-B Acquired: 8/28/2017 17:10:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.07964**	**.01700**	**.01011**	**.00465**
Stddev	.00027	.01229	.00029	.00001	.00006
%RSD	48.143	15.436	1.6933	.06132	1.2841
#1	-.00075	.07095	.01720	.01011	.00469
#2	-.00037	.08834	.01679	.01012	.00461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**14.922**	**-.00003**	**.0053**	**.00029**
Stddev	.00003	.034	.00007	.0046	.00006
%RSD	11.078	.22997	238.50	87.35	20.130
#1	-.00026	14.898	.00002	.0085	.00025
#2	-.00022	14.946	-.00008	.0020	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00505**	**.00116**	**.03285**	**1.5730**	**-.00095**
Stddev	.00056	.00050	.00118	.0157	.00018
%RSD	10.999	43.171	3.6024	.99649	18.957
#1	.00466	.00152	.03369	1.5619	-.00082
#2	.00545	.00081	.03201	1.5841	-.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-B Acquired: 8/28/2017 17:10:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1477**	**.14248**	**.02276**	**13.231**	**.00763**
Stddev	.0091	.00101	.00002	.046	.00002
%RSD	.28975	.70660	.08368	.34569	.23724
#1	3.1542	.14319	.02274	13.199	.00764
#2	3.1413	.14177	.02277	13.264	.00762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**4.3911**	**.00166**	**.00268**	**6.0756**
Stddev	.00077	.0079	.00018	.00196	.0374
%RSD	80.913	.17913	10.880	73.236	.61563
#1	.00151	4.3966	.00153	.00129	6.0491
#2	.00041	4.3855	.00179	.00407	6.1020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.05287**	**.00017**	**-.00035**	**.00238**
Stddev	.00058	.00015	.00017	.00007	.00024
%RSD	111.27	.27898	98.097	21.048	9.9060
#1	-.00094	.05276	.00029	-.00030	.00221
#2	-.00011	.05297	.00005	-.00040	.00254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-B Acquired: 8/28/2017 17:10:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01468
Stddev	.00024
%RSD	1.6453
#1	.01485
#2	.01451
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3966.2	2646.2	21041.	4187.7
Stddev	4.7	2.4	74.	5.8
%RSD	.11751	.09119	.35317	.13890
#1	3962.9	2644.5	20988.	4183.6
#2	3969.5	2647.9	21093.	4191.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.327%	98.843%	99.289%	100.02%
Range				

Sample Name: 480-123149-A-9-BSD@5 Acquired: 8/28/2017 17:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.02582**	**.00489**	**.00484**	**.00088**
Stddev	.00052	.00161	.00192	.00005	.00001
%RSD	94.595	6.2198	39.199	1.0427	.81021
#1	-.00092	.02696	.00354	.00488	.00087
#2	-.00018	.02469	.00625	.00481	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**2.9852**	**-.00011**	**.0108**	**.00001**
Stddev	.00008	.0048	.00008	.0130	.00001
%RSD	67.218	.16212	73.104	119.6	111.09
#1	-.00006	2.9886	-.00005	.0017	.00000
#2	-.00017	2.9818	-.00016	.0200	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.00022**	**.00031**	**.36887**	**-.00133**
Stddev	.00036	.00077	.00222	.00328	.00069
%RSD	43.529	352.48	707.15	.88940	51.753
#1	.00108	-.00033	.00188	.37119	-.00085
#2	.00057	.00076	-.00126	.36655	-.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-BSD@5 Acquired: 8/28/2017 17:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.61711**	**.02862**	**.00425**	**2.6998**	**.00135**
Stddev	.00096	.00020	.00036	.0253	.00006
%RSD	.15546	.68661	8.5299	.93816	4.6665
#1	.61779	.02848	.00399	2.7177	.00131
#2	.61644	.02876	.00450	2.6819	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00092**	**.85208**	**.00025**	**.00131**	**1.2122**
Stddev	.00040	.00139	.00142	.00114	.0036
%RSD	43.796	.16256	575.48	86.601	.29924
#1	-.00120	.85306	-.00076	.00212	1.2096
#2	-.00063	.85110	.00125	.00051	1.2148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.01054**	**-.00039**	**-.00083**	**.00098**
Stddev	.00041	.00013	.00028	.00129	.00059
%RSD	1352.3	1.2619	73.567	156.26	60.308
#1	.00026	.01064	-.00059	.00009	.00139
#2	-.00032	.01045	-.00019	-.00174	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-BSD@5 Acquired: 8/28/2017 17:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00358
Stddev	.00045
%RSD	12.426
#1	.00327
#2	.00390
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4058.7	2647.3	21036.	4165.4
Stddev	4.8	3.5	23.	15.3
%RSD	.11776	.13126	.11130	.36841
#1	4055.3	2644.9	21053.	4154.5
#2	4062.1	2649.8	21020.	4176.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.573%	98.884%	99.269%	99.491%
Range				

Sample Name: 480-123149-A-9-BPDS Acquired: 8/28/2017 17:17:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05122**	**10.364**	**.21913**	**.22057**	**.21185**
Stddev	.00019	.012	.00004	.00022	.00083
%RSD	.37133	.11691	.01862	.09830	.39330
#1	.05109	10.355	.21910	.22073	.21126
#2	.05136	10.373	.21916	.22042	.21244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20486**	**24.369**	**.20776**	**-.0094**	**.19313**
Stddev	.00047	.092	.00005	.0229	.00015
%RSD	.22911	.37763	.02339	244.8	.07705
#1	.20519	24.434	.20772	.0068	.19323
#2	.20453	24.304	.20779	-.0256	.19302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21320**	**.20428**	**10.173**	**11.809**	**.21124**
Stddev	.00046	.00095	.019	.032	.00100
%RSD	.21559	.46363	.18424	.27050	.47517
#1	.21287	.20361	10.186	11.786	.21195
#2	.21352	.20495	10.160	11.832	.21053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-BPDS Acquired: 8/28/2017 17:17:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.365**	**.34219**	**.22401**	**23.073**	**.20252**
Stddev	.039	.00097	.00046	.034	.00014
%RSD	.29467	.28281	.20546	.14597	.07002
#1	13.337	.34151	.22369	23.097	.20262
#2	13.393	.34287	.22434	23.049	.20242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20633**	**14.521**	**.21064**	**.20939**	**16.063**
Stddev	.00006	.013	.00123	.00628	.065
%RSD	.03130	.08904	.58482	2.9975	.40767
#1	.20628	14.512	.21151	.21383	16.109
#2	.20637	14.530	.20977	.20495	16.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20463**	**.25929**	**.20289**	**.20789**	**.21059**
Stddev	.00041	.00013	.00002	.00048	.00011
%RSD	.20141	.04835	.01228	.22923	.05160
#1	.20433	.25921	.20287	.20822	.21067
#2	.20492	.25938	.20291	.20755	.21051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-BPDS Acquired: 8/28/2017 17:17:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21906
Stddev	.00071
%RSD	.32638
#1	.21957
#2	.21855
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3801.3	2629.7	20729.	4212.6
Stddev	1.7	1.3	36.	9.6
%RSD	.04585	.04864	.17295	.22702
#1	3802.5	2630.6	20755.	4205.8
#2	3800.1	2628.8	20704.	4219.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.322%	98.225%	97.821%	100.62%
Range				

Sample Name: 480-123149-A-9-C MS Acquired: 8/28/2017 17:21:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04838**	**10.192**	**.22146**	**.21758**	**.20994**
Stddev	.00187	.073	.00034	.00025	.00015
%RSD	3.8584	.71436	.15446	.11592	.06988
#1	.04970	10.243	.22170	.21776	.21004
#2	.04706	10.140	.22121	.21741	.20984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20516**	**25.210**	**.20841**	**-.0015**	**.19668**
Stddev	.00037	.074	.00007	.0030	.00008
%RSD	.18053	.29545	.03337	194.8	.04075
#1	.20542	25.263	.20836	.0006	.19663
#2	.20490	25.158	.20846	-.0037	.19674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21139**	**.20670**	**10.250**	**11.646**	**.20683**
Stddev	.00133	.00046	.033	.033	.00076
%RSD	.62864	.22414	.31787	.28059	.36856
#1	.21045	.20637	10.273	11.623	.20630
#2	.21233	.20702	10.227	11.669	.20737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-C MS Acquired: 8/28/2017 17:21:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.562**	**.35222**	**.23147**	**23.635**	**.20916**
Stddev	.031	.00001	.00075	.084	.00006
%RSD	.23021	.00164	.32549	.35654	.02998
#1	13.584	.35221	.23200	23.694	.20911
#2	13.540	.35222	.23094	23.575	.20920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20818**	**14.791**	**.20359**	**.20768**	**16.308**
Stddev	.00190	.010	.00132	.00314	.024
%RSD	.91402	.06940	.64893	1.5115	.14562
#1	.20684	14.784	.20266	.20546	16.325
#2	.20953	14.799	.20453	.20990	16.292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18778**	**.25846**	**.20475**	**.20866**	**.21443**
Stddev	.00017	.00075	.00108	.00264	.00025
%RSD	.09172	.29044	.52721	1.2638	.11502
#1	.18766	.25899	.20398	.21052	.21460
#2	.18790	.25793	.20551	.20679	.21425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-C MS Acquired: 8/28/2017 17:21:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21440**
Stddev	.00111
%RSD	.51758
#1	.21361
#2	.21518
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3791.1	2639.1	20856.	4229.1
Stddev	4.0	5.4	41.	19.0
%RSD	.10516	.20488	.19854	.44891
#1	3788.3	2635.2	20885.	4215.7
#2	3794.0	2642.9	20827.	4242.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.076%	98.575%	98.419%	101.01%
Range				

Sample Name: 480-123149-A-9-D MSD Acquired: 8/28/2017 17:24:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04743**	**10.124**	**.21926**	**.21569**	**.20984**
Stddev	.00075	.026	.00037	.00047	.00008
%RSD	1.5731	.25701	.16774	.21654	.03623
#1	.04795	10.106	.21952	.21536	.20990
#2	.04690	10.143	.21900	.21602	.20979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20451**	**24.902**	**.20577**	**-.0192**	**.19356**
Stddev	.00064	.038	.00008	.0351	.00013
%RSD	.31337	.15405	.03842	182.5	.06542
#1	.20496	24.929	.20571	-.0441	.19365
#2	.20405	24.875	.20582	.0056	.19347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20799**	**.20707**	**10.181**	**11.675**	**.20624**
Stddev	.00023	.00004	.021	.024	.00078
%RSD	.10942	.01735	.20820	.20496	.37653
#1	.20783	.20709	10.166	11.658	.20679
#2	.20815	.20704	10.196	11.692	.20569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-D MSD Acquired: 8/28/2017 17:24:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.482**	**.35083**	**.22813**	**23.373**	**.20588**
Stddev	.026	.00031	.00011	.019	.00049
%RSD	.19018	.08775	.04915	.08171	.24017
#1	13.464	.35061	.22821	23.386	.20553
#2	13.500	.35104	.22805	23.359	.20623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20653**	**14.573**	**.20180**	**.20476**	**16.130**
Stddev	.00011	.022	.00098	.00017	.053
%RSD	.05184	.14854	.48584	.08180	.32789
#1	.20660	14.588	.20250	.20488	16.167
#2	.20645	14.558	.20111	.20464	16.093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18590**	**.25609**	**.20063**	**.20543**	**.20992**
Stddev	.00034	.00107	.00027	.00052	.00055
%RSD	.18338	.41814	.13485	.25108	.26042
#1	.18566	.25685	.20082	.20579	.21031
#2	.18615	.25534	.20044	.20506	.20954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-D MSD Acquired: 8/28/2017 17:24:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21341
Stddev	.00019
%RSD	.08938
#1	.21354
#2	.21327
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3792.3	2637.7	20771.	4196.0
Stddev	3.5	.4	63.	7.4
%RSD	.09341	.01446	.30195	.17578
#1	3794.8	2637.5	20816.	4201.3
#2	3789.8	2638.0	20727.	4190.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.104%	98.526%	98.018%	100.22%
Range				

Sample Name: 480-123209-A-3-B Acquired: 8/28/2017 17:28:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.01454**	**.01490**	**.02291**	**.02581**
Stddev	.00029	.00139	.00126	.00014	.00008
%RSD	119.98	9.5304	8.4570	.61874	.31775
#1	.00004	.01552	.01401	.02301	.02587
#2	.00044	.01356	.01579	.02281	.02575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**27.936**	**.00004**	**-.0048**	**.00008**
Stddev	.00001	.133	.00017	.0313	.00005
%RSD	7.4324	.47652	476.87	649.5	66.703
#1	-.00015	28.031	.00016	.0173	.00012
#2	-.00017	27.842	-.00009	-.0269	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00105**	**.20268**	**3.9183**	**.00245**
Stddev	.00049	.00050	.00431	.0131	.00088
%RSD	275.62	47.766	2.1272	.33356	36.061
#1	-.00017	.00070	.20573	3.9090	.00308
#2	.00052	.00141	.19963	3.9275	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123209-A-3-B Acquired: 8/28/2017 17:28:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9454**	**.51662**	**.00309**	**24.094**	**.00314**
Stddev	.0226	.00192	.00000	.139	.00046
%RSD	.45674	.37126	.15692	.57520	14.681
#1	4.9614	.51798	.00309	24.192	.00346
#2	4.9294	.51526	.00309	23.996	.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**11.243**	**.00041**	**.00302**	**8.5630**
Stddev	.00081	.040	.00091	.00063	.0238
%RSD	176.75	.35941	222.29	20.946	.27806
#1	.00103	11.272	-.00024	.00347	8.5799
#2	-.00011	11.215	.00106	.00257	8.5462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.19180**	**-.00006**	**-.00066**	**.00014**
Stddev	.00013	.00028	.00011	.00042	.00029
%RSD	65.666	.14584	175.85	63.634	209.85
#1	-.00030	.19200	-.00014	-.00036	-.00007
#2	-.00011	.19160	.00002	-.00096	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123209-A-3-B Acquired: 8/28/2017 17:28:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00750
Stddev	.00016
%RSD	2.1268
#1	.00761
#2	.00739
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3860.7	2614.4	20697.	4205.4
Stddev	10.7	8.8	82.	30.5
%RSD	.27629	.33845	.39850	.72621
#1	3853.2	2608.1	20639.	4183.8
#2	3868.3	2620.6	20755.	4227.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.766%	97.652%	97.668%	100.45%
Range				

Sample Name: 480-123215-L-1-B Acquired: 8/28/2017 17:31:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.01615**	**.00013**	**.21503**	**.04013**
Stddev	.00087	.01049	.00198	.00002	.00026
%RSD	232.74	64.971	1515.0	.00720	.64416
#1	.00099	.00873	.00153	.21502	.03994
#2	-.00024	.02356	-.00127	.21504	.04031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**156.56**	**.00023**	**.0093**	**.00066**
Stddev	.00000	.17	.00002	.0112	.00010
%RSD	2.6199	.10690	6.8245	119.9	15.619
#1	-.00018	156.68	.00024	.0173	.00073
#2	-.00018	156.44	.00022	.0014	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00065**	**.00583**	**.39738**	**-.00024**
Stddev	.00037	.00244	.00019	.07652	.00060
%RSD	244.25	374.97	3.1775	19.255	253.82
#1	-.00041	-.00107	.00570	.34328	.00019
#2	.00011	.00237	.00596	.45149	-.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-L-1-B Acquired: 8/28/2017 17:31:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.297**	**.03086**	**.00248**	**16.691**	**.00393**
Stddev	.197	.00015	.00020	.008	.00054
%RSD	.47645	.50088	7.9722	.04506	13.610
#1	41.158	.03075	.00234	16.697	.00431
#2	41.436	.03096	.00262	16.686	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**60.898**	**-.00045**	**.00077**	**5.6479**
Stddev	.00023	.023	.00117	.00065	.0034
%RSD	38.518	.03839	259.29	83.969	.05991
#1	.00044	60.914	-.00127	.00123	5.6503
#2	.00076	60.881	.00037	.00031	5.6455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.62555**	**.00027**	**.00044**	**.00019**
Stddev	.00054	.00014	.00015	.00018	.00011
%RSD	898.16	.02180	57.334	40.846	60.516
#1	-.00032	.62565	.00038	.00057	.00027
#2	.00044	.62545	.00016	.00032	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-L-1-B Acquired: 8/28/2017 17:31:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01099**
Stddev	.00019
%RSD	1.7689
#1	.01086
#2	.01113
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3585.9**	**2509.5**	**19991.**	**4134.9**
Stddev	6.3	6.4	95.	3.1
%RSD	.17598	.25415	.47717	.07577
#1	3590.4	2514.0	20058.	4132.6
#2	3581.4	2505.0	19923.	4137.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.091%	93.737%	94.336%	98.763%
Range				

Sample Name: 480-123215-K-2-B Acquired: 8/28/2017 17:35:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.01843**	**.00006**	**.18389**	**.06617**
Stddev	.00048	.00269	.00220	.00015	.00022
%RSD	74.159	14.617	3794.3	.07992	.33997
#1	.00099	.01652	-.00150	.18399	.06633
#2	.00031	.02033	.00161	.18378	.06601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**139.35**	**.00025**	**.0176**	**-.00017**
Stddev	.00005	.22	.00003	.0151	.00014
%RSD	37.220	.15976	11.414	85.81	84.285
#1	-.00017	139.51	.00027	.0283	-.00007
#2	-.00010	139.19	.00023	.0069	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00223**	**-.00040**	**1.4567**	**.00340**
Stddev	.00021	.00019	.00121	.0240	.00060
%RSD	67.298	8.4481	299.83	1.6447	17.580
#1	-.00046	.00209	.00045	1.4397	.00383
#2	-.00016	.00236	-.00125	1.4736	.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-K-2-B Acquired: 8/28/2017 17:35:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.664**	**.01097**	**.00224**	**23.493**	**.00351**
Stddev	.032	.00002	.00016	.017	.00070
%RSD	.09254	.17755	6.9483	.07254	19.810
#1	34.687	.01098	.00235	23.505	.00302
#2	34.642	.01095	.00213	23.480	.00400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**30.587**	**-.00206**	**-.00209**	**7.4650**
Stddev	.00019	.055	.00003	.00629	.0325
%RSD	18.200	.17989	1.6443	301.11	.43562
#1	.00093	30.626	-.00208	.00236	7.4880
#2	.00120	30.548	-.00203	-.00654	7.4420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.66199**	**.00000**	**-.00064**	**.00036**
Stddev	.00017	.00074	.00018	.00074	.00025
%RSD	92.623	.11231	5282.8	116.73	67.546
#1	-.00031	.66252	-.00012	-.00011	.00019
#2	-.00006	.66147	.00013	-.00116	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-K-2-B Acquired: 8/28/2017 17:35:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01343**
Stddev	.00043
%RSD	3.1751
#1	.01373
#2	.01313
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3596.3**	**2526.8**	**20155.**	**4176.2**
Stddev	5.2	2.5	23.	19.4
%RSD	.14521	.10023	.11366	.46333
#1	3600.0	2528.6	20139.	4162.5
#2	3592.6	2525.0	20171.	4189.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.344%	94.383%	95.109%	99.750%
Range				

Sample Name: 480-123215-L-3-B Acquired: 8/28/2017 17:38:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.01412**	**.00241**	**.09649**	**.04413**
Stddev	.00041	.00140	.00304	.00046	.00009
%RSD	201.97	9.9299	126.20	.47606	.20573
#1	.00009	.01312	.00026	.09617	.04406
#2	-.00049	.01511	.00456	.09682	.04419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**180.19**	**.00033**	**.0231**	**.00004**
Stddev	.00008	1.38	.00007	.0007	.00013
%RSD	38.688	.76399	20.525	3.200	315.08
#1	-.00026	181.16	.00029	.0225	.00014
#2	-.00015	179.22	.00038	.0236	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00235**	**-.00307**	**.54432**	**-.00296**
Stddev	.00032	.00032	.00015	.00848	.00088
%RSD	76.615	13.542	5.0341	1.5588	29.567
#1	-.00019	.00257	-.00318	.53832	-.00358
#2	-.00064	.00212	-.00296	.55032	-.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-L-3-B Acquired: 8/28/2017 17:38:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.362**	**.02171**	**.00090**	**13.757**	**.00247**
Stddev	.050	.00006	.00022	.120	.00044
%RSD	.10589	.27564	24.433	.87423	17.871
#1	47.398	.02167	.00074	13.842	.00216
#2	47.327	.02175	.00105	13.672	.00279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**66.684**	**.00041**	**.00063**	**6.0653**
Stddev	.00051	.063	.00108	.00386	.0593
%RSD	70.743	.09451	266.74	614.02	.97797
#1	-.00036	66.640	-.00036	-.00210	6.1072
#2	-.00108	66.729	.00117	.00336	6.0233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.58952**	**.00020**	**-.00198**	**.00063**
Stddev	.00022	.00539	.00007	.00159	.00043
%RSD	503.48	.91493	33.883	80.679	68.448
#1	.00011	.59333	.00025	-.00085	.00094
#2	-.00020	.58571	.00015	-.00310	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-L-3-B Acquired: 8/28/2017 17:38:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00747
Stddev	.00031
%RSD	4.1925
#1	.00769
#2	.00725
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3533.8	2480.1	19644.	4104.7
Stddev	7.9	.0	17.	37.2
%RSD	.22448	.00060	.08601	.90732
#1	3528.2	2480.1	19632.	4078.4
#2	3539.4	2480.1	19656.	4131.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.826%	92.638%	92.699%	98.043%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 17:42:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50949**	**23.830**	**.50235**	**.50732**	**.48798**
Stddev	.00059	.098	.00298	.00111	.00297
%RSD	.11521	.41237	.59226	.21859	.60905
#1	.50907	23.761	.50446	.50811	.48588
#2	.50990	23.900	.50025	.50654	.49008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49725**	**24.515**	**.50054**	**.0029**	**.49066**
Stddev	.00189	.121	.00026	.0020	.00095
%RSD	.38034	.49546	.05220	69.62	.19310
#1	.49592	24.429	.50072	.0015	.48999
#2	.49859	24.601	.50035	.0044	.49133
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51408**	**.50032**	**23.728**	**25.317**	**.50366**
Stddev	.00143	.00256	.146	.197	.00194
%RSD	.27914	.51247	.61443	.77836	.38520
#1	.51307	.49851	23.625	25.177	.50229
#2	.51510	.50214	23.832	25.456	.50503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 17:42:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.006**	**.50932**	**.50045**	**25.150**	**.49907**
Stddev	.119	.00169	.00068	.113	.00012
%RSD	.47739	.33088	.13638	.45099	.02327
#1	24.922	.50813	.49997	25.070	.49915
#2	25.091	.51051	.50093	25.230	.49899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49502**	**25.356**	**.49962**	**.50085**	**23.786**
Stddev	.00086	.022	.00062	.00120	.115
%RSD	.17309	.08865	.12432	.23945	.48373
#1	.49442	25.372	.49918	.50170	23.704
#2	.49563	25.340	.50006	.50000	23.867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51206**	**.49866**	**.50174**	**.50503**	**.50676**
Stddev	.00071	.00187	.00369	.00362	.00027
%RSD	.13778	.37532	.73533	.71768	.05264
#1	.51156	.49734	.49913	.50247	.50657
#2	.51256	.49999	.50434	.50760	.50695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 17:42:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51006**
Stddev	.00030
%RSD	.05964
#1	.51027
#2	.50984
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3687.4**	**2613.1**	**20429.**	**4145.0**
Stddev	3.0	2.5	33.	47.1
%RSD	.08263	.09649	.16179	1.1368
#1	3685.3	2611.3	20452.	4178.3
#2	3689.6	2614.9	20405.	4111.7

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:46:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.02632**	**-.00013**	**.00157**	**-.00012**
Stddev	.00035	.00169	.00104	.00023	.00001
%RSD	529.99	6.4350	799.33	14.619	11.317
#1	.00018	-.02751	.00060	.00173	-.00013
#2	-.00031	-.02512	-.00086	.00140	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00583**	**-.00009**	**-.0026**	**-.00005**
Stddev	.00000	.00119	.00001	.0086	.00005
%RSD	1.6700	20.416	6.1030	332.6	89.761
#1	-.00013	-.00499	-.00008	.0035	-.00009
#2	-.00014	-.00667	-.00009	-.0086	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**-.00051**	**-.00703**	**.09570**	**-.00078**
Stddev	.00047	.00072	.00245	.00772	.00145
%RSD	135.02	141.65	34.855	8.0670	184.62
#1	-.00002	.00000	-.00876	.09024	.00024
#2	-.00068	-.00101	-.00530	.10116	-.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:46:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01180**	**-.00008**	**-.00025**	**.04491**	**.00033**
Stddev	.00097	.00002	.00021	.00072	.00014
%RSD	8.2250	25.398	82.743	1.6090	42.324
#1	-.01249	-.00007	-.00040	.04542	.00043
#2	-.01111	-.00010	-.00011	.04440	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00099**	**-.00477**	**-.00006**	**.00133**	**-.01226**
Stddev	.00080	.00132	.00174	.00106	.01426
%RSD	80.872	27.631	2716.3	79.260	116.35
#1	-.00155	-.00384	-.00130	.00059	-.02234
#2	-.00042	-.00570	.00117	.00208	-.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00007**	**-.00022**	**-.00067**	**.00030**
Stddev	.00024	.00004	.00020	.00179	.00024
%RSD	182.68	55.806	91.896	268.36	82.378
#1	.00004	-.00010	-.00036	-.00193	.00047
#2	-.00030	-.00004	-.00008	.00060	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:46:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00013
Stddev	.00003
%RSD	23.116
#1	.00015
#2	.00011
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4117.1	2667.6	21190.	4143.3
Stddev	3.2	.1	27.	5.3
%RSD	.07690	.00363	.12844	.12870
#1	4119.3	2667.5	21210.	4147.1
#2	4114.8	2667.6	21171.	4139.5

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:49:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00618**	**.18738**	**.01619**	**.02125**	**.00201**
Stddev	.00024	.03206	.00233	.00010	.00003
%RSD	3.8296	17.111	14.401	.45046	1.7434
#1	.00634	.21006	.01784	.02118	.00203
#2	.00601	.16471	.01454	.02131	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**.49695**	**.00198**	**-.0025**	**.00365**
Stddev	.00003	.00435	.00006	.0305	.00003
%RSD	1.4383	.87492	2.9703	1231.	.77536
#1	.00192	.49388	.00193	-.0241	.00367
#2	.00188	.50003	.00202	.0191	.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00466**	**.01084**	**.04439**	**.57521**	**.03063**
Stddev	.00041	.00038	.00238	.00288	.00262
%RSD	8.8659	3.4696	5.3613	.50060	8.5623
#1	.00496	.01111	.04270	.57317	.03249
#2	.00437	.01058	.04607	.57724	.02878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:49:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20216**	**.00303**	**.00995**	**1.0564**	**.00964**
Stddev	.00495	.00005	.00002	.0034	.00049
%RSD	2.4504	1.5329	.23188	.32038	5.1278
#1	.19866	.00306	.00996	1.0588	.00999
#2	.20567	.00299	.00993	1.0540	.00929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00977**	**.19673**	**.02150**	**.02769**	**.48046**
Stddev	.00002	.00322	.00029	.00245	.00174
%RSD	.18094	1.6348	1.3624	8.8400	.36142
#1	.00978	.19445	.02171	.02942	.48169
#2	.00975	.19900	.02130	.02596	.47923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00929**	**.00507**	**.00494**	**.01857**	**.00528**
Stddev	.00016	.00003	.00008	.00143	.00036
%RSD	1.6834	.65116	1.5662	7.6939	6.8628
#1	.00918	.00509	.00499	.01756	.00502
#2	.00940	.00504	.00488	.01959	.00553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:49:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01147
Stddev	.00048
%RSD	4.1601
#1	.01181
#2	.01114
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4094.2	2670.7	21182.	4139.9
Stddev	2.9	3.6	84.	13.2
%RSD	.07103	.13481	.39446	.31890
#1	4092.1	2668.2	21123.	4149.3
#2	4096.2	2673.3	21241.	4130.6

Sample Name: 480-123168-D-1-B Acquired: 8/28/2017 17:53:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.03411**	**.04138**	**4.8182**	**.27620**
Stddev	.00064	.01485	.00083	.0008	.00111
%RSD	1091.7	43.535	1.9980	.01674	.40224
#1	.00039	.04462	.04196	4.8176	.27541
#2	-.00051	.02361	.04079	4.8188	.27698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**52.528**	**.00013**	**.0130**	**.01210**
Stddev	.00003	.064	.00007	.0027	.00001
%RSD	13.155	.12202	49.564	21.20	.04877
#1	-.00026	52.483	.00018	.0110	.01209
#2	-.00022	52.574	.00009	.0149	.01210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03592**	**.01734**	**2.2929**	**219.32**	**.08226**
Stddev	.00014	.00052	.0038	.21	.00181
%RSD	.40084	2.9786	.16426	.09373	2.2054
#1	.03582	.01698	2.2955	219.18	.08098
#2	.03602	.01771	2.2902	219.47	.08355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-D-1-B Acquired: 8/28/2017 17:53:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.160**	**.15013**	**.00997**	**786.32**	**.12524**
Stddev	.101	.00011	.00039	.68	.00030
%RSD	.12945	.07350	3.9014	.08591	.24099
#1	78.089	.15021	.00969	785.84	.12545
#2	78.232	.15006	.01024	786.80	.12503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00445**	**29.616**	**.01213**	**.00325**	**13.015**
Stddev	.00003	.006	.00288	.00043	.029
%RSD	.77504	.02181	23.730	13.236	.22517
#1	.00443	29.621	.01009	.00355	12.994
#2	.00448	29.612	.01416	.00295	13.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00708**	**.39467**	**.02863**	**-.00299**	**.01594**
Stddev	.00027	.00105	.00005	.00081	.00046
%RSD	3.8550	.26710	.19010	27.137	2.8749
#1	.00727	.39392	.02859	-.00357	.01626
#2	.00689	.39541	.02866	-.00242	.01561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-D-1-B Acquired: 8/28/2017 17:53:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02658
Stddev	.00128
%RSD	4.8081
#1	.02748
#2	.02567
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3101.0	2389.1	18365.	4095.0
Stddev	4.3	4.9	40.	6.0
%RSD	.13746	.20673	.21901	.14752
#1	3098.0	2385.6	18393.	4099.2
#2	3104.0	2392.6	18336.	4090.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.315%	89.238%	86.663%	97.810%
Range				

Sample Name: 480-123168-D-2-B Acquired: 8/28/2017 17:56:58 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.01385**	**.03746**	**4.6673**	**.21497**
Stddev	.00057	.00357	.00228	.0020	.00066
%RSD	517.75	25.781	6.0733	.04221	.30709
#1	.00029	.01132	.03585	4.6659	.21450
#2	-.00051	.01637	.03907	4.6687	.21543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**40.200**	**.00027**	**.0245**	**.01092**
Stddev	.00001	.076	.00009	.0145	.00006
%RSD	9.5332	.18841	34.503	59.02	.54851
#1	-.00011	40.253	.00020	.0347	.01088
#2	-.00010	40.146	.00033	.0143	.01096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03315**	**.00034**	**2.8256**	**210.31**	**.07962**
Stddev	.00033	.00132	.0142	.79	.00122
%RSD	.99139	388.48	.50145	.37769	1.5370
#1	.03338	.00127	2.8357	210.87	.07875
#2	.03292	-.00059	2.8156	209.75	.08048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-D-2-B Acquired: 8/28/2017 17:56:58 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.539**	**.10151**	**.01240**	**751.35**	**.11951**
Stddev	.018	.00034	.00000	2.31	.00003
%RSD	.02554	.33325	.02871	.30730	.02403
#1	68.527	.10127	.01239	752.99	.11949
#2	68.552	.10175	.01240	749.72	.11953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00298**	**25.361**	**.01230**	**.00254**	**11.414**
Stddev	.00214	.020	.00138	.00272	.007
%RSD	72.006	.07733	11.198	107.23	.06376
#1	.00146	25.375	.01133	.00446	11.419
#2	.00449	25.347	.01328	.00061	11.409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00727**	**.32583**	**.02615**	**-.00357**	**.01512**
Stddev	.00027	.00005	.00029	.00084	.00044
%RSD	3.7458	.01636	1.1088	23.642	2.8883
#1	.00708	.32587	.02636	-.00416	.01481
#2	.00746	.32579	.02595	-.00297	.01543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-D-2-B Acquired: 8/28/2017 17:56:58 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02080**
Stddev	.00078
%RSD	3.7431
#1	.02025
#2	.02135
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3133.0**	**2404.1**	**18487.**	**4101.4**
Stddev	.5	2.1	6.	13.5
%RSD	.01713	.08680	.03498	.32922
#1	3133.4	2405.6	18482.	4091.8
#2	3132.6	2402.6	18491.	4110.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.092%	89.798%	87.239%	97.963%
Range				

Sample Name: 480-123168-D-3-B Acquired: 8/28/2017 18:00:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.22679**	**.08538**	**9.3803**	**.82103**
Stddev	.00014	.00060	.00096	.0057	.00129
%RSD	23.172	.26577	1.1272	.06104	.15679
#1	.00071	.22637	.08470	9.3844	.82194
#2	.00051	.22722	.08607	9.3763	.82012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**50.166**	**.00060**	**.0077**	**.04280**
Stddev	.00000	.100	.00008	.0006	.00052
%RSD	2.7817	.19925	12.930	7.543	1.2198
#1	-.00013	50.237	.00066	.0073	.04243
#2	-.00014	50.095	.00055	.0081	.04316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23421**	**.00264**	**4.2127**	F **583.58**	**.18402**
Stddev	.00073	.00076	.0029	1.23	.00113
%RSD	.31283	28.840	.06814	.21068	.61257
#1	.23369	.00318	4.2107	584.45	.18482
#2	.23473	.00210	4.2148	582.71	.18323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-123168-D-3-B Acquired: 8/28/2017 18:00:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**119.83**	**.12044**	**.00996**	**1896.7**	**.36609**
Stddev	.20	.00005	.00006	3.9	.00074
%RSD	.16370	.04096	.63736	.20630	.20198
#1	119.69	.12041	.00991	1899.5	.36661
#2	119.97	.12048	.01000	1894.0	.36557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00745**	**43.567**	**.01708**	**.00789**	**25.811**
Stddev	.00055	.015	.00024	.00271	.047
%RSD	7.4272	.03372	1.3926	34.369	.18359
#1	.00706	43.577	.01691	.00597	25.778
#2	.00784	43.557	.01725	.00981	25.845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03588**	**.52104**	**.22264**	**-.00378**	**.07969**
Stddev	.00006	.00138	.00025	.00253	.00049
%RSD	.17357	.26395	.11187	66.890	.61949
#1	.03584	.52202	.22282	-.00557	.07934
#2	.03592	.52007	.22246	-.00199	.08004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-D-3-B Acquired: 8/28/2017 18:00:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.35186**
Stddev	.00051
%RSD	.14507
#1	.35150
#2	.35222
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2816.8**	**2269.9**	**17210.**	**4044.5**
Stddev	.2	1.8	16.	5.0
%RSD	.00535	.08099	.09342	.12465
#1	2816.7	2268.6	17199.	4048.0
#2	2817.0	2271.2	17221.	4040.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.413%	84.788%	81.213%	96.604%
Range				

Sample Name: BLANK Acquired: 8/28/2017 18:04:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.02440**	**.00135**	**.01584**	**-.00013**
Stddev	.00019	.00450	.00023	.00125	.00002
%RSD	100.43	18.450	17.208	7.9180	13.095
#1	.00032	-.02122	.00119	.01672	-.00014
#2	.00005	-.02758	.00152	.01495	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00432**	**-.00032**	**.0006**	**.00003**
Stddev	.00007	.00049	.00016	.0120	.00003
%RSD	54.424	11.397	50.680	2084.	105.02
#1	-.00007	-.00397	-.00044	-.0079	.00005
#2	-.00017	-.00467	-.00021	.0090	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00020**	**-.00657**	**.37222**	**-.00022**
Stddev	.00040	.00033	.00097	.00758	.00064
%RSD	5917.3	159.41	14.787	2.0365	288.00
#1	.00027	.00044	-.00726	.37758	.00023
#2	-.00029	-.00003	-.00588	.36686	-.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 18:04:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00679**	**-.00005**	**-.00036**	**.19351**	**.00010**
Stddev	.00761	.00001	.00007	.02022	.00033
%RSD	112.00	21.569	20.162	10.448	338.92
#1	-.00141	-.00006	-.00041	.20781	-.00014
#2	-.01218	-.00005	-.00031	.17922	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00032**	**.00015**	**.00384**	**.06839**
Stddev	.00044	.00102	.00099	.00198	.00644
%RSD	87.971	315.40	664.82	51.705	9.4165
#1	-.00081	-.00104	.00085	.00243	.07294
#2	-.00019	.00040	-.00055	.00524	.06383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00002**	**.00022**	**-.00165**	**.00024**
Stddev	.00028	.00004	.00034	.00109	.00033
%RSD	95.962	159.55	155.88	66.323	137.09
#1	-.00049	.00000	-.00002	-.00242	.00047
#2	-.00009	-.00005	.00046	-.00088	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 18:04:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00002**
Stddev	.00006
%RSD	358.49
#1	.00003
#2	-.00006
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4136.1**	**2680.5**	**21371.**	**4142.5**
Stddev	7.7	4.7	100.	10.3
%RSD	.18521	.17408	.46947	.24824
#1	4141.5	2683.8	21301.	4135.2
#2	4130.6	2677.2	21442.	4149.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.45%	100.12%	100.85%	98.946%
Range				

Sample Name: MB 480-373973/1-C Acquired: 8/28/2017 18:07:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.02445**	**.00110**	**.01083**	**-.00006**
Stddev	.00033	.00086	.00038	.00009	.00001
%RSD	65.425	3.5223	34.225	.83920	19.685
#1	.00027	.02506	.00083	.01090	-.00007
#2	.00074	.02384	.00137	.01077	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.02984**	**-.00010**	**.0018**	**.00014**
Stddev	.00018	.00080	.00013	.0088	.00001
%RSD	116.76	2.6725	120.49	490.2	4.6042
#1	-.00003	.03041	-.00019	.0080	.00015
#2	-.00028	.02928	-.00002	-.0044	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00097**	**-.00349**	**.20484**	**.00048**
Stddev	.00021	.00048	.00316	.01031	.00127
%RSD	41.881	49.002	90.423	5.0308	264.53
#1	-.00035	.00064	-.00126	.21213	-.00042
#2	-.00065	.00131	-.00572	.19755	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373973/1-C Acquired: 8/28/2017 18:07:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01045**	**.00027**	**-.00037**	**.13180**	**.00063**
Stddev	.00375	.00003	.00003	.00794	.00007
%RSD	35.866	10.335	8.3734	6.0239	11.588
#1	-.01310	.00025	-.00039	.13742	.00057
#2	-.00780	.00029	-.00035	.12619	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**.00250**	**.00038**	**.00197**	**.01371**
Stddev	.00023	.00196	.00008	.00096	.02879
%RSD	18.262	78.488	20.363	48.736	209.96
#1	-.00107	.00111	.00033	.00129	-.00665
#2	-.00139	.00389	.00044	.00265	.03407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00012**	**-.00022**	**-.00145**	**.00053**
Stddev	.00033	.00008	.00029	.00093	.00032
%RSD	366.96	66.603	134.12	64.214	59.723
#1	.00014	.00018	-.00001	-.00211	.00075
#2	-.00032	.00007	-.00042	-.00079	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373973/1-C Acquired: 8/28/2017 18:07:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00496**
Stddev	.00004
%RSD	.72020
#1	.00499
#2	.00494
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4147.6**	**2680.0**	**21396.**	**4174.6**
Stddev	3.6	7.5	162.	22.7
%RSD	.08617	.27868	.75720	.54457
#1	4150.2	2685.3	21281.	4158.5
#2	4145.1	2674.7	21511.	4190.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.73%	100.10%	100.97%	99.712%
Range				

Sample Name: LCS 480-373973/2-C Acquired: 8/28/2017 18:11:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04714**	**9.9886**	**.20062**	**.21390**	**.20604**
Stddev	.00067	.0520	.00085	.00037	.00025
%RSD	1.4175	.52076	.42617	.17321	.12306
#1	.04667	10.025	.20002	.21364	.20622
#2	.04761	9.9519	.20123	.21416	.20586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20266**	**9.9040**	**.20498**	**.0092**	**.19137**
Stddev	.00118	.0245	.00005	.0011	.00019
%RSD	.58344	.24688	.02413	11.40	.09795
#1	.20349	9.9212	.20502	.0085	.19150
#2	.20182	9.8867	.20495	.0100	.19124
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20438**	**.20450**	**10.063**	**10.249**	**.20712**
Stddev	.00134	.00098	.022	.076	.00091
%RSD	.65661	.47886	.22283	.74579	.44081
#1	.20533	.20519	10.079	10.303	.20777
#2	.20343	.20381	10.048	10.195	.20648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373973/2-C Acquired: 8/28/2017 18:11:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.307**	**.20972**	**.20480**	**10.137**	**.19712**
Stddev	.023	.00151	.00009	.063	.00024
%RSD	.22136	.72025	.04440	.62354	.12073
#1	10.323	.21079	.20486	10.182	.19729
#2	10.291	.20865	.20473	10.093	.19695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20323**	**10.091**	**.20284**	**.20392**	**9.9933**
Stddev	.00147	.002	.00090	.00114	.0723
%RSD	.72324	.02119	.44534	.55972	.72327
#1	.20219	10.090	.20221	.20473	10.044
#2	.20427	10.093	.20348	.20312	9.9422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18379**	**.20236**	**.19956**	**.20201**	**.20807**
Stddev	.00034	.00114	.00087	.00209	.00051
%RSD	.18733	.56127	.43548	1.0347	.24530
#1	.18355	.20316	.20018	.20349	.20843
#2	.18403	.20155	.19895	.20053	.20771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373973/2-C Acquired: 8/28/2017 18:11:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21033**
Stddev	.00331
%RSD	1.5759
#1	.21267
#2	.20798
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3897.2**	**2664.2**	**21109.**	**4249.2**
Stddev	4.7	1.3	31.	15.4
%RSD	.11996	.05029	.14614	.36245
#1	3893.9	2663.2	21087.	4238.4
#2	3900.5	2665.1	21130.	4260.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.651%	99.514%	99.611%	101.49%
Range				

Sample Name: 480-123220-D-1-B Acquired: 8/28/2017 18:15:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.04976**	**-.00031**	**.02283**	**.18502**
Stddev	.00078	.02157	.00047	.00027	.00015
%RSD	217.75	43.349	149.13	1.1715	.08115
#1	-.00091	.06502	-.00064	.02264	.18492
#2	.00019	.03451	.00002	.02302	.18513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**22.594**	**-.00012**	**.0182**	**-.00002**
Stddev	.00001	.103	.00012	.0144	.00001
%RSD	5.4449	.45399	100.73	79.14	68.673
#1	-.00018	22.522	-.00003	.0080	-.00001
#2	-.00020	22.667	-.00020	.0284	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00265**	**-.00296**	**1.4368**	**.00282**
Stddev	.00030	.00034	.00093	.0078	.00039
%RSD	358.39	12.744	31.339	.54346	13.755
#1	-.00030	.00241	-.00362	1.4424	.00254
#2	.00013	.00289	-.00230	1.4313	.00309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-B Acquired: 8/28/2017 18:15:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8743**	**.00676**	**.00023**	**14.274**	**.00362**
Stddev	.0043	.00005	.00002	.076	.00005
%RSD	.08764	.69979	7.0458	.53188	1.4246
#1	4.8713	.00679	.00022	14.220	.00358
#2	4.8773	.00673	.00024	14.327	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**2.7020**	**.00108**	**.00473**	**5.4363**
Stddev	.00097	.0012	.00340	.00189	.0623
%RSD	785.27	.04537	314.00	40.030	1.1459
#1	-.00056	2.7028	.00349	.00607	5.3923
#2	.00081	2.7011	-.00132	.00339	5.4803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.07733**	**-.00029**	**-.00162**	**-.00000**
Stddev	.00034	.00026	.00044	.00084	.00044
%RSD	609.96	.33002	149.01	52.134	13553.
#1	-.00030	.07715	.00002	-.00221	-.00032
#2	.00018	.07751	-.00060	-.00102	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-B Acquired: 8/28/2017 18:15:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01295**
Stddev	.00032
%RSD	2.4918
#1	.01318
#2	.01272
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3932.9**	**2642.5**	**20951.**	**4182.5**
Stddev	4.8	1.9	82.	22.7
%RSD	.12329	.07268	.39214	.54346
#1	3929.5	2643.9	21009.	4198.6
#2	3936.3	2641.1	20893.	4166.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.518%	98.704%	98.866%	99.901%
Range				

Sample Name: 480-123220-D-1-BSD@5 Acquired: 8/28/2017 18:18:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.05604**	**.00054**	**.00751**	**.03668**
Stddev	.00032	.01139	.00303	.00015	.00005
%RSD	170.87	20.318	563.63	2.0333	.14814
#1	-.00004	.06409	.00268	.00762	.03664
#2	.00042	.04799	-.00161	.00740	.03672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**4.4661**	**-.00035**	**.0031**	**-.00002**
Stddev	.00011	.0057	.00004	.0122	.00005
%RSD	49.026	.12766	11.742	387.4	247.25
#1	-.00015	4.4702	-.00038	-.0055	-.00006
#2	-.00031	4.4621	-.00032	.0118	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00027**	**-.00757**	**.38205**	**.00016**
Stddev	.00008	.00080	.00010	.00074	.00026
%RSD	31.353	294.18	1.3767	.19256	161.35
#1	.00019	.00083	-.00765	.38153	.00035
#2	.00030	-.00029	-.00750	.38257	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-BSD@5 Acquired: 8/28/2017 18:18:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96418**	**.00136**	**-.00038**	**2.8532**	**.00078**
Stddev	.00135	.00000	.00005	.0106	.00007
%RSD	.13950	.15037	13.128	.37126	8.3921
#1	.96323	.00136	-.00042	2.8607	.00083
#2	.96513	.00136	-.00035	2.8457	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.51603**	**-.00143**	**-.00069**	**1.0634**
Stddev	.00136	.00299	.00098	.00094	.0090
%RSD	175.94	.57946	68.581	136.11	.84422
#1	.00019	.51814	-.00074	-.00135	1.0571
#2	-.00174	.51391	-.00213	-.00003	1.0698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.01513**	**-.00017**	**-.00153**	**.00002**
Stddev	.00040	.00007	.00007	.00063	.00003
%RSD	201.49	.43499	39.341	41.069	173.05
#1	-.00008	.01518	-.00013	-.00108	.00004
#2	.00048	.01509	-.00022	-.00197	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-BSD@5 Acquired: 8/28/2017 18:18:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00344**
Stddev	.00002
%RSD	.61097
#1	.00342
#2	.00345
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4050.9**	**2657.4**	**21090.**	**4164.7**
Stddev	4.1	2.7	63.	3.5
%RSD	.10239	.10308	.29832	.08362
#1	4048.0	2659.3	21135.	4167.2
#2	4053.9	2655.4	21046.	4162.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.385%	99.259%	99.525%	99.476%
Range				

Sample Name: 480-123220-D-1-BPDS Acquired: 8/28/2017 18:22:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04941	9.7075	.20546	.22167	.37757
Stddev	.00041	.0163	.00196	.00083	.00048
%RSD	.82857	.16742	.95160	.37266	.12590
#1	.04970	9.6960	.20408	.22109	.37723
#2	.04912	9.7190	.20685	.22225	.37790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20533	31.802	.20814	.0056	.19430
Stddev	.00018	.019	.00027	.0134	.00052
%RSD	.08892	.05933	.12939	241.4	.26653
#1	.20520	31.815	.20833	-.0039	.19467
#2	.20546	31.788	.20795	.0151	.19394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20662	.20746	10.177	11.249	.20455
Stddev	.00042	.00039	.035	.042	.00137
%RSD	.20229	.19003	.34054	.37272	.66841
#1	.20692	.20774	10.201	11.219	.20358
#2	.20633	.20718	10.152	11.279	.20551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-BPDS Acquired: 8/28/2017 18:22:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.112**	**.21500**	**.20154**	**23.582**	**.20129**
Stddev	.041	.00073	.00008	.001	.00026
%RSD	.27013	.34065	.04103	.00331	.12913
#1	15.083	.21448	.20160	23.583	.20147
#2	15.141	.21551	.20148	23.581	.20111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20714**	**12.566**	**.20994**	**.20692**	**15.270**
Stddev	.00127	.002	.00005	.00136	.040
%RSD	.61548	.01256	.02343	.65796	.25881
#1	.20623	12.567	.20991	.20788	15.298
#2	.20804	12.565	.20998	.20596	15.242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20475**	**.27111**	**.20214**	**.20675**	**.20861**
Stddev	.00017	.00052	.00011	.00044	.00061
%RSD	.08296	.19001	.05209	.21482	.29185
#1	.20487	.27074	.20221	.20707	.20904
#2	.20463	.27147	.20206	.20644	.20818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-BPDS Acquired: 8/28/2017 18:22:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.22195**
Stddev	.00108
%RSD	.48683
#1	.22118
#2	.22271
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3780.0**	**2635.2**	**20756.**	**4193.8**
Stddev	2.8	.8	15.	.4
%RSD	.07292	.02972	.07301	.01000
#1	3778.1	2634.6	20745.	4193.5
#2	3782.0	2635.7	20766.	4194.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.806%	98.429%	97.945%	100.17%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 18:25:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50895**	**24.128**	**.50145**	**.51030**	**.49060**
Stddev	.00191	.135	.00279	.00043	.00129
%RSD	.37569	.55822	.55719	.08385	.26276
#1	.51030	24.032	.50343	.51000	.48969
#2	.50760	24.223	.49948	.51060	.49151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50239**	**24.658**	**.50126**	**.0115**	**.48949**
Stddev	.00138	.010	.00070	.0350	.00070
%RSD	.27467	.04079	.13998	304.4	.14205
#1	.50142	24.651	.50076	.0362	.48900
#2	.50337	24.665	.50175	-.0132	.48998
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51174**	**.50194**	**23.783**	**25.413**	**.51368**
Stddev	.00086	.00129	.049	.025	.00060
%RSD	.16750	.25683	.20695	.09891	.11748
#1	.51113	.50102	23.818	25.431	.51325
#2	.51234	.50285	23.748	25.395	.51410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 18:25:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.938**	**.51029**	**.50102**	**25.326**	**.49660**
Stddev	.000	.00084	.00064	.057	.00034
%RSD	.00192	.16480	.12719	.22415	.06763
#1	24.938	.50969	.50056	25.285	.49636
#2	24.937	.51088	.50147	25.366	.49683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49679**	**25.443**	**.50305**	**.50461**	**23.998**
Stddev	.00176	.010	.00030	.00264	.000
%RSD	.35442	.03910	.06018	.52281	.00039
#1	.49803	25.436	.50326	.50647	23.998
#2	.49554	25.450	.50284	.50274	23.998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51158**	**.50403**	**.49905**	**.50624**	**.50524**
Stddev	.00059	.00070	.00025	.00285	.00041
%RSD	.11613	.13805	.04962	.56243	.08048
#1	.51116	.50353	.49922	.50423	.50553
#2	.51200	.50452	.49887	.50826	.50496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 18:25:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50742**
Stddev	.00002
%RSD	.00334
#1	.50743
#2	.50740
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3691.7**	**2609.8**	**20406.**	**4102.1**
Stddev	.9	2.6	10.	11.8
%RSD	.02477	.09814	.04996	.28754
#1	3691.1	2611.6	20413.	4110.4
#2	3692.4	2608.0	20399.	4093.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 18:29:09 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.01191**	**-.00187**	**.00255**	**-.00013**
Stddev	.00020	.00215	.00031	.00048	.00003
%RSD	178.63	18.012	16.405	18.926	19.221
#1	-.00026	-.01343	-.00209	.00289	-.00011
#2	.00003	-.01039	-.00166	.00221	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00442**	**-.00013**	**-.0228**	**.00002**
Stddev	.00007	.00230	.00014	.0115	.00007
%RSD	40.191	52.107	106.58	50.35	313.38
#1	-.00022	-.00279	-.00003	-.0310	.00007
#2	-.00012	-.00605	-.00023	-.0147	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00011**	**-.00814**	**.07999**	**.00003**
Stddev	.00041	.00004	.00194	.02324	.00024
%RSD	1183.9	32.907	23.886	29.054	766.35
#1	.00026	.00014	-.00676	.06356	-.00014
#2	-.00033	.00009	-.00951	.09643	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 18:29:09 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00187**	**-.00008**	**-.00010**	**.04939**	**.00017**
Stddev	.00094	.00007	.00006	.00474	.00004
%RSD	50.369	89.990	65.635	9.5993	23.914
#1	-.00253	-.00013	-.00014	.05274	.00014
#2	-.00120	-.00003	-.00005	.04603	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00226**	**-.00550**	**-.00031**	**.00373**	**-.01053**
Stddev	.00005	.00007	.00126	.00115	.00691
%RSD	2.0584	1.3309	403.38	30.749	65.613
#1	-.00223	-.00545	.00058	.00454	-.01542
#2	-.00229	-.00556	-.00120	.00292	-.00565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00002**	**-.00002**	**-.00090**	**.00010**
Stddev	.00042	.00003	.00017	.00155	.00022
%RSD	342.45	169.53	884.14	171.68	219.85
#1	-.00042	-.00003	-.00014	.00019	.00026
#2	.00018	.00000	.00010	-.00199	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 18:29:09 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00001**
Stddev	.00013
%RSD	1322.5
#1	-.00011
#2	.00009
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4141.1**	**2675.8**	**21256.**	**4133.8**
Stddev	2.9	1.9	157.	4.5
%RSD	.07070	.07275	.73661	.10850
#1	4143.2	2677.2	21146.	4130.7
#2	4139.1	2674.4	21367.	4137.0

Sample Name: CCVL-4195955 Acquired: 8/28/2017 18:32:49 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00539**	**.17777**	**.01540**	**.02265**	**.00198**
Stddev	.00004	.00671	.00101	.00032	.00001
%RSD	.75363	3.7727	6.5835	1.4308	.45835
#1	.00542	.18252	.01468	.02288	.00197
#2	.00536	.17303	.01611	.02243	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.49142**	**.00186**	**-.0041**	**.00378**
Stddev	.00006	.00199	.00007	.0182	.00004
%RSD	3.0786	.40579	3.8396	446.9	1.0820
#1	.00191	.49283	.00191	-.0169	.00381
#2	.00183	.49001	.00181	.0088	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00400**	**.00988**	**.04108**	**.58823**	**.02882**
Stddev	.00060	.00056	.00145	.03688	.00174
%RSD	14.890	5.7157	3.5380	6.2692	6.0534
#1	.00442	.00948	.04210	.56215	.03005
#2	.00358	.01028	.04005	.61431	.02758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 18:32:49 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20035**	**.00309**	**.00960**	**1.0577**	**.00934**
Stddev	.00151	.00003	.00007	.0039	.00042
%RSD	.75340	.94458	.68657	.37087	4.5063
#1	.20142	.00307	.00964	1.0550	.00963
#2	.19928	.00311	.00955	1.0605	.00904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00893**	**.19595**	**.01979**	**.02428**	**.49120**
Stddev	.00064	.00547	.00091	.00075	.00003
%RSD	7.1928	2.7923	4.5969	3.0826	.00694
#1	.00848	.19208	.01915	.02375	.49123
#2	.00939	.19982	.02044	.02481	.49118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00924**	**.00509**	**.00496**	**.01935**	**.00515**
Stddev	.00003	.00005	.00041	.00036	.00031
%RSD	.36671	1.0334	8.2758	1.8381	6.0529
#1	.00921	.00513	.00525	.01910	.00537
#2	.00926	.00505	.00467	.01960	.00492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 18:32:49 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01085**
Stddev	.00015
%RSD	1.4140
#1	.01096
#2	.01074
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4105.7**	**2676.6**	**21325.**	**4127.6**
Stddev	.3	1.3	123.	19.2
%RSD	.00788	.04976	.57895	.46592
#1	4105.9	2675.7	21238.	4141.2
#2	4105.4	2677.6	21413.	4114.0

Sample Name: 480-123220-D-1-C MS Acquired: 8/28/2017 18:36:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04790	10.050	.20593	.22769	.38815
Stddev	.00015	.044	.00164	.00012	.00072
%RSD	.30852	.43560	.79757	.05058	.18511
#1	.04780	10.019	.20709	.22777	.38866
#2	.04801	10.081	.20476	.22761	.38764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20606	32.557	.20643	.0033	.19383
Stddev	.00098	.053	.00037	.0013	.00006
%RSD	.47674	.16198	.17790	39.01	.03236
#1	.20537	32.519	.20669	.0024	.19378
#2	.20676	32.594	.20617	.0043	.19387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20295	.20558	10.141	11.547	.21153
Stddev	.00005	.00083	.004	.104	.00002
%RSD	.02680	.40406	.04000	.90221	.01102
#1	.20298	.20617	10.138	11.473	.21151
#2	.20291	.20499	10.144	11.620	.21155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-C MS Acquired: 8/28/2017 18:36:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.180**	**.21511**	**.20626**	**24.558**	**.20229**
Stddev	.005	.00062	.00011	.047	.00036
%RSD	.03292	.29039	.05250	.18994	.17927
#1	15.176	.21555	.20634	24.525	.20204
#2	15.183	.21467	.20618	24.591	.20255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20699**	**12.955**	**.20273**	**.20791**	**15.488**
Stddev	.00104	.018	.00247	.00219	.021
%RSD	.50296	.14270	1.2181	1.0543	.13660
#1	.20625	12.968	.20448	.20636	15.503
#2	.20773	12.942	.20098	.20946	15.473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18654**	**.28129**	**.20092**	**.20435**	**.20964**
Stddev	.00074	.00024	.00116	.00017	.00023
%RSD	.39676	.08618	.57507	.08142	.11075
#1	.18602	.28112	.20173	.20423	.20980
#2	.18706	.28146	.20010	.20447	.20947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-C MS Acquired: 8/28/2017 18:36:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21808
Stddev	.00038
%RSD	.17515
#1	.21835
#2	.21781
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3778.7	2635.9	20758.	4158.9
Stddev	2.2	2.0	65.	2.6
%RSD	.05841	.07578	.31538	.06147
#1	3780.3	2634.5	20712.	4157.1
#2	3777.2	2637.3	20805.	4160.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.774%	98.456%	97.957%	99.337%
Range				

Sample Name: 480-123220-D-1-D MSD Acquired: 8/28/2017 18:39:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04734**	**9.9533**	**.20099**	**.22701**	**.39230**
Stddev	.00045	.1410	.00009	.00002	.00041
%RSD	.94011	1.4165	.04476	.00753	.10351
#1	.04703	10.053	.20106	.22702	.39201
#2	.04766	9.8536	.20093	.22700	.39258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20065**	**32.480**	**.20420**	**-.0131**	**.19134**
Stddev	.00144	.181	.00021	.0056	.00028
%RSD	.71934	.55746	.10165	42.90	.14685
#1	.20167	32.608	.20435	-.0091	.19154
#2	.19963	32.352	.20406	-.0171	.19114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20188**	**.20395**	**9.8936**	**11.385**	**.20770**
Stddev	.00133	.00070	.0686	.072	.00290
%RSD	.65796	.34361	.69380	.63005	1.3964
#1	.20282	.20444	9.9421	11.436	.20975
#2	.20094	.20345	9.8450	11.335	.20565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-D MSD Acquired: 8/28/2017 18:39:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.170**	**.21299**	**.20369**	**24.421**	**.19997**
Stddev	.016	.00016	.00004	.177	.00043
%RSD	.10289	.07453	.02198	.72464	.21452
#1	15.181	.21288	.20372	24.546	.20028
#2	15.159	.21310	.20366	24.296	.19967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20501**	**12.981**	**.20163**	**.20468**	**15.424**
Stddev	.00013	.033	.00113	.00234	.036
%RSD	.06517	.25634	.55876	1.1446	.23173
#1	.20492	13.004	.20083	.20634	15.449
#2	.20511	12.957	.20243	.20303	15.399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18591**	**.27990**	**.19961**	**.20223**	**.20694**
Stddev	.00000	.00175	.00031	.00023	.00077
%RSD	.00157	.62348	.15751	.11514	.37168
#1	.18591	.28113	.19983	.20206	.20748
#2	.18591	.27866	.19939	.20239	.20640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-D MSD Acquired: 8/28/2017 18:39:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21663
Stddev	.00048
%RSD	.22188
#1	.21629
#2	.21697
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3773.6	2632.1	20657.	4218.8
Stddev	.4	.6	21.	3.2
%RSD	.00989	.02280	.10368	.07486
#1	3773.3	2631.7	20672.	4216.5
#2	3773.8	2632.6	20641.	4221.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.649%	98.316%	97.477%	100.77%
Range				

Sample Name: BLANK Acquired: 8/28/2017 18:43:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.01120**	**-.00084**	**.00140**	**-.00011**
Stddev	.00078	.00139	.00024	.00035	.00002
%RSD	166.23	12.428	28.871	24.713	14.782
#1	.00008	-.01219	-.00067	.00116	-.00013
#2	-.00102	-.01022	-.00101	.00165	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00182**	**-.00022**	**.0150**	**.00011**
Stddev	.00009	.00248	.00006	.0279	.00004
%RSD	55.235	136.34	29.435	186.7	39.206
#1	-.00023	-.00357	-.00017	.0347	.00008
#2	-.00010	-.00007	-.00026	-.0048	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00045**	**-.01008**	**.06030**	**-.00210**
Stddev	.00018	.00065	.00314	.01529	.00157
%RSD	210.63	143.94	31.170	25.349	74.910
#1	.00004	-.00090	-.00785	.07111	-.00099
#2	-.00021	.00001	-.01230	.04949	-.00321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 18:43:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00780**	**-.00007**	**-.00022**	**.03781**	**-.00025**
Stddev	.00357	.00009	.00021	.00411	.00016
%RSD	45.715	130.81	95.962	10.884	65.099
#1	-.01032	-.00014	-.00037	.03490	-.00014
#2	-.00528	-.00001	-.00007	.04072	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	**-.00469**	**-.00068**	**.00181**	**-.00155**
Stddev	.00048	.00165	.00104	.00084	.00249
%RSD	54.908	35.273	152.10	46.518	160.84
#1	-.00054	-.00586	.00005	.00122	.00021
#2	-.00122	-.00352	-.00142	.00241	-.00331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00003**	**.00032**	**-.00028**	**.00014**
Stddev	.00024	.00003	.00017	.00001	.00034
%RSD	94.277	86.614	52.306	3.0429	252.85
#1	-.00008	-.00006	.00044	-.00029	-.00011
#2	-.00042	-.00001	.00020	-.00028	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 18:43:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00001
Stddev	.00023
%RSD	1713.2
#1	.00018
#2	-.00015
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4143.5	2684.5	21399.	4159.2
Stddev	7.0	7.5	165.	24.2
%RSD	.16994	.27939	.77069	.58185
#1	4148.5	2689.8	21283.	4176.4
#2	4138.5	2679.2	21516.	4142.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.63%	100.27%	100.98%	99.345%
Range				

Sample Name: MB 480-374149/1-A Acquired: 8/28/2017 18:46:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00436**	**.00121**	**.00298**	**-.00009**
Stddev	.00046	.00491	.00141	.00031	.00002
%RSD	318.55	112.55	116.64	10.559	25.829
#1	-.00047	.00089	.00221	.00276	-.00008
#2	.00018	.00784	.00021	.00320	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.02610**	**-.00005**	**-.0040**	**-.00004**
Stddev	.00008	.00405	.00004	.0104	.00003
%RSD	62.605	15.525	78.321	257.1	99.364
#1	-.00007	.02324	-.00008	.0033	-.00001
#2	-.00019	.02897	-.00002	-.0114	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00023**	**-.00545**	**.11112**	**-.00072**
Stddev	.00009	.00018	.00041	.06622	.00089
%RSD	43.029	74.695	7.5294	59.595	122.96
#1	-.00014	.00036	-.00574	.06429	-.00135
#2	-.00027	.00011	-.00516	.15795	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-374149/1-A Acquired: 8/28/2017 18:46:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00286**	**.00074**	**-.00043**	**.04528**	**.00005**
Stddev	.00035	.00003	.00012	.00222	.00004
%RSD	12.160	4.5486	27.997	4.8938	96.325
#1	-.00261	.00077	-.00051	.04684	.00001
#2	-.00310	.00072	-.00034	.04371	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00284**	**-.00115**	**.00063**	**-.00961**
Stddev	.00014	.00045	.00117	.00071	.00724
%RSD	31.478	15.851	101.95	114.28	75.347
#1	-.00056	-.00316	-.00032	.00012	-.01474
#2	-.00035	-.00252	-.00198	.00113	-.00449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.00013**	**-.00021**	**.00001**	**.00001**
Stddev	.00011	.00002	.00019	.00014	.00035
%RSD	15.792	16.563	90.624	1371.6	3664.7
#1	-.00076	.00011	-.00007	.00011	-.00024
#2	-.00061	.00014	-.00034	-.00009	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-374149/1-A Acquired: 8/28/2017 18:46:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00040**
Stddev	.00018
%RSD	44.815
#1	.00052
#2	.00027
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4164.0**	**2694.7**	**21547.**	**4223.6**
Stddev	1.1	1.2	58.	12.6
%RSD	.02746	.04364	.27047	.29850
#1	4164.8	2695.6	21505.	4232.5
#2	4163.2	2693.9	21588.	4214.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.13%	100.66%	101.68%	100.88%
Range				

Sample Name: LCS 480-374149/2-A Acquired: 8/28/2017 18:50:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04768**	**10.063**	**.20568**	**.21136**	**.20823**
Stddev	.00009	.055	.00296	.00114	.00119
%RSD	.18869	.54629	1.4381	.53836	.57192
#1	.04761	10.025	.20358	.21056	.20738
#2	.04774	10.102	.20777	.21217	.20907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20367**	**10.000**	**.20647**	**.0098**	**.19234**
Stddev	.00120	.063	.00017	.0095	.00038
%RSD	.58730	.63414	.08254	96.47	.19985
#1	.20282	9.9554	.20635	.0031	.19207
#2	.20452	10.045	.20659	.0165	.19261
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20330**	**.20579**	**10.168**	**10.269**	**.21048**
Stddev	.00063	.00036	.051	.012	.00006
%RSD	.30809	.17311	.49932	.11754	.03003
#1	.20286	.20554	10.132	10.260	.21052
#2	.20374	.20604	10.203	10.277	.21043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-374149/2-A Acquired: 8/28/2017 18:50:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.398**	**.21172**	**.20491**	**10.214**	**.19876**
Stddev	.067	.00099	.00064	.014	.00045
%RSD	.64774	.46705	.31240	.13355	.22655
#1	10.351	.21102	.20536	10.204	.19844
#2	10.446	.21242	.20445	10.224	.19908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20367**	**10.183**	**.20264**	**.20707**	**10.077**
Stddev	.00071	.012	.00016	.00002	.071
%RSD	.34901	.11827	.07777	.00799	.70306
#1	.20317	10.192	.20253	.20706	10.026
#2	.20418	10.175	.20275	.20708	10.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18398**	**.20415**	**.20057**	**.20566**	**.20798**
Stddev	.00066	.00086	.00128	.00293	.00078
%RSD	.35937	.42361	.64058	1.4253	.37660
#1	.18352	.20354	.19966	.20773	.20742
#2	.18445	.20476	.20148	.20359	.20853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-374149/2-A Acquired: 8/28/2017 18:50:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20724**
Stddev	.00021
%RSD	.10161
#1	.20709
#2	.20739
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3904.1**	**2672.7**	**21080.**	**4230.9**
Stddev	4.4	2.6	65.	47.3
%RSD	.11278	.09675	.30718	1.1179
#1	3907.2	2674.5	21126.	4264.4
#2	3900.9	2670.9	21034.	4197.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.818%	99.831%	99.474%	101.06%
Range				

Sample Name: LCSD 480-374149/3-A Acquired: 8/28/2017 18:54:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04719**	**9.9614**	**.20317**	**.21012**	**.20598**
Stddev	.00016	.0979	.00002	.00003	.00124
%RSD	.33063	.98242	.00988	.01407	.60172
#1	.04730	10.031	.20316	.21014	.20686
#2	.04708	9.8922	.20319	.21009	.20511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20274**	**9.9672**	**.20577**	**.0225**	**.19153**
Stddev	.00130	.0527	.00029	.0183	.00014
%RSD	.63935	.52880	.13932	81.22	.07407
#1	.20366	10.004	.20598	.0354	.19143
#2	.20183	9.9299	.20557	.0096	.19163
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20300**	**.20405**	**10.091**	**10.139**	**.20669**
Stddev	.00037	.00142	.005	.057	.00274
%RSD	.18094	.69577	.05049	.55756	1.3252
#1	.20274	.20506	10.095	10.179	.20863
#2	.20326	.20305	10.088	10.099	.20475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-374149/3-A Acquired: 8/28/2017 18:54:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.356**	**.21003**	**.20511**	**10.117**	**.19737**
Stddev	.023	.00102	.00010	.049	.00114
%RSD	.22486	.48597	.05107	.48646	.57808
#1	10.372	.21075	.20504	10.152	.19656
#2	10.339	.20931	.20518	10.082	.19817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20411**	**10.138**	**.20423**	**.20672**	**9.9782**
Stddev	.00207	.009	.00016	.00273	.0683
%RSD	1.0136	.08862	.07775	1.3207	.68453
#1	.20558	10.132	.20412	.20865	10.027
#2	.20265	10.144	.20435	.20479	9.9299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18213**	**.20215**	**.20002**	**.20362**	**.20738**
Stddev	.00059	.00104	.00179	.00052	.00076
%RSD	.32260	.51216	.89665	.25521	.36822
#1	.18172	.20288	.20129	.20325	.20792
#2	.18255	.20142	.19875	.20399	.20684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-374149/3-A Acquired: 8/28/2017 18:54:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20599
Stddev	.00127
%RSD	.61417
#1	.20510
#2	.20689
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3911.3	2672.8	21196.	4237.1
Stddev	2.4	2.2	104.	29.8
%RSD	.06060	.08185	.49135	.70441
#1	3913.0	2671.3	21122.	4216.0
#2	3909.7	2674.4	21269.	4258.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.995%	99.837%	100.02%	101.20%
Range				

Sample Name: 480-123261-D-1-A Acquired: 8/28/2017 18:57:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.05797**	**.00728**	**.08378**	**.27002**
Stddev	.00098	.00076	.00210	.00082	.00086
%RSD	2532.0	1.3140	28.878	.97955	.31861
#1	-.00066	.05743	.00579	.08436	.27063
#2	.00073	.05851	.00876	.08320	.26941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**107.05**	**.00037**	**-.0197**	**-.00010**
Stddev	.00001	.08	.00004	.0070	.00008
%RSD	3.3521	.07078	11.991	35.66	77.723
#1	-.00016	106.99	.00041	-.0147	-.00005
#2	-.00015	107.10	.00034	-.0247	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.05393**	**3.2502**	**12.193**	**.00133**
Stddev	.00016	.00038	.0075	.044	.00037
%RSD	19.705	.70956	.23171	.35913	27.389
#1	.00069	.05421	3.2449	12.162	.00159
#2	.00092	.05366	3.2555	12.224	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-A Acquired: 8/28/2017 18:57:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.473**	**.48288**	**.00049**	**398.63**	**.00065**
Stddev	.025	.00122	.00010	.23	.00023
%RSD	.16331	.25353	19.516	.05685	34.879
#1	15.455	.48374	.00056	398.79	.00049
#2	15.491	.48201	.00042	398.47	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**4.2787**	**-.00077**	**.00361**	**7.3737**
Stddev	.00080	.0047	.00009	.00192	.0009
%RSD	99.193	.11033	11.475	53.005	.01265
#1	.00024	4.2753	-.00084	.00497	7.3744
#2	.00138	4.2820	-.00071	.00226	7.3731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.66787**	**-.00014**	**-.00056**	**-.00027**
Stddev	.00026	.00038	.00027	.00014	.00005
%RSD	245.65	.05646	190.69	25.251	18.628
#1	-.00008	.66814	-.00034	-.00046	-.00030
#2	.00029	.66761	.00005	-.00066	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-A Acquired: 8/28/2017 18:57:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02429**
Stddev	.00031
%RSD	1.2792
#1	.02451
#2	.02407
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3298.9**	**2473.9**	**19177.**	**4075.6**
Stddev	1.3	1.8	28.	19.5
%RSD	.04011	.07121	.14626	.47963
#1	3297.9	2472.6	19157.	4089.4
#2	3299.8	2475.1	19197.	4061.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.120%	92.406%	90.496%	97.347%
Range				

Sample Name: 480-123261-D-1-Apds Acquired: 8/28/2017 19:01:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05116**	**9.9503**	**.21836**	**.28587**	**.45483**
Stddev	.00027	.0155	.00231	.00009	.00103
%RSD	.53483	.15547	1.0598	.03237	.22694
#1	.05097	9.9394	.21999	.28593	.45410
#2	.05136	9.9613	.21672	.28580	.45556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20507**	**113.30**	**.21161**	**-.0140**	**.20218**
Stddev	.00062	.38	.00014	.0021	.00017
%RSD	.30075	.33934	.06492	15.07	.08171
#1	.20463	113.03	.21151	-.0125	.20206
#2	.20550	113.57	.21171	-.0155	.20230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20600**	**.25799**	**13.092**	**21.962**	**.20720**
Stddev	.00112	.00292	.063	.100	.00173
%RSD	.54412	1.1315	.48259	.45487	.83624
#1	.20520	.25592	13.047	21.891	.20843
#2	.20679	.26005	13.137	22.033	.20598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-Apds Acquired: 8/28/2017 19:01:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.868**	**.66724**	**.19872**	**394.43**	**.20544**
Stddev	.093	.00101	.00010	.47	.00067
%RSD	.37444	.15102	.05007	.11805	.32769
#1	24.802	.66653	.19865	394.10	.20592
#2	24.934	.66796	.19879	394.76	.20496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21268**	**14.868**	**.21193**	**.21088**	**17.183**
Stddev	.00063	.016	.00023	.00132	.055
%RSD	.29633	.11036	.10803	.62828	.31995
#1	.21312	14.880	.21209	.21182	17.144
#2	.21223	14.857	.21177	.20995	17.222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21534**	**.85102**	**.20250**	**.19992**	**.20832**
Stddev	.00099	.00069	.00008	.00085	.00064
%RSD	.46006	.08140	.04126	.42329	.30756
#1	.21464	.85053	.20244	.19932	.20786
#2	.21604	.85151	.20256	.20052	.20877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-Apds Acquired: 8/28/2017 19:01:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.23589
Stddev	.00104
%RSD	.43963
#1	.23516
#2	.23663
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3274.5	2482.0	19258.	4109.6
Stddev	5.3	2.9	34.	16.6
%RSD	.16042	.11694	.17832	.40445
#1	3278.2	2484.1	19282.	4121.4
#2	3270.7	2480.0	19234.	4097.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.527%	92.710%	90.878%	98.159%
Range				

Sample Name: 480-123261-D-1-Asd@5 Acquired: 8/28/2017 19:04:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01110**	**.00133**	**.01751**	**.05411**
Stddev	.00042	.02186	.00028	.00028	.00023
%RSD	611.43	197.03	21.155	1.5730	.41846
#1	.00023	-.00436	.00113	.01771	.05427
#2	-.00036	.02656	.00153	.01732	.05395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**21.000**	**-.00003**	**-.0145**	**.00002**
Stddev	.00003	.021	.00001	.0185	.00004
%RSD	21.446	.09907	23.592	128.0	180.73
#1	-.00014	20.985	-.00002	-.0276	-.00001
#2	-.00018	21.014	-.00003	-.0014	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01146**	**.64204**	**2.4494**	**.00037**
Stddev	.00011	.00013	.00488	.0004	.00051
%RSD	164.11	1.1095	.75974	.01467	136.64
#1	-.00014	.01137	.64549	2.4496	.00001
#2	.00001	.01155	.63860	2.4491	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-Asd@5 Acquired: 8/28/2017 19:04:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1044**	**.09651**	**-.00031**	**78.524**	**.00023**
Stddev	.0040	.00018	.00000	.189	.00020
%RSD	.12728	.19090	1.3540	.24045	90.646
#1	3.1016	.09664	-.00031	78.658	.00037
#2	3.1072	.09638	-.00030	78.391	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.79622**	**.00047**	**-.00013**	**1.4341**
Stddev	.00067	.00381	.00306	.00170	.0109
%RSD	334.42	.47870	645.87	1328.8	.76076
#1	.00027	.79352	.00264	-.00133	1.4263
#2	-.00067	.79891	-.00169	.00107	1.4418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.13181**	**-.00040**	**-.00073**	**.00045**
Stddev	.00012	.00042	.00005	.00109	.00021
%RSD	65.587	.31828	11.501	148.85	45.324
#1	-.00027	.13211	-.00043	-.00150	.00031
#2	-.00010	.13152	-.00037	.00004	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-Asd@5 Acquired: 8/28/2017 19:04:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00444**
Stddev	.00020
%RSD	4.5376
#1	.00458
#2	.00430
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3703.4**	**2583.2**	**20247.**	**4112.2**
Stddev	4.2	.0	11.	11.4
%RSD	.11403	.00130	.05393	.27783
#1	3700.4	2583.2	20240.	4104.1
#2	3706.4	2583.2	20255.	4120.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.945%	96.488%	95.547%	98.220%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:08:16 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50675**	**24.024**	**.50223**	**.50699**	**.49388**
Stddev	.00046	.084	.00177	.00055	.00073
%RSD	.09114	.35096	.35336	.10891	.14706
#1	.50643	23.965	.50098	.50660	.49440
#2	.50708	24.084	.50349	.50738	.49337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49892**	**24.536**	**.50089**	**-.0127**	**.49012**
Stddev	.00046	.159	.00036	.0529	.00057
%RSD	.09136	.64700	.07252	417.5	.11582
#1	.49860	24.424	.50115	.0248	.49052
#2	.49924	24.649	.50064	-.0501	.48971
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50844**	**.50393**	**23.768**	**25.377**	**.50990**
Stddev	.00136	.00326	.096	.039	.00116
%RSD	.26728	.64704	.40232	.15562	.22750
#1	.50940	.50624	23.700	25.349	.51072
#2	.50748	.50163	23.836	25.405	.50908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:08:16 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.007**	**.50999**	**.49923**	**25.278**	**.49877**
Stddev	.040	.00213	.00036	.033	.00040
%RSD	.16104	.41675	.07301	.12859	.08049
#1	25.035	.51149	.49897	25.255	.49848
#2	24.978	.50849	.49948	25.301	.49905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49584**	**25.375**	**.49983**	**.50174**	**23.865**
Stddev	.00036	.014	.00081	.00096	.176
%RSD	.07179	.05340	.16156	.19137	.73762
#1	.49609	25.365	.49926	.50241	23.741
#2	.49559	25.384	.50041	.50106	23.990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51282**	**.50034**	**.49711**	**.50348**	**.50299**
Stddev	.00064	.00125	.00213	.00090	.00101
%RSD	.12447	.24913	.42747	.17817	.20086
#1	.51237	.49946	.49861	.50285	.50370
#2	.51327	.50123	.49561	.50412	.50227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:08:16 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50787**
Stddev	.00335
%RSD	.66015
#1	.51024
#2	.50550
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3697.4**	**2621.7**	**20515.**	**4134.4**
Stddev	1.7	1.1	59.	19.1
%RSD	.04530	.04342	.28717	.46101
#1	3696.2	2622.5	20473.	4147.9
#2	3698.6	2620.9	20557.	4121.0

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:11:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00277**	**.00139**	**.00094**	**-.00011**
Stddev	.00092	.02180	.00199	.00003	.00004
%RSD	141.24	786.91	143.39	3.0972	31.966
#1	-.00000	.01818	.00280	.00096	-.00014
#2	-.00130	-.01264	-.00002	.00092	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00504**	**-.00005**	**.0233**	**-.00013**
Stddev	.00004	.00422	.00009	.0048	.00012
%RSD	20.634	83.799	182.20	20.58	93.438
#1	-.00023	-.00803	-.00011	.0199	-.00021
#2	-.00017	-.00205	.00001	.0267	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00022**	**-.00797**	**.08678**	**.00084**
Stddev	.00033	.00013	.00223	.05715	.00157
%RSD	101.89	59.095	27.933	65.860	187.92
#1	-.00009	.00013	-.00954	.04636	-.00028
#2	-.00056	.00031	-.00639	.12719	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:11:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00484**	**-.00007**	**-.00031**	**.04019**	**.00015**
Stddev	.00521	.00001	.00001	.00727	.00013
%RSD	107.60	15.812	3.9239	18.095	87.133
#1	-.00852	-.00008	-.00032	.03505	.00024
#2	-.00116	-.00006	-.00030	.04533	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.00408**	**-.00033**	**.00201**	**-.01148**
Stddev	.00006	.00230	.00158	.00104	.00326
%RSD	10.183	56.344	474.73	51.444	28.378
#1	-.00064	-.00570	.00078	.00128	-.00918
#2	-.00056	-.00245	-.00145	.00275	-.01379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00007**	**.00020**	**-.00149**	**-.00004**
Stddev	.00005	.00012	.00007	.00051	.00089
%RSD	15.412	170.47	33.350	34.153	2369.0
#1	.00035	-.00015	.00015	-.00113	-.00067
#2	.00029	.00001	.00024	-.00185	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:11:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00075**
Stddev	.00020
%RSD	26.895
#1	.00061
#2	.00090
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4142.6**	**2683.3**	**21308.**	**4125.1**
Stddev	4.4	4.7	138.	.7
%RSD	.10640	.17439	.64823	.01601
#1	4139.5	2680.0	21406.	4124.6
#2	4145.8	2686.6	21211.	4125.5

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:15:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**.18188**	**.01610**	**.02111**	**.00198**
Stddev	.00048	.03941	.00169	.00033	.00001
%RSD	8.1229	21.668	10.467	1.5760	.75043
#1	.00554	.20975	.01729	.02087	.00197
#2	.00622	.15401	.01491	.02134	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.49013**	**.00183**	**.0146**	**.00389**
Stddev	.00003	.00048	.00003	.0208	.00021
%RSD	1.3278	.09710	1.4497	142.7	5.2702
#1	.00195	.49047	.00185	-.0001	.00404
#2	.00199	.48980	.00181	.0293	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00421**	**.01077**	**.03734**	**.56718**	**.03061**
Stddev	.00023	.00028	.00001	.03043	.00086
%RSD	5.5693	2.6148	.03815	5.3645	2.8085
#1	.00437	.01057	.03735	.54566	.03000
#2	.00404	.01097	.03733	.58869	.03122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:15:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20118**	**.00296**	**.00964**	**1.0528**	**.00970**
Stddev	.00815	.00003	.00008	.0001	.00033
%RSD	4.0535	1.0066	.85289	.00674	3.4478
#1	.19541	.00298	.00958	1.0528	.00993
#2	.20695	.00294	.00970	1.0527	.00946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00955**	**.19282**	**.02002**	**.02527**	**.48832**
Stddev	.00094	.00103	.00183	.00355	.01117
%RSD	9.8202	.53214	9.1223	14.044	2.2866
#1	.01021	.19209	.01873	.02276	.48043
#2	.00889	.19354	.02131	.02778	.49622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00959**	**.00496**	**.00496**	**.01959**	**.00561**
Stddev	.00031	.00003	.00020	.00004	.00004
%RSD	3.2145	.62726	4.0805	.20683	.79788
#1	.00937	.00494	.00510	.01956	.00558
#2	.00981	.00498	.00482	.01962	.00564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:15:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01115
Stddev	.00048
%RSD	4.3182
#1	.01149
#2	.01081
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4103.0	2682.6	21369.	4122.2
Stddev	1.9	3.9	35.	8.1
%RSD	.04738	.14607	.16145	.19742
#1	4104.4	2679.8	21344.	4128.0
#2	4101.7	2685.3	21393.	4116.4

Sample Name: 480-123261-D-1-B MS Acquired: 8/28/2017 19:19:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04891**	**9.9273**	**.21793**	**.28437**	**.45210**
Stddev	.00022	.0644	.00284	.00008	.00164
%RSD	.45014	.64882	1.3048	.02729	.36271
#1	.04907	9.8817	.21592	.28443	.45094
#2	.04876	9.9728	.21994	.28432	.45326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20353**	**111.85**	**.20939**	**-.0239**	**.20090**
Stddev	.00137	.62	.00035	.0070	.00012
%RSD	.67130	.55742	.16926	29.37	.06035
#1	.20257	111.41	.20964	-.0289	.20099
#2	.20450	112.29	.20914	-.0189	.20082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20184**	**.25698**	**12.967**	**21.981**	**.20653**
Stddev	.00108	.00220	.042	.046	.00167
%RSD	.53611	.85611	.32586	.21138	.80877
#1	.20108	.25542	12.937	21.948	.20535
#2	.20261	.25853	12.997	22.014	.20771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-B MS Acquired: 8/28/2017 19:19:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.615**	**.66684**	**.20159**	**392.12**	**.20656**
Stddev	.084	.00243	.00033	1.62	.00073
%RSD	.34299	.36401	.16417	.41389	.35509
#1	24.555	.66512	.20183	390.97	.20604
#2	24.674	.66855	.20136	393.26	.20708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21046**	**14.768**	**.20279**	**.20480**	**17.106**
Stddev	.00045	.038	.00084	.00244	.073
%RSD	.21215	.25404	.41249	1.1933	.42937
#1	.21014	14.795	.20220	.20653	17.054
#2	.21077	14.742	.20338	.20308	17.158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19557**	**.83892**	**.20078**	**.19497**	**.20871**
Stddev	.00078	.00512	.00104	.00026	.00108
%RSD	.40074	.61021	.51579	.13245	.51645
#1	.19612	.83530	.20005	.19479	.20795
#2	.19502	.84254	.20152	.19516	.20948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-B MS Acquired: 8/28/2017 19:19:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.23117
Stddev	.00084
%RSD	.36526
#1	.23058
#2	.23177
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3280.8	2487.7	19208.	4079.7
Stddev	3.7	.6	85.	16.5
%RSD	.11150	.02340	.44456	.40506
#1	3283.4	2488.2	19268.	4091.3
#2	3278.2	2487.3	19147.	4068.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.682%	92.923%	90.641%	97.444%
Range				

Sample Name: 480-123261-D-1-C MSD Acquired: 8/28/2017 19:22:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04907**	**10.027**	**.21890**	**.28659**	**.45647**
Stddev	.00079	.013	.00053	.00102	.00183
%RSD	1.6143	.12788	.24391	.35682	.40047
#1	.04963	10.018	.21927	.28587	.45777
#2	.04851	10.036	.21852	.28732	.45518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20430**	**110.60**	**.21042**	**-.0103**	**.20237**
Stddev	.00035	.01	.00065	.0358	.00042
%RSD	.17097	.00698	.30677	347.1	.20798
#1	.20405	110.60	.21087	-.0356	.20267
#2	.20454	110.61	.20996	.0150	.20207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20054**	**.26042**	**12.949**	**21.921**	**.20955**
Stddev	.00151	.00012	.027	.046	.00081
%RSD	.75091	.04663	.20973	.21158	.38701
#1	.20161	.26033	12.969	21.888	.21013
#2	.19948	.26050	12.930	21.953	.20898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-C MSD Acquired: 8/28/2017 19:22:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.633**	**.66446**	**.20274**	**388.34**	**.20774**
Stddev	.064	.00201	.00010	1.43	.00004
%RSD	.25793	.30312	.05007	.36941	.02026
#1	24.678	.66589	.20267	389.36	.20771
#2	24.588	.66304	.20281	387.33	.20777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21553**	**14.822**	**.20675**	**.20972**	**17.043**
Stddev	.00134	.034	.00045	.00105	.031
%RSD	.62273	.22682	.21534	.49997	.18106
#1	.21648	14.846	.20643	.20898	17.021
#2	.21458	14.799	.20706	.21046	17.065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19625**	**.83583**	**.20150**	**.19626**	**.20859**
Stddev	.00054	.00148	.00098	.00176	.00024
%RSD	.27669	.17669	.48478	.89462	.11516
#1	.19663	.83688	.20219	.19502	.20842
#2	.19586	.83479	.20081	.19750	.20876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-C MSD Acquired: 8/28/2017 19:22:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.23119
Stddev	.00010
%RSD	.04390
#1	.23126
#2	.23112
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3283.8	2495.4	19255.	4129.1
Stddev	6.9	2.9	26.	6.0
%RSD	.20967	.11770	.13266	.14445
#1	3278.9	2493.3	19237.	4133.3
#2	3288.7	2497.5	19273.	4124.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.754%	93.209%	90.863%	98.624%
Range				

Sample Name: 480-123261-D-2-A Acquired: 8/28/2017 19:26:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.11320**	**.00338**	**.08222**	**.24798**
Stddev	.00090	.00825	.00021	.00039	.00037
%RSD	169.09	7.2915	6.1589	.47733	.15024
#1	.00117	.10736	.00324	.08250	.24825
#2	-.00010	.11904	.00353	.08195	.24772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**102.89**	**.00028**	**.0070**	**-.00005**
Stddev	.00003	.11	.00000	.0136	.00004
%RSD	14.447	.10247	1.5406	194.6	81.620
#1	-.00016	102.82	.00028	.0166	-.00002
#2	-.00019	102.97	.00029	-.0026	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.04883**	**1.6824**	**12.126**	**.00290**
Stddev	.00034	.00010	.0004	.045	.00119
%RSD	34982.	.20730	.02132	.36868	40.953
#1	.00024	.04876	1.6826	12.158	.00206
#2	-.00024	.04890	1.6821	12.095	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-2-A Acquired: 8/28/2017 19:26:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.299**	**.19456**	**.00068**	**394.83**	**.00365**
Stddev	.045	.00069	.00010	.29	.00005
%RSD	.29533	.35609	15.093	.07417	1.3657
#1	15.331	.19505	.00075	394.62	.00368
#2	15.267	.19407	.00061	395.04	.00361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00542**	**31.620**	**.00045**	**.00328**	**7.0147**
Stddev	.00001	.052	.00166	.00324	.0379
%RSD	.15455	.16437	371.10	98.958	.53972
#1	.00543	31.656	-.00073	.00557	6.9879
#2	.00542	31.583	.00162	.00098	7.0415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.65614**	**.00061**	**-.00125**	**-.00034**
Stddev	.00030	.00130	.00052	.00188	.00017
%RSD	92.383	.19808	86.469	150.21	50.802
#1	-.00054	.65522	.00024	-.00258	-.00022
#2	-.00011	.65706	.00098	.00008	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-2-A Acquired: 8/28/2017 19:26:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.08562
Stddev	.00026
%RSD	.29806
#1	.08544
#2	.08580
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3321.3	2481.3	19256.	4091.7
Stddev	1.5	.6	64.	5.3
%RSD	.04444	.02373	.33101	.12975
#1	3320.2	2480.9	19211.	4088.0
#2	3322.3	2481.7	19301.	4095.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.664%	92.681%	90.867%	97.732%
Range				

Sample Name: 480-123261-C-3-A Acquired: 8/28/2017 19:29:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.06938**	**.00377**	**.08211**	**.26198**
Stddev	.00008	.03447	.00327	.00002	.00113
%RSD	49.139	49.684	86.965	.02401	.42994
#1	.00023	.04501	.00145	.08210	.26119
#2	.00011	.09376	.00608	.08213	.26278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**104.86**	**.00022**	**-.0057**	**-.00034**
Stddev	.00003	.03	.00001	.0133	.00009
%RSD	24.026	.03163	5.9105	235.1	26.703
#1	-.00011	104.84	.00023	.0037	-.00027
#2	-.00016	104.88	.00022	-.0151	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.05090**	**2.3523**	**12.138**	**.00248**
Stddev	.00143	.00053	.0057	.015	.00072
%RSD	337.67	1.0474	.24208	.12007	28.916
#1	-.00143	.05052	2.3564	12.127	.00299
#2	.00059	.05127	2.3483	12.148	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-3-A Acquired: 8/28/2017 19:29:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.218**	**.42317**	**.00049**	**393.50**	**.00042**
Stddev	.058	.00222	.00008	.07	.00011
%RSD	.37963	.52387	15.258	.01873	25.163
#1	15.177	.42160	.00055	393.45	.00034
#2	15.259	.42473	.00044	393.55	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00155**	**4.4628**	**-.00154**	**-.00118**	**7.1410**
Stddev	.00023	.0019	.00078	.00224	.0470
%RSD	14.826	.04370	50.495	188.86	.65835
#1	.00172	4.4614	-.00099	.00040	7.1078
#2	.00139	4.4642	-.00209	-.00277	7.1743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.65574**	**.00017**	**-.00048**	**.00004**
Stddev	.00081	.00078	.00031	.00110	.00004
%RSD	188.19	.11917	177.99	230.35	108.22
#1	-.00100	.65629	-.00004	-.00125	.00007
#2	.00014	.65519	.00039	.00030	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-3-A Acquired: 8/28/2017 19:29:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03279
Stddev	.00025
%RSD	.75261
#1	.03261
#2	.03296
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3302.2	2472.3	19139.	4097.8
Stddev	4.5	.8	39.	11.5
%RSD	.13685	.03347	.20618	.27946
#1	3299.0	2471.8	19167.	4105.9
#2	3305.4	2472.9	19111.	4089.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.202%	92.348%	90.316%	97.879%
Range				

Sample Name: 480-123261-C-4-A Acquired: 8/28/2017 19:33:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.16468**	**.00269**	**.07975**	**.24807**
Stddev	.00097	.02375	.00001	.00096	.00060
%RSD	121.40	14.420	.23092	1.2025	.24178
#1	.00011	.18147	.00269	.07907	.24765
#2	.00149	.14789	.00268	.08043	.24850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**101.12**	**.00029**	**.0241**	**-.00020**
Stddev	.00005	.29	.00014	.0212	.00014
%RSD	23.985	.28748	47.423	87.93	69.417
#1	-.00023	101.33	.00039	.0091	-.00010
#2	-.00017	100.91	.00019	.0390	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.05227**	**2.4455**	**11.787**	**.00200**
Stddev	.00066	.00097	.0071	.143	.00028
%RSD	332.85	1.8566	.29128	1.2165	13.929
#1	-.00066	.05158	2.4505	11.889	.00180
#2	.00027	.05295	2.4405	11.686	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-4-A Acquired: 8/28/2017 19:33:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.851**	**.16852**	**.00051**	**383.42**	**.00115**
Stddev	.041	.00044	.00021	2.49	.00024
%RSD	.27277	.26084	41.836	.64841	20.943
#1	14.822	.16821	.00066	385.18	.00132
#2	14.880	.16883	.00036	381.66	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**4.0965**	**-.00064**	**-.00087**	**6.9380**
Stddev	.00085	.0037	.00141	.00336	.0061
%RSD	55.438	.09017	219.04	387.27	.08748
#1	.00212	4.0938	-.00164	-.00324	6.9423
#2	.00093	4.0991	.00035	.00151	6.9337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.64577**	**.00026**	**-.00094**	**-.00006**
Stddev	.00020	.00470	.00003	.00072	.00023
%RSD	95.158	.72771	11.942	75.928	398.12
#1	.00007	.64910	.00029	-.00044	-.00022
#2	.00036	.64245	.00024	-.00145	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-4-A Acquired: 8/28/2017 19:33:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03728
Stddev	.00000
%RSD	.00213
#1	.03728
#2	.03728
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3311.7	2477.4	19319.	4087.3
Stddev	6.1	5.2	101.	4.5
%RSD	.18383	.20913	.52205	.11082
#1	3316.0	2481.1	19390.	4084.1
#2	3307.4	2473.8	19248.	4090.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.431%	92.538%	91.165%	97.626%
Range				

Sample Name: 190-14287-C-1-A Acquired: 8/28/2017 19:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.01938**	**.00165**	**.23505**	**.22252**
Stddev	.00010	.00836	.00138	.00007	.00035
%RSD	43.134	43.140	83.670	.03129	.15774
#1	.00016	.01347	.00067	.23500	.22277
#2	.00029	.02529	.00263	.23510	.22228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**151.72**	**.00010**	**.0032**	**-.00031**
Stddev	.00006	.50	.00026	.0485	.00009
%RSD	28.278	.33047	253.85	1522.	29.695
#1	-.00027	151.37	.00028	-.0311	-.00024
#2	-.00018	152.07	-.00008	.0375	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.00068**	**1.0843**	**2.1703**	**.00404**
Stddev	.00001	.00067	.0108	.0068	.00038
%RSD	2.4582	98.136	.99721	.31492	9.5158
#1	-.00056	.00116	1.0766	2.1655	.00431
#2	-.00058	.00021	1.0919	2.1751	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-C-1-A Acquired: 8/28/2017 19:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.648**	**.05713**	**.00183**	**105.68**	**.00119**
Stddev	.121	.00021	.00005	.71	.00057
%RSD	.30541	.36559	2.5364	.67302	47.768
#1	39.734	.05698	.00179	105.18	.00159
#2	39.562	.05728	.00186	106.19	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**20.307**	**-.00017**	**.00055**	**6.1503**
Stddev	.00156	.021	.00057	.00384	.0193
%RSD	595.58	.10399	335.30	697.38	.31310
#1	-.00137	20.322	.00023	-.00216	6.1367
#2	.00084	20.292	-.00057	.00327	6.1639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.25371**	**-.00019**	**-.00131**	**-.00013**
Stddev	.00033	.00062	.00061	.00141	.00013
%RSD	1486.8	.24423	318.48	107.41	96.200
#1	-.00026	.25327	-.00062	-.00031	-.00022
#2	.00021	.25415	.00024	-.00230	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-C-1-A Acquired: 8/28/2017 19:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.7467**
Stddev	.0020
%RSD	.11533
#1	1.7481
#2	1.7452
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3482.0**	**2504.7**	**19736.**	**4123.5**
Stddev	5.7	5.0	8.	34.6
%RSD	.16504	.19863	.03822	.83918
#1	3486.1	2508.2	19741.	4148.0
#2	3477.9	2501.2	19730.	4099.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.568%	93.557%	93.131%	98.492%
Range				

Sample Name: 190-14287-P-2-A Acquired: 8/28/2017 19:40:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.02096**	**.00115**	**.07608**	**.03143**
Stddev	.00088	.00505	.00046	.00030	.00005
%RSD	322.53	24.101	40.488	.39527	.14839
#1	.00090	.01739	.00148	.07629	.03139
#2	-.00035	.02453	.00082	.07587	.03146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**135.72**	**-.00001**	**.0017**	**-.00022**
Stddev	.00007	.04	.00002	.0113	.00015
%RSD	59.827	.02742	395.57	674.1	67.213
#1	-.00017	135.69	.00001	.0096	-.00033
#2	-.00007	135.75	-.00002	-.0063	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00126**	**.03598**	**4.8104**	**-.00231**
Stddev	.00008	.00003	.00164	.0440	.00208
%RSD	100.06	2.3793	4.5539	.91467	90.066
#1	-.00014	.00128	.03714	4.7793	-.00084
#2	-.00002	.00124	.03482	4.8415	-.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-P-2-A Acquired: 8/28/2017 19:40:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.450**	**.03556**	**-.00005**	**168.99**	**.00058**
Stddev	.007	.00012	.00004	1.13	.00010
%RSD	.04604	.34607	82.825	.66658	16.618
#1	14.445	.03548	-.00008	168.20	.00051
#2	14.455	.03565	-.00002	169.79	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**4.6410**	**-.00204**	**.00317**	**4.8856**
Stddev	.00023	.0018	.00007	.00120	.0194
%RSD	28.338	.03898	3.4813	37.922	.39701
#1	-.00097	4.6397	-.00199	.00232	4.8718
#2	-.00064	4.6423	-.00209	.00402	4.8993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**1.3513**	**.00018**	**-.00062**	**.00034**
Stddev	.00014	.0049	.00014	.00152	.00049
%RSD	132.83	.36134	76.699	244.87	142.01
#1	.00020	1.3479	.00008	-.00170	-.00000
#2	.00001	1.3548	.00028	.00045	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-P-2-A Acquired: 8/28/2017 19:40:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00410**
Stddev	.00042
%RSD	10.366
#1	.00380
#2	.00440
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3454.0**	**2503.7**	**19637.**	**4117.8**
Stddev	7.3	5.6	70.	12.6
%RSD	.21002	.22387	.35606	.30709
#1	3459.1	2507.7	19687.	4126.7
#2	3448.8	2499.8	19588.	4108.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.887%	93.521%	92.668%	98.354%
Range				

Sample Name: 190-14287-P-3-A Acquired: 8/28/2017 19:44:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.01254**	**.01362**	**.29836**	**.25558**
Stddev	.00045	.00979	.00013	.00232	.00158
%RSD	462.17	78.083	.92987	.77797	.61789
#1	-.00022	.01946	.01353	.29672	.25447
#2	.00041	.00561	.01371	.30001	.25670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**139.23**	**.00008**	**-.0000**	**-.00032**
Stddev	.00006	.30	.00016	.0163	.00028
%RSD	31.577	.21240	211.22	104400.	89.372
#1	-.00015	139.44	-.00004	.0115	-.00051
#2	-.00023	139.02	.00019	-.0116	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00083**	**2.3775**	**2.4461**	**.00087**
Stddev	.00047	.00053	.0163	.0257	.00057
%RSD	111.05	64.232	.68460	1.0514	65.286
#1	-.00009	.00045	2.3890	2.4279	.00128
#2	-.00075	.00120	2.3660	2.4643	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-P-3-A Acquired: 8/28/2017 19:44:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.415**	**.22683**	**.00152**	**199.74**	**.00165**
Stddev	.178	.00091	.00029	.35	.00007
%RSD	.58434	.39898	19.055	.17394	4.0074
#1	30.289	.22619	.00173	199.49	.00169
#2	30.540	.22747	.00132	199.98	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**21.824**	**-.00131**	**-.00005**	**7.5336**
Stddev	.00156	.035	.00125	.00002	.0256
%RSD	366.72	.16245	95.516	37.219	.33948
#1	.00152	21.849	-.00219	-.00006	7.5517
#2	-.00068	21.799	-.00042	-.00004	7.5156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.27043**	**.00004**	**-.00144**	**-.00048**
Stddev	.00078	.00066	.00042	.00017	.00034
%RSD	953.67	.24410	968.88	12.080	69.869
#1	.00063	.27089	.00034	-.00156	-.00024
#2	-.00047	.26996	-.00025	-.00132	-.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-P-3-A Acquired: 8/28/2017 19:44:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1660**
Stddev	.0017
%RSD	.14790
#1	1.1648
#2	1.1672
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3413.6**	**2483.9**	**19528.**	**4078.9**
Stddev	2.1	.8	53.	13.9
%RSD	.06289	.03254	.27281	.34167
#1	3415.1	2484.5	19565.	4069.1
#2	3412.1	2483.3	19490.	4088.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.906%	92.779%	92.151%	97.427%
Range				

Sample Name: 190-14276-D-1-A Acquired: 8/28/2017 19:47:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.01407**	**.00074**	**.09493**	**.02462**
Stddev	.00011	.00376	.00316	.00005	.00005
%RSD	31.722	26.763	424.06	.05647	.19834
#1	-.00043	.01673	-.00149	.09489	.02466
#2	-.00027	.01140	.00298	.09497	.02459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**162.01**	**.00030**	**.0000**	**.00370**
Stddev	.00004	1.47	.00012	.0011	.00003
%RSD	17.150	.90635	39.415	16540.	.74499
#1	-.00029	160.97	.00022	-.0008	.00368
#2	-.00022	163.05	.00038	.0008	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.00061**	**.03827**	**1.0004**	**-.00498**
Stddev	.00010	.00024	.00142	.0373	.00102
%RSD	20.029	39.969	3.7021	3.7245	20.482
#1	-.00059	.00044	.03727	1.0267	-.00426
#2	-.00044	.00078	.03927	.97401	-.00571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-1-A Acquired: 8/28/2017 19:47:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.345**	**.24343**	**.00003**	**27.664**	**.00387**
Stddev	.134	.00109	.00003	.177	.00043
%RSD	.41347	.44903	112.19	.63846	11.093
#1	32.250	.24266	.00005	27.539	.00418
#2	32.440	.24420	.00001	27.789	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**24.249**	**-.00186**	**.00211**	**5.8058**
Stddev	.00039	.013	.00131	.00169	.0553
%RSD	117.50	.05549	70.323	79.888	.95227
#1	.00006	24.240	-.00279	.00330	5.7667
#2	.00061	24.259	-.00094	.00092	5.8449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.20298**	**-.00049**	**-.00046**	**-.00004**
Stddev	.00036	.00168	.00001	.00090	.00046
%RSD	305.01	.82865	1.4408	194.91	1271.5
#1	.00037	.20179	-.00049	-.00110	-.00036
#2	-.00014	.20417	-.00048	.00018	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-1-A Acquired: 8/28/2017 19:47:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.62188**
Stddev	.00773
%RSD	1.2432
#1	.61641
#2	.62735
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3587.6**	**2540.9**	**20137.**	**4134.1**
Stddev	5.9	4.4	64.	28.7
%RSD	.16345	.17310	.31604	.69533
#1	3591.8	2544.1	20182.	4154.4
#2	3583.5	2537.8	20092.	4113.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.133%	94.911%	95.025%	98.745%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:51:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50069**	**23.789**	**.50054**	**.50584**	**.49158**
Stddev	.00110	.056	.00046	.00004	.00302
%RSD	.22066	.23610	.09109	.00819	.61381
#1	.50147	23.829	.50087	.50587	.48944
#2	.49991	23.750	.50022	.50581	.49371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50063**	**24.488**	**.50004**	**.0170**	**.49098**
Stddev	.00032	.013	.00012	.0189	.00038
%RSD	.06400	.05400	.02386	111.1	.07763
#1	.50040	24.497	.49995	.0304	.49125
#2	.50085	24.479	.50012	.0036	.49071
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50317**	**.50553**	**23.702**	**25.494**	**.50940**
Stddev	.00225	.00009	.023	.034	.00074
%RSD	.44733	.01879	.09895	.13524	.14465
#1	.50476	.50546	23.718	25.518	.50992
#2	.50158	.50559	23.685	25.469	.50887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:51:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.046**	**.51026**	**.49588**	**25.257**	**.49901**
Stddev	.016	.00042	.00032	.019	.00074
%RSD	.06326	.08248	.06459	.07338	.14773
#1	25.035	.51056	.49610	25.271	.49848
#2	25.057	.50996	.49565	25.244	.49953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49386**	**25.297**	**.49779**	**.49889**	**23.751**
Stddev	.00160	.009	.00064	.00142	.016
%RSD	.32390	.03439	.12937	.28402	.06549
#1	.49499	25.291	.49734	.49989	23.762
#2	.49273	25.303	.49825	.49789	23.740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51230**	**.49735**	**.49526**	**.50091**	**.49972**
Stddev	.00110	.00099	.00146	.00047	.00096
%RSD	.21388	.19884	.29471	.09474	.19164
#1	.51153	.49805	.49630	.50125	.50040
#2	.51308	.49665	.49423	.50058	.49905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:51:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50510
Stddev	.00081
%RSD	.15987
#1	.50567
#2	.50452
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3694.0	2623.5	20532.	4093.7
Stddev	6.0	4.8	6.	8.3
%RSD	.16316	.18127	.02828	.20356
#1	3689.7	2620.1	20536.	4099.6
#2	3698.3	2626.9	20528.	4087.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:54:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00509**	**.00043**	**.00045**	**-.00012**
Stddev	.00024	.00642	.00252	.00011	.00001
%RSD	883.33	126.03	589.58	24.757	5.9421
#1	-.00019	-.00055	-.00135	.00053	-.00011
#2	.00014	-.00963	.00221	.00037	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00163**	**-.00013**	**.0042**	**-.00007**
Stddev	.00005	.00049	.00004	.0038	.00007
%RSD	33.158	29.793	34.390	90.33	98.788
#1	-.00019	-.00129	-.00010	.0015	-.00012
#2	-.00012	-.00198	-.00016	.0069	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00007**	**-.00533**	**.00378**	**-.00101**
Stddev	.00017	.00019	.00173	.00836	.00061
%RSD	123.23	260.34	32.480	220.87	60.127
#1	-.00026	-.00021	-.00411	.00969	-.00144
#2	-.00002	.00006	-.00656	-.00213	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:54:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00603**	**-.00006**	**-.00027**	**.04176**	**-.00022**
Stddev	.00091	.00009	.00007	.00098	.00042
%RSD	15.015	140.56	27.264	2.3456	188.56
#1	-.00667	-.00000	-.00032	.04106	-.00052
#2	-.00539	-.00012	-.00022	.04245	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**-.00604**	**-.00046**	**.00364**	**-.01238**
Stddev	.00001	.00198	.00050	.00191	.00584
%RSD	1.4852	32.739	109.02	52.475	47.169
#1	-.00093	-.00464	-.00011	.00500	-.00825
#2	-.00095	-.00744	-.00082	.00229	-.01651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00001**	**.00031**	**.00018**	**.00029**
Stddev	.00012	.00007	.00016	.00148	.00025
%RSD	64.738	512.73	50.390	813.94	85.007
#1	-.00027	-.00007	.00020	-.00087	.00012
#2	-.00010	.00004	.00042	.00123	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:54:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00053**
Stddev	.00008
%RSD	15.465
#1	.00059
#2	.00047
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4139.3**	**2681.3**	**21299.**	**4113.0**
Stddev	7.5	6.8	53.	10.9
%RSD	.18156	.25504	.24750	.26605
#1	4134.0	2676.4	21262.	4105.2
#2	4144.6	2686.1	21336.	4120.7

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:58:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00722**	**.18173**	**.01477**	**.02075**	**.00198**
Stddev	.00015	.00322	.00263	.00028	.00003
%RSD	2.0250	1.7735	17.771	1.3287	1.3349
#1	.00732	.18401	.01663	.02095	.00200
#2	.00712	.17945	.01292	.02056	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**.48980**	**.00187**	**-.0034**	**.00373**
Stddev	.00004	.00104	.00003	.0053	.00018
%RSD	1.9733	.21272	1.6196	155.8	4.6985
#1	.00192	.49054	.00189	.0003	.00385
#2	.00187	.48907	.00185	-.0072	.00360
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00427**	**.01019**	**.04152**	**.52071**	**.03072**
Stddev	.00008	.00015	.00341	.02376	.00050
%RSD	1.7816	1.4370	8.2134	4.5625	1.6206
#1	.00421	.01029	.04393	.50391	.03036
#2	.00432	.01009	.03911	.53750	.03107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:58:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19867**	**.00301**	**.00960**	**1.0615**	**.00968**
Stddev	.00657	.00000	.00021	.0055	.00066
%RSD	3.3087	.12629	2.1358	.52112	6.8040
#1	.20332	.00302	.00975	1.0654	.01014
#2	.19402	.00301	.00946	1.0576	.00921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01022**	**.19433**	**.01907**	**.02584**	**.49408**
Stddev	.00091	.00041	.00031	.00132	.00137
%RSD	8.8762	.21225	1.6215	5.1009	.27720
#1	.00958	.19462	.01929	.02491	.49311
#2	.01087	.19404	.01885	.02678	.49505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00898**	**.00498**	**.00463**	**.01890**	**.00492**
Stddev	.00002	.00006	.00010	.00072	.00044
%RSD	.17796	1.1419	2.0526	3.7972	8.9228
#1	.00899	.00502	.00456	.01941	.00523
#2	.00897	.00494	.00470	.01839	.00461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:58:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01122
Stddev	.00002
%RSD	.19012
#1	.01124
#2	.01121
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4117.7	2681.4	21385.	4120.1
Stddev	3.2	1.8	41.	9.1
%RSD	.07822	.06808	.19043	.22171
#1	4115.4	2682.7	21413.	4126.6
#2	4120.0	2680.1	21356.	4113.7

Sample Name: 190-14276-D-2-A Acquired: 8/28/2017 20:02:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00418**	**.00299**	**.09388**	**.02442**
Stddev	.00078	.01125	.00300	.00052	.00000
%RSD	1624.7	269.43	100.40	.55192	.00874
#1	-.00060	.00378	.00087	.09424	.02442
#2	.00050	-.01213	.00511	.09351	.02442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**160.07**	**.00024**	**-.0114**	**.00370**
Stddev	.00000	.41	.00006	.0200	.00007
%RSD	1.0423	.25349	24.093	175.8	1.8917
#1	-.00012	159.78	.00028	.0028	.00375
#2	-.00012	160.35	.00020	-.0255	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00296**	**.04101**	**.96405**	**-.00296**
Stddev	.00077	.00098	.00030	.05320	.00206
%RSD	271.09	33.017	.73277	5.5186	69.495
#1	.00026	.00366	.04079	.92643	-.00151
#2	-.00083	.00227	.04122	1.0017	-.00441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-2-A Acquired: 8/28/2017 20:02:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.063**	**.24196**	**.00015**	**27.335**	**.00394**
Stddev	.020	.00032	.00018	.016	.00012
%RSD	.06117	.13021	116.28	.05772	3.0778
#1	32.049	.24219	.00003	27.324	.00403
#2	32.077	.24174	.00028	27.346	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**24.056**	**.00061**	**.00089**	**5.7752**
Stddev	.00116	.046	.00021	.00306	.0293
%RSD	642.00	.19056	34.343	344.08	.50752
#1	.00064	24.088	.00076	-.00128	5.7545
#2	-.00100	24.023	.00046	.00306	5.7959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.20182**	**-.00025**	**-.00161**	**-.00021**
Stddev	.00044	.00083	.00037	.00060	.00008
%RSD	1328.4	.40932	145.85	37.312	36.988
#1	-.00028	.20124	.00001	-.00119	-.00016
#2	.00034	.20240	-.00051	-.00204	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-2-A Acquired: 8/28/2017 20:02:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.65686
Stddev	.00246
%RSD	.37425
#1	.65859
#2	.65512
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3587.5	2539.2	20163.	4163.6
Stddev	4.1	.3	52.	22.5
%RSD	.11344	.00997	.26004	.54002
#1	3590.3	2539.0	20126.	4179.5
#2	3584.6	2539.4	20200.	4147.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.129%	94.846%	95.149%	99.449%
Range				

Sample Name: 190-14276-D-3-A Acquired: 8/28/2017 20:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.02868**	**.00751**	**1.2897**	**.07318**
Stddev	.00014	.00896	.00182	.0016	.00038
%RSD	27.505	31.240	24.232	.12659	.51612
#1	.00062	.03501	.00622	1.2909	.07291
#2	.00042	.02234	.00880	1.2886	.07344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**90.802**	**.00001**	**-.0103**	**.00020**
Stddev	.00003	.210	.00004	.0128	.00019
%RSD	20.192	.23083	758.16	124.1	93.406
#1	-.00012	90.654	.00004	-.0013	.00033
#2	-.00017	90.950	-.00002	-.0194	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00157**	**2.6366**	**8.8454**	**.00193**
Stddev	.00006	.00016	.0027	.0057	.00079
%RSD	52.890	10.297	.10447	.06413	40.993
#1	-.00007	.00146	2.6386	8.8495	.00137
#2	-.00015	.00169	2.6347	8.8414	.00248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-3-A Acquired: 8/28/2017 20:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.980**	**.71123**	**.01221**	**178.97**	**.00474**
Stddev	.154	.00349	.00020	.58	.00002
%RSD	.61498	.49127	1.6419	.32541	.37346
#1	24.871	.70876	.01206	178.56	.00473
#2	25.089	.71370	.01235	179.39	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**34.330**	**.00128**	**.00088**	**7.5661**
Stddev	.00173	.014	.00044	.00224	.0223
%RSD	115.64	.04065	34.090	253.71	.29537
#1	.00027	34.320	.00158	.00247	7.5819
#2	.00272	34.340	.00097	-.00070	7.5503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**1.1333**	**.00014**	**-.00050**	**.00001**
Stddev	.00071	.0032	.00037	.00085	.00008
%RSD	402.39	.27804	262.02	169.93	606.13
#1	.00068	1.1311	.00040	-.00110	.00007
#2	-.00033	1.1356	-.00012	.00010	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-3-A Acquired: 8/28/2017 20:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.09862
Stddev	.00002
%RSD	.02337
#1	.09861
#2	.09864
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3481.1	2517.1	19804.	4119.6
Stddev	3.5	1.5	24.	9.5
%RSD	.10090	.06019	.12289	.23002
#1	3483.6	2516.0	19821.	4126.3
#2	3478.6	2518.1	19786.	4112.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.546%	94.018%	93.452%	98.398%
Range				

Sample Name: 190-14276-D-4-A Acquired: 8/28/2017 20:09:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00279**	**.02760**	**.09997**	**.15803**
Stddev	.00060	.01691	.00031	.00058	.00041
%RSD	107.12	606.60	1.1199	.57750	.25975
#1	.00014	.01475	.02782	.10038	.15832
#2	.00098	-.00917	.02738	.09956	.15774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**69.785**	**.00010**	**.0260**	**-.00019**
Stddev	.00001	.012	.00006	.0088	.00018
%RSD	3.0667	.01785	61.197	34.03	92.871
#1	-.00022	69.794	.00014	.0322	-.00007
#2	-.00021	69.776	.00006	.0197	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00222**	**1.0731**	**1.5454**	**.01083**
Stddev	.00045	.00022	.0016	.0423	.00213
%RSD	64.665	9.8671	.14820	2.7403	19.627
#1	.00038	.00206	1.0742	1.5753	.00933
#2	.00101	.00237	1.0719	1.5154	.01233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-4-A Acquired: 8/28/2017 20:09:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.651**	**.01593**	**.01814**	**17.522**	**.00016**
Stddev	.093	.00005	.00000	.006	.00012
%RSD	.31246	.30773	.00279	.03581	75.064
#1	29.717	.01596	.01814	17.517	.00007
#2	29.586	.01589	.01814	17.526	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**7.3528**	**-.00132**	**.00160**	**8.4305**
Stddev	.00086	.0045	.00128	.00209	.0031
%RSD	92.608	.06088	97.572	130.45	.03642
#1	.00032	7.3560	-.00222	.00307	8.4327
#2	.00154	7.3496	-.00041	.00012	8.4283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.54524**	**-.00042**	**-.00069**	**.00022**
Stddev	.00040	.00080	.00006	.00014	.00011
%RSD	150.71	.14741	13.250	20.786	51.626
#1	-.00054	.54581	-.00038	-.00079	.00030
#2	.00002	.54468	-.00046	-.00059	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-4-A Acquired: 8/28/2017 20:09:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00478**
Stddev	.00069
%RSD	14.397
#1	.00429
#2	.00527
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3742.4**	**2600.4**	**20591.**	**4155.5**
Stddev	1.4	6.1	7.	12.7
%RSD	.03716	.23429	.03558	.30564
#1	3741.4	2596.0	20586.	4146.5
#2	3743.4	2604.7	20596.	4164.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.892%	97.129%	97.167%	99.255%
Range				

Sample Name: 190-14276-D-5-A Acquired: 8/28/2017 20:12:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.01003**	**.00196**	**.14068**	**.03404**
Stddev	.00031	.00042	.00135	.00004	.00005
%RSD	216.96	4.1819	68.837	.03106	.13314
#1	.00036	.00973	.00291	.14065	.03407
#2	-.00008	.01033	.00100	.14071	.03400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**111.37**	**.00012**	**.0102**	**-.00001**
Stddev	.00002	.54	.00002	.0133	.00006
%RSD	13.378	.48355	16.249	130.7	533.13
#1	-.00015	111.75	.00013	.0196	.00003
#2	-.00012	110.99	.00011	.0008	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00416**	**.02025**	**3.8300**	**-.00105**
Stddev	.00021	.00070	.00136	.0102	.00092
%RSD	73.109	16.806	6.7171	.26642	87.776
#1	-.00043	.00466	.02121	3.8228	-.00040
#2	-.00014	.00367	.01929	3.8372	-.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-5-A Acquired: 8/28/2017 20:12:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.882**	**.07928**	**-.00003**	**54.300**	**.00215**
Stddev	.027	.00015	.00013	.368	.00004
%RSD	.13448	.18422	408.93	.67836	1.9279
#1	19.901	.07917	.00006	54.561	.00218
#2	19.863	.07938	-.00013	54.040	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**26.517**	**.00043**	**.00341**	**4.2476**
Stddev	.00053	.014	.00031	.00213	.0247
%RSD	77.144	.05146	73.340	62.488	.58150
#1	-.00105	26.527	.00065	.00190	4.2651
#2	-.00031	26.508	.00021	.00491	4.2302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**1.6146**	**-.00039**	**-.00089**	**.00016**
Stddev	.00025	.0053	.00013	.00090	.00011
%RSD	138.87	.32616	33.750	100.40	69.731
#1	.00000	1.6183	-.00029	-.00153	.00008
#2	.00035	1.6109	-.00048	-.00026	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-5-A Acquired: 8/28/2017 20:12:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00361
Stddev	.00045
%RSD	12.545
#1	.00393
#2	.00329
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3623.3	2543.9	20216.	4139.7
Stddev	1.2	2.2	12.	11.5
%RSD	.03239	.08594	.06081	.27726
#1	3624.1	2545.5	20224.	4131.6
#2	3622.4	2542.4	20207.	4147.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.999%	95.022%	95.397%	98.879%
Range				

Sample Name: 190-14276-D-6-A Acquired: 8/28/2017 20:16:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.04928**	**-.00035**	**.12880**	**.23694**
Stddev	.00036	.00215	.00038	.00076	.00005
%RSD	167.37	4.3653	108.92	.59116	.01932
#1	-.00004	.04776	-.00062	.12826	.23697
#2	.00047	.05080	-.00008	.12933	.23690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**111.04**	**.00015**	**.0258**	**-.00015**
Stddev	.00004	.01	.00006	.0169	.00004
%RSD	17.028	.01192	44.213	65.78	29.408
#1	-.00019	111.05	.00010	.0138	-.00012
#2	-.00024	111.03	.00019	.0377	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00149**	**2.5117**	**2.1380**	**.00608**
Stddev	.00004	.00049	.0003	.0206	.00015
%RSD	21.214	32.810	.01251	.96340	2.4089
#1	-.00022	.00115	2.5119	2.1525	.00619
#2	-.00016	.00184	2.5115	2.1234	.00598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-6-A Acquired: 8/28/2017 20:16:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.824**	**.06244**	**.00218**	**90.512**	**.00053**
Stddev	.036	.00009	.00004	.019	.00027
%RSD	.09646	.14973	1.7066	.02117	50.028
#1	36.799	.06237	.00221	90.526	.00034
#2	36.849	.06250	.00216	90.498	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**6.9703**	**-.00084**	**-.00005**	**6.7766**
Stddev	.00015	.0121	.00184	.00214	.0192
%RSD	10.956	.17347	219.84	4422.1	.28256
#1	.00127	6.9788	-.00214	-.00156	6.7631
#2	.00149	6.9617	.00047	.00146	6.7901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.61774**	**-.00014**	**-.00085**	**-.00000**
Stddev	.00046	.00092	.00023	.00003	.00016
%RSD	383.47	.14815	162.48	3.2342	5123.1
#1	.00020	.61710	-.00031	-.00083	.00011
#2	-.00044	.61839	.00002	-.00087	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-6-A Acquired: 8/28/2017 20:16:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.53843**
Stddev	.00264
%RSD	.49088
#1	.54030
#2	.53656
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3539.3**	**2525.9**	**19967.**	**4109.6**
Stddev	3.0	.7	19.	3.6
%RSD	.08519	.02606	.09441	.08729
#1	3537.1	2525.5	19953.	4112.2
#2	3541.4	2526.4	19980.	4107.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.958%	94.350%	94.222%	98.161%
Range				

Sample Name: 190-14295-D-1-A Acquired: 8/28/2017 20:19:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00607**	**-.00086**	**.03956**	**.14628**
Stddev	.00022	.01552	.00038	.00014	.00042
%RSD	269.78	255.74	44.598	.34252	.28962
#1	-.00024	-.01704	-.00059	.03966	.14658
#2	.00007	.00491	-.00113	.03946	.14598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**84.800**	**.00017**	**.0119**	**-.00031**
Stddev	.00002	.288	.00001	.0146	.00014
%RSD	7.2600	.33962	5.0968	122.6	45.211
#1	-.00022	84.596	.00016	.0016	-.00041
#2	-.00020	85.003	.00018	.0222	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.00189**	**.88017**	**1.2004**	**.00548**
Stddev	.00056	.00015	.00578	.0143	.00199
%RSD	88.679	8.0926	.65667	1.1917	36.247
#1	-.00104	.00178	.87609	1.1903	.00407
#2	-.00024	.00200	.88426	1.2105	.00688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-1-A Acquired: 8/28/2017 20:19:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.869**	**.01953**	**.00367**	**12.284**	**.00049**
Stddev	.081	.00004	.00018	.062	.00002
%RSD	.29208	.21158	5.0323	.50730	4.9799
#1	27.927	.01951	.00380	12.240	.00051
#2	27.812	.01956	.00354	12.328	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**7.4939**	**-.00093**	**.00039**	**6.9314**
Stddev	.00184	.0085	.00041	.00329	.0625
%RSD	720.00	.11391	44.174	835.02	.90180
#1	-.00155	7.5000	-.00121	.00272	6.8872
#2	.00104	7.4879	-.00064	-.00193	6.9756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.30261**	**-.00034**	**-.00041**	**-.00009**
Stddev	.00004	.00125	.00011	.00094	.00031
%RSD	7.8314	.41416	31.348	229.19	356.80
#1	-.00051	.30173	-.00026	.00025	.00013
#2	-.00057	.30350	-.00041	-.00107	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-1-A Acquired: 8/28/2017 20:19:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.09586
Stddev	.00121
%RSD	1.2654
#1	.09501
#2	.09672
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3728.4	2590.2	20546.	4154.0
Stddev	2.5	3.5	135.	8.8
%RSD	.06682	.13336	.65632	.21149
#1	3726.6	2587.8	20451.	4160.2
#2	3730.2	2592.7	20642.	4147.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.552%	96.751%	96.957%	99.219%
Range				

Sample Name: 190-14295-D-2-A Acquired: 8/28/2017 20:23:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00727**	**-.00089**	**.09612**	**.24934**
Stddev	.00054	.00793	.00264	.00064	.00043
%RSD	377.29	109.11	296.35	.66739	.17387
#1	.00053	-.00166	.00098	.09566	.24965
#2	-.00024	-.01288	-.00276	.09657	.24903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**212.85**	**.00004**	**-.0047**	**.00055**
Stddev	.00001	.95	.00006	.0128	.00017
%RSD	5.3254	.44600	160.92	273.9	30.310
#1	-.00017	213.52	-.00001	-.0138	.00044
#2	-.00019	212.18	.00008	.0044	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00005**	**1.0372**	**5.4368**	**.00455**
Stddev	.00041	.00013	.0012	.0030	.00183
%RSD	74.740	243.84	.11810	.05581	40.246
#1	.00084	.00015	1.0381	5.4347	.00326
#2	.00026	-.00004	1.0363	5.4390	.00585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-2-A Acquired: 8/28/2017 20:23:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.247**	**.45994**	**.00023**	**295.84**	**.00318**
Stddev	.015	.00045	.00013	.73	.00036
%RSD	.03253	.09704	57.393	.24779	11.206
#1	45.257	.45962	.00033	296.36	.00344
#2	45.236	.46026	.00014	295.32	.00293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**36.008**	**-.00064**	**-.00024**	**5.7539**
Stddev	.00277	.083	.00023	.00136	.0180
%RSD	470.27	.23070	36.045	575.88	.31257
#1	-.00254	35.950	-.00080	.00072	5.7666
#2	.00137	36.067	-.00048	-.00120	5.7412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**1.5553**	**-.00052**	**-.00142**	**-.00038**
Stddev	.00122	.0025	.00031	.00131	.00016
%RSD	444.48	.16099	59.696	92.202	43.199
#1	-.00114	1.5571	-.00030	-.00234	-.00026
#2	.00059	1.5535	-.00074	-.00049	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-2-A Acquired: 8/28/2017 20:23:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.53750**
Stddev	.00137
%RSD	.25439
#1	.53847
#2	.53653
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3282.9**	**2433.1**	**19059.**	**4035.9**
Stddev	5.7	3.9	51.	11.0
%RSD	.17341	.15923	.26581	.27200
#1	3286.9	2435.8	19023.	4028.2
#2	3278.8	2430.4	19094.	4043.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.732%	90.882%	89.937%	96.400%
Range				

Sample Name: 190-14295-D-3-A Acquired: 8/28/2017 20:27:05 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01309**	**.02331**	**.21899**	**.29797**
Stddev	.00069	.01131	.00366	.00022	.00892
%RSD	5022.9	86.421	15.721	.09954	2.9924
#1	-.00050	.02108	.02590	.21914	.29166
#2	.00047	.00509	.02072	.21883	.30427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**136.84**	**.00018**	**.0365**	**.00159**
Stddev	.00001	1.46	.00000	.0084	.00012
%RSD	12.507	1.0644	.11402	23.00	7.2536
#1	-.00010	135.81	.00018	.0305	.00151
#2	-.00011	137.87	.00018	.0424	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.00032**	**5.4768**	**12.573**	**.00408**
Stddev	.00022	.00002	.0472	.030	.00213
%RSD	69.305	5.4130	.86203	.23591	52.164
#1	-.00016	-.00034	5.4434	12.552	.00258
#2	-.00046	-.00031	5.5101	12.594	.00559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-3-A Acquired: 8/28/2017 20:27:05 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.184**	**.10435**	**.00175**	**78.917**	**.00630**
Stddev	1.475	.00357	.00029	.860	.00007
%RSD	3.2653	3.4175	16.256	1.0898	1.1683
#1	44.141	.10183	.00196	78.309	.00625
#2	46.227	.10688	.00155	79.525	.00635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00157**	**9.6397**	**.00081**	**.00034**	**10.178**
Stddev	.00027	.0076	.00035	.00135	.117
%RSD	17.011	.07891	42.812	392.80	1.1484
#1	.00176	9.6451	.00105	-.00061	10.095
#2	.00138	9.6343	.00056	.00130	10.261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.30392**	**-.00014**	**-.00089**	**-.00029**
Stddev	.00027	.00399	.00083	.00030	.00070
%RSD	766.07	1.3145	609.65	34.318	239.16
#1	.00016	.30110	.00045	-.00110	.00020
#2	-.00023	.30675	-.00072	-.00067	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-3-A Acquired: 8/28/2017 20:27:05 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00677**
Stddev	.00088
%RSD	12.939
#1	.00615
#2	.00739
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3504.8**	**2519.6**	**19555.**	**4110.0**
Stddev	2.8	1.9	467.	34.7
%RSD	.08050	.07635	2.3892	.84531
#1	3506.8	2518.3	19885.	4134.5
#2	3502.9	2521.0	19224.	4085.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.123%	94.115%	92.277%	98.168%
Range				

Sample Name: 190-14295-D-4-A Acquired: 8/28/2017 20:30:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.01374**	**.02568**	**.14264**	**.17021**
Stddev	.00001	.01666	.00096	.00072	.00101
%RSD	1.4915	121.23	3.7434	.50299	.59117
#1	.00040	.02552	.02636	.14314	.17092
#2	.00041	.00196	.02500	.14213	.16950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**71.590**	**.00014**	**.0078**	**-.00025**
Stddev	.00005	.059	.00008	.0276	.00011
%RSD	24.852	.08311	58.194	352.3	45.878
#1	-.00023	71.632	.00008	.0274	-.00017
#2	-.00016	71.548	.00020	-.0117	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00212**	**1.2919**	**1.8864**	**.01012**
Stddev	.00040	.00059	.0054	.0583	.00042
%RSD	140.83	28.001	.42048	3.0914	4.1735
#1	-.00000	.00170	1.2957	1.9277	.01041
#2	-.00056	.00253	1.2880	1.8452	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-4-A Acquired: 8/28/2017 20:30:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.542**	**.02089**	**.02015**	**27.763**	**.00057**
Stddev	.177	.00011	.00009	.012	.00021
%RSD	.54496	.54431	.43170	.04258	37.476
#1	32.667	.02097	.02021	27.771	.00042
#2	32.416	.02081	.02009	27.755	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**5.0184**	**.00070**	**.00397**	**8.6354**
Stddev	.00009	.0077	.00169	.00017	.0309
%RSD	10.036	.15371	242.85	4.3115	.35742
#1	.00082	5.0238	.00189	.00385	8.6136
#2	.00095	5.0129	-.00050	.00409	8.6572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.63705**	**.00002**	**-.00145**	**.00007**
Stddev	.00040	.00020	.00006	.00037	.00036
%RSD	462.33	.03131	368.56	25.298	526.97
#1	-.00037	.63719	-.00003	-.00171	.00032
#2	.00019	.63690	.00006	-.00119	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-4-A Acquired: 8/28/2017 20:30:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.37613**
Stddev	.00083
%RSD	.22182
#1	.37672
#2	.37554
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3701.2**	**2582.0**	**20412.**	**4110.9**
Stddev	6.1	4.1	86.	6.4
%RSD	.16581	.16035	.41958	.15645
#1	3696.9	2579.1	20351.	4106.3
#2	3705.6	2584.9	20472.	4115.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.893%	96.444%	96.322%	98.190%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 20:34:14 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50729**	**24.009**	**.50268**	**.50590**	**.48851**
Stddev	.00090	.121	.00127	.00108	.00009
%RSD	.17691	.50487	.25206	.21316	.01806
#1	.50666	24.095	.50178	.50667	.48857
#2	.50793	23.924	.50357	.50514	.48844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50168**	**24.616**	**.49942**	**-.0067**	**.48922**
Stddev	.00224	.083	.00051	.0073	.00014
%RSD	.44627	.33783	.10208	109.9	.02876
#1	.50326	24.675	.49978	-.0118	.48932
#2	.50010	24.557	.49906	-.0015	.48912
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51027**	**.50078**	**23.782**	**25.433**	**.51236**
Stddev	.00145	.00010	.136	.152	.00107
%RSD	.28468	.01905	.57205	.59841	.20879
#1	.50924	.50071	23.878	25.541	.51311
#2	.51129	.50084	23.686	25.326	.51160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 20:34:14 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.874**	**.50771**	**.50043**	**25.322**	**.49677**
Stddev	.050	.00013	.00082	.057	.00040
%RSD	.20036	.02651	.16321	.22399	.08099
#1	24.909	.50761	.49985	25.362	.49705
#2	24.838	.50780	.50101	25.282	.49649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49659**	**25.357**	**.49778**	**.50628**	**23.910**
Stddev	.00007	.019	.00089	.00445	.127
%RSD	.01490	.07616	.17975	.87977	.53135
#1	.49664	25.371	.49715	.50943	23.999
#2	.49653	25.343	.49841	.50313	23.820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51197**	**.50149**	**.49725**	**.50459**	**.50319**
Stddev	.00042	.00190	.00079	.00052	.00065
%RSD	.08167	.37873	.15819	.10296	.12837
#1	.51227	.50283	.49669	.50422	.50273
#2	.51168	.50015	.49781	.50495	.50365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 20:34:14 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50788**
Stddev	.00009
%RSD	.01868
#1	.50795
#2	.50782
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3704.1**	**2621.7**	**20537.**	**4084.8**
Stddev	6.0	4.4	10.	14.1
%RSD	.16203	.16933	.05051	.34402
#1	3699.9	2618.6	20529.	4074.9
#2	3708.4	2624.9	20544.	4094.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 20:37:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.01675**	**.00213**	**.00068**	**-.00012**
Stddev	.00020	.00284	.00061	.00002	.00001
%RSD	435.33	16.931	28.728	2.3684	11.050
#1	-.00019	.01475	.00169	.00069	-.00013
#2	.00009	.01876	.00256	.00066	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00199**	**-.00026**	**-.0071**	**-.00015**
Stddev	.00009	.00092	.00011	.0264	.00000
%RSD	35.896	46.262	42.617	372.8	3.0158
#1	-.00033	-.00264	-.00018	-.0257	-.00015
#2	-.00020	-.00134	-.00033	.0116	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00007**	**-.00785**	**.02614**	**-.00100**
Stddev	.00009	.00174	.00060	.02443	.00151
%RSD	261.39	2477.3	7.6825	93.433	151.03
#1	.00009	.00130	-.00742	.04342	.00007
#2	-.00003	-.00116	-.00828	.00887	-.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 20:37:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00681**	**-.00009**	**-.00029**	**.03169**	**.00028**
Stddev	.00139	.00005	.00001	.00074	.00003
%RSD	20.398	50.702	4.6044	2.3343	12.389
#1	-.00779	-.00006	-.00029	.03221	.00025
#2	-.00583	-.00012	-.00028	.03116	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.00579**	**.00069**	**.00387**	**-.01678**
Stddev	.00127	.00404	.00018	.00139	.00515
%RSD	278.80	69.878	25.836	35.808	30.670
#1	.00044	-.00865	.00082	.00485	-.01314
#2	-.00135	-.00293	.00057	.00289	-.02042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00003**	**.00041**	**-.00070**	**.00057**
Stddev	.00002	.00000	.00044	.00189	.00021
%RSD	5.3333	10.827	107.93	269.56	36.345
#1	-.00030	-.00004	.00072	.00064	.00072
#2	-.00028	-.00003	.00010	-.00204	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 20:37:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00032**
Stddev	.00013
%RSD	40.765
#1	.00023
#2	.00041
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4127.4**	**2668.3**	**21170.**	**4129.5**
Stddev	18.0	11.3	52.	23.7
%RSD	.43574	.42192	.24490	.57479
#1	4114.7	2660.4	21207.	4146.3
#2	4140.1	2676.3	21133.	4112.8

Sample Name: CCVL-4195955 Acquired: 8/28/2017 20:41:22 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00562**	**.17176**	**.01250**	**.02055**	**.00198**
Stddev	.00003	.01494	.00016	.00006	.00001
%RSD	.51240	8.6980	1.2800	.30013	.49823
#1	.00564	.16120	.01238	.02059	.00198
#2	.00560	.18233	.01261	.02051	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**.49208**	**.00192**	**-.0088**	**.00368**
Stddev	.00002	.00364	.00013	.0198	.00013
%RSD	1.1985	.73964	6.5260	225.6	3.4956
#1	.00189	.48951	.00183	.0052	.00377
#2	.00192	.49466	.00201	-.0228	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.00945**	**.04017**	**.54520**	**.03009**
Stddev	.00011	.00118	.00400	.08683	.00200
%RSD	2.5187	12.430	9.9545	15.926	6.6454
#1	.00441	.01028	.03734	.60660	.02868
#2	.00457	.00862	.04300	.48380	.03151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 20:41:22 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19628**	**.00289**	**.00974**	**1.0482**	**.00956**
Stddev	.00128	.00008	.00005	.0098	.00004
%RSD	.65163	2.7022	.46442	.93420	.37561
#1	.19538	.00283	.00978	1.0551	.00959
#2	.19719	.00294	.00971	1.0413	.00954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00901**	**.19565**	**.02026**	**.02436**	**.47784**
Stddev	.00006	.00608	.00048	.00141	.00541
%RSD	.65763	3.1055	2.3819	5.8024	1.1326
#1	.00906	.19135	.01992	.02536	.48166
#2	.00897	.19994	.02060	.02336	.47401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00898**	**.00498**	**.00455**	**.01903**	**.00494**
Stddev	.00008	.00002	.00026	.00025	.00002
%RSD	.88947	.46535	5.7977	1.3097	.49922
#1	.00903	.00499	.00474	.01886	.00496
#2	.00892	.00496	.00437	.01921	.00492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 20:41:22 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01210
Stddev	.00086
%RSD	7.0784
#1	.01150
#2	.01271
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4119.4	2681.9	21375.	4145.4
Stddev	2.1	4.3	113.	8.2
%RSD	.05211	.15947	.52924	.19748
#1	4120.9	2684.9	21295.	4151.2
#2	4117.9	2678.8	21455.	4139.6

Sample Name: 480-123285-E-1-A Acquired: 8/28/2017 20:45:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.06598**	**.05894**	**11.457**	**.21785**
Stddev	.00001	.00807	.00179	.022	.00061
%RSD	1.3222	12.227	3.0399	.19104	.28140
#1	.00069	.07168	.05768	11.441	.21828
#2	.00068	.06027	.06021	11.472	.21741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**111.67**	**.00037**	**-.0108**	**.02698**
Stddev	.00003	.31	.00030	.0210	.00016
%RSD	18.457	.27939	81.123	194.6	.58552
#1	-.00018	111.45	.00058	.0041	.02687
#2	-.00014	111.89	.00016	-.0257	.02709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08992**	**3.4574**	**2.9028**	**466.32**	**.06519**
Stddev	.00066	.0136	.0196	2.38	.00045
%RSD	.73272	.39198	.67481	.51021	.69442
#1	.09039	3.4670	2.8890	464.64	.06551
#2	.08946	3.4478	2.9167	468.00	.06487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-1-A Acquired: 8/28/2017 20:45:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.110**	**.27895**	**.00458**	**1317.7**	**.19205**
Stddev	.121	.00075	.00041	5.1	.00093
%RSD	.15233	.26876	8.8896	.38572	.48499
#1	79.195	.27949	.00429	1314.1	.19139
#2	79.025	.27842	.00487	1321.3	.19271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00409**	**17.264**	**.00941**	**.00248**	**12.966**
Stddev	.00016	.051	.00001	.00267	.067
%RSD	3.9873	.29660	.12388	107.63	.51342
#1	.00397	17.227	.00942	.00059	12.919
#2	.00420	17.300	.00940	.00437	13.013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01224**	**.92501**	**.03145**	**-.00223**	**.05324**
Stddev	.00070	.00004	.00062	.00284	.00133
%RSD	5.6966	.00412	1.9703	126.98	2.4914
#1	.01274	.92498	.03102	-.00424	.05418
#2	.01175	.92504	.03189	-.00023	.05231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-1-A Acquired: 8/28/2017 20:45:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1650**
Stddev	.0025
%RSD	.21367
#1	1.1668
#2	1.1632
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2926.7**	**2327.0**	**17827.**	**4102.2**
Stddev	1.2	.7	66.	28.1
%RSD	.04205	.02853	.36989	.68554
#1	2925.8	2327.5	17781.	4122.1
#2	2927.5	2326.6	17874.	4082.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.080%	86.920%	84.126%	97.984%
Range				

Sample Name: 480-123285-E-2-A Acquired: 8/28/2017 20:48:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.20944**	**.08154**	**11.420**	**.34934**
Stddev	.00025	.00003	.00126	.025	.00074
%RSD	78.893	.01245	1.5469	.22029	.21301
#1	.00014	.20942	.08064	11.402	.34881
#2	.00050	.20946	.08243	11.437	.34986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**115.00**	**.00020**	**-.0026**	**.02785**
Stddev	.00008	.42	.00006	.0288	.00013
%RSD	62.251	.36545	28.027	1102.	.45333
#1	-.00008	115.30	.00024	-.0230	.02776
#2	-.00020	114.70	.00016	.0178	.02794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10819**	**.00796**	**9.4505**	**463.60**	**.06493**
Stddev	.00038	.00009	.0168	.00	.00054
%RSD	.34854	1.1132	.17794	.00087	.83616
#1	.10793	.00789	9.4386	463.59	.06532
#2	.10846	.00802	9.4623	463.60	.06455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-2-A Acquired: 8/28/2017 20:48:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.181**	**.32452**	**.00547**	**1315.9**	**.19087**
Stddev	.260	.00140	.00003	.3	.00053
%RSD	.32785	.43121	.54161	.02289	.27696
#1	78.998	.32353	.00549	1315.7	.19049
#2	79.365	.32551	.00545	1316.1	.19124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00409**	**18.533**	**.01010**	**.00241**	**12.993**
Stddev	.00022	.040	.00061	.00148	.041
%RSD	5.4141	.21803	6.0501	61.255	.31307
#1	.00393	18.505	.01053	.00137	13.022
#2	.00424	18.562	.00967	.00346	12.964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01940**	**.96781**	**.08800**	**-.00239**	**.06744**
Stddev	.00007	.00601	.00030	.00041	.00047
%RSD	.36239	.62126	.33638	17.065	.70131
#1	.01945	.97206	.08779	-.00268	.06777
#2	.01935	.96356	.08821	-.00210	.06710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-2-A Acquired: 8/28/2017 20:48:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.06664
Stddev	.00042
%RSD	.63336
#1	.06635
#2	.06694
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2926.8	2320.2	17851.	4103.5
Stddev	2.7	6.9	2.	26.4
%RSD	.09165	.29900	.01084	.64229
#1	2928.7	2325.1	17849.	4084.8
#2	2924.9	2315.3	17852.	4122.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.082%	86.666%	84.237%	98.013%
Range				

Sample Name: 480-123285-E-3-A Acquired: 8/28/2017 20:52:13 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.08001**	**.05937**	**11.392**	**.19708**
Stddev	.00039	.02896	.00099	.007	.00032
%RSD	119.16	36.193	1.6673	.05930	.16141
#1	.00005	.05953	.06007	11.397	.19686
#2	.00061	.10049	.05867	11.387	.19731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**103.36**	**.00033**	**-.0070**	**.02669**
Stddev	.00007	.47	.00009	.0405	.00004
%RSD	43.476	.45100	26.461	581.7	.16291
#1	-.00022	103.69	.00039	.0217	.02665
#2	-.00011	103.03	.00027	-.0356	.02672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08819**	**1.1417**	**2.3556**	**459.26**	**.06667**
Stddev	.00020	.0016	.0058	1.49	.00048
%RSD	.22158	.13821	.24745	.32537	.71561
#1	.08805	1.1406	2.3597	460.32	.06701
#2	.08833	1.1429	2.3515	458.21	.06634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-3-A Acquired: 8/28/2017 20:52:13 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.559**	**.21249**	**.00481**	**1307.2**	**.18661**
Stddev	.360	.00065	.00010	5.1	.00117
%RSD	.45784	.30519	2.1333	.39055	.62755
#1	78.305	.21203	.00488	1310.8	.18579
#2	78.814	.21295	.00474	1303.6	.18744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00292**	**17.081**	**.00914**	**.00303**	**12.924**
Stddev	.00136	.020	.00242	.00436	.066
%RSD	46.675	.11658	26.472	143.88	.51135
#1	.00195	17.095	.01085	-.00005	12.971
#2	.00388	17.067	.00743	.00611	12.878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03793**	**.91325**	**.02842**	**-.00217**	**.05218**
Stddev	.00053	.00195	.00066	.00040	.00097
%RSD	1.3946	.21331	2.3293	18.563	1.8583
#1	.03755	.91463	.02889	-.00189	.05286
#2	.03830	.91188	.02795	-.00246	.05149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-3-A Acquired: 8/28/2017 20:52:13 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.48887**
Stddev	.00330
%RSD	.67549
#1	.48654
#2	.49121
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2936.5**	**2329.6**	**17870.**	**4072.4**
Stddev	2.2	3.9	30.	27.4
%RSD	.07413	.16751	.16664	.67322
#1	2935.0	2326.8	17891.	4053.0
#2	2938.0	2332.3	17849.	4091.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.319%	87.015%	84.327%	97.270%
Range				

Sample Name: blank Acquired: 8/28/2017 20:55:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00022**	**-.00074**	**.02310**	**-.00007**
Stddev	.00043	.00488	.00055	.00202	.00001
%RSD	127.28	2268.1	73.978	8.7485	10.492
#1	.00064	.00367	-.00113	.02453	-.00007
#2	.00003	-.00324	-.00036	.02167	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.01464**	**-.00016**	**.0038**	**.00007**
Stddev	.00007	.00050	.00005	.0046	.00011
%RSD	43.137	3.3997	30.191	121.5	164.88
#1	-.00011	.01429	-.00013	.0071	-.00001
#2	-.00021	.01500	-.00020	.0005	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00011**	**-.00198**	**.34053**	**-.00027**
Stddev	.00045	.00095	.00141	.01778	.00147
%RSD	508.94	877.88	70.934	5.2205	539.42
#1	-.00023	.00056	-.00298	.35310	-.00131
#2	.00040	-.00078	-.00099	.32796	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 20:55:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00216**	**.00014**	**-.00033**	**.19941**	**.00011**
Stddev	.00481	.00002	.00016	.01453	.00046
%RSD	222.59	14.164	50.308	7.2882	396.18
#1	.00556	.00016	-.00044	.20969	.00044
#2	-.00124	.00013	-.00021	.18913	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.00003**	**.00023**	**.00125**	**.07678**
Stddev	.00098	.00155	.00011	.00006	.00858
%RSD	149.77	5112.5	47.640	4.6973	11.171
#1	.00004	.00107	.00031	.00129	.07071
#2	-.00134	-.00113	.00015	.00121	.08284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00011**	**.00003**	**-.00190**	**.00044**
Stddev	.00063	.00002	.00029	.00143	.00019
%RSD	236.78	15.695	831.60	75.168	43.100
#1	.00018	.00010	.00024	-.00089	.00058
#2	-.00071	.00012	-.00017	-.00291	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 20:55:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00425**
Stddev	.00014
%RSD	3.2102
#1	.00434
#2	.00415
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4116.5**	**2666.6**	**21258.**	**4098.4**
Stddev	12.0	4.5	13.	20.1
%RSD	.29041	.17011	.06116	.48956
#1	4108.0	2663.3	21248.	4112.6
#2	4124.9	2669.8	21267.	4084.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.978%	99.602%	100.31%	97.893%
Range				

Sample Name: MB 480-373991/1-A Acquired: 8/28/2017 20:59:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.03029**	**.00081**	**.01750**	**-.00003**
Stddev	.00064	.01340	.00189	.00038	.00002
%RSD	247.64	44.236	234.33	2.1456	45.787
#1	-.00072	.03977	-.00053	.01776	-.00005
#2	.00020	.02082	.00214	.01723	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.07377**	**-.00028**	**.0161**	**.00001**
Stddev	.00007	.00324	.00008	.0107	.00002
%RSD	50.360	4.3867	29.316	66.49	213.99
#1	-.00019	.07149	-.00022	.0085	.00003
#2	-.00009	.07606	-.00033	.0236	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00026**	**-.00144**	**.17315**	**.00033**
Stddev	.00043	.00021	.00022	.00623	.00039
%RSD	60.028	78.963	15.195	3.5974	117.75
#1	-.00101	.00041	-.00159	.16874	.00005
#2	-.00041	.00012	-.00129	.17755	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373991/1-A Acquired: 8/28/2017 20:59:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00308**	**.00147**	**-.00049**	**.13355**	**.00012**
Stddev	.00240	.00005	.00002	.01034	.00015
%RSD	78.059	3.3938	4.3065	7.7408	125.41
#1	-.00478	.00143	-.00048	.12624	.00023
#2	-.00138	.00151	-.00051	.14086	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00015**	**.00058**	**-.00020**	**.02000**
Stddev	.00066	.00092	.00002	.00005	.00339
%RSD	88.505	598.85	4.1538	24.401	16.938
#1	-.00122	.00081	.00060	-.00017	.02239
#2	-.00028	-.00050	.00056	-.00024	.01760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00044**	**.00018**	**-.00137**	**-.00001**
Stddev	.00020	.00007	.00001	.00022	.00004
%RSD	118.20	16.595	7.5316	15.699	411.82
#1	-.00031	.00049	.00019	-.00152	-.00004
#2	-.00003	.00039	.00017	-.00122	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373991/1-A Acquired: 8/28/2017 20:59:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00284
Stddev	.00017
%RSD	6.0500
#1	.00272
#2	.00297
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4177.5	2694.3	21641.	4206.1
Stddev	3.5	1.5	94.	11.5
%RSD	.08332	.05677	.43363	.27395
#1	4180.0	2695.4	21707.	4214.3
#2	4175.1	2693.2	21574.	4198.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.46%	100.64%	102.12%	100.47%
Range				

Sample Name: LCS 480-373991/2-A Acquired: 8/28/2017 21:03:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04777**	**10.008**	**.20131**	**.22218**	**.20511**
Stddev	.00070	.006	.00297	.00048	.00051
%RSD	1.4638	.06104	1.4761	.21678	.24829
#1	.04728	10.013	.19921	.22184	.20475
#2	.04826	10.004	.20341	.22252	.20547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20183**	**10.028**	**.20518**	**-.0004**	**.19105**
Stddev	.00051	.008	.00024	.0128	.00031
%RSD	.25023	.08035	.11740	2871.	.16026
#1	.20218	10.022	.20501	-.0095	.19083
#2	.20147	10.034	.20535	.0086	.19127
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20288**	**.20340**	**10.106**	**10.275**	**.20830**
Stddev	.00130	.00080	.004	.020	.00052
%RSD	.63947	.39151	.03541	.19309	.24744
#1	.20196	.20396	10.104	10.261	.20866
#2	.20380	.20283	10.109	10.289	.20793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373991/2-A Acquired: 8/28/2017 21:03:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.305**	**.20976**	**.20490**	**10.159**	**.19656**
Stddev	.075	.00155	.00058	.002	.00072
%RSD	.73093	.73880	.28157	.01608	.36716
#1	10.252	.20867	.20449	10.158	.19707
#2	10.358	.21086	.20531	10.160	.19605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20353**	**10.154**	**.20268**	**.20390**	**10.069**
Stddev	.00096	.032	.00165	.00111	.001
%RSD	.47147	.31639	.81484	.54612	.00571
#1	.20285	10.131	.20151	.20311	10.069
#2	.20421	10.177	.20385	.20469	10.070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18232**	**.20274**	**.19995**	**.20384**	**.20695**
Stddev	.00020	.00055	.00039	.00018	.00074
%RSD	.10812	.27159	.19529	.09062	.35944
#1	.18218	.20313	.19967	.20397	.20643
#2	.18246	.20235	.20022	.20370	.20748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373991/2-A Acquired: 8/28/2017 21:03:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20671
Stddev	.00239
%RSD	1.1563
#1	.20502
#2	.20840
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3918.7	2675.1	21154.	4204.7
Stddev	.8	1.8	172.	16.9
%RSD	.01988	.06893	.81323	.40266
#1	3918.2	2676.4	21276.	4192.7
#2	3919.3	2673.8	21032.	4216.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.175%	99.922%	99.825%	100.43%
Range				

Sample Name: 480-123214-C-1-D Acquired: 8/28/2017 21:06:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.13616**	**.00116**	**.22137**	**.07276**
Stddev	.00070	.00422	.00023	.00096	.00035
%RSD	637.53	3.0958	20.180	.43283	.48595
#1	.00038	.13914	.00132	.22069	.07251
#2	-.00060	.13318	.00099	.22204	.07301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**127.22**	**.00019**	**.0220**	**-.00038**
Stddev	.00007	.81	.00009	.0086	.00021
%RSD	35.811	.63960	46.592	39.04	55.843
#1	-.00025	126.64	.00013	.0159	-.00054
#2	-.00015	127.79	.00025	.0281	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00034**	**.00877**	**16.124**	**.00196**
Stddev	.00012	.00017	.00270	.083	.00152
%RSD	53.924	49.075	30.813	.51305	77.164
#1	.00014	-.00046	.00686	16.066	.00304
#2	.00031	-.00022	.01068	16.183	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-D Acquired: 8/28/2017 21:06:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.847**	**.00069**	**.00022**	**548.34**	**.00072**
Stddev	.330	.00001	.00018	3.33	.00004
%RSD	.57009	1.4453	83.055	.60734	6.2017
#1	57.614	.00068	.00035	545.98	.00076
#2	58.080	.00070	.00009	550.69	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	**53.182**	**-.00039**	**-.00059**	**3.6330**
Stddev	.00122	.075	.00114	.00212	.0290
%RSD	126.38	.14169	293.28	360.68	.79925
#1	-.00010	53.129	.00042	-.00209	3.6124
#2	-.00182	53.235	-.00119	.00091	3.6535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.70186**	**.00008**	**-.00173**	**-.00034**
Stddev	.00001	.00512	.00064	.00175	.00083
%RSD	4.4743	.72975	806.12	101.52	244.55
#1	-.00031	.69824	.00053	-.00049	.00025
#2	-.00033	.70549	-.00037	-.00296	-.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-D Acquired: 8/28/2017 21:06:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01900**
Stddev	.00001
%RSD	.05129
#1	.01899
#2	.01901
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3208.0**	**2424.7**	**18715.**	**4038.5**
Stddev	3.4	4.1	115.	24.1
%RSD	.10650	.16967	.61373	.59564
#1	3205.6	2421.7	18796.	4055.5
#2	3210.4	2427.6	18633.	4021.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.912%	90.567%	88.313%	96.461%
Range				

Sample Name: 480-123214-C-1-Dpds Acquired: 8/28/2017 21:10:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05211**	**9.8753**	**.21212**	**.41595**	**.26137**
Stddev	.00024	.0297	.00036	.00099	.00089
%RSD	.46982	.30119	.17172	.23699	.33923
#1	.05229	9.8963	.21187	.41665	.26200
#2	.05194	9.8543	.21238	.41525	.26075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20190**	**133.18**	**.21134**	**.0109**	**.20037**
Stddev	.00104	.46	.00031	.0072	.00005
%RSD	.51528	.34574	.14758	65.85	.02630
#1	.20263	133.50	.21156	.0058	.20033
#2	.20116	132.85	.21112	.0160	.20041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20223**	**.20272**	**9.8953**	**25.833**	**.20758**
Stddev	.00034	.00047	.0072	.020	.00041
%RSD	.16870	.23016	.07240	.07765	.19520
#1	.20199	.20305	9.9004	25.847	.20786
#2	.20247	.20239	9.8902	25.819	.20729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-Dpds Acquired: 8/28/2017 21:10:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.942**	**.20179**	**.19694**	**542.68**	**.20296**
Stddev	.324	.00034	.00001	.21	.00062
%RSD	.49075	.16899	.00636	.03803	.30450
#1	66.171	.20203	.19695	542.82	.20339
#2	65.713	.20155	.19694	542.53	.20252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20913**	**61.845**	**.21216**	**.21263**	**13.562**
Stddev	.00125	.020	.00129	.00184	.051
%RSD	.59908	.03271	.60940	.86694	.37325
#1	.20824	61.860	.21124	.21394	13.598
#2	.21001	61.831	.21307	.21133	13.527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21257**	**.87709**	**.20074**	**.19411**	**.20609**
Stddev	.00039	.00523	.00059	.00184	.00020
%RSD	.18539	.59636	.29423	.95038	.09554
#1	.21229	.88079	.20032	.19281	.20623
#2	.21285	.87339	.20116	.19542	.20595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-Dpds Acquired: 8/28/2017 21:10:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.22356**
Stddev	.00093
%RSD	.41628
#1	.22422
#2	.22290
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3186.3**	**2444.1**	**18970.**	**4031.0**
Stddev	.8	1.7	13.	4.9
%RSD	.02385	.06985	.06594	.12199
#1	3185.7	2442.9	18979.	4027.6
#2	3186.8	2445.3	18962.	4034.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.386%	91.294%	89.520%	96.283%
Range				

Sample Name: 480-123214-C-1-Dsd@5 Acquired: 8/28/2017 21:13:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.01482**	**-.00041**	**.04741**	**.01483**
Stddev	.00147	.01772	.00082	.00067	.00000
%RSD	264.12	119.57	198.97	1.4128	.00085
#1	-.00048	.02735	.00017	.04788	.01483
#2	.00160	.00229	-.00099	.04694	.01483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**25.112**	**-.00000**	**.0020**	**-.00009**
Stddev	.00000	.057	.00012	.0009	.00017
%RSD	2.7970	.22608	54447.	44.35	188.45
#1	-.00013	25.152	-.00008	.0014	.00003
#2	-.00012	25.072	.00008	.0027	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00001**	**-.00313**	**3.1752**	**-.00091**
Stddev	.00026	.00076	.00078	.0043	.00096
%RSD	79.989	5484.5	24.804	.13497	106.20
#1	-.00014	.00055	-.00258	3.1722	-.00023
#2	-.00050	-.00052	-.00368	3.1782	-.00159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-Dsd@5 Acquired: 8/28/2017 21:13:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.505**	**.00015**	**-.00008**	**108.42**	**.00015**
Stddev	.055	.00004	.00023	.72	.00008
%RSD	.47828	26.764	288.67	.66039	50.276
#1	11.544	.00018	-.00024	108.92	.00010
#2	11.466	.00012	.00008	107.91	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**9.9605**	**.00009**	**.00076**	**.70591**
Stddev	.00103	.0076	.00056	.00298	.00279
%RSD	811.85	.07656	603.93	389.43	.39481
#1	-.00060	9.9551	.00049	.00287	.70788
#2	.00086	9.9659	-.00030	-.00134	.70394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.13906**	**-.00023**	**-.00004**	**-.00006**
Stddev	.00002	.00003	.00016	.00150	.00044
%RSD	30.848	.02506	67.089	4110.4	776.78
#1	.00005	.13909	-.00034	.00102	-.00037
#2	.00007	.13904	-.00012	-.00110	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-Dsd@5 Acquired: 8/28/2017 21:13:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00402**
Stddev	.00025
%RSD	6.3237
#1	.00384
#2	.00420
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3658.2**	**2565.0**	**20084.**	**4066.0**
Stddev	.8	2.1	104.	13.1
%RSD	.02232	.08147	.51545	.32155
#1	3658.7	2566.5	20011.	4056.7
#2	3657.6	2563.6	20157.	4075.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.846%	95.810%	94.776%	97.117%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 21:17:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50532**	**23.864**	**.50210**	**.50952**	**.49142**
Stddev	.00186	.018	.00040	.00110	.00231
%RSD	.36789	.07469	.07931	.21611	.47070
#1	.50400	23.877	.50181	.51030	.48978
#2	.50663	23.852	.50238	.50874	.49305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49872**	**24.492**	**.49967**	**-.0112**	**.48965**
Stddev	.00022	.052	.00120	.0029	.00014
%RSD	.04325	.21117	.23937	26.01	.02921
#1	.49887	24.529	.50051	-.0091	.48975
#2	.49857	24.456	.49882	-.0132	.48954
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50645**	**.50326**	**23.666**	**25.493**	**.51135**
Stddev	.00096	.00070	.029	.069	.00023
%RSD	.18917	.13969	.12115	.27024	.04526
#1	.50577	.50276	23.686	25.444	.51119
#2	.50713	.50376	23.646	25.542	.51151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 21:17:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.798**	**.50760**	**.49924**	**25.314**	**.49745**
Stddev	.031	.00122	.00026	.060	.00002
%RSD	.12650	.24045	.05284	.23662	.00433
#1	24.775	.50674	.49942	25.356	.49743
#2	24.820	.50847	.49905	25.271	.49746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49299**	**25.369**	**.49946**	**.50414**	**23.807**
Stddev	.00189	.048	.00182	.00176	.018
%RSD	.38236	.18834	.36451	.34931	.07401
#1	.49166	25.403	.49817	.50289	23.819
#2	.49433	25.335	.50075	.50538	23.794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51067**	**.50005**	**.49648**	**.50084**	**.50118**
Stddev	.00092	.00073	.00021	.00295	.00158
%RSD	.18002	.14612	.04302	.58867	.31598
#1	.51002	.50057	.49633	.50293	.50006
#2	.51132	.49954	.49663	.49876	.50230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 21:17:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50129
Stddev	.00024
%RSD	.04852
#1	.50147
#2	.50112
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3712.7	2630.0	20655.	4122.0
Stddev	6.8	2.8	14.	2.2
%RSD	.18305	.10577	.06755	.05220
#1	3717.5	2632.0	20665.	4120.5
#2	3707.9	2628.1	20645.	4123.5

Sample Name: CCB-4204839 Acquired: 8/28/2017 21:20:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00759**	**.00031**	**.00374**	**-.00012**
Stddev	.00079	.00687	.00180	.00079	.00002
%RSD	450.33	90.514	578.78	21.214	17.754
#1	-.00074	-.01244	.00159	.00430	-.00011
#2	.00038	-.00273	-.00096	.00318	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00112**	**-.00032**	**.0010**	**.00000**
Stddev	.00005	.00359	.00000	.0208	.00007
%RSD	42.627	320.95	.00935	2134.	3286.3
#1	-.00016	.00142	-.00032	.0157	.00005
#2	-.00009	-.00365	-.00032	-.0137	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00009**	**-.00690**	**.08101**	**-.00101**
Stddev	.00012	.00124	.00125	.06725	.00029
%RSD	60.299	1354.1	18.092	83.014	29.144
#1	-.00011	.00078	-.00602	.03346	-.00080
#2	-.00028	-.00097	-.00778	.12856	-.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 21:20:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00854**	**-.00011**	**-.00034**	**.07490**	**.00025**
Stddev	.00140	.00001	.00007	.00977	.00001
%RSD	16.343	4.6220	21.652	13.047	5.8039
#1	-.00952	-.00012	-.00029	.06799	.00026
#2	-.00755	-.00011	-.00040	.08181	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.00391**	**.00016**	**.00319**	**-.00504**
Stddev	.00083	.00177	.00015	.00141	.01358
%RSD	189.56	45.345	95.215	44.372	269.44
#1	.00015	-.00266	.00005	.00418	.00456
#2	-.00102	-.00517	.00027	.00219	-.01465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00001**	**.00042**	**-.00087**	**-.00014**
Stddev	.00005	.00000	.00007	.00022	.00043
%RSD	12.260	48.424	17.169	25.262	300.35
#1	-.00036	-.00001	.00047	-.00102	.00016
#2	-.00043	-.00001	.00037	-.00071	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 21:20:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00062**
Stddev	.00041
%RSD	65.113
#1	.00034
#2	.00091
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4153.8**	**2690.8**	**21441.**	**4131.2**
Stddev	3.9	2.5	23.	8.5
%RSD	.09461	.09297	.10954	.20504
#1	4151.0	2692.6	21424.	4137.2
#2	4156.6	2689.0	21457.	4125.2

Sample Name: CCVL-4195955 Acquired: 8/28/2017 21:24:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00582**	**.20176**	**.01455**	**.02334**	**.00200**
Stddev	.00063	.00742	.00036	.00039	.00001
%RSD	10.749	3.6762	2.4746	1.6570	.69444
#1	.00626	.19651	.01430	.02361	.00199
#2	.00538	.20700	.01481	.02306	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49539**	**.00187**	**.0040**	**.00380**
Stddev	.00007	.00539	.00012	.0023	.00017
%RSD	3.5292	1.0877	6.3297	56.54	4.4713
#1	.00198	.49920	.00179	.0056	.00392
#2	.00188	.49158	.00196	.0024	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00444**	**.01077**	**.04066**	**.58991**	**.02978**
Stddev	.00063	.00145	.00029	.01412	.00181
%RSD	14.174	13.486	.70786	2.3939	6.0733
#1	.00489	.00975	.04045	.59989	.03106
#2	.00400	.01180	.04086	.57992	.02850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 21:24:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19892**	**.00293**	**.00970**	**1.0877**	**.00953**
Stddev	.00076	.00006	.00027	.0003	.00016
%RSD	.38286	2.1968	2.7666	.03120	1.7243
#1	.19946	.00288	.00989	1.0875	.00965
#2	.19838	.00297	.00951	1.0880	.00942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00971**	**.19655**	**.02187**	**.02767**	**.49447**
Stddev	.00174	.00343	.00125	.00141	.00347
%RSD	17.919	1.7432	5.6954	5.0980	.70234
#1	.01094	.19898	.02099	.02667	.49693
#2	.00848	.19413	.02275	.02867	.49202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00914**	**.00500**	**.00495**	**.01848**	**.00502**
Stddev	.00031	.00005	.00025	.00063	.00014
%RSD	3.3626	1.0627	5.0017	3.4288	2.7386
#1	.00892	.00504	.00478	.01803	.00512
#2	.00936	.00496	.00513	.01893	.00493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 21:24:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01132
Stddev	.00049
%RSD	4.2953
#1	.01166
#2	.01098
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4101.4	2672.4	21260.	4079.4
Stddev	4.9	3.5	15.	19.1
%RSD	.12068	.12980	.07201	.46793
#1	4104.9	2674.9	21270.	4092.9
#2	4097.9	2670.0	21249.	4065.9

Sample Name: 480-123214-C-1-E MS Acquired: 8/28/2017 21:28:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04987**	**10.130**	**.21530**	**.41950**	**.26694**
Stddev	.00031	.029	.00036	.00198	.00114
%RSD	.62023	.28358	.16639	.47274	.42753
#1	.05008	10.150	.21504	.42090	.26775
#2	.04965	10.109	.21555	.41810	.26614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20412**	**139.59**	**.21267**	**.0026**	**.20257**
Stddev	.00083	.42	.00006	.0022	.00036
%RSD	.40632	.30058	.02997	83.95	.17697
#1	.20470	139.88	.21262	.0011	.20232
#2	.20353	139.29	.21271	.0042	.20282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20149**	**.20583**	**9.9236**	**26.299**	**.21095**
Stddev	.00005	.00076	.0016	.013	.00131
%RSD	.02513	.36843	.01594	.04835	.62106
#1	.20145	.20636	9.9225	26.308	.21187
#2	.20152	.20529	9.9247	26.290	.21002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-E MS Acquired: 8/28/2017 21:28:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.010**	**.20517**	**.20400**	**559.52**	**.20747**
Stddev	.264	.00028	.00047	1.44	.00021
%RSD	.38796	.13642	.23085	.25715	.09932
#1	68.196	.20537	.20367	558.50	.20762
#2	67.823	.20498	.20434	560.54	.20732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21221**	**63.905**	**.20864**	**.21222**	**13.873**
Stddev	.00026	.134	.00059	.00058	.038
%RSD	.12128	.20951	.28082	.27288	.27408
#1	.21239	63.999	.20906	.21181	13.899
#2	.21202	63.810	.20823	.21263	13.846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19686**	**.91567**	**.20181**	**.19446**	**.20937**
Stddev	.00007	.00572	.00140	.00045	.00058
%RSD	.03657	.62518	.69331	.23285	.27728
#1	.19681	.91972	.20280	.19478	.20978
#2	.19691	.91163	.20082	.19414	.20896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-E MS Acquired: 8/28/2017 21:28:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21090**
Stddev	.00116
%RSD	.54913
#1	.21172
#2	.21008
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3177.1**	**2440.4**	**18957.**	**4038.6**
Stddev	2.9	.5	30.	2.2
%RSD	.09063	.02219	.15823	.05550
#1	3179.1	2440.1	18936.	4040.2
#2	3175.1	2440.8	18978.	4037.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.162%	91.156%	89.457%	96.463%
Range				

Sample Name: 480-123214-C-1-F MSD Acquired: 8/28/2017 21:31:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04946**	**10.031**	**.21599**	**.42895**	**.27275**
Stddev	.00055	.064	.00126	.00131	.00026
%RSD	1.1126	.63533	.58244	.30603	.09709
#1	.04985	9.9864	.21688	.42802	.27293
#2	.04907	10.077	.21510	.42988	.27256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20303**	**148.17**	**.21247**	**-.0125**	**.20156**
Stddev	.00047	.03	.00020	.0314	.00048
%RSD	.23301	.01984	.09559	251.1	.23851
#1	.20270	148.15	.21262	.0097	.20122
#2	.20337	148.19	.21233	-.0347	.20190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20239**	**.20665**	**9.8906**	**27.065**	**.21151**
Stddev	.00112	.00027	.0006	.049	.00135
%RSD	.55477	.13179	.00555	.18001	.63855
#1	.20319	.20684	9.8902	27.031	.21056
#2	.20160	.20646	9.8910	27.100	.21247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-F MSD Acquired: 8/28/2017 21:31:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**71.495**	**.20516**	**.20325**	**587.21**	**.20623**
Stddev	.342	.00094	.00093	.86	.00046
%RSD	.47830	.45846	.45930	.14597	.22529
#1	71.737	.20582	.20391	586.60	.20656
#2	71.253	.20449	.20259	587.81	.20591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21200**	**67.037**	**.20713**	**.21251**	**14.001**
Stddev	.00060	.114	.00443	.00210	.022
%RSD	.28264	.17020	2.1380	.98867	.15412
#1	.21158	66.957	.21026	.21102	13.986
#2	.21242	67.118	.20400	.21399	14.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19715**	**.96069**	**.20195**	**.19575**	**.20958**
Stddev	.00018	.00257	.00161	.00139	.00053
%RSD	.09216	.26742	.79808	.70933	.25092
#1	.19728	.95887	.20309	.19673	.20995
#2	.19702	.96251	.20081	.19477	.20920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-F MSD Acquired: 8/28/2017 21:31:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20842**
Stddev	.00093
%RSD	.44561
#1	.20908
#2	.20777
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3153.0**	**2423.1**	**18760.**	**4032.7**
Stddev	1.1	1.4	86.	17.9
%RSD	.03422	.05590	.45778	.44275
#1	3152.2	2424.1	18700.	4045.3
#2	3153.8	2422.2	18821.	4020.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.577%	90.510%	88.529%	96.322%
Range				

Sample Name: 480-123214-C-2-B Acquired: 8/28/2017 21:35:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.04124**	**.00216**	**.15393**	**.04158**
Stddev	.00076	.01747	.00191	.00033	.00004
%RSD	246.79	42.376	88.325	.21685	.10683
#1	.00023	.02888	.00081	.15416	.04161
#2	-.00084	.05359	.00352	.15369	.04155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**75.942**	**.00025**	**-.0167**	**.00064**
Stddev	.00009	.063	.00006	.0079	.00014
%RSD	61.076	.08299	25.872	47.12	22.091
#1	-.00008	75.986	.00029	-.0112	.00074
#2	-.00021	75.897	.00020	-.0223	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00049**	**.27419**	**11.110**	**-.00255**
Stddev	.00008	.00058	.00390	.024	.00013
%RSD	15.849	119.94	1.4213	.21840	4.9409
#1	-.00042	-.00007	.27694	11.127	-.00246
#2	-.00053	-.00090	.27143	11.093	-.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-2-B Acquired: 8/28/2017 21:35:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.260**	**1.1217**	**.00027**	**224.99**	**.00141**
Stddev	.046	.0029	.00007	.04	.00009
%RSD	.13166	.26220	24.841	.01759	6.0565
#1	35.292	1.1237	.00023	224.96	.00135
#2	35.227	1.1196	.00032	225.02	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**21.318**	**-.00053**	**.00321**	**4.7411**
Stddev	.00137	.081	.00112	.00294	.0005
%RSD	648.82	.37869	212.14	91.617	.01013
#1	.00118	21.375	-.00132	.00113	4.7407
#2	-.00076	21.261	.00026	.00529	4.7414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.33661**	**.00076**	**-.00083**	**.00009**
Stddev	.00014	.00024	.00007	.00075	.00024
%RSD	24.067	.07211	9.3524	90.442	278.68
#1	.00070	.33678	.00071	-.00136	.00026
#2	.00049	.33644	.00081	-.00030	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-2-B Acquired: 8/28/2017 21:35:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02086
Stddev	.00025
%RSD	1.1818
#1	.02068
#2	.02103
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3444.2	2506.1	19664.	4094.5
Stddev	.3	2.3	60.	3.8
%RSD	.00778	.09136	.30557	.09303
#1	3444.4	2504.5	19622.	4097.2
#2	3444.0	2507.7	19707.	4091.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.650%	93.608%	92.794%	97.798%
Range				

Sample Name: 480-123214-C-3-B Acquired: 8/28/2017 21:38:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.15369**	**.00144**	**.26910**	**.08532**
Stddev	.00023	.00465	.00099	.00013	.00021
%RSD	4470.0	3.0257	68.444	.04792	.24951
#1	.00016	.15698	.00214	.26919	.08517
#2	-.00017	.15040	.00074	.26901	.08547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**107.22**	**-.00004**	**-.0055**	**-.00014**
Stddev	.00004	.10	.00007	.0429	.00008
%RSD	51.524	.09203	167.98	782.5	54.725
#1	-.00005	107.15	-.00009	-.0358	-.00009
#2	-.00011	107.29	.00001	.0248	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00001**	**2.3920**	**13.217**	**-.00267**
Stddev	.00015	.00025	.0004	.028	.00191
%RSD	1189.1	1936.2	.01562	.21290	71.485
#1	-.00009	-.00019	2.3922	13.198	-.00132
#2	.00012	.00016	2.3917	13.237	-.00402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-3-B Acquired: 8/28/2017 21:38:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.299**	**.92230**	**-.00003**	**287.29**	**.00064**
Stddev	.027	.00079	.00005	.15	.00047
%RSD	.09109	.08612	144.12	.05279	73.069
#1	29.281	.92174	.00000	287.18	.00031
#2	29.318	.92286	-.00006	287.40	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**28.345**	**.00032**	**.00067**	**6.4973**
Stddev	.00259	.040	.00103	.00163	.0020
%RSD	187.01	.14186	321.68	244.80	.03035
#1	.00322	28.373	.00105	-.00049	6.4959
#2	-.00045	28.317	-.00041	.00182	6.4987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.61796**	**.00963**	**-.00179**	**.00031**
Stddev	.00073	.00015	.00046	.00081	.00052
%RSD	1584.4	.02376	4.7511	45.076	169.15
#1	-.00056	.61807	.00931	-.00122	.00068
#2	.00047	.61786	.00995	-.00236	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-3-B Acquired: 8/28/2017 21:38:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02834**
Stddev	.00010
%RSD	.36959
#1	.02826
#2	.02841
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3374.4**	**2488.8**	**19445.**	**4074.6**
Stddev	2.1	1.6	12.	18.8
%RSD	.06364	.06522	.05926	.46183
#1	3372.9	2487.7	19453.	4087.9
#2	3375.9	2490.0	19437.	4061.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.954%	92.964%	91.762%	97.323%
Range				

Sample Name: 480-123214-C-4-B Acquired: 8/28/2017 21:42:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.16420**	**.00235**	**.28688**	**.15901**
Stddev	.00018	.02622	.00307	.00103	.00026
%RSD	126.34	15.969	131.01	.35794	.16113
#1	-.00001	.18274	.00017	.28616	.15919
#2	-.00026	.14566	.00452	.28761	.15883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**100.58**	**.00058**	**.0048**	**-.00031**
Stddev	.00005	.28	.00021	.0120	.00013
%RSD	32.331	.28330	37.072	251.6	43.175
#1	-.00011	100.78	.00073	-.0037	-.00040
#2	-.00017	100.38	.00043	.0133	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00206**	**.36498**	**40.417**	**-.00206**
Stddev	.00060	.00019	.00512	.177	.00195
%RSD	524.06	9.0565	1.4041	.43777	95.045
#1	.00053	.00219	.36860	40.543	-.00067
#2	-.00031	.00193	.36136	40.292	-.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-4-B Acquired: 8/28/2017 21:42:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**127.76**	**.07123**	**-.00008**	**809.84**	**.00088**
Stddev	.16	.00026	.00004	2.26	.00072
%RSD	.12324	.36215	50.580	.27925	81.608
#1	127.87	.07141	-.00005	811.44	.00138
#2	127.65	.07104	-.00011	808.24	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**81.214**	**.00042**	**.00068**	**3.0695**
Stddev	.00018	.230	.00241	.00012	.0060
%RSD	64.553	.28349	578.51	17.303	.19551
#1	.00016	81.052	-.00129	.00076	3.0738
#2	.00042	81.377	.00212	.00060	3.0653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.92504**	**.00633**	**-.00189**	**-.00072**
Stddev	.00063	.00564	.00022	.00043	.00027
%RSD	631.59	.60916	3.4002	22.792	38.071
#1	.00054	.92903	.00618	-.00219	-.00091
#2	-.00034	.92106	.00648	-.00158	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-4-B Acquired: 8/28/2017 21:42:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01673
Stddev	.00032
%RSD	1.9036
#1	.01651
#2	.01696
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3089.6	2367.7	18275.	3976.8
Stddev	3.1	4.3	5.	20.2
%RSD	.10047	.18068	.02916	.50683
#1	3087.4	2370.8	18279.	3962.5
#2	3091.8	2364.7	18271.	3991.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.038%	88.441%	86.238%	94.987%
Range				

Sample Name: 480-123214-C-5-B Acquired: 8/28/2017 21:46:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.22858**	**.00240**	**.09009**	**.10528**
Stddev	.00116	.00538	.00150	.00017	.00049
%RSD	241.43	2.3524	62.304	.19126	.46204
#1	-.00034	.22478	.00134	.09021	.10562
#2	.00130	.23238	.00346	.08996	.10493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**198.39**	**.00021**	**-.0088**	**.00020**
Stddev	.00005	.55	.00015	.0183	.00014
%RSD	31.577	.27710	73.867	207.0	68.920
#1	-.00021	198.78	.00032	-.0217	.00010
#2	-.00013	198.00	.00010	.0041	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00029**	**1.7234**	**4.6344**	**-.00496**
Stddev	.00072	.00072	.0022	.0368	.00027
%RSD	529.29	248.31	.12619	.79449	5.5333
#1	.00037	.00022	1.7219	4.6084	-.00515
#2	-.00065	-.00080	1.7250	4.6605	-.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-5-B Acquired: 8/28/2017 21:46:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.964**	**2.2937**	**.00057**	**58.574**	**.00170**
Stddev	.136	.0122	.00006	.237	.00041
%RSD	.61779	.53368	10.688	.40413	23.960
#1	22.060	2.3024	.00061	58.741	.00141
#2	21.868	2.2850	.00053	58.406	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**59.634**	**-.00002**	**-.00121**	**4.6598**
Stddev	.00136	.095	.00026	.00140	.0292
%RSD	107.90	.15953	1054.4	115.87	.62568
#1	.00222	59.701	-.00021	-.00219	4.6392
#2	.00030	59.567	.00016	-.00022	4.6805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.72815**	**.01121**	**-.00107**	**.00140**
Stddev	.00006	.00409	.00030	.00087	.00061
%RSD	11.456	.56145	2.7036	81.032	43.335
#1	-.00055	.73104	.01143	-.00046	.00183
#2	-.00047	.72526	.01100	-.00169	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-5-B Acquired: 8/28/2017 21:46:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01822**
Stddev	.00022
%RSD	1.2101
#1	.01838
#2	.01807
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3519.5**	**2488.2**	**19760.**	**4101.9**
Stddev	1.6	.0	121.	15.8
%RSD	.04529	.00082	.61360	.38557
#1	3518.4	2488.2	19674.	4090.7
#2	3520.6	2488.2	19846.	4113.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.479%	92.940%	93.247%	97.975%
Range				

Sample Name: 480-123214-C-6-B Acquired: 8/28/2017 21:49:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00104**	**.12120**	**.00250**	**.25651**	**.07583**
Stddev	.00129	.03069	.00138	.00024	.00016
%RSD	124.13	25.326	54.996	.09261	.21585
#1	-.00195	.09949	.00348	.25634	.07595
#2	-.00013	.14290	.00153	.25668	.07572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**99.945**	**-.00006**	**-.0049**	**-.00012**
Stddev	.00005	.118	.00010	.0178	.00012
%RSD	30.405	.11796	162.96	362.9	105.81
#1	-.00020	99.862	-.00013	.0077	-.00021
#2	-.00013	100.03	.00001	-.0175	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00064**	**2.0070**	**12.293**	**-.00306**
Stddev	.00028	.00020	.0021	.005	.00150
%RSD	132.18	31.352	.10387	.04027	49.212
#1	-.00001	.00050	2.0084	12.289	-.00199
#2	-.00041	.00078	2.0055	12.296	-.00412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-6-B Acquired: 8/28/2017 21:49:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.289**	**.84360**	**-.00008**	**281.56**	**.00064**
Stddev	.070	.00089	.00005	.26	.00019
%RSD	.24711	.10597	63.749	.09228	29.665
#1	28.339	.84423	-.00004	281.75	.00077
#2	28.240	.84296	-.00011	281.38	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**28.495**	**.00010**	**.00208**	**6.0171**
Stddev	.00038	.018	.00011	.00278	.0184
%RSD	59.540	.06447	106.47	133.71	.30633
#1	.00037	28.508	.00003	.00011	6.0040
#2	.00092	28.482	.00018	.00404	6.0301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.56825**	**.00870**	**-.00015**	**.00041**
Stddev	.00020	.00143	.00516	.00088	.00015
%RSD	209.89	.25096	59.271	582.65	36.884
#1	-.00005	.56724	.01235	.00047	.00030
#2	.00023	.56926	.00506	-.00077	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-6-B Acquired: 8/28/2017 21:49:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01690**
Stddev	.00003
%RSD	.18603
#1	.01692
#2	.01688
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3384.0**	**2488.0**	**19447.**	**4076.1**
Stddev	8.2	4.9	48.	5.9
%RSD	.24137	.19775	.24642	.14463
#1	3389.8	2491.5	19413.	4080.3
#2	3378.3	2484.6	19481.	4071.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.188%	92.934%	91.770%	97.359%
Range				

Sample Name: 480-123173-B-13-A Acquired: 8/28/2017 21:53:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.06278**	**.01100**	**.06567**	**.06832**
Stddev	.00022	.01260	.00056	.00020	.00033
%RSD	46.758	20.063	5.1317	.30057	.48474
#1	.00064	.07169	.01140	.06553	.06855
#2	.00032	.05387	.01060	.06581	.06808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**87.748**	**.00014**	**.0086**	**-.00019**
Stddev	.00010	.176	.00024	.0148	.00003
%RSD	61.516	.20106	166.82	172.9	13.322
#1	-.00009	87.872	-.00003	.0191	-.00021
#2	-.00023	87.623	.00031	-.0019	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00026**	**1.5862**	**1.2963**	**.00284**
Stddev	.00057	.00073	.0018	.0218	.00026
%RSD	111.11	278.30	.11358	1.6788	9.2926
#1	-.00011	.00025	1.5874	1.3117	.00265
#2	-.00092	-.00078	1.5849	1.2809	.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-13-A Acquired: 8/28/2017 21:53:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.426**	**.03511**	**.00228**	**14.385**	**.00032**
Stddev	.174	.00013	.00025	.084	.00030
%RSD	.57274	.37221	10.891	.58493	93.933
#1	30.550	.03520	.00211	14.444	.00054
#2	30.303	.03502	.00246	14.325	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**22.331**	**-.00068**	**.00195**	**7.6082**
Stddev	.00027	.120	.00021	.00227	.0298
%RSD	20.625	.53783	30.850	116.30	.39212
#1	.00149	22.416	-.00053	.00355	7.6293
#2	.00111	22.246	-.00083	.00035	7.5871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.33361**	**.00021**	**.00058**	**-.00043**
Stddev	.00000	.00189	.00013	.00099	.00016
%RSD	1.0984	.56623	62.501	169.75	38.104
#1	-.00012	.33495	.00012	.00128	-.00032
#2	-.00012	.33228	.00030	-.00012	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-13-A Acquired: 8/28/2017 21:53:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00368
Stddev	.00022
%RSD	5.9593
#1	.00353
#2	.00384
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3709.5	2573.0	20396.	4123.4
Stddev	14.1	15.4	68.	22.1
%RSD	.37896	.59666	.33232	.53507
#1	3699.5	2562.2	20348.	4107.8
#2	3719.4	2583.9	20444.	4139.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.092%	96.109%	96.249%	98.490%
Range				

Sample Name: 480-123173-B-14-A Acquired: 8/28/2017 21:56:52 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.02505**	**.01427**	**.24667**	**.14804**
Stddev	.00014	.00630	.00067	.00009	.00013
%RSD	14.942	25.143	4.6635	.03608	.08476
#1	.00104	.02060	.01380	.24674	.14813
#2	.00084	.02950	.01474	.24661	.14795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**31.002**	**.00003**	**.0198**	**-.00021**
Stddev	.00004	.031	.00006	.0035	.00003
%RSD	21.315	.10098	193.60	17.50	15.675
#1	-.00014	30.980	.00008	.0173	-.00019
#2	-.00019	31.024	-.00001	.0222	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00014**	**.28555**	**1.8764**	**.00484**
Stddev	.00117	.00082	.00380	.0566	.00026
%RSD	209.51	595.44	1.3302	3.0157	5.3487
#1	-.00138	.00072	.28287	1.9164	.00502
#2	.00027	-.00044	.28824	1.8364	.00465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-14-A Acquired: 8/28/2017 21:56:52 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.758**	**.01701**	**.01201**	**49.419**	**.00023**
Stddev	.004	.00011	.00002	.073	.00003
%RSD	.03008	.63729	.15389	.14722	12.942
#1	13.755	.01708	.01200	49.471	.00021
#2	13.761	.01693	.01202	49.368	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.15617**	**-.00069**	**.00273**	**5.9052**
Stddev	.00068	.00207	.00001	.00042	.0006
%RSD	174.44	1.3251	1.9053	15.260	.01000
#1	-.00009	.15470	-.00068	.00244	5.9056
#2	.00087	.15763	-.00070	.00303	5.9048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**1.2896**	**.00022**	**-.00136**	**.00030**
Stddev	.00068	.0028	.00020	.00098	.00013
%RSD	136.97	.21924	90.474	72.128	41.709
#1	-.00002	1.2916	.00036	-.00067	.00021
#2	-.00097	1.2876	.00008	-.00205	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-14-A Acquired: 8/28/2017 21:56:52 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00329**
Stddev	.00028
%RSD	8.6055
#1	.00309
#2	.00349
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3779.0**	**2613.1**	**20695.**	**4139.2**
Stddev	3.0	2.9	3.	16.7
%RSD	.07808	.10953	.01322	.40409
#1	3781.1	2615.1	20697.	4151.0
#2	3776.9	2611.1	20693.	4127.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.781%	97.605%	97.657%	98.865%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:00:28 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50683**	**23.941**	**.50109**	**.51019**	**.49594**
Stddev	.00164	.075	.00026	.00041	.00162
%RSD	.32410	.31416	.05222	.08019	.32643
#1	.50567	23.888	.50127	.51048	.49480
#2	.50799	23.995	.50090	.50990	.49709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50185**	**24.559**	**.50340**	**-.0180**	**.49244**
Stddev	.00081	.052	.00063	.0055	.00018
%RSD	.16203	.21047	.12478	30.74	.03648
#1	.50242	24.595	.50296	-.0219	.49256
#2	.50127	24.522	.50385	-.0141	.49231
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50758**	**.50599**	**23.765**	**25.676**	**.51763**
Stddev	.00112	.00110	.031	.110	.00086
%RSD	.22098	.21706	.12980	.42884	.16621
#1	.50679	.50676	23.787	25.599	.51702
#2	.50837	.50521	23.744	25.754	.51824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:00:28 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.041**	**.51081**	**.50018**	**25.473**	**.50070**
Stddev	.050	.00123	.00003	.101	.00051
%RSD	.19902	.24024	.00550	.39708	.10254
#1	25.005	.50994	.50020	25.402	.50034
#2	25.076	.51168	.50016	25.545	.50107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49872**	**25.448**	**.50247**	**.50286**	**23.834**
Stddev	.00114	.024	.00076	.00363	.017
%RSD	.22955	.09437	.15067	.72238	.07229
#1	.49791	25.465	.50193	.50543	23.822
#2	.49953	25.431	.50300	.50030	23.846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51432**	**.50060**	**.50028**	**.50441**	**.50502**
Stddev	.00068	.00063	.00178	.00259	.00111
%RSD	.13190	.12683	.35577	.51396	.21952
#1	.51480	.50015	.49902	.50624	.50424
#2	.51384	.50105	.50153	.50258	.50581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:00:28 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50639
Stddev	.00177
%RSD	.34861
#1	.50514
#2	.50764
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3699.5	2624.4	20550.	4104.5
Stddev	7.9	3.3	113.	3.9
%RSD	.21223	.12396	.54967	.09543
#1	3705.0	2626.7	20630.	4107.3
#2	3693.9	2622.1	20470.	4101.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:03:56 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.01755**	**-.00032**	**.00156**	**-.00014**
Stddev	.00004	.01331	.00131	.00002	.00001
%RSD	69.375	75.863	408.97	1.5244	7.5411
#1	-.00008	-.02697	.00061	.00154	-.00013
#2	-.00003	-.00814	-.00125	.00158	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00175**	**-.00006**	**.0181**	**-.00011**
Stddev	.00001	.00244	.00007	.0165	.00002
%RSD	4.6061	138.86	116.27	91.10	22.291
#1	-.00024	-.00003	-.00010	.0298	-.00009
#2	-.00022	-.00348	-.00001	.0064	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00015**	**-.00785**	**.08030**	**-.00009**
Stddev	.00030	.00008	.00082	.02409	.00015
%RSD	452.36	52.160	10.383	30.005	164.10
#1	.00015	-.00020	-.00843	.09733	.00001
#2	-.00028	-.00009	-.00728	.06326	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:03:56 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00007**	**-.00035**	**.05757**	**.00017**
Stddev	.00161	.00007	.00007	.00554	.00017
%RSD	344.47	91.209	18.575	9.6202	95.979
#1	.00067	-.00003	-.00031	.05366	.00006
#2	-.00160	-.00012	-.00040	.06149	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00313**	**.00084**	**.00339**	**.00664**
Stddev	.00006	.00039	.00140	.00063	.01400
%RSD	50.253	12.367	166.29	18.675	210.67
#1	-.00007	-.00286	-.00015	.00294	.01654
#2	-.00015	-.00341	.00183	.00384	-.00325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00005**	**.00028**	**-.00069**	**-.00006**
Stddev	.00037	.00003	.00021	.00030	.00013
%RSD	1028.5	52.083	75.587	42.912	220.29
#1	.00030	.00007	.00013	-.00090	.00003
#2	-.00023	.00003	.00043	-.00048	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:03:56 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00012
Stddev	.00054
%RSD	440.12
#1	-.00026
#2	.00050
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4141.1	2682.8	21403.	4122.4
Stddev	6.4	2.9	67.	45.6
%RSD	.15358	.10776	.31100	1.1069
#1	4136.6	2680.8	21356.	4090.2
#2	4145.6	2684.9	21451.	4154.7

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:07:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.19383**	**.01631**	**.02146**	**.00200**
Stddev	.00004	.01951	.00055	.00023	.00002
%RSD	.60926	10.064	3.3562	1.0840	.84671
#1	.00717	.20763	.01670	.02130	.00199
#2	.00723	.18004	.01592	.02163	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.49468**	**.00189**	**.0031**	**.00392**
Stddev	.00004	.00157	.00018	.0194	.00000
%RSD	2.1392	.31831	9.5489	632.9	.11799
#1	.00185	.49580	.00201	.0168	.00392
#2	.00190	.49357	.00176	-.0107	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.01022**	**.04113**	**.53882**	**.03021**
Stddev	.00022	.00039	.00223	.08168	.00048
%RSD	5.3585	3.8273	5.4149	15.159	1.5912
#1	.00428	.01049	.04270	.59658	.03055
#2	.00396	.00994	.03955	.48106	.02987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:07:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20305**	**.00294**	**.00988**	**1.0894**	**.00945**
Stddev	.00040	.00001	.00013	.0152	.00020
%RSD	.19771	.36078	1.2984	1.3932	2.1056
#1	.20277	.00295	.00997	1.1002	.00931
#2	.20334	.00293	.00979	1.0787	.00959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00981**	**.19529**	**.01990**	**.02707**	**.48556**
Stddev	.00032	.00235	.00204	.00395	.00635
%RSD	3.2680	1.2032	10.252	14.597	1.3083
#1	.01004	.19363	.01846	.02428	.49005
#2	.00958	.19695	.02134	.02986	.48106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00915**	**.00499**	**.00478**	**.02018**	**.00509**
Stddev	.00015	.00010	.00041	.00071	.00024
%RSD	1.6307	1.9987	8.5675	3.4961	4.6640
#1	.00926	.00506	.00507	.02068	.00493
#2	.00905	.00492	.00449	.01968	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:07:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01241
Stddev	.00013
%RSD	1.0473
#1	.01232
#2	.01250
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4125.2	2688.1	21373.	4104.5
Stddev	11.8	9.9	87.	42.7
%RSD	.28702	.36743	.40594	1.0392
#1	4116.8	2681.1	21312.	4074.3
#2	4133.6	2695.1	21434.	4134.6

Sample Name: 480-123209-A-5-A Acquired: 8/28/2017 22:11:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.04006**	**.00359**	**.01126**	**.01649**
Stddev	.00026	.00827	.00160	.00011	.00008
%RSD	81.624	20.647	44.644	.96663	.46575
#1	.00014	.04591	.00246	.01133	.01643
#2	.00051	.03421	.00472	.01118	.01654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**33.142**	**.00003**	**-.0267**	**-.00017**
Stddev	.00001	.067	.00004	.0050	.00013
%RSD	4.5399	.20356	116.16	18.57	75.959
#1	-.00013	33.190	.00006	-.0232	-.00026
#2	-.00012	33.095	.00001	-.0302	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00024**	**1.8393**	**4.4401**	**.00222**
Stddev	.00028	.00025	.0016	.0357	.00031
%RSD	230.25	106.69	.08748	.80450	14.053
#1	-.00032	-.00006	1.8381	4.4148	.00244
#2	.00008	-.00042	1.8404	4.4653	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123209-A-5-A Acquired: 8/28/2017 22:11:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8247**	**.32596**	**.00153**	**23.398**	**.00524**
Stddev	.0163	.00020	.00021	.017	.00003
%RSD	.18483	.06277	14.025	.07250	.49572
#1	8.8362	.32582	.00168	23.410	.00522
#2	8.8131	.32610	.00138	23.386	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**11.173**	**-.00087**	**.00119**	**7.4534**
Stddev	.00040	.005	.00014	.00218	.0229
%RSD	36.438	.04131	15.536	182.98	.30686
#1	.00081	11.170	-.00077	-.00035	7.4696
#2	.00137	11.176	-.00097	.00273	7.4372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.13996**	**.00015**	**-.00152**	**.00067**
Stddev	.00034	.00035	.00002	.00027	.00063
%RSD	77.567	.24923	10.633	17.511	93.576
#1	-.00067	.14021	.00014	-.00170	.00023
#2	-.00020	.13971	.00016	-.00133	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123209-A-5-A Acquired: 8/28/2017 22:11:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00806
Stddev	.00032
%RSD	3.9084
#1	.00784
#2	.00829
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3881.0	2635.9	20991.	4169.6
Stddev	2.6	.4	37.	4.2
%RSD	.06653	.01687	.17629	.10037
#1	3879.2	2635.5	21017.	4172.6
#2	3882.8	2636.2	20965.	4166.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.258%	98.456%	99.055%	99.593%
Range				

Sample Name: 480-123158-D-1-A Acquired: 8/28/2017 22:14:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.02046**	**-.00076**	**.00889**	**.00811**
Stddev	.00013	.00166	.00038	.00023	.00003
%RSD	49.457	8.1219	49.723	2.5925	.34219
#1	.00017	.01928	-.00049	.00905	.00809
#2	.00035	.02163	-.00103	.00872	.00813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**20.243**	**.00007**	**-.0058**	**.00061**
Stddev	.00002	.020	.00006	.0102	.00005
%RSD	15.730	.09757	84.569	176.2	7.8227
#1	-.00013	20.229	.00011	.0014	.00064
#2	-.00011	20.257	.00003	-.0130	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00258**	**.00033**	**2.6125**	**.00556**
Stddev	.00082	.00089	.00083	.0391	.00063
%RSD	355.42	34.543	252.04	1.4978	11.272
#1	-.00081	.00195	-.00026	2.5848	.00600
#2	.00035	.00322	.00091	2.6402	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-1-A Acquired: 8/28/2017 22:14:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.5669**	**.09703**	**-.00045**	**5.5718**	**.00561**
Stddev	.0249	.00040	.00007	.0017	.00032
%RSD	.37910	.40870	15.467	.03047	5.6937
#1	6.5493	.09675	-.00050	5.5730	.00584
#2	6.5845	.09731	-.00040	5.5706	.00539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**3.1521**	**-.00061**	**.00188**	**11.635**
Stddev	.00017	.0015	.00321	.00136	.016
%RSD	9.8545	.04740	527.10	72.630	.13429
#1	.00159	3.1511	-.00288	.00091	11.646
#2	.00183	3.1532	.00166	.00284	11.624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.08510**	**.00001**	**-.00098**	**.00041**
Stddev	.00025	.00003	.00016	.00028	.00018
%RSD	64.071	.03374	1434.7	28.766	43.697
#1	-.00057	.08508	.00012	-.00118	.00028
#2	-.00022	.08512	-.00010	-.00078	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-1-A Acquired: 8/28/2017 22:14:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00682
Stddev	.00008
%RSD	1.1811
#1	.00676
#2	.00688
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3990.6	2671.6	21223.	4174.5
Stddev	.3	5.1	8.	37.8
%RSD	.00715	.19254	.03832	.90512
#1	3990.4	2668.0	21229.	4201.2
#2	3990.8	2675.3	21217.	4147.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.921%	99.792%	100.15%	99.710%
Range				

Sample Name: 480-123158-D-2-A Acquired: 8/28/2017 22:18:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.02287**	**-.00030**	**.01807**	**.03712**
Stddev	.00008	.01643	.00303	.00007	.00001
%RSD	7.7210	71.848	1012.2	.36282	.03094
#1	.00110	.03449	-.00244	.01803	.03711
#2	.00099	.01125	.00184	.01812	.03713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**50.686**	**.00011**	**-.0217**	**.00005**
Stddev	.00004	.219	.00017	.0026	.00022
%RSD	26.530	.43232	161.83	12.03	420.34
#1	-.00019	50.531	.00023	-.0236	-.00010
#2	-.00013	50.841	-.00002	-.0199	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.01724**	**-.00222**	**22.517**	**-.00068**
Stddev	.00020	.00095	.00095	.142	.00282
%RSD	43.791	5.5324	42.726	.62954	413.67
#1	-.00031	.01791	-.00155	22.417	.00131
#2	-.00059	.01656	-.00290	22.617	-.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-2-A Acquired: 8/28/2017 22:18:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.283**	**3.9346**	**-.00042**	**8.8071**	**.01122**
Stddev	.021	.0001	.00007	.0479	.00067
%RSD	.12845	.00297	17.628	.54346	5.9548
#1	16.268	3.9347	-.00036	8.7732	.01169
#2	16.297	3.9345	-.00047	8.8409	.01075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**16.959**	**.00113**	**.00076**	**8.3440**
Stddev	.00020	.007	.00055	.00255	.0039
%RSD	10.982	.04356	48.861	334.64	.04608
#1	.00199	16.964	.00074	.00257	8.3413
#2	.00170	16.954	.00152	-.00104	8.3467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.50525**	**-.00007**	**-.00096**	**-.00003**
Stddev	.00018	.00270	.00002	.00098	.00068
%RSD	157.68	.53405	26.286	101.78	2006.3
#1	.00001	.50334	-.00006	-.00165	.00045
#2	-.00025	.50716	-.00009	-.00027	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-2-A Acquired: 8/28/2017 22:18:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01276**
Stddev	.00004
%RSD	.28517
#1	.01274
#2	.01279
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3814.9**	**2630.5**	**20832.**	**4157.3**
Stddev	9.7	9.1	19.	10.5
%RSD	.25455	.34704	.08889	.25173
#1	3808.1	2624.0	20818.	4164.7
#2	3821.8	2636.9	20845.	4149.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.654%	98.254%	98.303%	99.299%
Range				

Sample Name: 480-123158-D-3-A Acquired: 8/28/2017 22:21:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.01872**	**.00646**	**.01006**	**.00006**
Stddev	.00043	.00089	.00099	.00100	.00000
%RSD	206.70	4.7673	15.302	9.9214	3.3472
#1	-.00010	.01809	.00577	.01077	.00005
#2	.00051	.01935	.00716	.00935	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**11.547**	**-.00020**	**-.0033**	**-.00008**
Stddev	.00002	.035	.00019	.0199	.00000
%RSD	13.350	.30429	94.596	601.5	5.9043
#1	-.00013	11.572	-.00033	.0107	-.00008
#2	-.00016	11.522	-.00007	-.0173	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.01364**	**.01109**	**1.7479**	**.00789**
Stddev	.00000	.00032	.00253	.0012	.00127
%RSD	.15294	2.3375	22.813	.06968	16.056
#1	.00038	.01342	.01288	1.7487	.00879
#2	.00039	.01387	.00930	1.7470	.00700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-3-A Acquired: 8/28/2017 22:21:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0086**	**.00105**	**.01518**	**14.383**	**-.00003**
Stddev	.0015	.00005	.00009	.047	.00005
%RSD	.07620	4.8289	.60689	.32439	192.98
#1	2.0075	.00101	.01511	14.416	-.00007
#2	2.0097	.00109	.01524	14.350	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**2.2527**	**-.00123**	**.00488**	**5.6997**
Stddev	.00129	.0024	.00062	.00116	.0023
%RSD	770.62	.10869	50.281	23.701	.04041
#1	-.00074	2.2545	-.00167	.00570	5.7013
#2	.00108	2.2510	-.00079	.00406	5.6981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.09805**	**.00005**	**-.00088**	**.00163**
Stddev	.00019	.00011	.00001	.00069	.00043
%RSD	75.647	.11182	26.525	77.685	26.204
#1	-.00012	.09797	.00004	-.00040	.00193
#2	-.00039	.09813	.00006	-.00137	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-3-A Acquired: 8/28/2017 22:21:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00773**
Stddev	.00002
%RSD	.23447
#1	.00772
#2	.00774
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3988.8**	**2665.0**	**21176.**	**4161.5**
Stddev	.0	6.1	86.	15.4
%RSD	.00084	.22731	.40575	.36897
#1	3988.8	2660.7	21115.	4150.6
#2	3988.8	2669.3	21237.	4172.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.876%	99.544%	99.929%	99.398%
Range				

Sample Name: 480-123158-D-4-A Acquired: 8/28/2017 22:25:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.02293**	**.00013**	**.00622**	**.01005**
Stddev	.00065	.01698	.00037	.00011	.00005
%RSD	142.03	74.072	290.93	1.7998	.50100
#1	-.00000	.01092	.00039	.00630	.01009
#2	.00092	.03493	-.00013	.00614	.01001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.91299**	**-.00004**	**-.0127**	**-.00015**
Stddev	.00005	.00813	.00011	.0221	.00004
%RSD	42.595	.89051	298.98	173.9	25.133
#1	-.00007	.90724	-.00012	-.0284	-.00013
#2	-.00014	.91874	.00004	.0029	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.02511**	**-.00219**	**.44887**	**-.00098**
Stddev	.00021	.00127	.00066	.01860	.00107
%RSD	168.58	5.0737	29.954	4.1447	108.39
#1	.00002	.02421	-.00266	.46202	-.00174
#2	-.00027	.02601	-.00173	.43571	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-4-A Acquired: 8/28/2017 22:25:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50559**	**.00519**	**.00002**	**1.2718**	**.00057**
Stddev	.00385	.00005	.00003	.0030	.00025
%RSD	.76247	.91099	146.81	.23251	43.919
#1	.50286	.00522	-.00000	1.2739	.00075
#2	.50832	.00515	.00005	1.2697	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00166**	**1.0022**	**-.00069**	**.00414**	**2.7803**
Stddev	.00012	.0031	.00012	.00264	.0120
%RSD	7.2889	.30706	16.803	63.789	.43187
#1	.00174	1.0000	-.00077	.00601	2.7718
#2	.00157	1.0044	-.00061	.00227	2.7888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.01348**	**.00022**	**-.00130**	**.00030**
Stddev	.00031	.00004	.00029	.00075	.00043
%RSD	1332.1	.26863	133.45	57.381	145.64
#1	-.00020	.01345	.00001	-.00183	.00060
#2	.00024	.01351	.00042	-.00077	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-4-A Acquired: 8/28/2017 22:25:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01837
Stddev	.00100
%RSD	5.4382
#1	.01908
#2	.01766
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4141.0	2713.6	21703.	4200.5
Stddev	3.7	.2	25.	5.8
%RSD	.08921	.00613	.11688	.13884
#1	4138.4	2713.4	21685.	4196.3
#2	4143.6	2713.7	21721.	4204.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.57%	101.36%	102.41%	100.33%
Range				

Sample Name: 480-123158-D-5-A Acquired: 8/28/2017 22:29:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00954**	**.01875**	**.08998**	**.02490**
Stddev	.00006	.00807	.00187	.00006	.00008
%RSD	15.330	84.577	9.9753	.06292	.33040
#1	.00033	.00383	.02007	.08994	.02496
#2	.00041	.01525	.01743	.09002	.02484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**13.189**	**-.00012**	**.0057**	**-.00021**
Stddev	.00003	.050	.00018	.0325	.00009
%RSD	11.143	.37720	156.42	565.8	43.422
#1	-.00027	13.224	.00001	-.0172	-.00027
#2	-.00023	13.154	-.00025	.0287	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00036**	**.00513**	**2.3939**	**.00290**
Stddev	.00008	.00012	.00050	.0560	.00047
%RSD	15.265	33.597	9.6519	2.3410	16.063
#1	-.00048	.00045	.00548	2.4335	.00322
#2	-.00060	.00027	.00478	2.3543	.00257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-5-A Acquired: 8/28/2017 22:29:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6993**	**.01828**	**.00419**	**15.955**	**.00011**
Stddev	.0123	.00005	.00001	.069	.00018
%RSD	.45687	.30076	.31955	.43163	169.28
#1	2.7080	.01832	.00418	16.004	.00023
#2	2.6906	.01824	.00420	15.907	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**3.9625**	**-.00167**	**.00393**	**3.8863**
Stddev	.00145	.0077	.00114	.00329	.0078
%RSD	470.85	.19378	68.481	83.638	.19971
#1	.00072	3.9571	-.00086	.00626	3.8917
#2	-.00133	3.9680	-.00247	.00161	3.8808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.05277**	**-.00039**	**-.00013**	**.00059**
Stddev	.00028	.00018	.00021	.00251	.00006
%RSD	107.65	.33714	53.104	1916.8	9.7324
#1	-.00006	.05289	-.00054	.00164	.00063
#2	-.00046	.05264	-.00025	-.00190	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-5-A Acquired: 8/28/2017 22:29:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00235
Stddev	.00047
%RSD	19.939
#1	.00268
#2	.00202
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3982.1	2669.0	21112.	4178.8
Stddev	8.8	2.7	97.	23.8
%RSD	.22112	.10029	.46168	.56997
#1	3975.9	2667.1	21043.	4161.9
#2	3988.3	2670.9	21181.	4195.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.713%	99.693%	99.625%	99.811%
Range				

Sample Name: 480-123158-D-6-A Acquired: 8/28/2017 22:32:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.01132**	**.00008**	**.02320**	**.00508**
Stddev	.00067	.01882	.00219	.00004	.00003
%RSD	94.901	166.29	2695.9	.16833	.55802
#1	.00023	-.00199	.00163	.02317	.00506
#2	.00119	.02462	-.00147	.02323	.00510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**30.288**	**.00030**	**-.0080**	**-.00021**
Stddev	.00002	.095	.00003	.0279	.00010
%RSD	11.046	.31356	10.805	347.2	47.186
#1	-.00015	30.356	.00027	.0117	-.00028
#2	-.00013	30.221	.00032	-.0278	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00116**	**-.00149**	**1.6776**	**.00255**
Stddev	.00036	.00011	.00027	.0049	.00018
%RSD	136.27	9.1624	17.867	.28940	6.9657
#1	.00052	.00109	-.00130	1.6811	.00243
#2	.00001	.00124	-.00168	1.6742	.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-6-A Acquired: 8/28/2017 22:32:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.533**	**.00055**	**.00043**	**8.1916**	**.00041**
Stddev	.040	.00003	.00014	.0073	.00032
%RSD	.22698	4.5912	33.443	.08949	78.487
#1	17.505	.00056	.00033	8.1967	.00018
#2	17.561	.00053	.00053	8.1864	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**2.0583**	**.00000**	**.00119**	**5.4069**
Stddev	.00030	.0005	.00131	.00519	.0217
%RSD	841.10	.02245	115170.	435.85	.40106
#1	-.00024	2.0587	-.00092	-.00248	5.4222
#2	.00017	2.0580	.00092	.00486	5.3916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.11039**	**-.00011**	**-.00216**	**.00038**
Stddev	.00021	.00044	.00011	.00205	.00012
%RSD	118.21	.39514	104.97	94.807	31.292
#1	-.00003	.11070	-.00019	-.00071	.00047
#2	-.00033	.11008	-.00003	-.00361	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-6-A Acquired: 8/28/2017 22:32:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00274**
Stddev	.00017
%RSD	6.0526
#1	.00285
#2	.00262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3884.8**	**2647.9**	**21049.**	**4167.4**
Stddev	4.1	2.2	18.	15.5
%RSD	.10608	.08265	.08387	.37203
#1	3887.7	2646.4	21062.	4156.4
#2	3881.8	2649.5	21037.	4178.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.350%	98.907%	99.330%	99.540%
Range				

Sample Name: 480-123158-D-7-A Acquired: 8/28/2017 22:36:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00691**	**.00202**	**.04962**	**.00351**
Stddev	.00036	.00260	.00069	.00044	.00003
%RSD	72.386	37.585	34.105	.88282	.78580
#1	.00024	-.00875	.00153	.04993	.00353
#2	.00075	-.00507	.00251	.04931	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**39.695**	**.00027**	**-.0170**	**-.00013**
Stddev	.00011	.075	.00003	.0163	.00012
%RSD	54.585	.18910	12.057	95.71	90.538
#1	-.00027	39.748	.00029	-.0055	-.00021
#2	-.00012	39.642	.00024	-.0285	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**-.00039**	**.02445**	**2.1623**	**.00569**
Stddev	.00021	.00023	.00160	.0271	.00129
%RSD	30.221	58.341	6.5558	1.2516	22.687
#1	-.00054	-.00023	.02559	2.1815	.00478
#2	-.00083	-.00055	.02332	2.1432	.00660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-7-A Acquired: 8/28/2017 22:36:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.522**	**.13875**	**-.00025**	**19.473**	**.00121**
Stddev	.088	.00021	.00039	.018	.00053
%RSD	.19756	.14927	158.79	.09418	44.037
#1	44.584	.13861	.00003	19.486	.00158
#2	44.460	.13890	-.00052	19.460	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**4.6924**	**-.00017**	**.00179**	**9.0075**
Stddev	.00031	.0058	.00086	.00157	.0087
%RSD	15.026	.12435	497.60	87.618	.09685
#1	.00230	4.6965	.00044	.00289	9.0013
#2	.00186	4.6883	-.00078	.00068	9.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.19452**	**.00037**	**.00010**	**-.00095**
Stddev	.00015	.00004	.00027	.00030	.00001
%RSD	29.828	.01826	71.922	313.95	.53746
#1	.00062	.19455	.00018	-.00012	-.00095
#2	.00040	.19450	.00056	.00031	-.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-7-A Acquired: 8/28/2017 22:36:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00186
Stddev	.00021
%RSD	11.039
#1	.00201
#2	.00172
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3760.9	2617.9	20875.	4137.0
Stddev	6.8	5.9	22.	20.2
%RSD	.18031	.22357	.10546	.48913
#1	3765.7	2622.1	20859.	4122.7
#2	3756.1	2613.8	20891.	4151.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.341%	97.785%	98.508%	98.814%
Range				

Sample Name: 480-123169-C-1-A Acquired: 8/28/2017 22:39:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.05175**	**.12382**	**6.3764**	**.99849**
Stddev	.00027	.00837	.00038	.0092	.00191
%RSD	98.047	16.177	.30567	.14400	.19083
#1	.00008	.05767	.12409	6.3829	.99715
#2	.00047	.04583	.12355	6.3700	.99984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**86.344**	**.00030**	**.0018**	**.03711**
Stddev	.00014	.062	.00010	.0147	.00044
%RSD	73.321	.07138	33.714	816.2	1.1876
#1	-.00009	86.300	.00038	.0122	.03742
#2	-.00028	86.387	.00023	-.0086	.03680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02575**	**.00106**	**9.2475**	F **642.02**	**.01200**
Stddev	.00088	.00041	.0252	1.09	.00151
%RSD	3.4102	38.588	.27247	.16933	12.615
#1	.02637	.00077	9.2297	641.25	.01093
#2	.02513	.00135	9.2653	642.78	.01307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-123169-C-1-A Acquired: 8/28/2017 22:39:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**129.26**	**.08889**	**.00354**	**1207.7**	**.33710**
Stddev	.17	.00005	.00001	3.0	.00028
%RSD	.13136	.05393	.24705	.24908	.08190
#1	129.14	.08892	.00355	1205.6	.33691
#2	129.38	.08885	.00354	1209.9	.33730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00266**	**25.757**	**-.00033**	**.00212**	**14.526**
Stddev	.00005	.074	.00039	.00223	.005
%RSD	1.9908	.28733	117.85	105.14	.03706
#1	.00262	25.809	-.00005	.00054	14.522
#2	.00269	25.704	-.00060	.00370	14.529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00550**	**1.0563**	**.05869**	**-.00372**	**.02420**
Stddev	.00080	.0019	.00097	.00067	.00105
%RSD	14.513	.17726	1.6455	18.076	4.3457
#1	.00607	1.0550	.05937	-.00420	.02346
#2	.00494	1.0577	.05800	-.00325	.02495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123169-C-1-A Acquired: 8/28/2017 22:39:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01427**
Stddev	.00016
%RSD	1.1237
#1	.01438
#2	.01416
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2929.3**	**2324.3**	**17826.**	**4083.9**
Stddev	4.4	1.5	12.	13.4
%RSD	.14900	.06573	.06959	.32932
#1	2926.2	2323.2	17835.	4074.4
#2	2932.4	2325.4	17817.	4093.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.144%	86.818%	84.120%	97.546%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:43:40 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50484**	**24.045**	**.50074**	**.51462**	**.49541**
Stddev	.00256	.140	.00096	.00163	.00071
%RSD	.50655	.58304	.19124	.31758	.14387
#1	.50665	24.144	.50142	.51577	.49591
#2	.50303	23.946	.50007	.51346	.49491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50241**	**24.630**	**.50270**	**.0034**	**.49207**
Stddev	.00205	.024	.00119	.0358	.00042
%RSD	.40754	.09782	.23657	1063.	.08489
#1	.50385	24.647	.50354	-.0220	.49237
#2	.50096	24.613	.50186	.0287	.49178
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50804**	**.50509**	**23.869**	**25.854**	**.51547**
Stddev	.00110	.00050	.054	.083	.00245
%RSD	.21665	.09805	.22756	.31952	.47464
#1	.50882	.50474	23.907	25.913	.51720
#2	.50727	.50544	23.830	25.796	.51374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:43:40 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.990**	**.51093**	**.49980**	**25.631**	**.50034**
Stddev	.031	.00012	.00108	.102	.00135
%RSD	.12545	.02353	.21582	.39737	.27075
#1	25.012	.51085	.50056	25.703	.50129
#2	24.968	.51102	.49904	25.559	.49938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49523**	**25.360**	**.50184**	**.50263**	**24.225**
Stddev	.00378	.055	.00130	.00105	.044
%RSD	.76275	.21639	.25912	.20884	.18362
#1	.49790	25.399	.50276	.50337	24.256
#2	.49256	25.321	.50092	.50189	24.194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51313**	**.50015**	**.49900**	**.50384**	**.50341**
Stddev	.00018	.00287	.00035	.00214	.00010
%RSD	.03529	.57373	.07026	.42465	.01947
#1	.51300	.50218	.49875	.50536	.50335
#2	.51325	.49812	.49925	.50233	.50348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:43:40 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50329
Stddev	.00287
%RSD	.57107
#1	.50532
#2	.50126
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3716.1	2635.2	20701.	4092.2
Stddev	10.3	8.0	53.	20.2
%RSD	.27697	.30240	.25389	.49411
#1	3708.8	2629.6	20664.	4077.9
#2	3723.4	2640.9	20739.	4106.5

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:47:08 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00190**	**.00009**	**.00452**	**-.00013**
Stddev	.00045	.00589	.00013	.00049	.00003
%RSD	309.46	310.06	143.48	10.759	21.062
#1	-.00046	-.00227	-.00000	.00486	-.00015
#2	.00017	.00607	.00019	.00417	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00376**	**-.00021**	**-.0115**	**.00002**
Stddev	.00006	.00038	.00007	.0141	.00004
%RSD	49.553	10.052	34.769	122.0	193.43
#1	-.00016	-.00403	-.00016	-.0215	.00004
#2	-.00007	-.00350	-.00026	-.0016	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00070**	**-.00568**	**.07654**	**-.00139**
Stddev	.00035	.00115	.00033	.04639	.00119
%RSD	4854.6	164.43	5.8402	60.603	85.418
#1	.00024	.00151	-.00545	.04374	-.00223
#2	-.00025	-.00011	-.00592	.10934	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:47:08 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00726**	**-.00005**	**-.00026**	**.06380**	**-.00007**
Stddev	.00476	.00003	.00024	.01038	.00013
%RSD	65.651	46.623	95.076	16.269	199.08
#1	-.00389	-.00004	-.00008	.07114	-.00016
#2	-.01062	-.00007	-.00043	.05646	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**-.00606**	**-.00071**	**.00126**	**.00825**
Stddev	.00074	.00147	.00005	.00180	.00337
%RSD	79.059	24.196	7.5739	142.34	40.817
#1	-.00041	-.00502	-.00074	.00253	.00587
#2	-.00145	-.00709	-.00067	-.00001	.01063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00009**	**.00040**	**-.00107**	**.00030**
Stddev	.00018	.00013	.00012	.00018	.00015
%RSD	71.539	148.02	30.135	17.162	49.056
#1	.00038	.00000	.00048	-.00094	.00041
#2	.00012	-.00018	.00031	-.00120	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:47:08 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00037**
Stddev	.00001
%RSD	1.4618
#1	.00037
#2	.00037
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4136.0**	**2684.4**	**21472.**	**4116.5**
Stddev	25.8	14.8	59.	7.0
%RSD	.62380	.55265	.27244	.17033
#1	4117.7	2673.9	21431.	4111.5
#2	4154.2	2694.9	21514.	4121.5

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:50:48 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00579**	**.20021**	**.01447**	**.02285**	**.00200**
Stddev	.00032	.01975	.00381	.00010	.00001
%RSD	5.4754	9.8651	26.361	.42055	.57124
#1	.00556	.18624	.01177	.02278	.00200
#2	.00601	.21417	.01717	.02292	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**.49193**	**.00183**	**.0051**	**.00372**
Stddev	.00008	.00281	.00007	.0223	.00009
%RSD	4.1240	.57092	3.7985	441.0	2.5320
#1	.00195	.49392	.00188	.0209	.00379
#2	.00184	.48995	.00178	-.0107	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00410**	**.01082**	**.04680**	**.58983**	**.02900**
Stddev	.00008	.00079	.00249	.00201	.00203
%RSD	1.8497	7.2609	5.3173	.34102	6.9851
#1	.00405	.01137	.04856	.58840	.02757
#2	.00416	.01026	.04505	.59125	.03043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:50:48 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19881**	**.00305**	**.00964**	**1.0629**	**.00934**
Stddev	.00131	.00009	.00009	.0095	.00029
%RSD	.65728	2.8456	.94815	.89528	3.0896
#1	.19788	.00299	.00957	1.0696	.00955
#2	.19973	.00311	.00970	1.0561	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00946**	**.19192**	**.01982**	**.02636**	**.48891**
Stddev	.00045	.00215	.00060	.00129	.00227
%RSD	4.7732	1.1189	3.0308	4.8771	.46387
#1	.00914	.19344	.01940	.02545	.48731
#2	.00978	.19040	.02025	.02726	.49051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00969**	**.00483**	**.00509**	**.01869**	**.00505**
Stddev	.00049	.00005	.00013	.00005	.00025
%RSD	5.0277	1.0796	2.5433	.27836	4.9883
#1	.01004	.00487	.00500	.01865	.00523
#2	.00935	.00480	.00519	.01873	.00487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:50:48 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01075
Stddev	.00043
%RSD	4.0036
#1	.01105
#2	.01045
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4127.1	2697.4	21616.	4154.5
Stddev	.9	5.3	56.	23.3
%RSD	.02183	.19611	.25860	.56077
#1	4127.8	2701.1	21576.	4138.1
#2	4126.5	2693.6	21655.	4171.0

Sample Name: 480-123168-C-1-A Acquired: 8/28/2017 22:54:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.14333**	**.04533**	**5.0522**	**.31774**
Stddev	.00016	.00193	.00049	.0005	.00105
%RSD	32.155	1.3469	1.0910	.00955	.32946
#1	-.00038	.14470	.04568	5.0525	.31700
#2	-.00060	.14197	.04498	5.0518	.31848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**56.547**	**.00014**	**-.0043**	**.01341**
Stddev	.00004	.589	.00000	.0326	.00001
%RSD	30.544	1.0411	.82718	765.7	.08846
#1	-.00009	56.130	.00014	-.0273	.01342
#2	-.00014	56.963	.00014	.0188	.01341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03746**	**.03330**	**3.0113**	**235.25**	**.08629**
Stddev	.00016	.00100	.0158	2.14	.00181
%RSD	.43118	3.0178	.52503	.90926	2.0957
#1	.03734	.03401	3.0001	233.73	.08501
#2	.03757	.03259	3.0225	236.76	.08757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-C-1-A Acquired: 8/28/2017 22:54:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**82.680**	**.19312**	**.01007**	**840.48**	**.13386**
Stddev	.158	.00114	.00007	8.07	.00006
%RSD	.19118	.59240	.67952	.96021	.04269
#1	82.568	.19231	.01002	834.77	.13382
#2	82.791	.19393	.01012	846.18	.13390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00456**	**31.702**	**.01204**	**.00140**	**13.718**
Stddev	.00211	.044	.00125	.00070	.161
%RSD	46.383	.14005	10.381	49.812	1.1760
#1	.00605	31.733	.01293	.00091	13.603
#2	.00306	31.670	.01116	.00189	13.832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00839**	**.41322**	**.03647**	**-.00191**	**.01761**
Stddev	.00000	.00423	.00003	.00026	.00001
%RSD	.05569	1.0245	.09506	13.413	.07300
#1	.00839	.41023	.03650	-.00209	.01760
#2	.00840	.41621	.03645	-.00173	.01762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-C-1-A Acquired: 8/28/2017 22:54:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03254
Stddev	.00009
%RSD	.26717
#1	.03247
#2	.03260
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3114.3	2419.9	18670.	4108.6
Stddev	.9	1.4	46.	46.3
%RSD	.02893	.05644	.24484	1.1272
#1	3114.9	2418.9	18703.	4141.3
#2	3113.7	2420.9	18638.	4075.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.638%	90.389%	88.105%	98.135%
Range				

Sample Name: 480-123168-C-2-A Acquired: 8/28/2017 22:58:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**1.7710**	**.04540**	**4.8576**	**.30273**
Stddev	.00035	.0047	.00179	.0071	.00016
%RSD	66.391	.26686	3.9493	.14541	.05358
#1	-.00028	1.7677	.04667	4.8526	.30262
#2	-.00078	1.7743	.04413	4.8626	.30285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**54.808**	**.00041**	**.0103**	**.01438**
Stddev	.00002	.273	.00001	.0276	.00004
%RSD	42.493	.49892	2.6020	268.2	.24948
#1	-.00002	54.615	.00040	.0298	.01435
#2	-.00005	55.001	.00041	-.0092	.01440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04455**	**.00676**	**7.8307**	**222.13**	**.08337**
Stddev	.00023	.00016	.0360	.65	.00050
%RSD	.51605	2.3037	.46038	.29442	.60467
#1	.04438	.00687	7.8053	221.67	.08373
#2	.04471	.00665	7.8562	222.60	.08301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-C-2-A Acquired: 8/28/2017 22:58:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**75.917**	**.24558**	**.01424**	**788.31**	**.13155**
Stddev	.126	.00022	.00001	2.50	.00014
%RSD	.16555	.08773	.06910	.31738	.10301
#1	75.828	.24543	.01425	786.54	.13165
#2	76.005	.24573	.01423	790.08	.13146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00788**	**27.585**	**.01140**	**.00526**	**15.925**
Stddev	.00138	.014	.00081	.00044	.089
%RSD	17.545	.04983	7.1124	8.3388	.55977
#1	.00690	27.575	.01082	.00495	15.861
#2	.00886	27.594	.01197	.00557	15.988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01547**	**.37024**	**.07914**	**-.00164**	**.02529**
Stddev	.00050	.00178	.00099	.00014	.00051
%RSD	3.2006	.48168	1.2571	8.3433	2.0097
#1	.01582	.36898	.07984	-.00173	.02565
#2	.01512	.37150	.07843	-.00154	.02494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-C-2-A Acquired: 8/28/2017 22:58:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.08881
Stddev	.00004
%RSD	.04977
#1	.08877
#2	.08884
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3132.8	2437.8	18809.	4109.9
Stddev	3.7	2.5	13.	27.9
%RSD	.11654	.10112	.06800	.67829
#1	3135.3	2439.5	18818.	4129.6
#2	3130.2	2436.1	18800.	4090.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.086%	91.058%	88.759%	98.166%
Range				

Sample Name: 480-123168-C-3-A Acquired: 8/28/2017 23:01:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.28429**	**.09045**	**9.9206**	**.87629**
Stddev	.00017	.00120	.00358	.0025	.00511
%RSD	22.433	.42354	3.9621	.02527	.58355
#1	-.00063	.28514	.09299	9.9224	.87267
#2	-.00087	.28344	.08792	9.9189	.87990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**52.705**	**.00066**	**-.0196**	**.04583**
Stddev	.00004	.208	.00020	.0167	.00010
%RSD	45.184	.39504	30.391	85.67	.22203
#1	-.00007	52.558	.00052	-.0077	.04575
#2	-.00013	52.853	.00080	-.0314	.04590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25009**	**.00470**	**4.5715**	F **621.45**	**.19406**
Stddev	.00076	.00118	.0388	1.84	.00363
%RSD	.30317	25.164	.84774	.29655	1.8701
#1	.25062	.00554	4.5441	620.15	.19150
#2	.24955	.00386	4.5989	622.75	.19663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-123168-C-3-A Acquired: 8/28/2017 23:01:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**126.52**	**.12951**	**.01094**	**2025.7**	**.38695**
Stddev	.27	.00069	.00001	9.5	.00027
%RSD	.20961	.53261	.04796	.46934	.06903
#1	126.71	.13000	.01094	2019.0	.38676
#2	126.34	.12902	.01093	2032.4	.38714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00881**	**46.690**	**.01873**	**.00523**	**27.109**
Stddev	.00280	.062	.00073	.00540	.128
%RSD	31.788	.13329	3.9040	103.19	.47295
#1	.00683	46.734	.01925	.00141	27.019
#2	.01079	46.646	.01821	.00905	27.200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04087**	**.54481**	**.23931**	**-.00452**	**.08312**
Stddev	.00201	.00084	.00058	.00146	.00026
%RSD	4.9249	.15392	.24205	32.380	.31146
#1	.04229	.54422	.23972	-.00556	.08330
#2	.03945	.54540	.23890	-.00349	.08294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-C-3-A Acquired: 8/28/2017 23:01:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.40852**
Stddev	.00142
%RSD	.34639
#1	.40752
#2	.40952
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2812.6**	**2280.4**	**17256.**	**3987.5**
Stddev	.2	.0	42.	.5
%RSD	.00578	.00105	.24480	.01244
#1	2812.7	2280.4	17227.	3987.2
#2	2812.5	2280.4	17286.	3987.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.310%	85.178%	81.432%	95.243%
Range				

Sample Name: mb 480-373988/1-a Acquired: 8/28/2017 23:05:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.01277**	**-.00036**	**.01766**	**-.00006**
Stddev	.00152	.00508	.00065	.00165	.00000
%RSD	750.74	39.818	179.62	9.3349	.80808
#1	-.00128	.00917	-.00083	.01882	-.00006
#2	.00087	.01636	.00010	.01649	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.03127**	**-.00015**	**-.0234**	**-.00001**
Stddev	.00000	.00116	.00007	.0078	.00002
%RSD	1.1625	3.6959	45.855	33.39	293.99
#1	-.00023	.03045	-.00019	-.0179	.00001
#2	-.00024	.03209	-.00010	-.0289	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00052**	**-.00502**	**.37483**	**.00037**
Stddev	.00027	.00002	.00088	.07085	.00103
%RSD	201.49	3.7974	17.491	18.903	279.47
#1	.00006	-.00053	-.00565	.42493	.00109
#2	-.00033	-.00050	-.00440	.32473	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-373988/1-a Acquired: 8/28/2017 23:05:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00278**	**.00159**	**-.00049**	**.24459**	**.00006**
Stddev	.00076	.00002	.00010	.00646	.00011
%RSD	27.208	1.2282	20.468	2.6432	171.97
#1	-.00331	.00161	-.00056	.24916	.00014
#2	-.00224	.00158	-.00042	.24002	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**.00549**	**.00060**	**.00441**	**.06731**
Stddev	.00009	.00066	.00024	.00017	.01072
%RSD	7.1810	12.112	40.593	3.8407	15.924
#1	-.00131	.00502	.00043	.00429	.07489
#2	-.00118	.00596	.00077	.00453	.05973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00020**	**.00015**	**-.00126**	**.00002**
Stddev	.00026	.00001	.00018	.00180	.00069
%RSD	351.60	3.2238	121.33	142.85	3035.0
#1	.00026	.00020	.00027	.00001	-.00047
#2	-.00011	.00019	.00002	-.00254	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-373988/1-a Acquired: 8/28/2017 23:05:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00023
Stddev	.00037
%RSD	160.81
#1	-.00003
#2	.00049
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4192.2	2718.3	21803.	4202.9
Stddev	.2	.4	28.	10.8
%RSD	.00368	.01507	.12822	.25688
#1	4192.1	2718.0	21823.	4210.5
#2	4192.3	2718.6	21783.	4195.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.82%	101.53%	102.89%	100.39%
Range				

Sample Name: lcs 480-373988/2-a Acquired: 8/28/2017 23:09:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04589**	F **8.3495**	**.20036**	**.18754**	**.17644**
Stddev	.00017	.0127	.00082	.00051	.00011
%RSD	.36666	.15256	.40749	.27324	.06403
#1	.04601	8.3405	.20093	.18717	.17652
#2	.04577	8.3585	.19978	.18790	.17636
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		11.500			
Low Limit		8.5000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20065**	**9.7523**	**.20528**	**-.0036**	**.19023**
Stddev	.00083	.0343	.00008	.0068	.00022
%RSD	.41477	.35163	.03741	187.1	.11307
#1	.20007	9.7281	.20522	-.0084	.19038
#2	.20124	9.7766	.20533	.0012	.19008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19766**	**.20809**	**9.9716**	**8.8851**	**.17565**
Stddev	.00129	.00127	.0400	.0077	.00057
%RSD	.65351	.61233	.40134	.08675	.32688
#1	.19857	.20899	9.9433	8.8796	.17606
#2	.19675	.20719	9.9999	8.8905	.17525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-373988/2-a Acquired: 8/28/2017 23:09:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.338**	**.21128**	**.20228**	**8.6452**	**.19583**
Stddev	.014	.00031	.00032	.0008	.00140
%RSD	.13436	.14737	.15964	.00988	.71667
#1	10.328	.21150	.20205	8.6458	.19682
#2	10.347	.21106	.20250	8.6446	.19484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20222**	**9.9914**	**.20178**	**.20185**	**9.8663**
Stddev	.00039	.0115	.00127	.00090	.0638
%RSD	.19041	.11515	.63137	.44509	.64669
#1	.20249	9.9833	.20268	.20122	9.8212
#2	.20195	9.9995	.20088	.20249	9.9114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18202**	F **.16823**	**.19725**	**.20190**	**.20418**
Stddev	.00031	.00026	.00038	.00024	.00057
%RSD	.16854	.15244	.19139	.11724	.27980
#1	.18224	.16805	.19698	.20207	.20378
#2	.18180	.16841	.19752	.20173	.20459
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: lcs 480-373988/2-a Acquired: 8/28/2017 23:09:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20465**
Stddev	.00014
%RSD	.07032
#1	.20455
#2	.20475
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3948.7**	**2697.0**	**21392.**	**4199.9**
Stddev	3.4	.9	36.	21.5
%RSD	.08621	.03282	.16687	.51122
#1	3946.3	2696.4	21417.	4215.1
#2	3951.1	2697.6	21367.	4184.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.902%	100.74%	100.95%	100.32%
Range				

Sample Name: lcsd 480-373988/3-a Acquired: 8/28/2017 23:12:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04631	9.8978	.20309	.21597	.20728
Stddev	.00013	.0719	.00003	.00009	.00015
%RSD	.27099	.72658	.01270	.04385	.07475
#1	.04622	9.9486	.20311	.21590	.20739
#2	.04640	9.8469	.20307	.21603	.20717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20220	9.8133	.20508	-.0235	.19043
Stddev	.00084	.0349	.00062	.0101	.00027
%RSD	.41626	.35534	.30296	42.85	.14249
#1	.20279	9.8380	.20552	-.0164	.19062
#2	.20160	9.7887	.20464	-.0306	.19024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19903	.20715	9.9821	10.353	.20796
Stddev	.00034	.00012	.0050	.014	.00018
%RSD	.17104	.05657	.04975	.13381	.08580
#1	.19879	.20724	9.9786	10.363	.20784
#2	.19927	.20707	9.9857	10.343	.20809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-373988/3-a Acquired: 8/28/2017 23:12:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.307**	**.21131**	**.20254**	**10.176**	**.19582**
Stddev	.019	.00039	.00088	.038	.00049
%RSD	.18405	.18511	.43288	.37787	.24873
#1	10.320	.21103	.20316	10.203	.19548
#2	10.293	.21159	.20192	10.148	.19617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20201**	**10.009**	**.20216**	**.20055**	**9.8913**
Stddev	.00164	.016	.00061	.00017	.0006
%RSD	.81116	.15814	.30352	.08290	.00650
#1	.20317	10.020	.20172	.20067	9.8909
#2	.20085	9.9977	.20259	.20043	9.8918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18150**	**.20010**	**.19642**	**.20033**	**.20453**
Stddev	.00051	.00158	.00084	.00067	.00017
%RSD	.27937	.78754	.42848	.33225	.08219
#1	.18186	.20121	.19702	.20080	.20464
#2	.18114	.19898	.19583	.19986	.20441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-373988/3-a Acquired: 8/28/2017 23:12:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20349**
Stddev	.00058
%RSD	.28388
#1	.20308
#2	.20390
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3938.0**	**2692.9**	**21267.**	**4185.3**
Stddev	.7	3.8	38.	2.1
%RSD	.01709	.14000	.17844	.05137
#1	3938.5	2690.2	21240.	4186.8
#2	3937.6	2695.5	21293.	4183.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.644%	100.58%	100.36%	99.968%
Range				

Sample Name: 480-123173-b-1-b Acquired: 8/28/2017 23:15:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.04468**	**.00167**	**.02606**	**.04049**
Stddev	.00109	.01060	.00106	.00052	.00007
%RSD	139.14	23.721	63.208	1.9763	.18039
#1	-.00001	.03719	.00093	.02642	.04044
#2	-.00156	.05218	.00242	.02570	.04054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**69.590**	**.00009**	**.0149**	**.00039**
Stddev	.00019	.126	.00010	.0114	.00000
%RSD	111.33	.18130	113.04	76.74	.03505
#1	-.00004	69.679	.00002	.0068	.00039
#2	-.00031	69.501	.00015	.0230	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00005**	**.03856**	**1.1822**	**-.00093**
Stddev	.00039	.00052	.00017	.0658	.00067
%RSD	60.268	958.05	.44802	5.5650	72.194
#1	-.00092	-.00032	.03868	1.2287	-.00045
#2	-.00037	.00043	.03843	1.1357	-.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-b Acquired: 8/28/2017 23:15:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.859**	**.18949**	**.00146**	**11.334**	**.00083**
Stddev	.087	.00052	.00005	.043	.00007
%RSD	.32410	.27368	3.3942	.37911	8.9002
#1	26.797	.18912	.00149	11.364	.00088
#2	26.920	.18985	.00142	11.303	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**13.117**	**-.00038**	**.00106**	**4.2388**
Stddev	.00047	.014	.00044	.00094	.0040
%RSD	84.711	.10906	117.15	89.056	.09335
#1	.00088	13.127	-.00069	.00039	4.2415
#2	.00022	13.107	-.00006	.00172	4.2360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.08117**	**.00029**	**-.00217**	**-.00050**
Stddev	.00023	.00040	.00001	.00032	.00046
%RSD	90.950	.49065	4.5820	14.916	91.535
#1	-.00009	.08145	.00030	-.00240	-.00018
#2	-.00042	.08089	.00028	-.00194	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-b Acquired: 8/28/2017 23:15:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00856
Stddev	.00003
%RSD	.34724
#1	.00854
#2	.00858
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3785.3	2612.3	20683.	4112.1
Stddev	5.7	1.0	69.	4.7
%RSD	.15034	.03695	.33553	.11382
#1	3781.3	2611.6	20732.	4115.4
#2	3789.4	2613.0	20634.	4108.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.935%	97.577%	97.603%	98.220%
Range				

Sample Name: 480-123173-b-1-bPDS Acquired: 8/28/2017 23:19:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05024**	**9.6861**	**.20693**	**.22930**	**.24054**
Stddev	.00126	.0584	.00183	.00062	.00023
%RSD	2.5126	.60276	.88564	.27192	.09645
#1	.05113	9.7274	.20564	.22974	.24071
#2	.04935	9.6448	.20823	.22886	.24038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20646**	**76.734**	**.21183**	**-.0108**	**.19672**
Stddev	.00095	.732	.00014	.0035	.00044
%RSD	.45774	.95404	.06608	32.51	.22269
#1	.20713	77.252	.21173	-.0132	.19641
#2	.20579	76.217	.21193	-.0083	.19703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20373**	**.20987**	**10.113**	**11.272**	**.20359**
Stddev	.00029	.00117	.062	.006	.00232
%RSD	.14081	.55854	.61736	.05017	1.1417
#1	.20393	.21070	10.157	11.276	.20523
#2	.20352	.20905	10.069	11.268	.20194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-bPDS Acquired: 8/28/2017 23:19:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.304**	**.38994**	**.20282**	**20.870**	**.20035**
Stddev	.006	.00170	.00024	.194	.00059
%RSD	.01556	.43590	.11723	.93022	.29468
#1	36.308	.39114	.20266	21.007	.20077
#2	36.300	.38874	.20299	20.733	.19993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21096**	**23.146**	**.21554**	**.20820**	**13.855**
Stddev	.00130	.005	.00006	.00158	.120
%RSD	.61480	.02229	.02663	.75895	.86254
#1	.21004	23.150	.21550	.20932	13.940
#2	.21188	23.143	.21558	.20708	13.771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20229**	**.27176**	**.20220**	**.20735**	**.20771**
Stddev	.00016	.00272	.00034	.00118	.00072
%RSD	.08103	1.0027	.16785	.56891	.34478
#1	.20241	.27369	.20196	.20652	.20822
#2	.20218	.26984	.20244	.20819	.20720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-bPDS Acquired: 8/28/2017 23:19:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20794**
Stddev	.00023
%RSD	.10926
#1	.20810
#2	.20778
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3678.3**	**2616.1**	**20685.**	**4143.8**
Stddev	3.7	3.8	15.	27.2
%RSD	.10160	.14434	.07152	.65716
#1	3675.7	2613.5	20695.	4124.6
#2	3681.0	2618.8	20675.	4163.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.336%	97.719%	97.611%	98.977%
Range				

Sample Name: 480-123173-b-1-bSD@5 Acquired: 8/28/2017 23:22:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.01594**	**.00136**	**.00774**	**.00799**
Stddev	.00010	.02615	.00093	.00015	.00003
%RSD	17.513	164.07	68.695	1.9317	.38457
#1	.00049	.03444	.00070	.00785	.00797
#2	.00063	-.00255	.00202	.00764	.00801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**13.537**	**-.00016**	**.0274**	**.00013**
Stddev	.00004	.067	.00013	.0108	.00009
%RSD	32.217	.49824	81.964	39.44	75.091
#1	-.00011	13.584	-.00007	.0197	.00006
#2	-.00017	13.489	-.00025	.0350	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.00027**	**.00269**	**.22793**	**.00008**
Stddev	.00073	.00011	.00010	.06627	.00202
%RSD	142.31	40.680	3.6182	29.074	2612.6
#1	-.00102	.00019	.00262	.18107	-.00135
#2	.00000	.00034	.00276	.27479	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-bSD@5 Acquired: 8/28/2017 23:22:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2201**	**.03749**	**.00006**	**2.2534**	**.00038**
Stddev	.0005	.00014	.00005	.0063	.00003
%RSD	.00874	.36907	90.660	.28006	8.2360
#1	5.2204	.03759	.00002	2.2578	.00040
#2	5.2198	.03739	.00010	2.2489	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**2.4670**	**-.00065**	**.00259**	**.80998**
Stddev	.00066	.0016	.00096	.00080	.01000
%RSD	81.260	.06584	148.81	30.996	1.2342
#1	-.00035	2.4682	.00003	.00315	.81705
#2	-.00128	2.4659	-.00132	.00202	.80291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.01574**	**-.00025**	**-.00082**	**.00006**
Stddev	.00004	.00003	.00010	.00122	.00039
%RSD	10.735	.18999	38.425	149.71	669.31
#1	.00038	.01572	-.00018	-.00168	-.00022
#2	.00033	.01576	-.00032	.00005	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-bSD@5 Acquired: 8/28/2017 23:22:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00720**
Stddev	.00033
%RSD	4.6008
#1	.00697
#2	.00744
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4018.8**	**2663.3**	**21148.**	**4121.2**
Stddev	3.9	1.6	33.	30.2
%RSD	.09818	.06021	.15532	.73221
#1	4016.0	2662.1	21171.	4099.9
#2	4021.6	2664.4	21124.	4142.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.605%	99.480%	99.795%	98.436%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 23:26:32 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50282**	**23.881**	**.50359**	**.50970**	**.49990**
Stddev	.00163	.040	.00037	.00143	.00225
%RSD	.32371	.16865	.07327	.28110	.44949
#1	.50167	23.853	.50333	.50868	.49831
#2	.50397	23.910	.50385	.51071	.50149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50348**	**24.459**	**.50242**	**-.0055**	**.49244**
Stddev	.00004	.065	.00040	.0212	.00028
%RSD	.00815	.26667	.07866	381.7	.05681
#1	.50345	24.413	.50214	-.0205	.49224
#2	.50351	24.505	.50270	.0094	.49263
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50244**	**.51671**	**23.652**	**25.895**	**.51635**
Stddev	.00176	.00290	.068	.005	.00064
%RSD	.35100	.56176	.28610	.01996	.12373
#1	.50119	.51877	23.605	25.898	.51590
#2	.50369	.51466	23.700	25.891	.51680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 23:26:32 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.053**	**.51518**	**.49616**	**25.552**	**.50142**
Stddev	.012	.00141	.00100	.009	.00044
%RSD	.04698	.27363	.20196	.03575	.08811
#1	25.061	.51418	.49546	25.546	.50173
#2	25.044	.51617	.49687	25.559	.50110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49425**	**25.324**	**.50092**	**.49437**	**23.788**
Stddev	.00208	.037	.00013	.00073	.015
%RSD	.42097	.14514	.02542	.14677	.06493
#1	.49278	25.298	.50083	.49386	23.799
#2	.49572	25.350	.50101	.49488	23.777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51310**	**.49860**	**.49563**	**.49914**	**.49996**
Stddev	.00246	.00086	.00137	.00048	.00146
%RSD	.47849	.17179	.27542	.09549	.29106
#1	.51136	.49799	.49467	.49881	.49893
#2	.51484	.49921	.49660	.49948	.50099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 23:26:32 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50404**
Stddev	.00134
%RSD	.26630
#1	.50309
#2	.50499
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3723.2**	**2645.1**	**20691.**	**4110.1**
Stddev	5.2	4.9	43.	13.6
%RSD	.14013	.18459	.20855	.33112
#1	3726.9	2648.6	20721.	4119.8
#2	3719.5	2641.7	20660.	4100.5

Sample Name: CCB-4204839 Acquired: 8/28/2017 23:30:00 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**-.00362**	**.00157**	**.00260**	**-.00012**
Stddev	.00004	.01101	.00237	.00026	.00002
%RSD	6.2179	304.41	150.67	10.087	16.237
#1	.00061	.00417	.00325	.00279	-.00013
#2	.00067	-.01141	-.00010	.00241	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00463**	**-.00021**	**.0134**	**-.00008**
Stddev	.00004	.00445	.00009	.0173	.00009
%RSD	21.845	96.079	41.750	128.7	106.31
#1	-.00015	-.00778	-.00027	.0012	-.00014
#2	-.00020	-.00148	-.00015	.0256	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00023**	**-.00676**	**.05885**	**-.00163**
Stddev	.00060	.00026	.00018	.02677	.00071
%RSD	168.16	113.23	2.6464	45.486	43.842
#1	-.00078	.00005	-.00663	.07777	-.00213
#2	.00007	.00041	-.00688	.03992	-.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 23:30:00 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00635**	**-.00010**	**-.00022**	**.03909**	**.00002**
Stddev	.00111	.00006	.00025	.00564	.00028
%RSD	17.541	63.569	114.42	14.433	1197.7
#1	-.00556	-.00015	-.00040	.04307	.00023
#2	-.00713	-.00006	-.00004	.03510	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**-.00264**	**.00050**	**.00383**	**-.00551**
Stddev	.00065	.00098	.00013	.00229	.00981
%RSD	89.746	37.270	26.569	59.833	177.92
#1	-.00026	-.00334	.00041	.00545	.00142
#2	-.00118	-.00195	.00060	.00221	-.01245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00001**	**.00053**	**.00014**	**.00036**
Stddev	.00045	.00002	.00059	.00036	.00004
%RSD	139.82	330.70	111.15	249.36	11.013
#1	-.00065	-.00001	.00095	.00039	.00033
#2	-.00000	.00002	.00011	-.00011	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 23:30:00 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00034
Stddev	.00026
%RSD	77.184
#1	.00053
#2	.00016
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4170.4	2712.1	21527.	4081.9
Stddev	7.8	.3	176.	23.1
%RSD	.18641	.00953	.81760	.56564
#1	4175.9	2711.9	21403.	4098.2
#2	4164.9	2712.3	21652.	4065.6

Sample Name: CCVL-4195955 Acquired: 8/28/2017 23:33:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00595**	**.17968**	**.01501**	**.02237**	**.00200**
Stddev	.00060	.00854	.00098	.00024	.00000
%RSD	10.090	4.7508	6.5511	1.0742	.23228
#1	.00638	.17364	.01432	.02254	.00200
#2	.00553	.18571	.01571	.02220	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**.48332**	**.00197**	**-.0058**	**.00393**
Stddev	.00003	.00418	.00021	.0171	.00006
%RSD	1.8296	.86398	10.550	293.7	1.5006
#1	.00182	.48037	.00211	-.0179	.00397
#2	.00187	.48628	.00182	.0063	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**.01027**	**.04214**	**.60158**	**.02958**
Stddev	.00022	.00089	.00031	.01974	.00193
%RSD	5.6197	8.6210	.72830	3.2817	6.5225
#1	.00413	.01090	.04192	.58762	.02822
#2	.00381	.00965	.04236	.61554	.03095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 23:33:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19936**	**.00300**	**.00962**	**1.0607**	**.00978**
Stddev	.00609	.00005	.00005	.0118	.00011
%RSD	3.0567	1.7488	.53990	1.1130	1.1204
#1	.19505	.00304	.00958	1.0524	.00986
#2	.20367	.00297	.00965	1.0691	.00970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00946**	**.19077**	**.01894**	**.02571**	**.48494**
Stddev	.00199	.00128	.00181	.00310	.01222
%RSD	21.002	.67156	9.5797	12.058	2.5205
#1	.00806	.19167	.02023	.02790	.47629
#2	.01087	.18986	.01766	.02351	.49358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00943**	**.00496**	**.00493**	**.01771**	**.00511**
Stddev	.00003	.00014	.00032	.00104	.00027
%RSD	.35962	2.7569	6.4524	5.8784	5.2429
#1	.00941	.00487	.00515	.01844	.00492
#2	.00946	.00506	.00470	.01697	.00530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 23:33:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01070
Stddev	.00000
%RSD	.02911
#1	.01070
#2	.01071
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4155.6	2717.4	21616.	4150.0
Stddev	4.0	3.8	66.	28.2
%RSD	.09700	.14071	.30446	.67853
#1	4158.5	2720.1	21570.	4169.9
#2	4152.8	2714.7	21663.	4130.1

Sample Name: 480-123173-b-1-c ms Acquired: 8/28/2017 23:37:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04678**	**9.7678**	**.20735**	**.22814**	**.24330**
Stddev	.00064	.0304	.00165	.00049	.00015
%RSD	1.3746	.31119	.79528	.21388	.06305
#1	.04723	9.7464	.20618	.22779	.24341
#2	.04633	9.7893	.20852	.22848	.24320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20376**	**77.198**	**.20743**	**-.0107**	**.19401**
Stddev	.00033	.256	.00004	.0369	.00001
%RSD	.16214	.33183	.01835	343.4	.00413
#1	.20399	77.017	.20740	.0154	.19401
#2	.20353	77.379	.20745	-.0369	.19400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19801**	**.20895**	**9.9417**	**11.317**	**.20657**
Stddev	.00032	.00064	.0042	.013	.00070
%RSD	.15968	.30594	.04221	.11726	.33867
#1	.19823	.20850	9.9446	11.307	.20706
#2	.19778	.20941	9.9387	11.326	.20607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-c ms Acquired: 8/28/2017 23:37:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.343**	**.39085**	**.20452**	**21.033**	**.19999**
Stddev	.026	.00043	.00013	.036	.00040
%RSD	.07153	.11032	.06298	.17259	.19881
#1	36.325	.39054	.20443	21.007	.20027
#2	36.362	.39115	.20461	21.059	.19971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20779**	**23.146**	**.20440**	**.20312**	**13.948**
Stddev	.00010	.020	.00279	.00099	.088
%RSD	.04755	.08778	1.3670	.48588	.62917
#1	.20772	23.132	.20637	.20242	13.886
#2	.20786	23.161	.20242	.20382	14.010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18902**	**.27461**	**.19864**	**.20103**	**.20366**
Stddev	.00024	.00144	.00020	.00119	.00065
%RSD	.12504	.52369	.10118	.58950	.32121
#1	.18919	.27359	.19878	.20187	.20413
#2	.18886	.27562	.19849	.20020	.20320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-c ms Acquired: 8/28/2017 23:37:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20187**
Stddev	.00036
%RSD	.17822
#1	.20162
#2	.20213
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3683.1**	**2625.9**	**20741.**	**4164.3**
Stddev	.8	.5	26.	1.0
%RSD	.02152	.02074	.12679	.02434
#1	3683.7	2626.3	20759.	4165.1
#2	3682.5	2625.6	20722.	4163.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.452%	98.085%	97.874%	99.467%
Range				

Sample Name: 480-123173-b-1-d msd Acquired: 8/28/2017 23:40:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04623**	**9.9166**	**.20355**	**.22943**	**.24608**
Stddev	.00091	.0391	.00209	.00056	.00100
%RSD	1.9677	.39384	1.0289	.24413	.40689
#1	.04688	9.8890	.20207	.22903	.24679
#2	.04559	9.9442	.20504	.22982	.24537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20315**	**75.596**	**.20659**	**-.0026**	**.19351**
Stddev	.00060	.166	.00005	.0194	.00007
%RSD	.29757	.21914	.02390	744.9	.03775
#1	.20272	75.478	.20662	.0111	.19346
#2	.20357	75.713	.20655	-.0163	.19356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19460**	**.20931**	**9.9043**	**11.435**	**.20925**
Stddev	.00019	.00223	.0298	.026	.00099
%RSD	.09624	1.0638	.30131	.22758	.47185
#1	.19447	.21088	9.9254	11.453	.20855
#2	.19474	.20774	9.8832	11.417	.20995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-d msd Acquired: 8/28/2017 23:40:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.766**	**.38634**	**.20258**	**20.946**	**.19971**
Stddev	.136	.00160	.00006	.085	.00102
%RSD	.38144	.41394	.02967	.40428	.51247
#1	35.863	.38747	.20262	20.886	.19899
#2	35.670	.38521	.20254	21.006	.20043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20628**	**22.787**	**.20244**	**.20308**	**13.795**
Stddev	.00004	.010	.00008	.00470	.018
%RSD	.01813	.04174	.03952	2.3130	.12719
#1	.20630	22.781	.20238	.20640	13.783
#2	.20625	22.794	.20250	.19976	13.807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18865**	**.27481**	**.19777**	**.20057**	**.20285**
Stddev	.00001	.00145	.00038	.00045	.00045
%RSD	.00381	.52872	.19060	.22352	.21940
#1	.18866	.27378	.19750	.20089	.20317
#2	.18865	.27584	.19804	.20025	.20254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-d msd Acquired: 8/28/2017 23:40:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20041**
Stddev	.00022
%RSD	.10874
#1	.20026
#2	.20057
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3693.3**	**2636.2**	**20816.**	**4181.2**
Stddev	2.8	1.5	41.	1.2
%RSD	.07506	.05724	.19555	.02777
#1	3695.3	2637.3	20787.	4180.4
#2	3691.3	2635.2	20844.	4182.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.700%	98.470%	98.227%	99.869%
Range				

Sample Name: 480-123173-b-2-d Acquired: 8/28/2017 23:44:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.04481**	**.00619**	**.52854**	**.03533**
Stddev	.00084	.00979	.00029	.00038	.00006
%RSD	615.87	21.851	4.7319	.07103	.16386
#1	-.00046	.05174	.00640	.52881	.03529
#2	.00073	.03789	.00598	.52828	.03537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**71.059**	**.00010**	**-.0001**	**.00033**
Stddev	.00004	.131	.00005	.0115	.00011
%RSD	28.954	.18390	46.223	19590.	33.528
#1	-.00018	70.967	.00013	.0080	.00025
#2	-.00012	71.152	.00007	-.0082	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00052**	**.64076**	**2.3731**	**.02277**
Stddev	.00035	.00067	.00188	.0570	.00064
%RSD	90.306	127.75	.29264	2.4008	2.8298
#1	-.00014	.00005	.63944	2.4134	.02231
#2	-.00064	.00100	.64209	2.3328	.02323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-2-d Acquired: 8/28/2017 23:44:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9114**	**.02615**	**.00183**	**86.067**	**.00092**
Stddev	.0019	.00000	.00008	.148	.00025
%RSD	.01877	.00260	4.4979	.17175	26.823
#1	9.9127	.02615	.00178	86.172	.00109
#2	9.9101	.02615	.00189	85.962	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**27.373**	**-.00171**	**.00192**	**5.9970**
Stddev	.00087	.054	.00183	.00037	.0294
%RSD	155.49	.19849	106.93	19.017	.48985
#1	-.00006	27.411	-.00042	.00218	5.9763
#2	.00118	27.335	-.00300	.00166	6.0178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**1.4303**	**-.00017**	**-.00200**	**-.00019**
Stddev	.00019	.0010	.00046	.00000	.00012
%RSD	77.437	.07150	264.06	.10122	64.616
#1	-.00038	1.4311	-.00050	-.00201	-.00028
#2	-.00011	1.4296	.00015	-.00200	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-2-d Acquired: 8/28/2017 23:44:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00210
Stddev	.00078
%RSD	37.149
#1	.00155
#2	.00265
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3674.7	2589.3	20384.	4115.9
Stddev	5.4	4.9	78.	9.2
%RSD	.14730	.19056	.38150	.22289
#1	3678.6	2592.8	20329.	4109.4
#2	3670.9	2585.8	20439.	4122.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.249%	96.717%	96.191%	98.310%
Range				

Sample Name: 480-123173-b-3-b Acquired: 8/28/2017 23:47:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.02194**	**.00182**	**.20853**	**.07433**
Stddev	.00059	.01104	.00065	.00012	.00039
%RSD	2643.9	50.301	35.547	.05966	.53027
#1	-.00044	.01414	.00136	.20844	.07460
#2	.00039	.02975	.00228	.20861	.07405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**37.743**	**.00025**	**.0028**	**.00003**
Stddev	.00001	.072	.00006	.0539	.00016
%RSD	7.0036	.19114	24.029	1908.	620.80
#1	-.00016	37.794	.00029	-.0353	.00014
#2	-.00018	37.692	.00021	.0409	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00142**	**-.00272**	**3.9286**	**.03913**
Stddev	.00029	.00092	.00065	.0228	.00033
%RSD	91.945	64.597	23.932	.58119	.83144
#1	-.00011	.00207	-.00318	3.9447	.03936
#2	-.00053	.00077	-.00226	3.9124	.03890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-3-b Acquired: 8/28/2017 23:47:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**105.11**	**.00322**	**.00132**	**31.134**	**.00181**
Stddev	.47	.00003	.00005	.050	.00002
%RSD	.44257	.92434	3.4256	.16084	.82955
#1	105.44	.00320	.00135	31.169	.00182
#2	104.78	.00324	.00129	31.098	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**64.108**	**-.00023**	**.00151**	**7.3112**
Stddev	.00031	.004	.00207	.00206	.0414
%RSD	22.733	.00623	911.21	136.61	.56609
#1	.00116	64.111	-.00169	.00297	7.3405
#2	.00160	64.105	.00124	.00005	7.2819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**1.9017**	**.00044**	**-.00142**	**-.00079**
Stddev	.00004	.0058	.00036	.00112	.00009
%RSD	33.904	.30345	82.415	78.819	11.792
#1	-.00015	1.9058	.00018	-.00063	-.00072
#2	-.00009	1.8976	.00069	-.00221	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-3-b Acquired: 8/28/2017 23:47:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.63677
Stddev	.00567
%RSD	.88999
#1	.64077
#2	.63276
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3665.8	2593.8	20554.	4133.5
Stddev	1.0	2.1	78.	17.9
%RSD	.02833	.08066	.37954	.43275
#1	3666.5	2595.3	20499.	4120.9
#2	3665.0	2592.3	20610.	4146.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.031%	96.884%	96.995%	98.730%
Range				

Sample Name: 480-123173-b-4-b Acquired: 8/28/2017 23:51:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.02982**	**.00200**	**.06036**	**.11149**
Stddev	.00073	.00214	.00169	.00017	.00010
%RSD	236.82	7.1650	84.342	.28724	.08982
#1	-.00021	.03133	.00081	.06024	.11142
#2	.00083	.02831	.00319	.06048	.11156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**55.381**	**.00010**	**-.0161**	**-.00021**
Stddev	.00003	.081	.00013	.0134	.00010
%RSD	18.115	.14565	125.05	83.63	46.804
#1	-.00016	55.324	.00020	-.0256	-.00028
#2	-.00013	55.438	.00001	-.0066	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00083**	**.65663**	**1.1654**	**.00251**
Stddev	.00002	.00042	.00671	.0250	.00030
%RSD	2.9030	50.850	1.0216	2.1499	12.039
#1	-.00055	-.00053	.66137	1.1477	.00230
#2	-.00057	-.00112	.65188	1.1831	.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-4-b Acquired: 8/28/2017 23:51:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.102**	**.04782**	**.00197**	**10.642**	**.00059**
Stddev	.018	.00014	.00023	.006	.00013
%RSD	.09159	.28572	11.801	.05218	21.231
#1	20.089	.04772	.00180	10.646	.00068
#2	20.115	.04791	.00213	10.638	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**10.261**	**.00142**	**.00002**	**6.8125**
Stddev	.00034	.070	.00232	.00187	.0051
%RSD	54.270	.68594	164.14	9891.8	.07510
#1	.00087	10.211	-.00023	.00134	6.8089
#2	.00039	10.311	.00306	-.00130	6.8161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.53454**	**-.00000**	**-.00009**	**.00008**
Stddev	.00009	.00118	.00021	.00044	.00003
%RSD	19.496	.22041	5467.2	503.30	44.361
#1	-.00053	.53370	-.00015	-.00040	.00010
#2	-.00040	.53537	.00014	.00023	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-4-b Acquired: 8/28/2017 23:51:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00236
Stddev	.00044
%RSD	18.760
#1	.00205
#2	.00267
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3825.7	2638.2	20881.	4119.4
Stddev	34.4	22.3	27.	1.5
%RSD	.90044	.84695	.12831	.03650
#1	3850.0	2654.0	20862.	4118.3
#2	3801.3	2622.4	20900.	4120.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.914%	98.545%	98.538%	98.393%
Range				

Sample Name: 480-123173-b-5-b Acquired: 8/28/2017 23:54:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.01119**	**.00662**	**.04385**	**.14610**
Stddev	.00041	.00198	.00097	.00018	.00033
%RSD	42.864	17.734	14.646	.41174	.22644
#1	.00125	.00979	.00731	.04372	.14587
#2	.00067	.01259	.00594	.04397	.14633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**59.904**	**.00011**	**.0163**	**-.00011**
Stddev	.00002	.137	.00010	.0356	.00007
%RSD	15.834	.22874	86.464	218.5	67.144
#1	-.00011	59.807	.00004	-.0089	-.00006
#2	-.00014	60.001	.00018	.0414	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.00035**	**.42101**	**1.5116**	**.00374**
Stddev	.00042	.00041	.00074	.0231	.00015
%RSD	51.954	115.31	.17573	1.5289	3.8986
#1	-.00110	.00064	.42049	1.4953	.00384
#2	-.00051	.00007	.42154	1.5280	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-5-b Acquired: 8/28/2017 23:54:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.025**	**.01518**	**.00132**	**11.376**	**-.00001**
Stddev	.063	.00003	.00014	.050	.00022
%RSD	.23177	.21809	10.406	.44127	1788.1
#1	26.980	.01515	.00141	11.341	.00014
#2	27.069	.01520	.00122	11.412	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**17.135**	**-.00047**	**.00308**	**6.4253**
Stddev	.00011	.024	.00139	.00336	.0354
%RSD	11.950	.14046	293.61	109.06	.55139
#1	.00088	17.118	.00051	.00071	6.4003
#2	.00104	17.152	-.00146	.00546	6.4504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.45782**	**-.00002**	**-.00167**	**-.00002**
Stddev	.00005	.00148	.00019	.00237	.00020
%RSD	24.198	.32406	1117.5	141.68	870.89
#1	-.00025	.45677	.00012	.00000	.00012
#2	-.00018	.45887	-.00015	-.00335	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-5-b Acquired: 8/28/2017 23:54:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02162
Stddev	.00051
%RSD	2.3677
#1	.02126
#2	.02199
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3810.5	2626.5	20891.	4099.8
Stddev	9.6	3.9	8.	2.7
%RSD	.25310	.15007	.03726	.06699
#1	3803.7	2623.7	20886.	4097.9
#2	3817.3	2629.3	20897.	4101.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.547%	98.107%	98.585%	97.926%
Range				

Sample Name: 480-123173-b-6-b Acquired: 8/28/2017 23:58:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.01751**	**.00398**	**.08434**	**.01646**
Stddev	.00008	.00884	.00079	.00005	.00000
%RSD	36.048	50.462	19.958	.05868	.02895
#1	-.00028	.02376	.00342	.08437	.01646
#2	-.00016	.01126	.00454	.08430	.01645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**139.10**	**.00027**	**.0196**	**.00096**
Stddev	.00010	.68	.00018	.0106	.00005
%RSD	48.307	.48712	67.727	53.79	5.3614
#1	-.00014	139.58	.00039	.0271	.00100
#2	-.00028	138.62	.00014	.0122	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00236**	**.02487**	**3.1108**	**.00652**
Stddev	.00116	.00075	.00042	.0515	.00130
%RSD	377.58	31.810	1.6880	1.6549	19.942
#1	-.00113	.00183	.02457	3.1472	.00560
#2	.00051	.00289	.02517	3.0744	.00744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-6-b Acquired: 8/28/2017 23:58:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.787**	**.06003**	**.00258**	**40.999**	**.00791**
Stddev	.202	.00008	.00017	.184	.00015
%RSD	.34995	.13434	6.5335	.44775	1.8473
#1	57.930	.06009	.00270	41.129	.00801
#2	57.644	.05997	.00246	40.869	.00780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**65.015**	**.00069**	**.00190**	**6.7363**
Stddev	.00027	.041	.00208	.00156	.0193
%RSD	13.247	.06381	301.48	82.096	.28671
#1	.00225	65.044	.00216	.00080	6.7500
#2	.00186	64.985	-.00078	.00301	6.7226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**1.2106**	**-.00054**	**-.00189**	**.00093**
Stddev	.00011	.0056	.00062	.00088	.00038
%RSD	41.891	.46026	114.86	46.576	41.230
#1	-.00018	1.2145	-.00010	-.00127	.00119
#2	-.00033	1.2066	-.00097	-.00251	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-6-b Acquired: 8/28/2017 23:58:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00696**
Stddev	.00026
%RSD	3.8027
#1	.00714
#2	.00677
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3581.0**	**2545.1**	**20227.**	**4126.9**
Stddev	.6	4.2	109.	22.3
%RSD	.01767	.16574	.53808	.54016
#1	3581.5	2542.1	20150.	4111.2
#2	3580.6	2548.1	20304.	4142.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.972%	95.066%	95.451%	98.573%
Range				

Sample Name: 480-123173-b-7-b Acquired: 8/29/2017 0:02:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.03716**	**-.00011**	**.03011**	**.09115**
Stddev	.00038	.00056	.00095	.00059	.00040
%RSD	88.598	1.5031	883.09	1.9487	.43611
#1	.00070	.03677	-.00078	.03052	.09086
#2	.00016	.03756	.00056	.02969	.09143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**97.498**	**.00019**	**.0245**	**-.00008**
Stddev	.00003	.113	.00009	.0191	.00000
%RSD	18.636	.11589	47.195	77.78	1.7550
#1	-.00014	97.578	.00013	.0110	-.00008
#2	-.00018	97.418	.00025	.0380	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00068**	**.00353**	**1.4200**	**-.00240**
Stddev	.00034	.00056	.00105	.0165	.00014
%RSD	388.85	81.555	29.785	1.1627	5.6976
#1	.00015	.00029	.00279	1.4083	-.00231
#2	-.00033	.00108	.00428	1.4317	-.00250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-7-b Acquired: 8/29/2017 0:02:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.575**	**.00576**	**.00017**	**4.7834**	**.00038**
Stddev	.140	.00007	.00017	.0182	.00008
%RSD	.49015	1.2541	104.86	.38124	20.941
#1	28.476	.00571	.00029	4.7963	.00032
#2	28.674	.00581	.00004	4.7705	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**14.393**	**.00040**	**.00285**	**4.9078**
Stddev	.00036	.005	.00100	.00000	.0096
%RSD	39.297	.03578	247.80	.08929	.19485
#1	-.00117	14.389	.00111	.00286	4.9146
#2	-.00066	14.397	-.00030	.00285	4.9011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.17290**	**.00031**	**-.00151**	**.00009**
Stddev	.00035	.00021	.00011	.00030	.00010
%RSD	186.67	.11925	35.111	19.703	107.33
#1	.00006	.17276	.00023	-.00130	.00016
#2	-.00044	.17305	.00039	-.00172	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-7-b Acquired: 8/29/2017 0:02:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00246**
Stddev	.00014
%RSD	5.6097
#1	.00255
#2	.00236
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3750.4**	**2599.8**	**20593.**	**4146.1**
Stddev	2.1	2.1	115.	10.8
%RSD	.05704	.08186	.55957	.25982
#1	3751.9	2601.3	20675.	4138.5
#2	3748.9	2598.3	20512.	4153.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.087%	97.108%	97.180%	99.032%
Range				

Sample Name: 480-123173-b-8-b Acquired: 8/29/2017 0:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.08413**	**.00018**	**.02471**	**.10547**
Stddev	.00052	.01536	.00095	.00021	.00041
%RSD	146.54	18.257	531.19	.83940	.38877
#1	.00073	.07327	-.00049	.02457	.10576
#2	-.00001	.09499	.00085	.02486	.10518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**90.685**	**.00004**	**.0077**	**-.00008**
Stddev	.00002	.221	.00004	.0129	.00015
%RSD	14.427	.24389	104.36	168.1	180.69
#1	-.00012	90.841	.00006	-.0014	-.00019
#2	-.00014	90.528	.00001	.0168	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00041**	**.00695**	**1.4304**	**-.00073**
Stddev	.00002	.00026	.00094	.0289	.00094
%RSD	4.3232	64.723	13.543	2.0224	128.84
#1	-.00054	.00022	.00629	1.4099	-.00006
#2	-.00058	.00059	.00762	1.4508	-.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-8-b Acquired: 8/29/2017 0:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.820**	**.00195**	**.00001**	**3.7524**	**.00028**
Stddev	.163	.00011	.00017	.0138	.00005
%RSD	.58758	5.7478	2240.2	.36916	17.424
#1	27.935	.00203	.00013	3.7622	.00031
#2	27.704	.00187	-.00011	3.7426	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**10.002**	**-.00060**	**.00263**	**4.5945**
Stddev	.00093	.021	.00011	.00149	.0300
%RSD	303660.	.21456	18.661	56.593	.65285
#1	.00066	9.9864	-.00052	.00158	4.5733
#2	-.00066	10.017	-.00068	.00368	4.6157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.18507**	**-.00010**	**.00027**	**-.00051**
Stddev	.00028	.00005	.00004	.00007	.00020
%RSD	341.09	.02909	41.550	26.853	39.094
#1	.00028	.18511	-.00013	.00032	-.00065
#2	-.00012	.18504	-.00007	.00022	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-8-b Acquired: 8/29/2017 0:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00361
Stddev	.00014
%RSD	3.9229
#1	.00351
#2	.00371
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3771.6	2616.8	20703.	4122.0
Stddev	1.9	.8	106.	3.7
%RSD	.05078	.02902	.51378	.09071
#1	3770.3	2617.3	20628.	4119.4
#2	3773.0	2616.2	20779.	4124.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.602%	97.743%	97.698%	98.457%
Range				

Sample Name: CCV-4198708 Acquired: 8/29/2017 0:09:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49626**	**23.904**	**.50143**	**.51108**	**.49904**
Stddev	.00479	.292	.00077	.00040	.00838
%RSD	.96606	1.2206	.15301	.07877	1.6793
#1	.49965	24.110	.50089	.51136	.50497
#2	.49287	23.698	.50197	.51079	.49312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50406**	**24.481**	**.50624**	**-.0109**	**.49477**
Stddev	.00679	.290	.00037	.0305	.00052
%RSD	1.3473	1.1830	.07237	280.2	.10465
#1	.50886	24.686	.50650	.0107	.49513
#2	.49925	24.276	.50598	-.0324	.49440
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49785**	**.51707**	**23.732**	**25.950**	**.51737**
Stddev	.00334	.00187	.221	.383	.00766
%RSD	.67142	.36177	.93059	1.4748	1.4807
#1	.50021	.51839	23.889	26.220	.52279
#2	.49549	.51575	23.576	25.679	.51195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 0:09:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.052**	**.51485**	**.49735**	**25.652**	**.50405**
Stddev	.141	.00405	.00130	.329	.00044
%RSD	.56399	.78704	.26085	1.2814	.08639
#1	25.152	.51771	.49643	25.884	.50435
#2	24.953	.51198	.49827	25.419	.50374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49613**	**25.512**	**.50484**	**.49799**	**23.703**
Stddev	.00001	.011	.00257	.00370	.256
%RSD	.00275	.04189	.50990	.74309	1.0803
#1	.49612	25.519	.50302	.50061	23.884
#2	.49614	25.504	.50666	.49538	23.522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51587**	**.49785**	**.49338**	**.50014**	**.49710**
Stddev	.00098	.00616	.00464	.00290	.00063
%RSD	.19032	1.2379	.93973	.58056	.12650
#1	.51518	.50221	.49665	.50220	.49754
#2	.51657	.49349	.49010	.49809	.49665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 0:09:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50086**
Stddev	.00531
%RSD	1.0603
#1	.50461
#2	.49710
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3702.8**	**2627.0**	**20743.**	**4087.1**
Stddev	3.4	3.5	167.	55.6
%RSD	.09266	.13204	.80624	1.3611
#1	3705.2	2629.4	20625.	4047.7
#2	3700.4	2624.5	20861.	4126.4

Sample Name: CCB-4204839 Acquired: 8/29/2017 0:12:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00656**	**-.00138**	**.00107**	**-.00011**
Stddev	.00023	.01880	.00219	.00035	.00000
%RSD	37.095	286.64	158.52	32.529	.47210
#1	.00045	-.00673	-.00293	.00131	-.00011
#2	.00078	.01985	.00017	.00082	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00192**	**-.00019**	**.0265**	**-.00006**
Stddev	.00008	.00002	.00002	.0135	.00005
%RSD	51.376	1.2867	10.333	50.93	76.770
#1	-.00020	-.00190	-.00017	.0169	-.00003
#2	-.00010	-.00194	-.00020	.0360	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00052**	**-.00556**	**.00564**	**-.00236**
Stddev	.00016	.00031	.00188	.01610	.00021
%RSD	42.400	59.446	33.850	285.47	8.9472
#1	.00050	-.00074	-.00689	-.00574	-.00221
#2	.00027	-.00030	-.00423	.01703	-.00251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 0:12:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00343**	**-.00006**	**-.00021**	**.02864**	**-.00028**
Stddev	.00088	.00003	.00005	.00523	.00028
%RSD	25.752	56.205	25.749	18.248	101.04
#1	-.00281	-.00008	-.00017	.03234	-.00008
#2	-.00406	-.00003	-.00025	.02494	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00172**	**-.00444**	**.00065**	**.00329**	**-.01762**
Stddev	.00066	.00380	.00111	.00485	.00680
%RSD	38.146	85.642	170.06	147.44	38.577
#1	-.00219	-.00712	.00144	.00671	-.02242
#2	-.00126	-.00175	-.00013	-.00014	-.01281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**-.00006**	**-.00018**	**-.00074**	**-.00006**
Stddev	.00056	.00002	.00024	.00065	.00061
%RSD	102.81	40.278	130.80	86.739	1047.9
#1	-.00093	-.00007	-.00001	-.00120	-.00049
#2	-.00015	-.00004	-.00036	-.00029	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 0:12:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00040**
Stddev	.00054
%RSD	134.63
#1	.00002
#2	.00079
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4162.0**	**2702.8**	**21529.**	**4110.8**
Stddev	4.1	6.0	86.	20.3
%RSD	.09788	.22077	.40148	.49266
#1	4164.9	2707.0	21591.	4096.5
#2	4159.1	2698.6	21468.	4125.1

Sample Name: CCVL-4195955 Acquired: 8/29/2017 0:16:18 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00568**	**.18227**	**.01598**	**.02072**	**.00202**
Stddev	.00020	.00947	.00006	.00011	.00000
%RSD	3.6007	5.1941	.36716	.53471	.10897
#1	.00583	.17558	.01594	.02064	.00202
#2	.00554	.18897	.01602	.02080	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.49574**	**.00195**	**.0385**	**.00372**
Stddev	.00011	.00333	.00001	.0068	.00021
%RSD	5.6831	.67133	.27670	17.62	5.6418
#1	.00196	.49809	.00195	.0434	.00387
#2	.00180	.49338	.00194	.0337	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**.01012**	**.04138**	**.53071**	**.02795**
Stddev	.00007	.00020	.00356	.02469	.00211
%RSD	1.8273	1.9386	8.6090	4.6528	7.5400
#1	.00382	.00998	.03886	.54817	.02944
#2	.00392	.01026	.04390	.51325	.02646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 0:16:18 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19748**	**.00296**	**.00963**	**1.0462**	**.00945**
Stddev	.00394	.00019	.00015	.0022	.00025
%RSD	1.9969	6.4090	1.5252	.20662	2.6588
#1	.19469	.00283	.00953	1.0477	.00963
#2	.20027	.00309	.00973	1.0447	.00927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01005**	**.19384**	**.02250**	**.02933**	**.48083**
Stddev	.00038	.00062	.00096	.00305	.00399
%RSD	3.7426	.32071	4.2768	10.391	.83018
#1	.00978	.19428	.02318	.02718	.47801
#2	.01031	.19340	.02182	.03149	.48365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00892**	**.00487**	**.00469**	**.01918**	**.00462**
Stddev	.00010	.00018	.00022	.00130	.00035
%RSD	1.1568	3.6409	4.6328	6.7521	7.5805
#1	.00900	.00500	.00484	.01827	.00487
#2	.00885	.00475	.00454	.02010	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 0:16:18 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01140
Stddev	.00006
%RSD	.55774
#1	.01144
#2	.01135
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4152.2	2716.7	21758.	4133.9
Stddev	4.7	6.2	107.	13.5
%RSD	.11265	.22686	.49225	.32542
#1	4148.8	2712.3	21834.	4124.4
#2	4155.5	2721.1	21682.	4143.4

Sample Name: 480-123173-b-9-b Acquired: 8/29/2017 0:19:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.03107**	**.00082**	**.04349**	**.11318**
Stddev	.00037	.03295	.00015	.00005	.00036
%RSD	115.02	106.04	18.930	.12145	.31378
#1	-.00059	.00777	.00093	.04346	.11343
#2	-.00006	.05438	.00071	.04353	.11293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**96.769**	**.00012**	**.0286**	**-.00011**
Stddev	.00002	.008	.00007	.0038	.00003
%RSD	10.395	.00821	57.718	13.23	24.309
#1	-.00016	96.774	.00017	.0259	-.00009
#2	-.00019	96.763	.00007	.0313	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00151**	**.20375**	**4.5986**	**.00158**
Stddev	.00026	.00050	.00560	.0841	.00005
%RSD	117.68	32.936	2.7492	1.8289	2.9699
#1	-.00040	.00186	.19979	4.6581	.00161
#2	-.00004	.00115	.20771	4.5391	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-9-b Acquired: 8/29/2017 0:19:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.096**	**.12431**	**.00014**	**7.9243**	**.00166**
Stddev	.075	.00040	.00010	.0398	.00013
%RSD	.21250	.31886	72.322	.50223	7.5704
#1	35.149	.12459	.00022	7.9525	.00157
#2	35.044	.12403	.00007	7.8962	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**16.919**	**-.00076**	**-.00095**	**8.2213**
Stddev	.00023	.021	.00164	.00058	.0154
%RSD	290.81	.12600	214.21	60.711	.18765
#1	-.00024	16.934	-.00192	-.00054	8.2104
#2	.00008	16.904	.00039	-.00136	8.2322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.35310**	**-.00031**	**-.00144**	**.00004**
Stddev	.00031	.00059	.00026	.00069	.00018
%RSD	67.243	.16568	82.479	48.066	480.21
#1	.00025	.35352	-.00013	-.00193	.00017
#2	.00069	.35269	-.00049	-.00095	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-9-b Acquired: 8/29/2017 0:19:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00617
Stddev	.00038
%RSD	6.1246
#1	.00644
#2	.00590
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3735.7	2606.1	20620.	4134.2
Stddev	1.8	1.1	41.	6.6
%RSD	.04934	.04255	.19871	.15863
#1	3737.0	2606.8	20591.	4129.6
#2	3734.4	2605.3	20649.	4138.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.730%	97.343%	97.305%	98.748%
Range				

Sample Name: 480-123173-b-10-b Acquired: 8/29/2017 0:23:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.04185**	**.00449**	**.11582**	**.06966**
Stddev	.00025	.00138	.00011	.00001	.00031
%RSD	35.217	3.3087	2.3644	.01121	.45148
#1	.00053	.04087	.00441	.11581	.06943
#2	.00089	.04283	.00456	.11583	.06988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**45.449**	**.00005**	**.0147**	**.00033**
Stddev	.00008	.086	.00002	.0005	.00015
%RSD	50.127	.18863	43.220	3.527	43.426
#1	-.00010	45.388	.00003	.0151	.00044
#2	-.00022	45.509	.00006	.0144	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.00043**	**.00203**	**1.6628**	**.00341**
Stddev	.00004	.00009	.00077	.0021	.00017
%RSD	4.4928	20.047	37.996	.12337	4.9867
#1	-.00078	.00037	.00257	1.6614	.00329
#2	-.00083	.00049	.00148	1.6643	.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-10-b Acquired: 8/29/2017 0:23:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.392**	**.00932**	**.00670**	**15.005**	**.00095**
Stddev	.026	.00003	.00001	.050	.00040
%RSD	.14324	.35699	.09232	.33529	41.880
#1	18.373	.00929	.00671	14.969	.00067
#2	18.411	.00934	.00670	15.040	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**8.6569**	**-.00087**	**.00281**	**5.7243**
Stddev	.00096	.0071	.00019	.00039	.0231
%RSD	309.20	.08156	21.383	13.882	.40288
#1	-.00037	8.6619	-.00101	.00254	5.7080
#2	.00099	8.6519	-.00074	.00309	5.7406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.63815**	**.00028**	**-.00082**	**.00010**
Stddev	.00006	.00337	.00021	.00014	.00006
%RSD	14.096	.52867	74.071	17.473	59.657
#1	-.00041	.63577	.00043	-.00072	.00006
#2	-.00050	.64054	.00013	-.00092	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-10-b Acquired: 8/29/2017 0:23:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00249
Stddev	.00026
%RSD	10.398
#1	.00231
#2	.00267
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3855.6	2648.4	20951.	4167.1
Stddev	.4	1.6	80.	8.3
%RSD	.01073	.06123	.38075	.19799
#1	3855.9	2649.5	21007.	4172.9
#2	3855.4	2647.2	20895.	4161.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.643%	98.922%	98.866%	99.533%
Range				

Sample Name: 480-123173-c-11-b Acquired: 8/29/2017 0:27:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.02239**	**.00013**	**.00318**	**-.00003**
Stddev	.00012	.00697	.00131	.00011	.00003
%RSD	77.045	31.138	1006.5	3.3851	100.23
#1	-.00024	.01746	-.00080	.00326	-.00005
#2	-.00007	.02733	.00106	.00310	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.06079**	**-.00021**	**-.0089**	**-.00003**
Stddev	.00012	.00419	.00004	.0046	.00008
%RSD	70.124	6.8918	17.430	52.21	276.67
#1	-.00025	.06375	-.00018	-.0122	.00003
#2	-.00009	.05783	-.00024	-.0056	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00081**	**-.00364**	**.03855**	**.00027**
Stddev	.00039	.00092	.00186	.03762	.00064
%RSD	72.089	112.90	51.093	97.588	236.17
#1	-.00027	.00146	-.00495	.06515	-.00018
#2	-.00082	.00016	-.00232	.01195	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-11-b Acquired: 8/29/2017 0:27:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**.00114**	**-.00030**	**.04074**	**.00041**
Stddev	.00201	.00004	.00015	.00652	.00012
%RSD	47.406	3.4937	51.454	16.004	30.053
#1	.00566	.00111	-.00041	.03613	.00050
#2	.00282	.00117	-.00019	.04535	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00022**	**.00151**	**.00335**	**-.00114**
Stddev	.00017	.00009	.00089	.00080	.00346
%RSD	2535.3	39.712	58.681	23.992	302.57
#1	.00012	-.00016	.00214	.00392	.00130
#2	-.00013	-.00029	.00088	.00279	-.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00031**	**.00011**	**-.00087**	**-.00016**
Stddev	.00035	.00009	.00009	.00083	.00059
%RSD	106.17	29.916	82.146	94.755	371.07
#1	-.00008	.00025	.00017	-.00029	-.00058
#2	-.00057	.00038	.00005	-.00146	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-11-b Acquired: 8/29/2017 0:27:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00450**
Stddev	.00006
%RSD	1.2783
#1	.00454
#2	.00446
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4192.2**	**2720.7**	**21727.**	**4165.7**
Stddev	1.9	4.0	7.	9.3
%RSD	.04441	.14611	.03009	.22352
#1	4193.5	2717.9	21723.	4159.1
#2	4190.9	2723.5	21732.	4172.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.82%	101.63%	102.53%	99.499%
Range				

Sample Name: 480-123173-c-13-b Acquired: 8/29/2017 0:30:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01434**	**.01088**	**.06458**	**.07061**
Stddev	.00004	.01316	.00086	.00035	.00040
%RSD	256.87	91.791	7.9452	.54698	.56762
#1	-.00001	.00503	.01027	.06433	.07089
#2	.00004	.02364	.01150	.06483	.07032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**87.642**	**.00001**	**-.0215**	**-.00022**
Stddev	.00000	.332	.00005	.0217	.00010
%RSD	.75216	.37859	453.91	100.7	45.252
#1	-.00020	87.877	-.00002	-.0062	-.00015
#2	-.00020	87.407	.00004	-.0368	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00114**	**.00006**	**1.4350**	**1.3344**	**.00212**
Stddev	.00061	.00088	.0022	.0166	.00110
%RSD	53.456	1489.7	.15634	1.2407	51.828
#1	-.00071	.00068	1.4366	1.3227	.00134
#2	-.00157	-.00057	1.4334	1.3461	.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-13-b Acquired: 8/29/2017 0:30:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.690**	**.03494**	**.00242**	**14.566**	**.00061**
Stddev	.077	.00016	.00018	.097	.00009
%RSD	.25199	.45451	7.3515	.66795	14.518
#1	30.745	.03505	.00229	14.634	.00054
#2	30.636	.03482	.00255	14.497	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**22.293**	**-.00009**	**.00199**	**7.5607**
Stddev	.00097	.018	.00145	.00215	.0427
%RSD	83.747	.07961	1704.0	107.73	.56505
#1	.00185	22.305	-.00111	.00351	7.5909
#2	.00047	22.280	.00094	.00047	7.5305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.33088**	**-.00014**	**-.00075**	**-.00014**
Stddev	.00073	.00274	.00046	.00050	.00004
%RSD	132.61	.82766	317.46	66.584	28.384
#1	-.00003	.33282	.00018	-.00039	-.00011
#2	-.00107	.32895	-.00047	-.00110	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-13-b Acquired: 8/29/2017 0:30:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00421
Stddev	.00001
%RSD	.21242
#1	.00420
#2	.00422
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3738.5	2599.7	20506.	4087.8
Stddev	8.3	5.0	65.	13.5
%RSD	.22284	.19284	.31659	.33099
#1	3732.6	2596.2	20460.	4078.2
#2	3744.4	2603.3	20552.	4097.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.797%	97.106%	96.768%	97.638%
Range				

Sample Name: 480-123173-c-14-b Acquired: 8/29/2017 0:34:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.02315**	**.01522**	**.25834**	**.15730**
Stddev	.00046	.00593	.00113	.00001	.00040
%RSD	479.59	25.611	7.4502	.00411	.25488
#1	-.00023	.01896	.01442	.25833	.15702
#2	.00042	.02735	.01603	.25834	.15758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**32.131**	**-.00003**	**.0218**	**-.00005**
Stddev	.00009	.011	.00004	.0173	.00003
%RSD	61.759	.03555	115.47	79.39	59.306
#1	-.00021	32.139	-.00001	.0096	-.00003
#2	-.00008	32.122	-.00006	.0341	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00025**	**.24810**	**1.9145**	**.00536**
Stddev	.00044	.00092	.00068	.0124	.00058
%RSD	122.13	370.85	.27277	.64839	10.778
#1	-.00005	.00089	.24762	1.9232	.00577
#2	-.00067	-.00040	.24858	1.9057	.00495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-14-b Acquired: 8/29/2017 0:34:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.386**	**.01650**	**.01246**	**52.812**	**-.00008**
Stddev	.022	.00009	.00025	.233	.00013
%RSD	.15158	.55829	2.0034	.44093	159.45
#1	14.371	.01643	.01264	52.976	.00001
#2	14.402	.01656	.01229	52.647	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.14038**	**.00114**	**.00058**	**6.1374**
Stddev	.00078	.00135	.00077	.00265	.0027
%RSD	88.045	.96168	67.556	460.50	.04412
#1	.00144	.14133	.00169	-.00130	6.1393
#2	.00034	.13942	.00060	.00245	6.1355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**1.3393**	**-.00010**	**.00073**	**.00009**
Stddev	.00021	.0012	.00035	.00049	.00016
%RSD	42.462	.09058	343.07	67.016	177.22
#1	-.00035	1.3384	-.00035	.00107	-.00002
#2	-.00064	1.3401	.00015	.00038	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-14-b Acquired: 8/29/2017 0:34:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00434**
Stddev	.00079
%RSD	18.230
#1	.00490
#2	.00378
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3781.8**	**2633.9**	**20876.**	**4133.0**
Stddev	5.4	5.3	5.	9.1
%RSD	.14205	.20039	.02341	.22089
#1	3785.6	2637.6	20873.	4139.4
#2	3778.0	2630.2	20880.	4126.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.848%	98.383%	98.515%	98.717%
Range				

Sample Name: 190-14267-d-1-c Acquired: 8/29/2017 0:37:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.02124**	**.00930**	**.13407**	**.11852**
Stddev	.00007	.01010	.00112	.00050	.00015
%RSD	37.455	47.547	12.048	.37107	.12732
#1	-.00014	.02838	.00850	.13442	.11842
#2	-.00023	.01410	.01009	.13371	.11863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**42.774**	**.00034**	**-.0043**	**-.00012**
Stddev	.00009	.072	.00010	.0234	.00014
%RSD	46.343	.16780	29.440	548.9	116.33
#1	-.00013	42.825	.00041	-.0208	-.00021
#2	-.00026	42.723	.00027	.0123	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.00293**	**-.00216**	**2.0164**	**.00774**
Stddev	.00027	.00140	.00019	.0369	.00062
%RSD	26.290	47.711	8.9316	1.8322	8.0122
#1	-.00082	.00194	-.00202	2.0426	.00730
#2	-.00120	.00392	-.00230	1.9903	.00818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-d-1-c Acquired: 8/29/2017 0:37:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.412**	**.03809**	**.01804**	**20.694**	**.00040**
Stddev	.056	.00001	.00006	.046	.00030
%RSD	.23820	.03280	.32821	.22108	73.247
#1	23.373	.03808	.01800	20.726	.00020
#2	23.452	.03810	.01808	20.661	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00312**	**4.2064**	**.00090**	**.00189**	**6.7641**
Stddev	.00055	.0001	.00059	.00138	.0090
%RSD	17.478	.00299	66.251	72.829	.13311
#1	.00351	4.2065	.00048	.00092	6.7704
#2	.00274	4.2063	.00132	.00286	6.7577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.43443**	**.00003**	**.00030**	**-.00044**
Stddev	.00049	.00028	.00025	.00103	.00028
%RSD	1855.4	.06554	731.77	348.15	62.383
#1	.00037	.43463	-.00014	.00103	-.00025
#2	-.00032	.43422	.00021	-.00043	-.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-d-1-c Acquired: 8/29/2017 0:37:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.81302
Stddev	.00020
%RSD	.02509
#1	.81317
#2	.81288
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3820.1	2643.6	20914.	4164.5
Stddev	.8	1.8	48.	24.1
%RSD	.01977	.06712	.22820	.57800
#1	3820.7	2644.8	20880.	4147.5
#2	3819.6	2642.3	20948.	4181.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.780%	98.744%	98.692%	99.471%
Range				

Sample Name: 190-14267-c-2-c Acquired: 8/29/2017 0:41:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00060**	**.03683**	**.07448**	**.13960**
Stddev	.00113	.00750	.00258	.00045	.00014
%RSD	2204.7	1240.0	7.0080	.60023	.09684
#1	.00085	-.00591	.03866	.07480	.13970
#2	-.00075	.00470	.03501	.07417	.13950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**67.431**	**.00014**	**-.0179**	**-.00036**
Stddev	.00009	.205	.00005	.0023	.00020
%RSD	38.994	.30421	35.553	12.75	54.723
#1	-.00016	67.286	.00017	-.0195	-.00050
#2	-.00028	67.576	.00010	-.0163	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00228**	**.94476**	**1.4723**	**.00868**
Stddev	.00075	.00027	.00048	.0513	.00102
%RSD	1478.0	11.725	.05085	3.4832	11.765
#1	-.00058	.00247	.94442	1.4361	.00940
#2	.00048	.00209	.94510	1.5086	.00796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-c-2-c Acquired: 8/29/2017 0:41:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.354**	**.01211**	**.01734**	**10.797**	**-.00011**
Stddev	.060	.00006	.00002	.003	.00001
%RSD	.17562	.47421	.08672	.02351	11.627
#1	34.396	.01215	.01735	10.799	-.00012
#2	34.311	.01207	.01733	10.796	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**14.139**	**.00013**	**.00478**	**7.5305**
Stddev	.00019	.034	.00138	.00162	.0245
%RSD	15.485	.23844	1029.6	33.909	.32494
#1	.00108	14.115	-.00084	.00592	7.5132
#2	.00135	14.163	.00111	.00363	7.5478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.72015**	**-.00002**	**-.00055**	**-.00052**
Stddev	.00032	.00214	.00021	.00040	.00046
%RSD	145.96	.29767	1289.0	72.888	89.307
#1	-.00001	.71864	-.00016	-.00027	-.00019
#2	.00044	.72167	.00013	-.00084	-.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-c-2-c Acquired: 8/29/2017 0:41:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21195**
Stddev	.00122
%RSD	.57756
#1	.21108
#2	.21281
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3782.3**	**2623.8**	**20793.**	**4133.6**
Stddev	5.6	3.4	55.	4.6
%RSD	.14695	.12987	.26407	.11246
#1	3778.3	2621.4	20831.	4136.8
#2	3786.2	2626.2	20754.	4130.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.860%	98.004%	98.119%	98.732%
Range				

Sample Name: 190-14267-c-3-c Acquired: 8/29/2017 0:45:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.02097**	**.00097**	**.56118**	**.29796**
Stddev	.00071	.00562	.00300	.00009	.00080
%RSD	176.96	26.788	308.22	.01648	.26895
#1	.00091	.02495	-.00115	.56124	.29853
#2	-.00010	.01700	.00310	.56111	.29739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**98.540**	**.00016**	**.0110**	**-.00032**
Stddev	.00006	.192	.00009	.0036	.00019
%RSD	22.733	.19477	54.920	32.36	59.315
#1	-.00030	98.405	.00010	.0085	-.00046
#2	-.00021	98.676	.00023	.0135	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00133**	**4.0805**	**2.2208**	**.01041**
Stddev	.00015	.00061	.0151	.0336	.00149
%RSD	210.97	45.766	.36898	1.5114	14.323
#1	-.00017	.00176	4.0699	2.2445	.00936
#2	.00003	.00090	4.0912	2.1971	.01147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-c-3-c Acquired: 8/29/2017 0:45:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.065**	**.03030**	**.01340**	**84.710**	**.01356**
Stddev	.102	.00009	.00008	.053	.00011
%RSD	.23739	.30302	.61645	.06220	.78319
#1	43.137	.03037	.01345	84.672	.01349
#2	42.993	.03024	.01334	84.747	.01364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**25.224**	**.00038**	**-.00061**	**8.0844**
Stddev	.00020	.006	.00000	.00198	.0303
%RSD	19.246	.02516	1.1060	322.91	.37530
#1	.00117	25.229	.00038	-.00201	8.0629
#2	.00089	25.220	.00039	.00079	8.1059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**1.1044**	**-.00009**	**.00044**	**-.00029**
Stddev	.00003	.0008	.00036	.00050	.00006
%RSD	243.14	.07392	412.02	114.45	21.407
#1	-.00001	1.1050	-.00034	.00080	-.00034
#2	.00003	1.1038	.00017	.00008	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-c-3-c Acquired: 8/29/2017 0:45:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.06220**
Stddev	.00057
%RSD	.90964
#1	.06180
#2	.06260
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3595.7**	**2574.7**	**20377.**	**4148.6**
Stddev	5.0	5.2	11.	4.2
%RSD	.13878	.20309	.05601	.10228
#1	3592.2	2571.0	20369.	4151.6
#2	3599.2	2578.4	20385.	4145.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.329%	96.173%	96.158%	99.091%
Range				

Sample Name: 480-123211-a-1-a Acquired: 8/29/2017 0:48:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.29696**	**.00353**	**.06412**	**.04773**
Stddev	.00027	.00816	.00199	.00036	.00015
%RSD	30.465	2.7490	56.473	.55498	.30617
#1	-.00109	.29119	.00494	.06437	.04763
#2	-.00070	.30274	.00212	.06387	.04784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	F **932.12**	**.00053**	**.0267**	**.00245**
Stddev	.00002	1.19	.00002	.0136	.00015
%RSD	5.7397	.12730	3.5254	50.99	6.0012
#1	-.00044	932.96	.00052	.0363	.00235
#2	-.00040	931.28	.00055	.0171	.00256
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12217**	**.10301**	**1.3358**	**28.763**	**-.00461**
Stddev	.00000	.00008	.0115	.315	.00172
%RSD	.00073	.08169	.85835	1.0958	37.244
#1	.12217	.10307	1.3277	28.540	-.00582
#2	.12217	.10295	1.3439	28.986	-.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123211-a-1-a Acquired: 8/29/2017 0:48:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**141.53**	**.06272**	**.00170**	**1160.0**	**.27314**
Stddev	.39	.00045	.00033	8.4	.00037
%RSD	.27895	.71616	19.677	.72631	.13407
#1	141.25	.06241	.00193	1154.1	.27339
#2	141.81	.06304	.00146	1166.0	.27288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00330**	F **1599.6**	**.00161**	**.00863**	**5.6768**
Stddev	.00102	.7	.00048	.00186	.0431
%RSD	30.898	.04091	29.516	21.594	.75939
#1	-.00402	1599.1	.00195	.00994	5.6463
#2	-.00258	1600.1	.00128	.00731	5.7073
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**3.4736**	**.01096**	**-.00201**	**-.00031**
Stddev	.00025	.0383	.00004	.00049	.00039
%RSD	413.84	1.1015	.35678	24.642	127.03
#1	.00012	3.4465	.01094	-.00236	-.00003
#2	-.00024	3.5006	.01099	-.00166	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123211-a-1-a Acquired: 8/29/2017 0:48:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.05423**
Stddev	.00055
%RSD	1.0136
#1	.05384
#2	.05462
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2818.2**	**2288.6**	**17749.**	**3903.3**
Stddev	1.4	1.7	53.	24.3
%RSD	.05072	.07342	.29641	.62213
#1	2817.2	2287.4	17786.	3920.5
#2	2819.2	2289.8	17712.	3886.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.445%	85.483%	83.757%	93.232%
Range				

Run File: i2082817a

Instrument: ICAP2

Analyst: jrk JR 8/29/17

Data Review: 8/29/17

Spikes Ids: 4027863(W1), 3903387(W2), 4076679(Sn), 4076667(Ag), 3900427(Si), 3885452(TCLP)

Pipette IDs: 06/16/17-(1-9, 11)
Internal Standard: 4172819

Seq#	Run File ID	Sample ID	Date / Time	Type
1	i2082817a	ICIS-4204839	08/28/17 11:02 AM	Standard
2	i2082817a	IC-4195955	08/28/17 11:05 AM	Standard
3	i2082817a	IC-4207542	08/28/17 11:09 AM	Standard
4	i2082817a	IC-4207541	08/28/17 11:13 AM	Standard
5	i2082817a	ICV-4204840	08/28/17 11:16 AM	QC
6	i2082817a	ICB-4204839	08/28/17 11:19 AM	QC
7	i2082817a	ICVL-4195955	08/28/17 11:23 AM	QC
8	i2082817a	ICSA-4090634	08/28/17 11:27 AM	QC
9	i2082817a	ICSAB-4167458	08/28/17 11:30 AM	QC
10	i2082817a	ICEX1	08/28/17 11:34 AM	Unknown
11	i2082817a	ICEX2	08/28/17 11:38 AM	Unknown
12	i2082817a	ICEX3	08/28/17 11:41 AM	Unknown
13	i2082817a	ICEX4	08/28/17 11:49 AM	Unknown
14	i2082817a	ICEX5	08/28/17 11:52 AM	Unknown
15	i2082817a	CCV-4198708	08/28/17 11:56 AM	QC
16	i2082817a	CCB-4204839	08/28/17 11:59 AM	QC
17	i2082817a	CCVL-4195955	08/28/17 12:03 PM	QC
18	i2082817a	MB 480-373710/1-A	08/28/17 12:07 PM	Unknown
19	i2082817a	123104-A-1-A@5	08/28/17 12:10 PM	Unknown
20	i2082817a	123104-A-1-Asd@25	08/28/17 12:14 PM	Unknown
21	i2082817a	123104-A-1-Apds@5	08/28/17 12:17 PM	Unknown
22	i2082817a	123104-A-1-B MS@5	08/28/17 12:21 PM	Unknown
23	i2082817a	123104-A-1-C MSD@5	08/28/17 12:25 PM	Unknown
24	i2082817a	480-123126-A-1-A@10	08/28/17 12:28 PM	Unknown
25	i2082817a	480-123126-A-2-A@10	08/28/17 12:32 PM	Unknown
26	i2082817a	480-123118-A-1-A@50	08/28/17 12:35 PM	Unknown
27	i2082817a	CCV-4198708	08/28/17 12:39 PM	QC
28	i2082817a	CCB-4204839	08/28/17 12:42 PM	QC
29	i2082817a	CCVL-4195955	08/28/17 12:46 PM	QC
30	i2082817a	LB2 480-373744/1-B	08/28/17 12:49 PM	Unknown
31	i2082817a	MB 480-373906/2-A	08/28/17 12:53 PM	Unknown
32	i2082817a	LCS 480-373906/3-A	08/28/17 12:57 PM	Unknown
33	i2082817a	480-123063-C-1-D	08/28/17 01:00 PM	Unknown
34	i2082817a	480-123063-C-1-Dsd@5	08/28/17 01:04 PM	Unknown
35	i2082817a	480-123063-C-1-D pds	08/28/17 01:08 PM	Unknown
36	i2082817a	480-123063-C-1-E MS	08/28/17 01:11 PM	Unknown
37	i2082817a	480-123063-C-1-F MSD	08/28/17 01:15 PM	Unknown
38	i2082817a	blank	08/28/17 01:18 PM	Unknown
39	i2082817a	CCV-4198708	08/28/17 01:22 PM	QC
40	i2082817a	CCB-4204839	08/28/17 01:26 PM	QC
41	i2082817a	CCVL-4195955	08/28/17 01:29 PM	QC
42	i2082817a	LB 480-373730/1-B	08/28/17 01:33 PM	Unknown

43	i2082817a	MB 480-373905/2-A	08/28/17 01:37 PM Unknown
44	i2082817a	LCS 480-373905/3-A	08/28/17 01:40 PM Unknown
45	i2082817a	480-123063-F-2-C	08/28/17 01:44 PM Unknown
46	i2082817a	480-123063-F-2-Csd@5	08/28/17 01:48 PM Unknown
47	i2082817a	480-123063-F-2-C pds	08/28/17 01:51 PM Unknown
48	i2082817a	480-123063-F-2-D MS	08/28/17 01:55 PM Unknown
49	i2082817a	480-123063-F-2-E MSD	08/28/17 01:59 PM Unknown
50	i2082817a	480-123063-G-3-C	08/28/17 02:02 PM Unknown
51	i2082817a	CCV-4198708	08/28/17 02:06 PM QC
52	i2082817a	CCB-4204839	08/28/17 02:10 PM QC
53	i2082817a	CCVL-4195955	08/28/17 02:13 PM QC
54	i2082817a	480-123128-A-1-C	08/28/17 02:17 PM Unknown
55	i2082817a	480-122829-2 tot	08/28/17 02:21 PM Unknown
56	i2082817a	480-123104-A-1-ASD@5	08/28/17 02:25 PM Unknown
57	i2082817a	Filter blank 373301	08/28/17 02:29 PM Unknown
58	i2082817a	480-123023-F-2-A	08/28/17 02:32 PM Unknown
59	i2082817a	BLANK	08/28/17 02:36 PM Unknown
60	i2082817a	MB 480-374152/1-A	08/28/17 02:39 PM Unknown
61	i2082817a	LCS 480-374152/2-A	08/28/17 02:43 PM Unknown
62	i2082817a	LCSD 480-374152/3-A	08/28/17 02:46 PM Unknown
63	i2082817a	CCV-4198708	08/28/17 02:50 PM QC
64	i2082817a	CCB-4204839	08/28/17 02:53 PM QC
65	i2082817a	CCVL-4195955	08/28/17 02:57 PM QC
66	i2082817a	480-122778-E-19-D	08/28/17 03:01 PM Unknown
67	i2082817a	480-122778-E-18-D	08/28/17 03:04 PM Unknown
68	i2082817a	480-122703-D-2-B	08/28/17 03:08 PM Unknown
69	i2082817a	480-122703-D-6-B	08/28/17 03:11 PM Unknown
70	i2082817a	480-122527-B-5-C	08/28/17 03:15 PM Unknown
71	i2082817a	480-123261-C-1-A	08/28/17 03:19 PM Unknown
72	i2082817a	480-123261-C-2-A	08/28/17 03:22 PM Unknown
73	i2082817a	480-123261-C-2-ASD@5	08/28/17 03:26 PM Unknown
74	i2082817a	480-123261-C-2-APDS	08/28/17 03:30 PM Unknown
75	i2082817a	CCV-4198708	08/28/17 03:33 PM QC
76	i2082817a	CCB-4204839	08/28/17 03:37 PM QC
77	i2082817a	CCVL-4195955	08/28/17 03:40 PM QC
78	i2082817a	480-123261-C-2-B MS	08/28/17 03:44 PM Unknown
79	i2082817a	480-123261-C-2-C MSD	08/28/17 03:47 PM Unknown
80	i2082817a	480-123261-B-3-A	08/28/17 03:51 PM Unknown
81	i2082817a	480-123261-B-4-A	08/28/17 03:55 PM Unknown
82	i2082817a	480-123256-G-4-A	08/28/17 03:58 PM Unknown
83	i2082817a	480-123260-A-6-A	08/28/17 04:02 PM Unknown
84	i2082817a	480-123224-C-1-A	08/28/17 04:05 PM Unknown
85	i2082817a	480-123224-C-2-A	08/28/17 04:09 PM Unknown
86	i2082817a	480-123274-B-1-A	08/28/17 04:13 PM Unknown
87	i2082817a	CCV-4198708	08/28/17 04:16 PM QC
88	i2082817a	CCB-4204839	08/28/17 04:20 PM QC
89	i2082817a	CCVL-4195955	08/28/17 04:23 PM QC
90	i2082817a	480-123274-B-2-A	08/28/17 04:27 PM Unknown
91	i2082817a	480-123274-B-3-A	08/28/17 04:31 PM Unknown
92	i2082817a	480-123274-B-4-A	08/28/17 04:34 PM Unknown
93	i2082817a	480-123285-D-1-A	08/28/17 04:38 PM Unknown
94	i2082817a	480-123285-D-2-A	08/28/17 04:41 PM Unknown

95	i2082817a	480-123285-D-3-A	08/28/17 04:45 PM Unknown
96	i2082817a	BLANK	08/28/17 04:49 PM Unknown
97	i2082817a	MB 480-373973/1-B	08/28/17 04:52 PM Unknown
98	i2082817a	LCS 480-373973/2-B	08/28/17 04:56 PM Unknown
99	i2082817a	CCV-4198708	08/28/17 04:59 PM QC
100	i2082817a	CCB-4204839	08/28/17 05:03 PM QC
101	i2082817a	CCVL-4195955	08/28/17 05:07 PM QC
102	i2082817a	480-123149-A-9-B	08/28/17 05:10 PM Unknown
103	i2082817a	480-123149-A-9-BSD@5	08/28/17 05:14 PM Unknown
104	i2082817a	480-123149-A-9-BPDS	08/28/17 05:17 PM Unknown
105	i2082817a	480-123149-A-9-C MS	08/28/17 05:21 PM Unknown
106	i2082817a	480-123149-A-9-D MSD	08/28/17 05:24 PM Unknown
107	i2082817a	480-123209-A-3-B	08/28/17 05:28 PM Unknown
108	i2082817a	480-123215-L-1-B	08/28/17 05:31 PM Unknown
109	i2082817a	480-123215-K-2-B	08/28/17 05:35 PM Unknown
110	i2082817a	480-123215-L-3-B	08/28/17 05:38 PM Unknown
111	i2082817a	CCV-4198708	08/28/17 05:42 PM QC
112	i2082817a	CCB-4204839	08/28/17 05:46 PM QC
113	i2082817a	CCVL-4195955	08/28/17 05:49 PM QC
114	i2082817a	480-123168-D-1-B	08/28/17 05:53 PM Unknown
115	i2082817a	480-123168-D-2-B	08/28/17 05:56 PM Unknown
116	i2082817a	480-123168-D-3-B	08/28/17 06:00 PM Unknown
117	i2082817a	BLANK	08/28/17 06:04 PM Unknown
118	i2082817a	MB 480-373973/1-C	08/28/17 06:07 PM Unknown
119	i2082817a	LCS 480-373973/2-C	08/28/17 06:11 PM Unknown
120	i2082817a	480-123220-D-1-B	08/28/17 06:15 PM Unknown
121	i2082817a	480-123220-D-1-BSD@5	08/28/17 06:18 PM Unknown
122	i2082817a	480-123220-D-1-BPDS	08/28/17 06:22 PM Unknown
123	i2082817a	CCV-4198708	08/28/17 06:25 PM QC
124	i2082817a	CCB-4204839	08/28/17 06:29 PM QC
125	i2082817a	CCVL-4195955	08/28/17 06:32 PM QC
126	i2082817a	480-123220-D-1-C MS	08/28/17 06:36 PM Unknown
127	i2082817a	480-123220-D-1-D MSD	08/28/17 06:39 PM Unknown
128	i2082817a	BLANK	08/28/17 06:43 PM Unknown
129	i2082817a	MB 480-374149/1-A	08/28/17 06:46 PM Unknown
130	i2082817a	LCS 480-374149/2-A	08/28/17 06:50 PM Unknown
131	i2082817a	LCSD 480-374149/3-A	08/28/17 06:54 PM Unknown
132	i2082817a	480-123261-D-1-A	08/28/17 06:57 PM Unknown
133	i2082817a	480-123261-D-1-Apds	08/28/17 07:01 PM Unknown
134	i2082817a	480-123261-D-1-Asd@5	08/28/17 07:04 PM Unknown
135	i2082817a	CCV-4198708	08/28/17 07:08 PM QC
136	i2082817a	CCB-4204839	08/28/17 07:11 PM QC
137	i2082817a	CCVL-4195955	08/28/17 07:15 PM QC
138	i2082817a	480-123261-D-1-B MS	08/28/17 07:19 PM Unknown
139	i2082817a	480-123261-D-1-C MSD	08/28/17 07:22 PM Unknown
140	i2082817a	480-123261-D-2-A	08/28/17 07:26 PM Unknown
141	i2082817a	480-123261-C-3-A	08/28/17 07:29 PM Unknown
142	i2082817a	480-123261-C-4-A	08/28/17 07:33 PM Unknown
143	i2082817a	190-14287-C-1-A	08/28/17 07:37 PM Unknown
144	i2082817a	190-14287-P-2-A	08/28/17 07:40 PM Unknown
145	i2082817a	190-14287-P-3-A	08/28/17 07:44 PM Unknown
146	i2082817a	190-14276-D-1-A	08/28/17 07:47 PM Unknown

147	i2082817a	CCV-4198708	08/28/17 07:51 PM QC
148	i2082817a	CCB-4204839	08/28/17 07:54 PM QC
149	i2082817a	CCVL-4195955	08/28/17 07:58 PM QC
150	i2082817a	190-14276-D-2-A	08/28/17 08:02 PM Unknown
151	i2082817a	190-14276-D-3-A	08/28/17 08:05 PM Unknown
152	i2082817a	190-14276-D-4-A	08/28/17 08:09 PM Unknown
153	i2082817a	190-14276-D-5-A	08/28/17 08:12 PM Unknown
154	i2082817a	190-14276-D-6-A	08/28/17 08:16 PM Unknown
155	i2082817a	190-14295-D-1-A	08/28/17 08:19 PM Unknown
156	i2082817a	190-14295-D-2-A	08/28/17 08:23 PM Unknown
157	i2082817a	190-14295-D-3-A	08/28/17 08:27 PM Unknown
158	i2082817a	190-14295-D-4-A	08/28/17 08:30 PM Unknown
159	i2082817a	CCV-4198708	08/28/17 08:34 PM QC
160	i2082817a	CCB-4204839	08/28/17 08:37 PM QC
161	i2082817a	CCVL-4195955	08/28/17 08:41 PM QC
162	i2082817a	480-123285-E-1-A	08/28/17 08:45 PM Unknown
163	i2082817a	480-123285-E-2-A	08/28/17 08:48 PM Unknown
164	i2082817a	480-123285-E-3-A	08/28/17 08:52 PM Unknown
165	i2082817a	blank	08/28/17 08:55 PM Unknown
166	i2082817a	MB 480-373991/1-A	08/28/17 08:59 PM Unknown
167	i2082817a	LCS 480-373991/2-A	08/28/17 09:03 PM Unknown
168	i2082817a	480-123214-C-1-D	08/28/17 09:06 PM Unknown
169	i2082817a	480-123214-C-1-Dpds	08/28/17 09:10 PM Unknown
170	i2082817a	480-123214-C-1-Dsd@5	08/28/17 09:13 PM Unknown
171	i2082817a	CCV-4198708	08/28/17 09:17 PM QC
172	i2082817a	CCB-4204839	08/28/17 09:20 PM QC
173	i2082817a	CCVL-4195955	08/28/17 09:24 PM QC
174	i2082817a	480-123214-C-1-E MS	08/28/17 09:28 PM Unknown
175	i2082817a	480-123214-C-1-F MSD	08/28/17 09:31 PM Unknown
176	i2082817a	480-123214-C-2-B	08/28/17 09:35 PM Unknown
177	i2082817a	480-123214-C-3-B	08/28/17 09:38 PM Unknown
178	i2082817a	480-123214-C-4-B	08/28/17 09:42 PM Unknown
179	i2082817a	480-123214-C-5-B	08/28/17 09:46 PM Unknown
180	i2082817a	480-123214-C-6-B	08/28/17 09:49 PM Unknown
181	i2082817a	480-123173-B-13-A	08/28/17 09:53 PM Unknown
182	i2082817a	480-123173-B-14-A	08/28/17 09:56 PM Unknown
183	i2082817a	CCV-4198708	08/28/17 10:00 PM QC
184	i2082817a	CCB-4204839	08/28/17 10:03 PM QC
185	i2082817a	CCVL-4195955	08/28/17 10:07 PM QC
186	i2082817a	480-123209-A-5-A	08/28/17 10:11 PM Unknown
187	i2082817a	480-123158-D-1-A	08/28/17 10:14 PM Unknown
188	i2082817a	480-123158-D-2-A	08/28/17 10:18 PM Unknown
189	i2082817a	480-123158-D-3-A	08/28/17 10:21 PM Unknown
190	i2082817a	480-123158-D-4-A	08/28/17 10:25 PM Unknown
191	i2082817a	480-123158-D-5-A	08/28/17 10:29 PM Unknown
192	i2082817a	480-123158-D-6-A	08/28/17 10:32 PM Unknown
193	i2082817a	480-123158-D-7-A	08/28/17 10:36 PM Unknown
194	i2082817a	480-123169-C-1-A	08/28/17 10:39 PM Unknown
195	i2082817a	CCV-4198708	08/28/17 10:43 PM QC
196	i2082817a	CCB-4204839	08/28/17 10:47 PM QC
197	i2082817a	CCVL-4195955	08/28/17 10:50 PM QC
198	i2082817a	480-123168-C-1-A	08/28/17 10:54 PM Unknown

199	i2082817a	480-123168-C-2-A	08/28/17 10:58 PM Unknown
200	i2082817a	480-123168-C-3-A	08/28/17 11:01 PM Unknown
201	i2082817a	mb 480-373988/1-a	08/28/17 11:05 PM Unknown
202	i2082817a	lcs 480-373988/2-a	08/28/17 11:09 PM Unknown
203	i2082817a	lcsd 480-373988/3-a	08/28/17 11:12 PM Unknown
204	i2082817a	480-123173-b-1-b	08/28/17 11:15 PM Unknown
205	i2082817a	480-123173-b-1-bPDS	08/28/17 11:19 PM Unknown
206	i2082817a	480-123173-b-1-bSD@5	08/28/17 11:22 PM Unknown
207	i2082817a	CCV-4198708	08/28/17 11:26 PM QC
208	i2082817a	CCB-4204839	08/28/17 11:30 PM QC
209	i2082817a	CCVL-4195955	08/28/17 11:33 PM QC
210	i2082817a	480-123173-b-1-c ms	08/28/17 11:37 PM Unknown
211	i2082817a	480-123173-b-1-d msd	08/28/17 11:40 PM Unknown
212	i2082817a	480-123173-b-2-d	08/28/17 11:44 PM Unknown
213	i2082817a	480-123173-b-3-b	08/28/17 11:47 PM Unknown
214	i2082817a	480-123173-b-4-b	08/28/17 11:51 PM Unknown
215	i2082817a	480-123173-b-5-b	08/28/17 11:54 PM Unknown
216	i2082817a	480-123173-b-6-b	08/28/17 11:58 PM Unknown
217	i2082817a	480-123173-b-7-b	08/29/17 12:02 AM Unknown
218	i2082817a	480-123173-b-8-b	08/29/17 12:05 AM Unknown
219	i2082817a	CCV-4198708	08/29/17 12:09 AM QC
220	i2082817a	CCB-4204839	08/29/17 12:12 AM QC
221	i2082817a	CCVL-4195955	08/29/17 12:16 AM QC
222	i2082817a	480-123173-b-9-b	08/29/17 12:19 AM Unknown
223	i2082817a	480-123173-b-10-b	08/29/17 12:23 AM Unknown
224	i2082817a	480-123173-c-11-b	08/29/17 12:27 AM Unknown
225	i2082817a	480-123173-c-13-b	08/29/17 12:30 AM Unknown
226	i2082817a	480-123173-c-14-b	08/29/17 12:34 AM Unknown
227	i2082817a	190-14267-d-1-c	08/29/17 12:37 AM Unknown
228	i2082817a	190-14267-c-2-c	08/29/17 12:41 AM Unknown
229	i2082817a	190-14267-c-3-c	08/29/17 12:45 AM Unknown
230	i2082817a	480-123211-a-1-a	08/29/17 12:48 AM Unknown

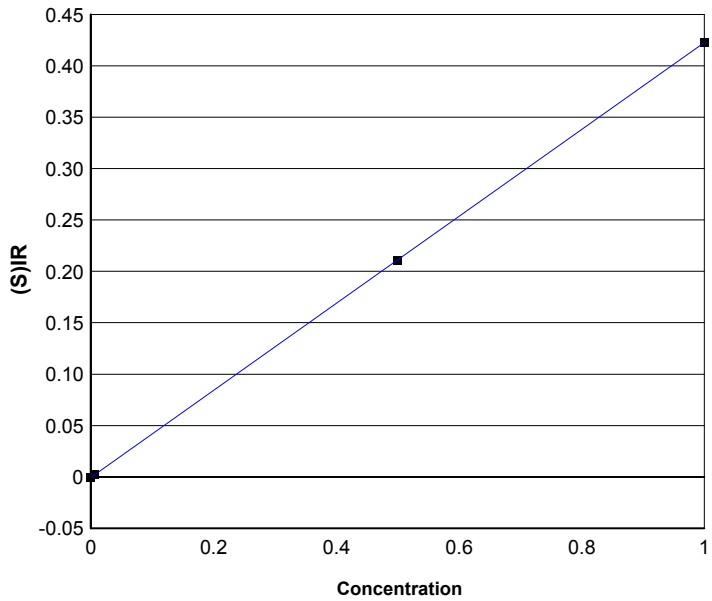
i2082817a

Author: jrk

Published: 8/29/2017 7:59:06AM

Instrument Name: iCAP2 Serial Number: 20094602

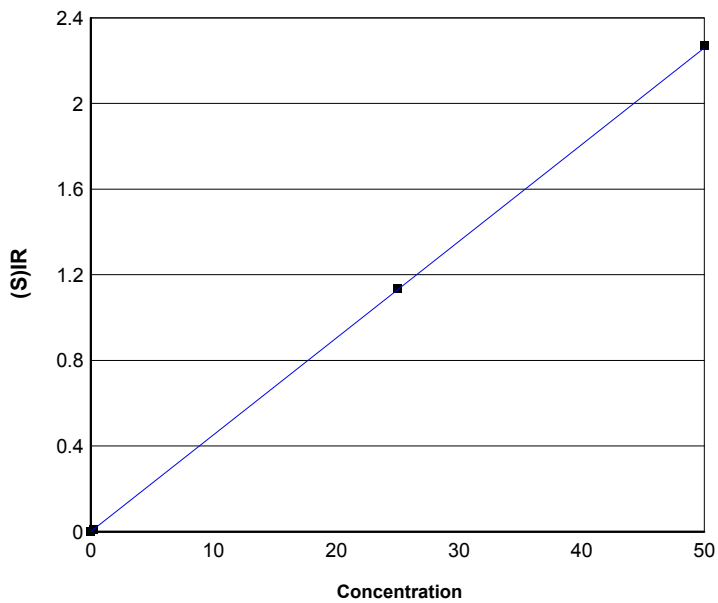
Method Name: ICAP2 June 2017 (95)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00031403
A1 (Gain):	0.42309
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

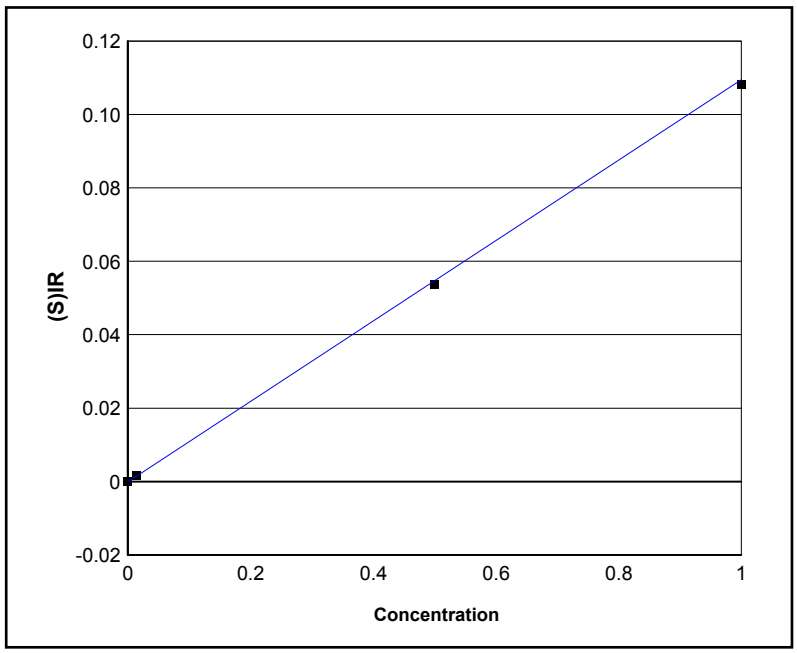
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000003861	-0.0000003861	0.00000	-0.00031420	0.00018699	1
IC-4195955	0.0060000	0.0063936	0.00039359	6.5598	0.0023910	0.00031499	1
IC-4207542	0.50000	0.49915	-0.00084976	-0.16995	0.21087	0.00027918	1
IC-4207541	1.0000	1.0005	0.00045617	0.045617	0.42297	0.0019179	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0016750
A1 (Gain):	0.045177
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

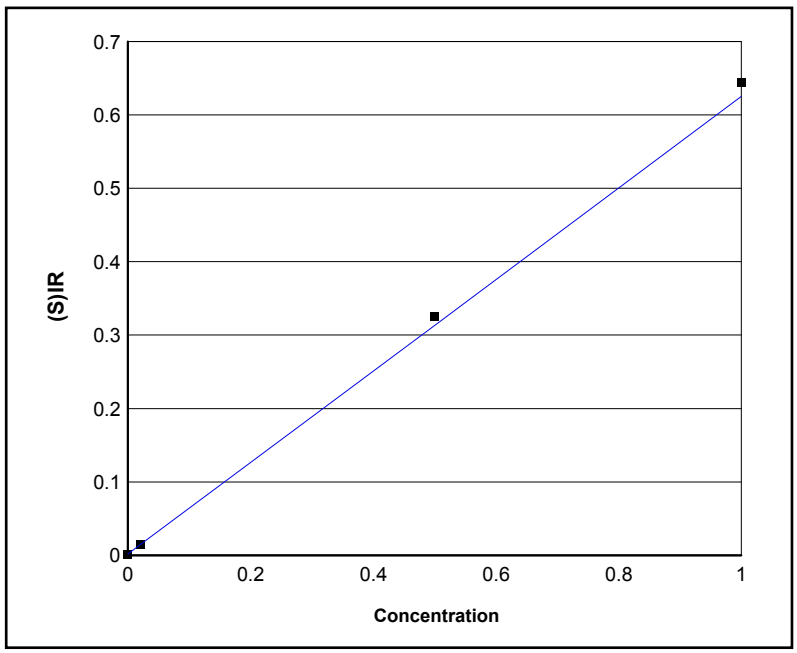
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.000011769	0.000011769	0.00000	0.0016755	0.00075184	1
IC-4195955	0.20000	0.18819	-0.011810	-5.9050	0.010227	0.00073630	1
IC-4207542	25.000	24.998	-0.0015681	-0.0062726	1.1360	0.0068245	1
IC-4207541	50.000	50.013	0.013391	0.026782	2.2711	0.014644	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.000065247
A1 (Gain):	0.10958
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

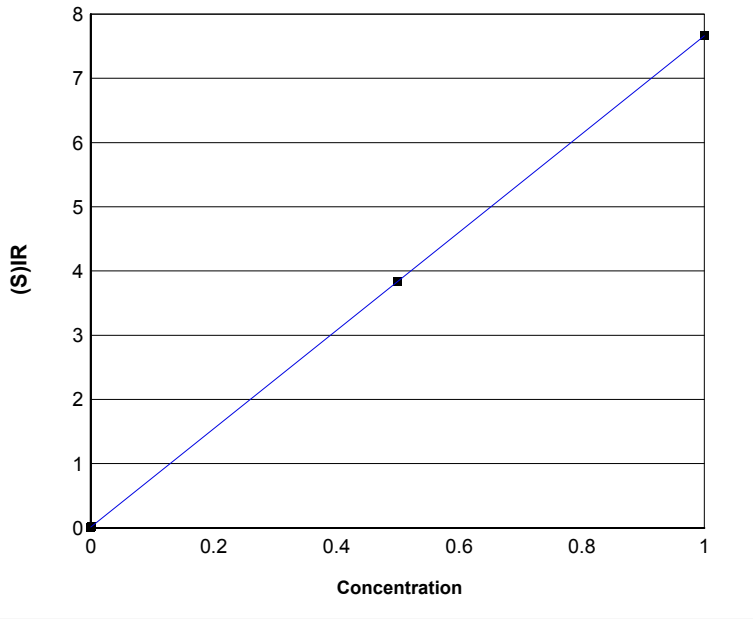
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001607	0.0000001607	0.00000	-0.000065229	0.00017810	1
IC-4195955	0.015000	0.014863	-0.00013707	-0.91383	0.0015568	0.00040055	1
IC-4207542	0.50000	0.49828	-0.0017156	-0.34313	0.053714	0.00011934	1
IC-4207541	1.0000	1.0019	0.0018542	0.18542	0.10807	0.000049949	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0015970
A1 (Gain):	0.62362
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

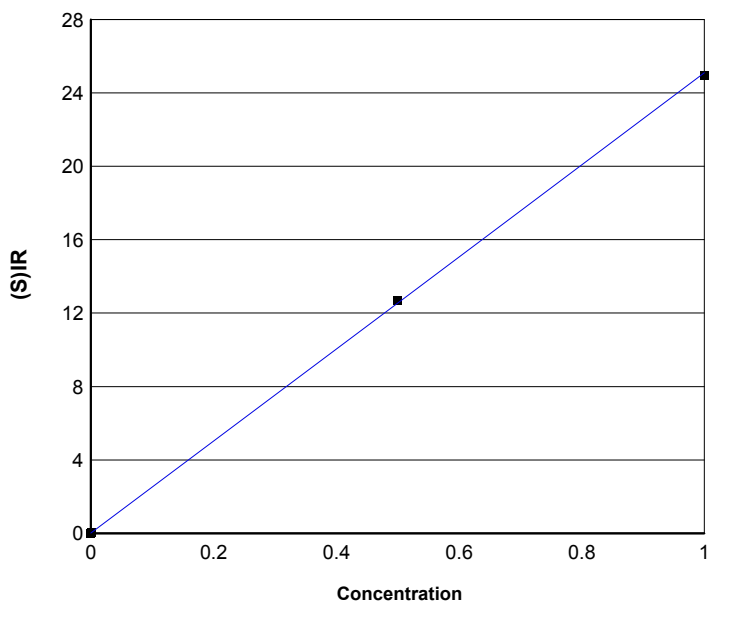
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001273	-0.0000001273	0.00000	0.0015969	0.000093456	1
IC-4195955	0.020000	0.020088	0.000088317	0.44158	0.014325	0.000023764	1
IC-4207542	0.50000	0.50204	0.0020375	0.40749	0.32470	0.00037112	1
IC-4207541	1.0000	0.99788	-0.0021244	-0.21244	0.64394	0.0000095135	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.014261
A1 (Gain):	7.6495
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

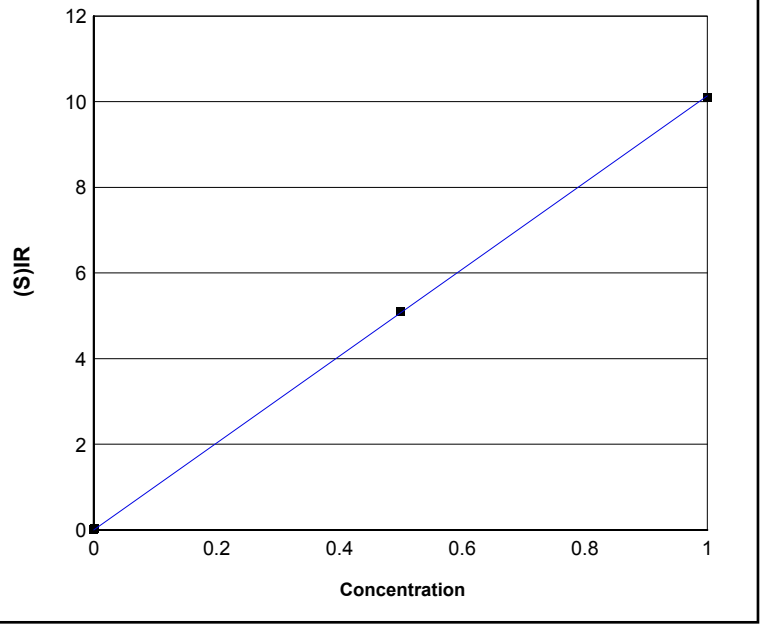
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001720	0.0000001720	0.00000	0.014262	0.00070843	1
IC-4195955	0.0020000	0.0018282	-0.00017179	-8.5897	0.028246	0.0024957	1
IC-4207542	0.50000	0.49971	-0.00029250	-0.058501	3.8368	0.0077416	1
IC-4207541	1.0000	1.0005	0.00046430	0.046430	7.6673	0.014209	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0087863
A1 (Gain):	25.088
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

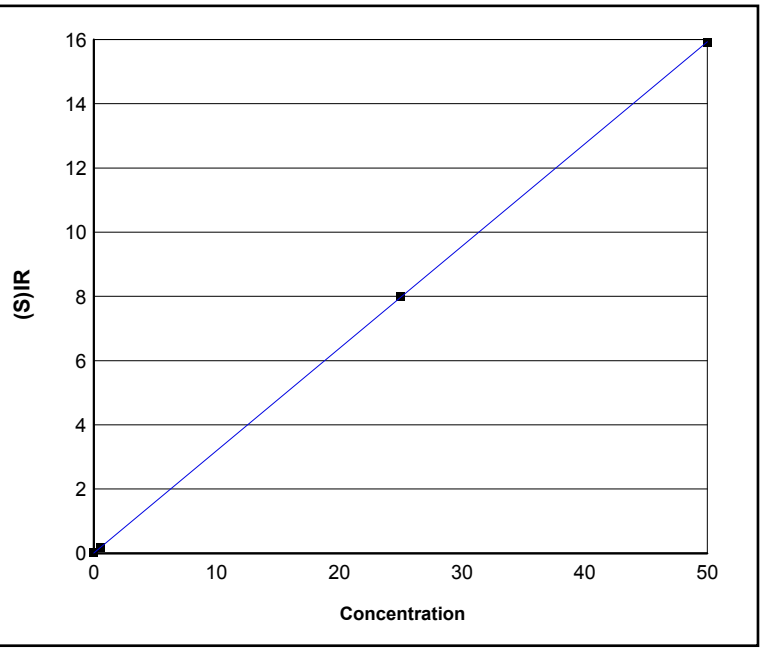
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000993	-0.0000000993	0.00000	0.0087838	0.000093770	1
IC-4195955	0.0020000	0.0020891	0.000089128	4.4564	0.061198	0.000025170	1
IC-4207542	0.50000	0.50518	0.0051799	1.0360	12.683	0.033159	1
IC-4207541	1.0000	0.99473	-0.0052690	-0.52690	24.965	0.11487	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0013901
A1 (Gain):	10.138
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

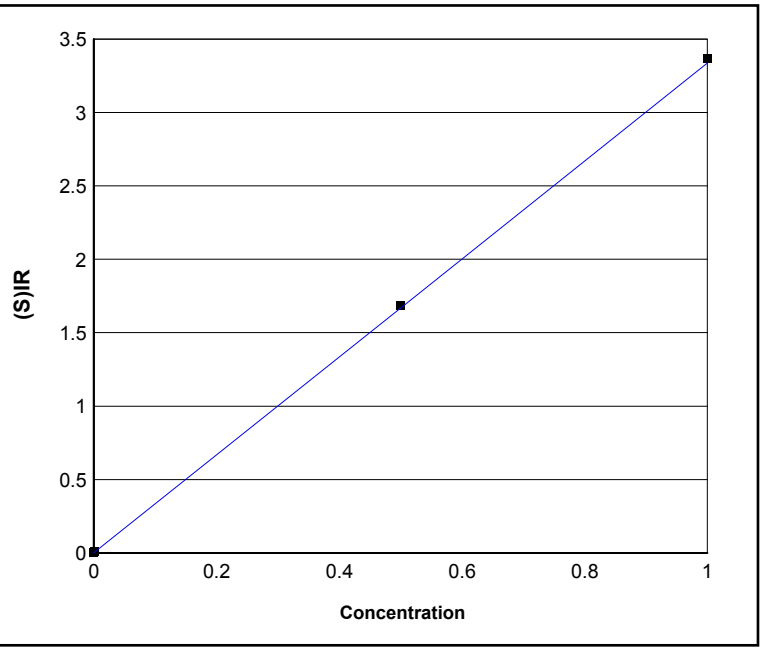
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000253	-0.0000000253	0.00000	0.0013899	0.00012345	1
IC-4195955	0.0020000	0.0020167	0.000016671	0.83353	0.021799	0.0016159	1
IC-4207542	0.50000	0.50432	0.0043209	0.86418	5.1106	0.024021	1
IC-4207541	1.0000	0.99566	-0.0043376	-0.43376	10.088	0.0083760	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.010027
A1 (Gain):	0.31849
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

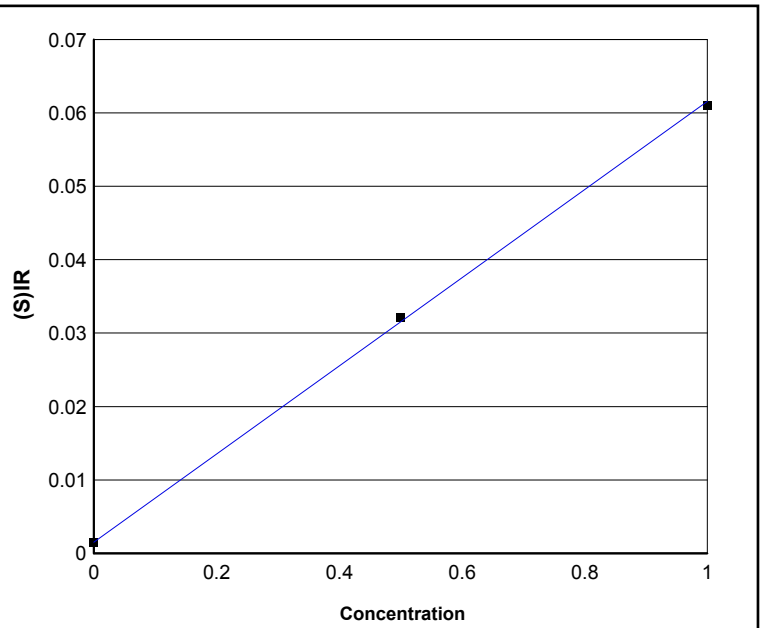
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000059457	-0.0000059457	0.00000	0.010025	0.00086793	1
IC-4195955	0.50000	0.50548	0.0054825	1.0965	0.17102	0.00079349	1
IC-4207542	25.000	25.052	0.051803	0.20721	7.9888	0.031054	1
IC-4207541	50.000	49.943	-0.057286	-0.11457	15.916	0.078127	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00099237
A1 (Gain):	3.3364
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

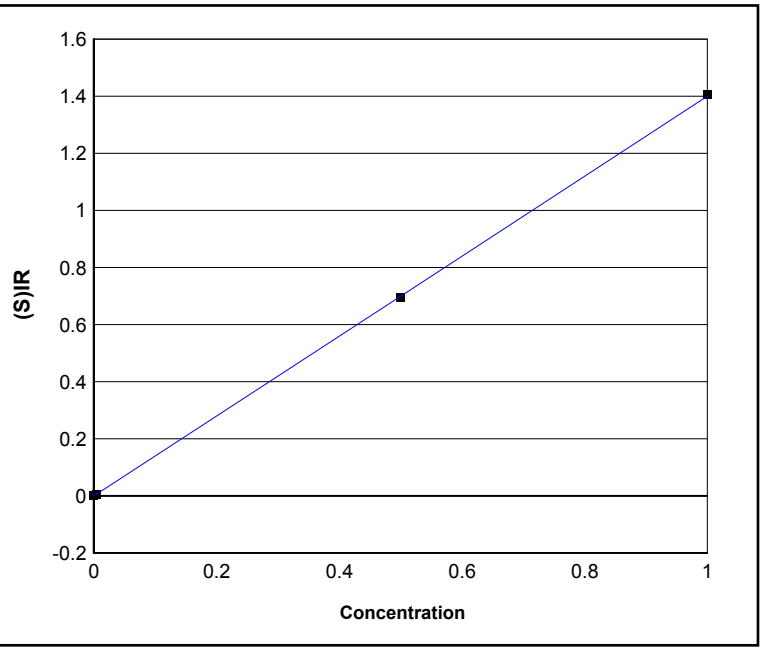
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000535	-0.0000000535	0.00000	0.00099219	0.000021855	1
IC-4195955	0.0020000	0.0020535	0.000053487	2.6743	0.0082813	0.000045777	1
IC-4207542	0.50000	0.50005	0.000047861	0.0095722	1.6839	0.00098580	1
IC-4207541	1.0000	0.99990	-0.00010437	-0.010437	3.3660	0.0016631	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.9999
A0 (Offset):	0.001496
A1 (Gain):	0.06009
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

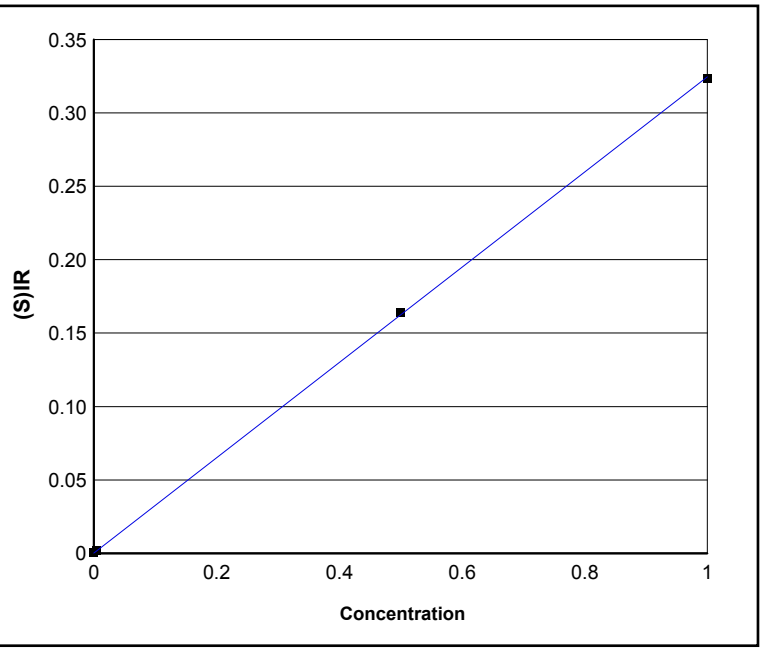
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000	-0.000005201	-0.000005201	0.0000	0.001496	0.0005802	1
IC-4207542	0.5000	0.5104	0.01040	2.080	0.03217	0.0003839	1
IC-4207541	1.000	0.9896	-0.01040	-1.040	0.06096	0.001943	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000058601
A1 (Gain):	1.3997
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

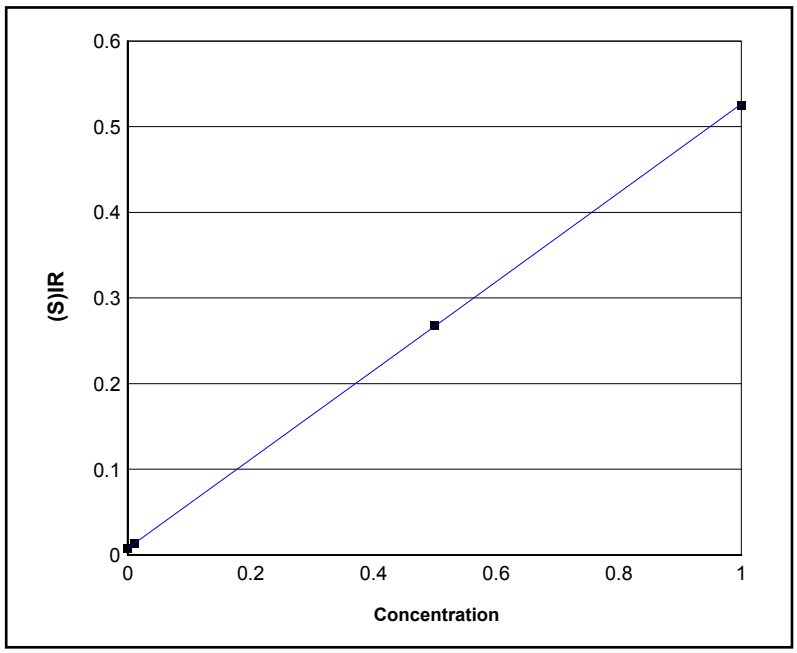
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001168	0.0000001168	0.00000	-0.000058438	0.000036353	1
IC-4195955	0.0040000	0.0038992	-0.00010081	-2.5203	0.0053970	0.00018584	1
IC-4207542	0.50000	0.49591	-0.0040919	-0.81837	0.69468	0.0017468	1
IC-4207541	1.0000	1.0042	0.0041926	0.41926	1.4067	0.000062080	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00020333
A1 (Gain):	0.32445
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

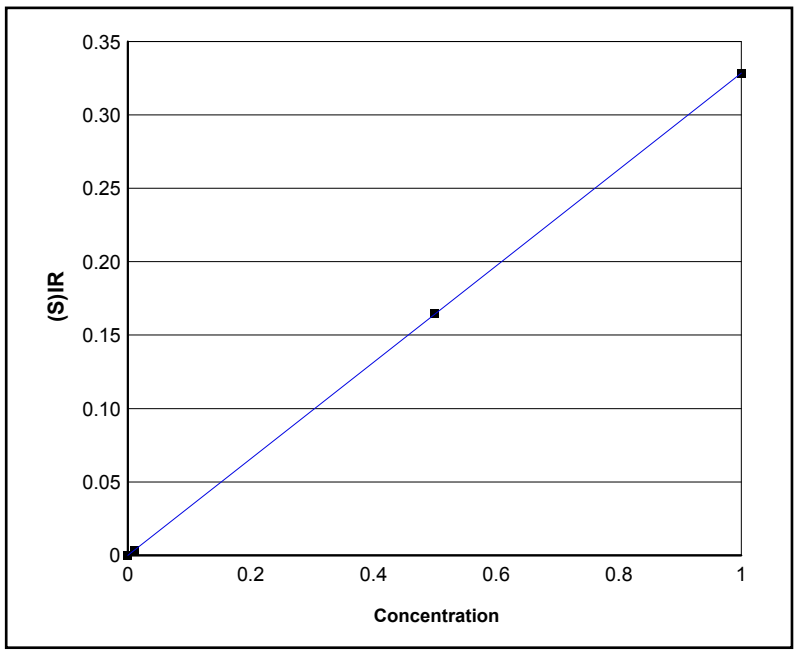
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001224	-0.0000001224	0.00000	0.00020329	0.00015776	1
IC-4195955	0.0040000	0.0041049	0.00010491	2.6226	0.0015351	0.00020433	1
IC-4207542	0.50000	0.50447	0.0044707	0.89415	0.16383	0.00048535	1
IC-4207541	1.0000	0.99542	-0.0045757	-0.45757	0.32307	0.0010854	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0076413
A1 (Gain):	0.51893
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

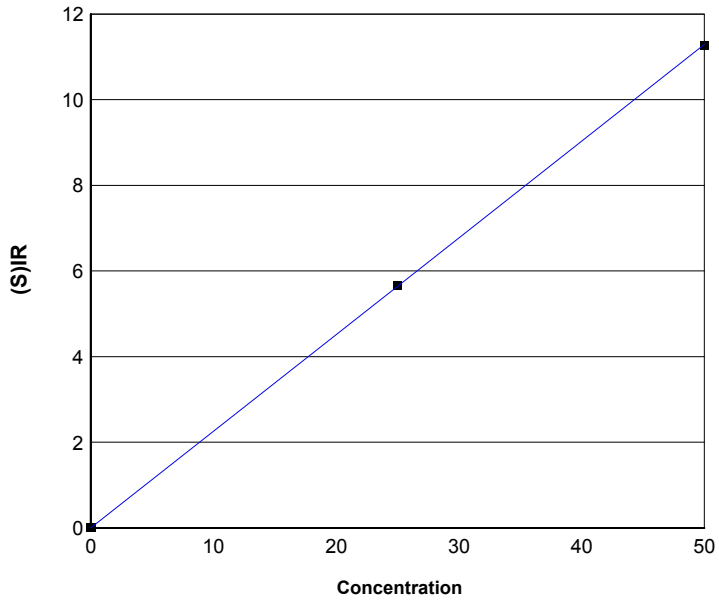
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000970	-0.0000000970	0.00000	0.0076413	0.00010592	1
IC-4195955	0.010000	0.010073	0.000073387	0.73387	0.012869	0.000017206	1
IC-4207542	0.50000	0.50243	0.0024302	0.48604	0.26837	0.00061186	1
IC-4207541	1.0000	0.99750	-0.0025036	-0.25036	0.52527	0.0014054	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.000052904
A1 (Gain):	0.32834
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

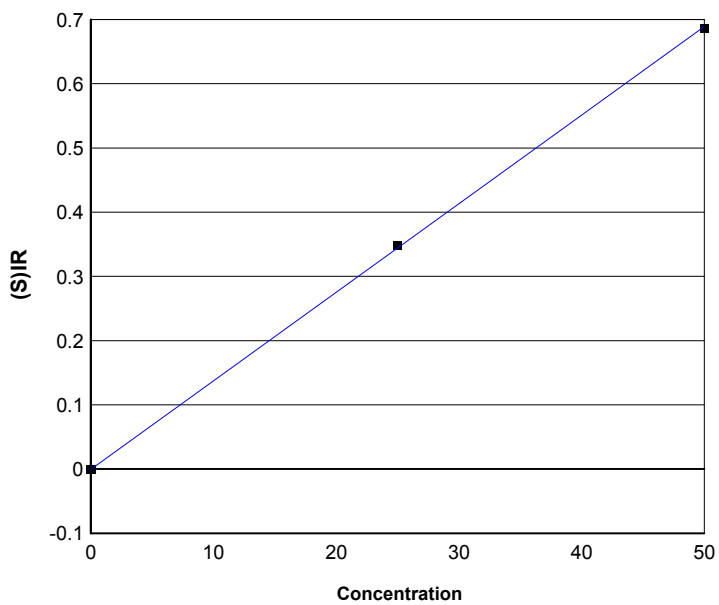
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000003653	-0.0000003653	0.00000	0.000052784	0.00031444	1
IC-4195955	0.010000	0.010360	0.00036000	3.6000	0.0034586	0.00031312	1
IC-4207542	0.50000	0.50089	0.00089214	0.17843	0.16468	0.00065843	1
IC-4207541	1.0000	0.99875	-0.0012522	-0.12522	0.32831	0.00055333	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0021818
A1 (Gain):	0.22581
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

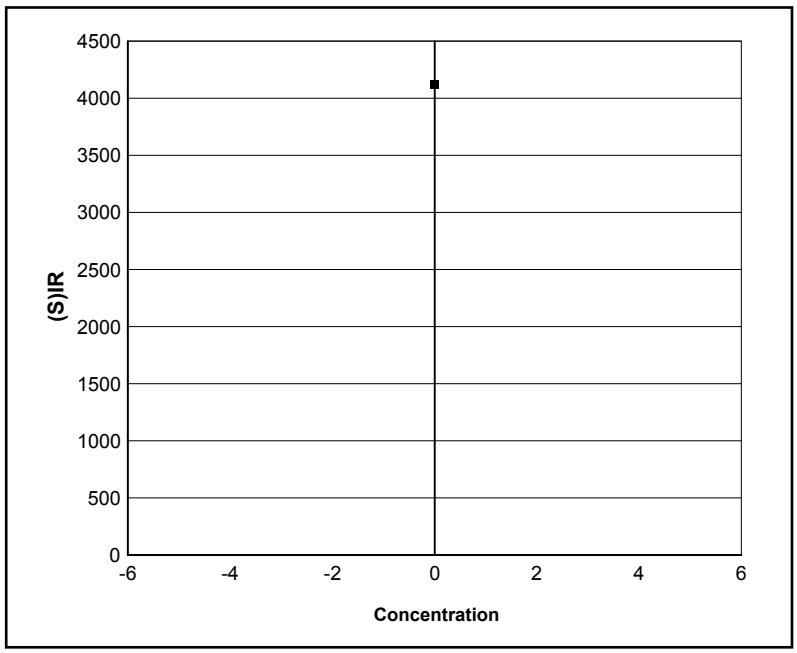
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000030390	0.0000030390	0.00000	0.0021825	0.00030829	1
IC-4195955	0.050000	0.046847	-0.0031525	-6.3050	0.012761	0.0000046987	1
IC-4207542	25.000	25.110	0.11039	0.44155	5.6725	0.0043482	1
IC-4207541	50.000	49.893	-0.10724	-0.21447	11.269	0.034728	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00021442
A1 (Gain):	0.013788
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

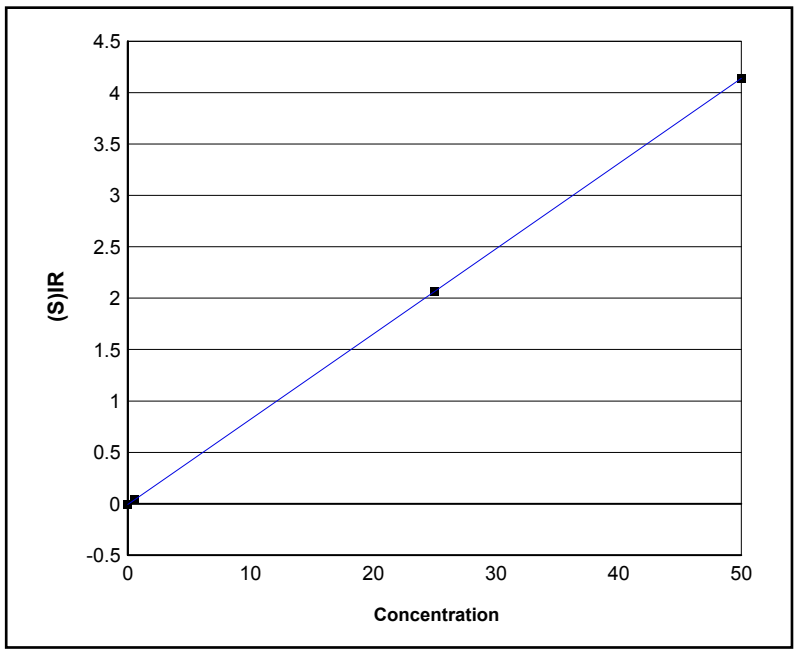
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.000023472	0.000023472	0.00000	-0.00021410	0.00091163	1
IC-4195955	0.050000	0.026277	-0.023723	-47.447	0.00014789	0.00039250	1
IC-4207542	25.000	25.228	0.22766	0.91064	0.34763	0.0027434	1
IC-4207541	50.000	49.796	-0.20394	-0.40787	0.68639	0.0039272	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:05:56AM
Date of Fit:	8/28/2017 11:05:56AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

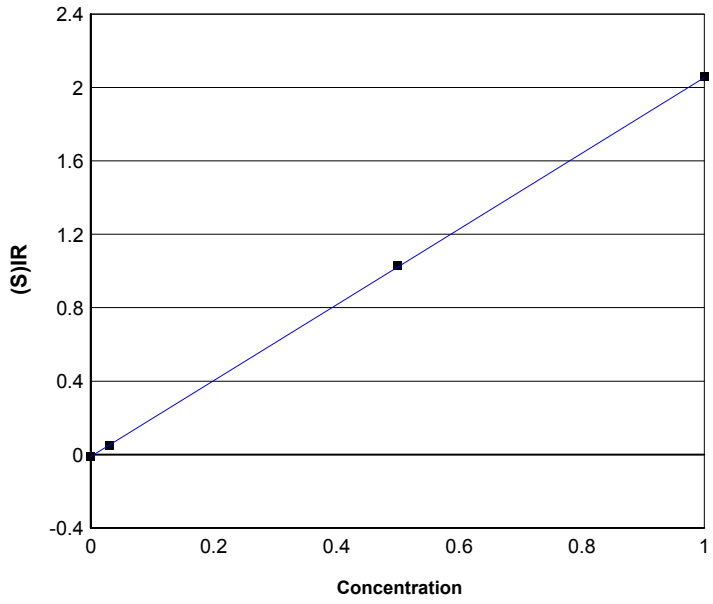
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	4,117	1.442	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.0076280
A1 (Gain):	0.082948
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

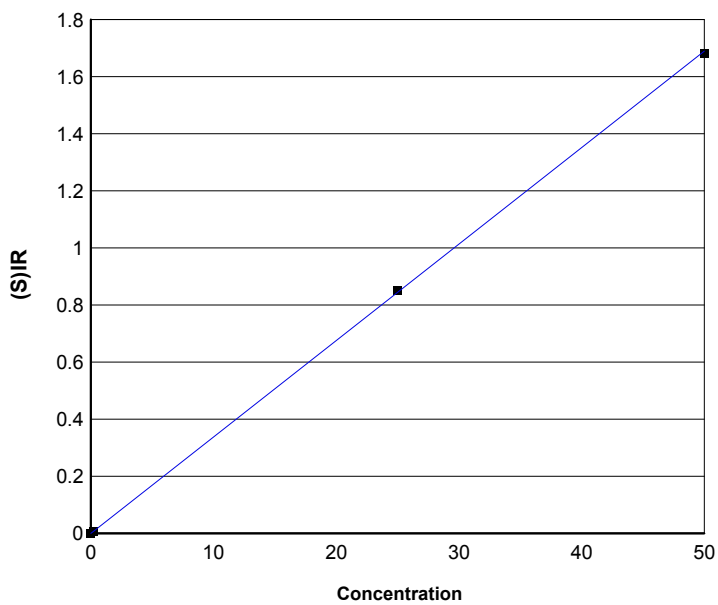
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	-0.000034085	-0.000034085	0.00000	-0.0076308	0.0016636	1
IC-4195955	0.50000	0.53410	0.034102	6.8204	0.036675	0.00036238	1
IC-4207542	25.000	25.032	0.032425	0.12970	2.0688	0.010965	1
IC-4207541	50.000	49.933	-0.066527	-0.13305	4.1342	0.0043152	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.010428
A1 (Gain):	2.0642
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

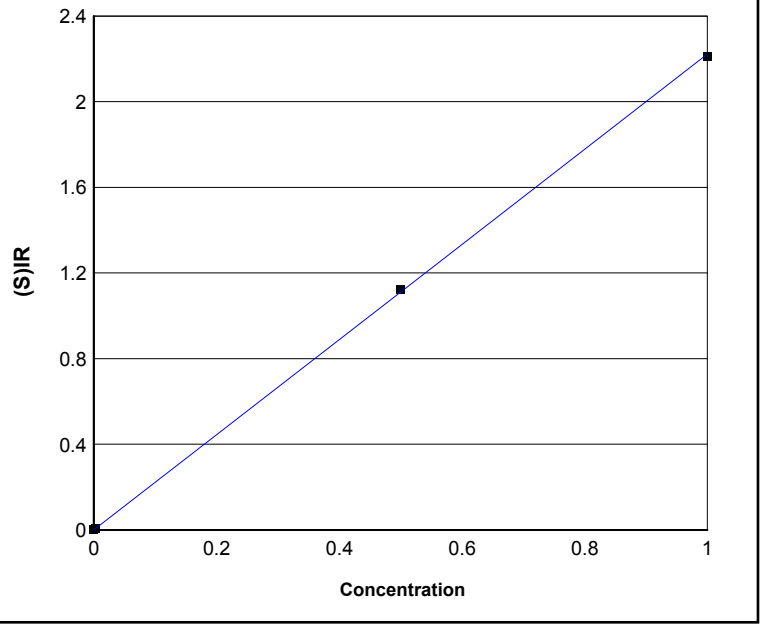
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001590	0.0000001590	0.00000	-0.010428	0.00027336	1
IC-4195955	0.030000	0.029799	-0.00020082	-0.66942	0.051185	0.0016674	1
IC-4207542	0.50000	0.50120	0.0011953	0.23905	1.0293	0.011880	1
IC-4207541	1.0000	0.99900	-0.00099511	-0.099511	2.0620	0.0097322	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00013132
A1 (Gain):	0.033783
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

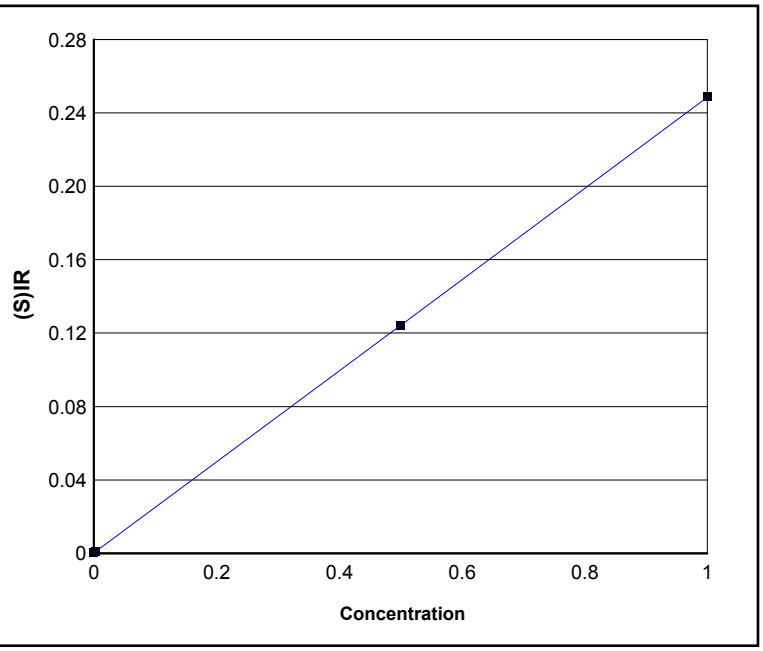
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000051552	-0.0000051552	0.00000	0.00013115	0.00013230	1
IC-4195955	0.20000	0.20440	0.0044039	2.2020	0.0070364	0.000068678	1
IC-4207542	25.000	25.192	0.19223	0.76891	0.85115	0.0024163	1
IC-4207541	50.000	49.803	-0.19663	-0.39326	1.6825	0.0033450	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00085207
A1 (Gain):	2.2212
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

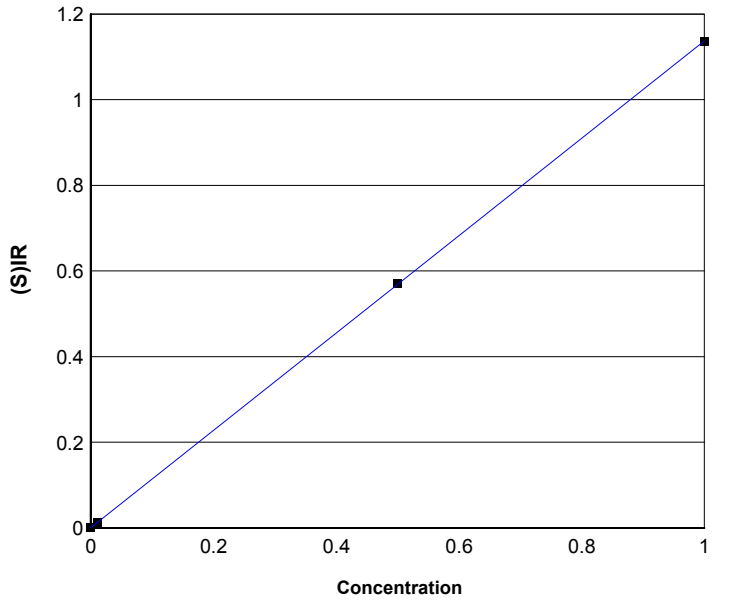
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000657	-0.0000000657	0.00000	0.00085192	0.000038503	1
IC-4195955	0.0030000	0.0030512	0.000051216	1.7072	0.0076321	0.00010396	1
IC-4207542	0.50000	0.50489	0.0048879	0.97758	1.1233	0.0061888	1
IC-4207541	1.0000	0.99506	-0.0049391	-0.49391	2.2130	0.0028161	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00020755
A1 (Gain):	0.24824
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

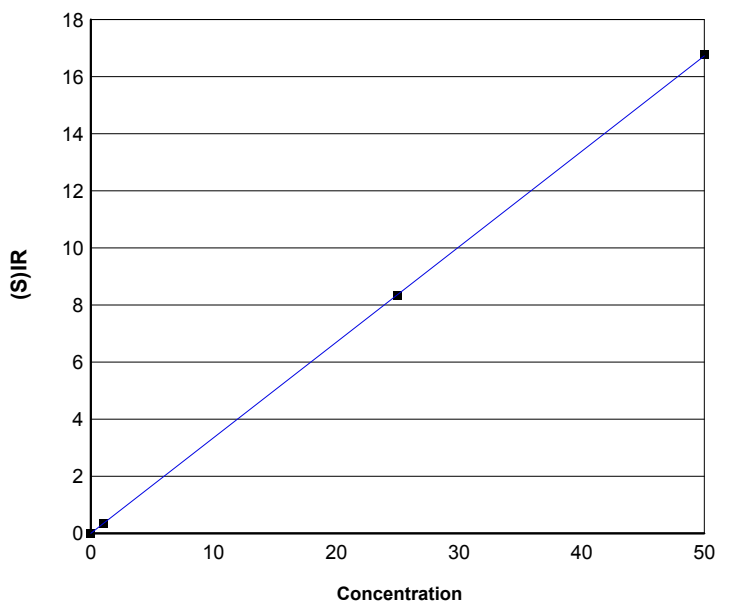
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000102	-0.0000000102	0.00000	0.00020754	0.000048172	1
IC-4195955	0.0030000	0.0030110	0.000011007	0.36691	0.00095531	0.000044683	1
IC-4207542	0.50000	0.49975	-0.00025380	-0.050760	0.12438	0.00058131	1
IC-4207541	1.0000	1.0002	0.00024280	0.024280	0.24873	0.0023487	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00065283
A1 (Gain):	1.1370
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

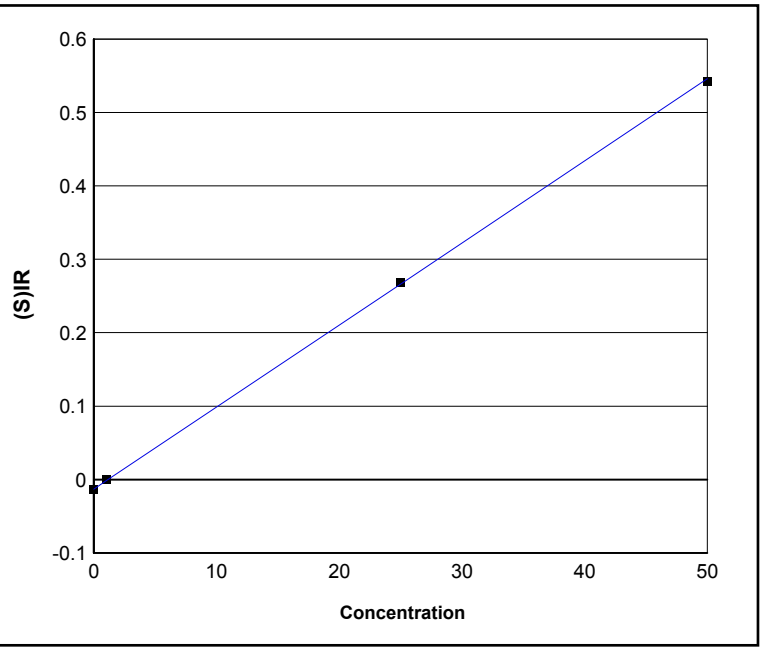
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001531	0.0000001531	0.00000	0.00065301	0.00018843	1
IC-4195955	0.010000	0.0098361	-0.00016394	-1.6394	0.011837	0.00023444	1
IC-4207542	0.50000	0.50092	0.00092461	0.18492	0.57021	0.00089462	1
IC-4207541	1.0000	0.99924	-0.00076067	-0.076067	1.1368	0.00047539	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0026826
A1 (Gain):	0.33454
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

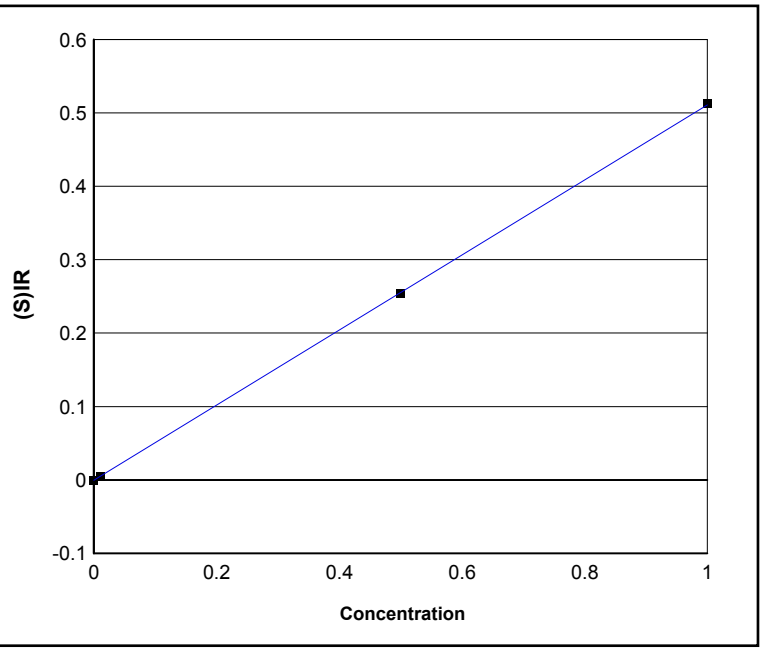
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000043650	0.0000043650	0.00000	0.0026840	0.0018991	1
IC-4195955	1.0000	0.99801	-0.0019900	-0.19900	0.33656	0.00066252	1
IC-4207542	25.000	24.879	-0.12074	-0.48296	8.3259	0.042663	1
IC-4207541	50.000	50.123	0.12273	0.24546	16.771	0.063362	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99972
A0 (Offset):	-0.013246
A1 (Gain):	0.011186
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

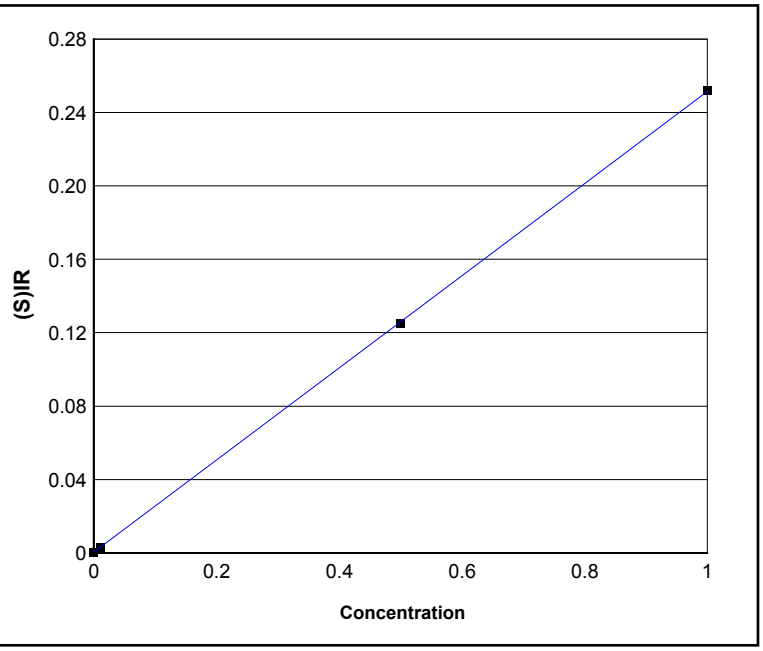
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	-0.00019563	-0.00019563	0.00000	-0.013249	0.0020136	1
IC-4195955	1.0000	1.1962	0.19615	19.615	0.00013375	0.0015459	1
IC-4207542	25.000	25.170	0.16982	0.67928	0.26830	0.0010829	1
IC-4207541	50.000	49.634	-0.36597	-0.73195	0.54196	0.0014616	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00062640
A1 (Gain):	0.51172
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

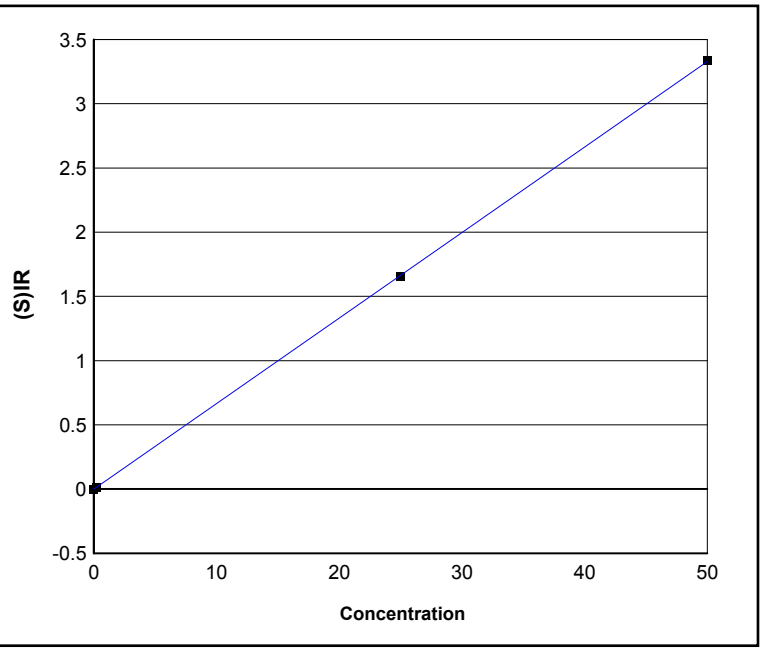
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000004283	0.0000004283	0.00000	-0.00062618	0.000096908	1
IC-4195955	0.010000	0.0095983	-0.00040166	-4.0166	0.0042858	0.0000062948	1
IC-4207542	0.50000	0.49693	-0.0030663	-0.61326	0.25394	0.000026834	1
IC-4207541	1.0000	1.0035	0.0034676	0.34676	0.51341	0.00028987	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00039097
A1 (Gain):	0.25103
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

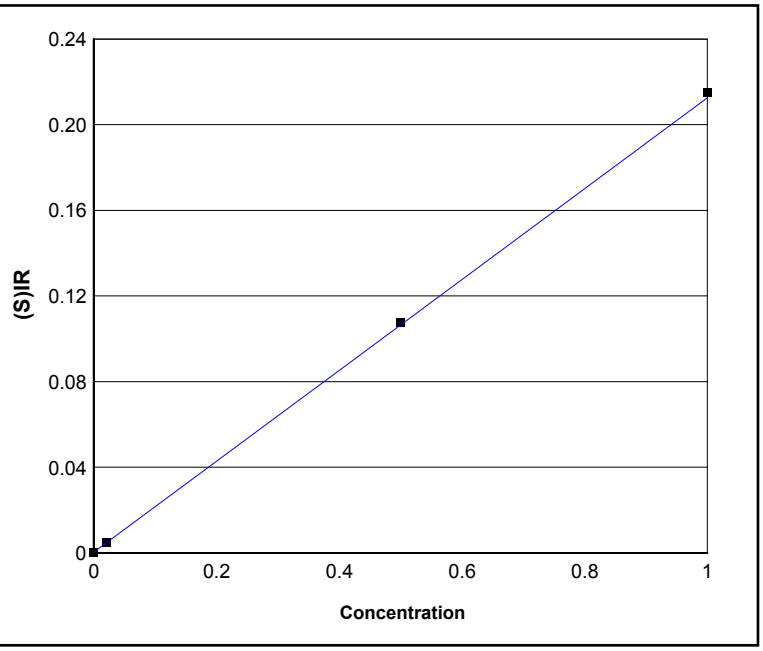
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002592	0.0000002592	0.00000	0.00039103	0.00017374	1
IC-4195955	0.010000	0.0097722	-0.00022782	-2.2782	0.0028385	0.00018688	1
IC-4207542	0.50000	0.49664	-0.0033644	-0.67287	0.12477	0.00033749	1
IC-4207541	1.0000	1.0036	0.0035922	0.35922	0.25175	0.00025210	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.000084591
A1 (Gain):	0.066550
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

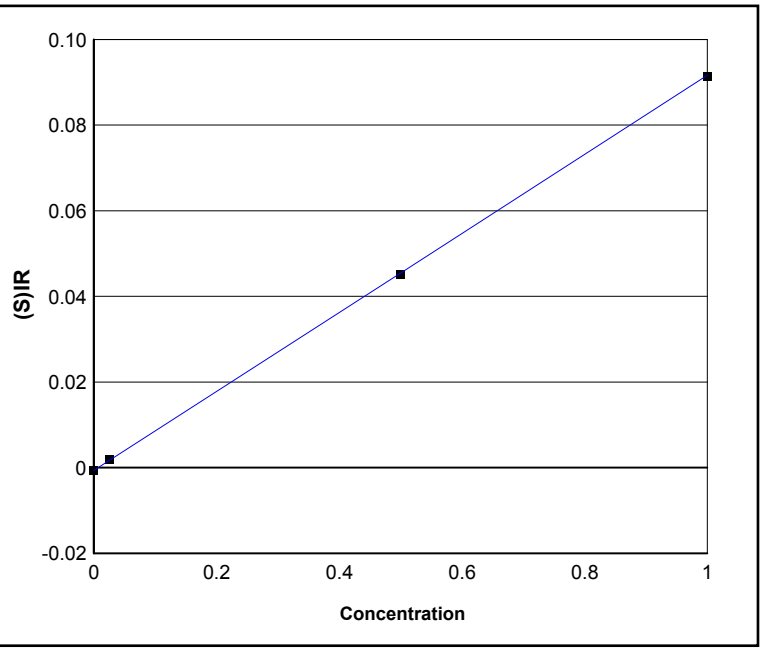
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000004460	0.0000004460	0.00000	-0.000084561	0.000029536	1
IC-4195955	0.20000	0.20001	0.000010713	0.0053565	0.013226	0.00031582	1
IC-4207542	25.000	24.886	-0.11417	-0.45666	1.6561	0.000084151	1
IC-4207541	50.000	50.114	0.11415	0.22831	3.3350	0.0015021	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00036213
A1 (Gain):	0.21222
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

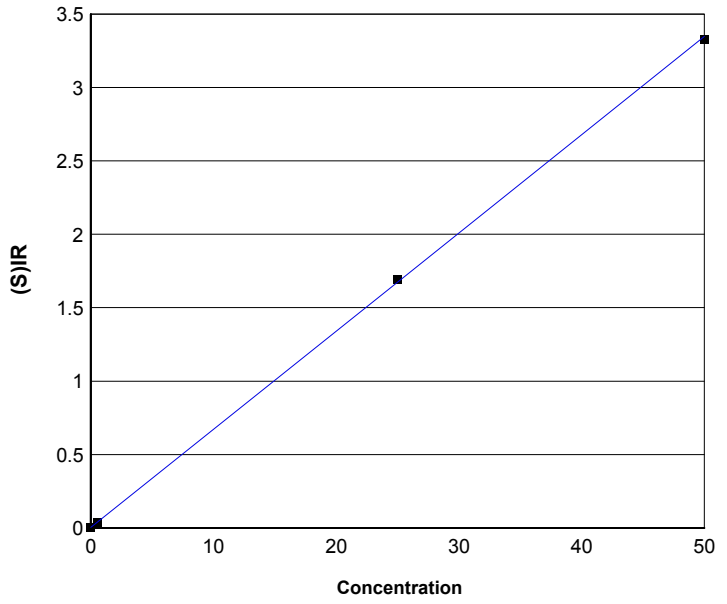
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001771	-0.0000001771	0.00000	0.00036209	0.000022288	1
IC-4195955	0.020000	0.020178	0.00017754	0.88771	0.0046545	0.00011445	1
IC-4207542	0.50000	0.50016	0.00015559	0.031117	0.10774	0.00033399	1
IC-4207541	1.0000	0.99967	-0.00033151	-0.033151	0.21498	0.00022070	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99983
A0 (Offset):	-0.00063872
A1 (Gain):	0.092272
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

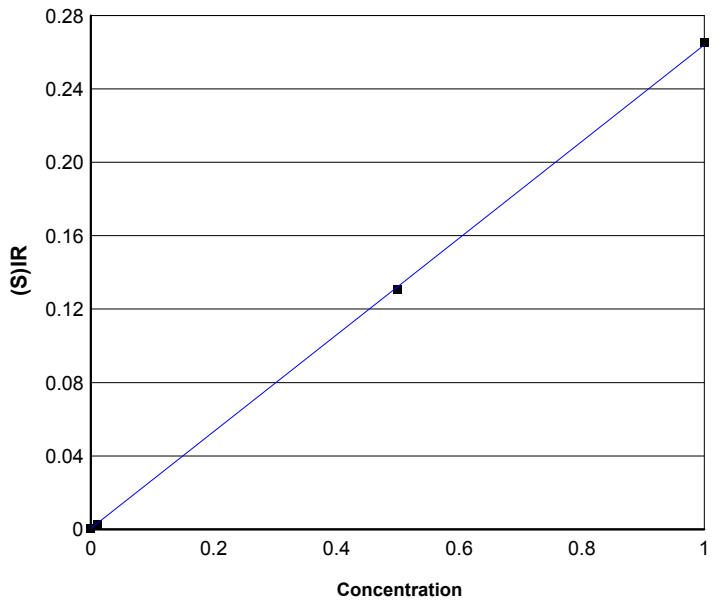
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000034212	-0.0000034212	0.00000	-0.00063903	0.00020251	1
IC-4195955	0.025000	0.028583	0.0035832	14.333	0.0019981	0.000090212	1
IC-4207542	0.50000	0.49711	-0.0028921	-0.57843	0.045158	0.00027535	1
IC-4207541	1.0000	0.99930	-0.00069569	-0.069569	0.091425	0.00047041	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.0034323
A1 (Gain):	0.066869
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

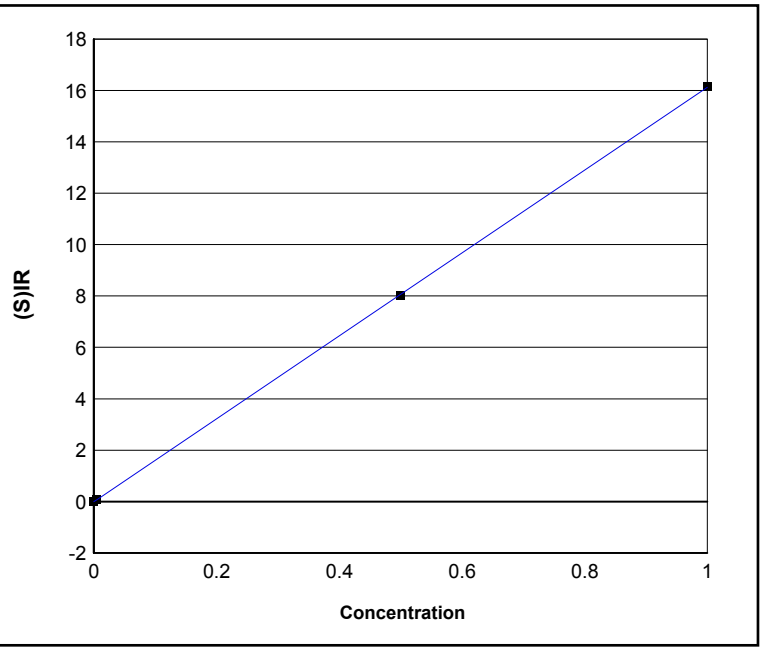
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000025272	-0.0000025272	0.00000	0.0034321	0.00085208	1
IC-4195955	0.50000	0.49938	-0.00061658	-0.12332	0.036825	0.000093330	1
IC-4207542	25.000	25.314	0.31376	1.2550	1.6961	0.011551	1
IC-4207541	50.000	49.687	-0.31314	-0.62629	3.3259	0.018417	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:29AM
Date of Fit:	8/28/2017 11:16:29AM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00041643
A1 (Gain):	0.26365
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

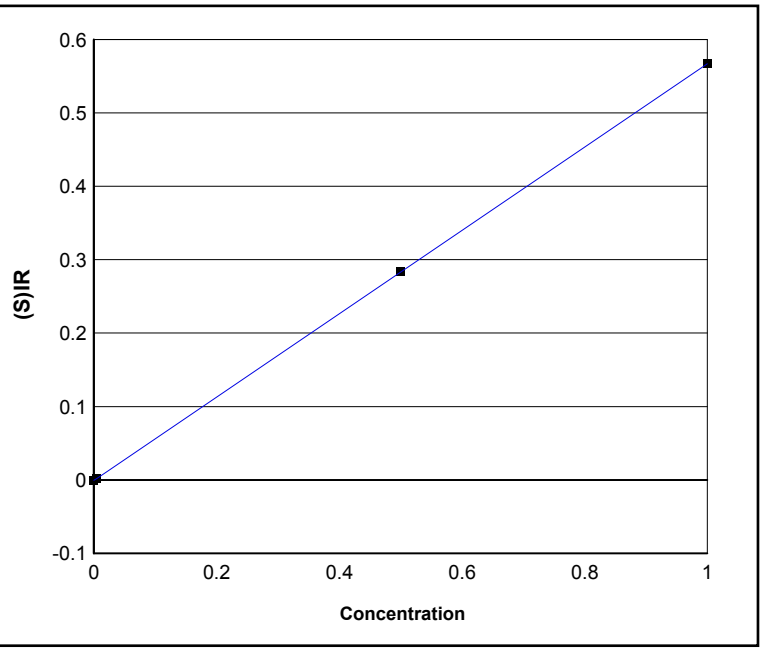
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000006447	0.0000006447	0.00000	0.00041660	0.00014471	1
IC-4195955	0.010000	0.0093970	-0.00060301	-6.0301	0.0028939	0.000074925	1
IC-4207542	0.50000	0.49522	-0.0047756	-0.95512	0.13098	0.00046561	1
IC-4207541	1.0000	1.0054	0.0053786	0.53786	0.26548	0.00067967	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:30AM
Date of Fit:	8/28/2017 11:16:30AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0031963
A1 (Gain):	16.129
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

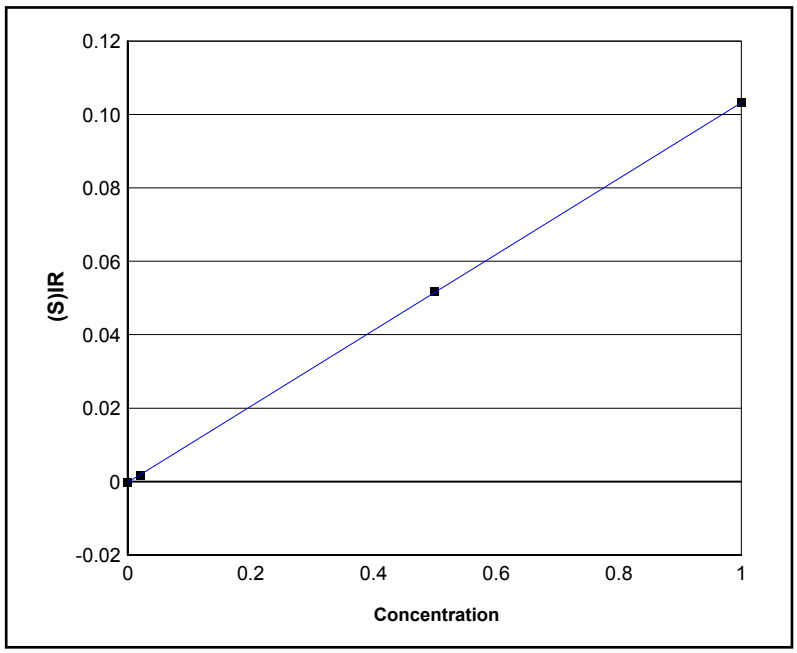
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000220	-0.0000000220	0.00000	-0.0031967	0.00072475	1
IC-4195955	0.0050000	0.0050336	0.000033576	0.67151	0.077992	0.00062336	1
IC-4207542	0.50000	0.49772	-0.0022785	-0.45570	8.0247	0.051269	1
IC-4207541	1.0000	1.0022	0.0022449	0.22449	16.162	0.031201	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:30AM
Date of Fit:	8/28/2017 11:16:30AM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00075865
A1 (Gain):	0.56766
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

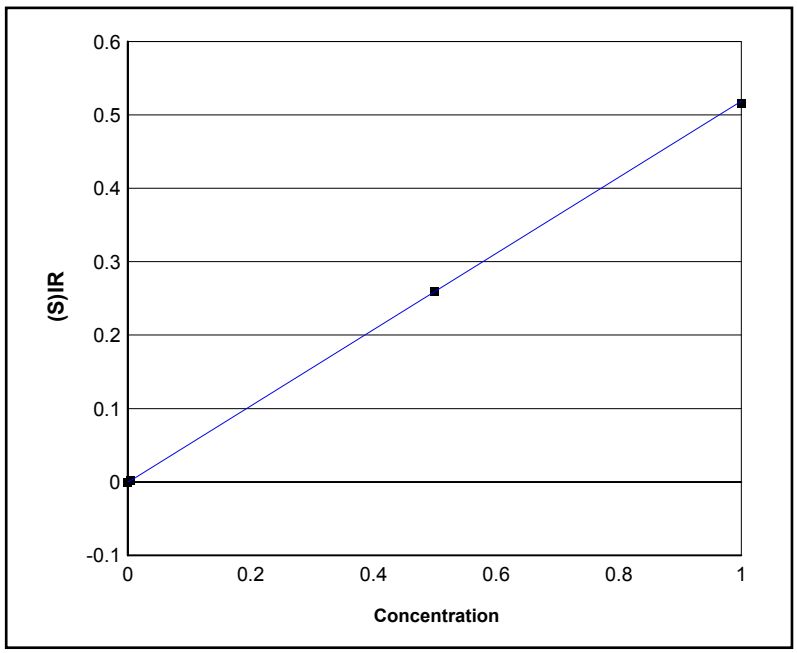
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001481	-0.0000001481	0.00000	-0.00075874	0.000013535	1
IC-4195955	0.0050000	0.0051426	0.00014263	2.8526	0.0021677	0.00016011	1
IC-4207542	0.50000	0.50123	0.0012301	0.24602	0.28417	0.00013125	1
IC-4207541	1.0000	0.99863	-0.0013729	-0.13729	0.56692	0.0024275	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:30AM
Date of Fit:	8/28/2017 11:16:30AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00023923
A1 (Gain):	0.10344
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

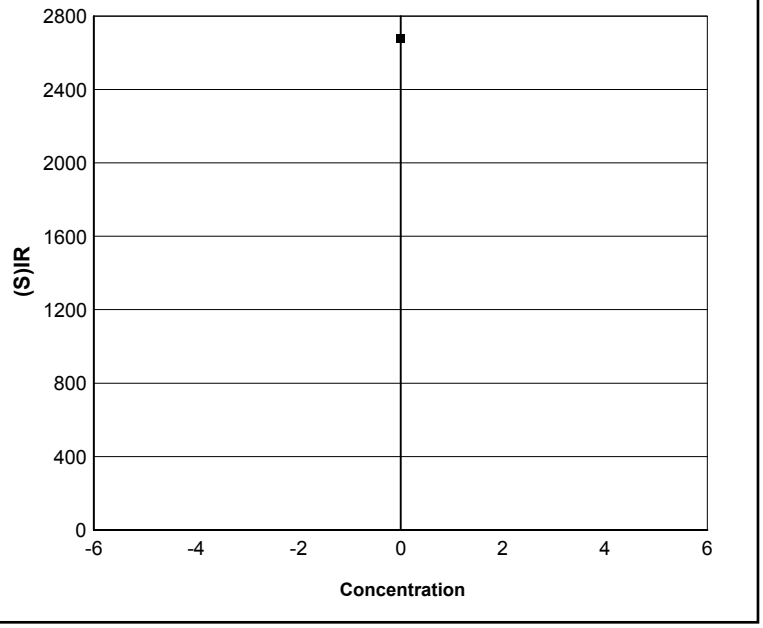
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000007449	0.0000007449	0.00000	-0.00023915	0.00011820	1
IC-4195955	0.020000	0.019215	-0.00078454	-3.9227	0.0017485	0.000010295	1
IC-4207542	0.50000	0.50120	0.0011986	0.23972	0.051680	0.00031363	1
IC-4207541	1.0000	0.99958	-0.00041514	-0.041514	0.10331	0.00036938	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:30AM
Date of Fit:	8/28/2017 11:16:30AM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00034012
A1 (Gain):	0.51919
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

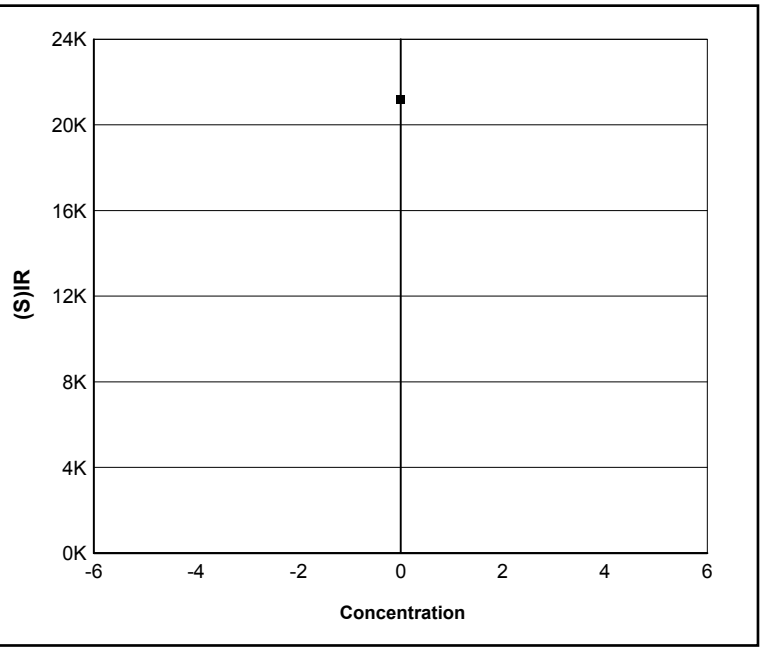
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002243	0.0000002243	0.00000	-0.00034001	0.00024020	1
IC-4195955	0.0050000	0.0047620	-0.00023798	-4.7596	0.0021058	0.00031409	1
IC-4207542	0.50000	0.50250	0.0025038	0.50076	0.25947	0.00010627	1
IC-4207541	1.0000	0.99773	-0.0022673	-0.22673	0.51551	0.0032135	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:05:56AM
Date of Fit:	8/28/2017 11:05:56AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

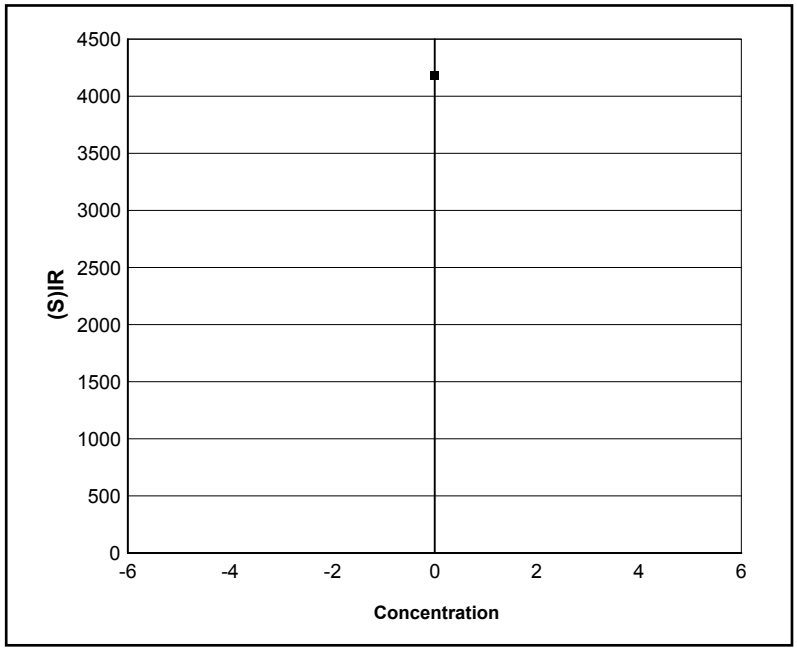
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	2,677	1.311	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:05:56AM
Date of Fit:	8/28/2017 11:05:56AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

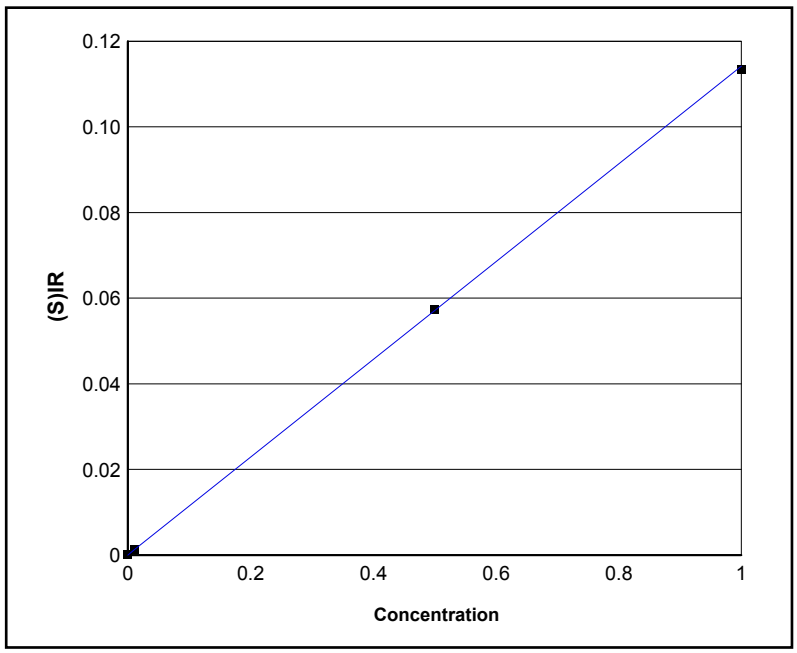
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	21,190	78.38	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:05:56AM
Date of Fit:	8/28/2017 11:05:56AM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	4,187	7.990	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	8/28/2017 11:16:30AM
Date of Fit:	8/28/2017 11:16:30AM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.000014858
A1 (Gain):	0.11417
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000014844	-0.0000014844	0.00000	0.000014689	0.000056229	1
IC-4195955	0.010000	0.011457	0.0014571	14.571	0.0013221	0.0000067431	1
IC-4207542	0.50000	0.50418	0.0041827	0.83654	0.057475	0.00019728	1
IC-4207541	1.0000	0.99436	-0.0056414	-0.56414	0.11334	0.00089337	1

Sample Name: ICIS-4204839 Acquired: 8/28/2017 11:02:23 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00031**	**.00168**	**-.00007**	**.00160**	**.01426**
Stddev	.00019	.00075	.00018	.00009	.00071
%RSD	59.514	44.871	273.04	5.8524	4.9672
#1	-.00018	.00114	.00006	.00166	.01376
#2	-.00045	.00221	-.00019	.00153	.01476

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00878**	**.00139**	**.01003**	**.00099**	**.0015**
Stddev	.00009	.00012	.00087	.00002	.0006
%RSD	1.0675	8.8820	8.6574	2.2027	38.79
#1	.00885	.00130	.01064	.00101	.0011
#2	.00872	.00148	.00941	.00098	.0019

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00006**	**.00020**	**.00005**	**.00218**	**-.00021**
Stddev	.00004	.00016	.00031	.00031	.00091
%RSD	62.208	77.602	595.72	14.126	425.80
#1	-.00008	.00009	.00028	.00240	-.00086
#2	-.00003	.00031	-.00017	.00196	.00043

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00763**	**-.01043**	**.00013**	**.00085**	**.00021**
Stddev	.00166	.00027	.00013	.00004	.00005
%RSD	21.801	2.6214	100.88	4.5195	23.210
#1	-.00645	-.01062	.00004	.00088	.00017
#2	-.00881	-.01023	.00022	.00082	.00024

Sample Name: ICIS-4204839 Acquired: 8/28/2017 11:02:23 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00065**	**.00268**	**-.01325**	**-.00063**	**.00039**
Stddev	.00019	.00190	.00201	.00010	.00017
%RSD	28.856	70.754	15.199	15.476	44.430
#1	.00052	.00134	-.01182	-.00056	.00051
#2	.00079	.00403	-.01467	-.00069	.00027

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00008**	**.00036**	**-.00064**	**.00343**	**.00042**
Stddev	.00003	.00002	.00020	.00085	.00014
%RSD	34.928	6.1553	31.690	24.827	34.736
#1	-.00011	.00035	-.00078	.00283	.00052
#2	-.00006	.00038	-.00050	.00403	.00031

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00320**	**-.00076**	**-.00024**	**-.00034**	**.00001**
Stddev	.00072	.00001	.00012	.00024	.00006
%RSD	22.672	1.7838	49.426	70.646	382.81
#1	-.00371	-.00075	-.00016	-.00017	-.00003
#2	-.00268	-.00077	-.00032	-.00051	.00005

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4117.4**	**2677.2**	**21191.**	**4186.7**
Stddev	1.4	1.3	78.	8.0
%RSD	.03503	.04895	.36986	.19085
#1	4116.4	2678.1	21136.	4192.3
#2	4118.4	2676.3	21247.	4181.0

Sample Name: IC-4195955 Acquired: 8/28/2017 11:05:59 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00239**	**.01023**	**.00156**	**.01432**	**.02825**
Stddev	.00031	.00074	.00040	.00002	.00250
%RSD	13.174	7.1998	25.729	.16590	8.8357
#1	.00261	.00971	.00184	.01431	.03001
#2	.00217	.01075	.00127	.01434	.02648

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06120**	**.02180**	**.17102**	**.00828**	**.00540**
Stddev	.00003	.00162	.00079	.00005	.00019
%RSD	.04113	7.4125	.46398	.55277	3.4434
#1	.06122	.02066	.17158	.00825	.00553
#2	.06118	.02294	.17046	.00831	.00527

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00154**	**.00346**	**.01276**	**.00015**	**.03667**
Stddev	.00020	.00031	.00000	.00039	.00036
%RSD	13.311	9.0533	.03682	265.40	.98808
#1	.00139	.00368	.01276	-.00013	.03642
#2	.00168	.00324	.01276	.00043	.03693

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.05119**	**.00704**	**.00763**	**.00096**	**.01184**
Stddev	.00167	.00007	.00010	.00004	.00023
%RSD	3.2577	.97604	1.3621	4.6773	1.9807
#1	.05236	.00699	.00771	.00099	.01167
#2	.05001	.00708	.00756	.00092	.01200

Sample Name: IC-4195955 Acquired: 8/28/2017 11:05:59 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.33656**	**.00013**	**.00429**	**.00284**	**.01323**
Stddev	.00066	.00155	.00001	.00019	.00032
%RSD	.19685	1155.8	.14687	6.5839	2.3878
#1	.33703	.00123	.00428	.00297	.01345
#2	.33609	-.00096	.00429	.00271	.01300

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00465**	**.00200**	**.03683**	**.00289**	**.07799**
Stddev	.00011	.00009	.00009	.00007	.00062
%RSD	2.4588	4.5150	.25344	2.5890	.79926
#1	.00474	.00206	.03676	.00284	.07755
#2	.00457	.00193	.03689	.00295	.07843

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00217**	**.00175**	**.00211**	**.00132**
Stddev	.00016	.00001	.00031	.00001
%RSD	7.3863	.58876	14.916	.51003
#1	.00205	.00174	.00188	.00133
#2	.00228	.00176	.00233	.00132

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4086.5**	**2678.4**	**21310.**	**4236.6**
Stddev	1.4	1.9	52.	7.9
%RSD	.03431	.06985	.24345	.18545
#1	4087.5	2679.7	21346.	4242.1
#2	4085.6	2677.0	21273.	4231.0

Sample Name: IC-4207542 Acquired: 8/28/2017 11:09:40 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.21087**	**1.1360**	**.05371**	**.32470**	**3.8368**
Stddev	.00028	.0068	.00012	.00037	.0077
%RSD	.13239	.60074	.22218	.11430	.20177
#1	.21107	1.1312	.05380	.32497	3.8313
#2	.21068	1.1408	.05363	.32444	3.8423

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.683**	**5.1106**	**7.9888**	**1.6839**	**.0322**
Stddev	.033	.0240	.0311	.0010	.0004
%RSD	.26145	.47003	.38871	.05854	1.194
#1	12.659	5.0936	7.9668	1.6832	.0319
#2	12.706	5.1276	8.0108	1.6846	.0324

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.69468**	**.16383**	**.16468**	**5.6725**	**.34763**
Stddev	.00175	.00049	.00066	.0043	.00274
%RSD	.25146	.29625	.39983	.07666	.78915
#1	.69344	.16417	.16421	5.6694	.34570
#2	.69591	.16349	.16515	5.6755	.34957

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.0688**	**1.0293**	**.85115**	**1.1233**	**.12438**
Stddev	.0110	.0119	.00242	.0062	.00058
%RSD	.53002	1.1542	.28388	.55096	.46738
#1	2.0610	1.0209	.84944	1.1189	.12479
#2	2.0765	1.0377	.85286	1.1277	.12396

Sample Name: IC-4207542 Acquired: 8/28/2017 11:09:40 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.57021**	**8.3259**	**.26830**	**.25394**	**.12477**
Stddev	.00089	.0427	.00108	.00003	.00034
%RSD	.15689	.51242	.40361	.01057	.27048
#1	.57084	8.2957	.26754	.25392	.12501
#2	.56958	8.3560	.26907	.25396	.12454

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6561**	**.10774**	**.04516**	**1.6961**	**.13098**
Stddev	.0001	.00033	.00028	.0116	.00047
%RSD	.00508	.31001	.60974	.68104	.35548
#1	1.6561	.10797	.04535	1.6880	.13065
#2	1.6560	.10750	.04496	1.7043	.13131

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8.0247**	**.28417**	**.05168**	**.25947**	**.05747**
Stddev	.0513	.00013	.00031	.00011	.00020
%RSD	.63888	.04619	.60687	.04096	.34325
#1	7.9885	.28408	.05146	.25955	.05761
#2	8.0610	.28426	.05190	.25940	.05734

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3652.4**	**2599.8**	**20332.**	**4213.4**
Stddev	3.7	.8	27.	34.3
%RSD	.10212	.03012	.13276	.81328
#1	3655.0	2600.3	20351.	4237.7
#2	3649.8	2599.2	20313.	4189.2

Sample Name: IC-4207541 Acquired: 8/28/2017 11:13:08 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.42297**	**2.2711**	**.10807**	**.64394**	**7.6673**
Stddev	.00192	.0146	.00005	.00001	.0142
%RSD	.45343	.64480	.04622	.00148	.18532
#1	.42162	2.2607	.10811	.64394	7.6573
#2	.42433	2.2814	.10804	.64395	7.6774

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**24.965**	**10.088**	**15.916**	**3.3660**	**.0610**
Stddev	.115	.008	.078	.0017	.0019
%RSD	.46013	.08303	.49086	.04941	3.187
#1	24.883	10.082	15.861	3.3649	.0596
#2	25.046	10.094	15.972	3.3672	.0623

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.4067**	**.32307**	**.32831**	**11.269**	**.68639**
Stddev	.0001	.00109	.00055	.035	.00393
%RSD	.00441	.33596	.16854	.30818	.57215
#1	1.4068	.32231	.32870	11.244	.68362
#2	1.4067	.32384	.32792	11.293	.68917

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.1342**	**2.0620**	**1.6825**	**2.2130**	**.24873**
Stddev	.0043	.0097	.0033	.0028	.00235
%RSD	.10438	.47198	.19880	.12725	.94428
#1	4.1312	2.0551	1.6802	2.2110	.25039
#2	4.1373	2.0689	1.6849	2.2150	.24707

Sample Name: IC-4207541 Acquired: 8/28/2017 11:13:08 Type: Cal
Method: ICAP2 June 2017(v95) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.1368**	**16.771**	**.54196**	**.51341**	**.25175**
Stddev	.0005	.063	.00146	.00029	.00025
%RSD	.04182	.37781	.26969	.05646	.10014
#1	1.1371	16.726	.54299	.51362	.25157
#2	1.1365	16.816	.54092	.51321	.25193

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.3350**	**.21498**	**.09142**	**3.3259**	**.26548**
Stddev	.0015	.00022	.00047	.0184	.00068
%RSD	.04504	.10266	.51453	.55375	.25601
#1	3.3361	.21482	.09109	3.3129	.26597
#2	3.3340	.21513	.09176	3.3389	.26500

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**16.162**	**.56692**	**.10331**	**.51551**	**.11334**
Stddev	.031	.00243	.00037	.00321	.00089
%RSD	.19305	.42820	.35755	.62337	.78826
#1	16.140	.56520	.10305	.51323	.11270
#2	16.184	.56864	.10357	.51778	.11397

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3464.5**	**2549.2**	**19921.**	**4170.3**
Stddev	7.1	7.5	18.	33.2
%RSD	.20490	.29539	.09280	.79602
#1	3469.5	2554.5	19908.	4193.8
#2	3459.4	2543.9	19934.	4146.9

Sample Name: ICV-4204840 Acquired: 8/28/2017 11:16:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37397**	**17.901**	**.36910**	**.37883**	**.37747**
Stddev	.00331	.142	.00164	.00037	.00002
%RSD	.88614	.79319	.44297	.09882	.00572
#1	.37163	18.002	.36795	.37909	.37745
#2	.37631	17.801	.37026	.37856	.37748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37650**	**18.554**	**.37448**	**-.0165**	**.36593**
Stddev	.00380	.153	.00016	.0066	.00001
%RSD	1.0100	.82208	.04268	39.97	.00231
#1	.37918	18.662	.37459	-.0212	.36592
#2	.37381	18.446	.37437	-.0119	.36593
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37694**	**.38055**	**18.402**	**18.751**	**.36790**
Stddev	.00324	.00081	.086	.072	.00141
%RSD	.85916	.21363	.46912	.38448	.38225
#1	.37465	.38113	18.463	18.802	.36890
#2	.37923	.37998	18.341	18.700	.36691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4204840 Acquired: 8/28/2017 11:16:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.914**	**.38558**	**.37244**	**18.564**	**.37245**
Stddev	.016	.00018	.00002	.127	.00014
%RSD	.08255	.04691	.00537	.68529	.03817
#1	18.903	.38545	.37243	18.654	.37235
#2	18.925	.38571	.37246	18.474	.37255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36897**	**18.681**	**.37223**	**.36867**	**18.286**
Stddev	.00140	.001	.00029	.00112	.215
%RSD	.38070	.00583	.07838	.30495	1.1735
#1	.36798	18.682	.37202	.36787	18.438
#2	.36996	18.681	.37243	.36946	18.134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38328**	**.36654**	**.37242**	**.37672**	**.37321**
Stddev	.00048	.00383	.00158	.00114	.00200
%RSD	.12533	1.0442	.42466	.30359	.53684
#1	.38362	.36925	.37130	.37752	.37179
#2	.38294	.36384	.37354	.37591	.37463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4204840 Acquired: 8/28/2017 11:16:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.37651
Stddev	.00083
%RSD	.22132
#1	.37592
#2	.37710
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3747.1	2636.3	20631.	4198.4
Stddev	5.2	4.0	32.	43.6
%RSD	.13814	.15079	.15381	1.0384
#1	3743.4	2633.5	20654.	4167.5
#2	3750.7	2639.1	20609.	4229.2

Sample Name: ICB-4204839 Acquired: 8/28/2017 11:19:57 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.01231**	**-.00082**	**.00079**	**-.00007**
Stddev	.00027	.00695	.00026	.00012	.00004
%RSD	118.68	56.490	31.412	15.202	52.668
#1	.00004	-.01723	-.00064	.00071	-.00010
#2	.00041	-.00739	-.00100	.00088	-.00005
Check ?	None	None	None	None	None
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00258**	**-.00016**	**.0145**	**.00007**
Stddev	.00001	.00035	.00005	.0038	.00005
%RSD	7.4766	13.631	30.073	26.41	61.967
#1	-.00012	.00233	-.00013	.0172	.00004
#2	-.00011	.00282	-.00020	.0118	.00011
Check ?	None	None	None	None	None
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00017**	**-.00382**	**.02016**	**-.00119**
Stddev	.00012	.00061	.00270	.02536	.00093
%RSD	42.209	352.62	70.557	125.80	77.802
#1	.00019	.00061	-.00573	.03809	-.00185
#2	.00036	-.00026	-.00191	.00223	-.00054
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICB-4204839 Acquired: 8/28/2017 11:19:57 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00001**	**-.00033**	**-.00540**	**.00000**
Stddev	.00653	.00009	.00007	.00047	.00022
%RSD	3800.2	600.75	21.258	8.6832	4746.0
#1	.00444	.00005	-.00028	-.00574	-.00015
#2	-.00479	-.00008	-.00038	-.00507	.00016
Check ?	None	None	None	None	None
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**-.00334**	**-.00012**	**.00157**	**-.00499**
Stddev	.00046	.00025	.00065	.00395	.00423
%RSD	56.235	7.4152	520.01	251.33	84.824
#1	-.00115	-.00351	-.00058	.00436	-.00798
#2	-.00050	-.00316	.00033	-.00122	-.00200
Check ?	None	None	None	None	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00000**	**.00044**	**-.00101**	**.00016**
Stddev	.00022	.00004	.00003	.00000	.00021
%RSD	125.89	1842.4	7.4810	.38958	128.68
#1	-.00034	-.00003	.00046	-.00102	.00001
#2	-.00002	.00003	.00041	-.00101	.00031
Check ?	None	None	None	None	None
Value					
Range					

Sample Name: ICB-4204839 Acquired: 8/28/2017 11:19:57 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00053
Stddev	.00005
%RSD	9.5741
#1	.00056
#2	.00049
Check ?	None
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4132.4	2687.2	21355.	4234.7
Stddev	5.8	8.5	57.	3.0
%RSD	.14144	.31735	.26701	.07032
#1	4136.5	2693.2	21395.	4236.8
#2	4128.3	2681.2	21314.	4232.6

Sample Name: ICVL-4195955 Acquired: 8/28/2017 11:23:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00603**	**.17953**	**.01601**	**.02063**	**.00202**
Stddev	.00063	.00200	.00021	.00019	.00002
%RSD	10.434	1.1140	1.2840	.91901	1.2236
#1	.00558	.18094	.01615	.02049	.00203
#2	.00647	.17811	.01586	.02076	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.49900**	**.00198**	**-.0115**	**.00382**
Stddev	.00004	.00269	.00008	.0060	.00007
%RSD	1.7853	.53907	4.2115	52.36	1.7968
#1	.00205	.50091	.00204	-.0157	.00387
#2	.00211	.49710	.00192	-.0072	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.01081**	**.04213**	**.47855**	**.02753**
Stddev	.00021	.00091	.00000	.01380	.00029
%RSD	4.7316	8.4047	.01070	2.8846	1.0457
#1	.00463	.01016	.04213	.48831	.02732
#2	.00433	.01145	.04212	.46879	.02773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4195955 Acquired: 8/28/2017 11:23:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20188**	**.00303**	**.00973**	**.99494**	**.00979**
Stddev	.00529	.00001	.00028	.00429	.00011
%RSD	2.6201	.27089	2.8314	.43112	1.1473
#1	.20562	.00304	.00993	.99191	.00971
#2	.19814	.00302	.00954	.99797	.00987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00853**	**.19425**	**.02088**	**.02438**	**.50065**
Stddev	.00054	.00102	.00094	.00098	.00297
%RSD	6.3637	.52584	4.4855	4.0256	.59338
#1	.00892	.19353	.02154	.02368	.49855
#2	.00815	.19497	.02022	.02507	.50275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00943**	**.00493**	**.00498**	**.01912**	**.00486**
Stddev	.00024	.00008	.00072	.00073	.00037
%RSD	2.5029	1.5393	14.549	3.8105	7.6430
#1	.00960	.00487	.00549	.01860	.00460
#2	.00926	.00498	.00446	.01963	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4195955 Acquired: 8/28/2017 11:23:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01101
Stddev	.00043
%RSD	3.9222
#1	.01071
#2	.01132
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4103.5	2689.4	21345.	4228.0
Stddev	11.3	3.5	60.	25.4
%RSD	.27417	.12882	.28059	.60026
#1	4111.4	2691.9	21388.	4210.0
#2	4095.5	2687.0	21303.	4245.9

Sample Name: ICSA-4090634 Acquired: 8/28/2017 11:27:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00114**	**489.55**	**.00027**	**-.00175**	**.00060**
Stddev	.00091	.76	.00023	.00023	.00002
%RSD	79.912	.15478	84.791	13.394	3.4397
#1	-.00179	489.02	.00044	-.00192	.00058
#2	-.00050	490.09	.00011	-.00158	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**469.01**	**-.00039**	**.0262**	**-.00101**
Stddev	.00002	5.53	.00018	.0029	.00036
%RSD	11.284	1.1799	45.474	10.95	36.101
#1	-.00024	472.93	-.00026	.0242	-.00075
#2	-.00020	465.10	-.00051	.0283	-.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**-.00338**	**189.61**	**.00907**	**-.01407**
Stddev	.00081	.00053	.21	.06562	.00158
%RSD	97.897	15.805	.11074	723.74	11.231
#1	-.00026	-.00301	189.76	-.03733	-.01295
#2	-.00141	-.00376	189.46	.05547	-.01518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 8/28/2017 11:27:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**526.29**	**-.00023**	**-.00200**	**.03817**	**-.00222**
Stddev	.84	.00007	.00031	.00540	.00023
%RSD	.16031	28.726	15.324	14.160	10.388
#1	526.89	-.00028	-.00178	.03435	-.00238
#2	525.69	-.00019	-.00221	.04199	-.00205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00297**	**.03540**	**-.01012**	**-.00235**	**.01982**
Stddev	.00253	.00253	.00186	.00177	.00977
%RSD	85.351	7.1472	18.346	75.535	49.288
#1	-.00476	.03719	-.01144	-.00360	.02672
#2	-.00118	.03361	-.00881	-.00109	.01291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00311**	**.03118**	**-.00059**	**-.00373**	**.00161**
Stddev	.00121	.00007	.00078	.00109	.00022
%RSD	38.813	.22317	132.07	29.294	13.558
#1	.00396	.03113	-.00114	-.00296	.00145
#2	.00226	.03123	-.00004	-.00451	.00176
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 8/28/2017 11:27:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00663
Stddev	.00039
%RSD	5.8495
#1	.00690
#2	.00635
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2918.9	2356.1	18070.	4112.7
Stddev	.9	2.5	2.	8.2
%RSD	.02923	.10422	.01030	.19847
#1	2919.5	2357.8	18069.	4107.0
#2	2918.3	2354.3	18071.	4118.5

Sample Name: ICSAB-4167458 Acquired: 8/28/2017 11:30:52 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22894**	**525.33**	**.11040**	**.00240**	**.50442**
Stddev	.00438	.85	.00116	.00056	.00126
%RSD	1.9138	.16085	1.0504	23.288	.25017
#1	.23204	524.73	.11122	.00201	.50532
#2	.22584	525.92	.10958	.00280	.50353
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51840**	**485.64**	**1.0395**	**-.0007**	**.50177**
Stddev	.00054	1.69	.0004	.0074	.00012
%RSD	.10422	.34774	.04049	1049.	.02328
#1	.51801	484.45	1.0398	.0045	.50185
#2	.51878	486.84	1.0392	-.0059	.50169
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49231**	**.53559**	**97.866**	**.00973**	**.51157**
Stddev	.00581	.00025	.368	.00045	.00189
%RSD	1.1794	.04727	.37571	4.5956	.36923
#1	.49641	.53541	97.606	.00941	.51291
#2	.48820	.53577	98.126	.01004	.51024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-4167458 Acquired: 8/28/2017 11:30:52 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**543.44**	**.51135**	**-.00108**	**.16404**	**.99555**
Stddev	3.08	.00195	.00001	.00773	.00134
%RSD	.56758	.38232	.46818	4.7107	.13438
#1	545.62	.51273	-.00108	.15858	.99461
#2	541.26	.50996	-.00108	.16951	.99650
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04808**	**1.0714**	**.61366**	**.05236**	**1.0226**
Stddev	.00009	.0014	.00248	.00618	.0087
%RSD	.18383	.13061	.40419	11.812	.85419
#1	.04802	1.0724	.61191	.04798	1.0164
#2	.04815	1.0704	.61542	.05673	1.0288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00310**	**.49826**	**.00069**	**.09766**	**.51721**
Stddev	.00077	.00030	.00024	.00270	.00413
%RSD	24.947	.06013	35.388	2.7662	.79924
#1	.00255	.49805	.00086	.09957	.52013
#2	.00365	.49847	.00052	.09575	.51428
Check ?	None	None	None	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICSAB-4167458 Acquired: 8/28/2017 11:30:52 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.95297
Stddev	.01155
%RSD	1.2117
#1	.96114
#2	.94481
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2911.7	2337.3	17910.	4091.0
Stddev	3.2	4.0	139.	2.1
%RSD	.11135	.17097	.77492	.05211
#1	2909.4	2334.4	17812.	4089.5
#2	2914.0	2340.1	18008.	4092.5

Sample Name: ICEX1 Acquired: 8/28/2017 11:34:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.04412**	**5.0340**	**-.00031**	**-.00007**
Stddev	.00034	.00816	.0094	.00030	.00001
%RSD	47.805	18.485	.18607	97.374	13.302
#1	.00097	.04989	5.0406	-.00053	-.00007
#2	.00048	.03836	5.0274	-.00010	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.02752**	**-.00011**	**-.0055**	**.00014**
Stddev	.00011	.00221	.00041	.0038	.00004
%RSD	38.138	8.0395	382.11	69.08	26.429
#1	.00021	.02596	.00018	-.0081	.00017
#2	.00037	.02908	-.00040	-.0028	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**26.832**	**-.00125**	**.00945**	**-.00228**
Stddev	.00011	.021	.00001	.00116	.00019
%RSD	60.781	.07996	.66323	12.254	8.3473
#1	-.00026	26.848	-.00126	.01027	-.00241
#2	-.00011	26.817	-.00125	.00863	-.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/28/2017 11:34:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00350**	**.00084**	**-.00128**	**.02431**	**.00005**
Stddev	.00629	.00004	.00004	.00372	.00030
%RSD	179.56	5.2618	3.4659	15.282	554.20
#1	-.00795	.00081	-.00131	.02694	.00027
#2	.00094	.00087	-.00124	.02169	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**.00477**	**.00040**	**.00129**	**.02017**
Stddev	.00000	.00122	.00087	.00050	.01032
%RSD	.03535	25.523	216.08	38.516	51.194
#1	-.00073	.00564	.00101	.00094	.02747
#2	-.00073	.00391	-.00021	.00164	.01287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00001**	**-.00027**	**.01009**	**5.1242**
Stddev	.00023	.00009	.00038	.00013	.0355
%RSD	256.45	1729.2	139.45	1.2847	.69213
#1	-.00007	-.00006	-.00000	.01000	5.1493
#2	.00025	.00007	-.00055	.01018	5.0992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/28/2017 11:34:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00400**
Stddev	.00032
%RSD	7.9791
#1	.00377
#2	.00422
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4050.9**	**2648.6**	**21254.**	**4165.7**
Stddev	3.7	.1	123.	24.7
%RSD	.09033	.00318	.57805	.59195
#1	4053.5	2648.6	21167.	4148.2
#2	4048.3	2648.7	21341.	4183.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.385%	98.933%	100.30%	99.498%
Range				

Sample Name: ICEX2 Acquired: 8/28/2017 11:38:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**.06821**	**.00349**	**.01059**	**-.00007**
Stddev	.00003	.00445	.00008	.00042	.00003
%RSD	2.4988	6.5268	2.2116	4.0137	41.491
#1	-.00115	.06506	.00355	.01089	-.00009
#2	-.00111	.07135	.00344	.01029	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.02172**	**.00025**	**-.0184**	**.00210**
Stddev	.00003	.00030	.00005	.0102	.00020
%RSD	7.4560	1.3718	20.812	55.48	9.5025
#1	-.00046	.02151	.00028	-.0256	.00196
#2	-.00041	.02193	.00021	-.0112	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00831**	**-.00276**	**-.01117**	**-.00182**
Stddev	.00020	.00122	.00008	.00698	.00123
%RSD	172.44	14.655	2.8919	62.492	67.470
#1	.00025	-.00917	-.00270	-.01611	-.00270
#2	-.00003	-.00745	-.00282	-.00624	-.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/28/2017 11:38:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01033**	**.00288**	**-.00039**	**.02455**	**.00457**
Stddev	.00403	.00002	.00003	.00468	.00004
%RSD	39.024	.61465	6.6047	19.064	.87671
#1	.01318	.00290	-.00041	.02124	.00454
#2	.00748	.00287	-.00038	.02786	.00459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00427**	**.00784**	**-.00122**	**.33870**
Stddev	.00046	.00051	.00065	.00319	.02316
%RSD	120.45	12.048	8.2905	261.12	6.8380
#1	.00071	.00391	.00738	-.00348	.32232
#2	.00006	.00463	.00830	.00103	.35508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00436**	**.00006**	**19.989**	**20.706**	**-.00350**
Stddev	.00010	.00006	.027	.037	.00033
%RSD	2.3909	103.54	.13577	.18086	9.4709
#1	-.00429	.00002	19.970	20.679	-.00373
#2	-.00444	.00010	20.008	20.732	-.00326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/28/2017 11:38:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00456**
Stddev	.00023
%RSD	5.1008
#1	.00472
#2	.00439
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4050.8**	**2672.6**	**21280.**	**4211.7**
Stddev	4.9	3.5	76.	4.9
%RSD	.12057	.13126	.35665	.11634
#1	4054.2	2675.1	21334.	4215.2
#2	4047.3	2670.1	21226.	4208.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.382%	99.828%	100.42%	100.60%
Range				

Sample Name: ICEX3 Acquired: 8/28/2017 11:41:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.02599**	**.00444**	**-.00054**	**-.00000**
Stddev	.00055	.01456	.00211	.00039	.00001
%RSD	60.223	56.019	47.627	72.085	258.87
#1	.00052	.01569	.00593	-.00082	.00000
#2	.00130	.03628	.00294	-.00027	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00962**	**-.00000**	**-.1871**	**-.00002**
Stddev	.00003	.00258	.00027	.0136	.00009
%RSD	18.629	26.786	7118.3	7.285	357.17
#1	-.00016	.00780	-.00019	-.1774	.00004
#2	-.00021	.01144	.00019	-.1967	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00136**	**.00037**	**.02501**	**-.00063**
Stddev	.00071	.00029	.00181	.01660	.00122
%RSD	4156.6	21.322	487.18	66.349	192.38
#1	-.00049	.00115	.00165	.01328	-.00149
#2	.00052	.00156	-.00091	.03675	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/28/2017 11:41:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.12223**	**51.393**	**-.00288**	**.01113**	**.00072**
Stddev	.00423	.009	.00026	.00823	.00001
%RSD	3.4613	.01734	9.1540	73.958	1.4548
#1	-.12522	51.386	-.00306	.00531	.00073
#2	-.11923	51.399	-.00269	.01695	.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00467**	**101.75**	**-.00329**	**-.00931**	**-.00981**
Stddev	.00087	.02	.00016	.00482	.00008
%RSD	18.629	.02067	4.8767	51.748	.85497
#1	.00406	101.76	-.00341	-.00591	-.00975
#2	.00529	101.73	-.00318	-.01272	-.00987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00009**	**.00141**	**.00223**	**-.00049**
Stddev	.00028	.00006	.00009	.00092	.00004
%RSD	70.711	67.709	6.0219	40.980	7.2669
#1	-.00020	-.00014	.00135	.00288	-.00047
#2	-.00060	-.00005	.00147	.00159	-.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/28/2017 11:41:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00647
Stddev	.00007
%RSD	1.1319
#1	.00641
#2	.00652
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4027.9	2672.7	21203.	4235.3
Stddev	5.2	1.4	86.	18.5
%RSD	.12837	.05153	.40327	.43697
#1	4031.5	2673.7	21264.	4248.4
#2	4024.2	2671.7	21143.	4222.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.825%	99.831%	100.06%	101.16%
Range				

Sample Name: ICEX4 Acquired: 8/28/2017 11:49:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**-.07276**	**.00278**	**-.00241**	**-.00008**
Stddev	.00088	.00307	.00001	.00004	.00000
%RSD	183.40	4.2251	.30711	1.7335	4.3210
#1	-.00014	-.07493	.00277	-.00238	-.00008
#2	.00110	-.07058	.00278	-.00244	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00467**	**.00028**	**.0216**	**18.691**
Stddev	.00003	.00109	.00004	.0369	.010
%RSD	17.618	23.342	15.374	170.6	.05565
#1	-.00020	.00544	.00031	.0477	18.698
#2	-.00016	.00390	.00025	-.0045	18.683
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.473**	**.00738**	**-.00730**	**.00960**	**-.00012**
Stddev	.032	.00029	.00042	.02037	.00010
%RSD	.30761	3.9491	5.7209	212.26	84.914
#1	10.450	.00718	-.00760	.02400	-.00019
#2	10.496	.00759	-.00701	-.00481	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/28/2017 11:49:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01823**	**.00050**	**-.00010**	**-.00566**	**-.00431**
Stddev	.00181	.00005	.00016	.01589	.00045
%RSD	9.9383	9.9132	158.21	280.63	10.334
#1	-.01695	.00053	-.00021	-.01690	-.00400
#2	-.01951	.00046	.00001	.00557	-.00463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00258**	**.00696**	**.01444**	**.00021**	**-.05575**
Stddev	.00004	.00084	.00066	.00079	.01293
%RSD	1.6147	12.129	4.5574	367.67	23.194
#1	-.00255	.00636	.01491	.00077	-.06489
#2	-.00261	.00756	.01398	-.00034	-.04660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00005**	**-.00117**	**-.00145**	**-.00043**
Stddev	.00043	.00007	.00013	.00057	.00012
%RSD	309.13	138.94	10.805	39.247	29.243
#1	-.00044	-.00000	-.00126	-.00105	-.00052
#2	.00016	-.00011	-.00108	-.00185	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/28/2017 11:49:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00154
Stddev	.00069
%RSD	45.064
#1	.00203
#2	.00105
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4087.6	2653.6	21278.	4226.0
Stddev	5.7	6.1	65.	11.6
%RSD	.13844	.22965	.30516	.27487
#1	4091.6	2657.9	21324.	4217.8
#2	4083.6	2649.3	21232.	4234.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.275%	99.117%	100.41%	100.94%
Range				

Sample Name: ICEX5 Acquired: 8/28/2017 11:52:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.05939**	**.00912**	**.00916**	**-.00015**
Stddev	.00031	.01760	.00191	.00023	.00003
%RSD	179.71	29.639	20.952	2.4575	20.203
#1	.00039	.04694	.00777	.00932	-.00017
#2	-.00005	.07183	.01048	.00900	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.02124**	**-.00019**	**.0111**	**-.00045**
Stddev	.00009	.00227	.00008	.0217	.00019
%RSD	28.224	10.709	41.709	194.7	42.662
#1	-.00026	.01964	-.00013	.0265	-.00031
#2	-.00039	.02285	-.00024	-.0042	-.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.00235**	**-.00504**	**-.00030**	**-.00173**
Stddev	.00028	.00014	.00081	.00496	.00085
%RSD	41.054	6.0311	15.994	1627.8	49.462
#1	-.00048	-.00225	-.00447	.00320	-.00112
#2	-.00087	-.00245	-.00561	-.00381	-.00233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/28/2017 11:52:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.08311**	**.00113**	**5.1060**	**.02708**	**.00028**
Stddev	.00135	.00002	.0066	.00422	.00018
%RSD	1.6211	1.4548	.13015	15.579	65.515
#1	-.08216	.00112	5.1013	.02409	.00041
#2	-.08406	.00114	5.1107	.03006	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**-.01092**	**.00230**	**.00449**	**-.02402**
Stddev	.00024	.00013	.00050	.00284	.00444
%RSD	32.903	1.2024	21.569	63.210	18.485
#1	-.00088	-.01101	.00195	.00248	-.02716
#2	-.00055	-.01083	.00265	.00650	-.02088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00006**	**.00083**	**-.00159**	**-.00237**
Stddev	.00043	.00009	.00045	.00017	.00088
%RSD	146.32	150.90	53.884	10.777	37.206
#1	.00001	.00013	.00051	-.00171	-.00174
#2	-.00060	-.00000	.00114	-.00147	-.00299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/28/2017 11:52:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00312
Stddev	.00028
%RSD	8.9543
#1	.00332
#2	.00293
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4069.9	2663.9	21287.	4209.2
Stddev	1.5	1.3	52.	14.0
%RSD	.03568	.04999	.24433	.33273
#1	4070.9	2664.9	21323.	4219.1
#2	4068.9	2663.0	21250.	4199.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.847%	99.504%	100.45%	100.54%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 11:56:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50607**	**24.068**	**.49971**	**.50312**	**.49782**
Stddev	.00169	.019	.00219	.00026	.00303
%RSD	.33375	.08078	.43831	.05109	.60926
#1	.50726	24.082	.50126	.50330	.49568
#2	.50488	24.055	.49817	.50294	.49997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50091**	**24.726**	**.50151**	**-.0124**	**.49008**
Stddev	.00020	.009	.00044	.0555	.00022
%RSD	.04053	.03500	.08831	448.2	.04424
#1	.50105	24.720	.50182	.0269	.49024
#2	.50077	24.732	.50119	-.0516	.48993
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50928**	**.50609**	**24.358**	**24.822**	**.49276**
Stddev	.00001	.00225	.093	.060	.00109
%RSD	.00280	.44554	.38139	.24373	.22078
#1	.50929	.50769	24.424	24.865	.49199
#2	.50927	.50450	24.293	24.780	.49353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 11:56:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.067**	**.51183**	**.49730**	**24.826**	**.49774**
Stddev	.015	.00058	.00038	.061	.00111
%RSD	.06032	.11302	.07557	.24476	.22212
#1	25.078	.51142	.49756	24.869	.49696
#2	25.056	.51224	.49703	24.784	.49852
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49470**	**25.098**	**.49666**	**.49551**	**24.050**
Stddev	.00023	.010	.00073	.00156	.044
%RSD	.04617	.03903	.14656	.31546	.18341
#1	.49454	25.091	.49718	.49662	24.081
#2	.49486	25.105	.49615	.49441	24.019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51106**	**.49389**	**.49715**	**.50174**	**.50242**
Stddev	.00111	.00010	.00074	.00515	.00031
%RSD	.21658	.02118	.14867	1.0266	.06087
#1	.51028	.49396	.49663	.50538	.50264
#2	.51184	.49381	.49768	.49810	.50220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 11:56:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50390
Stddev	.00048
%RSD	.09555
#1	.50424
#2	.50356
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3686.4	2613.9	20356.	4222.2
Stddev	.0	1.6	5.	13.3
%RSD	.00058	.06127	.02641	.31416
#1	3686.4	2612.8	20360.	4212.8
#2	3686.4	2615.1	20352.	4231.5

Sample Name: CCB-4204839 Acquired: 8/28/2017 11:59:45 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.01134**	**-.00025**	**-.00013**	**-.00012**
Stddev	.00081	.01390	.00157	.00000	.00000
%RSD	217.55	122.56	629.38	1.6725	1.6327
#1	.00020	-.02117	-.00136	-.00013	-.00011
#2	-.00095	-.00151	.00086	-.00013	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00330**	**-.00006**	**.0089**	**-.00001**
Stddev	.00012	.00115	.00008	.0270	.00022
%RSD	69.508	34.923	120.18	303.2	3337.7
#1	-.00026	-.00412	-.00001	.0280	.00015
#2	-.00009	-.00249	-.00012	-.0102	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**-.00022**	**-.00666**	**.03346**	**-.00122**
Stddev	.00032	.00078	.00133	.02547	.00079
%RSD	92.778	356.90	19.885	76.133	64.919
#1	-.00012	.00033	-.00760	.01545	-.00066
#2	-.00057	-.00077	-.00573	.05147	-.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 11:59:45 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00337**	**-.00001**	**-.00001**	**-.00660**	**-.00006**
Stddev	.00079	.00010	.00006	.00784	.00040
%RSD	23.529	826.18	631.44	118.72	678.30
#1	-.00281	.00006	.00003	-.00106	.00022
#2	-.00393	-.00008	-.00005	-.01215	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	**-.00335**	**-.00118**	**.00263**	**-.00909**
Stddev	.00044	.00061	.00066	.00169	.01904
%RSD	53.901	18.199	55.759	64.117	209.51
#1	-.00050	-.00379	-.00071	.00144	-.02255
#2	-.00113	-.00292	-.00164	.00383	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**-.00003**	**-.00014**	**-.00092**	**.00003**
Stddev	.00006	.00003	.00007	.00018	.00004
%RSD	11.199	82.886	48.115	19.613	139.65
#1	-.00053	-.00001	-.00019	-.00079	.00006
#2	-.00062	-.00005	-.00009	-.00105	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 11:59:45 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00013
Stddev	.00047
%RSD	356.78
#1	-.00020
#2	.00047
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4121.4	2677.6	21315.	4190.1
Stddev	5.1	2.8	23.	13.7
%RSD	.12486	.10581	.10735	.32712
#1	4125.0	2679.6	21331.	4180.4
#2	4117.7	2675.6	21299.	4199.8

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:03:24 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00651**	**.19821**	**.01500**	**.02006**	**.00200**
Stddev	.00082	.02545	.00390	.00006	.00002
%RSD	12.622	12.839	26.005	.30840	.75703
#1	.00593	.21621	.01224	.02002	.00201
#2	.00709	.18022	.01776	.02011	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49831**	**.00197**	**-.0051**	**.00376**
Stddev	.00002	.00519	.00016	.0053	.00011
%RSD	1.1542	1.0417	8.1292	102.6	2.9818
#1	.00194	.49464	.00208	-.0014	.00368
#2	.00191	.50198	.00186	-.0089	.00384
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00356**	**.01036**	**.04187**	**.54801**	**.02851**
Stddev	.00006	.00123	.00252	.05816	.00141
%RSD	1.8044	11.900	6.0095	10.613	4.9513
#1	.00352	.00949	.04009	.50688	.02751
#2	.00361	.01124	.04365	.58913	.02951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:03:24 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20290**	**.00300**	**.00991**	**1.0054**	**.00994**
Stddev	.00208	.00011	.00018	.0126	.00033
%RSD	1.0262	3.8220	1.8432	1.2519	3.3691
#1	.20437	.00309	.00978	.99654	.00970
#2	.20143	.00292	.01004	1.0143	.01017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00956**	**.19234**	**.01968**	**.02697**	**.48921**
Stddev	.00023	.00023	.00157	.00153	.01341
%RSD	2.4093	.11947	7.9749	5.6807	2.7407
#1	.00940	.19217	.01857	.02806	.47973
#2	.00972	.19250	.02078	.02589	.49869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00899**	**.00494**	**.00450**	**.01850**	**.00519**
Stddev	.00016	.00007	.00003	.00070	.00025
%RSD	1.7549	1.5138	.56652	3.7870	4.8000
#1	.00888	.00489	.00448	.01801	.00536
#2	.00911	.00500	.00452	.01900	.00501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:03:24 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01052**
Stddev	.00029
%RSD	2.8022
#1	.01031
#2	.01073
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4099.2**	**2675.1**	**21277.**	**4198.5**
Stddev	7.4	3.2	25.	11.9
%RSD	.18168	.12017	.11750	.28463
#1	4104.5	2677.4	21260.	4207.0
#2	4093.9	2672.8	21295.	4190.1

Sample Name: MB 480-373710/1-A Acquired: 8/28/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.04663**	**.00071**	**.00089**	**.00005**
Stddev	.00037	.00332	.00028	.00008	.00001
%RSD	71.919	7.1226	39.634	8.5335	11.071
#1	.00025	.04898	.00051	.00084	.00006
#2	.00078	.04428	.00090	.00095	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.04675**	**-.00009**	**.0053**	**-.00010**
Stddev	.00003	.00018	.00007	.0113	.00012
%RSD	12.370	.37572	77.256	214.9	117.78
#1	-.00022	.04663	-.00004	.0133	-.00019
#2	-.00026	.04687	-.00014	-.0027	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**.00011**	**.02449**	**.05735**	**.00021**
Stddev	.00007	.00077	.00268	.00728	.00076
%RSD	3.3433	707.37	10.930	12.700	355.15
#1	.00208	.00065	.02638	.06250	-.00032
#2	.00218	-.00043	.02260	.05220	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373710/1-A Acquired: 8/28/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00183**	**.00113**	**-.00017**	**.12021**	**.00049**
Stddev	.00269	.00009	.00005	.00134	.00018
%RSD	146.87	7.6205	29.488	1.1116	37.601
#1	-.00373	.00107	-.00020	.12115	.00062
#2	.00007	.00119	-.00013	.11926	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.06869**	**.00071**	**.00362**	**.26887**
Stddev	.00110	.00192	.00185	.00545	.02281
%RSD	1572.1	2.8022	260.35	150.49	8.4828
#1	-.00085	.07005	.00202	.00748	.28499
#2	.00071	.06733	-.00060	-.00023	.25274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.04790**	**.00004**	**.00094**	**-.00247**	**.00060**
Stddev	.00025	.00005	.00015	.00016	.00013
%RSD	.51667	128.09	16.448	6.2906	22.292
#1	.04807	.00007	.00104	-.00258	.00050
#2	.04772	.00000	.00083	-.00236	.00069
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000				
Low Limit	-.01000				

Sample Name: MB 480-373710/1-A Acquired: 8/28/2017 12:07:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00321
Stddev	.00006
%RSD	1.9802
#1	.00316
#2	.00325
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4106.6	2656.5	21425.	4277.1
Stddev	1.4	2.9	13.	6.8
%RSD	.03477	.10749	.05950	.15916
#1	4105.6	2654.5	21416.	4272.3
#2	4107.6	2658.6	21434.	4281.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.738%	99.228%	101.10%	102.16%
Range				

Sample Name: 123104-A-1-A@5 Acquired: 8/28/2017 12:10:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**9.2980**	**.00637**	**.05474**	**.02013**
Stddev	.00030	.0038	.00044	.00027	.00005
%RSD	107.79	.04071	6.8345	.50164	.24412
#1	-.00049	9.3006	.00667	.05455	.02017
#2	-.00007	9.2953	.00606	.05494	.02010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**312.26**	**.00060**	**.0694**	**.00384**
Stddev	.00009	.98	.00005	.0158	.00014
%RSD	22.572	.31544	8.6436	22.80	3.7369
#1	.00032	311.56	.00057	.0806	.00394
#2	.00044	312.95	.00064	.0582	.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01244**	**.00446**	**12.153**	**5.3294**	**.00907**
Stddev	.00059	.00040	.008	.1054	.00050
%RSD	4.7222	8.9973	.06952	1.9771	5.5000
#1	.01202	.00475	12.147	5.4039	.00871
#2	.01285	.00418	12.159	5.2549	.00942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-A@5 Acquired: 8/28/2017 12:10:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**192.35**	**.93993**	**-.00037**	**.63559**	**.00880**
Stddev	.27	.00307	.00018	.00136	.00028
%RSD	.13778	.32679	50.007	.21367	3.1828
#1	192.54	.94211	-.00049	.63655	.00860
#2	192.16	.93776	-.00024	.63463	.00900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02805**	**6.5761**	**-.00173**	**-.00097**	**2.6875**
Stddev	.00041	.0014	.00127	.00063	.1213
%RSD	1.4660	.02157	73.002	64.661	4.5146
#1	.02776	6.5751	-.00084	-.00141	2.7733
#2	.02834	6.5771	-.00263	-.00053	2.6017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01147**	**.15458**	**.07827**	**-.00102**	**.01282**
Stddev	.00045	.00052	.00217	.00021	.00028
%RSD	3.9236	.33937	2.7762	20.756	2.1633
#1	.01115	.15421	.07673	-.00087	.01302
#2	.01179	.15495	.07980	-.00117	.01263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-A@5 Acquired: 8/28/2017 12:10:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07660
Stddev	.00113
%RSD	1.4762
#1	.07740
#2	.07580
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3276.5	2465.3	19393.	4181.5
Stddev	6.4	4.1	60.	9.8
%RSD	.19400	.16461	.30787	.23477
#1	3272.1	2462.5	19435.	4188.5
#2	3281.0	2468.2	19351.	4174.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.578%	92.086%	91.516%	99.877%
Range				

Sample Name: 123104-A-1-Asd@25 Acquired: 8/28/2017 12:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**1.8709**	**.00050**	**.01095**	**.00400**
Stddev	.00040	.0172	.00056	.00019	.00001
%RSD	168.77	.91956	112.51	1.7362	.15747
#1	-.00005	1.8588	.00089	.01082	.00400
#2	.00053	1.8831	.00010	.01109	.00401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**63.378**	**.00008**	**.0223**	**.00075**
Stddev	.00005	.009	.00016	.0120	.00014
%RSD	133.44	.01449	184.96	53.95	18.644
#1	-.00007	63.371	-.00003	.0138	.00065
#2	-.00000	63.384	.00020	.0308	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00223**	**.00029**	**2.4840**	**1.0256**	**.00042**
Stddev	.00074	.00060	.0083	.0275	.00166
%RSD	33.113	203.78	.33395	2.6794	390.20
#1	.00171	.00072	2.4782	1.0061	.00160
#2	.00276	-.00013	2.4899	1.0450	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-Asd@25 Acquired: 8/28/2017 12:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.145**	**.19164**	**-.00027**	**.11678**	**.00115**
Stddev	.034	.00023	.00022	.00148	.00019
%RSD	.09175	.11858	79.892	1.2637	16.902
#1	37.121	.19147	-.00042	.11783	.00101
#2	37.169	.19180	-.00012	.11574	.00128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00376**	**1.2666**	**-.00125**	**.00128**	**.51412**
Stddev	.00173	.0079	.00135	.00325	.01472
%RSD	46.144	.62195	108.29	254.00	2.8640
#1	.00253	1.2610	-.00221	-.00102	.52453
#2	.00498	1.2721	-.00029	.00358	.50371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00234**	**.03124**	**.01576**	**-.00053**	**.00284**
Stddev	.00043	.00009	.00084	.00266	.00023
%RSD	18.381	.28739	5.3469	502.98	8.2397
#1	.00204	.03131	.01517	.00135	.00300
#2	.00265	.03118	.01636	-.00241	.00267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-Asd@25 Acquired: 8/28/2017 12:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01628**
Stddev	.00091
%RSD	5.5895
#1	.01564
#2	.01692
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3737.4**	**2590.3**	**20465.**	**4220.9**
Stddev	2.5	.5	24.	10.0
%RSD	.06788	.01831	.11589	.23790
#1	3735.6	2589.9	20448.	4228.0
#2	3739.2	2590.6	20482.	4213.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.771%	96.752%	96.574%	100.82%
Range				

Sample Name: 123104-A-1-Apds@5 Acquired: 8/28/2017 12:17:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04945**	**19.113**	**.20210**	**.25287**	**.21444**
Stddev	.00063	.023	.00193	.00032	.00087
%RSD	1.2737	.11852	.95296	.12748	.40538
#1	.04989	19.097	.20073	.25309	.21505
#2	.04900	19.129	.20346	.25264	.21383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19546**	**303.90**	**.20212**	**.0079**	**.19453**
Stddev	.00094	.04	.00016	.0069	.00035
%RSD	.48163	.01180	.08032	87.70	.18160
#1	.19613	303.87	.20200	.0128	.19478
#2	.19480	303.92	.20223	.0030	.19428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20490**	**.20093**	**21.094**	**15.003**	**.20962**
Stddev	.00116	.00000	.048	.041	.00125
%RSD	.56812	.00247	.22582	.27568	.59716
#1	.20408	.20093	21.127	15.032	.20873
#2	.20572	.20092	21.060	14.974	.21050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-Apds@5 Acquired: 8/28/2017 12:17:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**190.84**	**1.0775**	**.18993**	**10.497**	**.20131**
Stddev	.77	.0026	.00041	.043	.00118
%RSD	.40340	.24141	.21342	.41318	.58786
#1	191.38	1.0793	.19022	10.528	.20215
#2	190.29	1.0757	.18965	10.466	.20047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22781**	**6.2285**	**.20005**	**.19560**	**13.583**
Stddev	.00075	.0039	.00045	.00092	.082
%RSD	.33132	.06298	.22421	.47092	.60204
#1	.22835	6.2313	.19974	.19495	13.641
#2	.22728	6.2257	.20037	.19625	13.525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22128**	**.34257**	**.28636**	**.19466**	**.21135**
Stddev	.00028	.00058	.00969	.00077	.00131
%RSD	.12560	.17006	3.3847	.39446	.62190
#1	.22108	.34298	.29322	.19521	.21228
#2	.22147	.34216	.27951	.19412	.21042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-Apds@5 Acquired: 8/28/2017 12:17:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.26173**
Stddev	.00047
%RSD	.17823
#1	.26140
#2	.26206
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3227.2**	**2451.2**	**19179.**	**4112.5**
Stddev	5.7	5.5	8.	3.9
%RSD	.17773	.22280	.04107	.09540
#1	3231.2	2455.1	19173.	4109.7
#2	3223.1	2447.3	19185.	4115.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.378%	91.559%	90.505%	98.228%
Range				

Sample Name: 123104-A-1-B MS@5 Acquired: 8/28/2017 12:21:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02386**	**34.194**	**.10863**	**.24202**	**.16358**
Stddev	.00048	.098	.00592	.00372	.00111
%RSD	2.0144	.28578	5.4519	1.5391	.67822
#1	.02352	34.125	.10444	.23938	.16280
#2	.02420	34.263	.11282	.24465	.16437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09376**	**302.22**	**.10116**	**.0651**	**.10253**
Stddev	.00012	.94	.00161	.0169	.00190
%RSD	.12932	.31096	1.5866	26.00	1.8564
#1	.09367	302.88	.10003	.0770	.10118
#2	.09385	301.55	.10230	.0531	.10387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12018**	**.10214**	**20.662**	**19.003**	**.12077**
Stddev	.00093	.00005	.075	.091	.00255
%RSD	.77694	.05102	.36265	.47716	2.1099
#1	.11952	.10218	20.609	18.938	.11897
#2	.12084	.10210	20.715	19.067	.12257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-B MS@5 Acquired: 8/28/2017 12:21:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**189.45**	**1.0197**	**.09625**	**5.5611**	**.11297**
Stddev	.65	.0009	.00178	.0174	.00180
%RSD	.34547	.08962	1.8540	.31345	1.5930
#1	188.99	1.0191	.09499	5.5487	.11170
#2	189.92	1.0204	.09751	5.5734	.11424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13174**	**13.385**	**.07414**	**.09694**	**2.1508**
Stddev	.00305	.253	.00016	.00106	.0036
%RSD	2.3143	1.8919	.21973	1.0973	.16634
#1	.12959	13.206	.07402	.09619	2.1533
#2	.13390	13.564	.07426	.09769	2.1483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10707**	**.26452**	**.19714**	**.09447**	**.12900**
Stddev	.00239	.00077	.00740	.00045	.00004
%RSD	2.2359	.29022	3.7536	.47446	.03316
#1	.10538	.26398	.20237	.09416	.12897
#2	.10876	.26506	.19191	.09479	.12903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-B MS@5 Acquired: 8/28/2017 12:21:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.19380
Stddev	.00019
%RSD	.09784
#1	.19366
#2	.19393
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3223.8	2477.5	19385.	4175.7
Stddev	10.7	4.4	39.	3.8
%RSD	.33294	.17885	.20298	.09080
#1	3231.4	2480.6	19357.	4173.0
#2	3216.2	2474.4	19412.	4178.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.297%	92.540%	91.474%	99.738%
Range				

Sample Name: 123104-A-1-C MSD@5 Acquired: 8/28/2017 12:25:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02311	30.197	.10040	.21221	.15545
Stddev	.00065	.024	.00065	.00241	.00021
%RSD	2.8127	.08036	.64962	1.1370	.13725
#1	.02265	30.214	.09994	.21051	.15530
#2	.02357	30.180	.10086	.21392	.15560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08835	335.11	.09404	.0670	.09427
Stddev	.00031	2.76	.00100	.0071	.00111
%RSD	.34633	.82421	1.0679	10.54	1.1794
#1	.08813	333.15	.09333	.0620	.09349
#2	.08857	337.06	.09475	.0720	.09506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11467	.09355	19.258	16.937	.11302
Stddev	.00060	.00068	.041	.079	.00159
%RSD	.52590	.72244	.21070	.46624	1.4045
#1	.11424	.09403	19.230	16.881	.11414
#2	.11509	.09307	19.287	16.992	.11190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-C MSD@5 Acquired: 8/28/2017 12:25:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**210.67**	**1.0291**	**.08926**	**5.3437**	**.10265**
Stddev	.47	.0022	.00134	.0095	.00188
%RSD	.22495	.20879	1.5006	.17833	1.8348
#1	210.33	1.0276	.08831	5.3505	.10132
#2	211.00	1.0306	.09021	5.3370	.10398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12831**	**12.680**	**.07261**	**.08985**	**2.4767**
Stddev	.00264	.133	.00304	.00224	.0106
%RSD	2.0597	1.0474	4.1810	2.4942	.42730
#1	.12645	12.586	.07047	.08827	2.4692
#2	.13018	12.774	.07476	.09144	2.4842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10056**	**.26316**	**.22394**	**.08893**	**.12194**
Stddev	.00153	.00016	.00462	.00291	.00040
%RSD	1.5252	.06147	2.0626	3.2767	.32990
#1	.09948	.26328	.22067	.08687	.12165
#2	.10165	.26305	.22720	.09099	.12222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 123104-A-1-C MSD@5 Acquired: 8/28/2017 12:25:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.15043**
Stddev	.00055
%RSD	.36781
#1	.15004
#2	.15083
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3201.7**	**2465.8**	**19296.**	**4161.7**
Stddev	1.3	.8	7.	8.6
%RSD	.03985	.03399	.03383	.20727
#1	3202.6	2466.4	19301.	4167.8
#2	3200.8	2465.2	19291.	4155.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.760%	92.103%	91.057%	99.404%
Range				

Sample Name: 480-123126-A-1-A@10 Acquired: 8/28/2017 12:28:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00667**	**23.914**	**.06319**	**.00714**	**.02176**
Stddev	.00085	.179	.00035	.00012	.00009
%RSD	12.673	.74894	.55741	1.6145	.42637
#1	.00727	23.787	.06294	.00722	.02169
#2	.00608	24.040	.06343	.00706	.02183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**1.5979**	**.07564**	**-.0110**	**.02393**
Stddev	.00003	.0046	.00094	.0261	.00011
%RSD	117.16	.28680	1.2481	238.4	.47279
#1	-.00004	1.5946	.07497	-.0294	.02385
#2	-.00000	1.6011	.07631	.0075	.02401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00332**	**.08544**	**1.7920**	**.28860**	**-.00157**
Stddev	.00051	.00083	.0052	.01184	.00053
%RSD	15.437	.97704	.29240	4.1022	34.008
#1	.00296	.08485	1.7957	.28023	-.00195
#2	.00369	.08603	1.7883	.29697	-.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123126-A-1-A@10 Acquired: 8/28/2017 12:28:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91688**	**.02068**	**.00065**	**.08928**	**.00438**
Stddev	.00668	.00004	.00002	.01673	.00010
%RSD	.72871	.19904	3.5898	18.741	2.2577
#1	.91216	.02065	.00067	.10112	.00431
#2	.92161	.02071	.00063	.07745	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.548**	**2.3264**	**7.1327**	**.00008**	**.32298**
Stddev	.609	.0279	.0833	.00256	.00229
%RSD	1.1810	1.1982	1.1675	3256.8	.71013
#1	51.118	2.3067	7.0738	.00189	.32136
#2	51.979	2.3462	7.1916	-.00173	.32461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10735**	**.00595**	**.02282**	**-.00131**	**.00664**
Stddev	.00075	.00006	.00018	.00035	.00004
%RSD	.69422	.98841	.80626	26.510	.55096
#1	.10683	.00591	.02269	-.00156	.00661
#2	.10788	.00599	.02295	-.00107	.00666
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123126-A-1-A@10 Acquired: 8/28/2017 12:28:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **23.460**
Stddev	.019
%RSD	.08194
#1	23.447
#2	23.474
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3924.6**	**2670.8**	**21108.**	**4233.0**
Stddev	1.6	.3	88.	4.1
%RSD	.04159	.01290	.41731	.09636
#1	3925.8	2671.0	21046.	4230.1
#2	3923.5	2670.5	21170.	4235.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.318%	99.760%	99.608%	101.11%
Range				

Sample Name: 480-123126-A-2-A@10 Acquired: 8/28/2017 12:32:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00459**	**19.437**	**.07579**	**.00304**	**.02210**
Stddev	.00080	.095	.00213	.00040	.00013
%RSD	17.522	.48621	2.8087	13.077	.57778
#1	.00402	19.370	.07429	.00333	.02201
#2	.00516	19.504	.07730	.00276	.02219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.64537**	**.26161**	**.0086**	**.02914**
Stddev	.00009	.00014	.00457	.0104	.00022
%RSD	254.95	.02199	1.7472	121.6	.76798
#1	.00003	.64527	.25838	.0012	.02898
#2	-.00010	.64547	.26484	.0159	.02930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00903**	**.16172**	**16.283**	**.11657**	**-.00098**
Stddev	.00005	.00089	.148	.01240	.00070
%RSD	.60577	.55141	.91132	10.640	71.651
#1	.00900	.16109	16.178	.12534	-.00048
#2	.00907	.16235	16.388	.10780	-.00148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123126-A-2-A@10 Acquired: 8/28/2017 12:32:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41614**	**.02398**	**.00272**	**.09493**	**.01143**
Stddev	.00322	.00007	.00003	.00090	.00001
%RSD	.77498	.30212	1.0698	.94653	.06221
#1	.41386	.02393	.00274	.09557	.01144
#2	.41842	.02403	.00269	.09430	.01143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.865**	**4.1838**	**5.4891**	**.00112**	**.35878**
Stddev	.866	.0727	.0868	.00298	.00025
%RSD	1.6689	1.7379	1.5818	266.71	.07063
#1	51.253	4.1324	5.4277	.00323	.35896
#2	52.477	4.2352	5.5505	-.00099	.35860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12160**	**.00600**	**.02611**	**-.00189**	**.01660**
Stddev	.00227	.00007	.00171	.00214	.00018
%RSD	1.8668	1.2051	6.5523	113.34	1.0580
#1	.12000	.00595	.02490	-.00038	.01672
#2	.12321	.00605	.02732	-.00341	.01647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123126-A-2-A@10 Acquired: 8/28/2017 12:32:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **68.806**
Stddev	.095
%RSD	.13781
#1	68.739
#2	68.874
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3898.8**	**2642.1**	**20933.**	**4215.1**
Stddev	6.0	3.5	82.	6.6
%RSD	.15497	.13364	.39323	.15709
#1	3894.6	2639.6	20874.	4219.8
#2	3903.1	2644.6	20991.	4210.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.691%	98.687%	98.780%	100.68%
Range				

Sample Name: 480-123118-A-1-A@50 Acquired: 8/28/2017 12:35:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00093	2.4184	.00381	.00217	.03802
Stddev	.00070	.0492	.00336	.00002	.00002
%RSD	75.211	2.0357	87.956	1.1072	.04606
#1	.00043	2.3836	.00144	.00216	.03801
#2	.00142	2.4532	.00619	.00219	.03803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00006	.96396	.00040	.0304	.00212
Stddev	.00010	.00294	.00011	.0056	.00003
%RSD	174.21	.30490	26.304	18.50	1.3090
#1	.00013	.96188	.00048	.0264	.00210
#2	-.00001	.96604	.00033	.0344	.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01418	5.5585	5.9888	.27538	.00517
Stddev	.00015	.0128	.0157	.07660	.00010
%RSD	1.0802	.22969	.26286	27.815	1.8774
#1	.01428	5.5495	5.9777	.22122	.00524
#2	.01407	5.5676	5.9999	.32954	.00511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123118-A-1-A@50 Acquired: 8/28/2017 12:35:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11399**	**.04048**	**.00089**	**.27396**	**.37861**
Stddev	.00165	.00019	.00019	.00120	.00129
%RSD	1.4489	.46942	21.136	.43721	.34174
#1	.11282	.04062	.00076	.27311	.37952
#2	.11515	.04035	.00102	.27480	.37769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02708**	**4.0133**	**.00943**	**.00456**	**.05504**
Stddev	.00055	.0013	.00042	.00069	.00300
%RSD	2.0218	.03147	4.4782	15.055	5.4567
#1	.02747	4.0142	.00913	.00504	.05291
#2	.02670	4.0124	.00973	.00407	.05716
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00294**	**.02996**	**.05739**	**-.00054**	**.00801**
Stddev	.00026	.00029	.00221	.00042	.00054
%RSD	8.9857	.96396	3.8521	76.678	6.7855
#1	.00313	.02976	.05895	-.00084	.00839
#2	.00276	.03017	.05582	-.00025	.00762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123118-A-1-A@50 Acquired: 8/28/2017 12:35:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.7528**
Stddev	.0004
%RSD	.01571
#1	2.7525
#2	2.7531
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4023.1**	**2648.5**	**21122.**	**4166.6**
Stddev	7.1	6.7	22.	1.0
%RSD	.17617	.25462	.10515	.02499
#1	4028.1	2653.3	21137.	4165.8
#2	4018.1	2643.7	21106.	4167.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.709%	98.928%	99.672%	99.520%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 12:39:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50820**	**24.190**	**.50088**	**.50407**	**.49055**
Stddev	.00022	.098	.00133	.00000	.00055
%RSD	.04336	.40517	.26487	.00033	.11305
#1	.50836	24.260	.50182	.50407	.49016
#2	.50804	24.121	.49994	.50407	.49094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50385**	**24.824**	**.50003**	**-.0004**	**.49028**
Stddev	.00194	.114	.00017	.0100	.00090
%RSD	.38515	.45811	.03436	2265.	.18288
#1	.50522	24.904	.50016	-.0075	.49092
#2	.50248	24.743	.49991	.0066	.48965
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50983**	**.49913**	**24.404**	**24.891**	**.49574**
Stddev	.00094	.00437	.104	.049	.00155
%RSD	.18420	.87604	.42522	.19679	.31244
#1	.50917	.50222	24.478	24.925	.49684
#2	.51050	.49604	24.331	24.856	.49465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 12:39:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.969**	**.50881**	**.49911**	**24.899**	**.49741**
Stddev	.098	.00203	.00187	.123	.00114
%RSD	.39252	.39950	.37490	.49463	.22973
#1	25.039	.51025	.49779	24.986	.49822
#2	24.900	.50738	.50043	24.812	.49660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49355**	**25.220**	**.50154**	**.50022**	**24.217**
Stddev	.00015	.035	.00049	.00317	.132
%RSD	.02960	.13797	.09755	.63449	.54456
#1	.49365	25.196	.50119	.49798	24.310
#2	.49344	25.245	.50189	.50247	24.123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51181**	**.49841**	**.49997**	**.50363**	**.50495**
Stddev	.00105	.00180	.00039	.00069	.00061
%RSD	.20484	.36068	.07858	.13778	.12112
#1	.51255	.49968	.50025	.50314	.50452
#2	.51107	.49714	.49969	.50412	.50538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 12:39:13 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50525**
Stddev	.00004
%RSD	.00740
#1	.50522
#2	.50527
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3676.2**	**2607.8**	**20482.**	**4194.2**
Stddev	2.2	1.8	22.	19.2
%RSD	.06094	.06831	.10923	.45873
#1	3674.6	2609.1	20466.	4180.6
#2	3677.8	2606.6	20498.	4207.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 12:42:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00075**	**-.00030**	**-.00008**	**-.00013**
Stddev	.00053	.02198	.00093	.00001	.00001
%RSD	327.06	2950.7	314.15	15.649	9.0858
#1	.00021	.01480	.00036	-.00009	-.00012
#2	-.00054	-.01629	-.00096	-.00007	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00558**	**-.00028**	**.0006**	**-.00012**
Stddev	.00004	.00351	.00011	.0025	.00018
%RSD	17.608	62.863	38.789	432.3	144.90
#1	-.00019	-.00807	-.00036	.0023	-.00025
#2	-.00025	-.00310	-.00021	-.0012	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00030**	**-.00761**	**.06185**	**-.00180**
Stddev	.00038	.00022	.00088	.00808	.00114
%RSD	808.55	73.257	11.634	13.062	63.442
#1	-.00031	-.00045	-.00823	.06757	-.00261
#2	.00022	-.00014	-.00698	.05614	-.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 12:42:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00456**	**-.00012**	**-.00015**	**-.01209**	**.00014**
Stddev	.00616	.00002	.00014	.00709	.00056
%RSD	135.17	15.814	96.222	58.626	394.28
#1	-.00892	-.00013	-.00025	-.00708	-.00025
#2	-.00020	-.00011	-.00005	-.01710	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00576**	**.00093**	**.00244**	**-.00913**
Stddev	.00185	.00200	.00068	.00300	.00143
%RSD	990.02	34.627	72.745	122.80	15.710
#1	.00112	-.00435	.00045	.00032	-.00811
#2	-.00149	-.00718	.00141	.00456	-.01014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00005**	**-.00053**	**-.00166**	**.00004**
Stddev	.00003	.00002	.00034	.00168	.00004
%RSD	37.343	43.208	65.511	101.20	97.051
#1	-.00011	-.00006	-.00028	-.00047	.00001
#2	-.00006	-.00003	-.00077	-.00285	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 12:42:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00009
Stddev	.00006
%RSD	64.296
#1	.00005
#2	.00013
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4104.2	2662.1	21268.	4211.6
Stddev	.8	3.4	142.	54.2
%RSD	.02064	.12741	.66951	1.2875
#1	4104.8	2664.5	21368.	4250.0
#2	4103.6	2659.7	21167.	4173.3

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:46:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00703**	**.20107**	**.01558**	**.02018**	**.00199**
Stddev	.00067	.00382	.00186	.00021	.00002
%RSD	9.5183	1.9009	11.926	1.0412	1.2146
#1	.00655	.20377	.01426	.02033	.00200
#2	.00750	.19837	.01689	.02003	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.50278**	**.00205**	**.0066**	**.00389**
Stddev	.00010	.00606	.00011	.0170	.00001
%RSD	5.3019	1.2059	5.3688	258.5	.20179
#1	.00200	.50707	.00213	-.0054	.00389
#2	.00185	.49850	.00197	.0186	.00390
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	**.01053**	**.04406**	**.50749**	**.02951**
Stddev	.00006	.00032	.00187	.02874	.00187
%RSD	1.4221	3.0393	4.2362	5.6635	6.3347
#1	.00430	.01076	.04274	.52781	.02818
#2	.00421	.01030	.04538	.48716	.03083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:46:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20215**	**.00310**	**.01001**	**1.0018**	**.00934**
Stddev	.00129	.00008	.00002	.0004	.00001
%RSD	.63622	2.4183	.21997	.04354	.05659
#1	.20306	.00316	.01003	1.0015	.00933
#2	.20124	.00305	.01000	1.0021	.00934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00908**	**.19343**	**.02177**	**.02866**	**.51010**
Stddev	.00083	.00083	.00122	.00393	.00757
%RSD	9.0987	.42912	5.6128	13.728	1.4849
#1	.00966	.19284	.02263	.03144	.50474
#2	.00849	.19402	.02091	.02588	.51545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00914**	**.00497**	**.00474**	**.01887**	**.00558**
Stddev	.00062	.00009	.00002	.00186	.00027
%RSD	6.7592	1.8692	.34771	9.8560	4.8030
#1	.00871	.00490	.00473	.01756	.00539
#2	.00958	.00503	.00475	.02019	.00577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 12:46:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01141
Stddev	.00038
%RSD	3.3249
#1	.01168
#2	.01114
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4078.7	2663.9	21249.	4232.4
Stddev	2.9	1.0	89.	37.1
%RSD	.07052	.03759	.41724	.87629
#1	4076.7	2663.2	21187.	4258.6
#2	4080.8	2664.6	21312.	4206.1

Sample Name: LB2 480-373744/1-B Acquired: 8/28/2017 12:49:59 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.02429**	**.01287**	**.02570**	**.00194**
Stddev	.00012	.00662	.00053	.00037	.00005
%RSD	24.442	27.234	4.1314	1.4326	2.4213
#1	-.00056	.01961	.01325	.02596	.00197
#2	-.00039	.02897	.01250	.02544	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.20330**	**-.00005**	**.0018**	**-.00002**
Stddev	.00004	.00350	.00007	.0330	.00020
%RSD	18.515	1.7194	131.57	1828.	973.69
#1	-.00022	.20083	-.00010	.0251	.00012
#2	-.00017	.20577	-.00000	-.0215	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00208**	**.07854**	**.03439**	**-.00044**
Stddev	.00027	.00048	.00429	.01618	.00017
%RSD	1163.9	22.966	5.4621	47.064	39.263
#1	-.00017	.00174	.08158	.04583	-.00032
#2	.00022	.00242	.07551	.02294	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB2 480-373744/1-B Acquired: 8/28/2017 12:49:59 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03851**	**.00567**	**-.00011**	F **12.194**	**.00039**
Stddev	.00063	.00005	.00001	.006	.00016
%RSD	1.6415	.85123	5.5576	.04959	41.283
#1	.03895	.00571	-.00012	12.190	.00050
#2	.03806	.00564	-.00011	12.199	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.02176**	**.00089**	**.00714**	**.03289**
Stddev	.00041	.00152	.00114	.00103	.00214
%RSD	245.13	7.0062	128.31	14.419	6.4926
#1	.00012	.02068	.00008	.00641	.03138
#2	-.00046	.02284	.00169	.00787	.03440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00076**	**.00023**	**-.00299**	**.00016**
Stddev	.00011	.00004	.00006	.00007	.00003
%RSD	13.764	5.8435	26.039	2.2851	20.499
#1	.00069	.00080	.00019	-.00294	.00018
#2	.00084	.00073	.00027	-.00303	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB2 480-373744/1-B Acquired: 8/28/2017 12:49:59 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00586
Stddev	.00014
%RSD	2.3915
#1	.00596
#2	.00576
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4058.5	2650.0	21258.	4351.5
Stddev	2.2	.3	44.	3.9
%RSD	.05422	.01174	.20706	.09042
#1	4057.0	2649.8	21289.	4348.8
#2	4060.1	2650.2	21226.	4354.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.570%	98.984%	100.31%	103.94%
Range				

Sample Name: MB 480-373906/2-A Acquired: 8/28/2017 12:53:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.04414**	**-.00023**	**.00041**	**-.00008**
Stddev	.00013	.00072	.00200	.00002	.00002
%RSD	219.14	1.6203	882.47	4.4910	22.485
#1	-.00003	.04465	-.00164	.00040	-.00007
#2	.00015	.04364	.00119	.00043	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.01389**	**-.00025**	**.0207**	**-.00004**
Stddev	.00003	.00042	.00008	.0258	.00022
%RSD	15.236	3.0389	34.066	124.7	597.61
#1	-.00019	.01359	-.00030	.0389	-.00019
#2	-.00023	.01419	-.00019	.0025	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00053**	**.00140**	**.02423**	**-.00042**
Stddev	.00008	.00008	.00022	.02586	.00003
%RSD	19.215	14.915	15.806	106.76	8.3154
#1	-.00038	.00047	.00156	.04252	-.00039
#2	-.00050	.00059	.00124	.00594	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373906/2-A Acquired: 8/28/2017 12:53:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00343**	**.00191**	**-.00032**	**.00681**	**.00013**
Stddev	.00021	.00000	.00010	.00288	.00001
%RSD	6.0192	.01466	32.169	42.255	7.4521
#1	-.00357	.00191	-.00025	.00477	.00014
#2	-.00328	.00191	-.00039	.00884	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.00447**	**.00148**	**.00218**	**-.01898**
Stddev	.00085	.00054	.00066	.00069	.00368
%RSD	94.303	12.179	44.554	31.832	19.403
#1	-.00150	.00409	.00102	.00266	-.01638
#2	-.00030	.00486	.00195	.00169	-.02159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00002**	**.00010**	**-.00188**	**-.00000**
Stddev	.00027	.00004	.00001	.00070	.00010
%RSD	93.215	247.83	5.8148	37.377	47870.
#1	-.00049	.00004	.00010	-.00139	.00007
#2	-.00010	-.00001	.00010	-.00238	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373906/2-A Acquired: 8/28/2017 12:53:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00291
Stddev	.00063
%RSD	21.652
#1	.00335
#2	.00246
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4112.5	2660.1	21158.	4217.9
Stddev	4.1	4.6	11.	12.3
%RSD	.09914	.17247	.05428	.29277
#1	4109.6	2656.8	21166.	4209.2
#2	4115.3	2663.3	21150.	4226.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.880%	99.360%	99.843%	100.75%
Range				

Sample Name: LCS 480-373906/3-A Acquired: 8/28/2017 12:57:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98033**	**.05178**	**.99118**	**.02484**	**.97046**
Stddev	.00351	.01689	.00227	.00005	.00164
%RSD	.35761	32.618	.22876	.18607	.16950
#1	.98281	.06372	.99278	.02480	.96930
#2	.97785	.03983	.98957	.02487	.97162
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98299**	**.19002**	**.99170**	**-.0090**	**.90278**
Stddev	.00152	.00308	.00008	.0191	.00139
%RSD	.15417	1.6188	.00778	212.3	.15414
#1	.98192	.18785	.99164	.0045	.90180
#2	.98406	.19220	.99175	-.0226	.90377
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99446**	**.98424**	**.07272**	**.06636**	**.00032**
Stddev	.00146	.00472	.00061	.00961	.00084
%RSD	.14722	.48005	.84570	14.481	260.44
#1	.99550	.98758	.07228	.07315	.00091
#2	.99343	.98090	.07315	.05956	-.00027
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-373906/3-A Acquired: 8/28/2017 12:57:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02289**	**.97157**	**.98415**	**11.999**	**.92044**
Stddev	.00492	.00078	.00143	.041	.00140
%RSD	21.495	.08021	.14569	.33878	.15180
#1	.01941	.97102	.98516	11.971	.91945
#2	.02637	.97212	.98313	12.028	.92143
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95372**	**.01814**	**.98272**	**1.0120**	**.05784**
Stddev	.00266	.00093	.00122	.0034	.00114
%RSD	.27854	5.1464	.12433	.33186	1.9727
#1	.95185	.01880	.98186	1.0144	.05703
#2	.95560	.01748	.98359	1.0096	.05864
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.99207**	**.00047**	**.97896**	**.99594**
Stddev	.00014	.00386	.00019	.00072	.00004
%RSD	24.477	.38933	39.856	.07377	.00441
#1	.00068	.98934	.00060	.97947	.99591
#2	.00048	.99480	.00034	.97845	.99597
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373906/3-A Acquired: 8/28/2017 12:57:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.98732
Stddev	.00340
%RSD	.34434
#1	.98492
#2	.98973
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4033.1	2650.7	21327.	4334.4
Stddev	2.9	1.5	34.	16.9
%RSD	.07297	.05575	.16149	.39078
#1	4035.2	2649.6	21302.	4346.3
#2	4031.0	2651.7	21351.	4322.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.952%	99.009%	100.64%	103.53%
Range				

Sample Name: 480-123063-C-1-D Acquired: 8/28/2017 13:00:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**.06954**	**.01341**	**.09860**	**.67069**
Stddev	.00028	.01501	.00037	.00009	.00401
%RSD	33.691	21.579	2.7576	.08856	.59778
#1	-.00064	.05893	.01367	.09854	.66786
#2	-.00104	.08015	.01314	.09866	.67353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	F **2104.7**	**.00089**	**.0298**	**.02566**
Stddev	.00008	22.2	.00008	.0249	.00029
%RSD	21.378	1.0531	8.9240	83.43	1.1364
#1	-.00042	2120.4	.00083	.0122	.02546
#2	-.00031	2089.0	.00094	.0474	.02587
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	F **-.01341**	**4.1934**	**2.4744**	**-.00493**
Stddev	.00044	.00183	.0117	.0142	.00289
%RSD	221.25	13.674	.27906	.57389	58.581
#1	.00051	-.01470	4.2016	2.4844	-.00289
#2	-.00011	-.01211	4.1851	2.4643	-.00697
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		23.000			
Low Limit		-.01000			

Sample Name: 480-123063-C-1-D Acquired: 8/28/2017 13:00:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.833**	**1.6198**	**.00348**	**23.832**	**.04895**
Stddev	.082	.0032	.00005	.141	.00027
%RSD	.35844	.19962	1.3224	.59029	.56050
#1	22.890	1.6221	.00345	23.931	.04876
#2	22.775	1.6176	.00351	23.732	.04915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11384**	**12.823**	**.00217**	**.00040**	**9.8236**
Stddev	.00046	.007	.00168	.00094	.0272
%RSD	.40081	.05830	77.272	235.46	.27728
#1	.11352	12.828	.00098	-.00027	9.8428
#2	.11416	12.818	.00335	.00107	9.8043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**3.4858**	**-.00115**	**-.00459**	**.00213**
Stddev	.00060	.0226	.00012	.00091	.00011
%RSD	99.720	.64842	10.422	19.917	5.1863
#1	.00102	3.5018	-.00124	-.00523	.00205
#2	.00018	3.4698	-.00107	-.00394	.00221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-D Acquired: 8/28/2017 13:00:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.08341
Stddev	.00091
%RSD	1.0858
#1	.08277
#2	.08405
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2808.8	2213.9	17400.	4034.1
Stddev	3.9	5.5	48.	23.9
%RSD	.13770	.25041	.27688	.59242
#1	2811.5	2217.8	17434.	4017.2
#2	2806.0	2210.0	17366.	4051.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.217%	82.695%	82.111%	96.357%
Range				

Sample Name: 480-123063-C-1-Dsd@5 Acquired: 8/28/2017 13:04:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**.03200**	**.00438**	**.01965**	**.13534**
Stddev	.00114	.02822	.00061	.00024	.00060
%RSD	193.62	88.196	13.986	1.2267	.44023
#1	.00022	.01204	.00481	.01948	.13576
#2	-.00139	.05196	.00395	.01982	.13492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**458.95**	**.00005**	**.0161**	**.00487**
Stddev	.00010	2.85	.00013	.0083	.00016
%RSD	59.040	.62144	288.42	51.54	3.1860
#1	-.00025	460.96	.00014	.0220	.00476
#2	-.00010	456.93	-.00005	.0102	.00498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00188**	**.85023**	**.45644**	**-.00520**
Stddev	.00023	.00142	.00218	.04401	.00004
%RSD	59.042	75.508	.25649	9.6425	.80206
#1	.00056	-.00088	.84869	.48756	-.00517
#2	.00023	-.00288	.85178	.42531	-.00522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-Dsd@5 Acquired: 8/28/2017 13:04:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7684**	**.32996**	**.00022**	**4.5812**	**.01007**
Stddev	.0157	.00164	.00008	.0048	.00044
%RSD	.32880	.49693	36.998	.10550	4.3597
#1	4.7795	.33112	.00027	4.5778	.01038
#2	4.7574	.32880	.00016	4.5846	.00976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02103**	**2.3828**	**.00046**	**-.00061**	**1.9468**
Stddev	.00090	.0082	.00044	.00037	.0294
%RSD	4.2678	.34570	94.235	60.028	1.5093
#1	.02040	2.3770	.00015	-.00035	1.9675
#2	.02167	2.3886	.00077	-.00087	1.9260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.68889**	**-.00086**	**-.00164**	**.00041**
Stddev	.00001	.00033	.00034	.00025	.00061
%RSD	6.0533	.04800	39.279	15.247	149.24
#1	.00024	.68912	-.00110	-.00182	.00084
#2	.00022	.68866	-.00062	-.00147	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-Dsd@5 Acquired: 8/28/2017 13:04:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01853
Stddev	.00034
%RSD	1.8089
#1	.01876
#2	.01829
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3364.1	2423.2	19137.	4101.4
Stddev	3.9	5.9	78.	2.2
%RSD	.11592	.24381	.40629	.05438
#1	3366.9	2427.4	19082.	4099.8
#2	3361.4	2419.0	19192.	4102.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.706%	90.513%	90.306%	97.963%
Range				

Sample Name: 480-123063-C-1-D pds Acquired: 8/28/2017 13:08:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **2.1234**	**.06287**	**2.2486**	**.09990**	**2.7616**
Stddev	.0052	.03466	.0049	.00100	.0038
%RSD	.24457	55.133	.21684	1.0054	.13843
#1	2.1198	.03836	2.2521	.09918	2.7643
#2	2.1271	.08738	2.2452	.10061	2.7589
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000				
Low Limit	-.00600				

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9559**	F **2107.5**	**2.2113**	**.0418**	**2.0410**
Stddev	.0103	6.4	.0040	.0127	.0003
%RSD	.52613	.30600	.18036	30.42	.01294
#1	1.9632	2112.1	2.2085	.0508	2.0408
#2	1.9487	2102.9	2.2141	.0328	2.0412
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9843**	**2.0557**	**4.1784**	**2.4937**	**-.00685**
Stddev	.0029	.0126	.0146	.0609	.00036
%RSD	.14649	.61474	.35029	2.4408	5.2364
#1	1.9864	2.0646	4.1888	2.5368	-.00711
#2	1.9823	2.0467	4.1681	2.4507	-.00660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-D pds Acquired: 8/28/2017 13:08:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.608**	**3.5261**	**1.9729**	**23.731**	**2.0897**
Stddev	.029	.0069	.0029	.106	.0015
%RSD	.12690	.19414	.14790	.44779	.07324
#1	22.628	3.5310	1.9750	23.807	2.0886
#2	22.587	3.5213	1.9708	23.656	2.0907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2009**	**12.752**	**2.1463**	**2.2669**	**9.7986**
Stddev	.0023	.008	.0017	.0020	.1117
%RSD	.10327	.06393	.08017	.08993	1.1399
#1	2.2026	12.758	2.1451	2.2683	9.8776
#2	2.1993	12.746	2.1476	2.2654	9.7196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	**3.4627**	**-.00070**	**1.9650**	**2.0276**
Stddev	.00043	.0209	.00016	.0086	.0007
%RSD	20.987	.60422	23.200	.43686	.03468
#1	.00176	3.4775	-.00081	1.9711	2.0281
#2	.00237	3.4479	-.00058	1.9589	2.0271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-D pds Acquired: 8/28/2017 13:08:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.9915**
Stddev	.0005
%RSD	.02310
#1	1.9912
#2	1.9918
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2783.6**	**2202.8**	**17465.**	**4023.1**
Stddev	2.4	.4	26.	5.7
%RSD	.08493	.01774	.15027	.14249
#1	2781.9	2202.5	17446.	4019.1
#2	2785.2	2203.0	17483.	4027.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.605%	82.279%	82.416%	96.094%
Range				

Sample Name: 480-123063-C-1-E MS Acquired: 8/28/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0462**	**.06368**	**1.0454**	**.09563**	**1.6141**
Stddev	.0005	.00599	.0011	.00027	.0004
%RSD	.04573	9.4118	.10593	.28166	.02804
#1	1.0465	.06792	1.0462	.09582	1.6138
#2	1.0459	.05944	1.0447	.09544	1.6144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.89856**	F **2024.1**	**1.0265**	**.0489**	**.95950**
Stddev	.00183	4.5	.0006	.0097	.00061
%RSD	.20382	.22351	.05923	19.74	.06379
#1	.89726	2027.3	1.0270	.0421	.95993
#2	.89985	2020.9	1.0261	.0557	.95907
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91021**	**.96599**	**4.0161**	**2.3597**	**-.00769**
Stddev	.00075	.00034	.0025	.0072	.00072
%RSD	.08268	.03545	.06297	.30311	9.3968
#1	.90968	.96575	4.0143	2.3546	-.00820
#2	.91075	.96624	4.0179	2.3647	-.00718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-E MS Acquired: 8/28/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.986**	**2.4608**	**.92094**	**23.659**	**.98765**
Stddev	.110	.0081	.00037	.013	.00253
%RSD	.49953	.33028	.04064	.05507	.25666
#1	21.908	2.4550	.92068	23.650	.98944
#2	22.063	2.4665	.92121	23.669	.98585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0739**	**12.249**	**1.0074**	**1.0443**	**9.4537**
Stddev	.0002	.001	.0011	.0004	.0129
%RSD	.01936	.00589	.10765	.03978	.13606
#1	1.0738	12.248	1.0066	1.0440	9.4628
#2	1.0741	12.249	1.0081	1.0446	9.4446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**4.2750**	**-.00107**	**.90747**	**.96005**
Stddev	.00066	.0176	.00004	.00073	.00133
%RSD	61.411	.41122	3.3058	.08040	.13881
#1	.00153	4.2626	-.00104	.90696	.95911
#2	.00061	4.2875	-.00109	.90799	.96099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-E MS Acquired: 8/28/2017 13:11:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.96703
Stddev	.00387
%RSD	.40045
#1	.96429
#2	.96976
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2808.9	2212.9	17576.	4050.7
Stddev	1.7	.7	94.	8.3
%RSD	.05986	.03329	.53656	.20432
#1	2807.7	2212.3	17643.	4044.8
#2	2810.1	2213.4	17509.	4056.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.220%	82.656%	82.939%	96.751%
Range				

Sample Name: 480-123063-C-1-F MSD Acquired: 8/28/2017 13:15:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1003**	**.11364**	**1.0961**	**.10062**	**1.6915**
Stddev	.0059	.01332	.0014	.00045	.0022
%RSD	.53602	11.724	.12539	.45102	.12765
#1	1.1045	.10422	1.0951	.10094	1.6931
#2	1.0962	.12306	1.0971	.10030	1.6900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94331**	F **2115.6**	**1.0709**	**.0785**	**1.0015**
Stddev	.00136	2.7	.0002	.0149	.0000
%RSD	.14418	.12629	.01550	19.03	.00029
#1	.94234	2117.5	1.0708	.0680	1.0015
#2	.94427	2113.7	1.0710	.0891	1.0015
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95816**	**1.0153**	**4.2027**	**2.5210**	**-.00414**
Stddev	.00263	.0032	.0094	.0069	.00036
%RSD	.27429	.30979	.22379	.27536	8.6026
#1	.95630	1.0176	4.2094	2.5161	-.00389
#2	.96002	1.0131	4.1961	2.5259	-.00439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-F MSD Acquired: 8/28/2017 13:15:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.932**	**2.5648**	**.95759**	**23.961**	**1.0325**
Stddev	.005	.0042	.00035	.026	.0017
%RSD	.02365	.16184	.03684	.10755	.15933
#1	22.935	2.5677	.95734	23.943	1.0313
#2	22.928	2.5619	.95784	23.979	1.0337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1192**	**12.764**	**1.0517**	**1.0905**	**9.9683**
Stddev	.0016	.012	.0007	.0025	.1139
%RSD	.14016	.09625	.06415	.23298	1.1421
#1	1.1181	12.756	1.0522	1.0887	9.8878
#2	1.1203	12.773	1.0512	1.0923	10.049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**4.5148**	**-.00155**	**.94391**	**1.0077**
Stddev	.00040	.0021	.00005	.00111	.0017
%RSD	18.254	.04615	3.0326	.11795	.17033
#1	.00245	4.5163	-.00151	.94312	1.0089
#2	.00189	4.5133	-.00158	.94470	1.0065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-C-1-F MSD Acquired: 8/28/2017 13:15:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	1.0071
Stddev	.0040
%RSD	.40198
#1	1.0042
#2	1.0099
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2789.7	2207.8	17452.	4017.0
Stddev	1.6	.9	23.	7.5
%RSD	.05634	.04169	.13010	.18576
#1	2788.5	2208.4	17468.	4022.3
#2	2790.8	2207.1	17436.	4011.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.753%	82.466%	82.357%	95.948%
Range				

Sample Name: blank Acquired: 8/28/2017 13:18:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00597**	**.00033**	**-.00037**	**-.00010**
Stddev	.00004	.00538	.00027	.00030	.00000
%RSD	17.965	90.208	80.463	80.850	1.0331
#1	.00025	-.00978	.00014	-.00016	-.00010
#2	.00019	-.00216	.00052	-.00059	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00816**	**-.00011**	**.0028**	**.00001**
Stddev	.00006	.00089	.00009	.0003	.00002
%RSD	38.674	10.956	88.574	11.37	168.46
#1	-.00019	.00879	-.00017	.0026	.00002
#2	-.00011	.00753	-.00004	.0031	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00057**	**-.00710**	**.04626**	**.00143**
Stddev	.00018	.00045	.00023	.00850	.00178
%RSD	783.85	78.195	3.1825	18.375	124.71
#1	-.00011	-.00088	-.00694	.04025	.00268
#2	.00015	-.00025	-.00726	.05227	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 13:18:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00181**	**-.00004**	**.00004**	**.00596**	**.00019**
Stddev	.00615	.00007	.00005	.00846	.00014
%RSD	339.66	191.95	127.20	141.95	71.035
#1	-.00616	-.00008	.00000	-.00002	.00009
#2	.00254	.00001	.00007	.01194	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00224**	**.00190**	**.00179**	**.00527**
Stddev	.00015	.00260	.00101	.00091	.00810
%RSD	85.140	116.47	52.981	50.756	153.70
#1	.00007	-.00039	.00119	.00115	-.00046
#2	.00028	-.00408	.00261	.00244	.01099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00007**	**-.00021**	**-.00057**	**-.00001**
Stddev	.00015	.00006	.00010	.00114	.00038
%RSD	681.33	86.217	49.424	199.56	3309.8
#1	.00008	-.00003	-.00014	-.00138	-.00028
#2	-.00012	-.00012	-.00029	.00024	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 13:18:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00311
Stddev	.00034
%RSD	10.942
#1	.00335
#2	.00287
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4088.0	2647.6	21094.	4188.5
Stddev	.5	2.8	4.	52.8
%RSD	.01276	.10415	.01683	1.2595
#1	4088.4	2649.5	21092.	4225.8
#2	4087.6	2645.6	21097.	4151.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.286%	98.894%	99.542%	100.04%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 13:22:33 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50776**	**24.301**	**.50263**	**.50529**	**.49151**
Stddev	.00323	.017	.00250	.00005	.00288
%RSD	.63571	.07156	.49775	.00961	.58645
#1	.50548	24.289	.50087	.50532	.48947
#2	.51005	24.313	.50440	.50525	.49355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50524**	**24.857**	**.50072**	**-.0525**	**.48941**
Stddev	.00009	.011	.00053	.0140	.00046
%RSD	.01782	.04565	.10629	26.75	.09302
#1	.50530	24.849	.50110	-.0426	.48909
#2	.50517	24.865	.50034	-.0624	.48974
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50848**	**.50101**	**24.463**	**24.941**	**.50138**
Stddev	.00304	.00068	.055	.086	.00030
%RSD	.59728	.13498	.22289	.34340	.06067
#1	.50633	.50053	24.502	24.881	.50159
#2	.51062	.50149	24.425	25.002	.50116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 13:22:33 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.953**	**.50815**	**.50016**	**24.936**	**.49693**
Stddev	.113	.00090	.00075	.013	.00014
%RSD	.45469	.17637	.15009	.05158	.02766
#1	24.873	.50751	.49963	24.945	.49683
#2	25.033	.50878	.50069	24.927	.49703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49620**	**25.311**	**.49823**	**.50395**	**24.278**
Stddev	.00280	.003	.00143	.00173	.025
%RSD	.56482	.01234	.28737	.34354	.10136
#1	.49422	25.313	.49924	.50517	24.260
#2	.49818	25.309	.49722	.50272	24.295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51176**	**.50035**	**.49802**	**.50699**	**.50318**
Stddev	.00052	.00042	.00143	.00024	.00304
%RSD	.10108	.08431	.28628	.04757	.60365
#1	.51212	.50065	.49701	.50682	.50103
#2	.51139	.50005	.49903	.50716	.50532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 13:22:33 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50262**
Stddev	.00400
%RSD	.79498
#1	.49980
#2	.50545
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3666.7**	**2597.7**	**20428.**	**4193.4**
Stddev	4.8	6.1	132.	14.9
%RSD	.13141	.23494	.64786	.35509
#1	3663.3	2593.4	20522.	4204.0
#2	3670.1	2602.0	20335.	4182.9

Sample Name: CCB-4204839 Acquired: 8/28/2017 13:26:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**-.00006**	**-.00132**	**-.00045**	**-.00012**
Stddev	.00017	.01921	.00035	.00002	.00002
%RSD	33.015	34699.	26.576	4.8520	19.716
#1	.00040	-.01364	-.00157	-.00044	-.00014
#2	.00065	.01353	-.00107	-.00047	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00311**	**-.00015**	**.0179**	**.00001**
Stddev	.00007	.00463	.00006	.0030	.00012
%RSD	37.698	148.70	41.267	16.76	887.46
#1	-.00025	-.00639	-.00019	.0200	-.00007
#2	-.00014	.00016	-.00010	.0158	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00009**	**-.00626**	**.01795**	**.00015**
Stddev	.00034	.00018	.00093	.03890	.00004
%RSD	279.30	195.79	14.782	216.76	28.346
#1	.00036	-.00004	-.00692	-.00956	.00012
#2	-.00012	.00022	-.00561	.04546	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 13:26:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00738**	**-.00012**	**-.00020**	**.00155**	**.00014**
Stddev	.00280	.00007	.00001	.00196	.00022
%RSD	37.918	58.375	6.9807	126.69	158.76
#1	-.00936	-.00007	-.00019	.00016	.00030
#2	-.00540	-.00017	-.00021	.00294	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00283**	**-.00011**	**.00130**	**-.01351**
Stddev	.00095	.00184	.00055	.00198	.01465
%RSD	182.27	64.851	503.82	152.85	108.47
#1	-.00119	-.00153	-.00050	.00270	-.00315
#2	.00015	-.00413	.00028	-.00010	-.02387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00005**	**-.00008**	**-.00126**	**.00008**
Stddev	.00004	.00003	.00030	.00067	.00015
%RSD	10.404	52.514	349.67	53.401	190.16
#1	-.00037	-.00003	.00012	-.00174	-.00003
#2	-.00043	-.00007	-.00029	-.00079	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 13:26:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00081
Stddev	.00021
%RSD	25.845
#1	.00067
#2	.00096
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4104.2	2658.0	21157.	4197.6
Stddev	2.4	.4	4.	37.8
%RSD	.05915	.01422	.01751	.90132
#1	4106.0	2658.2	21155.	4170.8
#2	4102.5	2657.7	21160.	4224.3

Sample Name: CCVL-4195955 Acquired: 8/28/2017 13:29:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00597**	**.17083**	**.01651**	**.01985**	**.00198**
Stddev	.00003	.01187	.00252	.00015	.00000
%RSD	.53474	6.9465	15.240	.75059	.08784
#1	.00595	.17923	.01828	.01974	.00198
#2	.00599	.16244	.01473	.01995	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.49848**	**.00192**	**.0119**	**.00382**
Stddev	.00013	.00171	.00004	.0061	.00011
%RSD	6.8421	.34212	2.0493	51.53	2.8370
#1	.00198	.49969	.00189	.0076	.00390
#2	.00179	.49727	.00194	.0162	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00423**	**.01051**	**.04417**	**.53885**	**.02950**
Stddev	.00108	.00013	.00210	.01285	.00216
%RSD	25.535	1.2410	4.7505	2.3852	7.3313
#1	.00500	.01042	.04268	.54794	.03103
#2	.00347	.01060	.04565	.52976	.02797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 13:29:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19767**	**.00295**	**.00985**	**.98774**	**.00947**
Stddev	.00649	.00003	.00011	.00238	.00030
%RSD	3.2809	.98634	1.1176	.24122	3.1268
#1	.19308	.00297	.00992	.98942	.00926
#2	.20225	.00293	.00977	.98605	.00968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00936**	**.19805**	**.01976**	**.02663**	**.49829**
Stddev	.00080	.00257	.00108	.00348	.00035
%RSD	8.5757	1.2972	5.4817	13.055	.06951
#1	.00993	.19987	.01899	.02909	.49854
#2	.00880	.19623	.02052	.02418	.49805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00937**	**.00492**	**.00483**	**.01884**	**.00479**
Stddev	.00013	.00005	.00051	.00019	.00036
%RSD	1.3556	.92605	10.474	.99691	7.4409
#1	.00946	.00489	.00447	.01870	.00504
#2	.00928	.00495	.00518	.01897	.00454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 13:29:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01104
Stddev	.00014
%RSD	1.2976
#1	.01094
#2	.01114
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4067.6	2654.2	21212.	4205.6
Stddev	1.7	2.2	91.	22.7
%RSD	.04158	.08193	.42762	.54029
#1	4066.4	2652.6	21276.	4221.7
#2	4068.8	2655.7	21148.	4189.5

Sample Name: LB 480-373730/1-B Acquired: 8/28/2017 13:33:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01726**	**.00266**	**.03134**	**.02588**
Stddev	.00095	.00426	.00096	.00032	.00000
%RSD	14298.	24.684	36.013	1.0120	.01247
#1	-.00066	.02027	.00334	.03111	.02588
#2	.00068	.01425	.00198	.03156	.02588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.32194**	**-.00015**	**.0131**	**-.00045**
Stddev	.00003	.00563	.00005	.0086	.00010
%RSD	19.926	1.7480	29.950	65.72	21.591
#1	-.00011	.31796	-.00012	.0192	-.00052
#2	-.00014	.32592	-.00018	.0070	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00220**	**.00183**	**.05807**	**.47769**	**.00212**
Stddev	.00012	.00113	.00229	.00061	.00036
%RSD	5.4725	61.913	3.9443	.12851	17.062
#1	.00212	.00262	.05646	.47725	.00238
#2	.00229	.00103	.05969	.47812	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-373730/1-B Acquired: 8/28/2017 13:33:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03360**	**.00277**	**.00170**	F **1450.4**	**.00041**
Stddev	.00109	.00015	.00009	.4	.00006
%RSD	3.2538	5.4666	5.3122	.02657	14.213
#1	.03438	.00267	.00176	1450.2	.00037
#2	.03283	.00288	.00163	1450.7	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.04344**	**-.00116**	**.00589**	**.04925**
Stddev	.00107	.00077	.00176	.00341	.01750
%RSD	320.41	1.7772	152.07	58.006	35.541
#1	.00042	.04399	.00009	.00347	.06162
#2	-.00109	.04290	-.00241	.00830	.03687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00136**	**.00290**	**-.00007**	**-.00497**	**-.00005**
Stddev	.00013	.00000	.00047	.00121	.00005
%RSD	9.4354	.13266	655.45	24.400	88.666
#1	.00127	.00291	-.00040	-.00582	-.00009
#2	.00145	.00290	.00026	-.00411	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-373730/1-B Acquired: 8/28/2017 13:33:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00814
Stddev	.00092
%RSD	11.327
#1	.00879
#2	.00748
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3047.3	2359.0	17868.	4159.4
Stddev	.1	4.5	25.	11.1
%RSD	.00328	.19152	.13883	.26650
#1	3047.4	2362.2	17851.	4151.5
#2	3047.3	2355.8	17886.	4167.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.011%	88.113%	84.319%	99.348%
Range				

Sample Name: MB 480-373905/2-A Acquired: 8/28/2017 13:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.02441**	**-.00022**	**.00041**	**-.00006**
Stddev	.00013	.00735	.00062	.00026	.00001
%RSD	69.105	30.125	283.76	63.339	12.780
#1	-.00009	.01921	-.00066	.00059	-.00006
#2	-.00027	.02961	.00022	.00023	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.01035**	**-.00012**	**-.0157**	**-.00018**
Stddev	.00006	.00082	.00001	.0210	.00001
%RSD	35.047	7.9376	11.973	133.4	4.2141
#1	-.00014	.00977	-.00013	-.0009	-.00017
#2	-.00023	.01093	-.00011	-.0305	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00049**	**.00266**	**.01712**	**-.00065**
Stddev	.00006	.00077	.00008	.00954	.00065
%RSD	8.0117	156.94	3.1251	55.723	99.061
#1	.00076	.00104	.00260	.01038	-.00020
#2	.00068	-.00005	.00272	.02387	-.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373905/2-A Acquired: 8/28/2017 13:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00673**	**.00190**	**-.00034**	**.07263**	**.00037**
Stddev	.00224	.00001	.00025	.00214	.00008
%RSD	33.242	.44075	73.499	2.9492	21.515
#1	-.00515	.00189	-.00052	.07111	.00032
#2	-.00831	.00190	-.00016	.07414	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.00014**	**.00046**	**.00072**	**-.00575**
Stddev	.00016	.00185	.00042	.00061	.00377
%RSD	21.448	1281.4	91.474	84.583	65.546
#1	-.00084	.00117	.00076	.00029	-.00308
#2	-.00062	-.00146	.00016	.00115	-.00841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00008**	**.00016**	**-.00200**	**.00009**
Stddev	.00053	.00001	.00033	.00125	.00032
%RSD	1461.0	12.489	203.20	62.731	348.66
#1	.00034	.00009	.00039	-.00111	-.00013
#2	-.00041	.00007	-.00007	-.00289	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373905/2-A Acquired: 8/28/2017 13:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00098
Stddev	.00030
%RSD	30.819
#1	.00077
#2	.00119
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4113.8	2662.8	21352.	4247.3
Stddev	6.8	4.2	66.	11.8
%RSD	.16612	.15864	.30768	.27791
#1	4118.6	2665.8	21306.	4239.0
#2	4109.0	2659.8	21399.	4255.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.912%	99.462%	100.76%	101.45%
Range				

Sample Name: LCS 480-373905/3-A Acquired: 8/28/2017 13:40:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1008**	**.01032**	**1.0984**	**.03096**	**1.0154**
Stddev	.0076	.02512	.0028	.00004	.0029
%RSD	.69304	243.52	.25735	.11821	.28507
#1	1.0954	.02808	1.1004	.03093	1.0134
#2	1.1062	-.00745	1.0964	.03098	1.0175
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99941**	**.30965**	**1.0795**	**-.0431**	**1.0258**
Stddev	.00158	.00516	.0001	.0269	.0021
%RSD	.15767	1.6656	.00893	62.32	.20051
#1	.99830	.31329	1.0794	-.0622	1.0272
#2	1.0005	.30600	1.0795	-.0241	1.0243
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0354**	**1.0366**	**.05325**	**.45730**	**.00119**
Stddev	.0067	.0022	.00186	.00552	.00153
%RSD	.64653	.21348	3.4903	1.2060	128.78
#1	1.0307	1.0350	.05193	.45340	.00227
#2	1.0401	1.0382	.05456	.46120	.00011
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-373905/3-A Acquired: 8/28/2017 13:40:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01008**	**1.0041**	**.99025**	**1425.0**	**1.0420**
Stddev	.00293	.0010	.00070	2.6	.0032
%RSD	29.099	.10003	.07118	.18468	.30341
#1	.01215	1.0048	.99075	1423.1	1.0442
#2	.00800	1.0033	.98975	1426.9	1.0397
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0484**	**.03288**	**1.0314**	**1.0991**	**.04867**
Stddev	.0012	.00164	.0000	.0047	.00520
%RSD	.10962	4.9919	.00120	.42524	10.681
#1	1.0476	.03404	1.0315	1.0958	.04500
#2	1.0492	.03172	1.0314	1.1024	.05235
Check ?	Chk Pass	None	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**1.0066**	**-.00015**	**.97557**	**1.0546**
Stddev	.00000	.0001	.00027	.00087	.0076
%RSD	.10339	.01388	188.61	.08916	.72421
#1	.00090	1.0065	.00005	.97495	1.0492
#2	.00091	1.0067	-.00034	.97618	1.0600
Check ?	None	None	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373905/3-A Acquired: 8/28/2017 13:40:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1140**
Stddev	.0043
%RSD	.38761
#1	1.1109
#2	1.1170
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3039.0**	**2369.9**	**17968.**	**4154.2**
Stddev	5.6	1.0	23.	16.8
%RSD	.18391	.04251	.12789	.40537
#1	3035.1	2369.2	17984.	4142.3
#2	3043.0	2370.6	17952.	4166.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.809%	88.521%	84.790%	99.226%
Range				

Sample Name: 480-123063-F-2-C Acquired: 8/28/2017 13:44:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.21971**	**.00518**	**.08865**	**.46418**
Stddev	.00072	.00054	.00289	.00011	.00129
%RSD	25361.	.24759	55.784	.12965	.27895
#1	.00051	.21932	.00723	.08856	.46510
#2	-.00051	.22009	.00314	.08873	.46327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**389.68**	**.00412**	**.0148**	**.03416**
Stddev	.00006	4.26	.00020	.0124	.00034
%RSD	32.293	1.0943	4.7954	83.65	.98255
#1	.00014	386.66	.00426	.0061	.03392
#2	.00022	392.69	.00398	.0236	.03440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.08468**	**.38506**	**1.5511**	**.01471**
Stddev	.00044	.00093	.00116	.0149	.00110
%RSD	129.90	1.1020	.30210	.96308	7.4611
#1	.00065	.08534	.38424	1.5405	.01548
#2	.00003	.08402	.38588	1.5616	.01393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-C Acquired: 8/28/2017 13:44:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8636**	**.64229**	**.00079**	**1420.1**	**.08505**
Stddev	.0101	.00179	.00026	3.3	.00012
%RSD	.12865	.27908	32.193	.23021	.13666
#1	7.8707	.64355	.00061	1417.8	.08513
#2	7.8564	.64102	.00097	1422.4	.08497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98430**	**2.4797**	**.01327**	**.00621**	**1.1927**
Stddev	.00514	.0052	.00061	.00188	.0080
%RSD	.52252	.20785	4.6338	30.218	.66620
#1	.98793	2.4761	.01283	.00489	1.1871
#2	.98066	2.4834	.01370	.00754	1.1983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00135**	**.81816**	**.00011**	**-.00371**	**-.00016**
Stddev	.00025	.00070	.00021	.00063	.00003
%RSD	18.766	.08498	200.57	16.891	20.455
#1	.00153	.81767	-.00004	-.00415	-.00018
#2	.00117	.81865	.00026	-.00326	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-C Acquired: 8/28/2017 13:44:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.5165**
Stddev	.0040
%RSD	.26517
#1	1.5193
#2	1.5136
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2867.9**	**2285.9**	**17537.**	**4083.2**
Stddev	3.1	1.5	59.	21.6
%RSD	.10752	.06650	.33551	.52999
#1	2865.7	2284.9	17495.	4098.6
#2	2870.1	2287.0	17578.	4067.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.653%	85.385%	82.755%	97.530%
Range				

Sample Name: 480-123063-F-2-Csd@5 Acquired: 8/28/2017 13:48:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.03919**	**-.00056**	**.01760**	**.09423**
Stddev	.00019	.01547	.00367	.00006	.00016
%RSD	514.33	39.484	649.85	.36593	.16975
#1	.00010	.02825	.00203	.01755	.09412
#2	-.00017	.05013	-.00316	.01764	.09434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**78.142**	**.00067**	**.0116**	**.00641**
Stddev	.00002	.090	.00019	.0330	.00009
%RSD	40.285	.11548	27.645	285.3	1.3754
#1	-.00003	78.078	.00080	.0349	.00635
#2	-.00005	78.205	.00054	-.0118	.00647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.01621**	**.07005**	**.29485**	**.00220**
Stddev	.00055	.00018	.00016	.05330	.00047
%RSD	242.15	1.1121	.23135	18.079	21.537
#1	.00016	.01634	.07016	.33254	.00253
#2	-.00062	.01608	.06993	.25715	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-Csd@5 Acquired: 8/28/2017 13:48:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6272**	**.12820**	**-.00013**	**274.92**	**.01630**
Stddev	.0107	.00010	.00005	.36	.00013
%RSD	.65681	.08149	37.548	.12999	.76914
#1	1.6196	.12828	-.00009	275.17	.01639
#2	1.6347	.12813	-.00016	274.67	.01621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19060**	**.45347**	**.00222**	**-.00101**	**.22704**
Stddev	.00027	.00017	.00059	.00081	.01491
%RSD	.14114	.03850	26.755	80.339	6.5670
#1	.19041	.45334	.00180	-.00044	.21650
#2	.19079	.45359	.00264	-.00159	.23759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.16114**	**-.00036**	**-.00200**	**-.00003**
Stddev	.00037	.00023	.00038	.00162	.00070
%RSD	70.366	.14132	105.00	80.734	2098.5
#1	.00026	.16098	-.00009	-.00315	-.00053
#2	.00078	.16131	-.00062	-.00086	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-Csd@5 Acquired: 8/28/2017 13:48:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.30272**
Stddev	.00076
%RSD	.24956
#1	.30326
#2	.30219
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3362.3**	**2465.3**	**19199.**	**4126.2**
Stddev	1.2	2.4	60.	17.2
%RSD	.03586	.09611	.31248	.41629
#1	3363.2	2466.9	19156.	4114.1
#2	3361.5	2463.6	19241.	4138.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.661%	92.084%	90.598%	98.556%
Range				

Sample Name: 480-123063-F-2-C pds Acquired: 8/28/2017 13:51:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **2.3020**	**.19486**	**2.2305**	**.09123**	**2.5504**
Stddev	.0041	.00442	.0092	.00069	.0002
%RSD	.17840	2.2694	.41077	.75107	.00688
#1	2.3049	.19799	2.2370	.09075	2.5503
#2	2.2991	.19173	2.2240	.09171	2.5505
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	2.0000				
Low Limit	-.00600				

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0318**	**386.99**	**2.2245**	**.0253**	**2.1262**
Stddev	.0094	.79	.0005	.0097	.0021
%RSD	.46018	.20466	.02332	38.55	.10076
#1	2.0385	387.55	2.2242	.0322	2.1277
#2	2.0252	386.43	2.2249	.0184	2.1247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0802**	**2.1575**	**.37711**	**1.5355**	**.01553**
Stddev	.0012	.0044	.00445	.0801	.00065
%RSD	.05690	.20508	1.1799	5.2162	4.1705
#1	2.0810	2.1607	.37396	1.4788	.01598
#2	2.0794	2.1544	.38026	1.5921	.01507
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-C pds Acquired: 8/28/2017 13:51:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7307**	**2.6180**	**2.0077**	**1421.7**	**2.2105**
Stddev	.0070	.0039	.0017	.1	.0017
%RSD	.09075	.14731	.08495	.00921	.07794
#1	7.7257	2.6208	2.0065	1421.6	2.2117
#2	7.7357	2.6153	2.0089	1421.8	2.2093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1474**	**2.4637**	**2.1397**	**2.2599**	**1.2136**
Stddev	.0035	.0032	.0019	.0038	.0022
%RSD	.11052	.13116	.08914	.17000	.18284
#1	3.1450	2.4660	2.1384	2.2572	1.2152
#2	3.1499	2.4614	2.1411	2.2626	1.2120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.81585**	**-.00016**	**1.9964**	**2.0982**
Stddev	.00040	.00687	.00030	.0081	.0038
%RSD	43.963	.84243	186.89	.40532	.18187
#1	.00062	.82071	.00005	1.9907	2.1009
#2	.00119	.81099	-.00038	2.0021	2.0955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-C pds Acquired: 8/28/2017 13:51:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**3.5983**
Stddev	.0038
%RSD	.10597
#1	3.5956
#2	3.6010
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2859.7**	**2290.1**	**17636.**	**4059.2**
Stddev	5.6	5.5	47.	6.4
%RSD	.19429	.24049	.26664	.15817
#1	2863.6	2294.0	17670.	4063.7
#2	2855.8	2286.2	17603.	4054.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.454%	85.540%	83.225%	96.955%
Range				

Sample Name: 480-123063-F-2-D MS Acquired: 8/28/2017 13:55:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1417**	**.16143**	**1.1222**	**.09106**	**1.5056**
Stddev	.0048	.01608	.0042	.00004	.0067
%RSD	.41776	9.9614	.37662	.04750	.44357
#1	1.1451	.17280	1.1252	.09103	1.5009
#2	1.1384	.15006	1.1192	.09109	1.5103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0027**	**391.30**	**1.1171**	**.0172**	**1.0733**
Stddev	.0002	.63	.0019	.0293	.0014
%RSD	.02030	.16208	.17074	170.6	.12779
#1	1.0025	390.85	1.1157	-.0035	1.0742
#2	1.0028	391.75	1.1184	.0379	1.0723
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0290**	**1.1380**	**.38444**	**1.5253**	**.01537**
Stddev	.0048	.0066	.00049	.0634	.00072
%RSD	.46341	.57861	.12673	4.1564	4.7145
#1	1.0324	1.1426	.38479	1.4804	.01485
#2	1.0256	1.1333	.38410	1.5701	.01588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-D MS Acquired: 8/28/2017 13:55:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.8723**	**1.6288**	**1.0044**	**1435.0**	**1.1363**
Stddev	.0384	.0057	.0027	4.4	.0010
%RSD	.48752	.35301	.26424	.30414	.08433
#1	7.8994	1.6329	1.0025	1431.9	1.1369
#2	7.8452	1.6247	1.0063	1438.1	1.1356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0652**	**2.4570**	**1.0829**	**1.1261**	**1.2313**
Stddev	.0024	.0001	.0036	.0077	.0077
%RSD	.11853	.00198	.33289	.68603	.62924
#1	2.0635	2.4570	1.0803	1.1206	1.2258
#2	2.0670	2.4571	1.0854	1.1315	1.2368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**1.8369**	**-.00003**	**.99193**	**1.0683**
Stddev	.00082	.0001	.00008	.00526	.0068
%RSD	103.46	.00587	316.92	.53027	.63354
#1	.00021	1.8370	.00003	.99565	1.0731
#2	.00137	1.8369	-.00009	.98821	1.0635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-D MS Acquired: 8/28/2017 13:55:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.5735**
Stddev	.0165
%RSD	.64170
#1	2.5852
#2	2.5619
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2854.3**	**2280.1**	**17601.**	**4048.1**
Stddev	1.3	5.2	85.	11.8
%RSD	.04423	.22775	.48396	.29118
#1	2855.2	2283.8	17540.	4039.8
#2	2853.4	2276.4	17661.	4056.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.322%	85.167%	83.056%	96.690%
Range				

Sample Name: 480-123063-F-2-E MSD Acquired: 8/28/2017 13:59:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1057**	**.18745**	**1.0879**	**.08853**	**1.4641**
Stddev	.0053	.02036	.0021	.00004	.0080
%RSD	.47640	10.864	.19638	.04873	.54540
#1	1.1019	.20185	1.0894	.08850	1.4585
#2	1.1094	.17305	1.0864	.08856	1.4698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97391**	**380.17**	**1.0837**	**.0410**	**1.0458**
Stddev	.00037	1.48	.0009	.0243	.0009
%RSD	.03850	.38831	.08096	59.35	.08368
#1	.97418	381.21	1.0831	.0238	1.0464
#2	.97364	379.13	1.0843	.0582	1.0452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99782**	**1.0982**	**.38218**	**1.4789**	**.01307**
Stddev	.00691	.0084	.00315	.0231	.00021
%RSD	.69216	.76644	.82393	1.5645	1.6242
#1	.99293	1.0923	.37995	1.4625	.01292
#2	1.0027	1.1042	.38440	1.4952	.01322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-E MSD Acquired: 8/28/2017 13:59:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6478**	**1.5795**	**.97664**	**1392.1**	**1.1076**
Stddev	.0637	.0063	.00170	4.6	.0027
%RSD	.83328	.39686	.17404	.32775	.24161
#1	7.6028	1.5751	.97544	1388.9	1.1095
#2	7.6929	1.5839	.97784	1395.3	1.1057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0102**	**2.3850**	**1.0466**	**1.0874**	**1.1788**
Stddev	.0034	.0034	.0003	.0032	.0143
%RSD	.16842	.14337	.02636	.29508	1.2168
#1	2.0126	2.3825	1.0464	1.0851	1.1889
#2	2.0078	2.3874	1.0468	1.0896	1.1687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**1.7842**	**-.00009**	**.96414**	**1.0405**
Stddev	.00040	.0070	.00061	.00115	.0026
%RSD	26.832	.39540	701.40	.11934	.24927
#1	.00179	1.7892	.00034	.96496	1.0386
#2	.00122	1.7792	-.00052	.96333	1.0423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-F-2-E MSD Acquired: 8/28/2017 13:59:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**2.5034**
Stddev	.0056
%RSD	.22394
#1	2.4994
#2	2.5074
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2869.9**	**2291.8**	**17665.**	**4077.2**
Stddev	2.8	1.9	29.	6.5
%RSD	.09775	.08172	.16301	.16030
#1	2867.9	2293.1	17686.	4072.5
#2	2871.9	2290.5	17645.	4081.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.702%	85.604%	83.362%	97.384%
Range				

Sample Name: 480-123063-G-3-C Acquired: 8/28/2017 14:02:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.15717	.00703	.16114	1.2404
Stddev	.00115	.01051	.00211	.00022	.0041
%RSD	416.96	6.6838	29.999	.13577	.32955
#1	.00109	.14974	.00554	.16099	1.2375
#2	-.00054	.16460	.00852	.16130	1.2433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00012	509.99	.00848	.0532	.02321
Stddev	.00004	.49	.00001	.0022	.00023
%RSD	34.399	.09634	.09896	4.051	.97753
#1	.00015	509.64	.00847	.0548	.02337
#2	.00009	510.34	.00849	.0517	.02305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.00013	-.00010	1.6005	4.5498	.00664
Stddev	.00108	.00046	.0063	.0288	.00178
%RSD	832.64	454.45	.39244	.63206	26.754
#1	.00063	.00022	1.5960	4.5294	.00790
#2	-.00089	-.00043	1.6049	4.5701	.00538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-G-3-C Acquired: 8/28/2017 14:02:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.695**	**4.9699**	**.00023**	**1477.5**	**.04008**
Stddev	.082	.0225	.00010	2.4	.00060
%RSD	.70359	.45344	44.024	.16083	1.4901
#1	11.637	4.9539	.00030	1475.8	.04050
#2	11.753	4.9858	.00016	1479.2	.03965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9636**	**5.8255**	**.00362**	**.00214**	**4.7218**
Stddev	.0092	.0026	.00010	.00078	.0165
%RSD	.30885	.04407	2.6707	36.716	.34984
#1	2.9701	5.8237	.00355	.00269	4.7335
#2	2.9571	5.8273	.00369	.00158	4.7101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**.95562**	**.00037**	**-.00489**	**.00015**
Stddev	.00020	.00111	.00028	.00160	.00015
%RSD	13.172	.11643	75.034	32.696	104.54
#1	.00168	.95484	.00057	-.00376	.00004
#2	.00140	.95641	.00018	-.00601	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123063-G-3-C Acquired: 8/28/2017 14:02:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	F **22.894**
Stddev	.127
%RSD	.55645
#1	22.804
#2	22.984
Check ?	Chk Fail
High Limit	18.000
Low Limit	-.01000

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2819.0**	**2276.1**	**17512.**	**4107.6**
Stddev	1.1	3.5	36.	.2
%RSD	.03854	.15209	.20371	.00576
#1	2819.8	2278.6	17537.	4107.8
#2	2818.2	2273.7	17487.	4107.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.466%	85.018%	82.637%	98.111%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:06:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51310**	**24.228**	**.50250**	**.50743**	**.49062**
Stddev	.00079	.152	.00014	.00054	.00182
%RSD	.15381	.62568	.02741	.10708	.36997
#1	.51254	24.120	.50241	.50781	.49190
#2	.51366	24.335	.50260	.50704	.48933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50198**	**24.844**	**.50107**	**.0054**	**.48851**
Stddev	.00156	.097	.00104	.0018	.00054
%RSD	.31097	.38872	.20779	34.17	.11084
#1	.50088	24.776	.50180	.0041	.48813
#2	.50308	24.912	.50033	.0066	.48889
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51718**	**.49707**	**24.263**	**24.698**	**.50005**
Stddev	.00274	.00036	.054	.101	.00100
%RSD	.52920	.07327	.22323	.40863	.19908
#1	.51911	.49681	24.225	24.626	.49935
#2	.51524	.49733	24.301	24.769	.50075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:06:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.921**	**.50696**	**.50258**	**24.969**	**.49548**
Stddev	.006	.00202	.00112	.109	.00041
%RSD	.02404	.39927	.22317	.43704	.08197
#1	24.925	.50839	.50179	24.892	.49577
#2	24.916	.50553	.50338	25.046	.49520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49705**	**25.400**	**.49927**	**.50537**	**24.216**
Stddev	.00001	.001	.00142	.00385	.113
%RSD	.00189	.00377	.28449	.76090	.46853
#1	.49704	25.400	.50027	.50808	24.135
#2	.49706	25.401	.49826	.50265	24.296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51097**	**.50249**	**.50337**	**.50769**	**.50830**
Stddev	.00053	.00377	.00106	.00013	.00138
%RSD	.10327	.74943	.21094	.02511	.27228
#1	.51059	.49982	.50412	.50778	.50927
#2	.51134	.50515	.50262	.50760	.50732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:06:35 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51071**
Stddev	.00297
%RSD	.58146
#1	.51281
#2	.50861
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3669.9**	**2592.3**	**20347.**	**4183.5**
Stddev	4.6	1.6	107.	18.8
%RSD	.12657	.06169	.52699	.44823
#1	3673.2	2593.4	20271.	4196.8
#2	3666.7	2591.1	20423.	4170.2

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:10:03 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00023**	**-.00131**	**-.00018**	**-.00012**
Stddev	.00014	.00777	.00220	.00016	.00001
%RSD	23.301	3316.1	168.48	86.092	10.527
#1	.00069	-.00526	.00025	-.00007	-.00013
#2	.00050	.00573	-.00286	-.00029	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00053**	**-.00016**	**.0040**	**-.00010**
Stddev	.00003	.00203	.00002	.0062	.00014
%RSD	22.267	382.81	11.288	157.6	138.80
#1	-.00012	-.00196	-.00015	.0084	-.00000
#2	-.00017	.00090	-.00017	-.0005	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00023**	**-.00688**	**.01631**	**-.00045**
Stddev	.00008	.00119	.00127	.06092	.00090
%RSD	40.600	520.24	18.458	373.60	199.50
#1	.00027	.00107	-.00598	.05939	.00018
#2	.00015	-.00061	-.00778	-.02677	-.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:10:03 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00584**	**-.00005**	**-.00015**	**.11287**	**.00012**
Stddev	.00318	.00001	.00008	.00332	.00018
%RSD	54.510	25.265	52.827	2.9376	151.84
#1	-.00809	-.00006	-.00009	.11521	.00025
#2	-.00359	-.00004	-.00021	.11052	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**-.00519**	**.00012**	**.00220**	**-.00911**
Stddev	.00091	.00120	.00059	.00317	.00097
%RSD	74.820	23.208	495.80	144.24	10.590
#1	-.00186	-.00604	-.00030	-.00004	-.00843
#2	-.00057	-.00434	.00054	.00444	-.00980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.00001**	**-.00018**	**-.00113**	**.00004**
Stddev	.00034	.00003	.00007	.00162	.00034
%RSD	80.586	237.77	36.631	143.66	865.56
#1	-.00066	-.00004	-.00013	.00002	-.00020
#2	-.00018	.00001	-.00022	-.00227	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:10:03 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00089**
Stddev	.00026
%RSD	29.676
#1	.00108
#2	.00070
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4101.5**	**2647.5**	**21210.**	**4203.7**
Stddev	8.5	4.0	114.	16.3
%RSD	.20790	.15259	.53763	.38704
#1	4095.5	2644.6	21290.	4192.1
#2	4107.5	2650.3	21129.	4215.2

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:13:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00621**	**.17916**	**.01361**	**.02028**	**.00195**
Stddev	.00061	.00068	.00188	.00014	.00006
%RSD	9.8808	.37831	13.846	.71015	2.8568
#1	.00664	.17868	.01227	.02038	.00199
#2	.00578	.17964	.01494	.02017	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.50102**	**.00199**	**-.0069**	**.00375**
Stddev	.00000	.00827	.00000	.0139	.00001
%RSD	.03924	1.6510	.05241	200.2	.37832
#1	.00188	.49517	.00199	.0029	.00374
#2	.00188	.50687	.00199	-.0167	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00426**	**.01017**	**.04459**	**.54650**	**.03129**
Stddev	.00010	.00012	.00157	.01882	.00016
%RSD	2.4415	1.1724	3.5256	3.4437	.50990
#1	.00419	.01008	.04570	.53320	.03118
#2	.00433	.01025	.04348	.55981	.03141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:13:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19595**	**.00300**	**.00986**	**1.0897**	**.00954**
Stddev	.00249	.00010	.00008	.0070	.00024
%RSD	1.2732	3.1722	.81205	.64671	2.4868
#1	.19771	.00293	.00992	1.0847	.00971
#2	.19419	.00307	.00981	1.0947	.00938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00906**	**.19493**	**.02039**	**.02538**	**.48904**
Stddev	.00008	.00657	.00088	.00192	.01981
%RSD	.89531	3.3683	4.3103	7.5750	4.0515
#1	.00900	.19957	.02101	.02402	.47503
#2	.00912	.19028	.01976	.02674	.50305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00915**	**.00509**	**.00480**	**.02000**	**.00500**
Stddev	.00028	.00004	.00001	.00072	.00005
%RSD	3.0973	.76911	.25730	3.6239	1.0926
#1	.00935	.00512	.00479	.02051	.00504
#2	.00895	.00506	.00481	.01949	.00496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:13:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01143
Stddev	.00009
%RSD	.78293
#1	.01136
#2	.01149
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4080.7	2652.2	21164.	4196.1
Stddev	2.9	7.9	5.	25.1
%RSD	.07206	.29855	.02465	.59735
#1	4082.8	2646.6	21161.	4213.8
#2	4078.6	2657.8	21168.	4178.4

Sample Name: 480-123128-A-1-C Acquired: 8/28/2017 14:17:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.06916**	**.01055**	**.10188**	**1.1703**
Stddev	.00153	.01057	.00327	.00054	.0023
%RSD	254.53	15.291	31.002	.52837	.19847
#1	-.00048	.07663	.01286	.10150	1.1719
#2	.00168	.06168	.00824	.10226	1.1686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**572.67**	**.00347**	**.0298**	**.05782**
Stddev	.00011	6.20	.00014	.0259	.00026
%RSD	137.07	1.0824	4.1462	87.14	.44222
#1	.00000	568.29	.00337	.0114	.05764
#2	.00015	577.05	.00357	.0481	.05800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00077**	**1.6498**	**3.2766**	**-.00143**
Stddev	.00007	.00105	.0009	.0117	.00133
%RSD	23.659	135.13	.05594	.35782	93.173
#1	-.00024	.00151	1.6505	3.2683	-.00049
#2	-.00034	.00003	1.6492	3.2849	-.00237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123128-A-1-C Acquired: 8/28/2017 14:17:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.6961**	**6.8076**	**.00037**	**1429.7**	**.06484**
Stddev	.0231	.0024	.00029	1.2	.00076
%RSD	.29957	.03454	78.926	.08650	1.1742
#1	7.6798	6.8093	.00016	1430.6	.06430
#2	7.7124	6.8060	.00058	1428.8	.06538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91127**	**3.5165**	**.00848**	**.00132**	**2.5532**
Stddev	.00362	.0002	.00014	.00019	.0173
%RSD	.39678	.00483	1.6048	14.393	.67629
#1	.90871	3.5167	.00838	.00145	2.5654
#2	.91383	3.5164	.00857	.00118	2.5410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**1.5785**	**-.00028**	**-.00416**	**-.00023**
Stddev	.00047	.0054	.00007	.00094	.00057
%RSD	45.185	.34213	25.652	22.619	243.32
#1	.00071	1.5823	-.00033	-.00350	.00017
#2	.00138	1.5746	-.00023	-.00483	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123128-A-1-C Acquired: 8/28/2017 14:17:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.96694
Stddev	.00085
%RSD	.08753
#1	.96634
#2	.96753
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2814.2	2271.0	17605.	4064.6
Stddev	.2	3.8	42.	1.6
%RSD	.00632	.16747	.23727	.03852
#1	2814.1	2273.7	17576.	4063.5
#2	2814.4	2268.3	17635.	4065.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.350%	84.828%	83.079%	97.086%
Range				

Sample Name: 480-122829-2 tot Acquired: 8/28/2017 14:21:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00083**	**.45583**	**.02366**	**.11654**	**8.7877**
Stddev	.00017	.00911	.00110	.00096	.0499
%RSD	20.714	1.9995	4.6517	.82124	.56753
#1	-.00095	.46228	.02288	.11587	8.8230
#2	-.00071	.44939	.02444	.11722	8.7524
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00082**	F **3899.5**	**.00063**	**.3690**	**.08658**
Stddev	.00006	4.5	.00017	.0016	.00001
%RSD	7.7093	.11594	26.551	.4417	.01662
#1	-.00078	3902.7	.00075	.3701	.08659
#2	-.00087	3896.3	.00052	.3678	.08657
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.05461**	**25.776**	F **2359.2**	**.06609**
Stddev	.00049	.00035	.016	28.3	.00449
%RSD	245.93	.64151	.06378	1.1984	6.7949
#1	-.00015	.05486	25.788	2379.2	.06291
#2	.00055	.05437	25.765	2339.2	.06927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-122829-2 tot Acquired: 8/28/2017 14:21:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5194**	**22.175**	**.01201**	F **5249.4**	**.04826**
Stddev	.0417	.058	.00005	27.4	.00028
%RSD	.75475	.26207	.39785	.52179	.58816
#1	5.5489	22.134	.01198	5230.1	.04806
#2	5.4900	22.216	.01204	5268.8	.04846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				4500.0	
Low Limit				-1.0000	

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00371**	**68.744**	**.01016**	**-.01506**	**5.0982**
Stddev	.00304	.168	.00179	.00357	.0269
%RSD	81.927	.24420	17.638	23.704	.52814
#1	-.00156	68.626	.00890	-.01253	5.0791
#2	-.00587	68.863	.01143	-.01758	5.1172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	F **42.242**	**.00739**	**-.00810**	**.00064**
Stddev	.00040	.056	.00056	.00182	.00017
%RSD	22.521	.13347	7.5452	22.507	26.586
#1	.00149	42.202	.00779	-.00681	.00076
#2	.00206	42.282	.00700	-.00939	.00052
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		9.0000			
Low Limit		-.00500			

Sample Name: 480-122829-2 tot Acquired: 8/28/2017 14:21:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04001
Stddev	.00008
%RSD	.19775
#1	.04006
#2	.03995
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2005.5	2063.0	15760.	4073.9
Stddev	3.4	3.2	22.	10.2
%RSD	.16895	.15643	.13870	.25088
#1	2007.9	2065.3	15776.	4081.2
#2	2003.1	2060.7	15745.	4066.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	48.707%	77.059%	74.372%	97.308%
Range				

Sample Name: 480-123104-A-1-ASD@5 Acquired: 8/28/2017 14:25:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00006	9.3115	.00663	.05717	.02028
Stddev	.00097	.0454	.00105	.00058	.00005
%RSD	1591.6	.48809	15.832	1.0186	.24670
#1	-.00062	9.2794	.00737	.05675	.02024
#2	.00074	9.3436	.00588	.05758	.02031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00040	298.45	.00069	.0153	.00386
Stddev	.00000	.72	.00007	.0104	.00008
%RSD	.38311	.23983	10.243	67.89	1.9686
#1	.00040	297.94	.00064	.0227	.00381
#2	.00040	298.95	.00073	.0080	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01369	.00331	11.605	6.3906	.01222
Stddev	.00034	.00089	.042	.0184	.00017
%RSD	2.4707	26.977	.36585	.28838	1.3806
#1	.01345	.00267	11.575	6.4037	.01234
#2	.01393	.00394	11.635	6.3776	.01210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123104-A-1-ASD@5 Acquired: 8/28/2017 14:25:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**183.60**	**.89310**	**-.00023**	**1.2534**	**.00873**
Stddev	1.25	.00516	.00014	.0325	.00027
%RSD	.68012	.57831	59.939	2.5939	3.0903
#1	182.72	.88945	-.00013	1.2764	.00854
#2	184.49	.89676	-.00032	1.2304	.00892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02636**	**6.6547**	**.00050**	**-.00059**	**3.5630**
Stddev	.00029	.0975	.00057	.00241	.0554
%RSD	1.1125	1.4646	114.39	408.42	1.5538
#1	.02657	6.5858	.00091	-.00229	3.6021
#2	.02615	6.7236	.00010	.00111	3.5239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01111**	**.15344**	**.10547**	**-.00087**	**.01347**
Stddev	.00076	.00032	.00384	.00073	.00008
%RSD	6.8564	.21143	3.6444	84.642	.60624
#1	.01057	.15321	.10819	-.00035	.01341
#2	.01164	.15367	.10275	-.00138	.01353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123104-A-1-ASD@5 Acquired: 8/28/2017 14:25:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.07223
Stddev	.00037
%RSD	.51355
#1	.07250
#2	.07197
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3255.5	2428.6	19258.	4135.6
Stddev	3.8	.8	23.	1.4
%RSD	.11689	.03496	.11846	.03342
#1	3258.2	2429.2	19275.	4134.6
#2	3252.8	2428.0	19242.	4136.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.067%	90.715%	90.879%	98.780%
Range				

Sample Name: Filter blank 373301 Acquired: 8/28/2017 14:29:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00203**	**.00239**	**-.00094**	**-.00008**
Stddev	.00015	.01595	.00020	.00021	.00002
%RSD	71.414	787.32	8.5394	22.030	26.967
#1	.00010	-.01331	.00253	-.00080	-.00006
#2	.00031	.00925	.00225	-.00109	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.03319**	**-.00030**	**.0216**	**.00014**
Stddev	.00006	.00005	.00001	.0123	.00006
%RSD	29.633	.14138	4.9204	56.79	45.547
#1	-.00016	.03322	-.00031	.0303	.00010
#2	-.00025	.03315	-.00029	.0129	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.00089**	**-.00562**	**.59676**	**.00145**
Stddev	.00014	.00001	.00028	.06919	.00059
%RSD	26.872	.73122	4.9313	11.594	40.612
#1	-.00062	.00089	-.00542	.54783	.00103
#2	-.00042	.00089	-.00581	.64568	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: Filter blank 373301 Acquired: 8/28/2017 14:29:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00112**	**.00065**	**-.00042**	**.30952**	**.00007**
Stddev	.00208	.00006	.00007	.00670	.00001
%RSD	185.82	9.5066	17.499	2.1647	13.317
#1	.00035	.00060	-.00048	.31426	.00006
#2	-.00259	.00069	-.00037	.30478	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.00521**	**-.00101**	**.00333**	**-.01192**
Stddev	.00037	.00071	.00090	.00037	.00391
%RSD	54.398	13.540	89.456	11.038	32.802
#1	-.00095	.00471	-.00164	.00307	-.00916
#2	-.00042	.00571	-.00037	.00359	-.01469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00108**	**.00005**	**.00027**	**.00027**	**.00008**
Stddev	.00015	.00001	.00016	.00031	.00049
%RSD	14.303	28.584	57.510	116.79	580.73
#1	-.00097	.00006	.00039	.00005	-.00026
#2	-.00119	.00004	.00016	.00049	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: Filter blank 373301 Acquired: 8/28/2017 14:29:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00721
Stddev	.00064
%RSD	8.9328
#1	.00766
#2	.00675
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4255.1	2733.4	21683.	4260.8
Stddev	10.0	2.8	9.	13.7
%RSD	.23429	.10107	.04091	.32128
#1	4262.1	2735.4	21689.	4251.1
#2	4248.0	2731.5	21676.	4270.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	103.34%	102.10%	102.32%	101.77%
Range				

Sample Name: 480-123023-F-2-A Acquired: 8/28/2017 14:32:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**11.973**	**.00638**	**.04274**	**.14976**
Stddev	.00072	.064	.00180	.00012	.00004
%RSD	384.04	.53327	28.260	.27305	.02344
#1	-.00032	11.928	.00510	.04266	.14973
#2	.00070	12.019	.00765	.04282	.14978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**89.424**	**.00031**	**.0236**	**.00912**
Stddev	.00005	.584	.00010	.0238	.00003
%RSD	10.414	.65347	34.181	100.9	.35774
#1	.00049	89.011	.00038	.0404	.00909
#2	.00042	89.837	.00023	.0068	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01631**	**.00926**	**15.617**	**8.2065**	**.01239**
Stddev	.00007	.00061	.068	.0484	.00079
%RSD	.43632	6.5434	.43281	.59019	6.4059
#1	.01636	.00883	15.569	8.1723	.01183
#2	.01626	.00969	15.665	8.2408	.01295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123023-F-2-A Acquired: 8/28/2017 14:32:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.640**	**.77030**	**.00157**	**15.942**	**.02093**
Stddev	.001	.00008	.00014	.044	.00039
%RSD	.00234	.01009	8.6720	.27824	1.8674
#1	29.640	.77035	.00167	15.911	.02065
#2	29.641	.77024	.00147	15.974	.02120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01199**	**49.947**	**-.00030**	**-.00037**	**27.937**
Stddev	.00021	.085	.00059	.00170	.128
%RSD	1.7774	.16961	194.33	460.49	.45756
#1	.01214	50.007	.00011	.00083	27.846
#2	.01184	49.887	-.00072	-.00157	28.027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.17460**	**.29684**	**-.00055**	**.02878**
Stddev	.00015	.00050	.00336	.00109	.00025
%RSD	53.646	.28505	1.1334	200.05	.86428
#1	.00018	.17425	.29446	-.00132	.02860
#2	.00040	.17495	.29922	.00023	.02895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123023-F-2-A Acquired: 8/28/2017 14:32:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.05603
Stddev	.00032
%RSD	.56910
#1	.05581
#2	.05626
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3631.7	2593.6	20567.	4302.9
Stddev	3.8	4.3	73.	29.0
%RSD	.10589	.16453	.35267	.67481
#1	3629.0	2590.6	20618.	4323.4
#2	3634.4	2596.6	20515.	4282.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.204%	96.876%	97.053%	102.78%
Range				

Sample Name: BLANK Acquired: 8/28/2017 14:36:11 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00094**	**.00020**	**-.00073**	**-.00004**
Stddev	.00031	.00859	.00112	.00023	.00002
%RSD	55.791	913.94	566.17	32.200	45.778
#1	.00034	-.00513	-.00059	-.00056	-.00002
#2	.00078	.00701	.00099	-.00089	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.01641**	**-.00015**	**.0010**	**.00002**
Stddev	.00001	.00138	.00007	.0349	.00022
%RSD	5.0240	8.4096	50.666	3365.	1385.6
#1	-.00014	.01544	-.00009	.0257	-.00014
#2	-.00015	.01739	-.00020	-.0236	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00013**	**.01164**	**.27434**	**.00263**
Stddev	.00031	.00036	.00398	.01140	.00010
%RSD	502.16	281.02	34.211	4.1551	3.7148
#1	.00015	.00038	.00882	.26628	.00256
#2	-.00028	-.00013	.01445	.28240	.00270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 14:36:11 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00850**	**.00006**	**-.00040**	**.16509**	**.00008**
Stddev	.00117	.00002	.00013	.00760	.00027
%RSD	13.776	36.499	31.638	4.6060	331.56
#1	-.00767	.00007	-.00049	.15972	-.00011
#2	-.00933	.00004	-.00031	.17047	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00124**	**.00143**	**.00092**	**.00399**	**-.01282**
Stddev	.00112	.00073	.00017	.00059	.00644
%RSD	90.779	51.299	18.327	14.919	50.195
#1	-.00203	.00195	.00080	.00441	-.00827
#2	-.00044	.00091	.00104	.00357	-.01738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00004**	**.00023**	**-.00229**	**-.00009**
Stddev	.00008	.00009	.00014	.00261	.00031
%RSD	139.61	244.10	61.017	113.80	345.04
#1	-.00000	.00003	.00033	-.00414	-.00031
#2	-.00012	-.00010	.00013	-.00045	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 14:36:11 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00209
Stddev	.00030
%RSD	14.309
#1	.00188
#2	.00231
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4082.2	2641.5	21093.	4180.2
Stddev	5.5	6.6	1.	2.0
%RSD	.13551	.25088	.00674	.04706
#1	4078.3	2636.8	21094.	4178.8
#2	4086.1	2646.2	21092.	4181.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.144%	98.668%	99.535%	99.846%
Range				

Sample Name: MB 480-374152/1-A Acquired: 8/28/2017 14:39:49 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00688**	**.00011**	**.00079**	**-.00006**
Stddev	.00103	.01137	.00051	.00008	.00003
%RSD	812.41	165.12	470.73	9.7544	45.294
#1	.00060	-.00115	.00046	.00085	-.00008
#2	-.00086	.01492	-.00025	.00074	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.02272**	**-.00015**	**.0052**	**-.00001**
Stddev	.00000	.00051	.00013	.0026	.00010
%RSD	4.0701	2.2444	86.664	49.20	734.00
#1	-.00009	.02236	-.00024	.0070	-.00008
#2	-.00010	.02308	-.00006	.0034	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00018**	**.00027**	**.19682**	**-.00052**
Stddev	.00029	.00018	.00352	.00039	.00157
%RSD	1354.2	96.626	1282.0	.20028	301.00
#1	-.00023	.00006	-.00222	.19710	-.00163
#2	.00018	.00031	.00277	.19655	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-374152/1-A Acquired: 8/28/2017 14:39:49 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00390**	**.00084**	**-.00032**	**.14415**	**.00001**
Stddev	.00187	.00006	.00010	.01152	.00005
%RSD	47.953	7.4493	31.838	7.9920	978.06
#1	-.00523	.00079	-.00025	.15230	.00004
#2	-.00258	.00088	-.00039	.13600	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	**.00268**	**.00065**	**.00499**	**-.01031**
Stddev	.00026	.00085	.00053	.00482	.00046
%RSD	20.286	31.904	81.621	96.683	4.4537
#1	-.00145	.00207	.00103	.00840	-.00998
#2	-.00109	.00328	.00028	.00158	-.01063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**.00013**	**-.00017**	**-.00086**	**.00043**
Stddev	.00065	.00006	.00011	.00035	.00058
%RSD	90.404	44.055	62.226	41.210	135.34
#1	-.00118	.00017	-.00025	-.00111	.00002
#2	-.00026	.00009	-.00010	-.00061	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-374152/1-A Acquired: 8/28/2017 14:39:49 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00101
Stddev	.00031
%RSD	30.887
#1	.00079
#2	.00124
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4129.4	2667.4	21323.	4265.3
Stddev	.4	.8	29.	21.9
%RSD	.00896	.02964	.13767	.51452
#1	4129.2	2667.9	21344.	4249.8
#2	4129.7	2666.8	21302.	4280.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.29%	99.633%	100.62%	101.88%
Range				

Sample Name: LCS 480-374152/2-A Acquired: 8/28/2017 14:43:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04850**	**10.064**	**.20223**	**.20909**	**.20427**
Stddev	.00043	.036	.00086	.00060	.00014
%RSD	.88477	.35730	.42609	.28461	.06943
#1	.04881	10.089	.20284	.20951	.20437
#2	.04820	10.038	.20162	.20867	.20417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20222**	**9.9768**	**.20685**	**.0094**	**.19143**
Stddev	.00035	.0007	.00054	.0051	.00007
%RSD	.17445	.00677	.26210	54.16	.03694
#1	.20247	9.9763	.20723	.0130	.19148
#2	.20197	9.9773	.20646	.0058	.19138
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20683**	**.20122**	**10.206**	**10.057**	**.20713**
Stddev	.00079	.00069	.010	.073	.00083
%RSD	.38427	.34073	.09582	.72839	.39866
#1	.20627	.20171	10.213	10.005	.20655
#2	.20740	.20074	10.200	10.108	.20772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-374152/2-A Acquired: 8/28/2017 14:43:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.358**	**.20944**	**.20611**	**10.026**	**.19649**
Stddev	.002	.00008	.00089	.012	.00025
%RSD	.02129	.03863	.43334	.12064	.12938
#1	10.357	.20950	.20674	10.034	.19667
#2	10.360	.20939	.20548	10.017	.19631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20347**	**10.126**	**.20410**	**.20564**	**10.058**
Stddev	.00091	.019	.00222	.00102	.025
%RSD	.44888	.18826	1.0870	.49463	.24600
#1	.20412	10.139	.20567	.20636	10.075
#2	.20283	10.112	.20253	.20492	10.040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18215**	**.20279**	**.20083**	**.20687**	**.20949**
Stddev	.00081	.00013	.00069	.00214	.00001
%RSD	.44486	.06343	.34452	1.0332	.00671
#1	.18272	.20288	.20132	.20839	.20950
#2	.18157	.20269	.20034	.20536	.20948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-374152/2-A Acquired: 8/28/2017 14:43:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20717
Stddev	.00080
%RSD	.38821
#1	.20774
#2	.20660
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3871.5	2636.0	20908.	4279.6
Stddev	3.4	4.3	7.	.4
%RSD	.08712	.16219	.03246	.00985
#1	3869.1	2633.0	20903.	4279.3
#2	3873.9	2639.1	20912.	4279.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.027%	98.463%	98.662%	102.22%
Range				

Sample Name: LCSD 480-374152/3-A Acquired: 8/28/2017 14:46:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04861**	**10.052**	**.20160**	**.20857**	**.20410**
Stddev	.00028	.011	.00103	.00026	.00068
%RSD	.56714	.11132	.50961	.12500	.33305
#1	.04881	10.059	.20087	.20875	.20362
#2	.04842	10.044	.20232	.20838	.20458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20173**	**9.9061**	**.20547**	**-.0115**	**.18970**
Stddev	.00156	.0551	.00002	.0249	.00034
%RSD	.77288	.55580	.00966	217.2	.18138
#1	.20063	9.8671	.20545	.0061	.18995
#2	.20283	9.9450	.20548	-.0291	.18946
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20297**	**.20144**	**10.089**	**10.079**	**.20625**
Stddev	.00078	.00287	.044	.101	.00013
%RSD	.38648	1.4260	.43676	.99919	.06265
#1	.20242	.19941	10.058	10.008	.20635
#2	.20353	.20348	10.120	10.150	.20616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-374152/3-A Acquired: 8/28/2017 14:46:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.247**	**.20765**	**.20417**	**10.086**	**.19471**
Stddev	.017	.00037	.00016	.040	.00031
%RSD	.16328	.18036	.07825	.39176	.16171
#1	10.236	.20738	.20428	10.058	.19493
#2	10.259	.20791	.20405	10.114	.19448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20177**	**10.113**	**.20377**	**.20564**	**10.051**
Stddev	.00251	.010	.00009	.00303	.026
%RSD	1.2428	.09946	.04278	1.4716	.25800
#1	.19999	10.120	.20371	.20778	10.032
#2	.20354	10.106	.20383	.20350	10.069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18223**	**.20434**	**.19934**	**.20289**	**.20795**
Stddev	.00016	.00054	.00063	.00017	.00016
%RSD	.08586	.26504	.31654	.08362	.07569
#1	.18212	.20396	.19978	.20277	.20806
#2	.18234	.20472	.19889	.20301	.20784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-374152/3-A Acquired: 8/28/2017 14:46:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20456**
Stddev	.00169
%RSD	.82766
#1	.20576
#2	.20336
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3872.6**	**2633.9**	**20893.**	**4265.0**
Stddev	4.5	4.1	5.	75.1
%RSD	.11684	.15604	.02360	1.7603
#1	3869.4	2631.0	20896.	4318.1
#2	3875.8	2636.8	20890.	4211.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.054%	98.382%	98.593%	101.87%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:50:20 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51147**	**24.028**	**.50279**	**.50443**	**.49232**
Stddev	.00478	.036	.00050	.00032	.00206
%RSD	.93375	.15114	.09963	.06382	.41805
#1	.51485	24.054	.50314	.50466	.49087
#2	.50809	24.002	.50243	.50420	.49378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49802**	**24.520**	**.50038**	**-.0092**	**.48827**
Stddev	.00174	.064	.00049	.0014	.00063
%RSD	.34971	.26143	.09705	15.71	.12929
#1	.49925	24.566	.50072	-.0102	.48782
#2	.49679	24.475	.50003	-.0082	.48872
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51405**	**.49912**	**23.763**	**25.015**	**.50668**
Stddev	.00077	.00189	.105	.145	.00367
%RSD	.15025	.37808	.44235	.58069	.72375
#1	.51351	.50045	23.837	25.117	.50927
#2	.51460	.49778	23.689	24.912	.50408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:50:20 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.906**	**.50663**	**.50113**	**24.955**	**.49673**
Stddev	.045	.00016	.00003	.096	.00183
%RSD	.18034	.03181	.00629	.38605	.36801
#1	24.937	.50674	.50111	25.023	.49544
#2	24.874	.50651	.50115	24.887	.49802
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49565**	**25.346**	**.49788**	**.50594**	**23.900**
Stddev	.00114	.020	.00056	.00193	.018
%RSD	.22916	.07757	.11279	.38155	.07679
#1	.49645	25.360	.49748	.50730	23.887
#2	.49485	25.332	.49827	.50457	23.913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51103**	**.50109**	**.50129**	**.50406**	**.50600**
Stddev	.00193	.00167	.00028	.00262	.00078
%RSD	.37742	.33399	.05578	.51975	.15450
#1	.50966	.50227	.50149	.50591	.50656
#2	.51239	.49991	.50110	.50221	.50545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 14:50:20 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50590**
Stddev	.00117
%RSD	.23132
#1	.50507
#2	.50673
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3673.8**	**2598.2**	**20343.**	**4205.0**
Stddev	.1	1.0	.	15.6
%RSD	.00383	.03834	.00138	.37141
#1	3673.7	2597.5	20343.	4193.9
#2	3673.9	2599.0	20343.	4216.0

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:53:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.00167**	**.00147**	**-.00017**	**-.00011**
Stddev	.00007	.03359	.00177	.00008	.00002
%RSD	13.090	2014.5	120.16	44.628	14.059
#1	-.00052	-.02208	.00022	-.00022	-.00010
#2	-.00062	.02542	.00272	-.00012	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00001**	**-.00017**	**.0066**	**.00000**
Stddev	.00003	.00355	.00002	.0156	.00016
%RSD	30.078	24945.	13.488	236.8	8355.0
#1	-.00008	-.00252	-.00019	.0177	-.00011
#2	-.00013	.00250	-.00016	-.0045	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00022**	**-.00382**	**.17215**	**.00184**
Stddev	.00019	.00027	.00002	.02914	.00001
%RSD	76.120	125.24	.46058	16.925	.62283
#1	.00011	.00002	-.00381	.19275	.00183
#2	.00037	.00041	-.00383	.15154	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:53:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00738**	**.00002**	**-.00009**	**.08578**	**.00054**
Stddev	.00202	.00005	.00005	.00220	.00030
%RSD	27.348	267.27	49.107	2.5629	56.632
#1	-.00595	-.00002	-.00006	.08733	.00032
#2	-.00881	.00005	-.00013	.08422	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**-.00142**	**.00127**	**.00254**	**-.00862**
Stddev	.00037	.00053	.00038	.00112	.00695
%RSD	30.465	37.289	29.654	43.930	80.641
#1	-.00149	-.00180	.00154	.00333	-.00370
#2	-.00096	-.00105	.00101	.00175	-.01353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00001**	**.00008**	**-.00052**	**.00050**
Stddev	.00001	.00003	.00030	.00098	.00035
%RSD	5.5336	242.30	367.23	187.28	70.497
#1	-.00014	-.00001	.00029	.00017	.00025
#2	-.00013	.00003	-.00013	-.00122	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 14:53:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00069
Stddev	.00030
%RSD	43.024
#1	.00048
#2	.00089
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4113.8	2657.8	21261.	4214.5
Stddev	2.5	6.9	21.	4.4
%RSD	.06126	.25798	.09744	.10360
#1	4112.1	2653.0	21246.	4217.6
#2	4115.6	2662.7	21275.	4211.4

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:57:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00634**	**.18408**	**.01470**	**.01987**	**.00197**
Stddev	.00033	.01914	.00119	.00025	.00005
%RSD	5.1441	10.400	8.0623	1.2477	2.5467
#1	.00657	.17054	.01386	.02005	.00200
#2	.00611	.19762	.01554	.01970	.00193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49945**	**.00204**	**.0081**	**.00378**
Stddev	.00001	.00383	.00011	.0021	.00003
%RSD	.32987	.76607	5.5239	25.90	.70479
#1	.00193	.50215	.00196	.0066	.00380
#2	.00194	.49674	.00212	.0095	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	**.00941**	**.04551**	**.58858**	**.02785**
Stddev	.00067	.00117	.00124	.00145	.00042
%RSD	15.548	12.468	2.7266	.24556	1.5146
#1	.00478	.01024	.04639	.58960	.02755
#2	.00383	.00858	.04463	.58755	.02815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:57:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19646**	**.00299**	**.00982**	**1.1001**	**.00980**
Stddev	.00269	.00011	.00002	.0033	.00002
%RSD	1.3681	3.7810	.18239	.30160	.19070
#1	.19836	.00307	.00981	1.1024	.00982
#2	.19456	.00291	.00983	1.0977	.00979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00799**	**.19762**	**.01935**	**.02608**	**.48428**
Stddev	.00012	.00011	.00037	.00125	.01096
%RSD	1.4427	.05662	1.9158	4.7798	2.2626
#1	.00807	.19770	.01961	.02696	.47653
#2	.00791	.19754	.01909	.02520	.49203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00904**	**.00498**	**.00464**	**.01997**	**.00498**
Stddev	.00024	.00011	.00019	.00021	.00035
%RSD	2.6549	2.2150	4.1246	1.0650	7.0020
#1	.00887	.00506	.00477	.01982	.00522
#2	.00921	.00490	.00450	.02012	.00473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 14:57:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01152
Stddev	.00044
%RSD	3.7941
#1	.01121
#2	.01183
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4066.8	2651.3	21130.	4185.5
Stddev	.2	4.2	32.	33.3
%RSD	.00610	.15948	.15000	.79579
#1	4067.0	2648.3	21108.	4209.1
#2	4066.6	2654.2	21153.	4162.0

Sample Name: 480-122778-E-19-D Acquired: 8/28/2017 15:01:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.28169**	**.00023**	**.01907**	**.04729**
Stddev	.00064	.03317	.00092	.00033	.00002
%RSD	946.42	11.775	396.77	1.7255	.04341
#1	.00038	.25823	.00088	.01884	.04727
#2	-.00052	.30514	-.00042	.01930	.04730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**68.785**	**.00013**	**-.0110**	**.00039**
Stddev	.00008	.137	.00004	.0098	.00001
%RSD	102.38	.19936	27.032	89.56	1.8616
#1	-.00014	68.882	.00011	-.0040	.00039
#2	-.00002	68.688	.00015	-.0179	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00279**	**.00195**	**1.5995**	**2.0624**	**-.00041**
Stddev	.00007	.00060	.0076	.0113	.00036
%RSD	2.4228	30.796	.47657	.54812	89.935
#1	.00284	.00238	1.6049	2.0544	-.00015
#2	.00274	.00153	1.5941	2.0704	-.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122778-E-19-D Acquired: 8/28/2017 15:01:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.959**	**.06490**	**.00028**	**5.1096**	**.00228**
Stddev	.014	.00027	.00004	.0002	.00008
%RSD	.04764	.42201	15.179	.00420	3.3752
#1	28.949	.06510	.00031	5.1097	.00223
#2	28.968	.06471	.00025	5.1094	.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**10.110**	**-.00213**	**.00431**	**7.2788**
Stddev	.00074	.012	.00032	.00120	.0018
%RSD	82.868	.11962	15.240	27.765	.02495
#1	.00142	10.101	-.00190	.00516	7.2775
#2	.00037	10.119	-.00236	.00347	7.2801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.09578**	**.01349**	**-.00079**	**.00181**
Stddev	.00010	.00001	.00032	.00070	.00002
%RSD	37.124	.01128	2.3987	88.250	.84202
#1	.00033	.09579	.01372	-.00030	.00180
#2	.00019	.09577	.01327	-.00129	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122778-E-19-D Acquired: 8/28/2017 15:01:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00341
Stddev	.00082
%RSD	24.034
#1	.00398
#2	.00283
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3749.2	2581.4	20480.	4213.6
Stddev	.3	1.0	66.	7.7
%RSD	.00795	.03740	.32402	.18378
#1	3749.4	2582.1	20433.	4219.0
#2	3749.0	2580.7	20526.	4208.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.058%	96.420%	96.642%	100.64%
Range				

Sample Name: 480-122778-E-18-D Acquired: 8/28/2017 15:04:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.01632**	**.00410**	**.01756**	**.05927**
Stddev	.00043	.00358	.00089	.00006	.00001
%RSD	124.96	21.938	21.633	.35641	.01573
#1	-.00064	.01885	.00473	.01760	.05926
#2	-.00004	.01379	.00347	.01751	.05927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**94.397**	**.00015**	**-.0079**	**-.00005**
Stddev	.00008	.618	.00004	.0248	.00013
%RSD	44.400	.65441	26.400	312.6	278.40
#1	-.00023	94.833	.00012	.0096	.00004
#2	-.00012	93.960	.00018	-.0255	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**.00014**	**.07209**	**2.1100**	**.00229**
Stddev	.00020	.00063	.00068	.0259	.00089
%RSD	13.328	462.16	.94576	1.2249	39.061
#1	.00139	.00058	.07257	2.1283	.00166
#2	.00168	-.00031	.07161	2.0918	.00292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122778-E-18-D Acquired: 8/28/2017 15:04:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.848**	**.00183**	**-.00003**	**12.381**	**.02176**
Stddev	.034	.00001	.00002	.051	.00072
%RSD	.11029	.72182	65.094	.41322	3.3212
#1	30.872	.00182	-.00005	12.417	.02125
#2	30.823	.00184	-.00002	12.345	.02227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00117**	**8.7736**	**-.00185**	**.00298**	**7.8368**
Stddev	.00022	.0142	.00110	.00038	.0017
%RSD	18.563	.16212	59.358	12.778	.02200
#1	.00132	8.7837	-.00107	.00271	7.8380
#2	.00101	8.7635	-.00262	.00325	7.8355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.11138**	**-.00026**	**-.00200**	**-.00016**
Stddev	.00013	.00083	.00019	.00026	.00047
%RSD	30.728	.74222	71.442	12.788	298.04
#1	-.00050	.11197	-.00013	-.00218	-.00049
#2	-.00032	.11080	-.00039	-.00182	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122778-E-18-D Acquired: 8/28/2017 15:04:40 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00297
Stddev	.00050
%RSD	16.703
#1	.00332
#2	.00262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3679.1	2554.4	20330.	4192.4
Stddev	8.1	6.0	9.	16.7
%RSD	.22111	.23658	.04579	.39866
#1	3673.3	2550.1	20337.	4180.6
#2	3684.8	2558.6	20324.	4204.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.355%	95.411%	95.937%	100.14%
Range				

Sample Name: 480-122703-D-2-B Acquired: 8/28/2017 15:08:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**1.3081**	**.00191**	**.26261**	**.29912**
Stddev	.00043	.0052	.00235	.00062	.00090
%RSD	2169.5	.39632	122.85	.23699	.30128
#1	-.00028	1.3045	.00025	.26217	.29848
#2	.00032	1.3118	.00357	.26305	.29976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**172.28**	**.00016**	**-.0006**	**.00051**
Stddev	.00004	.94	.00018	.0070	.00002
%RSD	24.904	.54608	111.91	1179.	3.5953
#1	-.00013	172.94	.00029	.0043	.00049
#2	-.00018	171.61	.00003	-.0055	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00261**	**.00230**	**13.075**	**3.4094**	**.00049**
Stddev	.00008	.00125	.035	.0245	.00043
%RSD	3.2017	54.338	.26995	.71978	86.030
#1	.00267	.00319	13.100	3.3920	.00079
#2	.00255	.00142	13.050	3.4267	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122703-D-2-B Acquired: 8/28/2017 15:08:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.519**	**1.0910**	**.00036**	**16.827**	**.00214**
Stddev	.132	.0039	.00011	.004	.00031
%RSD	.36086	.35260	29.909	.02284	14.312
#1	36.426	1.0883	.00028	16.824	.00236
#2	36.612	1.0937	.00043	16.830	.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**5.1671**	**-.00041**	**.00161**	**6.6204**
Stddev	.00025	.0186	.00147	.00152	.0782
%RSD	26.494	.36064	362.23	94.434	1.1810
#1	.00114	5.1803	-.00145	.00268	6.6757
#2	.00078	5.1539	.00063	.00053	6.5651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.38274**	**.03263**	**-.00029**	**.00268**
Stddev	.00055	.00135	.00393	.00103	.00047
%RSD	146.71	.35387	12.057	359.39	17.481
#1	-.00001	.38369	.03541	-.00101	.00235
#2	.00076	.38178	.02984	.00044	.00301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122703-D-2-B Acquired: 8/28/2017 15:08:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00949**
Stddev	.00040
%RSD	4.1766
#1	.00921
#2	.00977
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3544.0**	**2527.6**	**20103.**	**4192.2**
Stddev	5.1	1.0	53.	19.0
%RSD	.14263	.03972	.26607	.45425
#1	3547.6	2528.3	20141.	4178.7
#2	3540.4	2526.9	20065.	4205.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.074%	94.412%	94.866%	100.13%
Range				

Sample Name: 480-122703-D-6-B Acquired: 8/28/2017 15:11:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.32536**	**.00278**	**5.4695**	**1.1406**
Stddev	.00028	.01793	.00235	.0018	.0028
%RSD	412.20	5.5108	84.740	.03279	.24288
#1	.00027	.31269	.00444	5.4708	1.1426
#2	-.00013	.33804	.00111	5.4683	1.1387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**192.21**	**.00032**	**-.0338**	**.00745**
Stddev	.00005	.43	.00017	.0061	.00008
%RSD	52.110	.22611	53.319	18.10	1.0620
#1	-.00014	192.52	.00020	-.0381	.00740
#2	-.00007	191.90	.00045	-.0295	.00751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01122**	**.04431**	**13.170**	**141.45**	**.09461**
Stddev	.00006	.00021	.029	.20	.00133
%RSD	.55643	.47140	.21907	.13876	1.4103
#1	.01127	.04446	13.150	141.59	.09367
#2	.01118	.04416	13.191	141.31	.09555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122703-D-6-B Acquired: 8/28/2017 15:11:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**140.81**	**.38116**	**-.00012**	**426.08**	**.00991**
Stddev	.06	.00033	.00006	.30	.00019
%RSD	.04110	.08561	49.908	.07044	1.9184
#1	140.77	.38093	-.00016	426.30	.00977
#2	140.85	.38139	-.00008	425.87	.01004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00606**	**11.763**	**-.00132**	**.00043**	**18.322**
Stddev	.00214	.034	.00206	.00573	.036
%RSD	35.281	.29295	155.96	1318.6	.19442
#1	.00757	11.787	.00014	.00449	18.347
#2	.00455	11.739	-.00278	-.00362	18.297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**2.6210**	**.01575**	**-.00274**	**.00218**
Stddev	.00069	.0100	.00049	.00086	.00043
%RSD	36.820	.37973	3.1191	31.271	19.697
#1	.00235	2.6280	.01610	-.00214	.00187
#2	.00138	2.6139	.01540	-.00335	.00248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122703-D-6-B Acquired: 8/28/2017 15:11:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.08519
Stddev	.00199
%RSD	2.3366
#1	.08660
#2	.08379
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3106.7	2357.4	18500.	4140.7
Stddev	3.8	3.7	5.	11.1
%RSD	.12229	.15659	.02832	.26748
#1	3104.0	2354.8	18496.	4132.9
#2	3109.4	2360.0	18503.	4148.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.453%	88.054%	87.299%	98.903%
Range				

Sample Name: 480-122527-B-5-C Acquired: 8/28/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00166**	**.88744**	**.00085**	**.03057**	**.04298**
Stddev	.00004	.01960	.00136	.00077	.00005
%RSD	2.3741	2.2088	159.82	2.5346	.12707
#1	.00163	.87358	.00182	.03112	.04302
#2	.00169	.90130	-.00011	.03002	.04294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**1.9657**	**-.00005**	**-.0086**	**.00022**
Stddev	.00005	.0036	.00005	.0112	.00006
%RSD	94.594	.18385	112.37	130.9	29.342
#1	-.00009	1.9682	-.00001	-.0006	.00026
#2	-.00002	1.9631	-.00008	-.0165	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.00035**	**1.2593**	**1.0120**	**-.00142**
Stddev	.00039	.00031	.0080	.0265	.00009
%RSD	91.642	87.284	.63298	2.6175	6.0726
#1	-.00071	.00013	1.2649	1.0307	-.00148
#2	-.00015	.00057	1.2537	.99324	-.00136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122527-B-5-C Acquired: 8/28/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1693**	**.00298**	**-.00041**	**5.5367**	**.00051**
Stddev	.0133	.00003	.00003	.0064	.00046
%RSD	.61414	1.1125	7.1229	.11496	90.665
#1	2.1787	.00301	-.00043	5.5322	.00083
#2	2.1598	.00296	-.00039	5.5412	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**8.1255**	**.00120**	**.00612**	**2.3902**
Stddev	.00079	.0027	.00093	.00381	.0039
%RSD	64.144	.03376	77.268	62.287	.16296
#1	-.00067	8.1275	.00054	.00343	2.3874
#2	-.00179	8.1236	.00186	.00882	2.3929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.02465**	**.00041**	**-.00137**	**.00208**
Stddev	.00005	.00004	.00012	.00054	.00042
%RSD	51.505	.16229	30.162	39.280	20.295
#1	-.00006	.02462	.00050	-.00175	.00238
#2	-.00014	.02468	.00032	-.00099	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122527-B-5-C Acquired: 8/28/2017 15:15:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00231
Stddev	.00064
%RSD	27.480
#1	.00276
#2	.00187
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4041.3	2659.9	21228.	4274.5
Stddev	2.5	1.5	11.	1.1
%RSD	.06174	.05773	.05387	.02654
#1	4043.1	2661.0	21236.	4275.3
#2	4039.6	2658.9	21220.	4273.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.152%	99.355%	100.17%	102.10%
Range				

Sample Name: 480-123261-C-1-A Acquired: 8/28/2017 15:19:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.03099**	**.00470**	**.08377**	**.26062**
Stddev	.00028	.00393	.00166	.00025	.00004
%RSD	73.048	12.667	35.448	.29905	.01441
#1	.00057	.03376	.00352	.08395	.26059
#2	.00018	.02821	.00587	.08360	.26064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**104.84**	**.00024**	**.0134**	**.00004**
Stddev	.00004	.29	.00002	.0067	.00024
%RSD	20.165	.27956	6.5512	49.79	659.15
#1	-.00023	105.05	.00023	.0181	-.00013
#2	-.00017	104.64	.00026	.0087	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.04426**	**2.7610**	**11.787**	**.00290**
Stddev	.00004	.00010	.0053	.030	.00010
%RSD	116.82	.21980	.19304	.25639	3.3686
#1	-.00007	.04433	2.7648	11.809	.00297
#2	-.00001	.04419	2.7573	11.766	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-1-A Acquired: 8/28/2017 15:19:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.001**	**.40389**	**.00046**	**383.25**	**.00048**
Stddev	.042	.00005	.00008	.93	.00044
%RSD	.27857	.01155	16.809	.24288	91.594
#1	14.971	.40385	.00040	383.91	.00017
#2	15.030	.40392	.00051	382.59	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**4.7268**	**-.00076**	**.00288**	**7.2302**
Stddev	.00077	.0008	.00162	.00440	.0266
%RSD	71.439	.01778	212.36	152.66	.36772
#1	.00163	4.7274	-.00191	.00600	7.2490
#2	.00054	4.7262	.00038	-.00023	7.2114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.65850**	**-.00020**	**-.00199**	**.00006**
Stddev	.00066	.00192	.00005	.00040	.00015
%RSD	256.25	.29095	26.609	19.897	248.35
#1	-.00072	.65986	-.00024	-.00171	.00017
#2	.00021	.65715	-.00016	-.00227	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-1-A Acquired: 8/28/2017 15:19:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02177
Stddev	.00002
%RSD	.07998
#1	.02176
#2	.02179
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3289.1	2455.3	19037.	4166.6
Stddev	.7	1.7	2.	20.3
%RSD	.02220	.06923	.01001	.48837
#1	3289.6	2454.1	19036.	4152.2
#2	3288.6	2456.5	19038.	4181.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.883%	91.710%	89.835%	99.520%
Range				

Sample Name: 480-123261-C-2-A Acquired: 8/28/2017 15:22:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.10219**	**.00396**	**.08248**	**.24260**
Stddev	.00062	.00162	.00157	.00006	.00009
%RSD	5025.1	1.5896	39.573	.07856	.03595
#1	-.00043	.10333	.00507	.08243	.24254
#2	.00045	.10104	.00285	.08253	.24266
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**102.77**	**.00007**	**-.0095**	**-.00023**
Stddev	.00006	.22	.00002	.0045	.00008
%RSD	38.939	.21021	33.944	47.25	36.035
#1	-.00012	102.92	.00005	-.0063	-.00017
#2	-.00021	102.61	.00008	-.0126	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.03970**	**1.4326**	**11.971**	**.00451**
Stddev	.00007	.00178	.0051	.084	.00009
%RSD	4296.7	4.4823	.35334	.69805	1.8890
#1	-.00005	.04096	1.4362	12.030	.00457
#2	.00005	.03844	1.4290	11.912	.00445
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-A Acquired: 8/28/2017 15:22:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.140**	**.18528**	**.00019**	**388.31**	**.00177**
Stddev	.052	.00075	.00015	2.47	.00014
%RSD	.34280	.40477	78.412	.63524	7.7726
#1	15.103	.18475	.00008	390.05	.00187
#2	15.177	.18581	.00029	386.56	.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**4.2669**	**-.00082**	**.00114**	**7.0169**
Stddev	.00172	.0037	.00020	.00082	.0228
%RSD	59.709	.08553	23.772	71.410	.32500
#1	.00411	4.2643	-.00096	.00057	7.0330
#2	.00167	4.2695	-.00069	.00172	7.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.65214**	**.00034**	**-.00233**	**.00001**
Stddev	.00014	.00157	.00038	.00058	.00046
%RSD	59.007	.24086	113.91	24.742	4416.7
#1	-.00014	.65325	.00061	-.00274	-.00031
#2	-.00034	.65103	.00007	-.00192	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-A Acquired: 8/28/2017 15:22:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04538
Stddev	.00051
%RSD	1.1165
#1	.04574
#2	.04502
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3280.1	2451.2	19046.	4154.2
Stddev	6.0	3.4	27.	29.3
%RSD	.18392	.13912	.14384	.70581
#1	3284.4	2453.6	19066.	4133.4
#2	3275.8	2448.7	19027.	4174.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.664%	91.557%	89.878%	99.224%
Range				

Sample Name: 480-123261-C-2-ASD@5 Acquired: 8/28/2017 15:26:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.01800**	**.00088**	**.01680**	**.04884**
Stddev	.00019	.00765	.00049	.00007	.00003
%RSD	72.464	42.527	56.140	.41646	.06367
#1	.00040	.01259	.00053	.01685	.04887
#2	.00013	.02341	.00123	.01676	.04882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**20.335**	**-.00003**	**-.0116**	**-.00009**
Stddev	.00009	.008	.00001	.0071	.00006
%RSD	45.619	.04108	33.716	61.31	66.477
#1	-.00026	20.341	-.00004	-.0167	-.00005
#2	-.00013	20.329	-.00002	-.0066	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00779**	**.28451**	**2.4523**	**.00159**
Stddev	.00025	.00003	.00381	.0004	.00299
%RSD	144.70	.38791	1.3402	.01559	188.11
#1	.00000	.00776	.28182	2.4526	-.00052
#2	-.00035	.00781	.28721	2.4520	.00370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-ASD@5 Acquired: 8/28/2017 15:26:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0602**	**.03716**	**-.00016**	**77.484**	**.00020**
Stddev	.0152	.00014	.00043	.480	.00075
%RSD	.49633	.36923	275.79	.61983	370.16
#1	3.0710	.03725	-.00046	77.144	-.00033
#2	3.0495	.03706	.00015	77.824	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.79453**	**.00108**	**.00163**	**1.3777**
Stddev	.00135	.00241	.00046	.00115	.0075
%RSD	1031.0	.30347	42.569	70.867	.54374
#1	.00083	.79282	.00075	.00245	1.3830
#2	-.00109	.79623	.00140	.00081	1.3724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.12910**	**.00006**	**-.00083**	**.00008**
Stddev	.00040	.00004	.00027	.00005	.00054
%RSD	324.42	.03351	442.71	5.6033	661.15
#1	-.00041	.12913	-.00013	-.00086	.00046
#2	.00016	.12907	.00025	-.00079	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-ASD@5 Acquired: 8/28/2017 15:26:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00966
Stddev	.00043
%RSD	4.4799
#1	.00936
#2	.00997
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3675.1	2565.8	20144.	4130.6
Stddev	.5	4.7	56.	12.3
%RSD	.01425	.18129	.27822	.29768
#1	3675.5	2569.1	20104.	4139.3
#2	3674.7	2562.5	20183.	4121.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.258%	95.840%	95.057%	98.662%
Range				

Sample Name: 480-123261-C-2-APDS Acquired: 8/28/2017 15:30:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05272	9.8995	.21857	.28078	.42372
Stddev	.00065	.0908	.00172	.00150	.00028
%RSD	1.2254	.91719	.78860	.53557	.06553
#1	.05227	9.9637	.21735	.27971	.42392
#2	.05318	9.8353	.21979	.28184	.42352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20711	109.32	.21359	-.0208	.20370
Stddev	.00172	.76	.00058	.0122	.00024
%RSD	.83149	.69672	.27153	58.50	.11817
#1	.20833	109.86	.21318	-.0294	.20387
#2	.20589	108.78	.21400	-.0122	.20353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20892	.24316	11.487	21.434	.20452
Stddev	.00074	.00055	.110	.138	.00424
%RSD	.35192	.22803	.95947	.64313	2.0727
#1	.20944	.24355	11.565	21.531	.20752
#2	.20840	.24277	11.409	21.336	.20153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-APDS Acquired: 8/28/2017 15:30:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.645**	**.38252**	**.20193**	**384.86**	**.20819**
Stddev	.049	.00122	.00008	3.01	.00031
%RSD	.19945	.31940	.03940	.78218	.14804
#1	24.679	.38338	.20188	386.99	.20797
#2	24.610	.38165	.20199	382.73	.20841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21577**	**15.175**	**.21329**	**.21604**	**17.062**
Stddev	.00004	.029	.00105	.00099	.097
%RSD	.01692	.19321	.49205	.45888	.56920
#1	.21580	15.154	.21403	.21534	17.131
#2	.21575	15.196	.21255	.21674	16.993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21977**	**.83072**	**.20525**	**.20070**	**.21222**
Stddev	.00011	.00647	.00018	.00260	.00292
%RSD	.05220	.77871	.08653	1.2975	1.3770
#1	.21969	.83529	.20538	.19886	.21429
#2	.21985	.82614	.20513	.20255	.21015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-APDS Acquired: 8/28/2017 15:30:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.25844
Stddev	.00067
%RSD	.26081
#1	.25891
#2	.25796
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3268.4	2471.7	19246.	4162.9
Stddev	2.5	.5	32.	32.5
%RSD	.07723	.01857	.16605	.78033
#1	3266.6	2472.0	19223.	4139.9
#2	3270.2	2471.3	19269.	4185.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.380%	92.323%	90.821%	99.431%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 15:33:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50892**	**24.035**	**.50246**	**.50585**	**.48859**
Stddev	.00121	.121	.00199	.00002	.00184
%RSD	.23754	.50273	.39562	.00370	.37687
#1	.50978	23.949	.50386	.50584	.48729
#2	.50807	24.120	.50105	.50586	.48989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49901**	**24.626**	**.49977**	**-.0084**	**.48866**
Stddev	.00159	.025	.00131	.0027	.00016
%RSD	.31888	.10136	.26232	32.07	.03226
#1	.49788	24.608	.50070	-.0065	.48855
#2	.50013	24.643	.49885	-.0103	.48877
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51337**	**.49617**	**23.763**	**24.974**	**.50692**
Stddev	.00094	.00045	.033	.014	.00305
%RSD	.18347	.09077	.13849	.05725	.60229
#1	.51404	.49585	23.786	24.984	.50476
#2	.51271	.49649	23.740	24.964	.50908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 15:33:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.797**	**.50682**	**.50307**	**25.105**	**.49603**
Stddev	.074	.00108	.00057	.032	.00030
%RSD	.29982	.21353	.11349	.12855	.06063
#1	24.850	.50759	.50347	25.082	.49624
#2	24.745	.50606	.50267	25.128	.49582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49445**	**25.391**	**.50054**	**.50152**	**23.989**
Stddev	.00144	.042	.00333	.00148	.068
%RSD	.29145	.16410	.66477	.29497	.28166
#1	.49344	25.420	.50290	.50047	23.941
#2	.49547	25.361	.49819	.50257	24.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50983**	**.50392**	**.50070**	**.50646**	**.50591**
Stddev	.00010	.00120	.00311	.00261	.00070
%RSD	.01962	.23877	.62069	.51604	.13757
#1	.50990	.50307	.50290	.50831	.50640
#2	.50976	.50478	.49850	.50461	.50541
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 15:33:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50610**
Stddev	.00167
%RSD	.32994
#1	.50729
#2	.50492
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3671.6**	**2594.0**	**20378.**	**4176.0**
Stddev	.7	2.4	36.	2.7
%RSD	.01776	.09412	.17600	.06479
#1	3672.1	2592.3	20353.	4177.9
#2	3671.1	2595.7	20404.	4174.1

Sample Name: CCB-4204839 Acquired: 8/28/2017 15:37:05 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00357**	**.00091**	**.00073**	**-.00009**
Stddev	.00111	.00666	.00159	.00011	.00000
%RSD	272.53	186.61	175.26	14.500	3.6756
#1	.00119	-.00827	.00203	.00065	-.00009
#2	-.00038	.00114	-.00022	.00080	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00180**	**-.00026**	**-.0027**	**-.00008**
Stddev	.00002	.00336	.00005	.0211	.00003
%RSD	9.5209	186.73	20.868	771.5	33.032
#1	-.00018	-.00417	-.00022	-.0176	-.00010
#2	-.00016	.00058	-.00030	.0122	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00027**	**-.00576**	**.06072**	**-.00013**
Stddev	.00013	.00018	.00263	.02518	.00105
%RSD	70.160	68.400	45.699	41.462	830.26
#1	.00028	-.00014	-.00762	.07852	.00061
#2	.00009	-.00040	-.00390	.04292	-.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 15:37:05 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00290**	**-.00003**	**-.00019**	**.06745**	**-.00000**
Stddev	.00222	.00002	.00000	.00071	.00024
%RSD	76.692	52.278	.51496	1.0555	123570.
#1	-.00447	-.00004	-.00019	.06695	.00017
#2	-.00133	-.00002	-.00019	.06796	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00456**	**.00112**	**.00323**	**-.00877**
Stddev	.00063	.00150	.00085	.00096	.00162
%RSD	395.33	32.943	75.995	29.673	18.465
#1	.00028	-.00562	.00052	.00391	-.00762
#2	-.00060	-.00350	.00172	.00256	-.00991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00002**	**.00003**	**-.00067**	**.00033**
Stddev	.00001	.00010	.00016	.00026	.00005
%RSD	7.9511	518.62	526.39	38.558	14.024
#1	.00007	.00009	.00014	-.00049	.00036
#2	.00006	-.00005	-.00008	-.00086	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 15:37:05 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00097
Stddev	.00066
%RSD	67.872
#1	.00143
#2	.00050
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4117.1	2661.5	21212.	4222.5
Stddev	6.2	2.8	95.	31.7
%RSD	.14982	.10649	.44930	.75096
#1	4121.5	2663.5	21279.	4200.1
#2	4112.8	2659.5	21144.	4244.9

Sample Name: CCVL-4195955 Acquired: 8/28/2017 15:40:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00582**	**.17822**	**.01456**	**.02104**	**.00196**
Stddev	.00026	.02726	.00205	.00018	.00003
%RSD	4.4384	15.298	14.069	.87649	1.3945
#1	.00563	.19750	.01311	.02091	.00194
#2	.00600	.15894	.01601	.02117	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.50729**	**.00199**	**.0227**	**.00372**
Stddev	.00006	.00224	.00000	.0205	.00016
%RSD	3.0116	.44067	.11825	90.11	4.1938
#1	.00194	.50571	.00200	.0082	.00361
#2	.00203	.50887	.00199	.0372	.00383
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00443**	**.00961**	**.04237**	**.57497**	**.03015**
Stddev	.00035	.00107	.00242	.00399	.00081
%RSD	7.8663	11.089	5.7122	.69481	2.6769
#1	.00419	.00886	.04066	.57780	.03072
#2	.00468	.01036	.04408	.57215	.02958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 15:40:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19229**	**.00304**	**.00994**	**1.0839**	**.00959**
Stddev	.00545	.00003	.00011	.0090	.00016
%RSD	2.8343	.99220	1.0935	.83394	1.6485
#1	.19615	.00302	.00986	1.0775	.00948
#2	.18844	.00307	.01002	1.0902	.00971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00814**	**.19428**	**.01803**	**.02737**	**.49958**
Stddev	.00014	.00189	.00058	.00179	.00042
%RSD	1.7027	.97070	3.2224	6.5300	.08431
#1	.00824	.19295	.01845	.02611	.49928
#2	.00804	.19561	.01762	.02863	.49988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00913**	**.00496**	**.00477**	**.01803**	**.00518**
Stddev	.00010	.00002	.00064	.00071	.00000
%RSD	1.1389	.30822	13.339	3.9475	.04727
#1	.00906	.00495	.00432	.01854	.00519
#2	.00920	.00497	.00522	.01753	.00518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 15:40:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01098**
Stddev	.00048
%RSD	4.4057
#1	.01063
#2	.01132
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4087.0**	**2653.1**	**21156.**	**4186.0**
Stddev	1.5	4.2	119.	10.7
%RSD	.03688	.15810	.56273	.25599
#1	4088.1	2650.2	21241.	4178.4
#2	4085.9	2656.1	21072.	4193.6

Sample Name: 480-123261-C-2-B MS Acquired: 8/28/2017 15:44:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05044	10.312	.21553	.28917	.43788
Stddev	.00005	.008	.00286	.00054	.00086
%RSD	.10455	.07622	1.3269	.18832	.19688
#1	.05047	10.306	.21351	.28955	.43849
#2	.05040	10.317	.21755	.28878	.43727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20534	114.30	.21121	-.0229	.20244
Stddev	.00043	.10	.00027	.0168	.00010
%RSD	.20923	.08999	.12692	73.38	.05044
#1	.20565	114.37	.21140	-.0110	.20237
#2	.20504	114.23	.21103	-.0347	.20251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20531	.24314	11.426	22.090	.21063
Stddev	.00135	.00146	.028	.006	.00034
%RSD	.65913	.60125	.24278	.02674	.16374
#1	.20627	.24417	11.446	22.095	.21038
#2	.20436	.24210	11.406	22.086	.21087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-B MS Acquired: 8/28/2017 15:44:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.112**	**.39017**	**.20570**	**401.23**	**.20857**
Stddev	.058	.00052	.00037	.22	.00010
%RSD	.22900	.13261	.17867	.05475	.04898
#1	25.153	.39054	.20596	401.39	.20864
#2	25.071	.38981	.20544	401.08	.20849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21453**	**15.174**	**.20776**	**.21109**	**17.388**
Stddev	.00084	.022	.00048	.00135	.026
%RSD	.39094	.14715	.22991	.64067	.15127
#1	.21512	15.189	.20810	.21204	17.407
#2	.21393	15.158	.20742	.21013	17.370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19698**	**.87583**	**.20413**	**.19955**	**.21264**
Stddev	.00012	.00089	.00047	.00078	.00062
%RSD	.06051	.10118	.22783	.39319	.29271
#1	.19706	.87646	.20446	.20011	.21308
#2	.19689	.87521	.20380	.19900	.21220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-B MS Acquired: 8/28/2017 15:44:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.25703**
Stddev	.00243
%RSD	.94712
#1	.25875
#2	.25531
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3249.7**	**2459.0**	**19133.**	**4161.0**
Stddev	.8	.8	45.	2.6
%RSD	.02495	.03244	.23281	.06279
#1	3249.1	2458.5	19102.	4159.2
#2	3250.3	2459.6	19165.	4162.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.926%	91.851%	90.288%	99.388%
Range				

Sample Name: 480-123261-C-2-C MSD Acquired: 8/28/2017 15:47:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05076	10.225	.21630	.28446	.42591
Stddev	.00103	.031	.00256	.00018	.00286
%RSD	2.0286	.29958	1.1828	.06438	.67086
#1	.05003	10.203	.21810	.28433	.42389
#2	.05149	10.247	.21449	.28459	.42793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20588	108.87	.21121	.0173	.20182
Stddev	.00041	.07	.00025	.0173	.00008
%RSD	.20033	.05980	.11640	100.0	.03923
#1	.20559	108.92	.21104	.0051	.20176
#2	.20617	108.83	.21139	.0295	.20188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20721	.24073	11.366	21.422	.21048
Stddev	.00053	.00181	.015	.021	.00059
%RSD	.25358	.75289	.12862	.09716	.27814
#1	.20758	.23945	11.376	21.407	.21089
#2	.20684	.24201	11.355	21.437	.21006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-C MSD Acquired: 8/28/2017 15:47:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.461**	**.38116**	**.20594**	**380.90**	**.20794**
Stddev	.114	.00176	.00010	.36	.00024
%RSD	.46806	.46225	.04695	.09358	.11630
#1	24.380	.37991	.20587	381.15	.20777
#2	24.542	.38241	.20601	380.64	.20811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21425**	**14.839**	**.20501**	**.21479**	**16.947**
Stddev	.00154	.016	.00094	.00032	.042
%RSD	.72041	.10568	.45891	.15089	.25007
#1	.21315	14.828	.20435	.21502	16.917
#2	.21534	14.850	.20568	.21456	16.977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19591**	**.83686**	**.20503**	**.20025**	**.21348**
Stddev	.00037	.00084	.00095	.00008	.00163
%RSD	.18870	.10010	.46148	.03893	.76140
#1	.19617	.83745	.20436	.20020	.21233
#2	.19565	.83626	.20570	.20031	.21463
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-2-C MSD Acquired: 8/28/2017 15:47:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.25547
Stddev	.00093
%RSD	.36510
#1	.25481
#2	.25613
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3267.9	2464.7	19074.	4133.5
Stddev	2.7	1.0	45.	.1
%RSD	.08401	.04028	.23606	.00181
#1	3266.0	2464.0	19106.	4133.5
#2	3269.9	2465.4	19042.	4133.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.369%	92.061%	90.010%	98.731%
Range				

Sample Name: 480-123261-B-3-A Acquired: 8/28/2017 15:51:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.14830**	**.00505**	**.08496**	**.26765**
Stddev	.00055	.00590	.00126	.00001	.00058
%RSD	81.188	3.9815	24.841	.01436	.21600
#1	-.00107	.14413	.00594	.08495	.26725
#2	-.00029	.15248	.00417	.08497	.26806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**108.31**	**.00031**	**-.0089**	**.00002**
Stddev	.00004	.05	.00021	.0178	.00009
%RSD	22.477	.04517	69.363	199.3	401.88
#1	-.00013	108.27	.00046	.0036	.00009
#2	-.00018	108.34	.00016	-.0215	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.06165**	**2.6096**	**12.201**	**.00359**
Stddev	.00093	.00104	.0115	.031	.00073
%RSD	167.60	1.6898	.43926	.25403	20.396
#1	.00010	.06238	2.6015	12.223	.00411
#2	-.00121	.06091	2.6177	12.179	.00307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-B-3-A Acquired: 8/28/2017 15:51:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.576**	**.43762**	**.00061**	**396.83**	**.00183**
Stddev	.004	.00048	.00004	.28	.00002
%RSD	.02680	.11063	6.1921	.06958	1.1168
#1	15.573	.43728	.00059	396.64	.00181
#2	15.578	.43797	.00064	397.03	.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00254**	**4.5819**	**-.00044**	**.00013**	**7.4744**
Stddev	.00093	.0002	.00103	.00097	.0192
%RSD	36.649	.00368	234.85	724.98	.25722
#1	.00320	4.5818	-.00117	.00082	7.4608
#2	.00188	4.5820	.00029	-.00055	7.4880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.67769**	**.00044**	**.00004**	**.00057**
Stddev	.00007	.00148	.00075	.00013	.00062
%RSD	13.108	.21859	169.82	325.48	109.25
#1	.00061	.67874	.00097	-.00005	.00013
#2	.00050	.67665	-.00009	.00013	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-B-3-A Acquired: 8/28/2017 15:51:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.04429**
Stddev	.00028
%RSD	.63454
#1	.04448
#2	.04409
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3281.4**	**2453.4**	**19050.**	**4137.6**
Stddev	.1	.7	11.	3.6
%RSD	.00392	.03012	.05922	.08733
#1	3281.5	2452.8	19058.	4140.2
#2	3281.4	2453.9	19042.	4135.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.697%	91.639%	89.897%	98.829%
Range				

Sample Name: 480-123261-B-4-A Acquired: 8/28/2017 15:55:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.15285**	**.00785**	**.08208**	**.25470**
Stddev	.00047	.02476	.00267	.00032	.00046
%RSD	303.25	16.202	34.042	.38802	.18116
#1	.00049	.17036	.00974	.08185	.25502
#2	-.00018	.13534	.00596	.08230	.25437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**103.91**	**.00012**	**.0033**	**-.00021**
Stddev	.00002	.12	.00009	.0004	.00011
%RSD	22.681	.11441	76.843	13.37	51.416
#1	-.00007	104.00	.00006	.0030	-.00013
#2	-.00010	103.83	.00019	.0036	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.05137**	**2.4020**	**12.058**	**.00299**
Stddev	.00045	.00168	.0025	.039	.00204
%RSD	944.48	3.2693	.10483	.32297	68.179
#1	.00036	.05256	2.4002	12.086	.00444
#2	-.00027	.05018	2.4038	12.031	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-B-4-A Acquired: 8/28/2017 15:55:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.293**	**.17361**	**.00058**	**391.45**	**.00070**
Stddev	.031	.00030	.00015	.30	.00009
%RSD	.20219	.17208	25.600	.07579	12.308
#1	15.315	.17340	.00047	391.24	.00064
#2	15.271	.17382	.00068	391.66	.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**4.2400**	**-.00083**	**.00365**	**7.0878**
Stddev	.00110	.0012	.00066	.00335	.0143
%RSD	97.904	.02926	79.519	91.632	.20145
#1	.00190	4.2409	-.00036	.00602	7.0979
#2	.00035	4.2391	-.00129	.00129	7.0777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.66499**	**-.00029**	**-.00019**	**-.00001**
Stddev	.00062	.00076	.00002	.00009	.00075
%RSD	196.89	.11368	8.4437	45.985	6951.8
#1	.00076	.66552	-.00031	-.00013	-.00054
#2	-.00012	.66445	-.00027	-.00025	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-B-4-A Acquired: 8/28/2017 15:55:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03368
Stddev	.00108
%RSD	3.1987
#1	.03444
#2	.03292
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3277.6	2454.3	19031.	4158.5
Stddev	2.2	.7	28.	20.8
%RSD	.06765	.02947	.14497	.50119
#1	3276.1	2453.8	19011.	4143.8
#2	3279.2	2454.8	19050.	4173.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.604%	91.674%	89.805%	99.328%
Range				

Sample Name: 480-123256-G-4-A Acquired: 8/28/2017 15:58:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.29749**	**.00088**	**.50911**	**.07600**
Stddev	.00043	.03987	.00105	.00043	.00041
%RSD	44.839	13.403	118.18	.08393	.53940
#1	.00126	.26929	.00015	.50941	.07571
#2	.00065	.32568	.00162	.50881	.07629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**178.51**	**.00044**	**.0096**	**.00127**
Stddev	.00004	.45	.00018	.0105	.00005
%RSD	19.730	.25402	39.941	109.5	4.0324
#1	-.00016	178.19	.00032	.0171	.00130
#2	-.00021	178.83	.00057	.0022	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00174**	**.20530**	**9.6637**	**.00377**
Stddev	.00026	.00047	.00256	.0905	.00038
%RSD	93.517	27.260	1.2461	.93639	10.112
#1	-.00046	.00207	.20349	9.5997	.00404
#2	-.00009	.00140	.20711	9.7277	.00350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123256-G-4-A Acquired: 8/28/2017 15:58:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**71.551**	**.24357**	**.00334**	**50.957**	**.00655**
Stddev	.428	.00127	.00012	.261	.00034
%RSD	.59813	.52210	3.6091	.51269	5.1257
#1	71.248	.24267	.00325	50.772	.00679
#2	71.853	.24447	.00342	51.141	.00632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**40.806**	**-.00149**	**.00442**	**5.9453**
Stddev	.00076	.097	.00276	.00166	.1006
%RSD	147.50	.23700	185.36	37.655	1.6913
#1	.00002	40.874	-.00344	.00559	5.8742
#2	-.00105	40.738	.00046	.00324	6.0164
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.79064**	**.00496**	**-.00110**	**.00058**
Stddev	.00025	.00258	.00026	.00064	.00049
%RSD	741.29	.32665	5.2410	58.796	84.112
#1	.00021	.78881	.00514	-.00155	.00093
#2	-.00014	.79246	.00477	-.00064	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123256-G-4-A Acquired: 8/28/2017 15:58:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00518
Stddev	.00101
%RSD	19.452
#1	.00446
#2	.00589
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3443.4	2474.4	19601.	4126.3
Stddev	4.5	6.7	115.	12.6
%RSD	.12923	.27068	.58601	.30512
#1	3440.3	2469.7	19682.	4135.2
#2	3446.6	2479.2	19520.	4117.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.631%	92.426%	92.496%	98.559%
Range				

Sample Name: 480-123260-A-6-A Acquired: 8/28/2017 16:02:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.10026**	**.00245**	**.00881**	**.03234**
Stddev	.00117	.00071	.00045	.00029	.00004
%RSD	3004.0	.70733	18.335	3.2550	.13381
#1	-.00087	.10076	.00277	.00902	.03237
#2	.00079	.09976	.00213	.00861	.03231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**44.499**	**-.00011**	**.0003**	**-.00005**
Stddev	.00007	.314	.00006	.0034	.00012
%RSD	42.530	.70521	54.387	1123.	231.59
#1	-.00011	44.277	-.00007	-.0021	.00003
#2	-.00020	44.721	-.00015	.0027	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00044**	**.07671**	**4.7382**	**.00295**
Stddev	.00037	.00051	.00125	.0683	.00025
%RSD	1886.0	116.95	1.6253	1.4406	8.4119
#1	-.00028	-.00008	.07759	4.6899	.00277
#2	.00024	-.00080	.07583	4.7864	.00312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-A-6-A Acquired: 8/28/2017 16:02:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6698**	**.03142**	**.00059**	**14.930**	**.00096**
Stddev	.0225	.00003	.00007	.112	.00049
%RSD	.25980	.09065	12.362	.74845	51.376
#1	8.6539	.03144	.00064	14.851	.00061
#2	8.6857	.03140	.00054	15.009	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**14.777**	**-.00097**	**-.00026**	**6.0626**
Stddev	.00108	.020	.00097	.00018	.0835
%RSD	196.96	.13683	99.762	69.994	1.3782
#1	.00131	14.791	-.00028	-.00013	6.0035
#2	-.00022	14.763	-.00165	-.00038	6.1217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.15935**	**.00419**	**-.00068**	**.00041**
Stddev	.00057	.00107	.00010	.00121	.00001
%RSD	1499.9	.66958	2.3275	178.10	3.3805
#1	-.00044	.15859	.00426	-.00153	.00040
#2	.00036	.16010	.00412	.00018	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-A-6-A Acquired: 8/28/2017 16:02:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00728
Stddev	.00004
%RSD	.53060
#1	.00725
#2	.00731
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3833.9	2588.8	20593.	4219.6
Stddev	8.6	4.8	97.	20.6
%RSD	.22395	.18544	.47224	.48938
#1	3840.0	2592.2	20525.	4234.2
#2	3827.8	2585.4	20662.	4205.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.114%	96.697%	97.179%	100.79%
Range				

Sample Name: 480-123224-C-1-A Acquired: 8/28/2017 16:05:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.11777**	**.00443**	**.23505**	**.01018**
Stddev	.00017	.00812	.00004	.00035	.00004
%RSD	552.35	6.8968	.96591	.14796	.36230
#1	-.00009	.11203	.00440	.23529	.01021
#2	.00015	.12351	.00446	.23480	.01015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**40.484**	**-.00014**	**.0312**	**-.00029**
Stddev	.00006	.150	.00022	.0191	.00017
%RSD	50.139	.37003	155.10	61.16	58.595
#1	-.00007	40.378	.00001	.0177	-.00041
#2	-.00016	40.590	-.00029	.0448	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00025**	**.27084**	**2.0001**	**-.00071**
Stddev	.00033	.00023	.00040	.0193	.00151
%RSD	289.25	91.073	.14677	.96416	212.24
#1	.00012	-.00042	.27056	1.9865	.00036
#2	-.00035	-.00009	.27112	2.0138	-.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123224-C-1-A Acquired: 8/28/2017 16:05:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1650**	**.02352**	**.01339**	**35.895**	**.00066**
Stddev	.0114	.00007	.00023	.215	.00027
%RSD	.35958	.30075	1.6954	.60025	41.762
#1	3.1570	.02347	.01355	35.742	.00046
#2	3.1731	.02357	.01323	36.047	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**18.047**	**-.00074**	**.00265**	**7.3344**
Stddev	.00034	.028	.00003	.00307	.0321
%RSD	35.061	.15319	4.0560	115.70	.43820
#1	.00121	18.067	-.00076	.00048	7.3571
#2	.00073	18.027	-.00072	.00482	7.3116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.10113**	**.00407**	**-.00059**	**.00088**
Stddev	.00025	.00064	.00148	.00035	.00026
%RSD	213.94	.62888	36.398	59.485	29.626
#1	.00006	.10068	.00512	-.00083	.00106
#2	-.00030	.10158	.00303	-.00034	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123224-C-1-A Acquired: 8/28/2017 16:05:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00208
Stddev	.00024
%RSD	11.650
#1	.00225
#2	.00190
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3797.2	2586.8	20568.	4193.4
Stddev	.5	.1	66.	15.2
%RSD	.01392	.00426	.32328	.36332
#1	3797.6	2586.9	20615.	4204.1
#2	3796.8	2586.7	20521.	4182.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.223%	96.624%	97.060%	100.16%
Range				

Sample Name: 480-123224-C-2-A Acquired: 8/28/2017 16:09:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.84083**	**.00110**	**.65925**	**.03431**
Stddev	.00023	.06091	.00098	.00196	.00021
%RSD	65.918	7.2445	89.137	.29730	.60526
#1	-.00019	.79776	.00041	.65786	.03416
#2	-.00051	.88390	.00179	.66063	.03446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**53.183**	**.00003**	**-.0012**	**.00202**
Stddev	.00019	.171	.00013	.0256	.00005
%RSD	118.85	.32209	383.86	2072.	2.5162
#1	-.00003	53.062	.00013	.0169	.00205
#2	-.00030	53.304	-.00006	-.0193	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00224**	**.70957**	**2.4784**	**.00035**
Stddev	.00040	.00011	.00772	.0082	.00120
%RSD	135.29	4.8802	1.0886	.33211	346.81
#1	.00001	.00231	.70411	2.4842	.00119
#2	.00057	.00216	.71503	2.4725	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123224-C-2-A Acquired: 8/28/2017 16:09:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9067**	**1.0582**	**.00077**	**51.845**	**.00160**
Stddev	.0215	.0050	.00030	.067	.00012
%RSD	.24102	.46930	38.589	.12977	7.3734
#1	8.8915	1.0547	.00097	51.798	.00151
#2	8.9219	1.0617	.00056	51.893	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**1.7558**	**.00092**	**.00058**	**7.9607**
Stddev	.00036	.0003	.00053	.00249	.0758
%RSD	22.597	.01562	57.589	426.62	.95171
#1	.00134	1.7560	.00129	.00235	7.9071
#2	.00185	1.7556	.00054	-.00118	8.0143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.12802**	**.01423**	**-.00074**	**.00150**
Stddev	.00029	.00064	.00109	.00095	.00003
%RSD	100.15	.49916	7.6742	128.00	2.0102
#1	-.00050	.12757	.01346	-.00007	.00152
#2	-.00009	.12847	.01500	-.00141	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123224-C-2-A Acquired: 8/28/2017 16:09:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00426**
Stddev	.00020
%RSD	4.7558
#1	.00412
#2	.00441
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3702.4**	**2575.8**	**20292.**	**4191.2**
Stddev	7.5	3.9	67.	22.4
%RSD	.20151	.15117	.32999	.53432
#1	3707.7	2578.5	20339.	4207.1
#2	3697.1	2573.0	20245.	4175.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.921%	96.211%	95.757%	100.11%
Range				

Sample Name: 480-123274-B-1-A Acquired: 8/28/2017 16:13:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**.34566**	**.00291**	**.12803**	**.25238**
Stddev	.00000	.01394	.00062	.00006	.00002
%RSD	.82607	4.0331	21.445	.04965	.00680
#1	-.00052	.35552	.00247	.12808	.25239
#2	-.00053	.33581	.00335	.12799	.25237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**341.03**	**-.00010**	**.0162**	**-.00010**
Stddev	.00000	2.44	.00027	.0004	.00005
%RSD	1.6981	.71486	261.81	2.199	52.269
#1	-.00014	342.75	.00009	.0160	-.00013
#2	-.00014	339.30	-.00030	.0165	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00264**	**-.00346**	**23.578**	**14.084**	**.00187**
Stddev	.00046	.00022	.027	.034	.00067
%RSD	17.240	6.2690	.11442	.24318	35.875
#1	.00232	-.00362	23.559	14.060	.00234
#2	.00297	-.00331	23.597	14.108	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-1-A Acquired: 8/28/2017 16:13:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.065**	**1.5729**	**.00069**	**211.70**	**.00196**
Stddev	.003	.0007	.00018	.24	.00028
%RSD	.00690	.04414	25.422	.11242	14.483
#1	39.063	1.5725	.00057	211.87	.00216
#2	39.067	1.5734	.00082	211.53	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00636**	F **96.262**	**-.00275**	**.00529**	**11.814**
Stddev	.00059	.194	.00056	.00140	.038
%RSD	9.2430	.20110	20.353	26.448	.32005
#1	.00594	96.399	-.00314	.00627	11.841
#2	.00678	96.125	-.00235	.00430	11.788
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**1.6987**	**.01488**	**-.00164**	**.00244**
Stddev	.00059	.0026	.00044	.00113	.00047
%RSD	139.58	.15011	2.9815	68.834	19.294
#1	.00084	1.7005	.01519	-.00244	.00277
#2	.00001	1.6969	.01457	-.00084	.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-1-A Acquired: 8/28/2017 16:13:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00517
Stddev	.00060
%RSD	11.535
#1	.00475
#2	.00560
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3235.4	2393.5	18888.	4080.1
Stddev	7.4	6.0	25.	14.4
%RSD	.22864	.24945	.13443	.35236
#1	3240.6	2397.7	18906.	4069.9
#2	3230.1	2389.3	18870.	4090.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.578%	89.403%	89.131%	97.454%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:16:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51171**	**24.188**	**.50227**	**.50728**	**.48605**
Stddev	.00042	.175	.00537	.00054	.00194
%RSD	.08162	.72165	1.0688	.10570	.40008
#1	.51200	24.311	.50607	.50690	.48468
#2	.51141	24.064	.49848	.50766	.48743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50043**	**24.698**	**.50080**	**-.0129**	**.48784**
Stddev	.00271	.144	.00078	.0125	.00004
%RSD	.54063	.58336	.15541	96.52	.00829
#1	.50234	24.799	.50025	-.0217	.48782
#2	.49851	24.596	.50135	-.0041	.48787
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51252**	**.49580**	**23.732**	**25.006**	**.50899**
Stddev	.00294	.00011	.100	.097	.00308
%RSD	.57309	.02319	.41941	.38983	.60608
#1	.51045	.49588	23.802	25.075	.51117
#2	.51460	.49571	23.662	24.937	.50681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:16:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.791**	**.50527**	**.50273**	**25.175**	**.49445**
Stddev	.097	.00041	.00057	.131	.00009
%RSD	.39125	.08077	.11334	.51942	.01840
#1	24.723	.50498	.50233	25.267	.49452
#2	24.860	.50556	.50314	25.082	.49439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49315**	**25.431**	**.50120**	**.50985**	**24.006**
Stddev	.00262	.001	.00110	.00476	.094
%RSD	.53169	.00393	.21977	.93291	.39199
#1	.49500	25.432	.50042	.50649	24.073
#2	.49129	25.430	.50197	.51321	23.940
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51070**	**.50654**	**.49995**	**.50581**	**.50524**
Stddev	.00017	.00276	.00043	.00369	.00046
%RSD	.03334	.54460	.08674	.73012	.09170
#1	.51082	.50849	.49964	.50320	.50491
#2	.51058	.50459	.50025	.50842	.50557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:16:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50530**
Stddev	.00325
%RSD	.64220
#1	.50301
#2	.50760
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3678.2**	**2594.2**	**20378.**	**4134.1**
Stddev	4.5	3.3	111.	16.0
%RSD	.12167	.12823	.54648	.38664
#1	3675.0	2591.9	20457.	4122.8
#2	3681.4	2596.6	20299.	4145.4

Sample Name: CCB-4204839 Acquired: 8/28/2017 16:20:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.00238**	**.00248**	**.00021**	**-.00010**
Stddev	.00057	.00466	.00065	.00019	.00001
%RSD	74.390	195.74	25.997	89.588	8.0108
#1	-.00036	.00091	.00294	.00008	-.00009
#2	-.00117	-.00567	.00203	.00034	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00245**	**-.00030**	**.0042**	**-.00002**
Stddev	.00001	.00325	.00006	.0165	.00015
%RSD	6.9370	132.75	21.014	391.1	667.84
#1	-.00015	.00015	-.00025	.0159	.00008
#2	-.00017	.00475	-.00034	-.0075	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00016**	**-.00552**	**.09165**	**-.00036**
Stddev	.00010	.00026	.00033	.01264	.00013
%RSD	62.549	159.33	6.0637	13.789	35.930
#1	.00009	.00002	-.00576	.10059	-.00045
#2	.00023	-.00035	-.00528	.08271	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 16:20:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00356**	**-.00001**	**-.00020**	**.03768**	**.00051**
Stddev	.00400	.00003	.00012	.00375	.00021
%RSD	112.41	300.78	59.043	9.9608	40.565
#1	-.00639	-.00003	-.00028	.03503	.00066
#2	-.00073	.00001	-.00012	.04034	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**-.00311**	**-.00006**	**.00346**	**-.01547**
Stddev	.00044	.00208	.00137	.00305	.00011
%RSD	62.659	66.905	2430.0	87.908	.70778
#1	-.00039	-.00164	.00091	.00562	-.01539
#2	-.00102	-.00458	-.00102	.00131	-.01555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00001**	**.00021**	**-.00170**	**.00007**
Stddev	.00065	.00006	.00027	.00021	.00073
%RSD	146.98	435.56	130.48	12.435	1099.1
#1	-.00091	.00005	.00002	-.00155	-.00045
#2	.00002	-.00003	.00040	-.00185	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 16:20:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00121
Stddev	.00022
%RSD	18.387
#1	.00137
#2	.00105
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4104.1	2656.7	21095.	4105.5
Stddev	.4	.1	40.	1.5
%RSD	.01009	.00486	.19068	.03601
#1	4103.8	2656.6	21123.	4104.4
#2	4104.4	2656.7	21066.	4106.5

Sample Name: CCVL-4195955 Acquired: 8/28/2017 16:23:51 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00546**	**.18803**	**.01681**	**.02080**	**.00200**
Stddev	.00046	.00148	.00187	.00009	.00001
%RSD	8.4990	.78453	11.102	.44075	.56909
#1	.00513	.18907	.01549	.02086	.00200
#2	.00579	.18698	.01813	.02073	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**.49602**	**.00196**	**-.0147**	**.00371**
Stddev	.00002	.00306	.00000	.0029	.00009
%RSD	1.2004	.61667	.17755	19.70	2.3359
#1	.00193	.49386	.00196	-.0126	.00377
#2	.00189	.49818	.00196	-.0167	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00411**	**.01025**	**.04280**	**.56611**	**.02889**
Stddev	.00020	.00027	.00061	.02741	.00020
%RSD	4.7841	2.6796	1.4192	4.8425	.67973
#1	.00425	.01045	.04237	.54672	.02875
#2	.00397	.01006	.04323	.58549	.02903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 16:23:51 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20052**	**.00301**	**.00971**	**1.0576**	**.00962**
Stddev	.00004	.00002	.00017	.0017	.00003
%RSD	.01947	.56663	1.7943	.15665	.26371
#1	.20049	.00300	.00983	1.0564	.00961
#2	.20055	.00302	.00958	1.0588	.00964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00939**	**.19509**	**.01895**	**.02542**	**.51163**
Stddev	.00017	.00372	.00089	.00259	.01724
%RSD	1.7999	1.9089	4.6869	10.193	3.3698
#1	.00951	.19772	.01832	.02359	.49944
#2	.00927	.19246	.01957	.02725	.52382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00927**	**.00506**	**.00466**	**.01906**	**.00557**
Stddev	.00021	.00010	.00084	.00023	.00012
%RSD	2.2305	1.8793	18.020	1.1988	2.2439
#1	.00941	.00499	.00525	.01922	.00566
#2	.00912	.00513	.00406	.01890	.00548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 16:23:51 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01076**
Stddev	.00011
%RSD	1.0056
#1	.01084
#2	.01068
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4074.6**	**2650.4**	**21100.**	**4128.9**
Stddev	1.6	1.9	16.	7.3
%RSD	.03932	.07182	.07495	.17601
#1	4075.7	2649.0	21089.	4123.8
#2	4073.4	2651.7	21111.	4134.1

Sample Name: 480-123274-B-2-A Acquired: 8/28/2017 16:27:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**1.3571**	**.00170**	**.56331**	**.14401**
Stddev	.00065	.0074	.00040	.00006	.00013
%RSD	107.17	.54366	23.862	.01038	.08769
#1	-.00106	1.3623	.00198	.56335	.14392
#2	-.00015	1.3519	.00141	.56326	.14410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**149.05**	**.00003**	**.0146**	**.00082**
Stddev	.00009	.05	.00016	.0015	.00003
%RSD	58.616	.03656	618.55	10.56	3.9447
#1	-.00009	149.09	-.00009	.0135	.00084
#2	-.00022	149.01	.00014	.0157	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00477**	**.00239**	**4.3501**	**11.179**	**.00217**
Stddev	.00034	.00075	.0003	.054	.00020
%RSD	7.0654	31.302	.00722	.48021	9.0527
#1	.00500	.00292	4.3499	11.141	.00230
#2	.00453	.00186	4.3503	11.217	.00203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-2-A Acquired: 8/28/2017 16:27:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.241**	**.42169**	**.00151**	**111.97**	**.00472**
Stddev	.057	.00017	.00013	.32	.00006
%RSD	.21880	.03974	8.6963	.28211	1.3003
#1	26.200	.42157	.00161	111.75	.00468
#2	26.281	.42181	.00142	112.20	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01226**	**16.851**	**-.00053**	**.00079**	**12.621**
Stddev	.00073	.019	.00034	.00283	.008
%RSD	5.9200	.11564	65.086	359.95	.06339
#1	.01277	16.865	-.00077	-.00122	12.627
#2	.01174	16.838	-.00028	.00279	12.615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.65615**	**.06937**	**-.00060**	**.00223**
Stddev	.00023	.00059	.00008	.00159	.00004
%RSD	987.96	.09054	.11369	264.97	1.8457
#1	-.00014	.65573	.06932	-.00173	.00220
#2	.00018	.65657	.06943	.00053	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-2-A Acquired: 8/28/2017 16:27:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01425**
Stddev	.00035
%RSD	2.4868
#1	.01400
#2	.01450
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3469.6**	**2504.7**	**19814.**	**4171.2**
Stddev	7.0	3.8	25.	1.3
%RSD	.20154	.15273	.12375	.03037
#1	3464.7	2502.0	19797.	4172.1
#2	3474.6	2507.4	19832.	4170.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.268%	93.555%	93.503%	99.631%
Range				

Sample Name: 480-123274-B-3-A Acquired: 8/28/2017 16:31:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**1.3633**	**.00260**	**.32333**	**.26225**
Stddev	.00027	.0280	.00131	.00134	.00031
%RSD	67.950	2.0538	50.460	.41314	.12001
#1	.00021	1.3831	.00353	.32239	.26202
#2	.00059	1.3435	.00167	.32428	.26247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**165.35**	**.00005**	**.0180**	**.00061**
Stddev	.00012	.50	.00016	.0009	.00003
%RSD	99.193	.30392	354.21	5.225	4.5575
#1	-.00020	165.70	-.00007	.0173	.00059
#2	-.00003	164.99	.00016	.0187	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00532**	**.00071**	**11.881**	**11.777**	**.00090**
Stddev	.00002	.00016	.058	.076	.00017
%RSD	.34839	23.086	.48548	.64178	19.320
#1	.00533	.00082	11.922	11.724	.00078
#2	.00531	.00059	11.840	11.831	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-3-A Acquired: 8/28/2017 16:31:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.368**	**.82827**	**.00045**	**87.620**	**.00399**
Stddev	.018	.00087	.00025	.027	.00006
%RSD	.08964	.10509	54.738	.03059	1.4282
#1	20.380	.82888	.00027	87.601	.00395
#2	20.355	.82765	.00062	87.639	.00403
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00565**	**3.9356**	**-.00208**	**-.00140**	**13.126**
Stddev	.00118	.0041	.00041	.00100	.080
%RSD	20.946	.10358	19.812	71.380	.60647
#1	.00649	3.9385	-.00237	-.00069	13.182
#2	.00481	3.9328	-.00179	-.00210	13.070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.92667**	**.04021**	**-.00040**	**.00323**
Stddev	.00031	.00350	.00263	.00131	.00070
%RSD	80.357	.37819	6.5309	327.77	21.740
#1	.00060	.92915	.04206	-.00133	.00373
#2	.00017	.92419	.03835	.00053	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-3-A Acquired: 8/28/2017 16:31:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00997
Stddev	.00007
%RSD	.73829
#1	.01003
#2	.00992
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3480.3	2513.2	19879.	4162.7
Stddev	4.0	3.5	65.	8.1
%RSD	.11545	.14022	.32948	.19390
#1	3483.1	2515.7	19925.	4168.4
#2	3477.4	2510.7	19833.	4157.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.526%	93.873%	93.807%	99.428%
Range				

Sample Name: 480-123274-B-4-A Acquired: 8/28/2017 16:34:33 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.13894**	**.00223**	**.12223**	**.25973**
Stddev	.00046	.00536	.00157	.00000	.00035
%RSD	113.70	3.8606	70.252	.00350	.13580
#1	-.00074	.13515	.00334	.12223	.25998
#2	-.00008	.14273	.00112	.12222	.25948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**337.09**	**.00007**	**-.0007**	**-.00022**
Stddev	.00005	1.04	.00010	.0194	.00013
%RSD	26.145	.30914	150.15	2906.	57.910
#1	-.00024	337.83	.00014	-.0144	-.00013
#2	-.00016	336.36	-.00000	.0131	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**-.00276**	**20.508**	**13.919**	**-.00099**
Stddev	.00006	.00142	.083	.067	.00047
%RSD	2.9164	51.282	.40261	.47954	47.972
#1	.00219	-.00176	20.450	13.872	-.00132
#2	.00210	-.00376	20.567	13.967	-.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-4-A Acquired: 8/28/2017 16:34:33 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.617**	**1.4960**	**.00044**	**205.25**	**.00103**
Stddev	.081	.0026	.00001	.94	.00031
%RSD	.20480	.17595	1.9309	.45645	30.548
#1	39.675	1.4979	.00044	204.59	.00081
#2	39.560	1.4941	.00043	205.91	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00417**	**87.151**	**-.00205**	**-.00237**	**11.477**
Stddev	.00209	.047	.00145	.00096	.019
%RSD	50.003	.05372	70.603	40.772	.16850
#1	.00270	87.117	-.00103	-.00168	11.463
#2	.00565	87.184	-.00308	-.00305	11.491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**1.6917**	**.00576**	**-.00173**	**.00132**
Stddev	.00014	.0036	.00005	.00016	.00069
%RSD	353.24	.21428	.80968	9.5460	52.064
#1	.00014	1.6891	.00579	-.00161	.00180
#2	-.00006	1.6943	.00572	-.00184	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123274-B-4-A Acquired: 8/28/2017 16:34:33 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00413**
Stddev	.00018
%RSD	4.4811
#1	.00400
#2	.00426
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3256.1**	**2405.0**	**18975.**	**4107.5**
Stddev	3.8	.5	27.	.3
%RSD	.11756	.01936	.14101	.00747
#1	3253.4	2404.7	18993.	4107.3
#2	3258.8	2405.3	18956.	4107.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.081%	89.833%	89.540%	98.109%
Range				

Sample Name: 480-123285-D-1-A Acquired: 8/28/2017 16:38:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.28727**	**.12156**	**11.214**	**.56602**
Stddev	.00029	.00486	.00432	.008	.00103
%RSD	138.81	1.6909	3.5528	.07020	.18200
#1	-.00000	.28383	.12461	11.208	.56675
#2	-.00041	.29070	.11850	11.220	.56529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**122.08**	**.00021**	**-.0281**	**.02760**
Stddev	.00013	.23	.00005	.0052	.00011
%RSD	212.50	.18648	24.093	18.60	.39762
#1	.00003	122.24	.00025	-.0244	.02767
#2	-.00015	121.92	.00017	-.0318	.02752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.13148**	**.02761**	**19.399**	**455.99**	**.06442**
Stddev	.00050	.00086	.068	.75	.00104
%RSD	.38408	3.1024	.34812	.16515	1.6150
#1	.13112	.02701	19.447	456.52	.06515
#2	.13183	.02822	19.352	455.45	.06368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-1-A Acquired: 8/28/2017 16:38:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.846**	**.62517**	**.00546**	**1289.8**	**.19249**
Stddev	.034	.00194	.00007	.1	.00106
%RSD	.04266	.31026	1.2091	.00728	.55116
#1	79.822	.62380	.00541	1289.9	.19324
#2	79.870	.62654	.00550	1289.7	.19174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00702**	**19.872**	**.00761**	**.00269**	**13.132**
Stddev	.00035	.003	.00025	.00073	.002
%RSD	4.9747	.01361	3.3364	27.068	.01655
#1	.00727	19.870	.00779	.00321	13.131
#2	.00678	19.874	.00743	.00218	13.134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02854**	**1.0341**	**.14292**	**-.00303**	**.08097**
Stddev	.00047	.0000	.00038	.00133	.00050
%RSD	1.6517	.00236	.26476	43.962	.61854
#1	.02887	1.0341	.14265	-.00208	.08061
#2	.02820	1.0341	.14318	-.00397	.08132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-1-A Acquired: 8/28/2017 16:38:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.09908
Stddev	.00070
%RSD	.70471
#1	.09859
#2	.09957
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2915.4	2317.6	17753.	4152.2
Stddev	1.4	.4	41.	7.1
%RSD	.04656	.01692	.23257	.17158
#1	2914.5	2317.3	17783.	4147.2
#2	2916.4	2317.9	17724.	4157.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.807%	86.568%	83.778%	99.178%
Range				

Sample Name: 480-123285-D-2-A Acquired: 8/28/2017 16:41:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.17782**	**.08171**	**11.558**	**.35043**
Stddev	.00071	.00701	.00086	.009	.00086
%RSD	108.73	3.9441	1.0580	.07515	.24443
#1	-.00015	.18278	.08232	11.552	.35103
#2	-.00116	.17286	.08110	11.564	.34982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**116.92**	**.00024**	**.0042**	**.02777**
Stddev	.00012	.07	.00016	.0201	.00002
%RSD	132.97	.06086	68.126	475.6	.05618
#1	-.00001	116.87	.00012	-.0100	.02778
#2	-.00017	116.97	.00035	.0184	.02775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.11294**	**.00605**	**9.4203**	**459.63**	**.06599**
Stddev	.00062	.00100	.0017	.38	.00150
%RSD	.55259	16.481	.01778	.08215	2.2763
#1	.11338	.00534	9.4215	459.90	.06493
#2	.11250	.00675	9.4191	459.37	.06705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-2-A Acquired: 8/28/2017 16:41:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**80.307**	**.32653**	**.00522**	**1309.9**	**.19227**
Stddev	.358	.00065	.00016	.2	.00017
%RSD	.44532	.19902	3.1212	.01506	.08855
#1	80.560	.32699	.00510	1309.8	.19239
#2	80.054	.32607	.00533	1310.0	.19215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00334**	**18.618**	**.00764**	**.00590**	**13.306**
Stddev	.00165	.030	.00218	.00125	.014
%RSD	49.368	.15987	28.563	21.141	.10565
#1	.00451	18.597	.00610	.00502	13.316
#2	.00217	18.640	.00918	.00678	13.296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01957**	**.98226**	**.08859**	**-.00235**	**.06838**
Stddev	.00002	.00407	.00168	.00162	.00052
%RSD	.12766	.41482	1.9020	69.168	.76672
#1	.01955	.97937	.08978	-.00350	.06875
#2	.01959	.98514	.08740	-.00120	.06801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-2-A Acquired: 8/28/2017 16:41:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.06028**
Stddev	.00014
%RSD	.23111
#1	.06018
#2	.06038
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2910.8**	**2307.1**	**17714.**	**4155.6**
Stddev	1.0	.4	99.	4.0
%RSD	.03471	.01753	.56130	.09682
#1	2910.1	2307.4	17643.	4152.7
#2	2911.5	2306.8	17784.	4158.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.695%	86.176%	83.590%	99.257%
Range				

Sample Name: 480-123285-D-3-A Acquired: 8/28/2017 16:45:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.22870**	**.12318**	**11.872**	**.65043**
Stddev	.00054	.02080	.00090	.002	.00222
%RSD	100.05	9.0943	.73215	.01964	.34057
#1	.00016	.21400	.12382	11.874	.64886
#2	.00092	.24341	.12254	11.870	.65200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**131.35**	**.00017**	**-.0119**	**.02872**
Stddev	.00001	.07	.00010	.0084	.00019
%RSD	13.756	.05667	54.910	70.75	.65893
#1	-.00004	131.40	.00011	-.0060	.02885
#2	-.00005	131.30	.00024	-.0179	.02859
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15287**	**.02359**	**24.332**	**476.02**	**.06733**
Stddev	.00011	.00087	.034	.05	.00033
%RSD	.07232	3.7071	.14079	.00976	.49280
#1	.15280	.02420	24.356	476.06	.06710
#2	.15295	.02297	24.308	475.99	.06757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-3-A Acquired: 8/28/2017 16:45:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.929**	**.36332**	**.00567**	**1356.0**	**.19984**
Stddev	.275	.00130	.00003	.6	.00023
%RSD	.32416	.35812	.50146	.04216	.11728
#1	85.123	.36424	.00569	1356.4	.19967
#2	84.734	.36240	.00565	1355.6	.20000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00749**	**20.791**	**.00870**	**.00368**	**14.369**
Stddev	.00079	.010	.00024	.00279	.026
%RSD	10.564	.05026	2.7688	75.818	.18441
#1	.00693	20.798	.00853	.00565	14.350
#2	.00805	20.783	.00887	.00171	14.387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03472**	**1.1650**	**.17923**	**-.00347**	**.08988**
Stddev	.00089	.0015	.00132	.00148	.00052
%RSD	2.5720	.12706	.73906	42.690	.57832
#1	.03409	1.1640	.18016	-.00242	.08951
#2	.03535	1.1661	.17829	-.00452	.09025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-D-3-A Acquired: 8/28/2017 16:45:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.12308
Stddev	.00038
%RSD	.31067
#1	.12335
#2	.12281
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2892.5	2305.8	17778.	4154.9
Stddev	2.6	1.3	21.	6.5
%RSD	.08924	.05445	.11715	.15724
#1	2894.4	2306.7	17763.	4150.3
#2	2890.7	2304.9	17793.	4159.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.252%	86.126%	83.894%	99.242%
Range				

Sample Name: BLANK Acquired: 8/28/2017 16:49:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	**-.00835**	**.00041**	**.02227**	**-.00011**
Stddev	.00073	.01509	.00278	.00173	.00001
%RSD	76.697	180.68	677.01	7.7742	8.1398
#1	-.00148	-.01902	.00238	.02349	-.00010
#2	-.00044	.00232	-.00156	.02104	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00241**	**-.00007**	**.0003**	**-.00007**
Stddev	.00004	.00138	.00001	.0387	.00024
%RSD	38.567	57.046	19.536	15120.	361.35
#1	-.00013	-.00144	-.00006	-.0271	-.00024
#2	-.00008	-.00339	-.00008	.0276	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00001**	**-.00756**	**.37369**	**.00057**
Stddev	.00039	.00034	.00111	.00420	.00076
%RSD	258.84	5861.9	14.739	1.1251	133.69
#1	.00042	-.00024	-.00834	.37666	.00003
#2	-.00012	.00025	-.00677	.37071	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 16:49:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00574**	**-.00004**	**-.00026**	**.21870**	**-.00018**
Stddev	.00749	.00002	.00021	.00494	.00015
%RSD	130.60	55.518	80.751	2.2573	81.654
#1	-.00044	-.00003	-.00011	.22219	-.00029
#2	-.01104	-.00006	-.00042	.21521	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00152**	**-.00064**	**-.00037**	**.09123**
Stddev	.00011	.00243	.00011	.00330	.01682
%RSD	122.92	160.35	17.284	894.10	18.439
#1	-.00001	-.00323	-.00056	.00197	.10313
#2	-.00017	.00020	-.00072	-.00271	.07934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00002**	**.00018**	**-.00061**	**-.00018**
Stddev	.00024	.00001	.00072	.00058	.00017
%RSD	124.51	69.436	407.82	94.355	95.564
#1	-.00036	-.00001	.00068	-.00020	-.00006
#2	-.00002	-.00002	-.00033	-.00102	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 16:49:15 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00057
Stddev	.00034
%RSD	58.500
#1	.00081
#2	.00034
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4119.4	2668.1	21221.	4152.6
Stddev	3.2	1.2	32.	48.2
%RSD	.07716	.04511	.15011	1.1611
#1	4121.7	2667.3	21243.	4118.5
#2	4117.2	2669.0	21198.	4186.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.05%	99.661%	100.14%	99.187%
Range				

Sample Name: MB 480-373973/1-B Acquired: 8/28/2017 16:52:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00897**	**.00203**	**.01521**	**-.00009**
Stddev	.00031	.01150	.00140	.00025	.00003
%RSD	921.28	128.23	69.002	1.6192	36.576
#1	.00018	.00084	.00104	.01538	-.00011
#2	-.00025	.01710	.00302	.01504	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.02501**	**-.00002**	**.0129**	**.00001**
Stddev	.00011	.00319	.00003	.0288	.00009
%RSD	100.85	12.751	162.65	223.1	1169.5
#1	-.00003	.02727	-.00004	-.0075	-.00006
#2	-.00018	.02276	.00000	.0332	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00060**	**-.00538**	**.24743**	**.00056**
Stddev	.00033	.00032	.00168	.04652	.00042
%RSD	84.000	53.340	31.130	18.803	75.517
#1	-.00016	.00083	-.00420	.28033	.00085
#2	-.00062	.00038	-.00657	.21453	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373973/1-B Acquired: 8/28/2017 16:52:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00296**	**.00016**	**-.00030**	**.13988**	**.00044**
Stddev	.00113	.00000	.00011	.00270	.00042
%RSD	38.227	1.2217	37.571	1.9326	96.279
#1	-.00216	.00016	-.00022	.14179	.00014
#2	-.00376	.00016	-.00038	.13797	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.00339**	**-.00024**	**.00095**	**.01813**
Stddev	.00037	.00171	.00141	.00019	.00274
%RSD	40.547	50.489	575.63	19.708	15.099
#1	-.00064	.00218	-.00124	.00108	.01620
#2	-.00116	.00460	.00075	.00082	.02007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00012**	**-.00016**	**-.00087**	**-.00013**
Stddev	.00021	.00003	.00053	.00066	.00018
%RSD	80.142	27.239	336.95	75.425	138.35
#1	-.00011	.00010	-.00053	-.00041	-.00000
#2	-.00041	.00014	.00022	-.00133	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373973/1-B Acquired: 8/28/2017 16:52:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00597
Stddev	.00070
%RSD	11.653
#1	.00548
#2	.00646
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4141.9	2670.8	21435.	4230.7
Stddev	7.3	3.2	90.	3.1
%RSD	.17669	.12110	.41804	.07308
#1	4147.0	2673.0	21372.	4232.9
#2	4136.7	2668.5	21499.	4228.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.59%	99.759%	101.15%	101.05%
Range				

Sample Name: LCS 480-373973/2-B Acquired: 8/28/2017 16:56:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04679**	**9.9504**	**.19797**	**.21616**	**.20445**
Stddev	.00008	.0785	.00087	.00046	.00033
%RSD	.17545	.78940	.44180	.21359	.16277
#1	.04684	9.8948	.19859	.21648	.20422
#2	.04673	10.006	.19735	.21583	.20469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19966**	**9.8472**	**.20196**	**-.0189**	**.18854**
Stddev	.00107	.0569	.00048	.0042	.00000
%RSD	.53708	.57819	.23970	22.11	.00077
#1	.19891	9.8069	.20162	-.0159	.18854
#2	.20042	9.8874	.20230	-.0218	.18854
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19926**	**.20012**	**9.9557**	**10.161**	**.20550**
Stddev	.00137	.00045	.0535	.003	.00051
%RSD	.68859	.22686	.53710	.02907	.24893
#1	.19829	.19980	9.9178	10.159	.20514
#2	.20023	.20044	9.9935	10.163	.20586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373973/2-B Acquired: 8/28/2017 16:56:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.152**	**.20576**	**.20189**	**10.129**	**.19347**
Stddev	.001	.00019	.00001	.058	.00031
%RSD	.01181	.09198	.00549	.57020	.16169
#1	10.151	.20563	.20188	10.088	.19369
#2	10.153	.20589	.20190	10.170	.19325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20158**	**9.9790**	**.20076**	**.19952**	**10.004**
Stddev	.00101	.0245	.00092	.00119	.071
%RSD	.50159	.24545	.45712	.59513	.70745
#1	.20087	9.9617	.20141	.20036	9.9536
#2	.20230	9.9964	.20011	.19868	10.054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18183**	**.20248**	**.19646**	**.20238**	**.20398**
Stddev	.00011	.00117	.00007	.00037	.00071
%RSD	.05844	.57583	.03765	.18118	.34762
#1	.18175	.20165	.19640	.20212	.20448
#2	.18191	.20330	.19651	.20264	.20348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373973/2-B Acquired: 8/28/2017 16:56:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20616
Stddev	.00040
%RSD	.19263
#1	.20644
#2	.20588
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3888.6	2656.2	21035.	4246.1
Stddev	7.8	5.2	36.	42.7
%RSD	.20061	.19473	.16894	1.0063
#1	3883.1	2652.5	21010.	4276.4
#2	3894.1	2659.8	21060.	4215.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.443%	99.214%	99.264%	101.42%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:59:58 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50993**	**24.021**	**.50062**	**.51312**	**.48736**
Stddev	.00124	.096	.00125	.00047	.00186
%RSD	.24328	.39785	.24901	.09253	.38069
#1	.50905	23.953	.50150	.51278	.48605
#2	.51080	24.089	.49974	.51345	.48867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50021**	**24.627**	**.50037**	**-.0142**	**.49018**
Stddev	.00093	.002	.00016	.0373	.00098
%RSD	.18597	.00960	.03182	262.1	.20013
#1	.50087	24.625	.50048	-.0406	.48948
#2	.49956	24.629	.50026	.0121	.49087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51440**	**.49641**	**23.803**	**25.323**	**.50817**
Stddev	.00064	.00154	.007	.122	.00041
%RSD	.12463	.31088	.02954	.48286	.08129
#1	.51394	.49532	23.798	25.410	.50788
#2	.51485	.49750	23.808	25.237	.50846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:59:58 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.874**	**.50783**	**.50130**	**25.206**	**.49811**
Stddev	.137	.00198	.00067	.012	.00038
%RSD	.55206	.39027	.13449	.04700	.07712
#1	24.777	.50643	.50178	25.214	.49838
#2	24.971	.50923	.50082	25.197	.49783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49510**	**25.372**	**.49996**	**.50408**	**24.005**
Stddev	.00116	.020	.00335	.00521	.066
%RSD	.23463	.07818	.67071	1.0343	.27483
#1	.49592	25.386	.49759	.50040	23.958
#2	.49428	25.358	.50233	.50777	24.051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51159**	**.50294**	**.50280**	**.50650**	**.50807**
Stddev	.00005	.00064	.00061	.00107	.00067
%RSD	.01074	.12656	.12116	.21087	.13155
#1	.51155	.50249	.50237	.50725	.50760
#2	.51163	.50339	.50323	.50574	.50854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 16:59:58 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50949**
Stddev	.00218
%RSD	.42708
#1	.50795
#2	.51102
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3688.8**	**2613.5**	**20451.**	**4122.4**
Stddev	.6	4.2	84.	7.6
%RSD	.01741	.15896	.40848	.18348
#1	3688.3	2610.5	20510.	4117.1
#2	3689.2	2616.4	20392.	4127.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:03:26 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.01019**	**.00025**	**.00584**	**-.00011**
Stddev	.00072	.01587	.00124	.00038	.00000
%RSD	95.071	155.69	494.64	6.5187	2.0954
#1	.00025	-.00103	-.00062	.00557	-.00011
#2	.00127	.02141	.00112	.00611	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00054**	**-.00026**	**.0233**	**-.00001**
Stddev	.00001	.00141	.00011	.0150	.00006
%RSD	7.9665	261.07	41.646	64.28	525.56
#1	-.00015	.00153	-.00018	.0339	-.00005
#2	-.00017	-.00046	-.00033	.0127	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00046**	**-.00537**	**.11479**	**.00062**
Stddev	.00019	.00032	.00106	.01204	.00055
%RSD	945.07	70.920	19.744	10.486	89.468
#1	.00016	.00068	-.00612	.12330	.00101
#2	-.00012	.00023	-.00462	.10627	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:03:26 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00379**	**-.00004**	**-.00020**	**.07386**	**.00027**
Stddev	.00284	.00004	.00006	.00543	.00017
%RSD	74.882	91.593	30.063	7.3520	62.671
#1	-.00580	-.00001	-.00016	.07002	.00039
#2	-.00178	-.00007	-.00024	.07770	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**-.00416**	**-.00021**	**.00205**	**.00329**
Stddev	.00089	.00274	.00169	.00110	.00202
%RSD	73.595	65.992	793.53	53.632	61.157
#1	-.00183	-.00610	.00098	.00127	.00187
#2	-.00058	-.00222	-.00141	.00282	.00472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.00006**	**-.00009**	**.00027**	**.00025**
Stddev	.00013	.00005	.00007	.00007	.00023
%RSD	41.818	75.794	72.616	26.067	93.082
#1	-.00040	-.00010	-.00004	.00022	.00008
#2	-.00022	-.00003	-.00014	.00032	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:03:26 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00002**
Stddev	.00037
%RSD	2055.4
#1	-.00028
#2	.00024
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4117.4**	**2666.0**	**21265.**	**4172.2**
Stddev	5.9	4.1	41.	66.3
%RSD	.14325	.15519	.19129	1.5890
#1	4121.6	2668.9	21236.	4125.3
#2	4113.2	2663.1	21294.	4219.1

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:07:06 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00570**	**.18124**	**.01348**	**.02499**	**.00198**
Stddev	.00076	.00887	.00118	.00027	.00002
%RSD	13.363	4.8933	8.7765	1.0787	1.0646
#1	.00516	.18752	.01431	.02518	.00199
#2	.00623	.17497	.01264	.02480	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**.49137**	**.00202**	**.0301**	**.00375**
Stddev	.00002	.00260	.00019	.0018	.00013
%RSD	1.1463	.52831	9.4496	5.813	3.5568
#1	.00197	.48953	.00189	.0289	.00366
#2	.00194	.49320	.00216	.0314	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**.00959**	**.04150**	**.64163**	**.03166**
Stddev	.00126	.00015	.00203	.02280	.00048
%RSD	30.013	1.5519	4.8794	3.5538	1.5120
#1	.00508	.00969	.04294	.62550	.03132
#2	.00330	.00948	.04007	.65775	.03200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:07:06 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19932**	**.00296**	**.00969**	**1.0749**	**.00955**
Stddev	.00108	.00007	.00019	.0067	.00016
%RSD	.53977	2.4524	1.9962	.62249	1.6301
#1	.20009	.00291	.00983	1.0797	.00967
#2	.19856	.00301	.00956	1.0702	.00944
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00907**	**.19334**	**.01951**	**.02791**	**.49107**
Stddev	.00051	.00261	.00049	.00137	.00436
%RSD	5.6472	1.3494	2.5353	4.9151	.88832
#1	.00870	.19519	.01986	.02694	.48799
#2	.00943	.19150	.01916	.02888	.49416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00949**	**.00499**	**.00491**	**.01904**	**.00556**
Stddev	.00008	.00011	.00019	.00112	.00044
%RSD	.84445	2.1707	3.8564	5.8564	7.9823
#1	.00955	.00492	.00504	.01983	.00524
#2	.00943	.00507	.00478	.01825	.00587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:07:06 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01124
Stddev	.00000
%RSD	.02425
#1	.01125
#2	.01124
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4097.4	2668.1	21280.	4184.1
Stddev	1.3	1.1	10.	13.5
%RSD	.03285	.04161	.04677	.32375
#1	4098.4	2667.3	21287.	4193.7
#2	4096.5	2668.9	21273.	4174.5

Sample Name: 480-123149-A-9-B Acquired: 8/28/2017 17:10:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.07964**	**.01700**	**.01011**	**.00465**
Stddev	.00027	.01229	.00029	.00001	.00006
%RSD	48.143	15.436	1.6933	.06132	1.2841
#1	-.00075	.07095	.01720	.01011	.00469
#2	-.00037	.08834	.01679	.01012	.00461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**14.922**	**-.00003**	**.0053**	**.00029**
Stddev	.00003	.034	.00007	.0046	.00006
%RSD	11.078	.22997	238.50	87.35	20.130
#1	-.00026	14.898	.00002	.0085	.00025
#2	-.00022	14.946	-.00008	.0020	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00505**	**.00116**	**.03285**	**1.5730**	**-.00095**
Stddev	.00056	.00050	.00118	.0157	.00018
%RSD	10.999	43.171	3.6024	.99649	18.957
#1	.00466	.00152	.03369	1.5619	-.00082
#2	.00545	.00081	.03201	1.5841	-.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-B Acquired: 8/28/2017 17:10:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1477**	**.14248**	**.02276**	**13.231**	**.00763**
Stddev	.0091	.00101	.00002	.046	.00002
%RSD	.28975	.70660	.08368	.34569	.23724
#1	3.1542	.14319	.02274	13.199	.00764
#2	3.1413	.14177	.02277	13.264	.00762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**4.3911**	**.00166**	**.00268**	**6.0756**
Stddev	.00077	.0079	.00018	.00196	.0374
%RSD	80.913	.17913	10.880	73.236	.61563
#1	.00151	4.3966	.00153	.00129	6.0491
#2	.00041	4.3855	.00179	.00407	6.1020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**.05287**	**.00017**	**-.00035**	**.00238**
Stddev	.00058	.00015	.00017	.00007	.00024
%RSD	111.27	.27898	98.097	21.048	9.9060
#1	-.00094	.05276	.00029	-.00030	.00221
#2	-.00011	.05297	.00005	-.00040	.00254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-B Acquired: 8/28/2017 17:10:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01468
Stddev	.00024
%RSD	1.6453
#1	.01485
#2	.01451
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3966.2	2646.2	21041.	4187.7
Stddev	4.7	2.4	74.	5.8
%RSD	.11751	.09119	.35317	.13890
#1	3962.9	2644.5	20988.	4183.6
#2	3969.5	2647.9	21093.	4191.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.327%	98.843%	99.289%	100.02%
Range				

Sample Name: 480-123149-A-9-BSD@5 Acquired: 8/28/2017 17:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.02582**	**.00489**	**.00484**	**.00088**
Stddev	.00052	.00161	.00192	.00005	.00001
%RSD	94.595	6.2198	39.199	1.0427	.81021
#1	-.00092	.02696	.00354	.00488	.00087
#2	-.00018	.02469	.00625	.00481	.00088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**2.9852**	**-.00011**	**.0108**	**.00001**
Stddev	.00008	.0048	.00008	.0130	.00001
%RSD	67.218	.16212	73.104	119.6	111.09
#1	-.00006	2.9886	-.00005	.0017	.00000
#2	-.00017	2.9818	-.00016	.0200	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**.00022**	**.00031**	**.36887**	**-.00133**
Stddev	.00036	.00077	.00222	.00328	.00069
%RSD	43.529	352.48	707.15	.88940	51.753
#1	.00108	-.00033	.00188	.37119	-.00085
#2	.00057	.00076	-.00126	.36655	-.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-BSD@5 Acquired: 8/28/2017 17:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.61711**	**.02862**	**.00425**	**2.6998**	**.00135**
Stddev	.00096	.00020	.00036	.0253	.00006
%RSD	.15546	.68661	8.5299	.93816	4.6665
#1	.61779	.02848	.00399	2.7177	.00131
#2	.61644	.02876	.00450	2.6819	.00139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00092**	**.85208**	**.00025**	**.00131**	**1.2122**
Stddev	.00040	.00139	.00142	.00114	.0036
%RSD	43.796	.16256	575.48	86.601	.29924
#1	-.00120	.85306	-.00076	.00212	1.2096
#2	-.00063	.85110	.00125	.00051	1.2148
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.01054**	**-.00039**	**-.00083**	**.00098**
Stddev	.00041	.00013	.00028	.00129	.00059
%RSD	1352.3	1.2619	73.567	156.26	60.308
#1	.00026	.01064	-.00059	.00009	.00139
#2	-.00032	.01045	-.00019	-.00174	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-BSD@5 Acquired: 8/28/2017 17:14:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00358**
Stddev	.00045
%RSD	12.426
#1	.00327
#2	.00390
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4058.7**	**2647.3**	**21036.**	**4165.4**
Stddev	4.8	3.5	23.	15.3
%RSD	.11776	.13126	.11130	.36841
#1	4055.3	2644.9	21053.	4154.5
#2	4062.1	2649.8	21020.	4176.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.573%	98.884%	99.269%	99.491%
Range				

Sample Name: 480-123149-A-9-BPDS Acquired: 8/28/2017 17:17:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05122**	**10.364**	**.21913**	**.22057**	**.21185**
Stddev	.00019	.012	.00004	.00022	.00083
%RSD	.37133	.11691	.01862	.09830	.39330
#1	.05109	10.355	.21910	.22073	.21126
#2	.05136	10.373	.21916	.22042	.21244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20486**	**24.369**	**.20776**	**-.0094**	**.19313**
Stddev	.00047	.092	.00005	.0229	.00015
%RSD	.22911	.37763	.02339	244.8	.07705
#1	.20519	24.434	.20772	.0068	.19323
#2	.20453	24.304	.20779	-.0256	.19302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21320**	**.20428**	**10.173**	**11.809**	**.21124**
Stddev	.00046	.00095	.019	.032	.00100
%RSD	.21559	.46363	.18424	.27050	.47517
#1	.21287	.20361	10.186	11.786	.21195
#2	.21352	.20495	10.160	11.832	.21053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-BPDS Acquired: 8/28/2017 17:17:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.365**	**.34219**	**.22401**	**23.073**	**.20252**
Stddev	.039	.00097	.00046	.034	.00014
%RSD	.29467	.28281	.20546	.14597	.07002
#1	13.337	.34151	.22369	23.097	.20262
#2	13.393	.34287	.22434	23.049	.20242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20633**	**14.521**	**.21064**	**.20939**	**16.063**
Stddev	.00006	.013	.00123	.00628	.065
%RSD	.03130	.08904	.58482	2.9975	.40767
#1	.20628	14.512	.21151	.21383	16.109
#2	.20637	14.530	.20977	.20495	16.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20463**	**.25929**	**.20289**	**.20789**	**.21059**
Stddev	.00041	.00013	.00002	.00048	.00011
%RSD	.20141	.04835	.01228	.22923	.05160
#1	.20433	.25921	.20287	.20822	.21067
#2	.20492	.25938	.20291	.20755	.21051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-BPDS Acquired: 8/28/2017 17:17:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21906
Stddev	.00071
%RSD	.32638
#1	.21957
#2	.21855
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3801.3	2629.7	20729.	4212.6
Stddev	1.7	1.3	36.	9.6
%RSD	.04585	.04864	.17295	.22702
#1	3802.5	2630.6	20755.	4205.8
#2	3800.1	2628.8	20704.	4219.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.322%	98.225%	97.821%	100.62%
Range				

Sample Name: 480-123149-A-9-C MS Acquired: 8/28/2017 17:21:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04838**	**10.192**	**.22146**	**.21758**	**.20994**
Stddev	.00187	.073	.00034	.00025	.00015
%RSD	3.8584	.71436	.15446	.11592	.06988
#1	.04970	10.243	.22170	.21776	.21004
#2	.04706	10.140	.22121	.21741	.20984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20516**	**25.210**	**.20841**	**-.0015**	**.19668**
Stddev	.00037	.074	.00007	.0030	.00008
%RSD	.18053	.29545	.03337	194.8	.04075
#1	.20542	25.263	.20836	.0006	.19663
#2	.20490	25.158	.20846	-.0037	.19674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21139**	**.20670**	**10.250**	**11.646**	**.20683**
Stddev	.00133	.00046	.033	.033	.00076
%RSD	.62864	.22414	.31787	.28059	.36856
#1	.21045	.20637	10.273	11.623	.20630
#2	.21233	.20702	10.227	11.669	.20737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-C MS Acquired: 8/28/2017 17:21:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.562**	**.35222**	**.23147**	**23.635**	**.20916**
Stddev	.031	.00001	.00075	.084	.00006
%RSD	.23021	.00164	.32549	.35654	.02998
#1	13.584	.35221	.23200	23.694	.20911
#2	13.540	.35222	.23094	23.575	.20920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20818**	**14.791**	**.20359**	**.20768**	**16.308**
Stddev	.00190	.010	.00132	.00314	.024
%RSD	.91402	.06940	.64893	1.5115	.14562
#1	.20684	14.784	.20266	.20546	16.325
#2	.20953	14.799	.20453	.20990	16.292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18778**	**.25846**	**.20475**	**.20866**	**.21443**
Stddev	.00017	.00075	.00108	.00264	.00025
%RSD	.09172	.29044	.52721	1.2638	.11502
#1	.18766	.25899	.20398	.21052	.21460
#2	.18790	.25793	.20551	.20679	.21425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-C MS Acquired: 8/28/2017 17:21:22 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21440**
Stddev	.00111
%RSD	.51758
#1	.21361
#2	.21518
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3791.1	2639.1	20856.	4229.1
Stddev	4.0	5.4	41.	19.0
%RSD	.10516	.20488	.19854	.44891
#1	3788.3	2635.2	20885.	4215.7
#2	3794.0	2642.9	20827.	4242.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.076%	98.575%	98.419%	101.01%
Range				

Sample Name: 480-123149-A-9-D MSD Acquired: 8/28/2017 17:24:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04743**	**10.124**	**.21926**	**.21569**	**.20984**
Stddev	.00075	.026	.00037	.00047	.00008
%RSD	1.5731	.25701	.16774	.21654	.03623
#1	.04795	10.106	.21952	.21536	.20990
#2	.04690	10.143	.21900	.21602	.20979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20451**	**24.902**	**.20577**	**-.0192**	**.19356**
Stddev	.00064	.038	.00008	.0351	.00013
%RSD	.31337	.15405	.03842	182.5	.06542
#1	.20496	24.929	.20571	-.0441	.19365
#2	.20405	24.875	.20582	.0056	.19347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20799**	**.20707**	**10.181**	**11.675**	**.20624**
Stddev	.00023	.00004	.021	.024	.00078
%RSD	.10942	.01735	.20820	.20496	.37653
#1	.20783	.20709	10.166	11.658	.20679
#2	.20815	.20704	10.196	11.692	.20569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-D MSD Acquired: 8/28/2017 17:24:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.482**	**.35083**	**.22813**	**23.373**	**.20588**
Stddev	.026	.00031	.00011	.019	.00049
%RSD	.19018	.08775	.04915	.08171	.24017
#1	13.464	.35061	.22821	23.386	.20553
#2	13.500	.35104	.22805	23.359	.20623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20653**	**14.573**	**.20180**	**.20476**	**16.130**
Stddev	.00011	.022	.00098	.00017	.053
%RSD	.05184	.14854	.48584	.08180	.32789
#1	.20660	14.588	.20250	.20488	16.167
#2	.20645	14.558	.20111	.20464	16.093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18590**	**.25609**	**.20063**	**.20543**	**.20992**
Stddev	.00034	.00107	.00027	.00052	.00055
%RSD	.18338	.41814	.13485	.25108	.26042
#1	.18566	.25685	.20082	.20579	.21031
#2	.18615	.25534	.20044	.20506	.20954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123149-A-9-D MSD Acquired: 8/28/2017 17:24:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21341
Stddev	.00019
%RSD	.08938
#1	.21354
#2	.21327
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3792.3	2637.7	20771.	4196.0
Stddev	3.5	.4	63.	7.4
%RSD	.09341	.01446	.30195	.17578
#1	3794.8	2637.5	20816.	4201.3
#2	3789.8	2638.0	20727.	4190.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.104%	98.526%	98.018%	100.22%
Range				

Sample Name: 480-123209-A-3-B Acquired: 8/28/2017 17:28:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.01454**	**.01490**	**.02291**	**.02581**
Stddev	.00029	.00139	.00126	.00014	.00008
%RSD	119.98	9.5304	8.4570	.61874	.31775
#1	.00004	.01552	.01401	.02301	.02587
#2	.00044	.01356	.01579	.02281	.02575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**27.936**	**.00004**	**-.0048**	**.00008**
Stddev	.00001	.133	.00017	.0313	.00005
%RSD	7.4324	.47652	476.87	649.5	66.703
#1	-.00015	28.031	.00016	.0173	.00012
#2	-.00017	27.842	-.00009	-.0269	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.00105**	**.20268**	**3.9183**	**.00245**
Stddev	.00049	.00050	.00431	.0131	.00088
%RSD	275.62	47.766	2.1272	.33356	36.061
#1	-.00017	.00070	.20573	3.9090	.00308
#2	.00052	.00141	.19963	3.9275	.00183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123209-A-3-B Acquired: 8/28/2017 17:28:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9454**	**.51662**	**.00309**	**24.094**	**.00314**
Stddev	.0226	.00192	.00000	.139	.00046
%RSD	.45674	.37126	.15692	.57520	14.681
#1	4.9614	.51798	.00309	24.192	.00346
#2	4.9294	.51526	.00309	23.996	.00281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**11.243**	**.00041**	**.00302**	**8.5630**
Stddev	.00081	.040	.00091	.00063	.0238
%RSD	176.75	.35941	222.29	20.946	.27806
#1	.00103	11.272	-.00024	.00347	8.5799
#2	-.00011	11.215	.00106	.00257	8.5462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.19180**	**-.00006**	**-.00066**	**.00014**
Stddev	.00013	.00028	.00011	.00042	.00029
%RSD	65.666	.14584	175.85	63.634	209.85
#1	-.00030	.19200	-.00014	-.00036	-.00007
#2	-.00011	.19160	.00002	-.00096	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123209-A-3-B Acquired: 8/28/2017 17:28:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00750
Stddev	.00016
%RSD	2.1268
#1	.00761
#2	.00739
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3860.7	2614.4	20697.	4205.4
Stddev	10.7	8.8	82.	30.5
%RSD	.27629	.33845	.39850	.72621
#1	3853.2	2608.1	20639.	4183.8
#2	3868.3	2620.6	20755.	4227.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.766%	97.652%	97.668%	100.45%
Range				

Sample Name: 480-123215-L-1-B Acquired: 8/28/2017 17:31:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.01615**	**.00013**	**.21503**	**.04013**
Stddev	.00087	.01049	.00198	.00002	.00026
%RSD	232.74	64.971	1515.0	.00720	.64416
#1	.00099	.00873	.00153	.21502	.03994
#2	-.00024	.02356	-.00127	.21504	.04031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**156.56**	**.00023**	**.0093**	**.00066**
Stddev	.00000	.17	.00002	.0112	.00010
%RSD	2.6199	.10690	6.8245	119.9	15.619
#1	-.00018	156.68	.00024	.0173	.00073
#2	-.00018	156.44	.00022	.0014	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00065**	**.00583**	**.39738**	**-.00024**
Stddev	.00037	.00244	.00019	.07652	.00060
%RSD	244.25	374.97	3.1775	19.255	253.82
#1	-.00041	-.00107	.00570	.34328	.00019
#2	.00011	.00237	.00596	.45149	-.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-L-1-B Acquired: 8/28/2017 17:31:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.297**	**.03086**	**.00248**	**16.691**	**.00393**
Stddev	.197	.00015	.00020	.008	.00054
%RSD	.47645	.50088	7.9722	.04506	13.610
#1	41.158	.03075	.00234	16.697	.00431
#2	41.436	.03096	.00262	16.686	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**60.898**	**-.00045**	**.00077**	**5.6479**
Stddev	.00023	.023	.00117	.00065	.0034
%RSD	38.518	.03839	259.29	83.969	.05991
#1	.00044	60.914	-.00127	.00123	5.6503
#2	.00076	60.881	.00037	.00031	5.6455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.62555**	**.00027**	**.00044**	**.00019**
Stddev	.00054	.00014	.00015	.00018	.00011
%RSD	898.16	.02180	57.334	40.846	60.516
#1	-.00032	.62565	.00038	.00057	.00027
#2	.00044	.62545	.00016	.00032	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-L-1-B Acquired: 8/28/2017 17:31:48 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01099**
Stddev	.00019
%RSD	1.7689
#1	.01086
#2	.01113
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3585.9**	**2509.5**	**19991.**	**4134.9**
Stddev	6.3	6.4	95.	3.1
%RSD	.17598	.25415	.47717	.07577
#1	3590.4	2514.0	20058.	4132.6
#2	3581.4	2505.0	19923.	4137.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.091%	93.737%	94.336%	98.763%
Range				

Sample Name: 480-123215-K-2-B Acquired: 8/28/2017 17:35:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**.01843**	**.00006**	**.18389**	**.06617**
Stddev	.00048	.00269	.00220	.00015	.00022
%RSD	74.159	14.617	3794.3	.07992	.33997
#1	.00099	.01652	-.00150	.18399	.06633
#2	.00031	.02033	.00161	.18378	.06601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**139.35**	**.00025**	**.0176**	**-.00017**
Stddev	.00005	.22	.00003	.0151	.00014
%RSD	37.220	.15976	11.414	85.81	84.285
#1	-.00017	139.51	.00027	.0283	-.00007
#2	-.00010	139.19	.00023	.0069	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00223**	**-.00040**	**1.4567**	**.00340**
Stddev	.00021	.00019	.00121	.0240	.00060
%RSD	67.298	8.4481	299.83	1.6447	17.580
#1	-.00046	.00209	.00045	1.4397	.00383
#2	-.00016	.00236	-.00125	1.4736	.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-K-2-B Acquired: 8/28/2017 17:35:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.664**	**.01097**	**.00224**	**23.493**	**.00351**
Stddev	.032	.00002	.00016	.017	.00070
%RSD	.09254	.17755	6.9483	.07254	19.810
#1	34.687	.01098	.00235	23.505	.00302
#2	34.642	.01095	.00213	23.480	.00400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00106**	**30.587**	**-.00206**	**-.00209**	**7.4650**
Stddev	.00019	.055	.00003	.00629	.0325
%RSD	18.200	.17989	1.6443	301.11	.43562
#1	.00093	30.626	-.00208	.00236	7.4880
#2	.00120	30.548	-.00203	-.00654	7.4420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.66199**	**.00000**	**-.00064**	**.00036**
Stddev	.00017	.00074	.00018	.00074	.00025
%RSD	92.623	.11231	5282.8	116.73	67.546
#1	-.00031	.66252	-.00012	-.00011	.00019
#2	-.00006	.66147	.00013	-.00116	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-K-2-B Acquired: 8/28/2017 17:35:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01343**
Stddev	.00043
%RSD	3.1751
#1	.01373
#2	.01313
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3596.3**	**2526.8**	**20155.**	**4176.2**
Stddev	5.2	2.5	23.	19.4
%RSD	.14521	.10023	.11366	.46333
#1	3600.0	2528.6	20139.	4162.5
#2	3592.6	2525.0	20171.	4189.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.344%	94.383%	95.109%	99.750%
Range				

Sample Name: 480-123215-L-3-B Acquired: 8/28/2017 17:38:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.01412**	**.00241**	**.09649**	**.04413**
Stddev	.00041	.00140	.00304	.00046	.00009
%RSD	201.97	9.9299	126.20	.47606	.20573
#1	.00009	.01312	.00026	.09617	.04406
#2	-.00049	.01511	.00456	.09682	.04419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**180.19**	**.00033**	**.0231**	**.00004**
Stddev	.00008	1.38	.00007	.0007	.00013
%RSD	38.688	.76399	20.525	3.200	315.08
#1	-.00026	181.16	.00029	.0225	.00014
#2	-.00015	179.22	.00038	.0236	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.00235**	**-.00307**	**.54432**	**-.00296**
Stddev	.00032	.00032	.00015	.00848	.00088
%RSD	76.615	13.542	5.0341	1.5588	29.567
#1	-.00019	.00257	-.00318	.53832	-.00358
#2	-.00064	.00212	-.00296	.55032	-.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-L-3-B Acquired: 8/28/2017 17:38:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.362**	**.02171**	**.00090**	**13.757**	**.00247**
Stddev	.050	.00006	.00022	.120	.00044
%RSD	.10589	.27564	24.433	.87423	17.871
#1	47.398	.02167	.00074	13.842	.00216
#2	47.327	.02175	.00105	13.672	.00279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**66.684**	**.00041**	**.00063**	**6.0653**
Stddev	.00051	.063	.00108	.00386	.0593
%RSD	70.743	.09451	266.74	614.02	.97797
#1	-.00036	66.640	-.00036	-.00210	6.1072
#2	-.00108	66.729	.00117	.00336	6.0233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.58952**	**.00020**	**-.00198**	**.00063**
Stddev	.00022	.00539	.00007	.00159	.00043
%RSD	503.48	.91493	33.883	80.679	68.448
#1	.00011	.59333	.00025	-.00085	.00094
#2	-.00020	.58571	.00015	-.00310	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-L-3-B Acquired: 8/28/2017 17:38:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00747
Stddev	.00031
%RSD	4.1925
#1	.00769
#2	.00725
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3533.8	2480.1	19644.	4104.7
Stddev	7.9	.0	17.	37.2
%RSD	.22448	.00060	.08601	.90732
#1	3528.2	2480.1	19632.	4078.4
#2	3539.4	2480.1	19656.	4131.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.826%	92.638%	92.699%	98.043%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 17:42:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50949**	**23.830**	**.50235**	**.50732**	**.48798**
Stddev	.00059	.098	.00298	.00111	.00297
%RSD	.11521	.41237	.59226	.21859	.60905
#1	.50907	23.761	.50446	.50811	.48588
#2	.50990	23.900	.50025	.50654	.49008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49725**	**24.515**	**.50054**	**.0029**	**.49066**
Stddev	.00189	.121	.00026	.0020	.00095
%RSD	.38034	.49546	.05220	69.62	.19310
#1	.49592	24.429	.50072	.0015	.48999
#2	.49859	24.601	.50035	.0044	.49133
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51408**	**.50032**	**23.728**	**25.317**	**.50366**
Stddev	.00143	.00256	.146	.197	.00194
%RSD	.27914	.51247	.61443	.77836	.38520
#1	.51307	.49851	23.625	25.177	.50229
#2	.51510	.50214	23.832	25.456	.50503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 17:42:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.006**	**.50932**	**.50045**	**25.150**	**.49907**
Stddev	.119	.00169	.00068	.113	.00012
%RSD	.47739	.33088	.13638	.45099	.02327
#1	24.922	.50813	.49997	25.070	.49915
#2	25.091	.51051	.50093	25.230	.49899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49502**	**25.356**	**.49962**	**.50085**	**23.786**
Stddev	.00086	.022	.00062	.00120	.115
%RSD	.17309	.08865	.12432	.23945	.48373
#1	.49442	25.372	.49918	.50170	23.704
#2	.49563	25.340	.50006	.50000	23.867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51206**	**.49866**	**.50174**	**.50503**	**.50676**
Stddev	.00071	.00187	.00369	.00362	.00027
%RSD	.13778	.37532	.73533	.71768	.05264
#1	.51156	.49734	.49913	.50247	.50657
#2	.51256	.49999	.50434	.50760	.50695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 17:42:34 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.51006**
Stddev	.00030
%RSD	.05964
#1	.51027
#2	.50984
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3687.4**	**2613.1**	**20429.**	**4145.0**
Stddev	3.0	2.5	33.	47.1
%RSD	.08263	.09649	.16179	1.1368
#1	3685.3	2611.3	20452.	4178.3
#2	3689.6	2614.9	20405.	4111.7

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:46:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.02632**	**-.00013**	**.00157**	**-.00012**
Stddev	.00035	.00169	.00104	.00023	.00001
%RSD	529.99	6.4350	799.33	14.619	11.317
#1	.00018	-.02751	.00060	.00173	-.00013
#2	-.00031	-.02512	-.00086	.00140	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00583**	**-.00009**	**-.0026**	**-.00005**
Stddev	.00000	.00119	.00001	.0086	.00005
%RSD	1.6700	20.416	6.1030	332.6	89.761
#1	-.00013	-.00499	-.00008	.0035	-.00009
#2	-.00014	-.00667	-.00009	-.0086	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**-.00051**	**-.00703**	**.09570**	**-.00078**
Stddev	.00047	.00072	.00245	.00772	.00145
%RSD	135.02	141.65	34.855	8.0670	184.62
#1	-.00002	.00000	-.00876	.09024	.00024
#2	-.00068	-.00101	-.00530	.10116	-.00181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:46:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01180**	**-.00008**	**-.00025**	**.04491**	**.00033**
Stddev	.00097	.00002	.00021	.00072	.00014
%RSD	8.2250	25.398	82.743	1.6090	42.324
#1	-.01249	-.00007	-.00040	.04542	.00043
#2	-.01111	-.00010	-.00011	.04440	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00099**	**-.00477**	**-.00006**	**.00133**	**-.01226**
Stddev	.00080	.00132	.00174	.00106	.01426
%RSD	80.872	27.631	2716.3	79.260	116.35
#1	-.00155	-.00384	-.00130	.00059	-.02234
#2	-.00042	-.00570	.00117	.00208	-.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00007**	**-.00022**	**-.00067**	**.00030**
Stddev	.00024	.00004	.00020	.00179	.00024
%RSD	182.68	55.806	91.896	268.36	82.378
#1	.00004	-.00010	-.00036	-.00193	.00047
#2	-.00030	-.00004	-.00008	.00060	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 17:46:02 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00013
Stddev	.00003
%RSD	23.116
#1	.00015
#2	.00011
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4117.1	2667.6	21190.	4143.3
Stddev	3.2	.1	27.	5.3
%RSD	.07690	.00363	.12844	.12870
#1	4119.3	2667.5	21210.	4147.1
#2	4114.8	2667.6	21171.	4139.5

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:49:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00618**	**.18738**	**.01619**	**.02125**	**.00201**
Stddev	.00024	.03206	.00233	.00010	.00003
%RSD	3.8296	17.111	14.401	.45046	1.7434
#1	.00634	.21006	.01784	.02118	.00203
#2	.00601	.16471	.01454	.02131	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**.49695**	**.00198**	**-.0025**	**.00365**
Stddev	.00003	.00435	.00006	.0305	.00003
%RSD	1.4383	.87492	2.9703	1231.	.77536
#1	.00192	.49388	.00193	-.0241	.00367
#2	.00188	.50003	.00202	.0191	.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00466**	**.01084**	**.04439**	**.57521**	**.03063**
Stddev	.00041	.00038	.00238	.00288	.00262
%RSD	8.8659	3.4696	5.3613	.50060	8.5623
#1	.00496	.01111	.04270	.57317	.03249
#2	.00437	.01058	.04607	.57724	.02878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:49:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20216**	**.00303**	**.00995**	**1.0564**	**.00964**
Stddev	.00495	.00005	.00002	.0034	.00049
%RSD	2.4504	1.5329	.23188	.32038	5.1278
#1	.19866	.00306	.00996	1.0588	.00999
#2	.20567	.00299	.00993	1.0540	.00929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00977**	**.19673**	**.02150**	**.02769**	**.48046**
Stddev	.00002	.00322	.00029	.00245	.00174
%RSD	.18094	1.6348	1.3624	8.8400	.36142
#1	.00978	.19445	.02171	.02942	.48169
#2	.00975	.19900	.02130	.02596	.47923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00929**	**.00507**	**.00494**	**.01857**	**.00528**
Stddev	.00016	.00003	.00008	.00143	.00036
%RSD	1.6834	.65116	1.5662	7.6939	6.8628
#1	.00918	.00509	.00499	.01756	.00502
#2	.00940	.00504	.00488	.01959	.00553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 17:49:42 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01147
Stddev	.00048
%RSD	4.1601
#1	.01181
#2	.01114
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4094.2	2670.7	21182.	4139.9
Stddev	2.9	3.6	84.	13.2
%RSD	.07103	.13481	.39446	.31890
#1	4092.1	2668.2	21123.	4149.3
#2	4096.2	2673.3	21241.	4130.6

Sample Name: 480-123168-D-1-B Acquired: 8/28/2017 17:53:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.03411**	**.04138**	**4.8182**	**.27620**
Stddev	.00064	.01485	.00083	.0008	.00111
%RSD	1091.7	43.535	1.9980	.01674	.40224
#1	.00039	.04462	.04196	4.8176	.27541
#2	-.00051	.02361	.04079	4.8188	.27698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**52.528**	**.00013**	**.0130**	**.01210**
Stddev	.00003	.064	.00007	.0027	.00001
%RSD	13.155	.12202	49.564	21.20	.04877
#1	-.00026	52.483	.00018	.0110	.01209
#2	-.00022	52.574	.00009	.0149	.01210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03592**	**.01734**	**2.2929**	**219.32**	**.08226**
Stddev	.00014	.00052	.0038	.21	.00181
%RSD	.40084	2.9786	.16426	.09373	2.2054
#1	.03582	.01698	2.2955	219.18	.08098
#2	.03602	.01771	2.2902	219.47	.08355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-D-1-B Acquired: 8/28/2017 17:53:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.160**	**.15013**	**.00997**	**786.32**	**.12524**
Stddev	.101	.00011	.00039	.68	.00030
%RSD	.12945	.07350	3.9014	.08591	.24099
#1	78.089	.15021	.00969	785.84	.12545
#2	78.232	.15006	.01024	786.80	.12503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00445**	**29.616**	**.01213**	**.00325**	**13.015**
Stddev	.00003	.006	.00288	.00043	.029
%RSD	.77504	.02181	23.730	13.236	.22517
#1	.00443	29.621	.01009	.00355	12.994
#2	.00448	29.612	.01416	.00295	13.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00708**	**.39467**	**.02863**	**-.00299**	**.01594**
Stddev	.00027	.00105	.00005	.00081	.00046
%RSD	3.8550	.26710	.19010	27.137	2.8749
#1	.00727	.39392	.02859	-.00357	.01626
#2	.00689	.39541	.02866	-.00242	.01561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-D-1-B Acquired: 8/28/2017 17:53:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02658
Stddev	.00128
%RSD	4.8081
#1	.02748
#2	.02567
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3101.0	2389.1	18365.	4095.0
Stddev	4.3	4.9	40.	6.0
%RSD	.13746	.20673	.21901	.14752
#1	3098.0	2385.6	18393.	4099.2
#2	3104.0	2392.6	18336.	4090.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.315%	89.238%	86.663%	97.810%
Range				

Sample Name: 480-123168-D-2-B Acquired: 8/28/2017 17:56:58 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.01385**	**.03746**	**4.6673**	**.21497**
Stddev	.00057	.00357	.00228	.0020	.00066
%RSD	517.75	25.781	6.0733	.04221	.30709
#1	.00029	.01132	.03585	4.6659	.21450
#2	-.00051	.01637	.03907	4.6687	.21543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**40.200**	**.00027**	**.0245**	**.01092**
Stddev	.00001	.076	.00009	.0145	.00006
%RSD	9.5332	.18841	34.503	59.02	.54851
#1	-.00011	40.253	.00020	.0347	.01088
#2	-.00010	40.146	.00033	.0143	.01096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03315**	**.00034**	**2.8256**	**210.31**	**.07962**
Stddev	.00033	.00132	.0142	.79	.00122
%RSD	.99139	388.48	.50145	.37769	1.5370
#1	.03338	.00127	2.8357	210.87	.07875
#2	.03292	-.00059	2.8156	209.75	.08048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-D-2-B Acquired: 8/28/2017 17:56:58 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.539**	**.10151**	**.01240**	**751.35**	**.11951**
Stddev	.018	.00034	.00000	2.31	.00003
%RSD	.02554	.33325	.02871	.30730	.02403
#1	68.527	.10127	.01239	752.99	.11949
#2	68.552	.10175	.01240	749.72	.11953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00298**	**25.361**	**.01230**	**.00254**	**11.414**
Stddev	.00214	.020	.00138	.00272	.007
%RSD	72.006	.07733	11.198	107.23	.06376
#1	.00146	25.375	.01133	.00446	11.419
#2	.00449	25.347	.01328	.00061	11.409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00727**	**.32583**	**.02615**	**-.00357**	**.01512**
Stddev	.00027	.00005	.00029	.00084	.00044
%RSD	3.7458	.01636	1.1088	23.642	2.8883
#1	.00708	.32587	.02636	-.00416	.01481
#2	.00746	.32579	.02595	-.00297	.01543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-D-2-B Acquired: 8/28/2017 17:56:58 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02080**
Stddev	.00078
%RSD	3.7431
#1	.02025
#2	.02135
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3133.0**	**2404.1**	**18487.**	**4101.4**
Stddev	.5	2.1	6.	13.5
%RSD	.01713	.08680	.03498	.32922
#1	3133.4	2405.6	18482.	4091.8
#2	3132.6	2402.6	18491.	4110.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.092%	89.798%	87.239%	97.963%
Range				

Sample Name: 480-123168-D-3-B Acquired: 8/28/2017 18:00:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.22679**	**.08538**	**9.3803**	**.82103**
Stddev	.00014	.00060	.00096	.0057	.00129
%RSD	23.172	.26577	1.1272	.06104	.15679
#1	.00071	.22637	.08470	9.3844	.82194
#2	.00051	.22722	.08607	9.3763	.82012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**50.166**	**.00060**	**.0077**	**.04280**
Stddev	.00000	.100	.00008	.0006	.00052
%RSD	2.7817	.19925	12.930	7.543	1.2198
#1	-.00013	50.237	.00066	.0073	.04243
#2	-.00014	50.095	.00055	.0081	.04316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23421**	**.00264**	**4.2127**	F **583.58**	**.18402**
Stddev	.00073	.00076	.0029	1.23	.00113
%RSD	.31283	28.840	.06814	.21068	.61257
#1	.23369	.00318	4.2107	584.45	.18482
#2	.23473	.00210	4.2148	582.71	.18323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-123168-D-3-B Acquired: 8/28/2017 18:00:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**119.83**	**.12044**	**.00996**	**1896.7**	**.36609**
Stddev	.20	.00005	.00006	3.9	.00074
%RSD	.16370	.04096	.63736	.20630	.20198
#1	119.69	.12041	.00991	1899.5	.36661
#2	119.97	.12048	.01000	1894.0	.36557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00745**	**43.567**	**.01708**	**.00789**	**25.811**
Stddev	.00055	.015	.00024	.00271	.047
%RSD	7.4272	.03372	1.3926	34.369	.18359
#1	.00706	43.577	.01691	.00597	25.778
#2	.00784	43.557	.01725	.00981	25.845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03588**	**.52104**	**.22264**	**-.00378**	**.07969**
Stddev	.00006	.00138	.00025	.00253	.00049
%RSD	.17357	.26395	.11187	66.890	.61949
#1	.03584	.52202	.22282	-.00557	.07934
#2	.03592	.52007	.22246	-.00199	.08004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-D-3-B Acquired: 8/28/2017 18:00:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.35186**
Stddev	.00051
%RSD	.14507
#1	.35150
#2	.35222
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2816.8**	**2269.9**	**17210.**	**4044.5**
Stddev	.2	1.8	16.	5.0
%RSD	.00535	.08099	.09342	.12465
#1	2816.7	2268.6	17199.	4048.0
#2	2817.0	2271.2	17221.	4040.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.413%	84.788%	81.213%	96.604%
Range				

Sample Name: BLANK Acquired: 8/28/2017 18:04:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.02440**	**.00135**	**.01584**	**-.00013**
Stddev	.00019	.00450	.00023	.00125	.00002
%RSD	100.43	18.450	17.208	7.9180	13.095
#1	.00032	-.02122	.00119	.01672	-.00014
#2	.00005	-.02758	.00152	.01495	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00432**	**-.00032**	**.0006**	**.00003**
Stddev	.00007	.00049	.00016	.0120	.00003
%RSD	54.424	11.397	50.680	2084.	105.02
#1	-.00007	-.00397	-.00044	-.0079	.00005
#2	-.00017	-.00467	-.00021	.0090	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00020**	**-.00657**	**.37222**	**-.00022**
Stddev	.00040	.00033	.00097	.00758	.00064
%RSD	5917.3	159.41	14.787	2.0365	288.00
#1	.00027	.00044	-.00726	.37758	.00023
#2	-.00029	-.00003	-.00588	.36686	-.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 18:04:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00679**	**-.00005**	**-.00036**	**.19351**	**.00010**
Stddev	.00761	.00001	.00007	.02022	.00033
%RSD	112.00	21.569	20.162	10.448	338.92
#1	-.00141	-.00006	-.00041	.20781	-.00014
#2	-.01218	-.00005	-.00031	.17922	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00032**	**.00015**	**.00384**	**.06839**
Stddev	.00044	.00102	.00099	.00198	.00644
%RSD	87.971	315.40	664.82	51.705	9.4165
#1	-.00081	-.00104	.00085	.00243	.07294
#2	-.00019	.00040	-.00055	.00524	.06383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00002**	**.00022**	**-.00165**	**.00024**
Stddev	.00028	.00004	.00034	.00109	.00033
%RSD	95.962	159.55	155.88	66.323	137.09
#1	-.00049	.00000	-.00002	-.00242	.00047
#2	-.00009	-.00005	.00046	-.00088	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 18:04:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00002**
Stddev	.00006
%RSD	358.49
#1	.00003
#2	-.00006
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4136.1**	**2680.5**	**21371.**	**4142.5**
Stddev	7.7	4.7	100.	10.3
%RSD	.18521	.17408	.46947	.24824
#1	4141.5	2683.8	21301.	4135.2
#2	4130.6	2677.2	21442.	4149.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.45%	100.12%	100.85%	98.946%
Range				

Sample Name: MB 480-373973/1-C Acquired: 8/28/2017 18:07:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.02445**	**.00110**	**.01083**	**-.00006**
Stddev	.00033	.00086	.00038	.00009	.00001
%RSD	65.425	3.5223	34.225	.83920	19.685
#1	.00027	.02506	.00083	.01090	-.00007
#2	.00074	.02384	.00137	.01077	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.02984**	**-.00010**	**.0018**	**.00014**
Stddev	.00018	.00080	.00013	.0088	.00001
%RSD	116.76	2.6725	120.49	490.2	4.6042
#1	-.00003	.03041	-.00019	.0080	.00015
#2	-.00028	.02928	-.00002	-.0044	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00097**	**-.00349**	**.20484**	**.00048**
Stddev	.00021	.00048	.00316	.01031	.00127
%RSD	41.881	49.002	90.423	5.0308	264.53
#1	-.00035	.00064	-.00126	.21213	-.00042
#2	-.00065	.00131	-.00572	.19755	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373973/1-C Acquired: 8/28/2017 18:07:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01045**	**.00027**	**-.00037**	**.13180**	**.00063**
Stddev	.00375	.00003	.00003	.00794	.00007
%RSD	35.866	10.335	8.3734	6.0239	11.588
#1	-.01310	.00025	-.00039	.13742	.00057
#2	-.00780	.00029	-.00035	.12619	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**.00250**	**.00038**	**.00197**	**.01371**
Stddev	.00023	.00196	.00008	.00096	.02879
%RSD	18.262	78.488	20.363	48.736	209.96
#1	-.00107	.00111	.00033	.00129	-.00665
#2	-.00139	.00389	.00044	.00265	.03407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00012**	**-.00022**	**-.00145**	**.00053**
Stddev	.00033	.00008	.00029	.00093	.00032
%RSD	366.96	66.603	134.12	64.214	59.723
#1	.00014	.00018	-.00001	-.00211	.00075
#2	-.00032	.00007	-.00042	-.00079	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373973/1-C Acquired: 8/28/2017 18:07:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00496**
Stddev	.00004
%RSD	.72020
#1	.00499
#2	.00494
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4147.6**	**2680.0**	**21396.**	**4174.6**
Stddev	3.6	7.5	162.	22.7
%RSD	.08617	.27868	.75720	.54457
#1	4150.2	2685.3	21281.	4158.5
#2	4145.1	2674.7	21511.	4190.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.73%	100.10%	100.97%	99.712%
Range				

Sample Name: LCS 480-373973/2-C Acquired: 8/28/2017 18:11:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04714**	**9.9886**	**.20062**	**.21390**	**.20604**
Stddev	.00067	.0520	.00085	.00037	.00025
%RSD	1.4175	.52076	.42617	.17321	.12306
#1	.04667	10.025	.20002	.21364	.20622
#2	.04761	9.9519	.20123	.21416	.20586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20266**	**9.9040**	**.20498**	**.0092**	**.19137**
Stddev	.00118	.0245	.00005	.0011	.00019
%RSD	.58344	.24688	.02413	11.40	.09795
#1	.20349	9.9212	.20502	.0085	.19150
#2	.20182	9.8867	.20495	.0100	.19124
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20438**	**.20450**	**10.063**	**10.249**	**.20712**
Stddev	.00134	.00098	.022	.076	.00091
%RSD	.65661	.47886	.22283	.74579	.44081
#1	.20533	.20519	10.079	10.303	.20777
#2	.20343	.20381	10.048	10.195	.20648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373973/2-C Acquired: 8/28/2017 18:11:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.307**	**.20972**	**.20480**	**10.137**	**.19712**
Stddev	.023	.00151	.00009	.063	.00024
%RSD	.22136	.72025	.04440	.62354	.12073
#1	10.323	.21079	.20486	10.182	.19729
#2	10.291	.20865	.20473	10.093	.19695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20323**	**10.091**	**.20284**	**.20392**	**9.9933**
Stddev	.00147	.002	.00090	.00114	.0723
%RSD	.72324	.02119	.44534	.55972	.72327
#1	.20219	10.090	.20221	.20473	10.044
#2	.20427	10.093	.20348	.20312	9.9422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18379**	**.20236**	**.19956**	**.20201**	**.20807**
Stddev	.00034	.00114	.00087	.00209	.00051
%RSD	.18733	.56127	.43548	1.0347	.24530
#1	.18355	.20316	.20018	.20349	.20843
#2	.18403	.20155	.19895	.20053	.20771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373973/2-C Acquired: 8/28/2017 18:11:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21033**
Stddev	.00331
%RSD	1.5759
#1	.21267
#2	.20798
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3897.2**	**2664.2**	**21109.**	**4249.2**
Stddev	4.7	1.3	31.	15.4
%RSD	.11996	.05029	.14614	.36245
#1	3893.9	2663.2	21087.	4238.4
#2	3900.5	2665.1	21130.	4260.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.651%	99.514%	99.611%	101.49%
Range				

Sample Name: 480-123220-D-1-B Acquired: 8/28/2017 18:15:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.04976**	**-.00031**	**.02283**	**.18502**
Stddev	.00078	.02157	.00047	.00027	.00015
%RSD	217.75	43.349	149.13	1.1715	.08115
#1	-.00091	.06502	-.00064	.02264	.18492
#2	.00019	.03451	.00002	.02302	.18513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**22.594**	**-.00012**	**.0182**	**-.00002**
Stddev	.00001	.103	.00012	.0144	.00001
%RSD	5.4449	.45399	100.73	79.14	68.673
#1	-.00018	22.522	-.00003	.0080	-.00001
#2	-.00020	22.667	-.00020	.0284	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00265**	**-.00296**	**1.4368**	**.00282**
Stddev	.00030	.00034	.00093	.0078	.00039
%RSD	358.39	12.744	31.339	.54346	13.755
#1	-.00030	.00241	-.00362	1.4424	.00254
#2	.00013	.00289	-.00230	1.4313	.00309
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-B Acquired: 8/28/2017 18:15:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8743**	**.00676**	**.00023**	**14.274**	**.00362**
Stddev	.0043	.00005	.00002	.076	.00005
%RSD	.08764	.69979	7.0458	.53188	1.4246
#1	4.8713	.00679	.00022	14.220	.00358
#2	4.8773	.00673	.00024	14.327	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**2.7020**	**.00108**	**.00473**	**5.4363**
Stddev	.00097	.0012	.00340	.00189	.0623
%RSD	785.27	.04537	314.00	40.030	1.1459
#1	-.00056	2.7028	.00349	.00607	5.3923
#2	.00081	2.7011	-.00132	.00339	5.4803
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.07733**	**-.00029**	**-.00162**	**-.00000**
Stddev	.00034	.00026	.00044	.00084	.00044
%RSD	609.96	.33002	149.01	52.134	13553.
#1	-.00030	.07715	.00002	-.00221	-.00032
#2	.00018	.07751	-.00060	-.00102	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-B Acquired: 8/28/2017 18:15:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01295
Stddev	.00032
%RSD	2.4918
#1	.01318
#2	.01272
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3932.9	2642.5	20951.	4182.5
Stddev	4.8	1.9	82.	22.7
%RSD	.12329	.07268	.39214	.54346
#1	3929.5	2643.9	21009.	4198.6
#2	3936.3	2641.1	20893.	4166.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.518%	98.704%	98.866%	99.901%
Range				

Sample Name: 480-123220-D-1-BSD@5 Acquired: 8/28/2017 18:18:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.05604**	**.00054**	**.00751**	**.03668**
Stddev	.00032	.01139	.00303	.00015	.00005
%RSD	170.87	20.318	563.63	2.0333	.14814
#1	-.00004	.06409	.00268	.00762	.03664
#2	.00042	.04799	-.00161	.00740	.03672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**4.4661**	**-.00035**	**.0031**	**-.00002**
Stddev	.00011	.0057	.00004	.0122	.00005
%RSD	49.026	.12766	11.742	387.4	247.25
#1	-.00015	4.4702	-.00038	-.0055	-.00006
#2	-.00031	4.4621	-.00032	.0118	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00027**	**-.00757**	**.38205**	**.00016**
Stddev	.00008	.00080	.00010	.00074	.00026
%RSD	31.353	294.18	1.3767	.19256	161.35
#1	.00019	.00083	-.00765	.38153	.00035
#2	.00030	-.00029	-.00750	.38257	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-BSD@5 Acquired: 8/28/2017 18:18:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96418**	**.00136**	**-.00038**	**2.8532**	**.00078**
Stddev	.00135	.00000	.00005	.0106	.00007
%RSD	.13950	.15037	13.128	.37126	8.3921
#1	.96323	.00136	-.00042	2.8607	.00083
#2	.96513	.00136	-.00035	2.8457	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**.51603**	**-.00143**	**-.00069**	**1.0634**
Stddev	.00136	.00299	.00098	.00094	.0090
%RSD	175.94	.57946	68.581	136.11	.84422
#1	.00019	.51814	-.00074	-.00135	1.0571
#2	-.00174	.51391	-.00213	-.00003	1.0698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.01513**	**-.00017**	**-.00153**	**.00002**
Stddev	.00040	.00007	.00007	.00063	.00003
%RSD	201.49	.43499	39.341	41.069	173.05
#1	-.00008	.01518	-.00013	-.00108	.00004
#2	.00048	.01509	-.00022	-.00197	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-BSD@5 Acquired: 8/28/2017 18:18:37 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00344**
Stddev	.00002
%RSD	.61097
#1	.00342
#2	.00345
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4050.9**	**2657.4**	**21090.**	**4164.7**
Stddev	4.1	2.7	63.	3.5
%RSD	.10239	.10308	.29832	.08362
#1	4048.0	2659.3	21135.	4167.2
#2	4053.9	2655.4	21046.	4162.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.385%	99.259%	99.525%	99.476%
Range				

Sample Name: 480-123220-D-1-BPDS Acquired: 8/28/2017 18:22:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04941	9.7075	.20546	.22167	.37757
Stddev	.00041	.0163	.00196	.00083	.00048
%RSD	.82857	.16742	.95160	.37266	.12590
#1	.04970	9.6960	.20408	.22109	.37723
#2	.04912	9.7190	.20685	.22225	.37790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20533	31.802	.20814	.0056	.19430
Stddev	.00018	.019	.00027	.0134	.00052
%RSD	.08892	.05933	.12939	241.4	.26653
#1	.20520	31.815	.20833	-.0039	.19467
#2	.20546	31.788	.20795	.0151	.19394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20662	.20746	10.177	11.249	.20455
Stddev	.00042	.00039	.035	.042	.00137
%RSD	.20229	.19003	.34054	.37272	.66841
#1	.20692	.20774	10.201	11.219	.20358
#2	.20633	.20718	10.152	11.279	.20551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-BPDS Acquired: 8/28/2017 18:22:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.112**	**.21500**	**.20154**	**23.582**	**.20129**
Stddev	.041	.00073	.00008	.001	.00026
%RSD	.27013	.34065	.04103	.00331	.12913
#1	15.083	.21448	.20160	23.583	.20147
#2	15.141	.21551	.20148	23.581	.20111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20714**	**12.566**	**.20994**	**.20692**	**15.270**
Stddev	.00127	.002	.00005	.00136	.040
%RSD	.61548	.01256	.02343	.65796	.25881
#1	.20623	12.567	.20991	.20788	15.298
#2	.20804	12.565	.20998	.20596	15.242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20475**	**.27111**	**.20214**	**.20675**	**.20861**
Stddev	.00017	.00052	.00011	.00044	.00061
%RSD	.08296	.19001	.05209	.21482	.29185
#1	.20487	.27074	.20221	.20707	.20904
#2	.20463	.27147	.20206	.20644	.20818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-BPDS Acquired: 8/28/2017 18:22:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.22195**
Stddev	.00108
%RSD	.48683
#1	.22118
#2	.22271
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3780.0**	**2635.2**	**20756.**	**4193.8**
Stddev	2.8	.8	15.	.4
%RSD	.07292	.02972	.07301	.01000
#1	3778.1	2634.6	20745.	4193.5
#2	3782.0	2635.7	20766.	4194.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.806%	98.429%	97.945%	100.17%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 18:25:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50895**	**24.128**	**.50145**	**.51030**	**.49060**
Stddev	.00191	.135	.00279	.00043	.00129
%RSD	.37569	.55822	.55719	.08385	.26276
#1	.51030	24.032	.50343	.51000	.48969
#2	.50760	24.223	.49948	.51060	.49151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50239**	**24.658**	**.50126**	**.0115**	**.48949**
Stddev	.00138	.010	.00070	.0350	.00070
%RSD	.27467	.04079	.13998	304.4	.14205
#1	.50142	24.651	.50076	.0362	.48900
#2	.50337	24.665	.50175	-.0132	.48998
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51174**	**.50194**	**23.783**	**25.413**	**.51368**
Stddev	.00086	.00129	.049	.025	.00060
%RSD	.16750	.25683	.20695	.09891	.11748
#1	.51113	.50102	23.818	25.431	.51325
#2	.51234	.50285	23.748	25.395	.51410
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 18:25:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.938**	**.51029**	**.50102**	**25.326**	**.49660**
Stddev	.000	.00084	.00064	.057	.00034
%RSD	.00192	.16480	.12719	.22415	.06763
#1	24.938	.50969	.50056	25.285	.49636
#2	24.937	.51088	.50147	25.366	.49683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49679**	**25.443**	**.50305**	**.50461**	**23.998**
Stddev	.00176	.010	.00030	.00264	.000
%RSD	.35442	.03910	.06018	.52281	.00039
#1	.49803	25.436	.50326	.50647	23.998
#2	.49554	25.450	.50284	.50274	23.998
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51158**	**.50403**	**.49905**	**.50624**	**.50524**
Stddev	.00059	.00070	.00025	.00285	.00041
%RSD	.11613	.13805	.04962	.56243	.08048
#1	.51116	.50353	.49922	.50423	.50553
#2	.51200	.50452	.49887	.50826	.50496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 18:25:41 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50742**
Stddev	.00002
%RSD	.00334
#1	.50743
#2	.50740
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3691.7**	**2609.8**	**20406.**	**4102.1**
Stddev	.9	2.6	10.	11.8
%RSD	.02477	.09814	.04996	.28754
#1	3691.1	2611.6	20413.	4110.4
#2	3692.4	2608.0	20399.	4093.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 18:29:09 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.01191**	**-.00187**	**.00255**	**-.00013**
Stddev	.00020	.00215	.00031	.00048	.00003
%RSD	178.63	18.012	16.405	18.926	19.221
#1	-.00026	-.01343	-.00209	.00289	-.00011
#2	.00003	-.01039	-.00166	.00221	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00442**	**-.00013**	**-.0228**	**.00002**
Stddev	.00007	.00230	.00014	.0115	.00007
%RSD	40.191	52.107	106.58	50.35	313.38
#1	-.00022	-.00279	-.00003	-.0310	.00007
#2	-.00012	-.00605	-.00023	-.0147	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00011**	**-.00814**	**.07999**	**.00003**
Stddev	.00041	.00004	.00194	.02324	.00024
%RSD	1183.9	32.907	23.886	29.054	766.35
#1	.00026	.00014	-.00676	.06356	-.00014
#2	-.00033	.00009	-.00951	.09643	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 18:29:09 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00187**	**-.00008**	**-.00010**	**.04939**	**.00017**
Stddev	.00094	.00007	.00006	.00474	.00004
%RSD	50.369	89.990	65.635	9.5993	23.914
#1	-.00253	-.00013	-.00014	.05274	.00014
#2	-.00120	-.00003	-.00005	.04603	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00226**	**-.00550**	**-.00031**	**.00373**	**-.01053**
Stddev	.00005	.00007	.00126	.00115	.00691
%RSD	2.0584	1.3309	403.38	30.749	65.613
#1	-.00223	-.00545	.00058	.00454	-.01542
#2	-.00229	-.00556	-.00120	.00292	-.00565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00002**	**-.00002**	**-.00090**	**.00010**
Stddev	.00042	.00003	.00017	.00155	.00022
%RSD	342.45	169.53	884.14	171.68	219.85
#1	-.00042	-.00003	-.00014	.00019	.00026
#2	.00018	.00000	.00010	-.00199	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 18:29:09 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00001**
Stddev	.00013
%RSD	1322.5
#1	-.00011
#2	.00009
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4141.1**	**2675.8**	**21256.**	**4133.8**
Stddev	2.9	1.9	157.	4.5
%RSD	.07070	.07275	.73661	.10850
#1	4143.2	2677.2	21146.	4130.7
#2	4139.1	2674.4	21367.	4137.0

Sample Name: CCVL-4195955 Acquired: 8/28/2017 18:32:49 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00539**	**.17777**	**.01540**	**.02265**	**.00198**
Stddev	.00004	.00671	.00101	.00032	.00001
%RSD	.75363	3.7727	6.5835	1.4308	.45835
#1	.00542	.18252	.01468	.02288	.00197
#2	.00536	.17303	.01611	.02243	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.49142**	**.00186**	**-.0041**	**.00378**
Stddev	.00006	.00199	.00007	.0182	.00004
%RSD	3.0786	.40579	3.8396	446.9	1.0820
#1	.00191	.49283	.00191	-.0169	.00381
#2	.00183	.49001	.00181	.0088	.00376
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00400**	**.00988**	**.04108**	**.58823**	**.02882**
Stddev	.00060	.00056	.00145	.03688	.00174
%RSD	14.890	5.7157	3.5380	6.2692	6.0534
#1	.00442	.00948	.04210	.56215	.03005
#2	.00358	.01028	.04005	.61431	.02758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 18:32:49 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20035**	**.00309**	**.00960**	**1.0577**	**.00934**
Stddev	.00151	.00003	.00007	.0039	.00042
%RSD	.75340	.94458	.68657	.37087	4.5063
#1	.20142	.00307	.00964	1.0550	.00963
#2	.19928	.00311	.00955	1.0605	.00904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00893**	**.19595**	**.01979**	**.02428**	**.49120**
Stddev	.00064	.00547	.00091	.00075	.00003
%RSD	7.1928	2.7923	4.5969	3.0826	.00694
#1	.00848	.19208	.01915	.02375	.49123
#2	.00939	.19982	.02044	.02481	.49118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00924**	**.00509**	**.00496**	**.01935**	**.00515**
Stddev	.00003	.00005	.00041	.00036	.00031
%RSD	.36671	1.0334	8.2758	1.8381	6.0529
#1	.00921	.00513	.00525	.01910	.00537
#2	.00926	.00505	.00467	.01960	.00492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 18:32:49 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01085**
Stddev	.00015
%RSD	1.4140
#1	.01096
#2	.01074
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4105.7**	**2676.6**	**21325.**	**4127.6**
Stddev	.3	1.3	123.	19.2
%RSD	.00788	.04976	.57895	.46592
#1	4105.9	2675.7	21238.	4141.2
#2	4105.4	2677.6	21413.	4114.0

Sample Name: 480-123220-D-1-C MS Acquired: 8/28/2017 18:36:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04790	10.050	.20593	.22769	.38815
Stddev	.00015	.044	.00164	.00012	.00072
%RSD	.30852	.43560	.79757	.05058	.18511
#1	.04780	10.019	.20709	.22777	.38866
#2	.04801	10.081	.20476	.22761	.38764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20606	32.557	.20643	.0033	.19383
Stddev	.00098	.053	.00037	.0013	.00006
%RSD	.47674	.16198	.17790	39.01	.03236
#1	.20537	32.519	.20669	.0024	.19378
#2	.20676	32.594	.20617	.0043	.19387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20295	.20558	10.141	11.547	.21153
Stddev	.00005	.00083	.004	.104	.00002
%RSD	.02680	.40406	.04000	.90221	.01102
#1	.20298	.20617	10.138	11.473	.21151
#2	.20291	.20499	10.144	11.620	.21155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-C MS Acquired: 8/28/2017 18:36:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.180**	**.21511**	**.20626**	**24.558**	**.20229**
Stddev	.005	.00062	.00011	.047	.00036
%RSD	.03292	.29039	.05250	.18994	.17927
#1	15.176	.21555	.20634	24.525	.20204
#2	15.183	.21467	.20618	24.591	.20255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20699**	**12.955**	**.20273**	**.20791**	**15.488**
Stddev	.00104	.018	.00247	.00219	.021
%RSD	.50296	.14270	1.2181	1.0543	.13660
#1	.20625	12.968	.20448	.20636	15.503
#2	.20773	12.942	.20098	.20946	15.473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18654**	**.28129**	**.20092**	**.20435**	**.20964**
Stddev	.00074	.00024	.00116	.00017	.00023
%RSD	.39676	.08618	.57507	.08142	.11075
#1	.18602	.28112	.20173	.20423	.20980
#2	.18706	.28146	.20010	.20447	.20947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-C MS Acquired: 8/28/2017 18:36:27 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21808
Stddev	.00038
%RSD	.17515
#1	.21835
#2	.21781
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3778.7	2635.9	20758.	4158.9
Stddev	2.2	2.0	65.	2.6
%RSD	.05841	.07578	.31538	.06147
#1	3780.3	2634.5	20712.	4157.1
#2	3777.2	2637.3	20805.	4160.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.774%	98.456%	97.957%	99.337%
Range				

Sample Name: 480-123220-D-1-D MSD Acquired: 8/28/2017 18:39:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04734**	**9.9533**	**.20099**	**.22701**	**.39230**
Stddev	.00045	.1410	.00009	.00002	.00041
%RSD	.94011	1.4165	.04476	.00753	.10351
#1	.04703	10.053	.20106	.22702	.39201
#2	.04766	9.8536	.20093	.22700	.39258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20065**	**32.480**	**.20420**	**-.0131**	**.19134**
Stddev	.00144	.181	.00021	.0056	.00028
%RSD	.71934	.55746	.10165	42.90	.14685
#1	.20167	32.608	.20435	-.0091	.19154
#2	.19963	32.352	.20406	-.0171	.19114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20188**	**.20395**	**9.8936**	**11.385**	**.20770**
Stddev	.00133	.00070	.0686	.072	.00290
%RSD	.65796	.34361	.69380	.63005	1.3964
#1	.20282	.20444	9.9421	11.436	.20975
#2	.20094	.20345	9.8450	11.335	.20565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-D MSD Acquired: 8/28/2017 18:39:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.170**	**.21299**	**.20369**	**24.421**	**.19997**
Stddev	.016	.00016	.00004	.177	.00043
%RSD	.10289	.07453	.02198	.72464	.21452
#1	15.181	.21288	.20372	24.546	.20028
#2	15.159	.21310	.20366	24.296	.19967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20501**	**12.981**	**.20163**	**.20468**	**15.424**
Stddev	.00013	.033	.00113	.00234	.036
%RSD	.06517	.25634	.55876	1.1446	.23173
#1	.20492	13.004	.20083	.20634	15.449
#2	.20511	12.957	.20243	.20303	15.399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18591**	**.27990**	**.19961**	**.20223**	**.20694**
Stddev	.00000	.00175	.00031	.00023	.00077
%RSD	.00157	.62348	.15751	.11514	.37168
#1	.18591	.28113	.19983	.20206	.20748
#2	.18591	.27866	.19939	.20239	.20640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123220-D-1-D MSD Acquired: 8/28/2017 18:39:53 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21663
Stddev	.00048
%RSD	.22188
#1	.21629
#2	.21697
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3773.6	2632.1	20657.	4218.8
Stddev	.4	.6	21.	3.2
%RSD	.00989	.02280	.10368	.07486
#1	3773.3	2631.7	20672.	4216.5
#2	3773.8	2632.6	20641.	4221.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.649%	98.316%	97.477%	100.77%
Range				

Sample Name: BLANK Acquired: 8/28/2017 18:43:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.01120**	**-.00084**	**.00140**	**-.00011**
Stddev	.00078	.00139	.00024	.00035	.00002
%RSD	166.23	12.428	28.871	24.713	14.782
#1	.00008	-.01219	-.00067	.00116	-.00013
#2	-.00102	-.01022	-.00101	.00165	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**-.00182**	**-.00022**	**.0150**	**.00011**
Stddev	.00009	.00248	.00006	.0279	.00004
%RSD	55.235	136.34	29.435	186.7	39.206
#1	-.00023	-.00357	-.00017	.0347	.00008
#2	-.00010	-.00007	-.00026	-.0048	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00045**	**-.01008**	**.06030**	**-.00210**
Stddev	.00018	.00065	.00314	.01529	.00157
%RSD	210.63	143.94	31.170	25.349	74.910
#1	.00004	-.00090	-.00785	.07111	-.00099
#2	-.00021	.00001	-.01230	.04949	-.00321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 18:43:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00780**	**-.00007**	**-.00022**	**.03781**	**-.00025**
Stddev	.00357	.00009	.00021	.00411	.00016
%RSD	45.715	130.81	95.962	10.884	65.099
#1	-.01032	-.00014	-.00037	.03490	-.00014
#2	-.00528	-.00001	-.00007	.04072	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00088**	**-.00469**	**-.00068**	**.00181**	**-.00155**
Stddev	.00048	.00165	.00104	.00084	.00249
%RSD	54.908	35.273	152.10	46.518	160.84
#1	-.00054	-.00586	.00005	.00122	.00021
#2	-.00122	-.00352	-.00142	.00241	-.00331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00003**	**.00032**	**-.00028**	**.00014**
Stddev	.00024	.00003	.00017	.00001	.00034
%RSD	94.277	86.614	52.306	3.0429	252.85
#1	-.00008	-.00006	.00044	-.00029	-.00011
#2	-.00042	-.00001	.00020	-.00028	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/28/2017 18:43:19 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00001
Stddev	.00023
%RSD	1713.2
#1	.00018
#2	-.00015
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4143.5	2684.5	21399.	4159.2
Stddev	7.0	7.5	165.	24.2
%RSD	.16994	.27939	.77069	.58185
#1	4148.5	2689.8	21283.	4176.4
#2	4138.5	2679.2	21516.	4142.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.63%	100.27%	100.98%	99.345%
Range				

Sample Name: MB 480-374149/1-A Acquired: 8/28/2017 18:46:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.00436**	**.00121**	**.00298**	**-.00009**
Stddev	.00046	.00491	.00141	.00031	.00002
%RSD	318.55	112.55	116.64	10.559	25.829
#1	-.00047	.00089	.00221	.00276	-.00008
#2	.00018	.00784	.00021	.00320	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.02610**	**-.00005**	**-.0040**	**-.00004**
Stddev	.00008	.00405	.00004	.0104	.00003
%RSD	62.605	15.525	78.321	257.1	99.364
#1	-.00007	.02324	-.00008	.0033	-.00001
#2	-.00019	.02897	-.00002	-.0114	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00023**	**-.00545**	**.11112**	**-.00072**
Stddev	.00009	.00018	.00041	.06622	.00089
%RSD	43.029	74.695	7.5294	59.595	122.96
#1	-.00014	.00036	-.00574	.06429	-.00135
#2	-.00027	.00011	-.00516	.15795	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-374149/1-A Acquired: 8/28/2017 18:46:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00286**	**.00074**	**-.00043**	**.04528**	**.00005**
Stddev	.00035	.00003	.00012	.00222	.00004
%RSD	12.160	4.5486	27.997	4.8938	96.325
#1	-.00261	.00077	-.00051	.04684	.00001
#2	-.00310	.00072	-.00034	.04371	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00284**	**-.00115**	**.00063**	**-.00961**
Stddev	.00014	.00045	.00117	.00071	.00724
%RSD	31.478	15.851	101.95	114.28	75.347
#1	-.00056	-.00316	-.00032	.00012	-.01474
#2	-.00035	-.00252	-.00198	.00113	-.00449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.00013**	**-.00021**	**.00001**	**.00001**
Stddev	.00011	.00002	.00019	.00014	.00035
%RSD	15.792	16.563	90.624	1371.6	3664.7
#1	-.00076	.00011	-.00007	.00011	-.00024
#2	-.00061	.00014	-.00034	-.00009	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-374149/1-A Acquired: 8/28/2017 18:46:57 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00040**
Stddev	.00018
%RSD	44.815
#1	.00052
#2	.00027
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4164.0**	**2694.7**	**21547.**	**4223.6**
Stddev	1.1	1.2	58.	12.6
%RSD	.02746	.04364	.27047	.29850
#1	4164.8	2695.6	21505.	4232.5
#2	4163.2	2693.9	21588.	4214.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.13%	100.66%	101.68%	100.88%
Range				

Sample Name: LCS 480-374149/2-A Acquired: 8/28/2017 18:50:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04768**	**10.063**	**.20568**	**.21136**	**.20823**
Stddev	.00009	.055	.00296	.00114	.00119
%RSD	.18869	.54629	1.4381	.53836	.57192
#1	.04761	10.025	.20358	.21056	.20738
#2	.04774	10.102	.20777	.21217	.20907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20367**	**10.000**	**.20647**	**.0098**	**.19234**
Stddev	.00120	.063	.00017	.0095	.00038
%RSD	.58730	.63414	.08254	96.47	.19985
#1	.20282	9.9554	.20635	.0031	.19207
#2	.20452	10.045	.20659	.0165	.19261
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20330**	**.20579**	**10.168**	**10.269**	**.21048**
Stddev	.00063	.00036	.051	.012	.00006
%RSD	.30809	.17311	.49932	.11754	.03003
#1	.20286	.20554	10.132	10.260	.21052
#2	.20374	.20604	10.203	10.277	.21043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-374149/2-A Acquired: 8/28/2017 18:50:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.398**	**.21172**	**.20491**	**10.214**	**.19876**
Stddev	.067	.00099	.00064	.014	.00045
%RSD	.64774	.46705	.31240	.13355	.22655
#1	10.351	.21102	.20536	10.204	.19844
#2	10.446	.21242	.20445	10.224	.19908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20367**	**10.183**	**.20264**	**.20707**	**10.077**
Stddev	.00071	.012	.00016	.00002	.071
%RSD	.34901	.11827	.07777	.00799	.70306
#1	.20317	10.192	.20253	.20706	10.026
#2	.20418	10.175	.20275	.20708	10.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18398**	**.20415**	**.20057**	**.20566**	**.20798**
Stddev	.00066	.00086	.00128	.00293	.00078
%RSD	.35937	.42361	.64058	1.4253	.37660
#1	.18352	.20354	.19966	.20773	.20742
#2	.18445	.20476	.20148	.20359	.20853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-374149/2-A Acquired: 8/28/2017 18:50:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20724
Stddev	.00021
%RSD	.10161
#1	.20709
#2	.20739
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3904.1	2672.7	21080.	4230.9
Stddev	4.4	2.6	65.	47.3
%RSD	.11278	.09675	.30718	1.1179
#1	3907.2	2674.5	21126.	4264.4
#2	3900.9	2670.9	21034.	4197.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.818%	99.831%	99.474%	101.06%
Range				

Sample Name: LCSD 480-374149/3-A Acquired: 8/28/2017 18:54:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04719**	**9.9614**	**.20317**	**.21012**	**.20598**
Stddev	.00016	.0979	.00002	.00003	.00124
%RSD	.33063	.98242	.00988	.01407	.60172
#1	.04730	10.031	.20316	.21014	.20686
#2	.04708	9.8922	.20319	.21009	.20511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20274**	**9.9672**	**.20577**	**.0225**	**.19153**
Stddev	.00130	.0527	.00029	.0183	.00014
%RSD	.63935	.52880	.13932	81.22	.07407
#1	.20366	10.004	.20598	.0354	.19143
#2	.20183	9.9299	.20557	.0096	.19163
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20300**	**.20405**	**10.091**	**10.139**	**.20669**
Stddev	.00037	.00142	.005	.057	.00274
%RSD	.18094	.69577	.05049	.55756	1.3252
#1	.20274	.20506	10.095	10.179	.20863
#2	.20326	.20305	10.088	10.099	.20475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-374149/3-A Acquired: 8/28/2017 18:54:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.356**	**.21003**	**.20511**	**10.117**	**.19737**
Stddev	.023	.00102	.00010	.049	.00114
%RSD	.22486	.48597	.05107	.48646	.57808
#1	10.372	.21075	.20504	10.152	.19656
#2	10.339	.20931	.20518	10.082	.19817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20411**	**10.138**	**.20423**	**.20672**	**9.9782**
Stddev	.00207	.009	.00016	.00273	.0683
%RSD	1.0136	.08862	.07775	1.3207	.68453
#1	.20558	10.132	.20412	.20865	10.027
#2	.20265	10.144	.20435	.20479	9.9299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18213**	**.20215**	**.20002**	**.20362**	**.20738**
Stddev	.00059	.00104	.00179	.00052	.00076
%RSD	.32260	.51216	.89665	.25521	.36822
#1	.18172	.20288	.20129	.20325	.20792
#2	.18255	.20142	.19875	.20399	.20684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSD 480-374149/3-A Acquired: 8/28/2017 18:54:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20599
Stddev	.00127
%RSD	.61417
#1	.20510
#2	.20689
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3911.3	2672.8	21196.	4237.1
Stddev	2.4	2.2	104.	29.8
%RSD	.06060	.08185	.49135	.70441
#1	3913.0	2671.3	21122.	4216.0
#2	3909.7	2674.4	21269.	4258.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.995%	99.837%	100.02%	101.20%
Range				

Sample Name: 480-123261-D-1-A Acquired: 8/28/2017 18:57:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.05797**	**.00728**	**.08378**	**.27002**
Stddev	.00098	.00076	.00210	.00082	.00086
%RSD	2532.0	1.3140	28.878	.97955	.31861
#1	-.00066	.05743	.00579	.08436	.27063
#2	.00073	.05851	.00876	.08320	.26941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**107.05**	**.00037**	**-.0197**	**-.00010**
Stddev	.00001	.08	.00004	.0070	.00008
%RSD	3.3521	.07078	11.991	35.66	77.723
#1	-.00016	106.99	.00041	-.0147	-.00005
#2	-.00015	107.10	.00034	-.0247	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**.05393**	**3.2502**	**12.193**	**.00133**
Stddev	.00016	.00038	.0075	.044	.00037
%RSD	19.705	.70956	.23171	.35913	27.389
#1	.00069	.05421	3.2449	12.162	.00159
#2	.00092	.05366	3.2555	12.224	.00107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-A Acquired: 8/28/2017 18:57:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.473**	**.48288**	**.00049**	**398.63**	**.00065**
Stddev	.025	.00122	.00010	.23	.00023
%RSD	.16331	.25353	19.516	.05685	34.879
#1	15.455	.48374	.00056	398.79	.00049
#2	15.491	.48201	.00042	398.47	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**4.2787**	**-.00077**	**.00361**	**7.3737**
Stddev	.00080	.0047	.00009	.00192	.0009
%RSD	99.193	.11033	11.475	53.005	.01265
#1	.00024	4.2753	-.00084	.00497	7.3744
#2	.00138	4.2820	-.00071	.00226	7.3731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.66787**	**-.00014**	**-.00056**	**-.00027**
Stddev	.00026	.00038	.00027	.00014	.00005
%RSD	245.65	.05646	190.69	25.251	18.628
#1	-.00008	.66814	-.00034	-.00046	-.00030
#2	.00029	.66761	.00005	-.00066	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-A Acquired: 8/28/2017 18:57:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02429**
Stddev	.00031
%RSD	1.2792
#1	.02451
#2	.02407
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3298.9**	**2473.9**	**19177.**	**4075.6**
Stddev	1.3	1.8	28.	19.5
%RSD	.04011	.07121	.14626	.47963
#1	3297.9	2472.6	19157.	4089.4
#2	3299.8	2475.1	19197.	4061.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.120%	92.406%	90.496%	97.347%
Range				

Sample Name: 480-123261-D-1-Apds Acquired: 8/28/2017 19:01:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05116**	**9.9503**	**.21836**	**.28587**	**.45483**
Stddev	.00027	.0155	.00231	.00009	.00103
%RSD	.53483	.15547	1.0598	.03237	.22694
#1	.05097	9.9394	.21999	.28593	.45410
#2	.05136	9.9613	.21672	.28580	.45556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20507**	**113.30**	**.21161**	**-.0140**	**.20218**
Stddev	.00062	.38	.00014	.0021	.00017
%RSD	.30075	.33934	.06492	15.07	.08171
#1	.20463	113.03	.21151	-.0125	.20206
#2	.20550	113.57	.21171	-.0155	.20230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20600**	**.25799**	**13.092**	**21.962**	**.20720**
Stddev	.00112	.00292	.063	.100	.00173
%RSD	.54412	1.1315	.48259	.45487	.83624
#1	.20520	.25592	13.047	21.891	.20843
#2	.20679	.26005	13.137	22.033	.20598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-Apds Acquired: 8/28/2017 19:01:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.868**	**.66724**	**.19872**	**394.43**	**.20544**
Stddev	.093	.00101	.00010	.47	.00067
%RSD	.37444	.15102	.05007	.11805	.32769
#1	24.802	.66653	.19865	394.10	.20592
#2	24.934	.66796	.19879	394.76	.20496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21268**	**14.868**	**.21193**	**.21088**	**17.183**
Stddev	.00063	.016	.00023	.00132	.055
%RSD	.29633	.11036	.10803	.62828	.31995
#1	.21312	14.880	.21209	.21182	17.144
#2	.21223	14.857	.21177	.20995	17.222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21534**	**.85102**	**.20250**	**.19992**	**.20832**
Stddev	.00099	.00069	.00008	.00085	.00064
%RSD	.46006	.08140	.04126	.42329	.30756
#1	.21464	.85053	.20244	.19932	.20786
#2	.21604	.85151	.20256	.20052	.20877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-Apds Acquired: 8/28/2017 19:01:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.23589
Stddev	.00104
%RSD	.43963
#1	.23516
#2	.23663
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3274.5	2482.0	19258.	4109.6
Stddev	5.3	2.9	34.	16.6
%RSD	.16042	.11694	.17832	.40445
#1	3278.2	2484.1	19282.	4121.4
#2	3270.7	2480.0	19234.	4097.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.527%	92.710%	90.878%	98.159%
Range				

Sample Name: 480-123261-D-1-Asd@5 Acquired: 8/28/2017 19:04:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01110**	**.00133**	**.01751**	**.05411**
Stddev	.00042	.02186	.00028	.00028	.00023
%RSD	611.43	197.03	21.155	1.5730	.41846
#1	.00023	-.00436	.00113	.01771	.05427
#2	-.00036	.02656	.00153	.01732	.05395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**21.000**	**-.00003**	**-.0145**	**.00002**
Stddev	.00003	.021	.00001	.0185	.00004
%RSD	21.446	.09907	23.592	128.0	180.73
#1	-.00014	20.985	-.00002	-.0276	-.00001
#2	-.00018	21.014	-.00003	-.0014	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01146**	**.64204**	**2.4494**	**.00037**
Stddev	.00011	.00013	.00488	.0004	.00051
%RSD	164.11	1.1095	.75974	.01467	136.64
#1	-.00014	.01137	.64549	2.4496	.00001
#2	.00001	.01155	.63860	2.4491	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-Asd@5 Acquired: 8/28/2017 19:04:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1044**	**.09651**	**-.00031**	**78.524**	**.00023**
Stddev	.0040	.00018	.00000	.189	.00020
%RSD	.12728	.19090	1.3540	.24045	90.646
#1	3.1016	.09664	-.00031	78.658	.00037
#2	3.1072	.09638	-.00030	78.391	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.79622**	**.00047**	**-.00013**	**1.4341**
Stddev	.00067	.00381	.00306	.00170	.0109
%RSD	334.42	.47870	645.87	1328.8	.76076
#1	.00027	.79352	.00264	-.00133	1.4263
#2	-.00067	.79891	-.00169	.00107	1.4418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.13181**	**-.00040**	**-.00073**	**.00045**
Stddev	.00012	.00042	.00005	.00109	.00021
%RSD	65.587	.31828	11.501	148.85	45.324
#1	-.00027	.13211	-.00043	-.00150	.00031
#2	-.00010	.13152	-.00037	.00004	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-Asd@5 Acquired: 8/28/2017 19:04:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00444**
Stddev	.00020
%RSD	4.5376
#1	.00458
#2	.00430
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3703.4**	**2583.2**	**20247.**	**4112.2**
Stddev	4.2	.0	11.	11.4
%RSD	.11403	.00130	.05393	.27783
#1	3700.4	2583.2	20240.	4104.1
#2	3706.4	2583.2	20255.	4120.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.945%	96.488%	95.547%	98.220%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:08:16 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50675**	**24.024**	**.50223**	**.50699**	**.49388**
Stddev	.00046	.084	.00177	.00055	.00073
%RSD	.09114	.35096	.35336	.10891	.14706
#1	.50643	23.965	.50098	.50660	.49440
#2	.50708	24.084	.50349	.50738	.49337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49892**	**24.536**	**.50089**	**-.0127**	**.49012**
Stddev	.00046	.159	.00036	.0529	.00057
%RSD	.09136	.64700	.07252	417.5	.11582
#1	.49860	24.424	.50115	.0248	.49052
#2	.49924	24.649	.50064	-.0501	.48971
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50844**	**.50393**	**23.768**	**25.377**	**.50990**
Stddev	.00136	.00326	.096	.039	.00116
%RSD	.26728	.64704	.40232	.15562	.22750
#1	.50940	.50624	23.700	25.349	.51072
#2	.50748	.50163	23.836	25.405	.50908
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:08:16 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.007**	**.50999**	**.49923**	**25.278**	**.49877**
Stddev	.040	.00213	.00036	.033	.00040
%RSD	.16104	.41675	.07301	.12859	.08049
#1	25.035	.51149	.49897	25.255	.49848
#2	24.978	.50849	.49948	25.301	.49905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49584**	**25.375**	**.49983**	**.50174**	**23.865**
Stddev	.00036	.014	.00081	.00096	.176
%RSD	.07179	.05340	.16156	.19137	.73762
#1	.49609	25.365	.49926	.50241	23.741
#2	.49559	25.384	.50041	.50106	23.990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51282**	**.50034**	**.49711**	**.50348**	**.50299**
Stddev	.00064	.00125	.00213	.00090	.00101
%RSD	.12447	.24913	.42747	.17817	.20086
#1	.51237	.49946	.49861	.50285	.50370
#2	.51327	.50123	.49561	.50412	.50227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:08:16 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50787**
Stddev	.00335
%RSD	.66015
#1	.51024
#2	.50550
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3697.4**	**2621.7**	**20515.**	**4134.4**
Stddev	1.7	1.1	59.	19.1
%RSD	.04530	.04342	.28717	.46101
#1	3696.2	2622.5	20473.	4147.9
#2	3698.6	2620.9	20557.	4121.0

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:11:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00277**	**.00139**	**.00094**	**-.00011**
Stddev	.00092	.02180	.00199	.00003	.00004
%RSD	141.24	786.91	143.39	3.0972	31.966
#1	-.00000	.01818	.00280	.00096	-.00014
#2	-.00130	-.01264	-.00002	.00092	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00504**	**-.00005**	**.0233**	**-.00013**
Stddev	.00004	.00422	.00009	.0048	.00012
%RSD	20.634	83.799	182.20	20.58	93.438
#1	-.00023	-.00803	-.00011	.0199	-.00021
#2	-.00017	-.00205	.00001	.0267	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00022**	**-.00797**	**.08678**	**.00084**
Stddev	.00033	.00013	.00223	.05715	.00157
%RSD	101.89	59.095	27.933	65.860	187.92
#1	-.00009	.00013	-.00954	.04636	-.00028
#2	-.00056	.00031	-.00639	.12719	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:11:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00484**	**-.00007**	**-.00031**	**.04019**	**.00015**
Stddev	.00521	.00001	.00001	.00727	.00013
%RSD	107.60	15.812	3.9239	18.095	87.133
#1	-.00852	-.00008	-.00032	.03505	.00024
#2	-.00116	-.00006	-.00030	.04533	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.00408**	**-.00033**	**.00201**	**-.01148**
Stddev	.00006	.00230	.00158	.00104	.00326
%RSD	10.183	56.344	474.73	51.444	28.378
#1	-.00064	-.00570	.00078	.00128	-.00918
#2	-.00056	-.00245	-.00145	.00275	-.01379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00007**	**.00020**	**-.00149**	**-.00004**
Stddev	.00005	.00012	.00007	.00051	.00089
%RSD	15.412	170.47	33.350	34.153	2369.0
#1	.00035	-.00015	.00015	-.00113	-.00067
#2	.00029	.00001	.00024	-.00185	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:11:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00075**
Stddev	.00020
%RSD	26.895
#1	.00061
#2	.00090
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4142.6**	**2683.3**	**21308.**	**4125.1**
Stddev	4.4	4.7	138.	.7
%RSD	.10640	.17439	.64823	.01601
#1	4139.5	2680.0	21406.	4124.6
#2	4145.8	2686.6	21211.	4125.5

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:15:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00588**	**.18188**	**.01610**	**.02111**	**.00198**
Stddev	.00048	.03941	.00169	.00033	.00001
%RSD	8.1229	21.668	10.467	1.5760	.75043
#1	.00554	.20975	.01729	.02087	.00197
#2	.00622	.15401	.01491	.02134	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.49013**	**.00183**	**.0146**	**.00389**
Stddev	.00003	.00048	.00003	.0208	.00021
%RSD	1.3278	.09710	1.4497	142.7	5.2702
#1	.00195	.49047	.00185	-.0001	.00404
#2	.00199	.48980	.00181	.0293	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00421**	**.01077**	**.03734**	**.56718**	**.03061**
Stddev	.00023	.00028	.00001	.03043	.00086
%RSD	5.5693	2.6148	.03815	5.3645	2.8085
#1	.00437	.01057	.03735	.54566	.03000
#2	.00404	.01097	.03733	.58869	.03122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:15:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20118**	**.00296**	**.00964**	**1.0528**	**.00970**
Stddev	.00815	.00003	.00008	.0001	.00033
%RSD	4.0535	1.0066	.85289	.00674	3.4478
#1	.19541	.00298	.00958	1.0528	.00993
#2	.20695	.00294	.00970	1.0527	.00946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00955**	**.19282**	**.02002**	**.02527**	**.48832**
Stddev	.00094	.00103	.00183	.00355	.01117
%RSD	9.8202	.53214	9.1223	14.044	2.2866
#1	.01021	.19209	.01873	.02276	.48043
#2	.00889	.19354	.02131	.02778	.49622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00959**	**.00496**	**.00496**	**.01959**	**.00561**
Stddev	.00031	.00003	.00020	.00004	.00004
%RSD	3.2145	.62726	4.0805	.20683	.79788
#1	.00937	.00494	.00510	.01956	.00558
#2	.00981	.00498	.00482	.01962	.00564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:15:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01115
Stddev	.00048
%RSD	4.3182
#1	.01149
#2	.01081
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4103.0	2682.6	21369.	4122.2
Stddev	1.9	3.9	35.	8.1
%RSD	.04738	.14607	.16145	.19742
#1	4104.4	2679.8	21344.	4128.0
#2	4101.7	2685.3	21393.	4116.4

Sample Name: 480-123261-D-1-B MS Acquired: 8/28/2017 19:19:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04891**	**9.9273**	**.21793**	**.28437**	**.45210**
Stddev	.00022	.0644	.00284	.00008	.00164
%RSD	.45014	.64882	1.3048	.02729	.36271
#1	.04907	9.8817	.21592	.28443	.45094
#2	.04876	9.9728	.21994	.28432	.45326
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20353**	**111.85**	**.20939**	**-.0239**	**.20090**
Stddev	.00137	.62	.00035	.0070	.00012
%RSD	.67130	.55742	.16926	29.37	.06035
#1	.20257	111.41	.20964	-.0289	.20099
#2	.20450	112.29	.20914	-.0189	.20082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20184**	**.25698**	**12.967**	**21.981**	**.20653**
Stddev	.00108	.00220	.042	.046	.00167
%RSD	.53611	.85611	.32586	.21138	.80877
#1	.20108	.25542	12.937	21.948	.20535
#2	.20261	.25853	12.997	22.014	.20771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-B MS Acquired: 8/28/2017 19:19:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.615**	**.66684**	**.20159**	**392.12**	**.20656**
Stddev	.084	.00243	.00033	1.62	.00073
%RSD	.34299	.36401	.16417	.41389	.35509
#1	24.555	.66512	.20183	390.97	.20604
#2	24.674	.66855	.20136	393.26	.20708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21046**	**14.768**	**.20279**	**.20480**	**17.106**
Stddev	.00045	.038	.00084	.00244	.073
%RSD	.21215	.25404	.41249	1.1933	.42937
#1	.21014	14.795	.20220	.20653	17.054
#2	.21077	14.742	.20338	.20308	17.158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19557**	**.83892**	**.20078**	**.19497**	**.20871**
Stddev	.00078	.00512	.00104	.00026	.00108
%RSD	.40074	.61021	.51579	.13245	.51645
#1	.19612	.83530	.20005	.19479	.20795
#2	.19502	.84254	.20152	.19516	.20948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-B MS Acquired: 8/28/2017 19:19:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.23117
Stddev	.00084
%RSD	.36526
#1	.23058
#2	.23177
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3280.8	2487.7	19208.	4079.7
Stddev	3.7	.6	85.	16.5
%RSD	.11150	.02340	.44456	.40506
#1	3283.4	2488.2	19268.	4091.3
#2	3278.2	2487.3	19147.	4068.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.682%	92.923%	90.641%	97.444%
Range				

Sample Name: 480-123261-D-1-C MSD Acquired: 8/28/2017 19:22:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04907**	**10.027**	**.21890**	**.28659**	**.45647**
Stddev	.00079	.013	.00053	.00102	.00183
%RSD	1.6143	.12788	.24391	.35682	.40047
#1	.04963	10.018	.21927	.28587	.45777
#2	.04851	10.036	.21852	.28732	.45518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20430**	**110.60**	**.21042**	**-.0103**	**.20237**
Stddev	.00035	.01	.00065	.0358	.00042
%RSD	.17097	.00698	.30677	347.1	.20798
#1	.20405	110.60	.21087	-.0356	.20267
#2	.20454	110.61	.20996	.0150	.20207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20054**	**.26042**	**12.949**	**21.921**	**.20955**
Stddev	.00151	.00012	.027	.046	.00081
%RSD	.75091	.04663	.20973	.21158	.38701
#1	.20161	.26033	12.969	21.888	.21013
#2	.19948	.26050	12.930	21.953	.20898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-C MSD Acquired: 8/28/2017 19:22:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.633**	**.66446**	**.20274**	**388.34**	**.20774**
Stddev	.064	.00201	.00010	1.43	.00004
%RSD	.25793	.30312	.05007	.36941	.02026
#1	24.678	.66589	.20267	389.36	.20771
#2	24.588	.66304	.20281	387.33	.20777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21553**	**14.822**	**.20675**	**.20972**	**17.043**
Stddev	.00134	.034	.00045	.00105	.031
%RSD	.62273	.22682	.21534	.49997	.18106
#1	.21648	14.846	.20643	.20898	17.021
#2	.21458	14.799	.20706	.21046	17.065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19625**	**.83583**	**.20150**	**.19626**	**.20859**
Stddev	.00054	.00148	.00098	.00176	.00024
%RSD	.27669	.17669	.48478	.89462	.11516
#1	.19663	.83688	.20219	.19502	.20842
#2	.19586	.83479	.20081	.19750	.20876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-1-C MSD Acquired: 8/28/2017 19:22:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.23119
Stddev	.00010
%RSD	.04390
#1	.23126
#2	.23112
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3283.8	2495.4	19255.	4129.1
Stddev	6.9	2.9	26.	6.0
%RSD	.20967	.11770	.13266	.14445
#1	3278.9	2493.3	19237.	4133.3
#2	3288.7	2497.5	19273.	4124.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.754%	93.209%	90.863%	98.624%
Range				

Sample Name: 480-123261-D-2-A Acquired: 8/28/2017 19:26:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.11320**	**.00338**	**.08222**	**.24798**
Stddev	.00090	.00825	.00021	.00039	.00037
%RSD	169.09	7.2915	6.1589	.47733	.15024
#1	.00117	.10736	.00324	.08250	.24825
#2	-.00010	.11904	.00353	.08195	.24772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**102.89**	**.00028**	**.0070**	**-.00005**
Stddev	.00003	.11	.00000	.0136	.00004
%RSD	14.447	.10247	1.5406	194.6	81.620
#1	-.00016	102.82	.00028	.0166	-.00002
#2	-.00019	102.97	.00029	-.0026	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**.04883**	**1.6824**	**12.126**	**.00290**
Stddev	.00034	.00010	.0004	.045	.00119
%RSD	34982.	.20730	.02132	.36868	40.953
#1	.00024	.04876	1.6826	12.158	.00206
#2	-.00024	.04890	1.6821	12.095	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-2-A Acquired: 8/28/2017 19:26:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.299**	**.19456**	**.00068**	**394.83**	**.00365**
Stddev	.045	.00069	.00010	.29	.00005
%RSD	.29533	.35609	15.093	.07417	1.3657
#1	15.331	.19505	.00075	394.62	.00368
#2	15.267	.19407	.00061	395.04	.00361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00542**	**31.620**	**.00045**	**.00328**	**7.0147**
Stddev	.00001	.052	.00166	.00324	.0379
%RSD	.15455	.16437	371.10	98.958	.53972
#1	.00543	31.656	-.00073	.00557	6.9879
#2	.00542	31.583	.00162	.00098	7.0415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.65614**	**.00061**	**-.00125**	**-.00034**
Stddev	.00030	.00130	.00052	.00188	.00017
%RSD	92.383	.19808	86.469	150.21	50.802
#1	-.00054	.65522	.00024	-.00258	-.00022
#2	-.00011	.65706	.00098	.00008	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-D-2-A Acquired: 8/28/2017 19:26:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.08562
Stddev	.00026
%RSD	.29806
#1	.08544
#2	.08580
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3321.3	2481.3	19256.	4091.7
Stddev	1.5	.6	64.	5.3
%RSD	.04444	.02373	.33101	.12975
#1	3320.2	2480.9	19211.	4088.0
#2	3322.3	2481.7	19301.	4095.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.664%	92.681%	90.867%	97.732%
Range				

Sample Name: 480-123261-C-3-A Acquired: 8/28/2017 19:29:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.06938**	**.00377**	**.08211**	**.26198**
Stddev	.00008	.03447	.00327	.00002	.00113
%RSD	49.139	49.684	86.965	.02401	.42994
#1	.00023	.04501	.00145	.08210	.26119
#2	.00011	.09376	.00608	.08213	.26278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**104.86**	**.00022**	**-.0057**	**-.00034**
Stddev	.00003	.03	.00001	.0133	.00009
%RSD	24.026	.03163	5.9105	235.1	26.703
#1	-.00011	104.84	.00023	.0037	-.00027
#2	-.00016	104.88	.00022	-.0151	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.05090**	**2.3523**	**12.138**	**.00248**
Stddev	.00143	.00053	.0057	.015	.00072
%RSD	337.67	1.0474	.24208	.12007	28.916
#1	-.00143	.05052	2.3564	12.127	.00299
#2	.00059	.05127	2.3483	12.148	.00198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-3-A Acquired: 8/28/2017 19:29:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.218**	**.42317**	**.00049**	**393.50**	**.00042**
Stddev	.058	.00222	.00008	.07	.00011
%RSD	.37963	.52387	15.258	.01873	25.163
#1	15.177	.42160	.00055	393.45	.00034
#2	15.259	.42473	.00044	393.55	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00155**	**4.4628**	**-.00154**	**-.00118**	**7.1410**
Stddev	.00023	.0019	.00078	.00224	.0470
%RSD	14.826	.04370	50.495	188.86	.65835
#1	.00172	4.4614	-.00099	.00040	7.1078
#2	.00139	4.4642	-.00209	-.00277	7.1743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.65574**	**.00017**	**-.00048**	**.00004**
Stddev	.00081	.00078	.00031	.00110	.00004
%RSD	188.19	.11917	177.99	230.35	108.22
#1	-.00100	.65629	-.00004	-.00125	.00007
#2	.00014	.65519	.00039	.00030	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-3-A Acquired: 8/28/2017 19:29:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03279
Stddev	.00025
%RSD	.75261
#1	.03261
#2	.03296
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3302.2	2472.3	19139.	4097.8
Stddev	4.5	.8	39.	11.5
%RSD	.13685	.03347	.20618	.27946
#1	3299.0	2471.8	19167.	4105.9
#2	3305.4	2472.9	19111.	4089.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.202%	92.348%	90.316%	97.879%
Range				

Sample Name: 480-123261-C-4-A Acquired: 8/28/2017 19:33:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.16468**	**.00269**	**.07975**	**.24807**
Stddev	.00097	.02375	.00001	.00096	.00060
%RSD	121.40	14.420	.23092	1.2025	.24178
#1	.00011	.18147	.00269	.07907	.24765
#2	.00149	.14789	.00268	.08043	.24850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**101.12**	**.00029**	**.0241**	**-.00020**
Stddev	.00005	.29	.00014	.0212	.00014
%RSD	23.985	.28748	47.423	87.93	69.417
#1	-.00023	101.33	.00039	.0091	-.00010
#2	-.00017	100.91	.00019	.0390	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.05227**	**2.4455**	**11.787**	**.00200**
Stddev	.00066	.00097	.0071	.143	.00028
%RSD	332.85	1.8566	.29128	1.2165	13.929
#1	-.00066	.05158	2.4505	11.889	.00180
#2	.00027	.05295	2.4405	11.686	.00219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-4-A Acquired: 8/28/2017 19:33:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.851**	**.16852**	**.00051**	**383.42**	**.00115**
Stddev	.041	.00044	.00021	2.49	.00024
%RSD	.27277	.26084	41.836	.64841	20.943
#1	14.822	.16821	.00066	385.18	.00132
#2	14.880	.16883	.00036	381.66	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**4.0965**	**-.00064**	**-.00087**	**6.9380**
Stddev	.00085	.0037	.00141	.00336	.0061
%RSD	55.438	.09017	219.04	387.27	.08748
#1	.00212	4.0938	-.00164	-.00324	6.9423
#2	.00093	4.0991	.00035	.00151	6.9337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.64577**	**.00026**	**-.00094**	**-.00006**
Stddev	.00020	.00470	.00003	.00072	.00023
%RSD	95.158	.72771	11.942	75.928	398.12
#1	.00007	.64910	.00029	-.00044	-.00022
#2	.00036	.64245	.00024	-.00145	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123261-C-4-A Acquired: 8/28/2017 19:33:23 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03728
Stddev	.00000
%RSD	.00213
#1	.03728
#2	.03728
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3311.7	2477.4	19319.	4087.3
Stddev	6.1	5.2	101.	4.5
%RSD	.18383	.20913	.52205	.11082
#1	3316.0	2481.1	19390.	4084.1
#2	3307.4	2473.8	19248.	4090.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.431%	92.538%	91.165%	97.626%
Range				

Sample Name: 190-14287-C-1-A Acquired: 8/28/2017 19:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.01938**	**.00165**	**.23505**	**.22252**
Stddev	.00010	.00836	.00138	.00007	.00035
%RSD	43.134	43.140	83.670	.03129	.15774
#1	.00016	.01347	.00067	.23500	.22277
#2	.00029	.02529	.00263	.23510	.22228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**151.72**	**.00010**	**.0032**	**-.00031**
Stddev	.00006	.50	.00026	.0485	.00009
%RSD	28.278	.33047	253.85	1522.	29.695
#1	-.00027	151.37	.00028	-.0311	-.00024
#2	-.00018	152.07	-.00008	.0375	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.00068**	**1.0843**	**2.1703**	**.00404**
Stddev	.00001	.00067	.0108	.0068	.00038
%RSD	2.4582	98.136	.99721	.31492	9.5158
#1	-.00056	.00116	1.0766	2.1655	.00431
#2	-.00058	.00021	1.0919	2.1751	.00377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-C-1-A Acquired: 8/28/2017 19:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**39.648**	**.05713**	**.00183**	**105.68**	**.00119**
Stddev	.121	.00021	.00005	.71	.00057
%RSD	.30541	.36559	2.5364	.67302	47.768
#1	39.734	.05698	.00179	105.18	.00159
#2	39.562	.05728	.00186	106.19	.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**20.307**	**-.00017**	**.00055**	**6.1503**
Stddev	.00156	.021	.00057	.00384	.0193
%RSD	595.58	.10399	335.30	697.38	.31310
#1	-.00137	20.322	.00023	-.00216	6.1367
#2	.00084	20.292	-.00057	.00327	6.1639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.25371**	**-.00019**	**-.00131**	**-.00013**
Stddev	.00033	.00062	.00061	.00141	.00013
%RSD	1486.8	.24423	318.48	107.41	96.200
#1	-.00026	.25327	-.00062	-.00031	-.00022
#2	.00021	.25415	.00024	-.00230	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-C-1-A Acquired: 8/28/2017 19:37:02 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.7467**
Stddev	.0020
%RSD	.11533
#1	1.7481
#2	1.7452
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3482.0**	**2504.7**	**19736.**	**4123.5**
Stddev	5.7	5.0	8.	34.6
%RSD	.16504	.19863	.03822	.83918
#1	3486.1	2508.2	19741.	4148.0
#2	3477.9	2501.2	19730.	4099.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.568%	93.557%	93.131%	98.492%
Range				

Sample Name: 190-14287-P-2-A Acquired: 8/28/2017 19:40:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.02096**	**.00115**	**.07608**	**.03143**
Stddev	.00088	.00505	.00046	.00030	.00005
%RSD	322.53	24.101	40.488	.39527	.14839
#1	.00090	.01739	.00148	.07629	.03139
#2	-.00035	.02453	.00082	.07587	.03146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**135.72**	**-.00001**	**.0017**	**-.00022**
Stddev	.00007	.04	.00002	.0113	.00015
%RSD	59.827	.02742	395.57	674.1	67.213
#1	-.00017	135.69	.00001	.0096	-.00033
#2	-.00007	135.75	-.00002	-.0063	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00126**	**.03598**	**4.8104**	**-.00231**
Stddev	.00008	.00003	.00164	.0440	.00208
%RSD	100.06	2.3793	4.5539	.91467	90.066
#1	-.00014	.00128	.03714	4.7793	-.00084
#2	-.00002	.00124	.03482	4.8415	-.00378
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-P-2-A Acquired: 8/28/2017 19:40:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.450**	**.03556**	**-.00005**	**168.99**	**.00058**
Stddev	.007	.00012	.00004	1.13	.00010
%RSD	.04604	.34607	82.825	.66658	16.618
#1	14.445	.03548	-.00008	168.20	.00051
#2	14.455	.03565	-.00002	169.79	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**4.6410**	**-.00204**	**.00317**	**4.8856**
Stddev	.00023	.0018	.00007	.00120	.0194
%RSD	28.338	.03898	3.4813	37.922	.39701
#1	-.00097	4.6397	-.00199	.00232	4.8718
#2	-.00064	4.6423	-.00209	.00402	4.8993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**1.3513**	**.00018**	**-.00062**	**.00034**
Stddev	.00014	.0049	.00014	.00152	.00049
%RSD	132.83	.36134	76.699	244.87	142.01
#1	.00020	1.3479	.00008	-.00170	-.00000
#2	.00001	1.3548	.00028	.00045	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-P-2-A Acquired: 8/28/2017 19:40:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00410**
Stddev	.00042
%RSD	10.366
#1	.00380
#2	.00440
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3454.0**	**2503.7**	**19637.**	**4117.8**
Stddev	7.3	5.6	70.	12.6
%RSD	.21002	.22387	.35606	.30709
#1	3459.1	2507.7	19687.	4126.7
#2	3448.8	2499.8	19588.	4108.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.887%	93.521%	92.668%	98.354%
Range				

Sample Name: 190-14287-P-3-A Acquired: 8/28/2017 19:44:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.01254**	**.01362**	**.29836**	**.25558**
Stddev	.00045	.00979	.00013	.00232	.00158
%RSD	462.17	78.083	.92987	.77797	.61789
#1	-.00022	.01946	.01353	.29672	.25447
#2	.00041	.00561	.01371	.30001	.25670
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**139.23**	**.00008**	**-.0000**	**-.00032**
Stddev	.00006	.30	.00016	.0163	.00028
%RSD	31.577	.21240	211.22	104400.	89.372
#1	-.00015	139.44	-.00004	.0115	-.00051
#2	-.00023	139.02	.00019	-.0116	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00083**	**2.3775**	**2.4461**	**.00087**
Stddev	.00047	.00053	.0163	.0257	.00057
%RSD	111.05	64.232	.68460	1.0514	65.286
#1	-.00009	.00045	2.3890	2.4279	.00128
#2	-.00075	.00120	2.3660	2.4643	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-P-3-A Acquired: 8/28/2017 19:44:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.415**	**.22683**	**.00152**	**199.74**	**.00165**
Stddev	.178	.00091	.00029	.35	.00007
%RSD	.58434	.39898	19.055	.17394	4.0074
#1	30.289	.22619	.00173	199.49	.00169
#2	30.540	.22747	.00132	199.98	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**21.824**	**-.00131**	**-.00005**	**7.5336**
Stddev	.00156	.035	.00125	.00002	.0256
%RSD	366.72	.16245	95.516	37.219	.33948
#1	.00152	21.849	-.00219	-.00006	7.5517
#2	-.00068	21.799	-.00042	-.00004	7.5156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.27043**	**.00004**	**-.00144**	**-.00048**
Stddev	.00078	.00066	.00042	.00017	.00034
%RSD	953.67	.24410	968.88	12.080	69.869
#1	.00063	.27089	.00034	-.00156	-.00024
#2	-.00047	.26996	-.00025	-.00132	-.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-P-3-A Acquired: 8/28/2017 19:44:10 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1660**
Stddev	.0017
%RSD	.14790
#1	1.1648
#2	1.1672
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3413.6**	**2483.9**	**19528.**	**4078.9**
Stddev	2.1	.8	53.	13.9
%RSD	.06289	.03254	.27281	.34167
#1	3415.1	2484.5	19565.	4069.1
#2	3412.1	2483.3	19490.	4088.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.906%	92.779%	92.151%	97.427%
Range				

Sample Name: 190-14276-D-1-A Acquired: 8/28/2017 19:47:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.01407**	**.00074**	**.09493**	**.02462**
Stddev	.00011	.00376	.00316	.00005	.00005
%RSD	31.722	26.763	424.06	.05647	.19834
#1	-.00043	.01673	-.00149	.09489	.02466
#2	-.00027	.01140	.00298	.09497	.02459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**162.01**	**.00030**	**.0000**	**.00370**
Stddev	.00004	1.47	.00012	.0011	.00003
%RSD	17.150	.90635	39.415	16540.	.74499
#1	-.00029	160.97	.00022	-.0008	.00368
#2	-.00022	163.05	.00038	.0008	.00372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.00061**	**.03827**	**1.0004**	**-.00498**
Stddev	.00010	.00024	.00142	.0373	.00102
%RSD	20.029	39.969	3.7021	3.7245	20.482
#1	-.00059	.00044	.03727	1.0267	-.00426
#2	-.00044	.00078	.03927	.97401	-.00571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-1-A Acquired: 8/28/2017 19:47:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.345**	**.24343**	**.00003**	**27.664**	**.00387**
Stddev	.134	.00109	.00003	.177	.00043
%RSD	.41347	.44903	112.19	.63846	11.093
#1	32.250	.24266	.00005	27.539	.00418
#2	32.440	.24420	.00001	27.789	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**24.249**	**-.00186**	**.00211**	**5.8058**
Stddev	.00039	.013	.00131	.00169	.0553
%RSD	117.50	.05549	70.323	79.888	.95227
#1	.00006	24.240	-.00279	.00330	5.7667
#2	.00061	24.259	-.00094	.00092	5.8449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.20298**	**-.00049**	**-.00046**	**-.00004**
Stddev	.00036	.00168	.00001	.00090	.00046
%RSD	305.01	.82865	1.4408	194.91	1271.5
#1	.00037	.20179	-.00049	-.00110	-.00036
#2	-.00014	.20417	-.00048	.00018	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-1-A Acquired: 8/28/2017 19:47:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.62188**
Stddev	.00773
%RSD	1.2432
#1	.61641
#2	.62735
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3587.6**	**2540.9**	**20137.**	**4134.1**
Stddev	5.9	4.4	64.	28.7
%RSD	.16345	.17310	.31604	.69533
#1	3591.8	2544.1	20182.	4154.4
#2	3583.5	2537.8	20092.	4113.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.133%	94.911%	95.025%	98.745%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:51:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50069**	**23.789**	**.50054**	**.50584**	**.49158**
Stddev	.00110	.056	.00046	.00004	.00302
%RSD	.22066	.23610	.09109	.00819	.61381
#1	.50147	23.829	.50087	.50587	.48944
#2	.49991	23.750	.50022	.50581	.49371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50063**	**24.488**	**.50004**	**.0170**	**.49098**
Stddev	.00032	.013	.00012	.0189	.00038
%RSD	.06400	.05400	.02386	111.1	.07763
#1	.50040	24.497	.49995	.0304	.49125
#2	.50085	24.479	.50012	.0036	.49071
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50317**	**.50553**	**23.702**	**25.494**	**.50940**
Stddev	.00225	.00009	.023	.034	.00074
%RSD	.44733	.01879	.09895	.13524	.14465
#1	.50476	.50546	23.718	25.518	.50992
#2	.50158	.50559	23.685	25.469	.50887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:51:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.046**	**.51026**	**.49588**	**25.257**	**.49901**
Stddev	.016	.00042	.00032	.019	.00074
%RSD	.06326	.08248	.06459	.07338	.14773
#1	25.035	.51056	.49610	25.271	.49848
#2	25.057	.50996	.49565	25.244	.49953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49386**	**25.297**	**.49779**	**.49889**	**23.751**
Stddev	.00160	.009	.00064	.00142	.016
%RSD	.32390	.03439	.12937	.28402	.06549
#1	.49499	25.291	.49734	.49989	23.762
#2	.49273	25.303	.49825	.49789	23.740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51230**	**.49735**	**.49526**	**.50091**	**.49972**
Stddev	.00110	.00099	.00146	.00047	.00096
%RSD	.21388	.19884	.29471	.09474	.19164
#1	.51153	.49805	.49630	.50125	.50040
#2	.51308	.49665	.49423	.50058	.49905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 19:51:17 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50510
Stddev	.00081
%RSD	.15987
#1	.50567
#2	.50452
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3694.0	2623.5	20532.	4093.7
Stddev	6.0	4.8	6.	8.3
%RSD	.16316	.18127	.02828	.20356
#1	3689.7	2620.1	20536.	4099.6
#2	3698.3	2626.9	20528.	4087.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:54:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00509**	**.00043**	**.00045**	**-.00012**
Stddev	.00024	.00642	.00252	.00011	.00001
%RSD	883.33	126.03	589.58	24.757	5.9421
#1	-.00019	-.00055	-.00135	.00053	-.00011
#2	.00014	-.00963	.00221	.00037	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00163**	**-.00013**	**.0042**	**-.00007**
Stddev	.00005	.00049	.00004	.0038	.00007
%RSD	33.158	29.793	34.390	90.33	98.788
#1	-.00019	-.00129	-.00010	.0015	-.00012
#2	-.00012	-.00198	-.00016	.0069	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00007**	**-.00533**	**.00378**	**-.00101**
Stddev	.00017	.00019	.00173	.00836	.00061
%RSD	123.23	260.34	32.480	220.87	60.127
#1	-.00026	-.00021	-.00411	.00969	-.00144
#2	-.00002	.00006	-.00656	-.00213	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:54:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00603**	**-.00006**	**-.00027**	**.04176**	**-.00022**
Stddev	.00091	.00009	.00007	.00098	.00042
%RSD	15.015	140.56	27.264	2.3456	188.56
#1	-.00667	-.00000	-.00032	.04106	-.00052
#2	-.00539	-.00012	-.00022	.04245	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00094**	**-.00604**	**-.00046**	**.00364**	**-.01238**
Stddev	.00001	.00198	.00050	.00191	.00584
%RSD	1.4852	32.739	109.02	52.475	47.169
#1	-.00093	-.00464	-.00011	.00500	-.00825
#2	-.00095	-.00744	-.00082	.00229	-.01651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00001**	**.00031**	**.00018**	**.00029**
Stddev	.00012	.00007	.00016	.00148	.00025
%RSD	64.738	512.73	50.390	813.94	85.007
#1	-.00027	-.00007	.00020	-.00087	.00012
#2	-.00010	.00004	.00042	.00123	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 19:54:44 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00053**
Stddev	.00008
%RSD	15.465
#1	.00059
#2	.00047
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4139.3**	**2681.3**	**21299.**	**4113.0**
Stddev	7.5	6.8	53.	10.9
%RSD	.18156	.25504	.24750	.26605
#1	4134.0	2676.4	21262.	4105.2
#2	4144.6	2686.1	21336.	4120.7

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:58:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00722**	**.18173**	**.01477**	**.02075**	**.00198**
Stddev	.00015	.00322	.00263	.00028	.00003
%RSD	2.0250	1.7735	17.771	1.3287	1.3349
#1	.00732	.18401	.01663	.02095	.00200
#2	.00712	.17945	.01292	.02056	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**.48980**	**.00187**	**-.0034**	**.00373**
Stddev	.00004	.00104	.00003	.0053	.00018
%RSD	1.9733	.21272	1.6196	155.8	4.6985
#1	.00192	.49054	.00189	.0003	.00385
#2	.00187	.48907	.00185	-.0072	.00360
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00427**	**.01019**	**.04152**	**.52071**	**.03072**
Stddev	.00008	.00015	.00341	.02376	.00050
%RSD	1.7816	1.4370	8.2134	4.5625	1.6206
#1	.00421	.01029	.04393	.50391	.03036
#2	.00432	.01009	.03911	.53750	.03107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:58:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19867**	**.00301**	**.00960**	**1.0615**	**.00968**
Stddev	.00657	.00000	.00021	.0055	.00066
%RSD	3.3087	.12629	2.1358	.52112	6.8040
#1	.20332	.00302	.00975	1.0654	.01014
#2	.19402	.00301	.00946	1.0576	.00921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01022**	**.19433**	**.01907**	**.02584**	**.49408**
Stddev	.00091	.00041	.00031	.00132	.00137
%RSD	8.8762	.21225	1.6215	5.1009	.27720
#1	.00958	.19462	.01929	.02491	.49311
#2	.01087	.19404	.01885	.02678	.49505
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00898**	**.00498**	**.00463**	**.01890**	**.00492**
Stddev	.00002	.00006	.00010	.00072	.00044
%RSD	.17796	1.1419	2.0526	3.7972	8.9228
#1	.00899	.00502	.00456	.01941	.00523
#2	.00897	.00494	.00470	.01839	.00461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 19:58:23 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01122
Stddev	.00002
%RSD	.19012
#1	.01124
#2	.01121
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4117.7	2681.4	21385.	4120.1
Stddev	3.2	1.8	41.	9.1
%RSD	.07822	.06808	.19043	.22171
#1	4115.4	2682.7	21413.	4126.6
#2	4120.0	2680.1	21356.	4113.7

Sample Name: 190-14276-D-2-A Acquired: 8/28/2017 20:02:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00418**	**.00299**	**.09388**	**.02442**
Stddev	.00078	.01125	.00300	.00052	.00000
%RSD	1624.7	269.43	100.40	.55192	.00874
#1	-.00060	.00378	.00087	.09424	.02442
#2	.00050	-.01213	.00511	.09351	.02442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**160.07**	**.00024**	**-.0114**	**.00370**
Stddev	.00000	.41	.00006	.0200	.00007
%RSD	1.0423	.25349	24.093	175.8	1.8917
#1	-.00012	159.78	.00028	.0028	.00375
#2	-.00012	160.35	.00020	-.0255	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00296**	**.04101**	**.96405**	**-.00296**
Stddev	.00077	.00098	.00030	.05320	.00206
%RSD	271.09	33.017	.73277	5.5186	69.495
#1	.00026	.00366	.04079	.92643	-.00151
#2	-.00083	.00227	.04122	1.0017	-.00441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-2-A Acquired: 8/28/2017 20:02:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.063**	**.24196**	**.00015**	**27.335**	**.00394**
Stddev	.020	.00032	.00018	.016	.00012
%RSD	.06117	.13021	116.28	.05772	3.0778
#1	32.049	.24219	.00003	27.324	.00403
#2	32.077	.24174	.00028	27.346	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**24.056**	**.00061**	**.00089**	**5.7752**
Stddev	.00116	.046	.00021	.00306	.0293
%RSD	642.00	.19056	34.343	344.08	.50752
#1	.00064	24.088	.00076	-.00128	5.7545
#2	-.00100	24.023	.00046	.00306	5.7959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.20182**	**-.00025**	**-.00161**	**-.00021**
Stddev	.00044	.00083	.00037	.00060	.00008
%RSD	1328.4	.40932	145.85	37.312	36.988
#1	-.00028	.20124	.00001	-.00119	-.00016
#2	.00034	.20240	-.00051	-.00204	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-2-A Acquired: 8/28/2017 20:02:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.65686
Stddev	.00246
%RSD	.37425
#1	.65859
#2	.65512
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3587.5	2539.2	20163.	4163.6
Stddev	4.1	.3	52.	22.5
%RSD	.11344	.00997	.26004	.54002
#1	3590.3	2539.0	20126.	4179.5
#2	3584.6	2539.4	20200.	4147.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.129%	94.846%	95.149%	99.449%
Range				

Sample Name: 190-14276-D-3-A Acquired: 8/28/2017 20:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.02868**	**.00751**	**1.2897**	**.07318**
Stddev	.00014	.00896	.00182	.0016	.00038
%RSD	27.505	31.240	24.232	.12659	.51612
#1	.00062	.03501	.00622	1.2909	.07291
#2	.00042	.02234	.00880	1.2886	.07344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**90.802**	**.00001**	**-.0103**	**.00020**
Stddev	.00003	.210	.00004	.0128	.00019
%RSD	20.192	.23083	758.16	124.1	93.406
#1	-.00012	90.654	.00004	-.0013	.00033
#2	-.00017	90.950	-.00002	-.0194	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00157**	**2.6366**	**8.8454**	**.00193**
Stddev	.00006	.00016	.0027	.0057	.00079
%RSD	52.890	10.297	.10447	.06413	40.993
#1	-.00007	.00146	2.6386	8.8495	.00137
#2	-.00015	.00169	2.6347	8.8414	.00248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-3-A Acquired: 8/28/2017 20:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.980**	**.71123**	**.01221**	**178.97**	**.00474**
Stddev	.154	.00349	.00020	.58	.00002
%RSD	.61498	.49127	1.6419	.32541	.37346
#1	24.871	.70876	.01206	178.56	.00473
#2	25.089	.71370	.01235	179.39	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**34.330**	**.00128**	**.00088**	**7.5661**
Stddev	.00173	.014	.00044	.00224	.0223
%RSD	115.64	.04065	34.090	253.71	.29537
#1	.00027	34.320	.00158	.00247	7.5819
#2	.00272	34.340	.00097	-.00070	7.5503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**1.1333**	**.00014**	**-.00050**	**.00001**
Stddev	.00071	.0032	.00037	.00085	.00008
%RSD	402.39	.27804	262.02	169.93	606.13
#1	.00068	1.1311	.00040	-.00110	.00007
#2	-.00033	1.1356	-.00012	.00010	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-3-A Acquired: 8/28/2017 20:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.09862
Stddev	.00002
%RSD	.02337
#1	.09861
#2	.09864
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3481.1	2517.1	19804.	4119.6
Stddev	3.5	1.5	24.	9.5
%RSD	.10090	.06019	.12289	.23002
#1	3483.6	2516.0	19821.	4126.3
#2	3478.6	2518.1	19786.	4112.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.546%	94.018%	93.452%	98.398%
Range				

Sample Name: 190-14276-D-4-A Acquired: 8/28/2017 20:09:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00279**	**.02760**	**.09997**	**.15803**
Stddev	.00060	.01691	.00031	.00058	.00041
%RSD	107.12	606.60	1.1199	.57750	.25975
#1	.00014	.01475	.02782	.10038	.15832
#2	.00098	-.00917	.02738	.09956	.15774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**69.785**	**.00010**	**.0260**	**-.00019**
Stddev	.00001	.012	.00006	.0088	.00018
%RSD	3.0667	.01785	61.197	34.03	92.871
#1	-.00022	69.794	.00014	.0322	-.00007
#2	-.00021	69.776	.00006	.0197	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.00222**	**1.0731**	**1.5454**	**.01083**
Stddev	.00045	.00022	.0016	.0423	.00213
%RSD	64.665	9.8671	.14820	2.7403	19.627
#1	.00038	.00206	1.0742	1.5753	.00933
#2	.00101	.00237	1.0719	1.5154	.01233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-4-A Acquired: 8/28/2017 20:09:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.651**	**.01593**	**.01814**	**17.522**	**.00016**
Stddev	.093	.00005	.00000	.006	.00012
%RSD	.31246	.30773	.00279	.03581	75.064
#1	29.717	.01596	.01814	17.517	.00007
#2	29.586	.01589	.01814	17.526	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**7.3528**	**-.00132**	**.00160**	**8.4305**
Stddev	.00086	.0045	.00128	.00209	.0031
%RSD	92.608	.06088	97.572	130.45	.03642
#1	.00032	7.3560	-.00222	.00307	8.4327
#2	.00154	7.3496	-.00041	.00012	8.4283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.54524**	**-.00042**	**-.00069**	**.00022**
Stddev	.00040	.00080	.00006	.00014	.00011
%RSD	150.71	.14741	13.250	20.786	51.626
#1	-.00054	.54581	-.00038	-.00079	.00030
#2	.00002	.54468	-.00046	-.00059	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-4-A Acquired: 8/28/2017 20:09:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00478**
Stddev	.00069
%RSD	14.397
#1	.00429
#2	.00527
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3742.4**	**2600.4**	**20591.**	**4155.5**
Stddev	1.4	6.1	7.	12.7
%RSD	.03716	.23429	.03558	.30564
#1	3741.4	2596.0	20586.	4146.5
#2	3743.4	2604.7	20596.	4164.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.892%	97.129%	97.167%	99.255%
Range				

Sample Name: 190-14276-D-5-A Acquired: 8/28/2017 20:12:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.01003**	**.00196**	**.14068**	**.03404**
Stddev	.00031	.00042	.00135	.00004	.00005
%RSD	216.96	4.1819	68.837	.03106	.13314
#1	.00036	.00973	.00291	.14065	.03407
#2	-.00008	.01033	.00100	.14071	.03400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**111.37**	**.00012**	**.0102**	**-.00001**
Stddev	.00002	.54	.00002	.0133	.00006
%RSD	13.378	.48355	16.249	130.7	533.13
#1	-.00015	111.75	.00013	.0196	.00003
#2	-.00012	110.99	.00011	.0008	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00416**	**.02025**	**3.8300**	**-.00105**
Stddev	.00021	.00070	.00136	.0102	.00092
%RSD	73.109	16.806	6.7171	.26642	87.776
#1	-.00043	.00466	.02121	3.8228	-.00040
#2	-.00014	.00367	.01929	3.8372	-.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-5-A Acquired: 8/28/2017 20:12:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.882**	**.07928**	**-.00003**	**54.300**	**.00215**
Stddev	.027	.00015	.00013	.368	.00004
%RSD	.13448	.18422	408.93	.67836	1.9279
#1	19.901	.07917	.00006	54.561	.00218
#2	19.863	.07938	-.00013	54.040	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**26.517**	**.00043**	**.00341**	**4.2476**
Stddev	.00053	.014	.00031	.00213	.0247
%RSD	77.144	.05146	73.340	62.488	.58150
#1	-.00105	26.527	.00065	.00190	4.2651
#2	-.00031	26.508	.00021	.00491	4.2302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**1.6146**	**-.00039**	**-.00089**	**.00016**
Stddev	.00025	.0053	.00013	.00090	.00011
%RSD	138.87	.32616	33.750	100.40	69.731
#1	.00000	1.6183	-.00029	-.00153	.00008
#2	.00035	1.6109	-.00048	-.00026	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-5-A Acquired: 8/28/2017 20:12:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00361
Stddev	.00045
%RSD	12.545
#1	.00393
#2	.00329
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3623.3	2543.9	20216.	4139.7
Stddev	1.2	2.2	12.	11.5
%RSD	.03239	.08594	.06081	.27726
#1	3624.1	2545.5	20224.	4131.6
#2	3622.4	2542.4	20207.	4147.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.999%	95.022%	95.397%	98.879%
Range				

Sample Name: 190-14276-D-6-A Acquired: 8/28/2017 20:16:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.04928**	**-.00035**	**.12880**	**.23694**
Stddev	.00036	.00215	.00038	.00076	.00005
%RSD	167.37	4.3653	108.92	.59116	.01932
#1	-.00004	.04776	-.00062	.12826	.23697
#2	.00047	.05080	-.00008	.12933	.23690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**111.04**	**.00015**	**.0258**	**-.00015**
Stddev	.00004	.01	.00006	.0169	.00004
%RSD	17.028	.01192	44.213	65.78	29.408
#1	-.00019	111.05	.00010	.0138	-.00012
#2	-.00024	111.03	.00019	.0377	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.00149**	**2.5117**	**2.1380**	**.00608**
Stddev	.00004	.00049	.0003	.0206	.00015
%RSD	21.214	32.810	.01251	.96340	2.4089
#1	-.00022	.00115	2.5119	2.1525	.00619
#2	-.00016	.00184	2.5115	2.1234	.00598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-6-A Acquired: 8/28/2017 20:16:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.824**	**.06244**	**.00218**	**90.512**	**.00053**
Stddev	.036	.00009	.00004	.019	.00027
%RSD	.09646	.14973	1.7066	.02117	50.028
#1	36.799	.06237	.00221	90.526	.00034
#2	36.849	.06250	.00216	90.498	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**6.9703**	**-.00084**	**-.00005**	**6.7766**
Stddev	.00015	.0121	.00184	.00214	.0192
%RSD	10.956	.17347	219.84	4422.1	.28256
#1	.00127	6.9788	-.00214	-.00156	6.7631
#2	.00149	6.9617	.00047	.00146	6.7901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.61774**	**-.00014**	**-.00085**	**-.00000**
Stddev	.00046	.00092	.00023	.00003	.00016
%RSD	383.47	.14815	162.48	3.2342	5123.1
#1	.00020	.61710	-.00031	-.00083	.00011
#2	-.00044	.61839	.00002	-.00087	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14276-D-6-A Acquired: 8/28/2017 20:16:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.53843**
Stddev	.00264
%RSD	.49088
#1	.54030
#2	.53656
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3539.3**	**2525.9**	**19967.**	**4109.6**
Stddev	3.0	.7	19.	3.6
%RSD	.08519	.02606	.09441	.08729
#1	3537.1	2525.5	19953.	4112.2
#2	3541.4	2526.4	19980.	4107.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.958%	94.350%	94.222%	98.161%
Range				

Sample Name: 190-14295-D-1-A Acquired: 8/28/2017 20:19:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00607**	**-.00086**	**.03956**	**.14628**
Stddev	.00022	.01552	.00038	.00014	.00042
%RSD	269.78	255.74	44.598	.34252	.28962
#1	-.00024	-.01704	-.00059	.03966	.14658
#2	.00007	.00491	-.00113	.03946	.14598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**84.800**	**.00017**	**.0119**	**-.00031**
Stddev	.00002	.288	.00001	.0146	.00014
%RSD	7.2600	.33962	5.0968	122.6	45.211
#1	-.00022	84.596	.00016	.0016	-.00041
#2	-.00020	85.003	.00018	.0222	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.00189**	**.88017**	**1.2004**	**.00548**
Stddev	.00056	.00015	.00578	.0143	.00199
%RSD	88.679	8.0926	.65667	1.1917	36.247
#1	-.00104	.00178	.87609	1.1903	.00407
#2	-.00024	.00200	.88426	1.2105	.00688
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-1-A Acquired: 8/28/2017 20:19:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.869**	**.01953**	**.00367**	**12.284**	**.00049**
Stddev	.081	.00004	.00018	.062	.00002
%RSD	.29208	.21158	5.0323	.50730	4.9799
#1	27.927	.01951	.00380	12.240	.00051
#2	27.812	.01956	.00354	12.328	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**7.4939**	**-.00093**	**.00039**	**6.9314**
Stddev	.00184	.0085	.00041	.00329	.0625
%RSD	720.00	.11391	44.174	835.02	.90180
#1	-.00155	7.5000	-.00121	.00272	6.8872
#2	.00104	7.4879	-.00064	-.00193	6.9756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.30261**	**-.00034**	**-.00041**	**-.00009**
Stddev	.00004	.00125	.00011	.00094	.00031
%RSD	7.8314	.41416	31.348	229.19	356.80
#1	-.00051	.30173	-.00026	.00025	.00013
#2	-.00057	.30350	-.00041	-.00107	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-1-A Acquired: 8/28/2017 20:19:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.09586
Stddev	.00121
%RSD	1.2654
#1	.09501
#2	.09672
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3728.4	2590.2	20546.	4154.0
Stddev	2.5	3.5	135.	8.8
%RSD	.06682	.13336	.65632	.21149
#1	3726.6	2587.8	20451.	4160.2
#2	3730.2	2592.7	20642.	4147.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.552%	96.751%	96.957%	99.219%
Range				

Sample Name: 190-14295-D-2-A Acquired: 8/28/2017 20:23:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00727**	**-.00089**	**.09612**	**.24934**
Stddev	.00054	.00793	.00264	.00064	.00043
%RSD	377.29	109.11	296.35	.66739	.17387
#1	.00053	-.00166	.00098	.09566	.24965
#2	-.00024	-.01288	-.00276	.09657	.24903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**212.85**	**.00004**	**-.0047**	**.00055**
Stddev	.00001	.95	.00006	.0128	.00017
%RSD	5.3254	.44600	160.92	273.9	30.310
#1	-.00017	213.52	-.00001	-.0138	.00044
#2	-.00019	212.18	.00008	.0044	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00005**	**1.0372**	**5.4368**	**.00455**
Stddev	.00041	.00013	.0012	.0030	.00183
%RSD	74.740	243.84	.11810	.05581	40.246
#1	.00084	.00015	1.0381	5.4347	.00326
#2	.00026	-.00004	1.0363	5.4390	.00585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-2-A Acquired: 8/28/2017 20:23:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.247**	**.45994**	**.00023**	**295.84**	**.00318**
Stddev	.015	.00045	.00013	.73	.00036
%RSD	.03253	.09704	57.393	.24779	11.206
#1	45.257	.45962	.00033	296.36	.00344
#2	45.236	.46026	.00014	295.32	.00293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**36.008**	**-.00064**	**-.00024**	**5.7539**
Stddev	.00277	.083	.00023	.00136	.0180
%RSD	470.27	.23070	36.045	575.88	.31257
#1	-.00254	35.950	-.00080	.00072	5.7666
#2	.00137	36.067	-.00048	-.00120	5.7412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**1.5553**	**-.00052**	**-.00142**	**-.00038**
Stddev	.00122	.0025	.00031	.00131	.00016
%RSD	444.48	.16099	59.696	92.202	43.199
#1	-.00114	1.5571	-.00030	-.00234	-.00026
#2	.00059	1.5535	-.00074	-.00049	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-2-A Acquired: 8/28/2017 20:23:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.53750**
Stddev	.00137
%RSD	.25439
#1	.53847
#2	.53653
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3282.9**	**2433.1**	**19059.**	**4035.9**
Stddev	5.7	3.9	51.	11.0
%RSD	.17341	.15923	.26581	.27200
#1	3286.9	2435.8	19023.	4028.2
#2	3278.8	2430.4	19094.	4043.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.732%	90.882%	89.937%	96.400%
Range				

Sample Name: 190-14295-D-3-A Acquired: 8/28/2017 20:27:05 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.01309**	**.02331**	**.21899**	**.29797**
Stddev	.00069	.01131	.00366	.00022	.00892
%RSD	5022.9	86.421	15.721	.09954	2.9924
#1	-.00050	.02108	.02590	.21914	.29166
#2	.00047	.00509	.02072	.21883	.30427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**136.84**	**.00018**	**.0365**	**.00159**
Stddev	.00001	1.46	.00000	.0084	.00012
%RSD	12.507	1.0644	.11402	23.00	7.2536
#1	-.00010	135.81	.00018	.0305	.00151
#2	-.00011	137.87	.00018	.0424	.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.00032**	**5.4768**	**12.573**	**.00408**
Stddev	.00022	.00002	.0472	.030	.00213
%RSD	69.305	5.4130	.86203	.23591	52.164
#1	-.00016	-.00034	5.4434	12.552	.00258
#2	-.00046	-.00031	5.5101	12.594	.00559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-3-A Acquired: 8/28/2017 20:27:05 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.184**	**.10435**	**.00175**	**78.917**	**.00630**
Stddev	1.475	.00357	.00029	.860	.00007
%RSD	3.2653	3.4175	16.256	1.0898	1.1683
#1	44.141	.10183	.00196	78.309	.00625
#2	46.227	.10688	.00155	79.525	.00635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00157**	**9.6397**	**.00081**	**.00034**	**10.178**
Stddev	.00027	.0076	.00035	.00135	.117
%RSD	17.011	.07891	42.812	392.80	1.1484
#1	.00176	9.6451	.00105	-.00061	10.095
#2	.00138	9.6343	.00056	.00130	10.261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.30392**	**-.00014**	**-.00089**	**-.00029**
Stddev	.00027	.00399	.00083	.00030	.00070
%RSD	766.07	1.3145	609.65	34.318	239.16
#1	.00016	.30110	.00045	-.00110	.00020
#2	-.00023	.30675	-.00072	-.00067	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-3-A Acquired: 8/28/2017 20:27:05 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00677**
Stddev	.00088
%RSD	12.939
#1	.00615
#2	.00739
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3504.8**	**2519.6**	**19555.**	**4110.0**
Stddev	2.8	1.9	467.	34.7
%RSD	.08050	.07635	2.3892	.84531
#1	3506.8	2518.3	19885.	4134.5
#2	3502.9	2521.0	19224.	4085.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.123%	94.115%	92.277%	98.168%
Range				

Sample Name: 190-14295-D-4-A Acquired: 8/28/2017 20:30:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.01374**	**.02568**	**.14264**	**.17021**
Stddev	.00001	.01666	.00096	.00072	.00101
%RSD	1.4915	121.23	3.7434	.50299	.59117
#1	.00040	.02552	.02636	.14314	.17092
#2	.00041	.00196	.02500	.14213	.16950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**71.590**	**.00014**	**.0078**	**-.00025**
Stddev	.00005	.059	.00008	.0276	.00011
%RSD	24.852	.08311	58.194	352.3	45.878
#1	-.00023	71.632	.00008	.0274	-.00017
#2	-.00016	71.548	.00020	-.0117	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00212**	**1.2919**	**1.8864**	**.01012**
Stddev	.00040	.00059	.0054	.0583	.00042
%RSD	140.83	28.001	.42048	3.0914	4.1735
#1	-.00000	.00170	1.2957	1.9277	.01041
#2	-.00056	.00253	1.2880	1.8452	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-4-A Acquired: 8/28/2017 20:30:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.542**	**.02089**	**.02015**	**27.763**	**.00057**
Stddev	.177	.00011	.00009	.012	.00021
%RSD	.54496	.54431	.43170	.04258	37.476
#1	32.667	.02097	.02021	27.771	.00042
#2	32.416	.02081	.02009	27.755	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**5.0184**	**.00070**	**.00397**	**8.6354**
Stddev	.00009	.0077	.00169	.00017	.0309
%RSD	10.036	.15371	242.85	4.3115	.35742
#1	.00082	5.0238	.00189	.00385	8.6136
#2	.00095	5.0129	-.00050	.00409	8.6572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.63705**	**.00002**	**-.00145**	**.00007**
Stddev	.00040	.00020	.00006	.00037	.00036
%RSD	462.33	.03131	368.56	25.298	526.97
#1	-.00037	.63719	-.00003	-.00171	.00032
#2	.00019	.63690	.00006	-.00119	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14295-D-4-A Acquired: 8/28/2017 20:30:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.37613**
Stddev	.00083
%RSD	.22182
#1	.37672
#2	.37554
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3701.2**	**2582.0**	**20412.**	**4110.9**
Stddev	6.1	4.1	86.	6.4
%RSD	.16581	.16035	.41958	.15645
#1	3696.9	2579.1	20351.	4106.3
#2	3705.6	2584.9	20472.	4115.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.893%	96.444%	96.322%	98.190%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 20:34:14 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50729**	**24.009**	**.50268**	**.50590**	**.48851**
Stddev	.00090	.121	.00127	.00108	.00009
%RSD	.17691	.50487	.25206	.21316	.01806
#1	.50666	24.095	.50178	.50667	.48857
#2	.50793	23.924	.50357	.50514	.48844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50168**	**24.616**	**.49942**	**-.0067**	**.48922**
Stddev	.00224	.083	.00051	.0073	.00014
%RSD	.44627	.33783	.10208	109.9	.02876
#1	.50326	24.675	.49978	-.0118	.48932
#2	.50010	24.557	.49906	-.0015	.48912
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51027**	**.50078**	**23.782**	**25.433**	**.51236**
Stddev	.00145	.00010	.136	.152	.00107
%RSD	.28468	.01905	.57205	.59841	.20879
#1	.50924	.50071	23.878	25.541	.51311
#2	.51129	.50084	23.686	25.326	.51160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 20:34:14 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.874**	**.50771**	**.50043**	**25.322**	**.49677**
Stddev	.050	.00013	.00082	.057	.00040
%RSD	.20036	.02651	.16321	.22399	.08099
#1	24.909	.50761	.49985	25.362	.49705
#2	24.838	.50780	.50101	25.282	.49649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49659**	**25.357**	**.49778**	**.50628**	**23.910**
Stddev	.00007	.019	.00089	.00445	.127
%RSD	.01490	.07616	.17975	.87977	.53135
#1	.49664	25.371	.49715	.50943	23.999
#2	.49653	25.343	.49841	.50313	23.820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51197**	**.50149**	**.49725**	**.50459**	**.50319**
Stddev	.00042	.00190	.00079	.00052	.00065
%RSD	.08167	.37873	.15819	.10296	.12837
#1	.51227	.50283	.49669	.50422	.50273
#2	.51168	.50015	.49781	.50495	.50365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 20:34:14 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50788**
Stddev	.00009
%RSD	.01868
#1	.50795
#2	.50782
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3704.1**	**2621.7**	**20537.**	**4084.8**
Stddev	6.0	4.4	10.	14.1
%RSD	.16203	.16933	.05051	.34402
#1	3699.9	2618.6	20529.	4074.9
#2	3708.4	2624.9	20544.	4094.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 20:37:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.01675**	**.00213**	**.00068**	**-.00012**
Stddev	.00020	.00284	.00061	.00002	.00001
%RSD	435.33	16.931	28.728	2.3684	11.050
#1	-.00019	.01475	.00169	.00069	-.00013
#2	.00009	.01876	.00256	.00066	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00199**	**-.00026**	**-.0071**	**-.00015**
Stddev	.00009	.00092	.00011	.0264	.00000
%RSD	35.896	46.262	42.617	372.8	3.0158
#1	-.00033	-.00264	-.00018	-.0257	-.00015
#2	-.00020	-.00134	-.00033	.0116	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00007**	**-.00785**	**.02614**	**-.00100**
Stddev	.00009	.00174	.00060	.02443	.00151
%RSD	261.39	2477.3	7.6825	93.433	151.03
#1	.00009	.00130	-.00742	.04342	.00007
#2	-.00003	-.00116	-.00828	.00887	-.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 20:37:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00681**	**-.00009**	**-.00029**	**.03169**	**.00028**
Stddev	.00139	.00005	.00001	.00074	.00003
%RSD	20.398	50.702	4.6044	2.3343	12.389
#1	-.00779	-.00006	-.00029	.03221	.00025
#2	-.00583	-.00012	-.00028	.03116	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.00579**	**.00069**	**.00387**	**-.01678**
Stddev	.00127	.00404	.00018	.00139	.00515
%RSD	278.80	69.878	25.836	35.808	30.670
#1	.00044	-.00865	.00082	.00485	-.01314
#2	-.00135	-.00293	.00057	.00289	-.02042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**-.00003**	**.00041**	**-.00070**	**.00057**
Stddev	.00002	.00000	.00044	.00189	.00021
%RSD	5.3333	10.827	107.93	269.56	36.345
#1	-.00030	-.00004	.00072	.00064	.00072
#2	-.00028	-.00003	.00010	-.00204	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 20:37:43 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00032**
Stddev	.00013
%RSD	40.765
#1	.00023
#2	.00041
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4127.4**	**2668.3**	**21170.**	**4129.5**
Stddev	18.0	11.3	52.	23.7
%RSD	.43574	.42192	.24490	.57479
#1	4114.7	2660.4	21207.	4146.3
#2	4140.1	2676.3	21133.	4112.8

Sample Name: CCVL-4195955 Acquired: 8/28/2017 20:41:22 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00562**	**.17176**	**.01250**	**.02055**	**.00198**
Stddev	.00003	.01494	.00016	.00006	.00001
%RSD	.51240	8.6980	1.2800	.30013	.49823
#1	.00564	.16120	.01238	.02059	.00198
#2	.00560	.18233	.01261	.02051	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**.49208**	**.00192**	**-.0088**	**.00368**
Stddev	.00002	.00364	.00013	.0198	.00013
%RSD	1.1985	.73964	6.5260	225.6	3.4956
#1	.00189	.48951	.00183	.0052	.00377
#2	.00192	.49466	.00201	-.0228	.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**.00945**	**.04017**	**.54520**	**.03009**
Stddev	.00011	.00118	.00400	.08683	.00200
%RSD	2.5187	12.430	9.9545	15.926	6.6454
#1	.00441	.01028	.03734	.60660	.02868
#2	.00457	.00862	.04300	.48380	.03151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 20:41:22 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19628**	**.00289**	**.00974**	**1.0482**	**.00956**
Stddev	.00128	.00008	.00005	.0098	.00004
%RSD	.65163	2.7022	.46442	.93420	.37561
#1	.19538	.00283	.00978	1.0551	.00959
#2	.19719	.00294	.00971	1.0413	.00954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00901**	**.19565**	**.02026**	**.02436**	**.47784**
Stddev	.00006	.00608	.00048	.00141	.00541
%RSD	.65763	3.1055	2.3819	5.8024	1.1326
#1	.00906	.19135	.01992	.02536	.48166
#2	.00897	.19994	.02060	.02336	.47401
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00898**	**.00498**	**.00455**	**.01903**	**.00494**
Stddev	.00008	.00002	.00026	.00025	.00002
%RSD	.88947	.46535	5.7977	1.3097	.49922
#1	.00903	.00499	.00474	.01886	.00496
#2	.00892	.00496	.00437	.01921	.00492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 20:41:22 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01210
Stddev	.00086
%RSD	7.0784
#1	.01150
#2	.01271
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4119.4	2681.9	21375.	4145.4
Stddev	2.1	4.3	113.	8.2
%RSD	.05211	.15947	.52924	.19748
#1	4120.9	2684.9	21295.	4151.2
#2	4117.9	2678.8	21455.	4139.6

Sample Name: 480-123285-E-1-A Acquired: 8/28/2017 20:45:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.06598**	**.05894**	**11.457**	**.21785**
Stddev	.00001	.00807	.00179	.022	.00061
%RSD	1.3222	12.227	3.0399	.19104	.28140
#1	.00069	.07168	.05768	11.441	.21828
#2	.00068	.06027	.06021	11.472	.21741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**111.67**	**.00037**	**-.0108**	**.02698**
Stddev	.00003	.31	.00030	.0210	.00016
%RSD	18.457	.27939	81.123	194.6	.58552
#1	-.00018	111.45	.00058	.0041	.02687
#2	-.00014	111.89	.00016	-.0257	.02709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08992**	**3.4574**	**2.9028**	**466.32**	**.06519**
Stddev	.00066	.0136	.0196	2.38	.00045
%RSD	.73272	.39198	.67481	.51021	.69442
#1	.09039	3.4670	2.8890	464.64	.06551
#2	.08946	3.4478	2.9167	468.00	.06487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-1-A Acquired: 8/28/2017 20:45:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.110**	**.27895**	**.00458**	**1317.7**	**.19205**
Stddev	.121	.00075	.00041	5.1	.00093
%RSD	.15233	.26876	8.8896	.38572	.48499
#1	79.195	.27949	.00429	1314.1	.19139
#2	79.025	.27842	.00487	1321.3	.19271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00409**	**17.264**	**.00941**	**.00248**	**12.966**
Stddev	.00016	.051	.00001	.00267	.067
%RSD	3.9873	.29660	.12388	107.63	.51342
#1	.00397	17.227	.00942	.00059	12.919
#2	.00420	17.300	.00940	.00437	13.013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01224**	**.92501**	**.03145**	**-.00223**	**.05324**
Stddev	.00070	.00004	.00062	.00284	.00133
%RSD	5.6966	.00412	1.9703	126.98	2.4914
#1	.01274	.92498	.03102	-.00424	.05418
#2	.01175	.92504	.03189	-.00023	.05231
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-1-A Acquired: 8/28/2017 20:45:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.1650**
Stddev	.0025
%RSD	.21367
#1	1.1668
#2	1.1632
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2926.7**	**2327.0**	**17827.**	**4102.2**
Stddev	1.2	.7	66.	28.1
%RSD	.04205	.02853	.36989	.68554
#1	2925.8	2327.5	17781.	4122.1
#2	2927.5	2326.6	17874.	4082.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.080%	86.920%	84.126%	97.984%
Range				

Sample Name: 480-123285-E-2-A Acquired: 8/28/2017 20:48:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.20944**	**.08154**	**11.420**	**.34934**
Stddev	.00025	.00003	.00126	.025	.00074
%RSD	78.893	.01245	1.5469	.22029	.21301
#1	.00014	.20942	.08064	11.402	.34881
#2	.00050	.20946	.08243	11.437	.34986
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**115.00**	**.00020**	**-.0026**	**.02785**
Stddev	.00008	.42	.00006	.0288	.00013
%RSD	62.251	.36545	28.027	1102.	.45333
#1	-.00008	115.30	.00024	-.0230	.02776
#2	-.00020	114.70	.00016	.0178	.02794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10819**	**.00796**	**9.4505**	**463.60**	**.06493**
Stddev	.00038	.00009	.0168	.00	.00054
%RSD	.34854	1.1132	.17794	.00087	.83616
#1	.10793	.00789	9.4386	463.59	.06532
#2	.10846	.00802	9.4623	463.60	.06455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-2-A Acquired: 8/28/2017 20:48:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.181**	**.32452**	**.00547**	**1315.9**	**.19087**
Stddev	.260	.00140	.00003	.3	.00053
%RSD	.32785	.43121	.54161	.02289	.27696
#1	78.998	.32353	.00549	1315.7	.19049
#2	79.365	.32551	.00545	1316.1	.19124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00409**	**18.533**	**.01010**	**.00241**	**12.993**
Stddev	.00022	.040	.00061	.00148	.041
%RSD	5.4141	.21803	6.0501	61.255	.31307
#1	.00393	18.505	.01053	.00137	13.022
#2	.00424	18.562	.00967	.00346	12.964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01940**	**.96781**	**.08800**	**-.00239**	**.06744**
Stddev	.00007	.00601	.00030	.00041	.00047
%RSD	.36239	.62126	.33638	17.065	.70131
#1	.01945	.97206	.08779	-.00268	.06777
#2	.01935	.96356	.08821	-.00210	.06710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-2-A Acquired: 8/28/2017 20:48:36 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.06664
Stddev	.00042
%RSD	.63336
#1	.06635
#2	.06694
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2926.8	2320.2	17851.	4103.5
Stddev	2.7	6.9	2.	26.4
%RSD	.09165	.29900	.01084	.64229
#1	2928.7	2325.1	17849.	4084.8
#2	2924.9	2315.3	17852.	4122.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.082%	86.666%	84.237%	98.013%
Range				

Sample Name: 480-123285-E-3-A Acquired: 8/28/2017 20:52:13 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.08001**	**.05937**	**11.392**	**.19708**
Stddev	.00039	.02896	.00099	.007	.00032
%RSD	119.16	36.193	1.6673	.05930	.16141
#1	.00005	.05953	.06007	11.397	.19686
#2	.00061	.10049	.05867	11.387	.19731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**103.36**	**.00033**	**-.0070**	**.02669**
Stddev	.00007	.47	.00009	.0405	.00004
%RSD	43.476	.45100	26.461	581.7	.16291
#1	-.00022	103.69	.00039	.0217	.02665
#2	-.00011	103.03	.00027	-.0356	.02672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08819**	**1.1417**	**2.3556**	**459.26**	**.06667**
Stddev	.00020	.0016	.0058	1.49	.00048
%RSD	.22158	.13821	.24745	.32537	.71561
#1	.08805	1.1406	2.3597	460.32	.06701
#2	.08833	1.1429	2.3515	458.21	.06634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-3-A Acquired: 8/28/2017 20:52:13 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**78.559**	**.21249**	**.00481**	**1307.2**	**.18661**
Stddev	.360	.00065	.00010	5.1	.00117
%RSD	.45784	.30519	2.1333	.39055	.62755
#1	78.305	.21203	.00488	1310.8	.18579
#2	78.814	.21295	.00474	1303.6	.18744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00292**	**17.081**	**.00914**	**.00303**	**12.924**
Stddev	.00136	.020	.00242	.00436	.066
%RSD	46.675	.11658	26.472	143.88	.51135
#1	.00195	17.095	.01085	-.00005	12.971
#2	.00388	17.067	.00743	.00611	12.878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03793**	**.91325**	**.02842**	**-.00217**	**.05218**
Stddev	.00053	.00195	.00066	.00040	.00097
%RSD	1.3946	.21331	2.3293	18.563	1.8583
#1	.03755	.91463	.02889	-.00189	.05286
#2	.03830	.91188	.02795	-.00246	.05149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123285-E-3-A Acquired: 8/28/2017 20:52:13 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.48887**
Stddev	.00330
%RSD	.67549
#1	.48654
#2	.49121
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2936.5**	**2329.6**	**17870.**	**4072.4**
Stddev	2.2	3.9	30.	27.4
%RSD	.07413	.16751	.16664	.67322
#1	2935.0	2326.8	17891.	4053.0
#2	2938.0	2332.3	17849.	4091.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.319%	87.015%	84.327%	97.270%
Range				

Sample Name: blank Acquired: 8/28/2017 20:55:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00022**	**-.00074**	**.02310**	**-.00007**
Stddev	.00043	.00488	.00055	.00202	.00001
%RSD	127.28	2268.1	73.978	8.7485	10.492
#1	.00064	.00367	-.00113	.02453	-.00007
#2	.00003	-.00324	-.00036	.02167	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.01464**	**-.00016**	**.0038**	**.00007**
Stddev	.00007	.00050	.00005	.0046	.00011
%RSD	43.137	3.3997	30.191	121.5	164.88
#1	-.00011	.01429	-.00013	.0071	-.00001
#2	-.00021	.01500	-.00020	.0005	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00011**	**-.00198**	**.34053**	**-.00027**
Stddev	.00045	.00095	.00141	.01778	.00147
%RSD	508.94	877.88	70.934	5.2205	539.42
#1	-.00023	.00056	-.00298	.35310	-.00131
#2	.00040	-.00078	-.00099	.32796	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 20:55:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00216**	**.00014**	**-.00033**	**.19941**	**.00011**
Stddev	.00481	.00002	.00016	.01453	.00046
%RSD	222.59	14.164	50.308	7.2882	396.18
#1	.00556	.00016	-.00044	.20969	.00044
#2	-.00124	.00013	-.00021	.18913	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**-.00003**	**.00023**	**.00125**	**.07678**
Stddev	.00098	.00155	.00011	.00006	.00858
%RSD	149.77	5112.5	47.640	4.6973	11.171
#1	.00004	.00107	.00031	.00129	.07071
#2	-.00134	-.00113	.00015	.00121	.08284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00011**	**.00003**	**-.00190**	**.00044**
Stddev	.00063	.00002	.00029	.00143	.00019
%RSD	236.78	15.695	831.60	75.168	43.100
#1	.00018	.00010	.00024	-.00089	.00058
#2	-.00071	.00012	-.00017	-.00291	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: blank Acquired: 8/28/2017 20:55:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00425**
Stddev	.00014
%RSD	3.2102
#1	.00434
#2	.00415
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4116.5**	**2666.6**	**21258.**	**4098.4**
Stddev	12.0	4.5	13.	20.1
%RSD	.29041	.17011	.06116	.48956
#1	4108.0	2663.3	21248.	4112.6
#2	4124.9	2669.8	21267.	4084.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.978%	99.602%	100.31%	97.893%
Range				

Sample Name: MB 480-373991/1-A Acquired: 8/28/2017 20:59:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.03029**	**.00081**	**.01750**	**-.00003**
Stddev	.00064	.01340	.00189	.00038	.00002
%RSD	247.64	44.236	234.33	2.1456	45.787
#1	-.00072	.03977	-.00053	.01776	-.00005
#2	.00020	.02082	.00214	.01723	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.07377**	**-.00028**	**.0161**	**.00001**
Stddev	.00007	.00324	.00008	.0107	.00002
%RSD	50.360	4.3867	29.316	66.49	213.99
#1	-.00019	.07149	-.00022	.0085	.00003
#2	-.00009	.07606	-.00033	.0236	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**.00026**	**-.00144**	**.17315**	**.00033**
Stddev	.00043	.00021	.00022	.00623	.00039
%RSD	60.028	78.963	15.195	3.5974	117.75
#1	-.00101	.00041	-.00159	.16874	.00005
#2	-.00041	.00012	-.00129	.17755	.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373991/1-A Acquired: 8/28/2017 20:59:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00308**	**.00147**	**-.00049**	**.13355**	**.00012**
Stddev	.00240	.00005	.00002	.01034	.00015
%RSD	78.059	3.3938	4.3065	7.7408	125.41
#1	-.00478	.00143	-.00048	.12624	.00023
#2	-.00138	.00151	-.00051	.14086	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.00015**	**.00058**	**-.00020**	**.02000**
Stddev	.00066	.00092	.00002	.00005	.00339
%RSD	88.505	598.85	4.1538	24.401	16.938
#1	-.00122	.00081	.00060	-.00017	.02239
#2	-.00028	-.00050	.00056	-.00024	.01760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00044**	**.00018**	**-.00137**	**-.00001**
Stddev	.00020	.00007	.00001	.00022	.00004
%RSD	118.20	16.595	7.5316	15.699	411.82
#1	-.00031	.00049	.00019	-.00152	-.00004
#2	-.00003	.00039	.00017	-.00122	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-373991/1-A Acquired: 8/28/2017 20:59:28 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00284
Stddev	.00017
%RSD	6.0500
#1	.00272
#2	.00297
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4177.5	2694.3	21641.	4206.1
Stddev	3.5	1.5	94.	11.5
%RSD	.08332	.05677	.43363	.27395
#1	4180.0	2695.4	21707.	4214.3
#2	4175.1	2693.2	21574.	4198.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.46%	100.64%	102.12%	100.47%
Range				

Sample Name: LCS 480-373991/2-A Acquired: 8/28/2017 21:03:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04777**	**10.008**	**.20131**	**.22218**	**.20511**
Stddev	.00070	.006	.00297	.00048	.00051
%RSD	1.4638	.06104	1.4761	.21678	.24829
#1	.04728	10.013	.19921	.22184	.20475
#2	.04826	10.004	.20341	.22252	.20547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20183**	**10.028**	**.20518**	**-.0004**	**.19105**
Stddev	.00051	.008	.00024	.0128	.00031
%RSD	.25023	.08035	.11740	2871.	.16026
#1	.20218	10.022	.20501	-.0095	.19083
#2	.20147	10.034	.20535	.0086	.19127
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20288**	**.20340**	**10.106**	**10.275**	**.20830**
Stddev	.00130	.00080	.004	.020	.00052
%RSD	.63947	.39151	.03541	.19309	.24744
#1	.20196	.20396	10.104	10.261	.20866
#2	.20380	.20283	10.109	10.289	.20793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373991/2-A Acquired: 8/28/2017 21:03:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.305**	**.20976**	**.20490**	**10.159**	**.19656**
Stddev	.075	.00155	.00058	.002	.00072
%RSD	.73093	.73880	.28157	.01608	.36716
#1	10.252	.20867	.20449	10.158	.19707
#2	10.358	.21086	.20531	10.160	.19605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20353**	**10.154**	**.20268**	**.20390**	**10.069**
Stddev	.00096	.032	.00165	.00111	.001
%RSD	.47147	.31639	.81484	.54612	.00571
#1	.20285	10.131	.20151	.20311	10.069
#2	.20421	10.177	.20385	.20469	10.070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18232**	**.20274**	**.19995**	**.20384**	**.20695**
Stddev	.00020	.00055	.00039	.00018	.00074
%RSD	.10812	.27159	.19529	.09062	.35944
#1	.18218	.20313	.19967	.20397	.20643
#2	.18246	.20235	.20022	.20370	.20748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-373991/2-A Acquired: 8/28/2017 21:03:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20671
Stddev	.00239
%RSD	1.1563
#1	.20502
#2	.20840
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3918.7	2675.1	21154.	4204.7
Stddev	.8	1.8	172.	16.9
%RSD	.01988	.06893	.81323	.40266
#1	3918.2	2676.4	21276.	4192.7
#2	3919.3	2673.8	21032.	4216.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.175%	99.922%	99.825%	100.43%
Range				

Sample Name: 480-123214-C-1-D Acquired: 8/28/2017 21:06:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.13616**	**.00116**	**.22137**	**.07276**
Stddev	.00070	.00422	.00023	.00096	.00035
%RSD	637.53	3.0958	20.180	.43283	.48595
#1	.00038	.13914	.00132	.22069	.07251
#2	-.00060	.13318	.00099	.22204	.07301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**127.22**	**.00019**	**.0220**	**-.00038**
Stddev	.00007	.81	.00009	.0086	.00021
%RSD	35.811	.63960	46.592	39.04	55.843
#1	-.00025	126.64	.00013	.0159	-.00054
#2	-.00015	127.79	.00025	.0281	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00034**	**.00877**	**16.124**	**.00196**
Stddev	.00012	.00017	.00270	.083	.00152
%RSD	53.924	49.075	30.813	.51305	77.164
#1	.00014	-.00046	.00686	16.066	.00304
#2	.00031	-.00022	.01068	16.183	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-D Acquired: 8/28/2017 21:06:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.847**	**.00069**	**.00022**	**548.34**	**.00072**
Stddev	.330	.00001	.00018	3.33	.00004
%RSD	.57009	1.4453	83.055	.60734	6.2017
#1	57.614	.00068	.00035	545.98	.00076
#2	58.080	.00070	.00009	550.69	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00096**	**53.182**	**-.00039**	**-.00059**	**3.6330**
Stddev	.00122	.075	.00114	.00212	.0290
%RSD	126.38	.14169	293.28	360.68	.79925
#1	-.00010	53.129	.00042	-.00209	3.6124
#2	-.00182	53.235	-.00119	.00091	3.6535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.70186**	**.00008**	**-.00173**	**-.00034**
Stddev	.00001	.00512	.00064	.00175	.00083
%RSD	4.4743	.72975	806.12	101.52	244.55
#1	-.00031	.69824	.00053	-.00049	.00025
#2	-.00033	.70549	-.00037	-.00296	-.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-D Acquired: 8/28/2017 21:06:32 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01900**
Stddev	.00001
%RSD	.05129
#1	.01899
#2	.01901
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3208.0**	**2424.7**	**18715.**	**4038.5**
Stddev	3.4	4.1	115.	24.1
%RSD	.10650	.16967	.61373	.59564
#1	3205.6	2421.7	18796.	4055.5
#2	3210.4	2427.6	18633.	4021.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.912%	90.567%	88.313%	96.461%
Range				

Sample Name: 480-123214-C-1-Dpds Acquired: 8/28/2017 21:10:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05211	9.8753	.21212	.41595	.26137
Stddev	.00024	.0297	.00036	.00099	.00089
%RSD	.46982	.30119	.17172	.23699	.33923
#1	.05229	9.8963	.21187	.41665	.26200
#2	.05194	9.8543	.21238	.41525	.26075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20190	133.18	.21134	.0109	.20037
Stddev	.00104	.46	.00031	.0072	.00005
%RSD	.51528	.34574	.14758	65.85	.02630
#1	.20263	133.50	.21156	.0058	.20033
#2	.20116	132.85	.21112	.0160	.20041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20223	.20272	9.8953	25.833	.20758
Stddev	.00034	.00047	.0072	.020	.00041
%RSD	.16870	.23016	.07240	.07765	.19520
#1	.20199	.20305	9.9004	25.847	.20786
#2	.20247	.20239	9.8902	25.819	.20729
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-Dpds Acquired: 8/28/2017 21:10:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**65.942**	**.20179**	**.19694**	**542.68**	**.20296**
Stddev	.324	.00034	.00001	.21	.00062
%RSD	.49075	.16899	.00636	.03803	.30450
#1	66.171	.20203	.19695	542.82	.20339
#2	65.713	.20155	.19694	542.53	.20252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20913**	**61.845**	**.21216**	**.21263**	**13.562**
Stddev	.00125	.020	.00129	.00184	.051
%RSD	.59908	.03271	.60940	.86694	.37325
#1	.20824	61.860	.21124	.21394	13.598
#2	.21001	61.831	.21307	.21133	13.527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21257**	**.87709**	**.20074**	**.19411**	**.20609**
Stddev	.00039	.00523	.00059	.00184	.00020
%RSD	.18539	.59636	.29423	.95038	.09554
#1	.21229	.88079	.20032	.19281	.20623
#2	.21285	.87339	.20116	.19542	.20595
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-Dpds Acquired: 8/28/2017 21:10:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.22356**
Stddev	.00093
%RSD	.41628
#1	.22422
#2	.22290
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3186.3**	**2444.1**	**18970.**	**4031.0**
Stddev	.8	1.7	13.	4.9
%RSD	.02385	.06985	.06594	.12199
#1	3185.7	2442.9	18979.	4027.6
#2	3186.8	2445.3	18962.	4034.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.386%	91.294%	89.520%	96.283%
Range				

Sample Name: 480-123214-C-1-Dsd@5 Acquired: 8/28/2017 21:13:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.01482**	**-.00041**	**.04741**	**.01483**
Stddev	.00147	.01772	.00082	.00067	.00000
%RSD	264.12	119.57	198.97	1.4128	.00085
#1	-.00048	.02735	.00017	.04788	.01483
#2	.00160	.00229	-.00099	.04694	.01483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**25.112**	**-.00000**	**.0020**	**-.00009**
Stddev	.00000	.057	.00012	.0009	.00017
%RSD	2.7970	.22608	54447.	44.35	188.45
#1	-.00013	25.152	-.00008	.0014	.00003
#2	-.00012	25.072	.00008	.0027	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00001**	**-.00313**	**3.1752**	**-.00091**
Stddev	.00026	.00076	.00078	.0043	.00096
%RSD	79.989	5484.5	24.804	.13497	106.20
#1	-.00014	.00055	-.00258	3.1722	-.00023
#2	-.00050	-.00052	-.00368	3.1782	-.00159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-Dsd@5 Acquired: 8/28/2017 21:13:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.505**	**.00015**	**-.00008**	**108.42**	**.00015**
Stddev	.055	.00004	.00023	.72	.00008
%RSD	.47828	26.764	288.67	.66039	50.276
#1	11.544	.00018	-.00024	108.92	.00010
#2	11.466	.00012	.00008	107.91	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**9.9605**	**.00009**	**.00076**	**.70591**
Stddev	.00103	.0076	.00056	.00298	.00279
%RSD	811.85	.07656	603.93	389.43	.39481
#1	-.00060	9.9551	.00049	.00287	.70788
#2	.00086	9.9659	-.00030	-.00134	.70394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.13906**	**-.00023**	**-.00004**	**-.00006**
Stddev	.00002	.00003	.00016	.00150	.00044
%RSD	30.848	.02506	67.089	4110.4	776.78
#1	.00005	.13909	-.00034	.00102	-.00037
#2	.00007	.13904	-.00012	-.00110	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-Dsd@5 Acquired: 8/28/2017 21:13:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00402**
Stddev	.00025
%RSD	6.3237
#1	.00384
#2	.00420
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3658.2**	**2565.0**	**20084.**	**4066.0**
Stddev	.8	2.1	104.	13.1
%RSD	.02232	.08147	.51545	.32155
#1	3658.7	2566.5	20011.	4056.7
#2	3657.6	2563.6	20157.	4075.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.846%	95.810%	94.776%	97.117%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 21:17:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50532**	**23.864**	**.50210**	**.50952**	**.49142**
Stddev	.00186	.018	.00040	.00110	.00231
%RSD	.36789	.07469	.07931	.21611	.47070
#1	.50400	23.877	.50181	.51030	.48978
#2	.50663	23.852	.50238	.50874	.49305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49872**	**24.492**	**.49967**	**-.0112**	**.48965**
Stddev	.00022	.052	.00120	.0029	.00014
%RSD	.04325	.21117	.23937	26.01	.02921
#1	.49887	24.529	.50051	-.0091	.48975
#2	.49857	24.456	.49882	-.0132	.48954
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50645**	**.50326**	**23.666**	**25.493**	**.51135**
Stddev	.00096	.00070	.029	.069	.00023
%RSD	.18917	.13969	.12115	.27024	.04526
#1	.50577	.50276	23.686	25.444	.51119
#2	.50713	.50376	23.646	25.542	.51151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 21:17:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.798**	**.50760**	**.49924**	**25.314**	**.49745**
Stddev	.031	.00122	.00026	.060	.00002
%RSD	.12650	.24045	.05284	.23662	.00433
#1	24.775	.50674	.49942	25.356	.49743
#2	24.820	.50847	.49905	25.271	.49746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49299**	**25.369**	**.49946**	**.50414**	**23.807**
Stddev	.00189	.048	.00182	.00176	.018
%RSD	.38236	.18834	.36451	.34931	.07401
#1	.49166	25.403	.49817	.50289	23.819
#2	.49433	25.335	.50075	.50538	23.794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51067**	**.50005**	**.49648**	**.50084**	**.50118**
Stddev	.00092	.00073	.00021	.00295	.00158
%RSD	.18002	.14612	.04302	.58867	.31598
#1	.51002	.50057	.49633	.50293	.50006
#2	.51132	.49954	.49663	.49876	.50230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 21:17:21 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50129
Stddev	.00024
%RSD	.04852
#1	.50147
#2	.50112
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3712.7	2630.0	20655.	4122.0
Stddev	6.8	2.8	14.	2.2
%RSD	.18305	.10577	.06755	.05220
#1	3717.5	2632.0	20665.	4120.5
#2	3707.9	2628.1	20645.	4123.5

Sample Name: CCB-4204839 Acquired: 8/28/2017 21:20:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00759**	**.00031**	**.00374**	**-.00012**
Stddev	.00079	.00687	.00180	.00079	.00002
%RSD	450.33	90.514	578.78	21.214	17.754
#1	-.00074	-.01244	.00159	.00430	-.00011
#2	.00038	-.00273	-.00096	.00318	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00112**	**-.00032**	**.0010**	**.00000**
Stddev	.00005	.00359	.00000	.0208	.00007
%RSD	42.627	320.95	.00935	2134.	3286.3
#1	-.00016	.00142	-.00032	.0157	.00005
#2	-.00009	-.00365	-.00032	-.0137	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**-.00009**	**-.00690**	**.08101**	**-.00101**
Stddev	.00012	.00124	.00125	.06725	.00029
%RSD	60.299	1354.1	18.092	83.014	29.144
#1	-.00011	.00078	-.00602	.03346	-.00080
#2	-.00028	-.00097	-.00778	.12856	-.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 21:20:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00854**	**-.00011**	**-.00034**	**.07490**	**.00025**
Stddev	.00140	.00001	.00007	.00977	.00001
%RSD	16.343	4.6220	21.652	13.047	5.8039
#1	-.00952	-.00012	-.00029	.06799	.00026
#2	-.00755	-.00011	-.00040	.08181	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.00391**	**.00016**	**.00319**	**-.00504**
Stddev	.00083	.00177	.00015	.00141	.01358
%RSD	189.56	45.345	95.215	44.372	269.44
#1	.00015	-.00266	.00005	.00418	.00456
#2	-.00102	-.00517	.00027	.00219	-.01465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00001**	**.00042**	**-.00087**	**-.00014**
Stddev	.00005	.00000	.00007	.00022	.00043
%RSD	12.260	48.424	17.169	25.262	300.35
#1	-.00036	-.00001	.00047	-.00102	.00016
#2	-.00043	-.00001	.00037	-.00071	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 21:20:50 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00062
Stddev	.00041
%RSD	65.113
#1	.00034
#2	.00091
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4153.8	2690.8	21441.	4131.2
Stddev	3.9	2.5	23.	8.5
%RSD	.09461	.09297	.10954	.20504
#1	4151.0	2692.6	21424.	4137.2
#2	4156.6	2689.0	21457.	4125.2

Sample Name: CCVL-4195955 Acquired: 8/28/2017 21:24:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00582**	**.20176**	**.01455**	**.02334**	**.00200**
Stddev	.00063	.00742	.00036	.00039	.00001
%RSD	10.749	3.6762	2.4746	1.6570	.69444
#1	.00626	.19651	.01430	.02361	.00199
#2	.00538	.20700	.01481	.02306	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.49539**	**.00187**	**.0040**	**.00380**
Stddev	.00007	.00539	.00012	.0023	.00017
%RSD	3.5292	1.0877	6.3297	56.54	4.4713
#1	.00198	.49920	.00179	.0056	.00392
#2	.00188	.49158	.00196	.0024	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00444**	**.01077**	**.04066**	**.58991**	**.02978**
Stddev	.00063	.00145	.00029	.01412	.00181
%RSD	14.174	13.486	.70786	2.3939	6.0733
#1	.00489	.00975	.04045	.59989	.03106
#2	.00400	.01180	.04086	.57992	.02850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 21:24:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19892**	**.00293**	**.00970**	**1.0877**	**.00953**
Stddev	.00076	.00006	.00027	.0003	.00016
%RSD	.38286	2.1968	2.7666	.03120	1.7243
#1	.19946	.00288	.00989	1.0875	.00965
#2	.19838	.00297	.00951	1.0880	.00942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00971**	**.19655**	**.02187**	**.02767**	**.49447**
Stddev	.00174	.00343	.00125	.00141	.00347
%RSD	17.919	1.7432	5.6954	5.0980	.70234
#1	.01094	.19898	.02099	.02667	.49693
#2	.00848	.19413	.02275	.02867	.49202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00914**	**.00500**	**.00495**	**.01848**	**.00502**
Stddev	.00031	.00005	.00025	.00063	.00014
%RSD	3.3626	1.0627	5.0017	3.4288	2.7386
#1	.00892	.00504	.00478	.01803	.00512
#2	.00936	.00496	.00513	.01893	.00493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 21:24:29 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01132
Stddev	.00049
%RSD	4.2953
#1	.01166
#2	.01098
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4101.4	2672.4	21260.	4079.4
Stddev	4.9	3.5	15.	19.1
%RSD	.12068	.12980	.07201	.46793
#1	4104.9	2674.9	21270.	4092.9
#2	4097.9	2670.0	21249.	4065.9

Sample Name: 480-123214-C-1-E MS Acquired: 8/28/2017 21:28:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04987**	**10.130**	**.21530**	**.41950**	**.26694**
Stddev	.00031	.029	.00036	.00198	.00114
%RSD	.62023	.28358	.16639	.47274	.42753
#1	.05008	10.150	.21504	.42090	.26775
#2	.04965	10.109	.21555	.41810	.26614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20412**	**139.59**	**.21267**	**.0026**	**.20257**
Stddev	.00083	.42	.00006	.0022	.00036
%RSD	.40632	.30058	.02997	83.95	.17697
#1	.20470	139.88	.21262	.0011	.20232
#2	.20353	139.29	.21271	.0042	.20282
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20149**	**.20583**	**9.9236**	**26.299**	**.21095**
Stddev	.00005	.00076	.0016	.013	.00131
%RSD	.02513	.36843	.01594	.04835	.62106
#1	.20145	.20636	9.9225	26.308	.21187
#2	.20152	.20529	9.9247	26.290	.21002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-E MS Acquired: 8/28/2017 21:28:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**68.010**	**.20517**	**.20400**	**559.52**	**.20747**
Stddev	.264	.00028	.00047	1.44	.00021
%RSD	.38796	.13642	.23085	.25715	.09932
#1	68.196	.20537	.20367	558.50	.20762
#2	67.823	.20498	.20434	560.54	.20732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21221**	**63.905**	**.20864**	**.21222**	**13.873**
Stddev	.00026	.134	.00059	.00058	.038
%RSD	.12128	.20951	.28082	.27288	.27408
#1	.21239	63.999	.20906	.21181	13.899
#2	.21202	63.810	.20823	.21263	13.846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19686**	**.91567**	**.20181**	**.19446**	**.20937**
Stddev	.00007	.00572	.00140	.00045	.00058
%RSD	.03657	.62518	.69331	.23285	.27728
#1	.19681	.91972	.20280	.19478	.20978
#2	.19691	.91163	.20082	.19414	.20896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-E MS Acquired: 8/28/2017 21:28:07 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21090**
Stddev	.00116
%RSD	.54913
#1	.21172
#2	.21008
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3177.1**	**2440.4**	**18957.**	**4038.6**
Stddev	2.9	.5	30.	2.2
%RSD	.09063	.02219	.15823	.05550
#1	3179.1	2440.1	18936.	4040.2
#2	3175.1	2440.8	18978.	4037.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.162%	91.156%	89.457%	96.463%
Range				

Sample Name: 480-123214-C-1-F MSD Acquired: 8/28/2017 21:31:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04946**	**10.031**	**.21599**	**.42895**	**.27275**
Stddev	.00055	.064	.00126	.00131	.00026
%RSD	1.1126	.63533	.58244	.30603	.09709
#1	.04985	9.9864	.21688	.42802	.27293
#2	.04907	10.077	.21510	.42988	.27256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20303**	**148.17**	**.21247**	**-.0125**	**.20156**
Stddev	.00047	.03	.00020	.0314	.00048
%RSD	.23301	.01984	.09559	251.1	.23851
#1	.20270	148.15	.21262	.0097	.20122
#2	.20337	148.19	.21233	-.0347	.20190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20239**	**.20665**	**9.8906**	**27.065**	**.21151**
Stddev	.00112	.00027	.0006	.049	.00135
%RSD	.55477	.13179	.00555	.18001	.63855
#1	.20319	.20684	9.8902	27.031	.21056
#2	.20160	.20646	9.8910	27.100	.21247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-F MSD Acquired: 8/28/2017 21:31:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**71.495**	**.20516**	**.20325**	**587.21**	**.20623**
Stddev	.342	.00094	.00093	.86	.00046
%RSD	.47830	.45846	.45930	.14597	.22529
#1	71.737	.20582	.20391	586.60	.20656
#2	71.253	.20449	.20259	587.81	.20591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21200**	**67.037**	**.20713**	**.21251**	**14.001**
Stddev	.00060	.114	.00443	.00210	.022
%RSD	.28264	.17020	2.1380	.98867	.15412
#1	.21158	66.957	.21026	.21102	13.986
#2	.21242	67.118	.20400	.21399	14.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19715**	**.96069**	**.20195**	**.19575**	**.20958**
Stddev	.00018	.00257	.00161	.00139	.00053
%RSD	.09216	.26742	.79808	.70933	.25092
#1	.19728	.95887	.20309	.19673	.20995
#2	.19702	.96251	.20081	.19477	.20920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-1-F MSD Acquired: 8/28/2017 21:31:39 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20842**
Stddev	.00093
%RSD	.44561
#1	.20908
#2	.20777
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3153.0**	**2423.1**	**18760.**	**4032.7**
Stddev	1.1	1.4	86.	17.9
%RSD	.03422	.05590	.45778	.44275
#1	3152.2	2424.1	18700.	4045.3
#2	3153.8	2422.2	18821.	4020.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.577%	90.510%	88.529%	96.322%
Range				

Sample Name: 480-123214-C-2-B Acquired: 8/28/2017 21:35:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.04124**	**.00216**	**.15393**	**.04158**
Stddev	.00076	.01747	.00191	.00033	.00004
%RSD	246.79	42.376	88.325	.21685	.10683
#1	.00023	.02888	.00081	.15416	.04161
#2	-.00084	.05359	.00352	.15369	.04155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**75.942**	**.00025**	**-.0167**	**.00064**
Stddev	.00009	.063	.00006	.0079	.00014
%RSD	61.076	.08299	25.872	47.12	22.091
#1	-.00008	75.986	.00029	-.0112	.00074
#2	-.00021	75.897	.00020	-.0223	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00049**	**.27419**	**11.110**	**-.00255**
Stddev	.00008	.00058	.00390	.024	.00013
%RSD	15.849	119.94	1.4213	.21840	4.9409
#1	-.00042	-.00007	.27694	11.127	-.00246
#2	-.00053	-.00090	.27143	11.093	-.00264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-2-B Acquired: 8/28/2017 21:35:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.260**	**1.1217**	**.00027**	**224.99**	**.00141**
Stddev	.046	.0029	.00007	.04	.00009
%RSD	.13166	.26220	24.841	.01759	6.0565
#1	35.292	1.1237	.00023	224.96	.00135
#2	35.227	1.1196	.00032	225.02	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**21.318**	**-.00053**	**.00321**	**4.7411**
Stddev	.00137	.081	.00112	.00294	.0005
%RSD	648.82	.37869	212.14	91.617	.01013
#1	.00118	21.375	-.00132	.00113	4.7407
#2	-.00076	21.261	.00026	.00529	4.7414
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.33661**	**.00076**	**-.00083**	**.00009**
Stddev	.00014	.00024	.00007	.00075	.00024
%RSD	24.067	.07211	9.3524	90.442	278.68
#1	.00070	.33678	.00071	-.00136	.00026
#2	.00049	.33644	.00081	-.00030	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-2-B Acquired: 8/28/2017 21:35:12 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02086
Stddev	.00025
%RSD	1.1818
#1	.02068
#2	.02103
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3444.2	2506.1	19664.	4094.5
Stddev	.3	2.3	60.	3.8
%RSD	.00778	.09136	.30557	.09303
#1	3444.4	2504.5	19622.	4097.2
#2	3444.0	2507.7	19707.	4091.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.650%	93.608%	92.794%	97.798%
Range				

Sample Name: 480-123214-C-3-B Acquired: 8/28/2017 21:38:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.15369**	**.00144**	**.26910**	**.08532**
Stddev	.00023	.00465	.00099	.00013	.00021
%RSD	4470.0	3.0257	68.444	.04792	.24951
#1	.00016	.15698	.00214	.26919	.08517
#2	-.00017	.15040	.00074	.26901	.08547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**107.22**	**-.00004**	**-.0055**	**-.00014**
Stddev	.00004	.10	.00007	.0429	.00008
%RSD	51.524	.09203	167.98	782.5	54.725
#1	-.00005	107.15	-.00009	-.0358	-.00009
#2	-.00011	107.29	.00001	.0248	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00001**	**2.3920**	**13.217**	**-.00267**
Stddev	.00015	.00025	.0004	.028	.00191
%RSD	1189.1	1936.2	.01562	.21290	71.485
#1	-.00009	-.00019	2.3922	13.198	-.00132
#2	.00012	.00016	2.3917	13.237	-.00402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-3-B Acquired: 8/28/2017 21:38:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.299**	**.92230**	**-.00003**	**287.29**	**.00064**
Stddev	.027	.00079	.00005	.15	.00047
%RSD	.09109	.08612	144.12	.05279	73.069
#1	29.281	.92174	.00000	287.18	.00031
#2	29.318	.92286	-.00006	287.40	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**28.345**	**.00032**	**.00067**	**6.4973**
Stddev	.00259	.040	.00103	.00163	.0020
%RSD	187.01	.14186	321.68	244.80	.03035
#1	.00322	28.373	.00105	-.00049	6.4959
#2	-.00045	28.317	-.00041	.00182	6.4987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.61796**	**.00963**	**-.00179**	**.00031**
Stddev	.00073	.00015	.00046	.00081	.00052
%RSD	1584.4	.02376	4.7511	45.076	169.15
#1	-.00056	.61807	.00931	-.00122	.00068
#2	.00047	.61786	.00995	-.00236	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-3-B Acquired: 8/28/2017 21:38:45 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02834**
Stddev	.00010
%RSD	.36959
#1	.02826
#2	.02841
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3374.4**	**2488.8**	**19445.**	**4074.6**
Stddev	2.1	1.6	12.	18.8
%RSD	.06364	.06522	.05926	.46183
#1	3372.9	2487.7	19453.	4087.9
#2	3375.9	2490.0	19437.	4061.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.954%	92.964%	91.762%	97.323%
Range				

Sample Name: 480-123214-C-4-B Acquired: 8/28/2017 21:42:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.16420**	**.00235**	**.28688**	**.15901**
Stddev	.00018	.02622	.00307	.00103	.00026
%RSD	126.34	15.969	131.01	.35794	.16113
#1	-.00001	.18274	.00017	.28616	.15919
#2	-.00026	.14566	.00452	.28761	.15883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**100.58**	**.00058**	**.0048**	**-.00031**
Stddev	.00005	.28	.00021	.0120	.00013
%RSD	32.331	.28330	37.072	251.6	43.175
#1	-.00011	100.78	.00073	-.0037	-.00040
#2	-.00017	100.38	.00043	.0133	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00206**	**.36498**	**40.417**	**-.00206**
Stddev	.00060	.00019	.00512	.177	.00195
%RSD	524.06	9.0565	1.4041	.43777	95.045
#1	.00053	.00219	.36860	40.543	-.00067
#2	-.00031	.00193	.36136	40.292	-.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-4-B Acquired: 8/28/2017 21:42:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**127.76**	**.07123**	**-.00008**	**809.84**	**.00088**
Stddev	.16	.00026	.00004	2.26	.00072
%RSD	.12324	.36215	50.580	.27925	81.608
#1	127.87	.07141	-.00005	811.44	.00138
#2	127.65	.07104	-.00011	808.24	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**81.214**	**.00042**	**.00068**	**3.0695**
Stddev	.00018	.230	.00241	.00012	.0060
%RSD	64.553	.28349	578.51	17.303	.19551
#1	.00016	81.052	-.00129	.00076	3.0738
#2	.00042	81.377	.00212	.00060	3.0653
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.92504**	**.00633**	**-.00189**	**-.00072**
Stddev	.00063	.00564	.00022	.00043	.00027
%RSD	631.59	.60916	3.4002	22.792	38.071
#1	.00054	.92903	.00618	-.00219	-.00091
#2	-.00034	.92106	.00648	-.00158	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-4-B Acquired: 8/28/2017 21:42:24 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01673
Stddev	.00032
%RSD	1.9036
#1	.01651
#2	.01696
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3089.6	2367.7	18275.	3976.8
Stddev	3.1	4.3	5.	20.2
%RSD	.10047	.18068	.02916	.50683
#1	3087.4	2370.8	18279.	3962.5
#2	3091.8	2364.7	18271.	3991.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.038%	88.441%	86.238%	94.987%
Range				

Sample Name: 480-123214-C-5-B Acquired: 8/28/2017 21:46:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.22858**	**.00240**	**.09009**	**.10528**
Stddev	.00116	.00538	.00150	.00017	.00049
%RSD	241.43	2.3524	62.304	.19126	.46204
#1	-.00034	.22478	.00134	.09021	.10562
#2	.00130	.23238	.00346	.08996	.10493
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**198.39**	**.00021**	**-.0088**	**.00020**
Stddev	.00005	.55	.00015	.0183	.00014
%RSD	31.577	.27710	73.867	207.0	68.920
#1	-.00021	198.78	.00032	-.0217	.00010
#2	-.00013	198.00	.00010	.0041	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00029**	**1.7234**	**4.6344**	**-.00496**
Stddev	.00072	.00072	.0022	.0368	.00027
%RSD	529.29	248.31	.12619	.79449	5.5333
#1	.00037	.00022	1.7219	4.6084	-.00515
#2	-.00065	-.00080	1.7250	4.6605	-.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-5-B Acquired: 8/28/2017 21:46:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.964**	**2.2937**	**.00057**	**58.574**	**.00170**
Stddev	.136	.0122	.00006	.237	.00041
%RSD	.61779	.53368	10.688	.40413	23.960
#1	22.060	2.3024	.00061	58.741	.00141
#2	21.868	2.2850	.00053	58.406	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**59.634**	**-.00002**	**-.00121**	**4.6598**
Stddev	.00136	.095	.00026	.00140	.0292
%RSD	107.90	.15953	1054.4	115.87	.62568
#1	.00222	59.701	-.00021	-.00219	4.6392
#2	.00030	59.567	.00016	-.00022	4.6805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.72815**	**.01121**	**-.00107**	**.00140**
Stddev	.00006	.00409	.00030	.00087	.00061
%RSD	11.456	.56145	2.7036	81.032	43.335
#1	-.00055	.73104	.01143	-.00046	.00183
#2	-.00047	.72526	.01100	-.00169	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-5-B Acquired: 8/28/2017 21:46:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01822**
Stddev	.00022
%RSD	1.2101
#1	.01838
#2	.01807
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3519.5**	**2488.2**	**19760.**	**4101.9**
Stddev	1.6	.0	121.	15.8
%RSD	.04529	.00082	.61360	.38557
#1	3518.4	2488.2	19674.	4090.7
#2	3520.6	2488.2	19846.	4113.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.479%	92.940%	93.247%	97.975%
Range				

Sample Name: 480-123214-C-6-B Acquired: 8/28/2017 21:49:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00104**	**.12120**	**.00250**	**.25651**	**.07583**
Stddev	.00129	.03069	.00138	.00024	.00016
%RSD	124.13	25.326	54.996	.09261	.21585
#1	-.00195	.09949	.00348	.25634	.07595
#2	-.00013	.14290	.00153	.25668	.07572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**99.945**	**-.00006**	**-.0049**	**-.00012**
Stddev	.00005	.118	.00010	.0178	.00012
%RSD	30.405	.11796	162.96	362.9	105.81
#1	-.00020	99.862	-.00013	.0077	-.00021
#2	-.00013	100.03	.00001	-.0175	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00064**	**2.0070**	**12.293**	**-.00306**
Stddev	.00028	.00020	.0021	.005	.00150
%RSD	132.18	31.352	.10387	.04027	49.212
#1	-.00001	.00050	2.0084	12.289	-.00199
#2	-.00041	.00078	2.0055	12.296	-.00412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-6-B Acquired: 8/28/2017 21:49:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.289**	**.84360**	**-.00008**	**281.56**	**.00064**
Stddev	.070	.00089	.00005	.26	.00019
%RSD	.24711	.10597	63.749	.09228	29.665
#1	28.339	.84423	-.00004	281.75	.00077
#2	28.240	.84296	-.00011	281.38	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00065**	**28.495**	**.00010**	**.00208**	**6.0171**
Stddev	.00038	.018	.00011	.00278	.0184
%RSD	59.540	.06447	106.47	133.71	.30633
#1	.00037	28.508	.00003	.00011	6.0040
#2	.00092	28.482	.00018	.00404	6.0301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.56825**	**.00870**	**-.00015**	**.00041**
Stddev	.00020	.00143	.00516	.00088	.00015
%RSD	209.89	.25096	59.271	582.65	36.884
#1	-.00005	.56724	.01235	.00047	.00030
#2	.00023	.56926	.00506	-.00077	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123214-C-6-B Acquired: 8/28/2017 21:49:38 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01690**
Stddev	.00003
%RSD	.18603
#1	.01692
#2	.01688
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3384.0**	**2488.0**	**19447.**	**4076.1**
Stddev	8.2	4.9	48.	5.9
%RSD	.24137	.19775	.24642	.14463
#1	3389.8	2491.5	19413.	4080.3
#2	3378.3	2484.6	19481.	4071.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.188%	92.934%	91.770%	97.359%
Range				

Sample Name: 480-123173-B-13-A Acquired: 8/28/2017 21:53:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.06278**	**.01100**	**.06567**	**.06832**
Stddev	.00022	.01260	.00056	.00020	.00033
%RSD	46.758	20.063	5.1317	.30057	.48474
#1	.00064	.07169	.01140	.06553	.06855
#2	.00032	.05387	.01060	.06581	.06808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**87.748**	**.00014**	**.0086**	**-.00019**
Stddev	.00010	.176	.00024	.0148	.00003
%RSD	61.516	.20106	166.82	172.9	13.322
#1	-.00009	87.872	-.00003	.0191	-.00021
#2	-.00023	87.623	.00031	-.0019	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00026**	**1.5862**	**1.2963**	**.00284**
Stddev	.00057	.00073	.0018	.0218	.00026
%RSD	111.11	278.30	.11358	1.6788	9.2926
#1	-.00011	.00025	1.5874	1.3117	.00265
#2	-.00092	-.00078	1.5849	1.2809	.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-13-A Acquired: 8/28/2017 21:53:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.426**	**.03511**	**.00228**	**14.385**	**.00032**
Stddev	.174	.00013	.00025	.084	.00030
%RSD	.57274	.37221	10.891	.58493	93.933
#1	30.550	.03520	.00211	14.444	.00054
#2	30.303	.03502	.00246	14.325	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**22.331**	**-.00068**	**.00195**	**7.6082**
Stddev	.00027	.120	.00021	.00227	.0298
%RSD	20.625	.53783	30.850	116.30	.39212
#1	.00149	22.416	-.00053	.00355	7.6293
#2	.00111	22.246	-.00083	.00035	7.5871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.33361**	**.00021**	**.00058**	**-.00043**
Stddev	.00000	.00189	.00013	.00099	.00016
%RSD	1.0984	.56623	62.501	169.75	38.104
#1	-.00012	.33495	.00012	.00128	-.00032
#2	-.00012	.33228	.00030	-.00012	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-13-A Acquired: 8/28/2017 21:53:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00368**
Stddev	.00022
%RSD	5.9593
#1	.00353
#2	.00384
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3709.5**	**2573.0**	**20396.**	**4123.4**
Stddev	14.1	15.4	68.	22.1
%RSD	.37896	.59666	.33232	.53507
#1	3699.5	2562.2	20348.	4107.8
#2	3719.4	2583.9	20444.	4139.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.092%	96.109%	96.249%	98.490%
Range				

Sample Name: 480-123173-B-14-A Acquired: 8/28/2017 21:56:52 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.02505**	**.01427**	**.24667**	**.14804**
Stddev	.00014	.00630	.00067	.00009	.00013
%RSD	14.942	25.143	4.6635	.03608	.08476
#1	.00104	.02060	.01380	.24674	.14813
#2	.00084	.02950	.01474	.24661	.14795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**31.002**	**.00003**	**.0198**	**-.00021**
Stddev	.00004	.031	.00006	.0035	.00003
%RSD	21.315	.10098	193.60	17.50	15.675
#1	-.00014	30.980	.00008	.0173	-.00019
#2	-.00019	31.024	-.00001	.0222	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00014**	**.28555**	**1.8764**	**.00484**
Stddev	.00117	.00082	.00380	.0566	.00026
%RSD	209.51	595.44	1.3302	3.0157	5.3487
#1	-.00138	.00072	.28287	1.9164	.00502
#2	.00027	-.00044	.28824	1.8364	.00465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-14-A Acquired: 8/28/2017 21:56:52 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.758**	**.01701**	**.01201**	**49.419**	**.00023**
Stddev	.004	.00011	.00002	.073	.00003
%RSD	.03008	.63729	.15389	.14722	12.942
#1	13.755	.01708	.01200	49.471	.00021
#2	13.761	.01693	.01202	49.368	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.15617**	**-.00069**	**.00273**	**5.9052**
Stddev	.00068	.00207	.00001	.00042	.0006
%RSD	174.44	1.3251	1.9053	15.260	.01000
#1	-.00009	.15470	-.00068	.00244	5.9056
#2	.00087	.15763	-.00070	.00303	5.9048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**1.2896**	**.00022**	**-.00136**	**.00030**
Stddev	.00068	.0028	.00020	.00098	.00013
%RSD	136.97	.21924	90.474	72.128	41.709
#1	-.00002	1.2916	.00036	-.00067	.00021
#2	-.00097	1.2876	.00008	-.00205	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-14-A Acquired: 8/28/2017 21:56:52 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00329**
Stddev	.00028
%RSD	8.6055
#1	.00309
#2	.00349
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3779.0**	**2613.1**	**20695.**	**4139.2**
Stddev	3.0	2.9	3.	16.7
%RSD	.07808	.10953	.01322	.40409
#1	3781.1	2615.1	20697.	4151.0
#2	3776.9	2611.1	20693.	4127.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.781%	97.605%	97.657%	98.865%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:00:28 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50683**	**23.941**	**.50109**	**.51019**	**.49594**
Stddev	.00164	.075	.00026	.00041	.00162
%RSD	.32410	.31416	.05222	.08019	.32643
#1	.50567	23.888	.50127	.51048	.49480
#2	.50799	23.995	.50090	.50990	.49709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50185**	**24.559**	**.50340**	**-.0180**	**.49244**
Stddev	.00081	.052	.00063	.0055	.00018
%RSD	.16203	.21047	.12478	30.74	.03648
#1	.50242	24.595	.50296	-.0219	.49256
#2	.50127	24.522	.50385	-.0141	.49231
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50758**	**.50599**	**23.765**	**25.676**	**.51763**
Stddev	.00112	.00110	.031	.110	.00086
%RSD	.22098	.21706	.12980	.42884	.16621
#1	.50679	.50676	23.787	25.599	.51702
#2	.50837	.50521	23.744	25.754	.51824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:00:28 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.041**	**.51081**	**.50018**	**25.473**	**.50070**
Stddev	.050	.00123	.00003	.101	.00051
%RSD	.19902	.24024	.00550	.39708	.10254
#1	25.005	.50994	.50020	25.402	.50034
#2	25.076	.51168	.50016	25.545	.50107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49872**	**25.448**	**.50247**	**.50286**	**23.834**
Stddev	.00114	.024	.00076	.00363	.017
%RSD	.22955	.09437	.15067	.72238	.07229
#1	.49791	25.465	.50193	.50543	23.822
#2	.49953	25.431	.50300	.50030	23.846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51432**	**.50060**	**.50028**	**.50441**	**.50502**
Stddev	.00068	.00063	.00178	.00259	.00111
%RSD	.13190	.12683	.35577	.51396	.21952
#1	.51480	.50015	.49902	.50624	.50424
#2	.51384	.50105	.50153	.50258	.50581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:00:28 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50639**
Stddev	.00177
%RSD	.34861
#1	.50514
#2	.50764
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3699.5**	**2624.4**	**20550.**	**4104.5**
Stddev	7.9	3.3	113.	3.9
%RSD	.21223	.12396	.54967	.09543
#1	3705.0	2626.7	20630.	4107.3
#2	3693.9	2622.1	20470.	4101.8

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:03:56 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.01755**	**-.00032**	**.00156**	**-.00014**
Stddev	.00004	.01331	.00131	.00002	.00001
%RSD	69.375	75.863	408.97	1.5244	7.5411
#1	-.00008	-.02697	.00061	.00154	-.00013
#2	-.00003	-.00814	-.00125	.00158	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**-.00175**	**-.00006**	**.0181**	**-.00011**
Stddev	.00001	.00244	.00007	.0165	.00002
%RSD	4.6061	138.86	116.27	91.10	22.291
#1	-.00024	-.00003	-.00010	.0298	-.00009
#2	-.00022	-.00348	-.00001	.0064	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00015**	**-.00785**	**.08030**	**-.00009**
Stddev	.00030	.00008	.00082	.02409	.00015
%RSD	452.36	52.160	10.383	30.005	164.10
#1	.00015	-.00020	-.00843	.09733	.00001
#2	-.00028	-.00009	-.00728	.06326	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:03:56 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**-.00007**	**-.00035**	**.05757**	**.00017**
Stddev	.00161	.00007	.00007	.00554	.00017
%RSD	344.47	91.209	18.575	9.6202	95.979
#1	.00067	-.00003	-.00031	.05366	.00006
#2	-.00160	-.00012	-.00040	.06149	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00313**	**.00084**	**.00339**	**.00664**
Stddev	.00006	.00039	.00140	.00063	.01400
%RSD	50.253	12.367	166.29	18.675	210.67
#1	-.00007	-.00286	-.00015	.00294	.01654
#2	-.00015	-.00341	.00183	.00384	-.00325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00005**	**.00028**	**-.00069**	**-.00006**
Stddev	.00037	.00003	.00021	.00030	.00013
%RSD	1028.5	52.083	75.587	42.912	220.29
#1	.00030	.00007	.00013	-.00090	.00003
#2	-.00023	.00003	.00043	-.00048	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:03:56 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00012
Stddev	.00054
%RSD	440.12
#1	-.00026
#2	.00050
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4141.1	2682.8	21403.	4122.4
Stddev	6.4	2.9	67.	45.6
%RSD	.15358	.10776	.31100	1.1069
#1	4136.6	2680.8	21356.	4090.2
#2	4145.6	2684.9	21451.	4154.7

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:07:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00720**	**.19383**	**.01631**	**.02146**	**.00200**
Stddev	.00004	.01951	.00055	.00023	.00002
%RSD	.60926	10.064	3.3562	1.0840	.84671
#1	.00717	.20763	.01670	.02130	.00199
#2	.00723	.18004	.01592	.02163	.00201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.49468**	**.00189**	**.0031**	**.00392**
Stddev	.00004	.00157	.00018	.0194	.00000
%RSD	2.1392	.31831	9.5489	632.9	.11799
#1	.00185	.49580	.00201	.0168	.00392
#2	.00190	.49357	.00176	-.0107	.00392
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00412**	**.01022**	**.04113**	**.53882**	**.03021**
Stddev	.00022	.00039	.00223	.08168	.00048
%RSD	5.3585	3.8273	5.4149	15.159	1.5912
#1	.00428	.01049	.04270	.59658	.03055
#2	.00396	.00994	.03955	.48106	.02987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:07:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20305**	**.00294**	**.00988**	**1.0894**	**.00945**
Stddev	.00040	.00001	.00013	.0152	.00020
%RSD	.19771	.36078	1.2984	1.3932	2.1056
#1	.20277	.00295	.00997	1.1002	.00931
#2	.20334	.00293	.00979	1.0787	.00959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00981**	**.19529**	**.01990**	**.02707**	**.48556**
Stddev	.00032	.00235	.00204	.00395	.00635
%RSD	3.2680	1.2032	10.252	14.597	1.3083
#1	.01004	.19363	.01846	.02428	.49005
#2	.00958	.19695	.02134	.02986	.48106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00915**	**.00499**	**.00478**	**.02018**	**.00509**
Stddev	.00015	.00010	.00041	.00071	.00024
%RSD	1.6307	1.9987	8.5675	3.4961	4.6640
#1	.00926	.00506	.00507	.02068	.00493
#2	.00905	.00492	.00449	.01968	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:07:36 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01241
Stddev	.00013
%RSD	1.0473
#1	.01232
#2	.01250
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4125.2	2688.1	21373.	4104.5
Stddev	11.8	9.9	87.	42.7
%RSD	.28702	.36743	.40594	1.0392
#1	4116.8	2681.1	21312.	4074.3
#2	4133.6	2695.1	21434.	4134.6

Sample Name: 480-123209-A-5-A Acquired: 8/28/2017 22:11:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.04006**	**.00359**	**.01126**	**.01649**
Stddev	.00026	.00827	.00160	.00011	.00008
%RSD	81.624	20.647	44.644	.96663	.46575
#1	.00014	.04591	.00246	.01133	.01643
#2	.00051	.03421	.00472	.01118	.01654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**33.142**	**.00003**	**-.0267**	**-.00017**
Stddev	.00001	.067	.00004	.0050	.00013
%RSD	4.5399	.20356	116.16	18.57	75.959
#1	-.00013	33.190	.00006	-.0232	-.00026
#2	-.00012	33.095	.00001	-.0302	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00024**	**1.8393**	**4.4401**	**.00222**
Stddev	.00028	.00025	.0016	.0357	.00031
%RSD	230.25	106.69	.08748	.80450	14.053
#1	-.00032	-.00006	1.8381	4.4148	.00244
#2	.00008	-.00042	1.8404	4.4653	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123209-A-5-A Acquired: 8/28/2017 22:11:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8247**	**.32596**	**.00153**	**23.398**	**.00524**
Stddev	.0163	.00020	.00021	.017	.00003
%RSD	.18483	.06277	14.025	.07250	.49572
#1	8.8362	.32582	.00168	23.410	.00522
#2	8.8131	.32610	.00138	23.386	.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**11.173**	**-.00087**	**.00119**	**7.4534**
Stddev	.00040	.005	.00014	.00218	.0229
%RSD	36.438	.04131	15.536	182.98	.30686
#1	.00081	11.170	-.00077	-.00035	7.4696
#2	.00137	11.176	-.00097	.00273	7.4372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00043**	**.13996**	**.00015**	**-.00152**	**.00067**
Stddev	.00034	.00035	.00002	.00027	.00063
%RSD	77.567	.24923	10.633	17.511	93.576
#1	-.00067	.14021	.00014	-.00170	.00023
#2	-.00020	.13971	.00016	-.00133	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123209-A-5-A Acquired: 8/28/2017 22:11:14 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00806**
Stddev	.00032
%RSD	3.9084
#1	.00784
#2	.00829
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3881.0**	**2635.9**	**20991.**	**4169.6**
Stddev	2.6	.4	37.	4.2
%RSD	.06653	.01687	.17629	.10037
#1	3879.2	2635.5	21017.	4172.6
#2	3882.8	2636.2	20965.	4166.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.258%	98.456%	99.055%	99.593%
Range				

Sample Name: 480-123158-D-1-A Acquired: 8/28/2017 22:14:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.02046**	**-.00076**	**.00889**	**.00811**
Stddev	.00013	.00166	.00038	.00023	.00003
%RSD	49.457	8.1219	49.723	2.5925	.34219
#1	.00017	.01928	-.00049	.00905	.00809
#2	.00035	.02163	-.00103	.00872	.00813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**20.243**	**.00007**	**-.0058**	**.00061**
Stddev	.00002	.020	.00006	.0102	.00005
%RSD	15.730	.09757	84.569	176.2	7.8227
#1	-.00013	20.229	.00011	.0014	.00064
#2	-.00011	20.257	.00003	-.0130	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.00258**	**.00033**	**2.6125**	**.00556**
Stddev	.00082	.00089	.00083	.0391	.00063
%RSD	355.42	34.543	252.04	1.4978	11.272
#1	-.00081	.00195	-.00026	2.5848	.00600
#2	.00035	.00322	.00091	2.6402	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-1-A Acquired: 8/28/2017 22:14:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.5669**	**.09703**	**-.00045**	**5.5718**	**.00561**
Stddev	.0249	.00040	.00007	.0017	.00032
%RSD	.37910	.40870	15.467	.03047	5.6937
#1	6.5493	.09675	-.00050	5.5730	.00584
#2	6.5845	.09731	-.00040	5.5706	.00539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**3.1521**	**-.00061**	**.00188**	**11.635**
Stddev	.00017	.0015	.00321	.00136	.016
%RSD	9.8545	.04740	527.10	72.630	.13429
#1	.00159	3.1511	-.00288	.00091	11.646
#2	.00183	3.1532	.00166	.00284	11.624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.08510**	**.00001**	**-.00098**	**.00041**
Stddev	.00025	.00003	.00016	.00028	.00018
%RSD	64.071	.03374	1434.7	28.766	43.697
#1	-.00057	.08508	.00012	-.00118	.00028
#2	-.00022	.08512	-.00010	-.00078	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-1-A Acquired: 8/28/2017 22:14:47 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00682
Stddev	.00008
%RSD	1.1811
#1	.00676
#2	.00688
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3990.6	2671.6	21223.	4174.5
Stddev	.3	5.1	8.	37.8
%RSD	.00715	.19254	.03832	.90512
#1	3990.4	2668.0	21229.	4201.2
#2	3990.8	2675.3	21217.	4147.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.921%	99.792%	100.15%	99.710%
Range				

Sample Name: 480-123158-D-2-A Acquired: 8/28/2017 22:18:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.02287**	**-.00030**	**.01807**	**.03712**
Stddev	.00008	.01643	.00303	.00007	.00001
%RSD	7.7210	71.848	1012.2	.36282	.03094
#1	.00110	.03449	-.00244	.01803	.03711
#2	.00099	.01125	.00184	.01812	.03713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**50.686**	**.00011**	**-.0217**	**.00005**
Stddev	.00004	.219	.00017	.0026	.00022
%RSD	26.530	.43232	161.83	12.03	420.34
#1	-.00019	50.531	.00023	-.0236	-.00010
#2	-.00013	50.841	-.00002	-.0199	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.01724**	**-.00222**	**22.517**	**-.00068**
Stddev	.00020	.00095	.00095	.142	.00282
%RSD	43.791	5.5324	42.726	.62954	413.67
#1	-.00031	.01791	-.00155	22.417	.00131
#2	-.00059	.01656	-.00290	22.617	-.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-2-A Acquired: 8/28/2017 22:18:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.283**	**3.9346**	**-.00042**	**8.8071**	**.01122**
Stddev	.021	.0001	.00007	.0479	.00067
%RSD	.12845	.00297	17.628	.54346	5.9548
#1	16.268	3.9347	-.00036	8.7732	.01169
#2	16.297	3.9345	-.00047	8.8409	.01075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**16.959**	**.00113**	**.00076**	**8.3440**
Stddev	.00020	.007	.00055	.00255	.0039
%RSD	10.982	.04356	48.861	334.64	.04608
#1	.00199	16.964	.00074	.00257	8.3413
#2	.00170	16.954	.00152	-.00104	8.3467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.50525**	**-.00007**	**-.00096**	**-.00003**
Stddev	.00018	.00270	.00002	.00098	.00068
%RSD	157.68	.53405	26.286	101.78	2006.3
#1	.00001	.50334	-.00006	-.00165	.00045
#2	-.00025	.50716	-.00009	-.00027	-.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-2-A Acquired: 8/28/2017 22:18:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01276**
Stddev	.00004
%RSD	.28517
#1	.01274
#2	.01279
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3814.9**	**2630.5**	**20832.**	**4157.3**
Stddev	9.7	9.1	19.	10.5
%RSD	.25455	.34704	.08889	.25173
#1	3808.1	2624.0	20818.	4164.7
#2	3821.8	2636.9	20845.	4149.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.654%	98.254%	98.303%	99.299%
Range				

Sample Name: 480-123158-D-3-A Acquired: 8/28/2017 22:21:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.01872**	**.00646**	**.01006**	**.00006**
Stddev	.00043	.00089	.00099	.00100	.00000
%RSD	206.70	4.7673	15.302	9.9214	3.3472
#1	-.00010	.01809	.00577	.01077	.00005
#2	.00051	.01935	.00716	.00935	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**11.547**	**-.00020**	**-.0033**	**-.00008**
Stddev	.00002	.035	.00019	.0199	.00000
%RSD	13.350	.30429	94.596	601.5	5.9043
#1	-.00013	11.572	-.00033	.0107	-.00008
#2	-.00016	11.522	-.00007	-.0173	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.01364**	**.01109**	**1.7479**	**.00789**
Stddev	.00000	.00032	.00253	.0012	.00127
%RSD	.15294	2.3375	22.813	.06968	16.056
#1	.00038	.01342	.01288	1.7487	.00879
#2	.00039	.01387	.00930	1.7470	.00700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-3-A Acquired: 8/28/2017 22:21:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0086**	**.00105**	**.01518**	**14.383**	**-.00003**
Stddev	.0015	.00005	.00009	.047	.00005
%RSD	.07620	4.8289	.60689	.32439	192.98
#1	2.0075	.00101	.01511	14.416	-.00007
#2	2.0097	.00109	.01524	14.350	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**2.2527**	**-.00123**	**.00488**	**5.6997**
Stddev	.00129	.0024	.00062	.00116	.0023
%RSD	770.62	.10869	50.281	23.701	.04041
#1	-.00074	2.2545	-.00167	.00570	5.7013
#2	.00108	2.2510	-.00079	.00406	5.6981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.09805**	**.00005**	**-.00088**	**.00163**
Stddev	.00019	.00011	.00001	.00069	.00043
%RSD	75.647	.11182	26.525	77.685	26.204
#1	-.00012	.09797	.00004	-.00040	.00193
#2	-.00039	.09813	.00006	-.00137	.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-3-A Acquired: 8/28/2017 22:21:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00773**
Stddev	.00002
%RSD	.23447
#1	.00772
#2	.00774
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3988.8**	**2665.0**	**21176.**	**4161.5**
Stddev	.0	6.1	86.	15.4
%RSD	.00084	.22731	.40575	.36897
#1	3988.8	2660.7	21115.	4150.6
#2	3988.8	2669.3	21237.	4172.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.876%	99.544%	99.929%	99.398%
Range				

Sample Name: 480-123158-D-4-A Acquired: 8/28/2017 22:25:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.02293**	**.00013**	**.00622**	**.01005**
Stddev	.00065	.01698	.00037	.00011	.00005
%RSD	142.03	74.072	290.93	1.7998	.50100
#1	-.00000	.01092	.00039	.00630	.01009
#2	.00092	.03493	-.00013	.00614	.01001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.91299**	**-.00004**	**-.0127**	**-.00015**
Stddev	.00005	.00813	.00011	.0221	.00004
%RSD	42.595	.89051	298.98	173.9	25.133
#1	-.00007	.90724	-.00012	-.0284	-.00013
#2	-.00014	.91874	.00004	.0029	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.02511**	**-.00219**	**.44887**	**-.00098**
Stddev	.00021	.00127	.00066	.01860	.00107
%RSD	168.58	5.0737	29.954	4.1447	108.39
#1	.00002	.02421	-.00266	.46202	-.00174
#2	-.00027	.02601	-.00173	.43571	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-4-A Acquired: 8/28/2017 22:25:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50559**	**.00519**	**.00002**	**1.2718**	**.00057**
Stddev	.00385	.00005	.00003	.0030	.00025
%RSD	.76247	.91099	146.81	.23251	43.919
#1	.50286	.00522	-.00000	1.2739	.00075
#2	.50832	.00515	.00005	1.2697	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00166**	**1.0022**	**-.00069**	**.00414**	**2.7803**
Stddev	.00012	.0031	.00012	.00264	.0120
%RSD	7.2889	.30706	16.803	63.789	.43187
#1	.00174	1.0000	-.00077	.00601	2.7718
#2	.00157	1.0044	-.00061	.00227	2.7888
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.01348**	**.00022**	**-.00130**	**.00030**
Stddev	.00031	.00004	.00029	.00075	.00043
%RSD	1332.1	.26863	133.45	57.381	145.64
#1	-.00020	.01345	.00001	-.00183	.00060
#2	.00024	.01351	.00042	-.00077	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-4-A Acquired: 8/28/2017 22:25:31 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01837
Stddev	.00100
%RSD	5.4382
#1	.01908
#2	.01766
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4141.0	2713.6	21703.	4200.5
Stddev	3.7	.2	25.	5.8
%RSD	.08921	.00613	.11688	.13884
#1	4138.4	2713.4	21685.	4196.3
#2	4143.6	2713.7	21721.	4204.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.57%	101.36%	102.41%	100.33%
Range				

Sample Name: 480-123158-D-5-A Acquired: 8/28/2017 22:29:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00954**	**.01875**	**.08998**	**.02490**
Stddev	.00006	.00807	.00187	.00006	.00008
%RSD	15.330	84.577	9.9753	.06292	.33040
#1	.00033	.00383	.02007	.08994	.02496
#2	.00041	.01525	.01743	.09002	.02484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**13.189**	**-.00012**	**.0057**	**-.00021**
Stddev	.00003	.050	.00018	.0325	.00009
%RSD	11.143	.37720	156.42	565.8	43.422
#1	-.00027	13.224	.00001	-.0172	-.00027
#2	-.00023	13.154	-.00025	.0287	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00036**	**.00513**	**2.3939**	**.00290**
Stddev	.00008	.00012	.00050	.0560	.00047
%RSD	15.265	33.597	9.6519	2.3410	16.063
#1	-.00048	.00045	.00548	2.4335	.00322
#2	-.00060	.00027	.00478	2.3543	.00257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-5-A Acquired: 8/28/2017 22:29:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6993**	**.01828**	**.00419**	**15.955**	**.00011**
Stddev	.0123	.00005	.00001	.069	.00018
%RSD	.45687	.30076	.31955	.43163	169.28
#1	2.7080	.01832	.00418	16.004	.00023
#2	2.6906	.01824	.00420	15.907	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**3.9625**	**-.00167**	**.00393**	**3.8863**
Stddev	.00145	.0077	.00114	.00329	.0078
%RSD	470.85	.19378	68.481	83.638	.19971
#1	.00072	3.9571	-.00086	.00626	3.8917
#2	-.00133	3.9680	-.00247	.00161	3.8808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.05277**	**-.00039**	**-.00013**	**.00059**
Stddev	.00028	.00018	.00021	.00251	.00006
%RSD	107.65	.33714	53.104	1916.8	9.7324
#1	-.00006	.05289	-.00054	.00164	.00063
#2	-.00046	.05264	-.00025	-.00190	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-5-A Acquired: 8/28/2017 22:29:09 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00235
Stddev	.00047
%RSD	19.939
#1	.00268
#2	.00202
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3982.1	2669.0	21112.	4178.8
Stddev	8.8	2.7	97.	23.8
%RSD	.22112	.10029	.46168	.56997
#1	3975.9	2667.1	21043.	4161.9
#2	3988.3	2670.9	21181.	4195.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.713%	99.693%	99.625%	99.811%
Range				

Sample Name: 480-123158-D-6-A Acquired: 8/28/2017 22:32:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.01132**	**.00008**	**.02320**	**.00508**
Stddev	.00067	.01882	.00219	.00004	.00003
%RSD	94.901	166.29	2695.9	.16833	.55802
#1	.00023	-.00199	.00163	.02317	.00506
#2	.00119	.02462	-.00147	.02323	.00510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**30.288**	**.00030**	**-.0080**	**-.00021**
Stddev	.00002	.095	.00003	.0279	.00010
%RSD	11.046	.31356	10.805	347.2	47.186
#1	-.00015	30.356	.00027	.0117	-.00028
#2	-.00013	30.221	.00032	-.0278	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00116**	**-.00149**	**1.6776**	**.00255**
Stddev	.00036	.00011	.00027	.0049	.00018
%RSD	136.27	9.1624	17.867	.28940	6.9657
#1	.00052	.00109	-.00130	1.6811	.00243
#2	.00001	.00124	-.00168	1.6742	.00268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-6-A Acquired: 8/28/2017 22:32:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.533**	**.00055**	**.00043**	**8.1916**	**.00041**
Stddev	.040	.00003	.00014	.0073	.00032
%RSD	.22698	4.5912	33.443	.08949	78.487
#1	17.505	.00056	.00033	8.1967	.00018
#2	17.561	.00053	.00053	8.1864	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**2.0583**	**.00000**	**.00119**	**5.4069**
Stddev	.00030	.0005	.00131	.00519	.0217
%RSD	841.10	.02245	115170.	435.85	.40106
#1	-.00024	2.0587	-.00092	-.00248	5.4222
#2	.00017	2.0580	.00092	.00486	5.3916
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.11039**	**-.00011**	**-.00216**	**.00038**
Stddev	.00021	.00044	.00011	.00205	.00012
%RSD	118.21	.39514	104.97	94.807	31.292
#1	-.00003	.11070	-.00019	-.00071	.00047
#2	-.00033	.11008	-.00003	-.00361	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-6-A Acquired: 8/28/2017 22:32:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00274**
Stddev	.00017
%RSD	6.0526
#1	.00285
#2	.00262
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3884.8**	**2647.9**	**21049.**	**4167.4**
Stddev	4.1	2.2	18.	15.5
%RSD	.10608	.08265	.08387	.37203
#1	3887.7	2646.4	21062.	4156.4
#2	3881.8	2649.5	21037.	4178.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.350%	98.907%	99.330%	99.540%
Range				

Sample Name: 480-123158-D-7-A Acquired: 8/28/2017 22:36:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**-.00691**	**.00202**	**.04962**	**.00351**
Stddev	.00036	.00260	.00069	.00044	.00003
%RSD	72.386	37.585	34.105	.88282	.78580
#1	.00024	-.00875	.00153	.04993	.00353
#2	.00075	-.00507	.00251	.04931	.00349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**39.695**	**.00027**	**-.0170**	**-.00013**
Stddev	.00011	.075	.00003	.0163	.00012
%RSD	54.585	.18910	12.057	95.71	90.538
#1	-.00027	39.748	.00029	-.0055	-.00021
#2	-.00012	39.642	.00024	-.0285	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**-.00039**	**.02445**	**2.1623**	**.00569**
Stddev	.00021	.00023	.00160	.0271	.00129
%RSD	30.221	58.341	6.5558	1.2516	22.687
#1	-.00054	-.00023	.02559	2.1815	.00478
#2	-.00083	-.00055	.02332	2.1432	.00660
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-7-A Acquired: 8/28/2017 22:36:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**44.522**	**.13875**	**-.00025**	**19.473**	**.00121**
Stddev	.088	.00021	.00039	.018	.00053
%RSD	.19756	.14927	158.79	.09418	44.037
#1	44.584	.13861	.00003	19.486	.00158
#2	44.460	.13890	-.00052	19.460	.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**4.6924**	**-.00017**	**.00179**	**9.0075**
Stddev	.00031	.0058	.00086	.00157	.0087
%RSD	15.026	.12435	497.60	87.618	.09685
#1	.00230	4.6965	.00044	.00289	9.0013
#2	.00186	4.6883	-.00078	.00068	9.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.19452**	**.00037**	**.00010**	**-.00095**
Stddev	.00015	.00004	.00027	.00030	.00001
%RSD	29.828	.01826	71.922	313.95	.53746
#1	.00062	.19455	.00018	-.00012	-.00095
#2	.00040	.19450	.00056	.00031	-.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123158-D-7-A Acquired: 8/28/2017 22:36:21 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00186
Stddev	.00021
%RSD	11.039
#1	.00201
#2	.00172
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3760.9	2617.9	20875.	4137.0
Stddev	6.8	5.9	22.	20.2
%RSD	.18031	.22357	.10546	.48913
#1	3765.7	2622.1	20859.	4122.7
#2	3756.1	2613.8	20891.	4151.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.341%	97.785%	98.508%	98.814%
Range				

Sample Name: 480-123169-C-1-A Acquired: 8/28/2017 22:39:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.05175**	**.12382**	**6.3764**	**.99849**
Stddev	.00027	.00837	.00038	.0092	.00191
%RSD	98.047	16.177	.30567	.14400	.19083
#1	.00008	.05767	.12409	6.3829	.99715
#2	.00047	.04583	.12355	6.3700	.99984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**86.344**	**.00030**	**.0018**	**.03711**
Stddev	.00014	.062	.00010	.0147	.00044
%RSD	73.321	.07138	33.714	816.2	1.1876
#1	-.00009	86.300	.00038	.0122	.03742
#2	-.00028	86.387	.00023	-.0086	.03680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02575**	**.00106**	**9.2475**	F **642.02**	**.01200**
Stddev	.00088	.00041	.0252	1.09	.00151
%RSD	3.4102	38.588	.27247	.16933	12.615
#1	.02637	.00077	9.2297	641.25	.01093
#2	.02513	.00135	9.2653	642.78	.01307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-123169-C-1-A Acquired: 8/28/2017 22:39:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**129.26**	**.08889**	**.00354**	**1207.7**	**.33710**
Stddev	.17	.00005	.00001	3.0	.00028
%RSD	.13136	.05393	.24705	.24908	.08190
#1	129.14	.08892	.00355	1205.6	.33691
#2	129.38	.08885	.00354	1209.9	.33730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00266**	**25.757**	**-.00033**	**.00212**	**14.526**
Stddev	.00005	.074	.00039	.00223	.005
%RSD	1.9908	.28733	117.85	105.14	.03706
#1	.00262	25.809	-.00005	.00054	14.522
#2	.00269	25.704	-.00060	.00370	14.529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00550**	**1.0563**	**.05869**	**-.00372**	**.02420**
Stddev	.00080	.0019	.00097	.00067	.00105
%RSD	14.513	.17726	1.6455	18.076	4.3457
#1	.00607	1.0550	.05937	-.00420	.02346
#2	.00494	1.0577	.05800	-.00325	.02495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123169-C-1-A Acquired: 8/28/2017 22:39:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01427**
Stddev	.00016
%RSD	1.1237
#1	.01438
#2	.01416
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2929.3**	**2324.3**	**17826.**	**4083.9**
Stddev	4.4	1.5	12.	13.4
%RSD	.14900	.06573	.06959	.32932
#1	2926.2	2323.2	17835.	4074.4
#2	2932.4	2325.4	17817.	4093.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.144%	86.818%	84.120%	97.546%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:43:40 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50484**	**24.045**	**.50074**	**.51462**	**.49541**
Stddev	.00256	.140	.00096	.00163	.00071
%RSD	.50655	.58304	.19124	.31758	.14387
#1	.50665	24.144	.50142	.51577	.49591
#2	.50303	23.946	.50007	.51346	.49491
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50241**	**24.630**	**.50270**	**.0034**	**.49207**
Stddev	.00205	.024	.00119	.0358	.00042
%RSD	.40754	.09782	.23657	1063.	.08489
#1	.50385	24.647	.50354	-.0220	.49237
#2	.50096	24.613	.50186	.0287	.49178
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50804**	**.50509**	**23.869**	**25.854**	**.51547**
Stddev	.00110	.00050	.054	.083	.00245
%RSD	.21665	.09805	.22756	.31952	.47464
#1	.50882	.50474	23.907	25.913	.51720
#2	.50727	.50544	23.830	25.796	.51374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:43:40 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.990**	**.51093**	**.49980**	**25.631**	**.50034**
Stddev	.031	.00012	.00108	.102	.00135
%RSD	.12545	.02353	.21582	.39737	.27075
#1	25.012	.51085	.50056	25.703	.50129
#2	24.968	.51102	.49904	25.559	.49938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49523**	**25.360**	**.50184**	**.50263**	**24.225**
Stddev	.00378	.055	.00130	.00105	.044
%RSD	.76275	.21639	.25912	.20884	.18362
#1	.49790	25.399	.50276	.50337	24.256
#2	.49256	25.321	.50092	.50189	24.194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51313**	**.50015**	**.49900**	**.50384**	**.50341**
Stddev	.00018	.00287	.00035	.00214	.00010
%RSD	.03529	.57373	.07026	.42465	.01947
#1	.51300	.50218	.49875	.50536	.50335
#2	.51325	.49812	.49925	.50233	.50348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 22:43:40 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50329**
Stddev	.00287
%RSD	.57107
#1	.50532
#2	.50126
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3716.1**	**2635.2**	**20701.**	**4092.2**
Stddev	10.3	8.0	53.	20.2
%RSD	.27697	.30240	.25389	.49411
#1	3708.8	2629.6	20664.	4077.9
#2	3723.4	2640.9	20739.	4106.5

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:47:08 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00190**	**.00009**	**.00452**	**-.00013**
Stddev	.00045	.00589	.00013	.00049	.00003
%RSD	309.46	310.06	143.48	10.759	21.062
#1	-.00046	-.00227	-.00000	.00486	-.00015
#2	.00017	.00607	.00019	.00417	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00376**	**-.00021**	**-.0115**	**.00002**
Stddev	.00006	.00038	.00007	.0141	.00004
%RSD	49.553	10.052	34.769	122.0	193.43
#1	-.00016	-.00403	-.00016	-.0215	.00004
#2	-.00007	-.00350	-.00026	-.0016	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00070**	**-.00568**	**.07654**	**-.00139**
Stddev	.00035	.00115	.00033	.04639	.00119
%RSD	4854.6	164.43	5.8402	60.603	85.418
#1	.00024	.00151	-.00545	.04374	-.00223
#2	-.00025	-.00011	-.00592	.10934	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:47:08 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00726**	**-.00005**	**-.00026**	**.06380**	**-.00007**
Stddev	.00476	.00003	.00024	.01038	.00013
%RSD	65.651	46.623	95.076	16.269	199.08
#1	-.00389	-.00004	-.00008	.07114	-.00016
#2	-.01062	-.00007	-.00043	.05646	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00093**	**-.00606**	**-.00071**	**.00126**	**.00825**
Stddev	.00074	.00147	.00005	.00180	.00337
%RSD	79.059	24.196	7.5739	142.34	40.817
#1	-.00041	-.00502	-.00074	.00253	.00587
#2	-.00145	-.00709	-.00067	-.00001	.01063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**-.00009**	**.00040**	**-.00107**	**.00030**
Stddev	.00018	.00013	.00012	.00018	.00015
%RSD	71.539	148.02	30.135	17.162	49.056
#1	.00038	.00000	.00048	-.00094	.00041
#2	.00012	-.00018	.00031	-.00120	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 22:47:08 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.00037**
Stddev	.00001
%RSD	1.4618
#1	.00037
#2	.00037
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4136.0**	**2684.4**	**21472.**	**4116.5**
Stddev	25.8	14.8	59.	7.0
%RSD	.62380	.55265	.27244	.17033
#1	4117.7	2673.9	21431.	4111.5
#2	4154.2	2694.9	21514.	4121.5

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:50:48 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00579**	**.20021**	**.01447**	**.02285**	**.00200**
Stddev	.00032	.01975	.00381	.00010	.00001
%RSD	5.4754	9.8651	26.361	.42055	.57124
#1	.00556	.18624	.01177	.02278	.00200
#2	.00601	.21417	.01717	.02292	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**.49193**	**.00183**	**.0051**	**.00372**
Stddev	.00008	.00281	.00007	.0223	.00009
%RSD	4.1240	.57092	3.7985	441.0	2.5320
#1	.00195	.49392	.00188	.0209	.00379
#2	.00184	.48995	.00178	-.0107	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00410**	**.01082**	**.04680**	**.58983**	**.02900**
Stddev	.00008	.00079	.00249	.00201	.00203
%RSD	1.8497	7.2609	5.3173	.34102	6.9851
#1	.00405	.01137	.04856	.58840	.02757
#2	.00416	.01026	.04505	.59125	.03043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:50:48 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19881**	**.00305**	**.00964**	**1.0629**	**.00934**
Stddev	.00131	.00009	.00009	.0095	.00029
%RSD	.65728	2.8456	.94815	.89528	3.0896
#1	.19788	.00299	.00957	1.0696	.00955
#2	.19973	.00311	.00970	1.0561	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00946**	**.19192**	**.01982**	**.02636**	**.48891**
Stddev	.00045	.00215	.00060	.00129	.00227
%RSD	4.7732	1.1189	3.0308	4.8771	.46387
#1	.00914	.19344	.01940	.02545	.48731
#2	.00978	.19040	.02025	.02726	.49051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00969**	**.00483**	**.00509**	**.01869**	**.00505**
Stddev	.00049	.00005	.00013	.00005	.00025
%RSD	5.0277	1.0796	2.5433	.27836	4.9883
#1	.01004	.00487	.00500	.01865	.00523
#2	.00935	.00480	.00519	.01873	.00487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 22:50:48 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01075
Stddev	.00043
%RSD	4.0036
#1	.01105
#2	.01045
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4127.1	2697.4	21616.	4154.5
Stddev	.9	5.3	56.	23.3
%RSD	.02183	.19611	.25860	.56077
#1	4127.8	2701.1	21576.	4138.1
#2	4126.5	2693.6	21655.	4171.0

Sample Name: 480-123168-C-1-A Acquired: 8/28/2017 22:54:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.14333**	**.04533**	**5.0522**	**.31774**
Stddev	.00016	.00193	.00049	.0005	.00105
%RSD	32.155	1.3469	1.0910	.00955	.32946
#1	-.00038	.14470	.04568	5.0525	.31700
#2	-.00060	.14197	.04498	5.0518	.31848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**56.547**	**.00014**	**-.0043**	**.01341**
Stddev	.00004	.589	.00000	.0326	.00001
%RSD	30.544	1.0411	.82718	765.7	.08846
#1	-.00009	56.130	.00014	-.0273	.01342
#2	-.00014	56.963	.00014	.0188	.01341
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03746**	**.03330**	**3.0113**	**235.25**	**.08629**
Stddev	.00016	.00100	.0158	2.14	.00181
%RSD	.43118	3.0178	.52503	.90926	2.0957
#1	.03734	.03401	3.0001	233.73	.08501
#2	.03757	.03259	3.0225	236.76	.08757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-C-1-A Acquired: 8/28/2017 22:54:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**82.680**	**.19312**	**.01007**	**840.48**	**.13386**
Stddev	.158	.00114	.00007	8.07	.00006
%RSD	.19118	.59240	.67952	.96021	.04269
#1	82.568	.19231	.01002	834.77	.13382
#2	82.791	.19393	.01012	846.18	.13390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00456**	**31.702**	**.01204**	**.00140**	**13.718**
Stddev	.00211	.044	.00125	.00070	.161
%RSD	46.383	.14005	10.381	49.812	1.1760
#1	.00605	31.733	.01293	.00091	13.603
#2	.00306	31.670	.01116	.00189	13.832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00839**	**.41322**	**.03647**	**-.00191**	**.01761**
Stddev	.00000	.00423	.00003	.00026	.00001
%RSD	.05569	1.0245	.09506	13.413	.07300
#1	.00839	.41023	.03650	-.00209	.01760
#2	.00840	.41621	.03645	-.00173	.01762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-C-1-A Acquired: 8/28/2017 22:54:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03254
Stddev	.00009
%RSD	.26717
#1	.03247
#2	.03260
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3114.3	2419.9	18670.	4108.6
Stddev	.9	1.4	46.	46.3
%RSD	.02893	.05644	.24484	1.1272
#1	3114.9	2418.9	18703.	4141.3
#2	3113.7	2420.9	18638.	4075.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.638%	90.389%	88.105%	98.135%
Range				

Sample Name: 480-123168-C-2-A Acquired: 8/28/2017 22:58:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00053**	**1.7710**	**.04540**	**4.8576**	**.30273**
Stddev	.00035	.0047	.00179	.0071	.00016
%RSD	66.391	.26686	3.9493	.14541	.05358
#1	-.00028	1.7677	.04667	4.8526	.30262
#2	-.00078	1.7743	.04413	4.8626	.30285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**54.808**	**.00041**	**.0103**	**.01438**
Stddev	.00002	.273	.00001	.0276	.00004
%RSD	42.493	.49892	2.6020	268.2	.24948
#1	-.00002	54.615	.00040	.0298	.01435
#2	-.00005	55.001	.00041	-.0092	.01440
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04455**	**.00676**	**7.8307**	**222.13**	**.08337**
Stddev	.00023	.00016	.0360	.65	.00050
%RSD	.51605	2.3037	.46038	.29442	.60467
#1	.04438	.00687	7.8053	221.67	.08373
#2	.04471	.00665	7.8562	222.60	.08301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-C-2-A Acquired: 8/28/2017 22:58:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**75.917**	**.24558**	**.01424**	**788.31**	**.13155**
Stddev	.126	.00022	.00001	2.50	.00014
%RSD	.16555	.08773	.06910	.31738	.10301
#1	75.828	.24543	.01425	786.54	.13165
#2	76.005	.24573	.01423	790.08	.13146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00788**	**27.585**	**.01140**	**.00526**	**15.925**
Stddev	.00138	.014	.00081	.00044	.089
%RSD	17.545	.04983	7.1124	8.3388	.55977
#1	.00690	27.575	.01082	.00495	15.861
#2	.00886	27.594	.01197	.00557	15.988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01547**	**.37024**	**.07914**	**-.00164**	**.02529**
Stddev	.00050	.00178	.00099	.00014	.00051
%RSD	3.2006	.48168	1.2571	8.3433	2.0097
#1	.01582	.36898	.07984	-.00173	.02565
#2	.01512	.37150	.07843	-.00154	.02494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-C-2-A Acquired: 8/28/2017 22:58:04 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.08881
Stddev	.00004
%RSD	.04977
#1	.08877
#2	.08884
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3132.8	2437.8	18809.	4109.9
Stddev	3.7	2.5	13.	27.9
%RSD	.11654	.10112	.06800	.67829
#1	3135.3	2439.5	18818.	4129.6
#2	3130.2	2436.1	18800.	4090.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.086%	91.058%	88.759%	98.166%
Range				

Sample Name: 480-123168-C-3-A Acquired: 8/28/2017 23:01:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00075**	**.28429**	**.09045**	**9.9206**	**.87629**
Stddev	.00017	.00120	.00358	.0025	.00511
%RSD	22.433	.42354	3.9621	.02527	.58355
#1	-.00063	.28514	.09299	9.9224	.87267
#2	-.00087	.28344	.08792	9.9189	.87990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**52.705**	**.00066**	**-.0196**	**.04583**
Stddev	.00004	.208	.00020	.0167	.00010
%RSD	45.184	.39504	30.391	85.67	.22203
#1	-.00007	52.558	.00052	-.0077	.04575
#2	-.00013	52.853	.00080	-.0314	.04590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25009**	**.00470**	**4.5715**	F **621.45**	**.19406**
Stddev	.00076	.00118	.0388	1.84	.00363
%RSD	.30317	25.164	.84774	.29655	1.8701
#1	.25062	.00554	4.5441	620.15	.19150
#2	.24955	.00386	4.5989	622.75	.19663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-123168-C-3-A Acquired: 8/28/2017 23:01:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**126.52**	**.12951**	**.01094**	**2025.7**	**.38695**
Stddev	.27	.00069	.00001	9.5	.00027
%RSD	.20961	.53261	.04796	.46934	.06903
#1	126.71	.13000	.01094	2019.0	.38676
#2	126.34	.12902	.01093	2032.4	.38714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00881**	**46.690**	**.01873**	**.00523**	**27.109**
Stddev	.00280	.062	.00073	.00540	.128
%RSD	31.788	.13329	3.9040	103.19	.47295
#1	.00683	46.734	.01925	.00141	27.019
#2	.01079	46.646	.01821	.00905	27.200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04087**	**.54481**	**.23931**	**-.00452**	**.08312**
Stddev	.00201	.00084	.00058	.00146	.00026
%RSD	4.9249	.15392	.24205	32.380	.31146
#1	.04229	.54422	.23972	-.00556	.08330
#2	.03945	.54540	.23890	-.00349	.08294
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123168-C-3-A Acquired: 8/28/2017 23:01:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.40852**
Stddev	.00142
%RSD	.34639
#1	.40752
#2	.40952
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2812.6**	**2280.4**	**17256.**	**3987.5**
Stddev	.2	.0	42.	.5
%RSD	.00578	.00105	.24480	.01244
#1	2812.7	2280.4	17227.	3987.2
#2	2812.5	2280.4	17286.	3987.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.310%	85.178%	81.432%	95.243%
Range				

Sample Name: mb 480-373988/1-a Acquired: 8/28/2017 23:05:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.01277**	**-.00036**	**.01766**	**-.00006**
Stddev	.00152	.00508	.00065	.00165	.00000
%RSD	750.74	39.818	179.62	9.3349	.80808
#1	-.00128	.00917	-.00083	.01882	-.00006
#2	.00087	.01636	.00010	.01649	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.03127**	**-.00015**	**-.0234**	**-.00001**
Stddev	.00000	.00116	.00007	.0078	.00002
%RSD	1.1625	3.6959	45.855	33.39	293.99
#1	-.00023	.03045	-.00019	-.0179	.00001
#2	-.00024	.03209	-.00010	-.0289	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00052**	**-.00502**	**.37483**	**.00037**
Stddev	.00027	.00002	.00088	.07085	.00103
%RSD	201.49	3.7974	17.491	18.903	279.47
#1	.00006	-.00053	-.00565	.42493	.00109
#2	-.00033	-.00050	-.00440	.32473	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-373988/1-a Acquired: 8/28/2017 23:05:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00278**	**.00159**	**-.00049**	**.24459**	**.00006**
Stddev	.00076	.00002	.00010	.00646	.00011
%RSD	27.208	1.2282	20.468	2.6432	171.97
#1	-.00331	.00161	-.00056	.24916	.00014
#2	-.00224	.00158	-.00042	.24002	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00125**	**.00549**	**.00060**	**.00441**	**.06731**
Stddev	.00009	.00066	.00024	.00017	.01072
%RSD	7.1810	12.112	40.593	3.8407	15.924
#1	-.00131	.00502	.00043	.00429	.07489
#2	-.00118	.00596	.00077	.00453	.05973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00020**	**.00015**	**-.00126**	**.00002**
Stddev	.00026	.00001	.00018	.00180	.00069
%RSD	351.60	3.2238	121.33	142.85	3035.0
#1	.00026	.00020	.00027	.00001	-.00047
#2	-.00011	.00019	.00002	-.00254	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-373988/1-a Acquired: 8/28/2017 23:05:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00023**
Stddev	.00037
%RSD	160.81
#1	-.00003
#2	.00049
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4192.2**	**2718.3**	**21803.**	**4202.9**
Stddev	.2	.4	28.	10.8
%RSD	.00368	.01507	.12822	.25688
#1	4192.1	2718.0	21823.	4210.5
#2	4192.3	2718.6	21783.	4195.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.82%	101.53%	102.89%	100.39%
Range				

Sample Name: lcs 480-373988/2-a Acquired: 8/28/2017 23:09:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04589**	F **8.3495**	**.20036**	**.18754**	**.17644**
Stddev	.00017	.0127	.00082	.00051	.00011
%RSD	.36666	.15256	.40749	.27324	.06403
#1	.04601	8.3405	.20093	.18717	.17652
#2	.04577	8.3585	.19978	.18790	.17636
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		11.500			
Low Limit		8.5000			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20065**	**9.7523**	**.20528**	**-.0036**	**.19023**
Stddev	.00083	.0343	.00008	.0068	.00022
%RSD	.41477	.35163	.03741	187.1	.11307
#1	.20007	9.7281	.20522	-.0084	.19038
#2	.20124	9.7766	.20533	.0012	.19008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19766**	**.20809**	**9.9716**	**8.8851**	**.17565**
Stddev	.00129	.00127	.0400	.0077	.00057
%RSD	.65351	.61233	.40134	.08675	.32688
#1	.19857	.20899	9.9433	8.8796	.17606
#2	.19675	.20719	9.9999	8.8905	.17525
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-373988/2-a Acquired: 8/28/2017 23:09:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.338**	**.21128**	**.20228**	**8.6452**	**.19583**
Stddev	.014	.00031	.00032	.0008	.00140
%RSD	.13436	.14737	.15964	.00988	.71667
#1	10.328	.21150	.20205	8.6458	.19682
#2	10.347	.21106	.20250	8.6446	.19484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20222**	**9.9914**	**.20178**	**.20185**	**9.8663**
Stddev	.00039	.0115	.00127	.00090	.0638
%RSD	.19041	.11515	.63137	.44509	.64669
#1	.20249	9.9833	.20268	.20122	9.8212
#2	.20195	9.9995	.20088	.20249	9.9114
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18202**	F **.16823**	**.19725**	**.20190**	**.20418**
Stddev	.00031	.00026	.00038	.00024	.00057
%RSD	.16854	.15244	.19139	.11724	.27980
#1	.18224	.16805	.19698	.20207	.20378
#2	.18180	.16841	.19752	.20173	.20459
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.23000			
Low Limit		.17000			

Sample Name: lcs 480-373988/2-a Acquired: 8/28/2017 23:09:03 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20465**
Stddev	.00014
%RSD	.07032
#1	.20455
#2	.20475
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3948.7**	**2697.0**	**21392.**	**4199.9**
Stddev	3.4	.9	36.	21.5
%RSD	.08621	.03282	.16687	.51122
#1	3946.3	2696.4	21417.	4215.1
#2	3951.1	2697.6	21367.	4184.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.902%	100.74%	100.95%	100.32%
Range				

Sample Name: lcsd 480-373988/3-a Acquired: 8/28/2017 23:12:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04631	9.8978	.20309	.21597	.20728
Stddev	.00013	.0719	.00003	.00009	.00015
%RSD	.27099	.72658	.01270	.04385	.07475
#1	.04622	9.9486	.20311	.21590	.20739
#2	.04640	9.8469	.20307	.21603	.20717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20220	9.8133	.20508	-.0235	.19043
Stddev	.00084	.0349	.00062	.0101	.00027
%RSD	.41626	.35534	.30296	42.85	.14249
#1	.20279	9.8380	.20552	-.0164	.19062
#2	.20160	9.7887	.20464	-.0306	.19024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19903	.20715	9.9821	10.353	.20796
Stddev	.00034	.00012	.0050	.014	.00018
%RSD	.17104	.05657	.04975	.13381	.08580
#1	.19879	.20724	9.9786	10.363	.20784
#2	.19927	.20707	9.9857	10.343	.20809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-373988/3-a Acquired: 8/28/2017 23:12:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.307**	**.21131**	**.20254**	**10.176**	**.19582**
Stddev	.019	.00039	.00088	.038	.00049
%RSD	.18405	.18511	.43288	.37787	.24873
#1	10.320	.21103	.20316	10.203	.19548
#2	10.293	.21159	.20192	10.148	.19617
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20201**	**10.009**	**.20216**	**.20055**	**9.8913**
Stddev	.00164	.016	.00061	.00017	.0006
%RSD	.81116	.15814	.30352	.08290	.00650
#1	.20317	10.020	.20172	.20067	9.8909
#2	.20085	9.9977	.20259	.20043	9.8918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18150**	**.20010**	**.19642**	**.20033**	**.20453**
Stddev	.00051	.00158	.00084	.00067	.00017
%RSD	.27937	.78754	.42848	.33225	.08219
#1	.18186	.20121	.19702	.20080	.20464
#2	.18114	.19898	.19583	.19986	.20441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcsd 480-373988/3-a Acquired: 8/28/2017 23:12:29 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20349
Stddev	.00058
%RSD	.28388
#1	.20308
#2	.20390
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3938.0	2692.9	21267.	4185.3
Stddev	.7	3.8	38.	2.1
%RSD	.01709	.14000	.17844	.05137
#1	3938.5	2690.2	21240.	4186.8
#2	3937.6	2695.5	21293.	4183.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.644%	100.58%	100.36%	99.968%
Range				

Sample Name: 480-123173-b-1-b Acquired: 8/28/2017 23:15:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00079**	**.04468**	**.00167**	**.02606**	**.04049**
Stddev	.00109	.01060	.00106	.00052	.00007
%RSD	139.14	23.721	63.208	1.9763	.18039
#1	-.00001	.03719	.00093	.02642	.04044
#2	-.00156	.05218	.00242	.02570	.04054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**69.590**	**.00009**	**.0149**	**.00039**
Stddev	.00019	.126	.00010	.0114	.00000
%RSD	111.33	.18130	113.04	76.74	.03505
#1	-.00004	69.679	.00002	.0068	.00039
#2	-.00031	69.501	.00015	.0230	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00065**	**.00005**	**.03856**	**1.1822**	**-.00093**
Stddev	.00039	.00052	.00017	.0658	.00067
%RSD	60.268	958.05	.44802	5.5650	72.194
#1	-.00092	-.00032	.03868	1.2287	-.00045
#2	-.00037	.00043	.03843	1.1357	-.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-b Acquired: 8/28/2017 23:15:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.859**	**.18949**	**.00146**	**11.334**	**.00083**
Stddev	.087	.00052	.00005	.043	.00007
%RSD	.32410	.27368	3.3942	.37911	8.9002
#1	26.797	.18912	.00149	11.364	.00088
#2	26.920	.18985	.00142	11.303	.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**13.117**	**-.00038**	**.00106**	**4.2388**
Stddev	.00047	.014	.00044	.00094	.0040
%RSD	84.711	.10906	117.15	89.056	.09335
#1	.00088	13.127	-.00069	.00039	4.2415
#2	.00022	13.107	-.00006	.00172	4.2360
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.08117**	**.00029**	**-.00217**	**-.00050**
Stddev	.00023	.00040	.00001	.00032	.00046
%RSD	90.950	.49065	4.5820	14.916	91.535
#1	-.00009	.08145	.00030	-.00240	-.00018
#2	-.00042	.08089	.00028	-.00194	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-b Acquired: 8/28/2017 23:15:55 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00856
Stddev	.00003
%RSD	.34724
#1	.00854
#2	.00858
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3785.3	2612.3	20683.	4112.1
Stddev	5.7	1.0	69.	4.7
%RSD	.15034	.03695	.33553	.11382
#1	3781.3	2611.6	20732.	4115.4
#2	3789.4	2613.0	20634.	4108.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.935%	97.577%	97.603%	98.220%
Range				

Sample Name: 480-123173-b-1-bPDS Acquired: 8/28/2017 23:19:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05024**	**9.6861**	**.20693**	**.22930**	**.24054**
Stddev	.00126	.0584	.00183	.00062	.00023
%RSD	2.5126	.60276	.88564	.27192	.09645
#1	.05113	9.7274	.20564	.22974	.24071
#2	.04935	9.6448	.20823	.22886	.24038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20646**	**76.734**	**.21183**	**-.0108**	**.19672**
Stddev	.00095	.732	.00014	.0035	.00044
%RSD	.45774	.95404	.06608	32.51	.22269
#1	.20713	77.252	.21173	-.0132	.19641
#2	.20579	76.217	.21193	-.0083	.19703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20373**	**.20987**	**10.113**	**11.272**	**.20359**
Stddev	.00029	.00117	.062	.006	.00232
%RSD	.14081	.55854	.61736	.05017	1.1417
#1	.20393	.21070	10.157	11.276	.20523
#2	.20352	.20905	10.069	11.268	.20194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-bPDS Acquired: 8/28/2017 23:19:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.304**	**.38994**	**.20282**	**20.870**	**.20035**
Stddev	.006	.00170	.00024	.194	.00059
%RSD	.01556	.43590	.11723	.93022	.29468
#1	36.308	.39114	.20266	21.007	.20077
#2	36.300	.38874	.20299	20.733	.19993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21096**	**23.146**	**.21554**	**.20820**	**13.855**
Stddev	.00130	.005	.00006	.00158	.120
%RSD	.61480	.02229	.02663	.75895	.86254
#1	.21004	23.150	.21550	.20932	13.940
#2	.21188	23.143	.21558	.20708	13.771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20229**	**.27176**	**.20220**	**.20735**	**.20771**
Stddev	.00016	.00272	.00034	.00118	.00072
%RSD	.08103	1.0027	.16785	.56891	.34478
#1	.20241	.27369	.20196	.20652	.20822
#2	.20218	.26984	.20244	.20819	.20720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-bPDS Acquired: 8/28/2017 23:19:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20794**
Stddev	.00023
%RSD	.10926
#1	.20810
#2	.20778
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3678.3**	**2616.1**	**20685.**	**4143.8**
Stddev	3.7	3.8	15.	27.2
%RSD	.10160	.14434	.07152	.65716
#1	3675.7	2613.5	20695.	4124.6
#2	3681.0	2618.8	20675.	4163.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.336%	97.719%	97.611%	98.977%
Range				

Sample Name: 480-123173-b-1-bSD@5 Acquired: 8/28/2017 23:22:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.01594**	**.00136**	**.00774**	**.00799**
Stddev	.00010	.02615	.00093	.00015	.00003
%RSD	17.513	164.07	68.695	1.9317	.38457
#1	.00049	.03444	.00070	.00785	.00797
#2	.00063	-.00255	.00202	.00764	.00801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**13.537**	**-.00016**	**.0274**	**.00013**
Stddev	.00004	.067	.00013	.0108	.00009
%RSD	32.217	.49824	81.964	39.44	75.091
#1	-.00011	13.584	-.00007	.0197	.00006
#2	-.00017	13.489	-.00025	.0350	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.00027**	**.00269**	**.22793**	**.00008**
Stddev	.00073	.00011	.00010	.06627	.00202
%RSD	142.31	40.680	3.6182	29.074	2612.6
#1	-.00102	.00019	.00262	.18107	-.00135
#2	.00000	.00034	.00276	.27479	.00151
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-bSD@5 Acquired: 8/28/2017 23:22:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2201**	**.03749**	**.00006**	**2.2534**	**.00038**
Stddev	.0005	.00014	.00005	.0063	.00003
%RSD	.00874	.36907	90.660	.28006	8.2360
#1	5.2204	.03759	.00002	2.2578	.00040
#2	5.2198	.03739	.00010	2.2489	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**2.4670**	**-.00065**	**.00259**	**.80998**
Stddev	.00066	.0016	.00096	.00080	.01000
%RSD	81.260	.06584	148.81	30.996	1.2342
#1	-.00035	2.4682	.00003	.00315	.81705
#2	-.00128	2.4659	-.00132	.00202	.80291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.01574**	**-.00025**	**-.00082**	**.00006**
Stddev	.00004	.00003	.00010	.00122	.00039
%RSD	10.735	.18999	38.425	149.71	669.31
#1	.00038	.01572	-.00018	-.00168	-.00022
#2	.00033	.01576	-.00032	.00005	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-bSD@5 Acquired: 8/28/2017 23:22:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00720**
Stddev	.00033
%RSD	4.6008
#1	.00697
#2	.00744
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4018.8**	**2663.3**	**21148.**	**4121.2**
Stddev	3.9	1.6	33.	30.2
%RSD	.09818	.06021	.15532	.73221
#1	4016.0	2662.1	21171.	4099.9
#2	4021.6	2664.4	21124.	4142.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.605%	99.480%	99.795%	98.436%
Range				

Sample Name: CCV-4198708 Acquired: 8/28/2017 23:26:32 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50282**	**23.881**	**.50359**	**.50970**	**.49990**
Stddev	.00163	.040	.00037	.00143	.00225
%RSD	.32371	.16865	.07327	.28110	.44949
#1	.50167	23.853	.50333	.50868	.49831
#2	.50397	23.910	.50385	.51071	.50149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50348**	**24.459**	**.50242**	**-.0055**	**.49244**
Stddev	.00004	.065	.00040	.0212	.00028
%RSD	.00815	.26667	.07866	381.7	.05681
#1	.50345	24.413	.50214	-.0205	.49224
#2	.50351	24.505	.50270	.0094	.49263
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50244**	**.51671**	**23.652**	**25.895**	**.51635**
Stddev	.00176	.00290	.068	.005	.00064
%RSD	.35100	.56176	.28610	.01996	.12373
#1	.50119	.51877	23.605	25.898	.51590
#2	.50369	.51466	23.700	25.891	.51680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 23:26:32 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.053**	**.51518**	**.49616**	**25.552**	**.50142**
Stddev	.012	.00141	.00100	.009	.00044
%RSD	.04698	.27363	.20196	.03575	.08811
#1	25.061	.51418	.49546	25.546	.50173
#2	25.044	.51617	.49687	25.559	.50110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49425**	**25.324**	**.50092**	**.49437**	**23.788**
Stddev	.00208	.037	.00013	.00073	.015
%RSD	.42097	.14514	.02542	.14677	.06493
#1	.49278	25.298	.50083	.49386	23.799
#2	.49572	25.350	.50101	.49488	23.777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51310**	**.49860**	**.49563**	**.49914**	**.49996**
Stddev	.00246	.00086	.00137	.00048	.00146
%RSD	.47849	.17179	.27542	.09549	.29106
#1	.51136	.49799	.49467	.49881	.49893
#2	.51484	.49921	.49660	.49948	.50099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/28/2017 23:26:32 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50404
Stddev	.00134
%RSD	.26630
#1	.50309
#2	.50499
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3723.2	2645.1	20691.	4110.1
Stddev	5.2	4.9	43.	13.6
%RSD	.14013	.18459	.20855	.33112
#1	3726.9	2648.6	20721.	4119.8
#2	3719.5	2641.7	20660.	4100.5

Sample Name: CCB-4204839 Acquired: 8/28/2017 23:30:00 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**-.00362**	**.00157**	**.00260**	**-.00012**
Stddev	.00004	.01101	.00237	.00026	.00002
%RSD	6.2179	304.41	150.67	10.087	16.237
#1	.00061	.00417	.00325	.00279	-.00013
#2	.00067	-.01141	-.00010	.00241	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00463**	**-.00021**	**.0134**	**-.00008**
Stddev	.00004	.00445	.00009	.0173	.00009
%RSD	21.845	96.079	41.750	128.7	106.31
#1	-.00015	-.00778	-.00027	.0012	-.00014
#2	-.00020	-.00148	-.00015	.0256	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00023**	**-.00676**	**.05885**	**-.00163**
Stddev	.00060	.00026	.00018	.02677	.00071
%RSD	168.16	113.23	2.6464	45.486	43.842
#1	-.00078	.00005	-.00663	.07777	-.00213
#2	.00007	.00041	-.00688	.03992	-.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 23:30:00 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00635**	**-.00010**	**-.00022**	**.03909**	**.00002**
Stddev	.00111	.00006	.00025	.00564	.00028
%RSD	17.541	63.569	114.42	14.433	1197.7
#1	-.00556	-.00015	-.00040	.04307	.00023
#2	-.00713	-.00006	-.00004	.03510	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**-.00264**	**.00050**	**.00383**	**-.00551**
Stddev	.00065	.00098	.00013	.00229	.00981
%RSD	89.746	37.270	26.569	59.833	177.92
#1	-.00026	-.00334	.00041	.00545	.00142
#2	-.00118	-.00195	.00060	.00221	-.01245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00001**	**.00053**	**.00014**	**.00036**
Stddev	.00045	.00002	.00059	.00036	.00004
%RSD	139.82	330.70	111.15	249.36	11.013
#1	-.00065	-.00001	.00095	.00039	.00033
#2	-.00000	.00002	.00011	-.00011	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/28/2017 23:30:00 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00034
Stddev	.00026
%RSD	77.184
#1	.00053
#2	.00016
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4170.4	2712.1	21527.	4081.9
Stddev	7.8	.3	176.	23.1
%RSD	.18641	.00953	.81760	.56564
#1	4175.9	2711.9	21403.	4098.2
#2	4164.9	2712.3	21652.	4065.6

Sample Name: CCVL-4195955 Acquired: 8/28/2017 23:33:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00595**	**.17968**	**.01501**	**.02237**	**.00200**
Stddev	.00060	.00854	.00098	.00024	.00000
%RSD	10.090	4.7508	6.5511	1.0742	.23228
#1	.00638	.17364	.01432	.02254	.00200
#2	.00553	.18571	.01571	.02220	.00199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**.48332**	**.00197**	**-.0058**	**.00393**
Stddev	.00003	.00418	.00021	.0171	.00006
%RSD	1.8296	.86398	10.550	293.7	1.5006
#1	.00182	.48037	.00211	-.0179	.00397
#2	.00187	.48628	.00182	.0063	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00397**	**.01027**	**.04214**	**.60158**	**.02958**
Stddev	.00022	.00089	.00031	.01974	.00193
%RSD	5.6197	8.6210	.72830	3.2817	6.5225
#1	.00413	.01090	.04192	.58762	.02822
#2	.00381	.00965	.04236	.61554	.03095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 23:33:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19936**	**.00300**	**.00962**	**1.0607**	**.00978**
Stddev	.00609	.00005	.00005	.0118	.00011
%RSD	3.0567	1.7488	.53990	1.1130	1.1204
#1	.19505	.00304	.00958	1.0524	.00986
#2	.20367	.00297	.00965	1.0691	.00970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00946**	**.19077**	**.01894**	**.02571**	**.48494**
Stddev	.00199	.00128	.00181	.00310	.01222
%RSD	21.002	.67156	9.5797	12.058	2.5205
#1	.00806	.19167	.02023	.02790	.47629
#2	.01087	.18986	.01766	.02351	.49358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00943**	**.00496**	**.00493**	**.01771**	**.00511**
Stddev	.00003	.00014	.00032	.00104	.00027
%RSD	.35962	2.7569	6.4524	5.8784	5.2429
#1	.00941	.00487	.00515	.01844	.00492
#2	.00946	.00506	.00470	.01697	.00530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/28/2017 23:33:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01070
Stddev	.00000
%RSD	.02911
#1	.01070
#2	.01071
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4155.6	2717.4	21616.	4150.0
Stddev	4.0	3.8	66.	28.2
%RSD	.09700	.14071	.30446	.67853
#1	4158.5	2720.1	21570.	4169.9
#2	4152.8	2714.7	21663.	4130.1

Sample Name: 480-123173-b-1-c ms Acquired: 8/28/2017 23:37:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04678**	**9.7678**	**.20735**	**.22814**	**.24330**
Stddev	.00064	.0304	.00165	.00049	.00015
%RSD	1.3746	.31119	.79528	.21388	.06305
#1	.04723	9.7464	.20618	.22779	.24341
#2	.04633	9.7893	.20852	.22848	.24320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20376**	**77.198**	**.20743**	**-.0107**	**.19401**
Stddev	.00033	.256	.00004	.0369	.00001
%RSD	.16214	.33183	.01835	343.4	.00413
#1	.20399	77.017	.20740	.0154	.19401
#2	.20353	77.379	.20745	-.0369	.19400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19801**	**.20895**	**9.9417**	**11.317**	**.20657**
Stddev	.00032	.00064	.0042	.013	.00070
%RSD	.15968	.30594	.04221	.11726	.33867
#1	.19823	.20850	9.9446	11.307	.20706
#2	.19778	.20941	9.9387	11.326	.20607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-c ms Acquired: 8/28/2017 23:37:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.343**	**.39085**	**.20452**	**21.033**	**.19999**
Stddev	.026	.00043	.00013	.036	.00040
%RSD	.07153	.11032	.06298	.17259	.19881
#1	36.325	.39054	.20443	21.007	.20027
#2	36.362	.39115	.20461	21.059	.19971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20779**	**23.146**	**.20440**	**.20312**	**13.948**
Stddev	.00010	.020	.00279	.00099	.088
%RSD	.04755	.08778	1.3670	.48588	.62917
#1	.20772	23.132	.20637	.20242	13.886
#2	.20786	23.161	.20242	.20382	14.010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18902**	**.27461**	**.19864**	**.20103**	**.20366**
Stddev	.00024	.00144	.00020	.00119	.00065
%RSD	.12504	.52369	.10118	.58950	.32121
#1	.18919	.27359	.19878	.20187	.20413
#2	.18886	.27562	.19849	.20020	.20320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-c ms Acquired: 8/28/2017 23:37:17 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20187**
Stddev	.00036
%RSD	.17822
#1	.20162
#2	.20213
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3683.1**	**2625.9**	**20741.**	**4164.3**
Stddev	.8	.5	26.	1.0
%RSD	.02152	.02074	.12679	.02434
#1	3683.7	2626.3	20759.	4165.1
#2	3682.5	2625.6	20722.	4163.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.452%	98.085%	97.874%	99.467%
Range				

Sample Name: 480-123173-b-1-d msd Acquired: 8/28/2017 23:40:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04623**	**9.9166**	**.20355**	**.22943**	**.24608**
Stddev	.00091	.0391	.00209	.00056	.00100
%RSD	1.9677	.39384	1.0289	.24413	.40689
#1	.04688	9.8890	.20207	.22903	.24679
#2	.04559	9.9442	.20504	.22982	.24537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20315**	**75.596**	**.20659**	**-.0026**	**.19351**
Stddev	.00060	.166	.00005	.0194	.00007
%RSD	.29757	.21914	.02390	744.9	.03775
#1	.20272	75.478	.20662	.0111	.19346
#2	.20357	75.713	.20655	-.0163	.19356
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19460**	**.20931**	**9.9043**	**11.435**	**.20925**
Stddev	.00019	.00223	.0298	.026	.00099
%RSD	.09624	1.0638	.30131	.22758	.47185
#1	.19447	.21088	9.9254	11.453	.20855
#2	.19474	.20774	9.8832	11.417	.20995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-d msd Acquired: 8/28/2017 23:40:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.766**	**.38634**	**.20258**	**20.946**	**.19971**
Stddev	.136	.00160	.00006	.085	.00102
%RSD	.38144	.41394	.02967	.40428	.51247
#1	35.863	.38747	.20262	20.886	.19899
#2	35.670	.38521	.20254	21.006	.20043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20628**	**22.787**	**.20244**	**.20308**	**13.795**
Stddev	.00004	.010	.00008	.00470	.018
%RSD	.01813	.04174	.03952	2.3130	.12719
#1	.20630	22.781	.20238	.20640	13.783
#2	.20625	22.794	.20250	.19976	13.807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18865**	**.27481**	**.19777**	**.20057**	**.20285**
Stddev	.00001	.00145	.00038	.00045	.00045
%RSD	.00381	.52872	.19060	.22352	.21940
#1	.18866	.27378	.19750	.20089	.20317
#2	.18865	.27584	.19804	.20025	.20254
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-1-d msd Acquired: 8/28/2017 23:40:42 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20041
Stddev	.00022
%RSD	.10874
#1	.20026
#2	.20057
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3693.3	2636.2	20816.	4181.2
Stddev	2.8	1.5	41.	1.2
%RSD	.07506	.05724	.19555	.02777
#1	3695.3	2637.3	20787.	4180.4
#2	3691.3	2635.2	20844.	4182.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.700%	98.470%	98.227%	99.869%
Range				

Sample Name: 480-123173-b-2-d Acquired: 8/28/2017 23:44:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.04481**	**.00619**	**.52854**	**.03533**
Stddev	.00084	.00979	.00029	.00038	.00006
%RSD	615.87	21.851	4.7319	.07103	.16386
#1	-.00046	.05174	.00640	.52881	.03529
#2	.00073	.03789	.00598	.52828	.03537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**71.059**	**.00010**	**-.0001**	**.00033**
Stddev	.00004	.131	.00005	.0115	.00011
%RSD	28.954	.18390	46.223	19590.	33.528
#1	-.00018	70.967	.00013	.0080	.00025
#2	-.00012	71.152	.00007	-.0082	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00052**	**.64076**	**2.3731**	**.02277**
Stddev	.00035	.00067	.00188	.0570	.00064
%RSD	90.306	127.75	.29264	2.4008	2.8298
#1	-.00014	.00005	.63944	2.4134	.02231
#2	-.00064	.00100	.64209	2.3328	.02323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-2-d Acquired: 8/28/2017 23:44:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9114**	**.02615**	**.00183**	**86.067**	**.00092**
Stddev	.0019	.00000	.00008	.148	.00025
%RSD	.01877	.00260	4.4979	.17175	26.823
#1	9.9127	.02615	.00178	86.172	.00109
#2	9.9101	.02615	.00189	85.962	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**27.373**	**-.00171**	**.00192**	**5.9970**
Stddev	.00087	.054	.00183	.00037	.0294
%RSD	155.49	.19849	106.93	19.017	.48985
#1	-.00006	27.411	-.00042	.00218	5.9763
#2	.00118	27.335	-.00300	.00166	6.0178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**1.4303**	**-.00017**	**-.00200**	**-.00019**
Stddev	.00019	.0010	.00046	.00000	.00012
%RSD	77.437	.07150	264.06	.10122	64.616
#1	-.00038	1.4311	-.00050	-.00201	-.00028
#2	-.00011	1.4296	.00015	-.00200	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-2-d Acquired: 8/28/2017 23:44:08 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00210
Stddev	.00078
%RSD	37.149
#1	.00155
#2	.00265
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3674.7	2589.3	20384.	4115.9
Stddev	5.4	4.9	78.	9.2
%RSD	.14730	.19056	.38150	.22289
#1	3678.6	2592.8	20329.	4109.4
#2	3670.9	2585.8	20439.	4122.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.249%	96.717%	96.191%	98.310%
Range				

Sample Name: 480-123173-b-3-b Acquired: 8/28/2017 23:47:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.02194**	**.00182**	**.20853**	**.07433**
Stddev	.00059	.01104	.00065	.00012	.00039
%RSD	2643.9	50.301	35.547	.05966	.53027
#1	-.00044	.01414	.00136	.20844	.07460
#2	.00039	.02975	.00228	.20861	.07405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**37.743**	**.00025**	**.0028**	**.00003**
Stddev	.00001	.072	.00006	.0539	.00016
%RSD	7.0036	.19114	24.029	1908.	620.80
#1	-.00016	37.794	.00029	-.0353	.00014
#2	-.00018	37.692	.00021	.0409	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.00142**	**-.00272**	**3.9286**	**.03913**
Stddev	.00029	.00092	.00065	.0228	.00033
%RSD	91.945	64.597	23.932	.58119	.83144
#1	-.00011	.00207	-.00318	3.9447	.03936
#2	-.00053	.00077	-.00226	3.9124	.03890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-3-b Acquired: 8/28/2017 23:47:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**105.11**	**.00322**	**.00132**	**31.134**	**.00181**
Stddev	.47	.00003	.00005	.050	.00002
%RSD	.44257	.92434	3.4256	.16084	.82955
#1	105.44	.00320	.00135	31.169	.00182
#2	104.78	.00324	.00129	31.098	.00180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00138**	**64.108**	**-.00023**	**.00151**	**7.3112**
Stddev	.00031	.004	.00207	.00206	.0414
%RSD	22.733	.00623	911.21	136.61	.56609
#1	.00116	64.111	-.00169	.00297	7.3405
#2	.00160	64.105	.00124	.00005	7.2819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**1.9017**	**.00044**	**-.00142**	**-.00079**
Stddev	.00004	.0058	.00036	.00112	.00009
%RSD	33.904	.30345	82.415	78.819	11.792
#1	-.00015	1.9058	.00018	-.00063	-.00072
#2	-.00009	1.8976	.00069	-.00221	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-3-b Acquired: 8/28/2017 23:47:43 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.63677
Stddev	.00567
%RSD	.88999
#1	.64077
#2	.63276
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3665.8	2593.8	20554.	4133.5
Stddev	1.0	2.1	78.	17.9
%RSD	.02833	.08066	.37954	.43275
#1	3666.5	2595.3	20499.	4120.9
#2	3665.0	2592.3	20610.	4146.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.031%	96.884%	96.995%	98.730%
Range				

Sample Name: 480-123173-b-4-b Acquired: 8/28/2017 23:51:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.02982**	**.00200**	**.06036**	**.11149**
Stddev	.00073	.00214	.00169	.00017	.00010
%RSD	236.82	7.1650	84.342	.28724	.08982
#1	-.00021	.03133	.00081	.06024	.11142
#2	.00083	.02831	.00319	.06048	.11156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**55.381**	**.00010**	**-.0161**	**-.00021**
Stddev	.00003	.081	.00013	.0134	.00010
%RSD	18.115	.14565	125.05	83.63	46.804
#1	-.00016	55.324	.00020	-.0256	-.00028
#2	-.00013	55.438	.00001	-.0066	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**-.00083**	**.65663**	**1.1654**	**.00251**
Stddev	.00002	.00042	.00671	.0250	.00030
%RSD	2.9030	50.850	1.0216	2.1499	12.039
#1	-.00055	-.00053	.66137	1.1477	.00230
#2	-.00057	-.00112	.65188	1.1831	.00273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-4-b Acquired: 8/28/2017 23:51:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.102**	**.04782**	**.00197**	**10.642**	**.00059**
Stddev	.018	.00014	.00023	.006	.00013
%RSD	.09159	.28572	11.801	.05218	21.231
#1	20.089	.04772	.00180	10.646	.00068
#2	20.115	.04791	.00213	10.638	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00063**	**10.261**	**.00142**	**.00002**	**6.8125**
Stddev	.00034	.070	.00232	.00187	.0051
%RSD	54.270	.68594	164.14	9891.8	.07510
#1	.00087	10.211	-.00023	.00134	6.8089
#2	.00039	10.311	.00306	-.00130	6.8161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.53454**	**-.00000**	**-.00009**	**.00008**
Stddev	.00009	.00118	.00021	.00044	.00003
%RSD	19.496	.22041	5467.2	503.30	44.361
#1	-.00053	.53370	-.00015	-.00040	.00010
#2	-.00040	.53537	.00014	.00023	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-4-b Acquired: 8/28/2017 23:51:16 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00236
Stddev	.00044
%RSD	18.760
#1	.00205
#2	.00267
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3825.7	2638.2	20881.	4119.4
Stddev	34.4	22.3	27.	1.5
%RSD	.90044	.84695	.12831	.03650
#1	3850.0	2654.0	20862.	4118.3
#2	3801.3	2622.4	20900.	4120.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.914%	98.545%	98.538%	98.393%
Range				

Sample Name: 480-123173-b-5-b Acquired: 8/28/2017 23:54:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**.01119**	**.00662**	**.04385**	**.14610**
Stddev	.00041	.00198	.00097	.00018	.00033
%RSD	42.864	17.734	14.646	.41174	.22644
#1	.00125	.00979	.00731	.04372	.14587
#2	.00067	.01259	.00594	.04397	.14633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**59.904**	**.00011**	**.0163**	**-.00011**
Stddev	.00002	.137	.00010	.0356	.00007
%RSD	15.834	.22874	86.464	218.5	67.144
#1	-.00011	59.807	.00004	-.0089	-.00006
#2	-.00014	60.001	.00018	.0414	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.00035**	**.42101**	**1.5116**	**.00374**
Stddev	.00042	.00041	.00074	.0231	.00015
%RSD	51.954	115.31	.17573	1.5289	3.8986
#1	-.00110	.00064	.42049	1.4953	.00384
#2	-.00051	.00007	.42154	1.5280	.00364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-5-b Acquired: 8/28/2017 23:54:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.025**	**.01518**	**.00132**	**11.376**	**-.00001**
Stddev	.063	.00003	.00014	.050	.00022
%RSD	.23177	.21809	10.406	.44127	1788.1
#1	26.980	.01515	.00141	11.341	.00014
#2	27.069	.01520	.00122	11.412	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**17.135**	**-.00047**	**.00308**	**6.4253**
Stddev	.00011	.024	.00139	.00336	.0354
%RSD	11.950	.14046	293.61	109.06	.55139
#1	.00088	17.118	.00051	.00071	6.4003
#2	.00104	17.152	-.00146	.00546	6.4504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.45782**	**-.00002**	**-.00167**	**-.00002**
Stddev	.00005	.00148	.00019	.00237	.00020
%RSD	24.198	.32406	1117.5	141.68	870.89
#1	-.00025	.45677	.00012	.00000	.00012
#2	-.00018	.45887	-.00015	-.00335	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-5-b Acquired: 8/28/2017 23:54:50 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.02162**
Stddev	.00051
%RSD	2.3677
#1	.02126
#2	.02199
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3810.5**	**2626.5**	**20891.**	**4099.8**
Stddev	9.6	3.9	8.	2.7
%RSD	.25310	.15007	.03726	.06699
#1	3803.7	2623.7	20886.	4097.9
#2	3817.3	2629.3	20897.	4101.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.547%	98.107%	98.585%	97.926%
Range				

Sample Name: 480-123173-b-6-b Acquired: 8/28/2017 23:58:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.01751**	**.00398**	**.08434**	**.01646**
Stddev	.00008	.00884	.00079	.00005	.00000
%RSD	36.048	50.462	19.958	.05868	.02895
#1	-.00028	.02376	.00342	.08437	.01646
#2	-.00016	.01126	.00454	.08430	.01645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**139.10**	**.00027**	**.0196**	**.00096**
Stddev	.00010	.68	.00018	.0106	.00005
%RSD	48.307	.48712	67.727	53.79	5.3614
#1	-.00014	139.58	.00039	.0271	.00100
#2	-.00028	138.62	.00014	.0122	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.00236**	**.02487**	**3.1108**	**.00652**
Stddev	.00116	.00075	.00042	.0515	.00130
%RSD	377.58	31.810	1.6880	1.6549	19.942
#1	-.00113	.00183	.02457	3.1472	.00560
#2	.00051	.00289	.02517	3.0744	.00744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-6-b Acquired: 8/28/2017 23:58:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**57.787**	**.06003**	**.00258**	**40.999**	**.00791**
Stddev	.202	.00008	.00017	.184	.00015
%RSD	.34995	.13434	6.5335	.44775	1.8473
#1	57.930	.06009	.00270	41.129	.00801
#2	57.644	.05997	.00246	40.869	.00780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**65.015**	**.00069**	**.00190**	**6.7363**
Stddev	.00027	.041	.00208	.00156	.0193
%RSD	13.247	.06381	301.48	82.096	.28671
#1	.00225	65.044	.00216	.00080	6.7500
#2	.00186	64.985	-.00078	.00301	6.7226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**1.2106**	**-.00054**	**-.00189**	**.00093**
Stddev	.00011	.0056	.00062	.00088	.00038
%RSD	41.891	.46026	114.86	46.576	41.230
#1	-.00018	1.2145	-.00010	-.00127	.00119
#2	-.00033	1.2066	-.00097	-.00251	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-6-b Acquired: 8/28/2017 23:58:25 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00696**
Stddev	.00026
%RSD	3.8027
#1	.00714
#2	.00677
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3581.0**	**2545.1**	**20227.**	**4126.9**
Stddev	.6	4.2	109.	22.3
%RSD	.01767	.16574	.53808	.54016
#1	3581.5	2542.1	20150.	4111.2
#2	3580.6	2548.1	20304.	4142.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.972%	95.066%	95.451%	98.573%
Range				

Sample Name: 480-123173-b-7-b Acquired: 8/29/2017 0:02:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.03716**	**-.00011**	**.03011**	**.09115**
Stddev	.00038	.00056	.00095	.00059	.00040
%RSD	88.598	1.5031	883.09	1.9487	.43611
#1	.00070	.03677	-.00078	.03052	.09086
#2	.00016	.03756	.00056	.02969	.09143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**97.498**	**.00019**	**.0245**	**-.00008**
Stddev	.00003	.113	.00009	.0191	.00000
%RSD	18.636	.11589	47.195	77.78	1.7550
#1	-.00014	97.578	.00013	.0110	-.00008
#2	-.00018	97.418	.00025	.0380	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00068**	**.00353**	**1.4200**	**-.00240**
Stddev	.00034	.00056	.00105	.0165	.00014
%RSD	388.85	81.555	29.785	1.1627	5.6976
#1	.00015	.00029	.00279	1.4083	-.00231
#2	-.00033	.00108	.00428	1.4317	-.00250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-7-b Acquired: 8/29/2017 0:02:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.575**	**.00576**	**.00017**	**4.7834**	**.00038**
Stddev	.140	.00007	.00017	.0182	.00008
%RSD	.49015	1.2541	104.86	.38124	20.941
#1	28.476	.00571	.00029	4.7963	.00032
#2	28.674	.00581	.00004	4.7705	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00091**	**14.393**	**.00040**	**.00285**	**4.9078**
Stddev	.00036	.005	.00100	.00000	.0096
%RSD	39.297	.03578	247.80	.08929	.19485
#1	-.00117	14.389	.00111	.00286	4.9146
#2	-.00066	14.397	-.00030	.00285	4.9011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.17290**	**.00031**	**-.00151**	**.00009**
Stddev	.00035	.00021	.00011	.00030	.00010
%RSD	186.67	.11925	35.111	19.703	107.33
#1	.00006	.17276	.00023	-.00130	.00016
#2	-.00044	.17305	.00039	-.00172	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-7-b Acquired: 8/29/2017 0:02:00 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00246**
Stddev	.00014
%RSD	5.6097
#1	.00255
#2	.00236
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3750.4**	**2599.8**	**20593.**	**4146.1**
Stddev	2.1	2.1	115.	10.8
%RSD	.05704	.08186	.55957	.25982
#1	3751.9	2601.3	20675.	4138.5
#2	3748.9	2598.3	20512.	4153.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.087%	97.108%	97.180%	99.032%
Range				

Sample Name: 480-123173-b-8-b Acquired: 8/29/2017 0:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.08413**	**.00018**	**.02471**	**.10547**
Stddev	.00052	.01536	.00095	.00021	.00041
%RSD	146.54	18.257	531.19	.83940	.38877
#1	.00073	.07327	-.00049	.02457	.10576
#2	-.00001	.09499	.00085	.02486	.10518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**90.685**	**.00004**	**.0077**	**-.00008**
Stddev	.00002	.221	.00004	.0129	.00015
%RSD	14.427	.24389	104.36	168.1	180.69
#1	-.00012	90.841	.00006	-.0014	-.00019
#2	-.00014	90.528	.00001	.0168	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00041**	**.00695**	**1.4304**	**-.00073**
Stddev	.00002	.00026	.00094	.0289	.00094
%RSD	4.3232	64.723	13.543	2.0224	128.84
#1	-.00054	.00022	.00629	1.4099	-.00006
#2	-.00058	.00059	.00762	1.4508	-.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-8-b Acquired: 8/29/2017 0:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.820**	**.00195**	**.00001**	**3.7524**	**.00028**
Stddev	.163	.00011	.00017	.0138	.00005
%RSD	.58758	5.7478	2240.2	.36916	17.424
#1	27.935	.00203	.00013	3.7622	.00031
#2	27.704	.00187	-.00011	3.7426	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**10.002**	**-.00060**	**.00263**	**4.5945**
Stddev	.00093	.021	.00011	.00149	.0300
%RSD	303660.	.21456	18.661	56.593	.65285
#1	.00066	9.9864	-.00052	.00158	4.5733
#2	-.00066	10.017	-.00068	.00368	4.6157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.18507**	**-.00010**	**.00027**	**-.00051**
Stddev	.00028	.00005	.00004	.00007	.00020
%RSD	341.09	.02909	41.550	26.853	39.094
#1	.00028	.18511	-.00013	.00032	-.00065
#2	-.00012	.18504	-.00007	.00022	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-8-b Acquired: 8/29/2017 0:05:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00361
Stddev	.00014
%RSD	3.9229
#1	.00351
#2	.00371
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3771.6	2616.8	20703.	4122.0
Stddev	1.9	.8	106.	3.7
%RSD	.05078	.02902	.51378	.09071
#1	3770.3	2617.3	20628.	4119.4
#2	3773.0	2616.2	20779.	4124.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.602%	97.743%	97.698%	98.457%
Range				

Sample Name: CCV-4198708 Acquired: 8/29/2017 0:09:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49626**	**23.904**	**.50143**	**.51108**	**.49904**
Stddev	.00479	.292	.00077	.00040	.00838
%RSD	.96606	1.2206	.15301	.07877	1.6793
#1	.49965	24.110	.50089	.51136	.50497
#2	.49287	23.698	.50197	.51079	.49312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50406**	**24.481**	**.50624**	**-.0109**	**.49477**
Stddev	.00679	.290	.00037	.0305	.00052
%RSD	1.3473	1.1830	.07237	280.2	.10465
#1	.50886	24.686	.50650	.0107	.49513
#2	.49925	24.276	.50598	-.0324	.49440
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49785**	**.51707**	**23.732**	**25.950**	**.51737**
Stddev	.00334	.00187	.221	.383	.00766
%RSD	.67142	.36177	.93059	1.4748	1.4807
#1	.50021	.51839	23.889	26.220	.52279
#2	.49549	.51575	23.576	25.679	.51195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 0:09:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.052**	**.51485**	**.49735**	**25.652**	**.50405**
Stddev	.141	.00405	.00130	.329	.00044
%RSD	.56399	.78704	.26085	1.2814	.08639
#1	25.152	.51771	.49643	25.884	.50435
#2	24.953	.51198	.49827	25.419	.50374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49613**	**25.512**	**.50484**	**.49799**	**23.703**
Stddev	.00001	.011	.00257	.00370	.256
%RSD	.00275	.04189	.50990	.74309	1.0803
#1	.49612	25.519	.50302	.50061	23.884
#2	.49614	25.504	.50666	.49538	23.522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51587**	**.49785**	**.49338**	**.50014**	**.49710**
Stddev	.00098	.00616	.00464	.00290	.00063
%RSD	.19032	1.2379	.93973	.58056	.12650
#1	.51518	.50221	.49665	.50220	.49754
#2	.51657	.49349	.49010	.49809	.49665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 0:09:11 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50086**
Stddev	.00531
%RSD	1.0603
#1	.50461
#2	.49710
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3702.8**	**2627.0**	**20743.**	**4087.1**
Stddev	3.4	3.5	167.	55.6
%RSD	.09266	.13204	.80624	1.3611
#1	3705.2	2629.4	20625.	4047.7
#2	3700.4	2624.5	20861.	4126.4

Sample Name: CCB-4204839 Acquired: 8/29/2017 0:12:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00656**	**-.00138**	**.00107**	**-.00011**
Stddev	.00023	.01880	.00219	.00035	.00000
%RSD	37.095	286.64	158.52	32.529	.47210
#1	.00045	-.00673	-.00293	.00131	-.00011
#2	.00078	.01985	.00017	.00082	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00192**	**-.00019**	**.0265**	**-.00006**
Stddev	.00008	.00002	.00002	.0135	.00005
%RSD	51.376	1.2867	10.333	50.93	76.770
#1	-.00020	-.00190	-.00017	.0169	-.00003
#2	-.00010	-.00194	-.00020	.0360	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00052**	**-.00556**	**.00564**	**-.00236**
Stddev	.00016	.00031	.00188	.01610	.00021
%RSD	42.400	59.446	33.850	285.47	8.9472
#1	.00050	-.00074	-.00689	-.00574	-.00221
#2	.00027	-.00030	-.00423	.01703	-.00251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 0:12:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00343**	**-.00006**	**-.00021**	**.02864**	**-.00028**
Stddev	.00088	.00003	.00005	.00523	.00028
%RSD	25.752	56.205	25.749	18.248	101.04
#1	-.00281	-.00008	-.00017	.03234	-.00008
#2	-.00406	-.00003	-.00025	.02494	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00172**	**-.00444**	**.00065**	**.00329**	**-.01762**
Stddev	.00066	.00380	.00111	.00485	.00680
%RSD	38.146	85.642	170.06	147.44	38.577
#1	-.00219	-.00712	.00144	.00671	-.02242
#2	-.00126	-.00175	-.00013	-.00014	-.01281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**-.00006**	**-.00018**	**-.00074**	**-.00006**
Stddev	.00056	.00002	.00024	.00065	.00061
%RSD	102.81	40.278	130.80	86.739	1047.9
#1	-.00093	-.00007	-.00001	-.00120	-.00049
#2	-.00015	-.00004	-.00036	-.00029	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 0:12:39 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00040
Stddev	.00054
%RSD	134.63
#1	.00002
#2	.00079
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4162.0	2702.8	21529.	4110.8
Stddev	4.1	6.0	86.	20.3
%RSD	.09788	.22077	.40148	.49266
#1	4164.9	2707.0	21591.	4096.5
#2	4159.1	2698.6	21468.	4125.1

Sample Name: CCVL-4195955 Acquired: 8/29/2017 0:16:18 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00568**	**.18227**	**.01598**	**.02072**	**.00202**
Stddev	.00020	.00947	.00006	.00011	.00000
%RSD	3.6007	5.1941	.36716	.53471	.10897
#1	.00583	.17558	.01594	.02064	.00202
#2	.00554	.18897	.01602	.02080	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.49574**	**.00195**	**.0385**	**.00372**
Stddev	.00011	.00333	.00001	.0068	.00021
%RSD	5.6831	.67133	.27670	17.62	5.6418
#1	.00196	.49809	.00195	.0434	.00387
#2	.00180	.49338	.00194	.0337	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00387**	**.01012**	**.04138**	**.53071**	**.02795**
Stddev	.00007	.00020	.00356	.02469	.00211
%RSD	1.8273	1.9386	8.6090	4.6528	7.5400
#1	.00382	.00998	.03886	.54817	.02944
#2	.00392	.01026	.04390	.51325	.02646
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 0:16:18 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19748**	**.00296**	**.00963**	**1.0462**	**.00945**
Stddev	.00394	.00019	.00015	.0022	.00025
%RSD	1.9969	6.4090	1.5252	.20662	2.6588
#1	.19469	.00283	.00953	1.0477	.00963
#2	.20027	.00309	.00973	1.0447	.00927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01005**	**.19384**	**.02250**	**.02933**	**.48083**
Stddev	.00038	.00062	.00096	.00305	.00399
%RSD	3.7426	.32071	4.2768	10.391	.83018
#1	.00978	.19428	.02318	.02718	.47801
#2	.01031	.19340	.02182	.03149	.48365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00892**	**.00487**	**.00469**	**.01918**	**.00462**
Stddev	.00010	.00018	.00022	.00130	.00035
%RSD	1.1568	3.6409	4.6328	6.7521	7.5805
#1	.00900	.00500	.00484	.01827	.00487
#2	.00885	.00475	.00454	.02010	.00438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 0:16:18 Type: QC
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01140
Stddev	.00006
%RSD	.55774
#1	.01144
#2	.01135
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4152.2	2716.7	21758.	4133.9
Stddev	4.7	6.2	107.	13.5
%RSD	.11265	.22686	.49225	.32542
#1	4148.8	2712.3	21834.	4124.4
#2	4155.5	2721.1	21682.	4143.4

Sample Name: 480-123173-b-9-b Acquired: 8/29/2017 0:19:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.03107**	**.00082**	**.04349**	**.11318**
Stddev	.00037	.03295	.00015	.00005	.00036
%RSD	115.02	106.04	18.930	.12145	.31378
#1	-.00059	.00777	.00093	.04346	.11343
#2	-.00006	.05438	.00071	.04353	.11293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**96.769**	**.00012**	**.0286**	**-.00011**
Stddev	.00002	.008	.00007	.0038	.00003
%RSD	10.395	.00821	57.718	13.23	24.309
#1	-.00016	96.774	.00017	.0259	-.00009
#2	-.00019	96.763	.00007	.0313	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00151**	**.20375**	**4.5986**	**.00158**
Stddev	.00026	.00050	.00560	.0841	.00005
%RSD	117.68	32.936	2.7492	1.8289	2.9699
#1	-.00040	.00186	.19979	4.6581	.00161
#2	-.00004	.00115	.20771	4.5391	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-9-b Acquired: 8/29/2017 0:19:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.096**	**.12431**	**.00014**	**7.9243**	**.00166**
Stddev	.075	.00040	.00010	.0398	.00013
%RSD	.21250	.31886	72.322	.50223	7.5704
#1	35.149	.12459	.00022	7.9525	.00157
#2	35.044	.12403	.00007	7.8962	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**16.919**	**-.00076**	**-.00095**	**8.2213**
Stddev	.00023	.021	.00164	.00058	.0154
%RSD	290.81	.12600	214.21	60.711	.18765
#1	-.00024	16.934	-.00192	-.00054	8.2104
#2	.00008	16.904	.00039	-.00136	8.2322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.35310**	**-.00031**	**-.00144**	**.00004**
Stddev	.00031	.00059	.00026	.00069	.00018
%RSD	67.243	.16568	82.479	48.066	480.21
#1	.00025	.35352	-.00013	-.00193	.00017
#2	.00069	.35269	-.00049	-.00095	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-9-b Acquired: 8/29/2017 0:19:56 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00617
Stddev	.00038
%RSD	6.1246
#1	.00644
#2	.00590
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3735.7	2606.1	20620.	4134.2
Stddev	1.8	1.1	41.	6.6
%RSD	.04934	.04255	.19871	.15863
#1	3737.0	2606.8	20591.	4129.6
#2	3734.4	2605.3	20649.	4138.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.730%	97.343%	97.305%	98.748%
Range				

Sample Name: 480-123173-b-10-b Acquired: 8/29/2017 0:23:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.04185**	**.00449**	**.11582**	**.06966**
Stddev	.00025	.00138	.00011	.00001	.00031
%RSD	35.217	3.3087	2.3644	.01121	.45148
#1	.00053	.04087	.00441	.11581	.06943
#2	.00089	.04283	.00456	.11583	.06988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**45.449**	**.00005**	**.0147**	**.00033**
Stddev	.00008	.086	.00002	.0005	.00015
%RSD	50.127	.18863	43.220	3.527	43.426
#1	-.00010	45.388	.00003	.0151	.00044
#2	-.00022	45.509	.00006	.0144	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.00043**	**.00203**	**1.6628**	**.00341**
Stddev	.00004	.00009	.00077	.0021	.00017
%RSD	4.4928	20.047	37.996	.12337	4.9867
#1	-.00078	.00037	.00257	1.6614	.00329
#2	-.00083	.00049	.00148	1.6643	.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-10-b Acquired: 8/29/2017 0:23:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.392**	**.00932**	**.00670**	**15.005**	**.00095**
Stddev	.026	.00003	.00001	.050	.00040
%RSD	.14324	.35699	.09232	.33529	41.880
#1	18.373	.00929	.00671	14.969	.00067
#2	18.411	.00934	.00670	15.040	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**8.6569**	**-.00087**	**.00281**	**5.7243**
Stddev	.00096	.0071	.00019	.00039	.0231
%RSD	309.20	.08156	21.383	13.882	.40288
#1	-.00037	8.6619	-.00101	.00254	5.7080
#2	.00099	8.6519	-.00074	.00309	5.7406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.63815**	**.00028**	**-.00082**	**.00010**
Stddev	.00006	.00337	.00021	.00014	.00006
%RSD	14.096	.52867	74.071	17.473	59.657
#1	-.00041	.63577	.00043	-.00072	.00006
#2	-.00050	.64054	.00013	-.00092	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-b-10-b Acquired: 8/29/2017 0:23:30 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00249
Stddev	.00026
%RSD	10.398
#1	.00231
#2	.00267
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3855.6	2648.4	20951.	4167.1
Stddev	.4	1.6	80.	8.3
%RSD	.01073	.06123	.38075	.19799
#1	3855.9	2649.5	21007.	4172.9
#2	3855.4	2647.2	20895.	4161.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.643%	98.922%	98.866%	99.533%
Range				

Sample Name: 480-123173-c-11-b Acquired: 8/29/2017 0:27:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.02239**	**.00013**	**.00318**	**-.00003**
Stddev	.00012	.00697	.00131	.00011	.00003
%RSD	77.045	31.138	1006.5	3.3851	100.23
#1	-.00024	.01746	-.00080	.00326	-.00005
#2	-.00007	.02733	.00106	.00310	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.06079**	**-.00021**	**-.0089**	**-.00003**
Stddev	.00012	.00419	.00004	.0046	.00008
%RSD	70.124	6.8918	17.430	52.21	276.67
#1	-.00025	.06375	-.00018	-.0122	.00003
#2	-.00009	.05783	-.00024	-.0056	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00081**	**-.00364**	**.03855**	**.00027**
Stddev	.00039	.00092	.00186	.03762	.00064
%RSD	72.089	112.90	51.093	97.588	236.17
#1	-.00027	.00146	-.00495	.06515	-.00018
#2	-.00082	.00016	-.00232	.01195	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-11-b Acquired: 8/29/2017 0:27:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	**.00114**	**-.00030**	**.04074**	**.00041**
Stddev	.00201	.00004	.00015	.00652	.00012
%RSD	47.406	3.4937	51.454	16.004	30.053
#1	.00566	.00111	-.00041	.03613	.00050
#2	.00282	.00117	-.00019	.04535	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00022**	**.00151**	**.00335**	**-.00114**
Stddev	.00017	.00009	.00089	.00080	.00346
%RSD	2535.3	39.712	58.681	23.992	302.57
#1	.00012	-.00016	.00214	.00392	.00130
#2	-.00013	-.00029	.00088	.00279	-.00359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00031**	**.00011**	**-.00087**	**-.00016**
Stddev	.00035	.00009	.00009	.00083	.00059
%RSD	106.17	29.916	82.146	94.755	371.07
#1	-.00008	.00025	.00017	-.00029	-.00058
#2	-.00057	.00038	.00005	-.00146	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-11-b Acquired: 8/29/2017 0:27:06 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00450**
Stddev	.00006
%RSD	1.2783
#1	.00454
#2	.00446
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4192.2**	**2720.7**	**21727.**	**4165.7**
Stddev	1.9	4.0	7.	9.3
%RSD	.04441	.14611	.03009	.22352
#1	4193.5	2717.9	21723.	4159.1
#2	4190.9	2723.5	21732.	4172.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.82%	101.63%	102.53%	99.499%
Range				

Sample Name: 480-123173-c-13-b Acquired: 8/29/2017 0:30:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.01434**	**.01088**	**.06458**	**.07061**
Stddev	.00004	.01316	.00086	.00035	.00040
%RSD	256.87	91.791	7.9452	.54698	.56762
#1	-.00001	.00503	.01027	.06433	.07089
#2	.00004	.02364	.01150	.06483	.07032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**87.642**	**.00001**	**-.0215**	**-.00022**
Stddev	.00000	.332	.00005	.0217	.00010
%RSD	.75216	.37859	453.91	100.7	45.252
#1	-.00020	87.877	-.00002	-.0062	-.00015
#2	-.00020	87.407	.00004	-.0368	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00114**	**.00006**	**1.4350**	**1.3344**	**.00212**
Stddev	.00061	.00088	.0022	.0166	.00110
%RSD	53.456	1489.7	.15634	1.2407	51.828
#1	-.00071	.00068	1.4366	1.3227	.00134
#2	-.00157	-.00057	1.4334	1.3461	.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-13-b Acquired: 8/29/2017 0:30:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.690**	**.03494**	**.00242**	**14.566**	**.00061**
Stddev	.077	.00016	.00018	.097	.00009
%RSD	.25199	.45451	7.3515	.66795	14.518
#1	30.745	.03505	.00229	14.634	.00054
#2	30.636	.03482	.00255	14.497	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00116**	**22.293**	**-.00009**	**.00199**	**7.5607**
Stddev	.00097	.018	.00145	.00215	.0427
%RSD	83.747	.07961	1704.0	107.73	.56505
#1	.00185	22.305	-.00111	.00351	7.5909
#2	.00047	22.280	.00094	.00047	7.5305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.33088**	**-.00014**	**-.00075**	**-.00014**
Stddev	.00073	.00274	.00046	.00050	.00004
%RSD	132.61	.82766	317.46	66.584	28.384
#1	-.00003	.33282	.00018	-.00039	-.00011
#2	-.00107	.32895	-.00047	-.00110	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-13-b Acquired: 8/29/2017 0:30:44 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00421
Stddev	.00001
%RSD	.21242
#1	.00420
#2	.00422
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3738.5	2599.7	20506.	4087.8
Stddev	8.3	5.0	65.	13.5
%RSD	.22284	.19284	.31659	.33099
#1	3732.6	2596.2	20460.	4078.2
#2	3744.4	2603.3	20552.	4097.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.797%	97.106%	96.768%	97.638%
Range				

Sample Name: 480-123173-c-14-b Acquired: 8/29/2017 0:34:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.02315**	**.01522**	**.25834**	**.15730**
Stddev	.00046	.00593	.00113	.00001	.00040
%RSD	479.59	25.611	7.4502	.00411	.25488
#1	-.00023	.01896	.01442	.25833	.15702
#2	.00042	.02735	.01603	.25834	.15758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**32.131**	**-.00003**	**.0218**	**-.00005**
Stddev	.00009	.011	.00004	.0173	.00003
%RSD	61.759	.03555	115.47	79.39	59.306
#1	-.00021	32.139	-.00001	.0096	-.00003
#2	-.00008	32.122	-.00006	.0341	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.00025**	**.24810**	**1.9145**	**.00536**
Stddev	.00044	.00092	.00068	.0124	.00058
%RSD	122.13	370.85	.27277	.64839	10.778
#1	-.00005	.00089	.24762	1.9232	.00577
#2	-.00067	-.00040	.24858	1.9057	.00495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-14-b Acquired: 8/29/2017 0:34:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.386**	**.01650**	**.01246**	**52.812**	**-.00008**
Stddev	.022	.00009	.00025	.233	.00013
%RSD	.15158	.55829	2.0034	.44093	159.45
#1	14.371	.01643	.01264	52.976	.00001
#2	14.402	.01656	.01229	52.647	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.14038**	**.00114**	**.00058**	**6.1374**
Stddev	.00078	.00135	.00077	.00265	.0027
%RSD	88.045	.96168	67.556	460.50	.04412
#1	.00144	.14133	.00169	-.00130	6.1393
#2	.00034	.13942	.00060	.00245	6.1355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**1.3393**	**-.00010**	**.00073**	**.00009**
Stddev	.00021	.0012	.00035	.00049	.00016
%RSD	42.462	.09058	343.07	67.016	177.22
#1	-.00035	1.3384	-.00035	.00107	-.00002
#2	-.00064	1.3401	.00015	.00038	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-c-14-b Acquired: 8/29/2017 0:34:18 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00434**
Stddev	.00079
%RSD	18.230
#1	.00490
#2	.00378
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3781.8**	**2633.9**	**20876.**	**4133.0**
Stddev	5.4	5.3	5.	9.1
%RSD	.14205	.20039	.02341	.22089
#1	3785.6	2637.6	20873.	4139.4
#2	3778.0	2630.2	20880.	4126.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.848%	98.383%	98.515%	98.717%
Range				

Sample Name: 190-14267-d-1-c Acquired: 8/29/2017 0:37:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.02124**	**.00930**	**.13407**	**.11852**
Stddev	.00007	.01010	.00112	.00050	.00015
%RSD	37.455	47.547	12.048	.37107	.12732
#1	-.00014	.02838	.00850	.13442	.11842
#2	-.00023	.01410	.01009	.13371	.11863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**42.774**	**.00034**	**-.0043**	**-.00012**
Stddev	.00009	.072	.00010	.0234	.00014
%RSD	46.343	.16780	29.440	548.9	116.33
#1	-.00013	42.825	.00041	-.0208	-.00021
#2	-.00026	42.723	.00027	.0123	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**.00293**	**-.00216**	**2.0164**	**.00774**
Stddev	.00027	.00140	.00019	.0369	.00062
%RSD	26.290	47.711	8.9316	1.8322	8.0122
#1	-.00082	.00194	-.00202	2.0426	.00730
#2	-.00120	.00392	-.00230	1.9903	.00818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-d-1-c Acquired: 8/29/2017 0:37:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.412**	**.03809**	**.01804**	**20.694**	**.00040**
Stddev	.056	.00001	.00006	.046	.00030
%RSD	.23820	.03280	.32821	.22108	73.247
#1	23.373	.03808	.01800	20.726	.00020
#2	23.452	.03810	.01808	20.661	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00312**	**4.2064**	**.00090**	**.00189**	**6.7641**
Stddev	.00055	.0001	.00059	.00138	.0090
%RSD	17.478	.00299	66.251	72.829	.13311
#1	.00351	4.2065	.00048	.00092	6.7704
#2	.00274	4.2063	.00132	.00286	6.7577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.43443**	**.00003**	**.00030**	**-.00044**
Stddev	.00049	.00028	.00025	.00103	.00028
%RSD	1855.4	.06554	731.77	348.15	62.383
#1	.00037	.43463	-.00014	.00103	-.00025
#2	-.00032	.43422	.00021	-.00043	-.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-d-1-c Acquired: 8/29/2017 0:37:54 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.81302
Stddev	.00020
%RSD	.02509
#1	.81317
#2	.81288
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3820.1	2643.6	20914.	4164.5
Stddev	.8	1.8	48.	24.1
%RSD	.01977	.06712	.22820	.57800
#1	3820.7	2644.8	20880.	4147.5
#2	3819.6	2642.3	20948.	4181.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.780%	98.744%	98.692%	99.471%
Range				

Sample Name: 190-14267-c-2-c Acquired: 8/29/2017 0:41:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00060**	**.03683**	**.07448**	**.13960**
Stddev	.00113	.00750	.00258	.00045	.00014
%RSD	2204.7	1240.0	7.0080	.60023	.09684
#1	.00085	-.00591	.03866	.07480	.13970
#2	-.00075	.00470	.03501	.07417	.13950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**67.431**	**.00014**	**-.0179**	**-.00036**
Stddev	.00009	.205	.00005	.0023	.00020
%RSD	38.994	.30421	35.553	12.75	54.723
#1	-.00016	67.286	.00017	-.0195	-.00050
#2	-.00028	67.576	.00010	-.0163	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00228**	**.94476**	**1.4723**	**.00868**
Stddev	.00075	.00027	.00048	.0513	.00102
%RSD	1478.0	11.725	.05085	3.4832	11.765
#1	-.00058	.00247	.94442	1.4361	.00940
#2	.00048	.00209	.94510	1.5086	.00796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-c-2-c Acquired: 8/29/2017 0:41:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.354**	**.01211**	**.01734**	**10.797**	**-.00011**
Stddev	.060	.00006	.00002	.003	.00001
%RSD	.17562	.47421	.08672	.02351	11.627
#1	34.396	.01215	.01735	10.799	-.00012
#2	34.311	.01207	.01733	10.796	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**14.139**	**.00013**	**.00478**	**7.5305**
Stddev	.00019	.034	.00138	.00162	.0245
%RSD	15.485	.23844	1029.6	33.909	.32494
#1	.00108	14.115	-.00084	.00592	7.5132
#2	.00135	14.163	.00111	.00363	7.5478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.72015**	**-.00002**	**-.00055**	**-.00052**
Stddev	.00032	.00214	.00021	.00040	.00046
%RSD	145.96	.29767	1289.0	72.888	89.307
#1	-.00001	.71864	-.00016	-.00027	-.00019
#2	.00044	.72167	.00013	-.00084	-.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-c-2-c Acquired: 8/29/2017 0:41:26 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21195**
Stddev	.00122
%RSD	.57756
#1	.21108
#2	.21281
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3782.3**	**2623.8**	**20793.**	**4133.6**
Stddev	5.6	3.4	55.	4.6
%RSD	.14695	.12987	.26407	.11246
#1	3778.3	2621.4	20831.	4136.8
#2	3786.2	2626.2	20754.	4130.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.860%	98.004%	98.119%	98.732%
Range				

Sample Name: 190-14267-c-3-c Acquired: 8/29/2017 0:45:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.02097**	**.00097**	**.56118**	**.29796**
Stddev	.00071	.00562	.00300	.00009	.00080
%RSD	176.96	26.788	308.22	.01648	.26895
#1	.00091	.02495	-.00115	.56124	.29853
#2	-.00010	.01700	.00310	.56111	.29739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**98.540**	**.00016**	**.0110**	**-.00032**
Stddev	.00006	.192	.00009	.0036	.00019
%RSD	22.733	.19477	54.920	32.36	59.315
#1	-.00030	98.405	.00010	.0085	-.00046
#2	-.00021	98.676	.00023	.0135	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00133**	**4.0805**	**2.2208**	**.01041**
Stddev	.00015	.00061	.0151	.0336	.00149
%RSD	210.97	45.766	.36898	1.5114	14.323
#1	-.00017	.00176	4.0699	2.2445	.00936
#2	.00003	.00090	4.0912	2.1971	.01147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-c-3-c Acquired: 8/29/2017 0:45:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.065**	**.03030**	**.01340**	**84.710**	**.01356**
Stddev	.102	.00009	.00008	.053	.00011
%RSD	.23739	.30302	.61645	.06220	.78319
#1	43.137	.03037	.01345	84.672	.01349
#2	42.993	.03024	.01334	84.747	.01364
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**25.224**	**.00038**	**-.00061**	**8.0844**
Stddev	.00020	.006	.00000	.00198	.0303
%RSD	19.246	.02516	1.1060	322.91	.37530
#1	.00117	25.229	.00038	-.00201	8.0629
#2	.00089	25.220	.00039	.00079	8.1059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**1.1044**	**-.00009**	**.00044**	**-.00029**
Stddev	.00003	.0008	.00036	.00050	.00006
%RSD	243.14	.07392	412.02	114.45	21.407
#1	-.00001	1.1050	-.00034	.00080	-.00034
#2	.00003	1.1038	.00017	.00008	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-c-3-c Acquired: 8/29/2017 0:45:01 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.06220**
Stddev	.00057
%RSD	.90964
#1	.06180
#2	.06260
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3595.7**	**2574.7**	**20377.**	**4148.6**
Stddev	5.0	5.2	11.	4.2
%RSD	.13878	.20309	.05601	.10228
#1	3592.2	2571.0	20369.	4151.6
#2	3599.2	2578.4	20385.	4145.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.329%	96.173%	96.158%	99.091%
Range				

Sample Name: 480-123211-a-1-a Acquired: 8/29/2017 0:48:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00090**	**.29696**	**.00353**	**.06412**	**.04773**
Stddev	.00027	.00816	.00199	.00036	.00015
%RSD	30.465	2.7490	56.473	.55498	.30617
#1	-.00109	.29119	.00494	.06437	.04763
#2	-.00070	.30274	.00212	.06387	.04784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	F **932.12**	**.00053**	**.0267**	**.00245**
Stddev	.00002	1.19	.00002	.0136	.00015
%RSD	5.7397	.12730	3.5254	50.99	6.0012
#1	-.00044	932.96	.00052	.0363	.00235
#2	-.00040	931.28	.00055	.0171	.00256
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12217**	**.10301**	**1.3358**	**28.763**	**-.00461**
Stddev	.00000	.00008	.0115	.315	.00172
%RSD	.00073	.08169	.85835	1.0958	37.244
#1	.12217	.10307	1.3277	28.540	-.00582
#2	.12217	.10295	1.3439	28.986	-.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123211-a-1-a Acquired: 8/29/2017 0:48:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**141.53**	**.06272**	**.00170**	**1160.0**	**.27314**
Stddev	.39	.00045	.00033	8.4	.00037
%RSD	.27895	.71616	19.677	.72631	.13407
#1	141.25	.06241	.00193	1154.1	.27339
#2	141.81	.06304	.00146	1166.0	.27288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00330**	F **1599.6**	**.00161**	**.00863**	**5.6768**
Stddev	.00102	.7	.00048	.00186	.0431
%RSD	30.898	.04091	29.516	21.594	.75939
#1	-.00402	1599.1	.00195	.00994	5.6463
#2	-.00258	1600.1	.00128	.00731	5.7073
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**3.4736**	**.01096**	**-.00201**	**-.00031**
Stddev	.00025	.0383	.00004	.00049	.00039
%RSD	413.84	1.1015	.35678	24.642	127.03
#1	.00012	3.4465	.01094	-.00236	-.00003
#2	-.00024	3.5006	.01099	-.00166	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123211-a-1-a Acquired: 8/29/2017 0:48:35 Type: Unk
Method: ICAP2 June 2017(v95) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.05423**
Stddev	.00055
%RSD	1.0136
#1	.05384
#2	.05462
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2818.2**	**2288.6**	**17749.**	**3903.3**
Stddev	1.4	1.7	53.	24.3
%RSD	.05072	.07342	.29641	.62213
#1	2817.2	2287.4	17786.	3920.5
#2	2819.2	2289.8	17712.	3886.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.445%	85.483%	83.757%	93.232%
Range				

Run File: I2082917A

Instrument: ICAP2

Analyst: JRK

Data Review: JMH 8/29/17

Spikes Ids: 4027863(W1), 3903387(W2), 4076679(Sn), 4076667(Ag), 3900427(Si), 3885452(TCLP)

Pipette IDs: 06/16/17-(1-9, 11)
Internal Standard: 4198709

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I2082917A	ICIS-4204839	08/29/17 02:03 PM	Standard
2	I2082917A	IC-4195955	08/29/17 02:07 PM	Standard
3	I2082917A	IC-4207542	08/29/17 02:10 PM	Standard
4	I2082917A	IC-4207541	08/29/17 02:14 PM	Standard
5	I2082917A	ICV-4204840	08/29/17 02:17 PM	QC
6	I2082917A	ICB-4204839	08/29/17 02:28 PM	QC
7	I2082917A	ICVL-4195955	08/29/17 02:32 PM	QC
8	I2082917A	ICSA-4090634	08/29/17 02:35 PM	QC
9	I2082917A	ICSAB-4167458	08/29/17 02:39 PM	QC
10	I2082917A	ICEX1	08/29/17 02:43 PM	Unknown
11	I2082917A	ICEX2	08/29/17 02:46 PM	Unknown
12	I2082917A	ICEX3	08/29/17 02:50 PM	Unknown
13	I2082917A	ICEX4	08/29/17 02:58 PM	Unknown
14	I2082917A	ICEX5	08/29/17 03:02 PM	Unknown
15	I2082917A	CCV-4198708	08/29/17 03:05 PM	QC
16	I2082917A	CCB-4204839	08/29/17 03:09 PM	QC
17	I2082917A	CCVL-4195955	08/29/17 03:21 PM	QC
18	I2082917A	480-123215-G-1-B	08/29/17 03:24 PM	Unknown
19	I2082917A	480-123215-G-2-B	08/29/17 03:28 PM	Unknown
20	I2082917A	480-123215-G-3-B	08/29/17 03:31 PM	Unknown
21	I2082917A	480-123173-B-9-B	08/29/17 03:35 PM	Unknown
22	I2082917A	480-123173-B-10-B	08/29/17 03:39 PM	Unknown
23	I2082917A	480-123173-C-11-B	08/29/17 03:42 PM	Unknown
24	I2082917A	480-123173-C-13-B	08/29/17 03:46 PM	Unknown
25	I2082917A	480-123173-C-14-B	08/29/17 03:49 PM	Unknown
26	I2082917A	190-14267-D-1-C	08/29/17 03:53 PM	Unknown
27	I2082917A	CCV-4198708	08/29/17 03:57 PM	QC
28	I2082917A	CCB-4204839	08/29/17 04:00 PM	QC
29	I2082917A	CCVL-4195955	08/29/17 04:04 PM	QC
30	I2082917A	190-14267-C-2-C	08/29/17 04:07 PM	Unknown
31	I2082917A	190-14267-C-3-C	08/29/17 04:11 PM	Unknown
32	I2082917A	480-123211-A-1-A	08/29/17 04:14 PM	Unknown
33	I2082917A	480-123169-C-1-A@5	08/29/17 04:18 PM	Unknown
34	I2082917A	480-123243-e-1-a@5	08/29/17 04:22 PM	Unknown
35	I2082917A	BLANK	08/29/17 04:25 PM	Unknown
36	I2082917A	mb 480-373533/1-b	08/29/17 04:29 PM	Unknown
37	I2082917A	480-122418 TOT	08/29/17 04:33 PM	Unknown
38	I2082917A	mb 480-374194/1-c	08/29/17 04:36 PM	Unknown
39	I2082917A	CCV-4198708	08/29/17 04:40 PM	QC
40	I2082917A	CCB-4204839	08/29/17 04:43 PM	QC
41	I2082917A	CCVL-4195955	08/29/17 04:47 PM	QC
42	I2082917A	lcs 480-374194/2-c	08/29/17 04:51 PM	Unknown

43	I2082917A	480-123260-a-1-c	08/29/17 04:54 PM	Unknown
44	I2082917A	480-123260-a-1-cSD@5	08/29/17 04:58 PM	Unknown
45	I2082917A	480-123260-a-1-c PDS	08/29/17 05:01 PM	Unknown
46	I2082917A	480-123260-a-1-d ms	08/29/17 05:05 PM	Unknown
47	I2082917A	480-123260-a-1-e msd	08/29/17 05:08 PM	Unknown
48	I2082917A	480-123260-a-2-e	08/29/17 05:11 PM	Unknown
49	I2082917A	480-123256-h-4-b	08/29/17 05:15 PM	Unknown
50	I2082917A	BLANK	08/29/17 05:19 PM	Unknown
51	I2082917A	CCV-4198708	08/29/17 05:22 PM	QC
52	I2082917A	CCB-4204839	08/29/17 05:26 PM	QC
53	I2082917A	CCVL-4195955	08/29/17 05:29 PM	QC
54	I2082917A	mb 480-374277/1-a	08/29/17 05:33 PM	Unknown
55	I2082917A	lcs 480-374277/2-a	08/29/17 05:36 PM	Unknown
56	I2082917A	480-123304-g-1-a	08/29/17 05:40 PM	Unknown
57	I2082917A	480-123304-g-1-aSD@5	08/29/17 05:44 PM	Unknown
58	I2082917A	480-123304-g-1-a PDS	08/29/17 05:47 PM	Unknown
59	I2082917A	480-123304-g-1-b ms	08/29/17 05:51 PM	Unknown
60	I2082917A	480-123304-g-1-c msd	08/29/17 05:54 PM	Unknown
61	I2082917A	480-123304-g-2-a	08/29/17 05:58 PM	Unknown
62	I2082917A	480-123304-g-3-a	08/29/17 06:01 PM	Unknown
63	I2082917A	CCV-4198708	08/29/17 06:05 PM	QC
64	I2082917A	CCB-4204839	08/29/17 06:08 PM	QC
65	I2082917A	CCVL-4195955	08/29/17 06:12 PM	QC
66	I2082917A	480-123304-g-4-a	08/29/17 06:16 PM	Unknown
67	I2082917A	480-123304-g-5-a	08/29/17 06:19 PM	Unknown
68	I2082917A	480-123304-a-6-a	08/29/17 06:23 PM	Unknown
69	I2082917A	480-123304-g-7-a	08/29/17 06:26 PM	Unknown
70	I2082917A	480-123283-d-1-b	08/29/17 06:30 PM	Unknown
71	I2082917A	480-123283-d-2-d	08/29/17 06:34 PM	Unknown
72	I2082917A	480-123283-d-3-b	08/29/17 06:37 PM	Unknown
73	I2082917A	480-123283-d-4-b	08/29/17 06:41 PM	Unknown
74	I2082917A	190-14287-c-2-d	08/29/17 06:44 PM	Unknown
75	I2082917A	CCV-4198708	08/29/17 06:48 PM	QC
76	I2082917A	CCB-4204839	08/29/17 06:51 PM	QC
77	I2082917A	CCVL-4195955	08/29/17 06:55 PM	QC
78	I2082917A	190-14287-c-3-d	08/29/17 06:59 PM	Unknown
79	I2082917A	480-123091-a-12-c	08/29/17 07:02 PM	Unknown
80	I2082917A	480-123314-b-1-a	08/29/17 07:06 PM	Unknown
81	I2082917A	190-14286-d-1-b	08/29/17 07:09 PM	Unknown
82	I2082917A	190-14286-d-2-b	08/29/17 07:13 PM	Unknown
83	I2082917A	480-123253-d-1-c	08/29/17 07:17 PM	Unknown
84	I2082917A	480-123272-d-1-b	08/29/17 07:21 PM	Unknown
85	I2082917A	480-123172-b-2-b	08/29/17 07:24 PM	Unknown
86	I2082917A	BLANK	08/29/17 07:28 PM	Unknown
87	I2082917A	CCV-4198708	08/29/17 07:32 PM	QC
88	I2082917A	CCB-4204839	08/29/17 07:35 PM	QC
89	I2082917A	CCVL-4195955	08/29/17 07:39 PM	QC

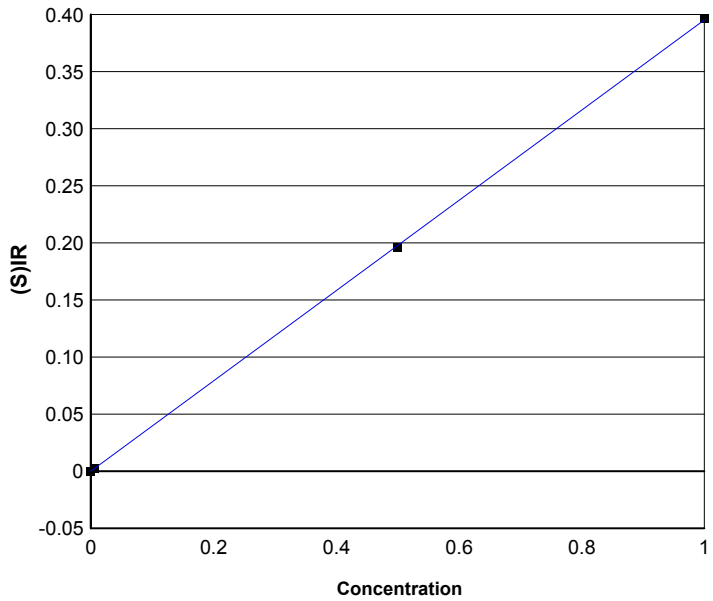
I2082917A

Author: JRK

Published: 8/29/2017 8:43:18PM

Instrument Name: iCAP2 Serial Number: 20094602

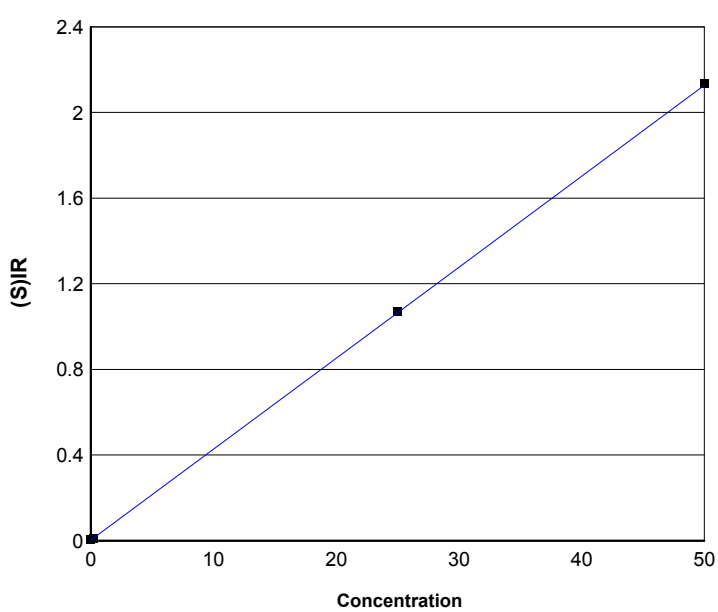
Method Name: ICAP2 June 2017 (96)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.000012639
A1 (Gain):	0.39533
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

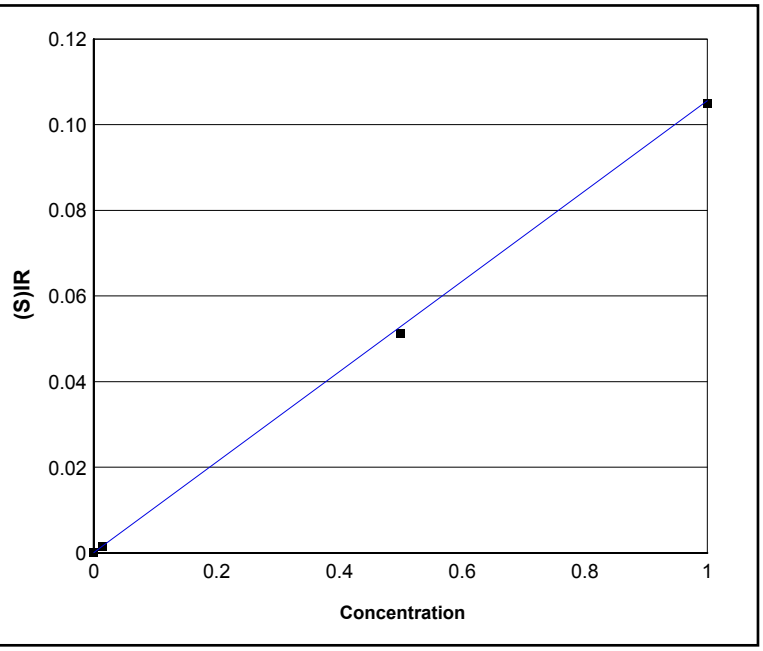
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002618	0.0000002618	0.00000	-0.000012535	0.00017116	1
IC-4195955	0.0060000	0.0057580	-0.00024202	-4.0337	0.0022637	0.00015016	1
IC-4207542	0.50000	0.49646	-0.0035371	-0.70743	0.19626	0.0014655	1
IC-4207541	1.0000	1.0038	0.0037792	0.37792	0.39682	0.00074631	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0032040
A1 (Gain):	0.042473
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

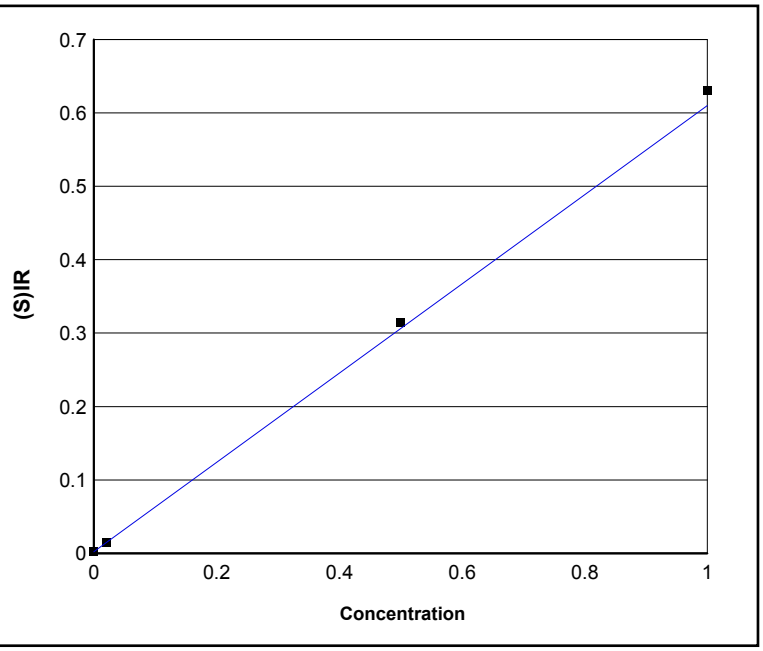
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.000030504	0.000030504	0.00000	0.0032053	0.00066060	1
IC-4195955	0.20000	0.16929	-0.030707	-15.353	0.010441	0.00065696	1
IC-4207542	25.000	25.020	0.020024	0.080095	1.0705	0.0036558	1
IC-4207541	50.000	50.011	0.010717	0.021433	2.1366	0.0099408	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.000087679
A1 (Gain):	0.10556
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

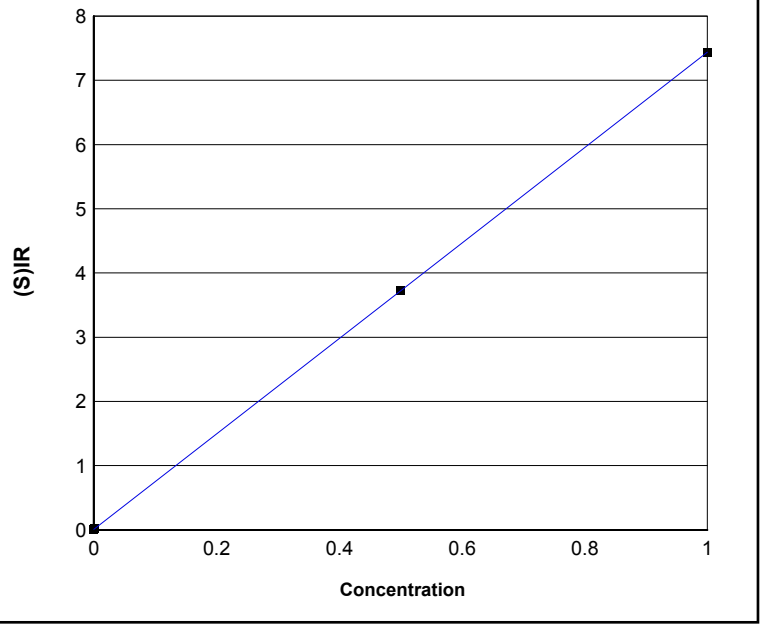
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000007368	0.0000007368	0.00000	0.000087757	0.00014864	1
IC-4195955	0.015000	0.014362	-0.00063837	-4.2558	0.0015974	0.00020994	1
IC-4207542	0.50000	0.49280	-0.0072042	-1.4408	0.051316	0.00019558	1
IC-4207541	1.0000	1.0078	0.0078497	0.78497	0.10489	0.0014320	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0023281
A1 (Gain):	0.60787
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

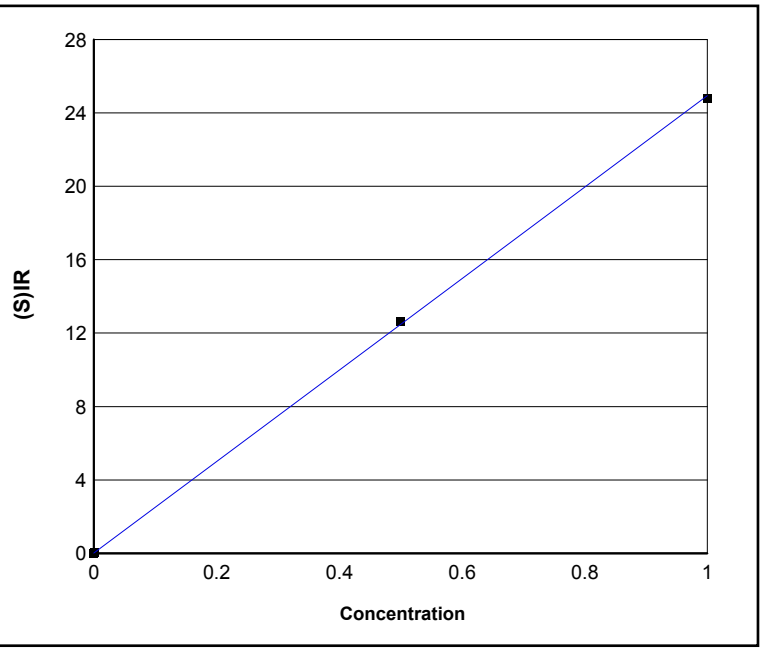
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000005898	0.0000005898	0.00000	0.0023284	0.00011745	1
IC-4195955	0.020000	0.019437	-0.00056254	-2.8127	0.014339	0.000034519	1
IC-4207542	0.50000	0.49808	-0.0019180	-0.38361	0.31487	0.00081915	1
IC-4207541	1.0000	1.0025	0.0024718	0.24718	0.63125	0.010223	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.011548
A1 (Gain):	7.4284
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

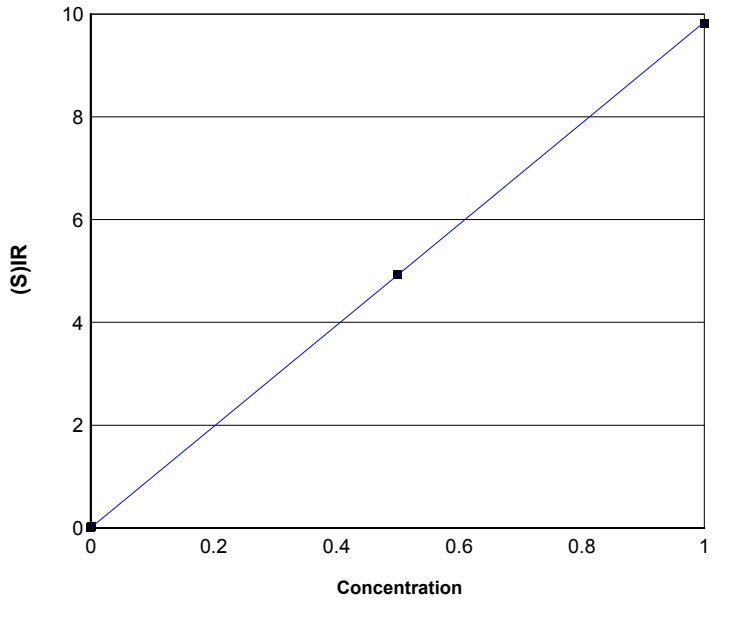
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001837	-0.0000001837	0.00000	0.011547	0.00019606	1
IC-4195955	0.0020000	0.0021839	0.00018386	9.1931	0.027771	0.0000064490	1
IC-4207542	0.50000	0.50012	0.00012070	0.024140	3.7267	0.010032	1
IC-4207541	1.0000	0.99970	-0.00030456	-0.030456	7.4377	0.020804	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.011697
A1 (Gain):	24.921
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

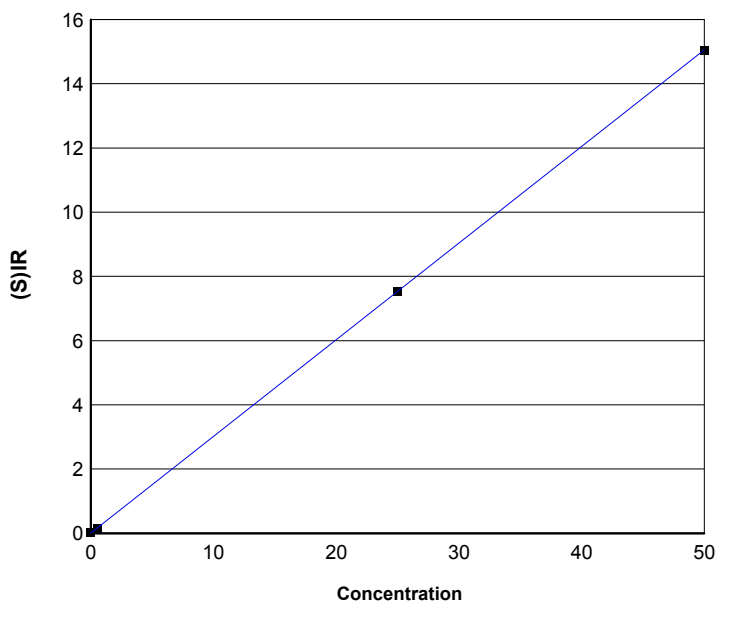
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000912	-0.0000000912	0.00000	0.011695	0.00069682	1
IC-4195955	0.0020000	0.0020799	0.000079887	3.9944	0.063529	0.00065783	1
IC-4207542	0.50000	0.50572	0.0057235	1.1447	12.615	0.031232	1
IC-4207541	1.0000	0.99420	-0.0058034	-0.58034	24.788	0.17655	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0019889
A1 (Gain):	9.8411
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

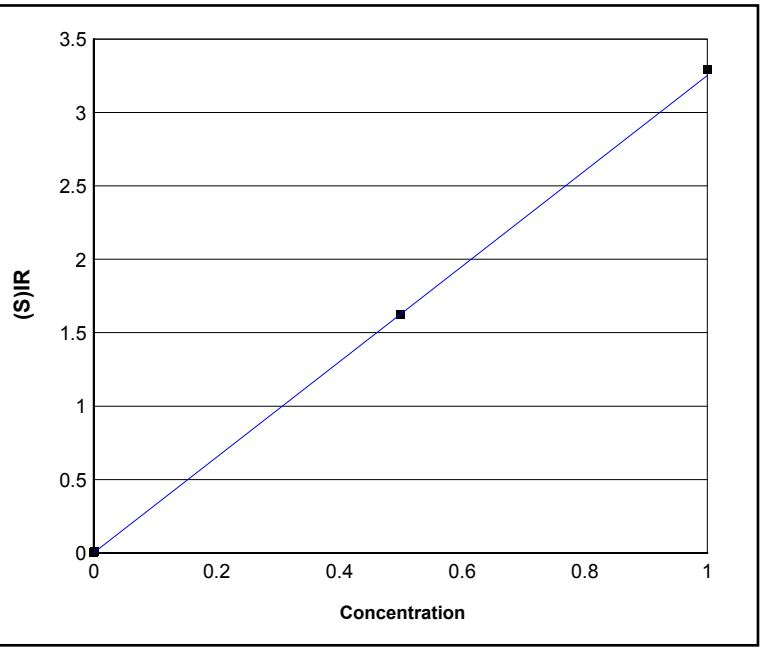
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000665	-0.0000000665	0.00000	0.0019882	0.00049639	1
IC-4195955	0.0020000	0.0020623	0.000062283	3.1142	0.022249	0.00019998	1
IC-4207542	0.50000	0.50218	0.0021800	0.43600	4.9405	0.0011791	1
IC-4207541	1.0000	0.99776	-0.0022422	-0.22422	9.8140	0.058844	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.010999
A1 (Gain):	0.30089
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

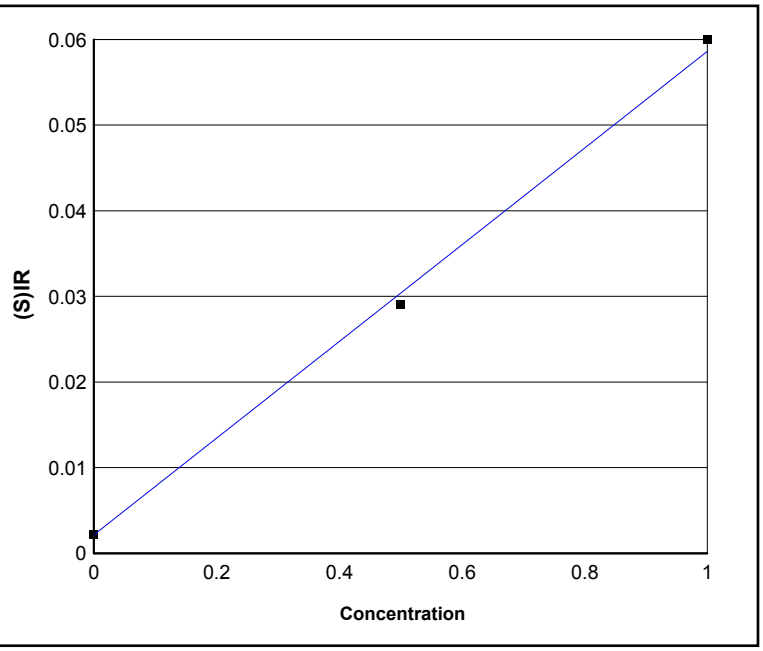
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000070602	-0.0000070602	0.00000	0.010997	0.00044959	1
IC-4195955	0.50000	0.50681	0.0068113	1.3623	0.16349	0.0012910	1
IC-4207542	25.000	25.032	0.031698	0.12679	7.5428	0.0062498	1
IC-4207541	50.000	49.961	-0.038510	-0.077019	15.044	0.084218	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00098078
A1 (Gain):	3.2516
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

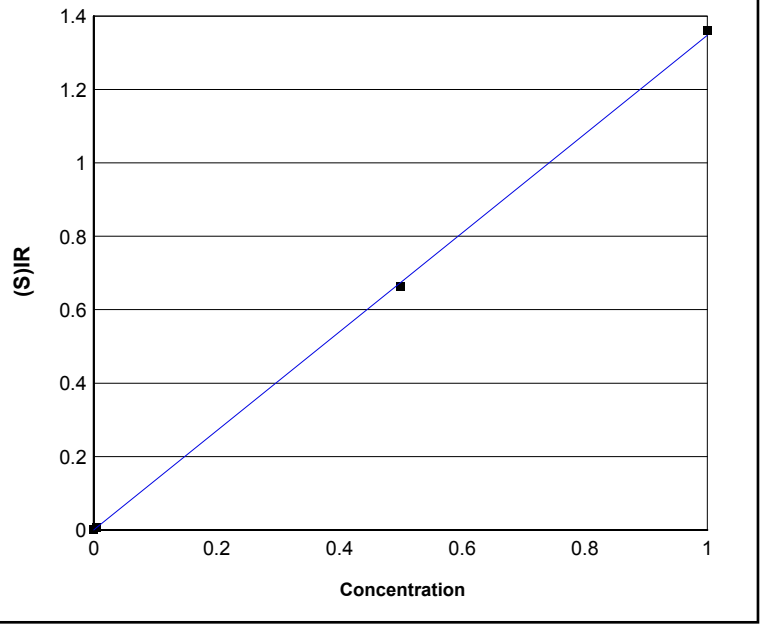
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001498	-0.0000001498	0.00000	0.00098029	0.00052310	1
IC-4195955	0.0020000	0.0021592	0.00015920	7.9601	0.0083918	0.00034517	1
IC-4207542	0.50000	0.49548	-0.0045164	-0.90329	1.6250	0.00012304	1
IC-4207541	1.0000	1.0043	0.0043490	0.43490	3.2926	0.051016	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.9994
A0 (Offset):	0.002168
A1 (Gain):	0.05646
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

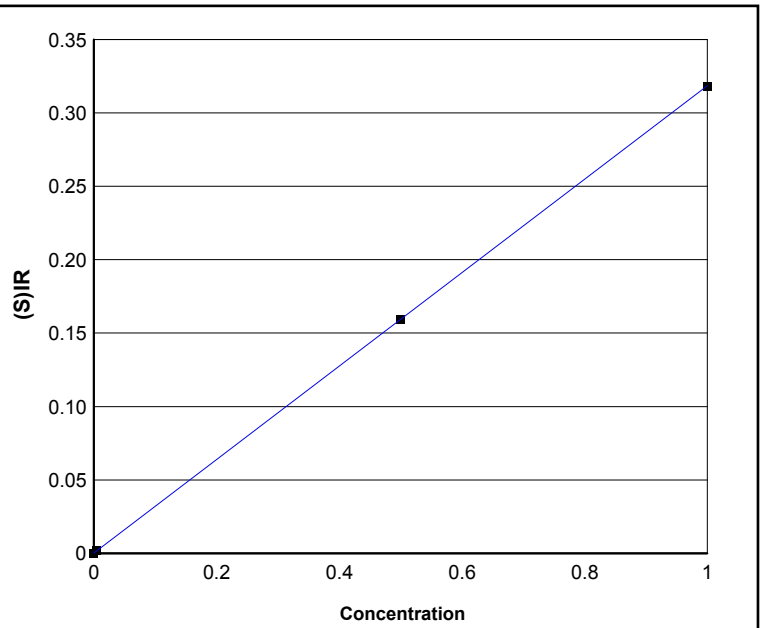
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000	0.00001208	0.00001208	0.0000	0.002169	0.0002877	1
IC-4207542	0.5000	0.4758	-0.02417	-4.833	0.02903	0.001504	1
IC-4207541	1.000	1.024	0.02417	2.417	0.05999	0.002001	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00019635
A1 (Gain):	1.3475
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

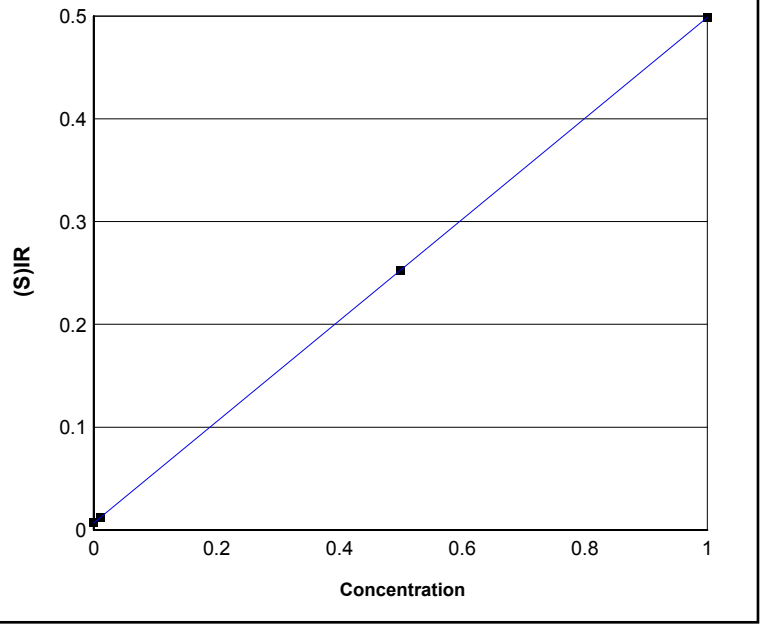
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002223	0.0000002223	0.00000	0.00019665	0.000017775	1
IC-4195955	0.0040000	0.0038139	-0.00018614	-4.6535	0.0053335	0.00016891	1
IC-4207542	0.50000	0.49077	-0.0092319	-1.8464	0.66210	0.00097005	1
IC-4207541	1.0000	1.0094	0.0094178	0.94178	1.3616	0.022436	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00019047
A1 (Gain):	0.31827
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

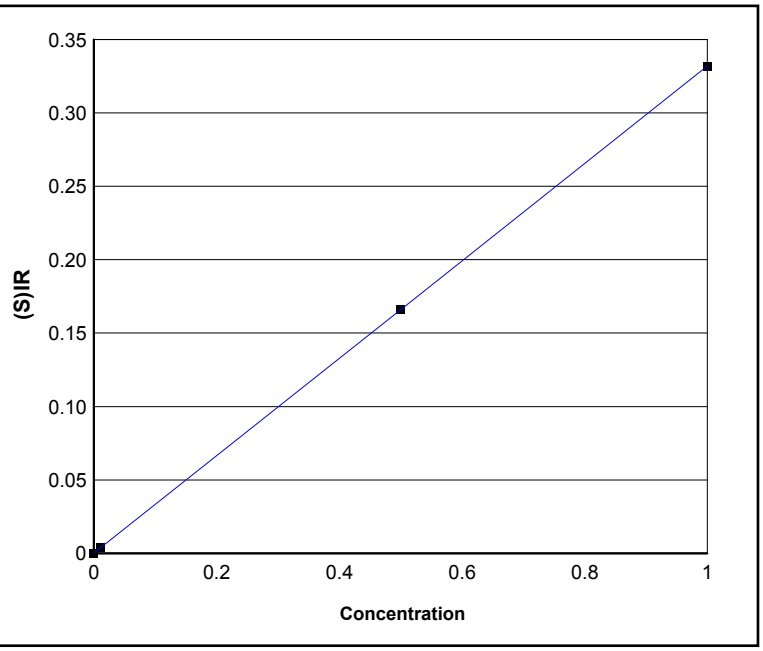
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001801	-0.0000001801	0.00000	0.00019041	0.000021894	1
IC-4195955	0.0040000	0.0041773	0.00017735	4.4337	0.0015201	0.000037479	1
IC-4207542	0.50000	0.50087	0.00087141	0.17428	0.15959	0.00049972	1
IC-4207541	1.0000	0.99895	-0.0010488	-0.10488	0.31810	0.0013256	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0068139
A1 (Gain):	0.49208
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

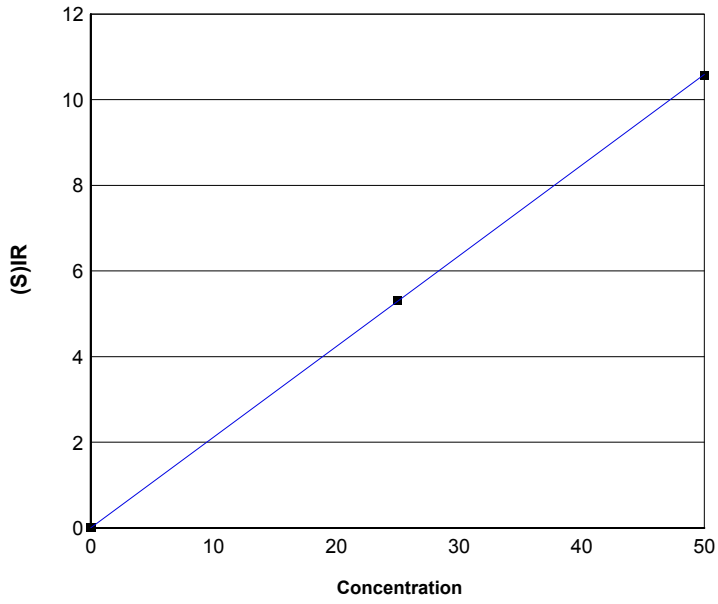
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000005873	-0.0000005873	0.00000	0.0068136	0.000066645	1
IC-4195955	0.010000	0.010593	0.00059275	5.9275	0.012026	0.00020500	1
IC-4207542	0.50000	0.50005	0.000047779	0.0095558	0.25288	0.000021973	1
IC-4207541	1.0000	0.99936	-0.00064053	-0.064053	0.49857	0.0014187	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00014969
A1 (Gain):	0.33177
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

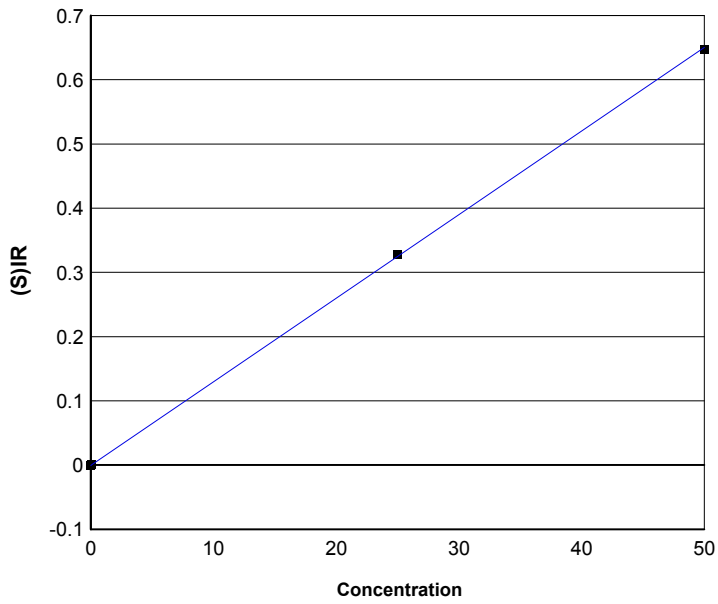
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000011328	-0.0000011328	0.00000	0.00014931	0.00020450	1
IC-4195955	0.010000	0.011146	0.0011456	11.456	0.0038515	0.00011946	1
IC-4207542	0.50000	0.49987	-0.00013391	-0.026782	0.16615	0.0010156	1
IC-4207541	1.0000	0.99899	-0.0010120	-0.10120	0.33191	0.0015577	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0031646
A1 (Gain):	0.21174
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

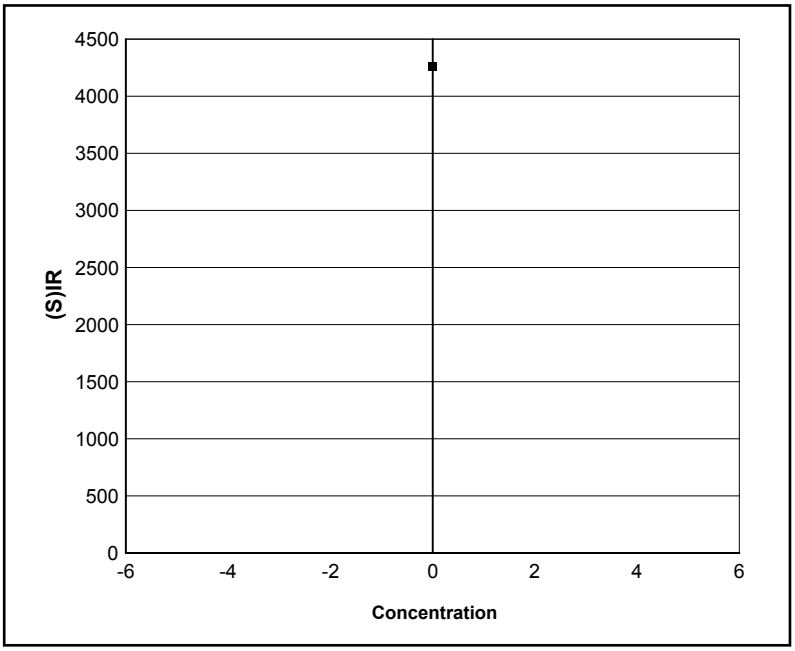
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000010076	-0.0000010076	0.00000	0.0031643	0.00038163	1
IC-4195955	0.050000	0.050884	0.00088398	1.7680	0.013939	0.00082205	1
IC-4207542	25.000	25.124	0.12446	0.49784	5.3231	0.0024624	1
IC-4207541	50.000	49.875	-0.12534	-0.25069	10.564	0.022819	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	-0.00062032
A1 (Gain):	0.013023
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

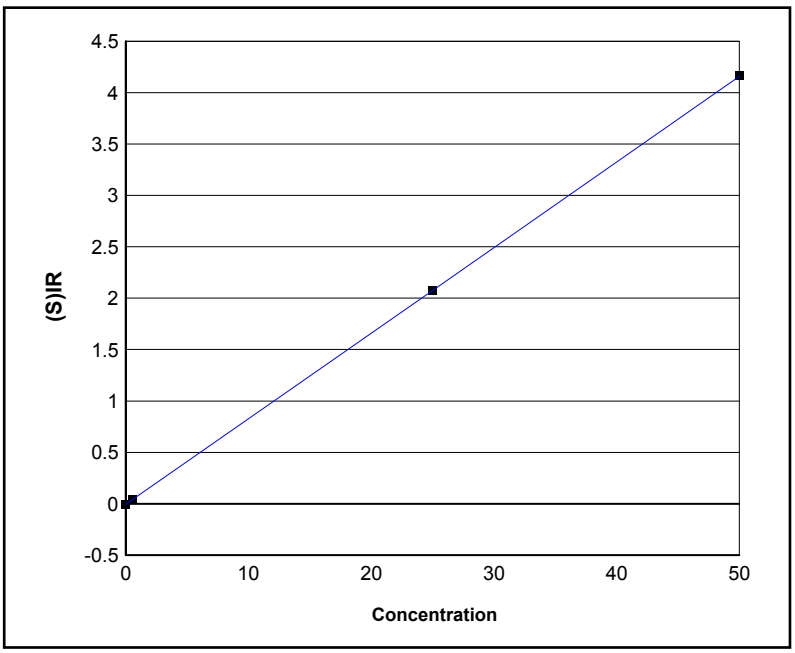
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	-0.000027879	-0.000027879	0.00000	-0.00062069	0.00038579	1
IC-4195955	0.050000	0.077634	0.027634	55.268	0.00039067	0.00033181	1
IC-4207542	25.000	25.273	0.27297	1.0919	0.32850	0.00051360	1
IC-4207541	50.000	49.699	-0.30060	-0.60120	0.64660	0.00013575	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:07:00PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

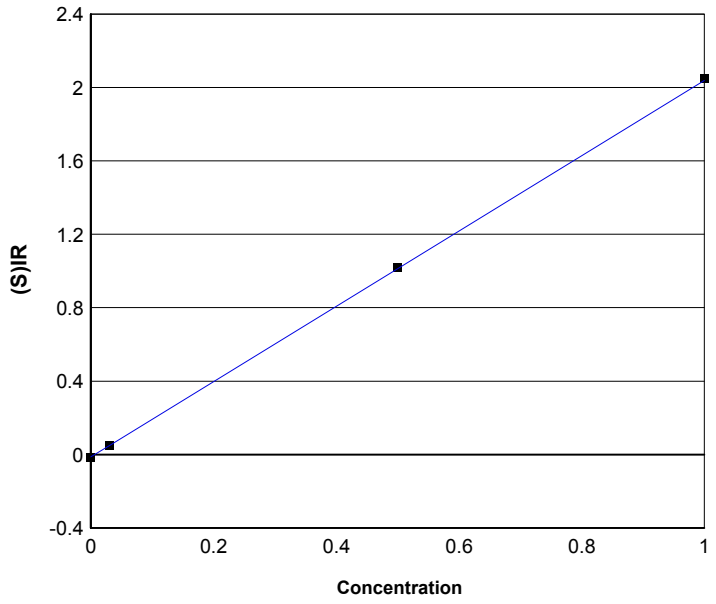
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	4,260	2.250	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0054102
A1 (Gain):	0.083305
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

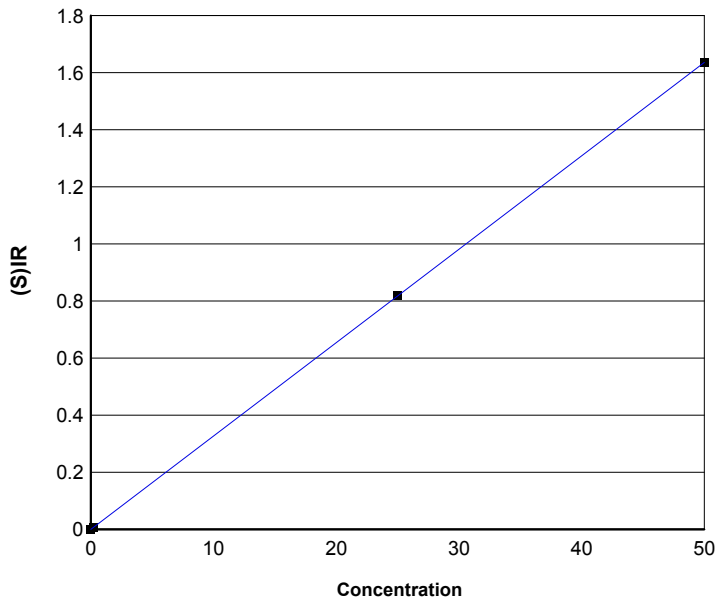
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	-0.000017356	-0.000017356	0.00000	-0.0054116	0.0012989	1
IC-4195955	0.50000	0.51829	0.018289	3.6579	0.037766	0.0027995	1
IC-4207542	25.000	24.925	-0.075076	-0.30030	2.0710	0.0042703	1
IC-4207541	50.000	50.057	0.056786	0.11357	4.1646	0.016379	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.013001
A1 (Gain):	2.0511
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

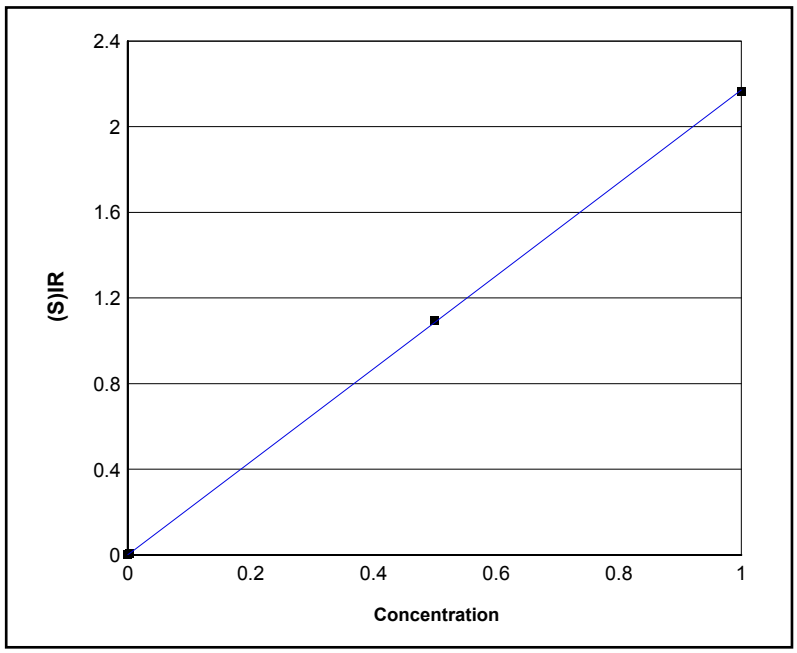
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002314	0.0000002314	0.00000	-0.013001	0.0030506	1
IC-4195955	0.030000	0.029759	-0.00024097	-0.80322	0.048140	0.0011793	1
IC-4207542	0.50000	0.50008	0.000077627	0.015525	1.0178	0.00042205	1
IC-4207541	1.0000	1.0002	0.00016254	0.016254	2.0487	0.0063732	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00029173
A1 (Gain):	0.032706
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

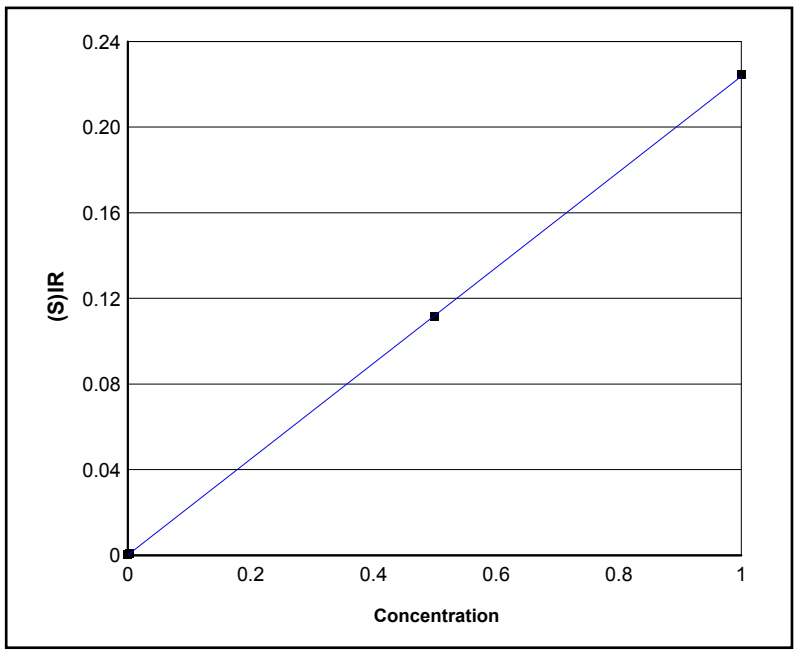
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	-0.000011705	-0.000011705	0.00000	0.00029135	0.000083437	1
IC-4195955	0.20000	0.21163	0.011632	5.8161	0.0072132	0.000070541	1
IC-4207542	25.000	25.030	0.029759	0.11904	0.81888	0.00058985	1
IC-4207541	50.000	49.959	-0.041392	-0.082783	1.6342	0.00017174	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0011460
A1 (Gain):	2.1704
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

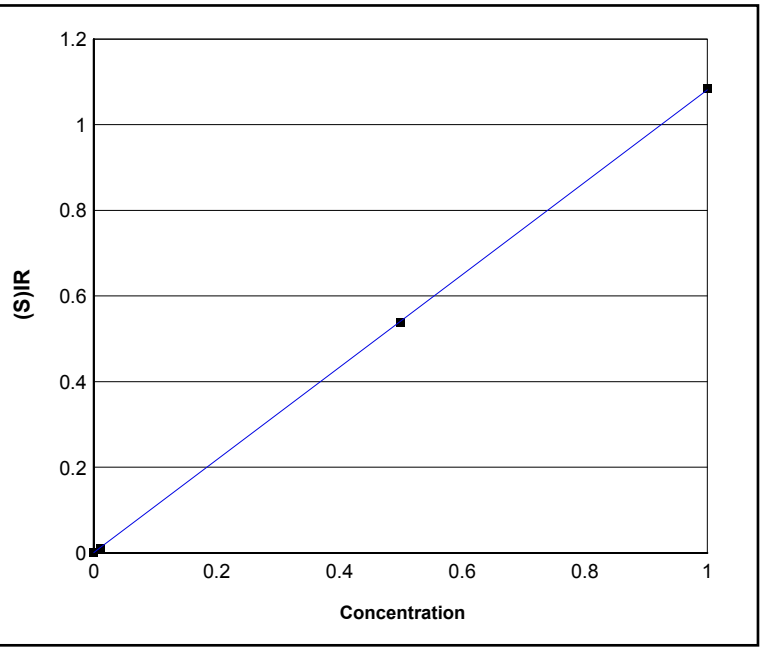
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001171	-0.0000001171	0.00000	0.0011457	0.000041243	1
IC-4195955	0.0030000	0.0031087	0.00010869	3.6231	0.0078957	0.00012888	1
IC-4207542	0.50000	0.50290	0.0029008	0.58016	1.0936	0.0016169	1
IC-4207541	1.0000	0.99699	-0.0030094	-0.30094	2.1669	0.0028468	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00022196
A1 (Gain):	0.22356
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

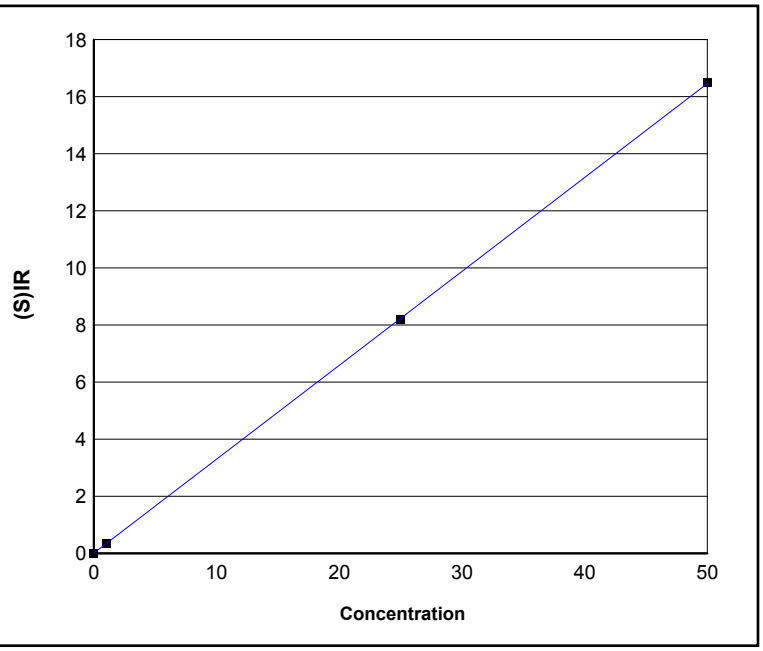
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001995	0.0000001995	0.00000	0.00022201	0.000081695	1
IC-4195955	0.0030000	0.0028063	-0.00019370	-6.4566	0.00084959	0.000086380	1
IC-4207542	0.50000	0.49788	-0.0021151	-0.42303	0.11163	0.000028230	1
IC-4207541	1.0000	1.0023	0.0023088	0.23088	0.22449	0.00028675	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00069656
A1 (Gain):	1.0810
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

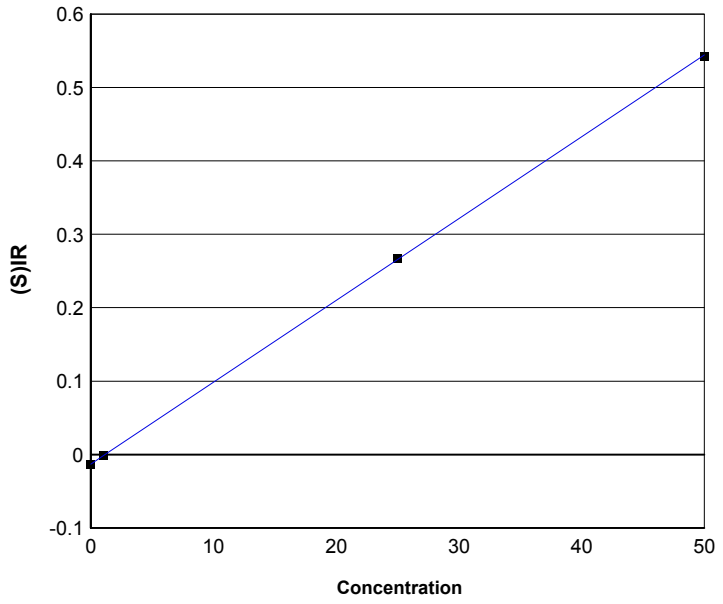
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000001071	0.0000001071	0.00000	0.00069668	0.00010598	1
IC-4195955	0.010000	0.0099145	-0.000085527	-0.85527	0.011414	0.000046346	1
IC-4207542	0.50000	0.49776	-0.0022387	-0.44773	0.53878	0.00054053	1
IC-4207541	1.0000	1.0023	0.0023242	0.23242	1.0842	0.014757	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0041176
A1 (Gain):	0.32907
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

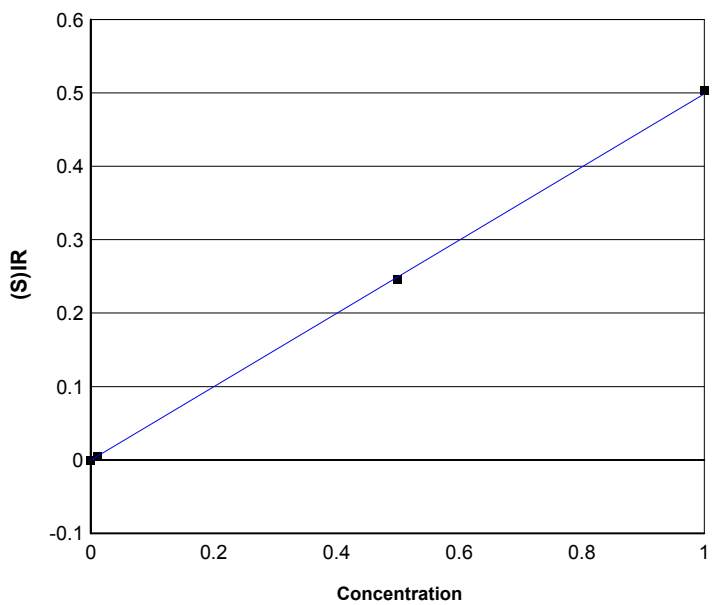
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000098938	-0.0000098938	0.00000	0.0041144	0.0023756	1
IC-4195955	1.0000	1.0129	0.012946	1.2946	0.33745	0.0027309	1
IC-4207542	25.000	24.860	-0.13966	-0.55862	8.1850	0.011324	1
IC-4207541	50.000	50.127	0.12671	0.25342	16.500	0.080564	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.012937
A1 (Gain):	0.011148
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

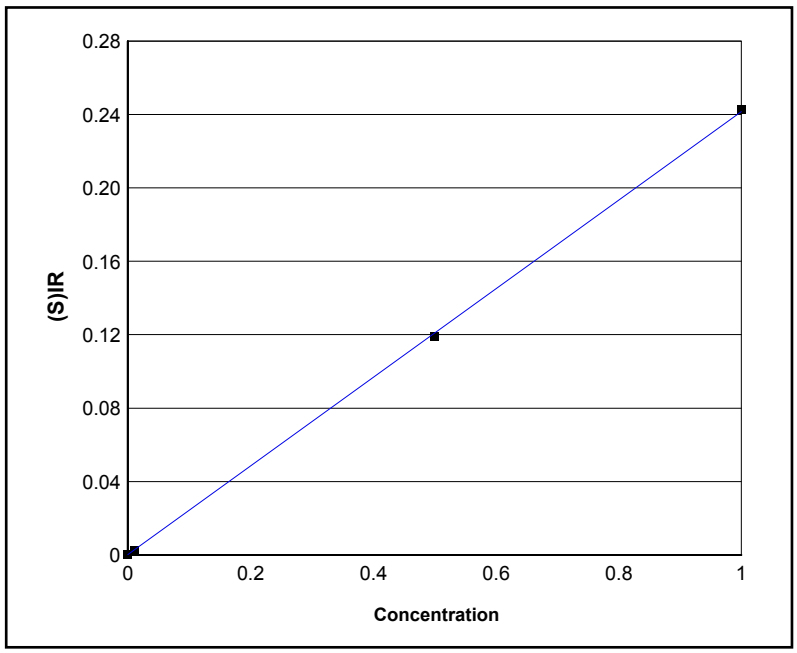
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	-0.000024832	-0.000024832	0.00000	-0.012937	0.0017465	1
IC-4195955	1.0000	1.0231	0.023097	2.3097	-0.0015312	0.000093849	1
IC-4207542	25.000	25.110	0.10987	0.43947	0.26699	0.0016198	1
IC-4207541	50.000	49.867	-0.13296	-0.26593	0.54298	0.00014608	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.00042653
A1 (Gain):	0.49914
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

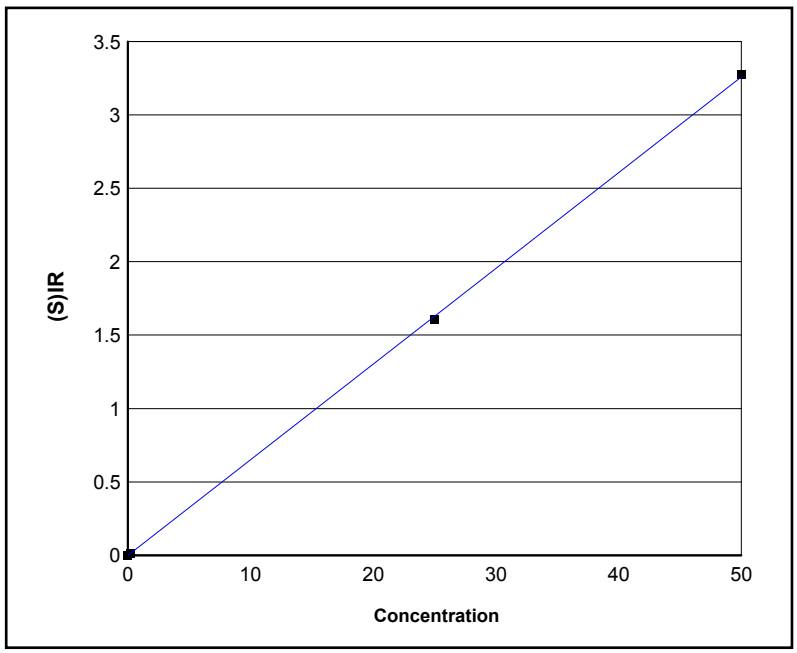
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000004559	0.0000004559	0.00000	-0.00042631	0.00026979	1
IC-4195955	0.010000	0.0096253	-0.00037466	-3.7466	0.0043784	0.000096980	1
IC-4207542	0.50000	0.49150	-0.0084997	-1.6999	0.24517	0.00085419	1
IC-4207541	1.0000	1.0089	0.0088740	0.88740	0.50368	0.0087346	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.00022517
A1 (Gain):	0.24138
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

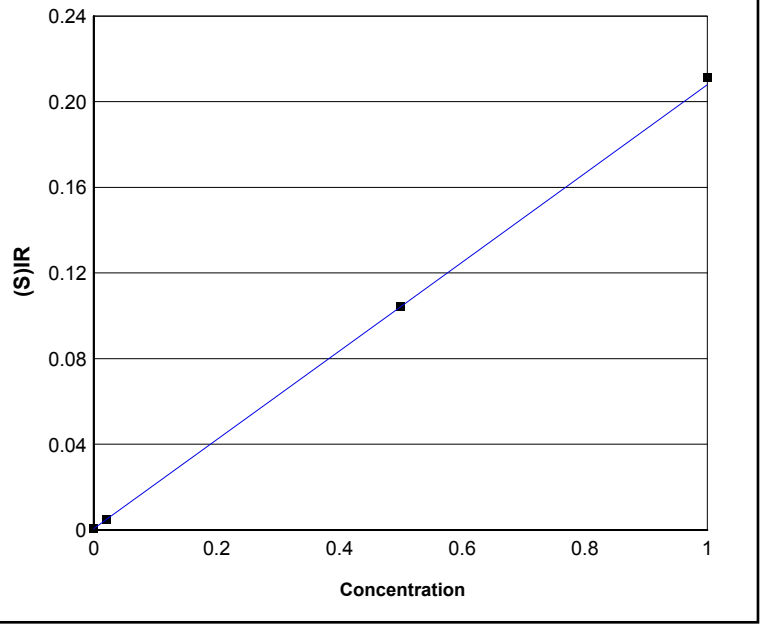
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002724	-0.0000002724	0.00000	0.00022511	0.000088828	1
IC-4195955	0.010000	0.010345	0.00034541	3.4541	0.0027170	0.00014074	1
IC-4207542	0.50000	0.49304	-0.0069605	-1.3921	0.11896	0.00033439	1
IC-4207541	1.0000	1.0066	0.0066151	0.66151	0.24265	0.0037123	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00016819
A1 (Gain):	0.065154
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

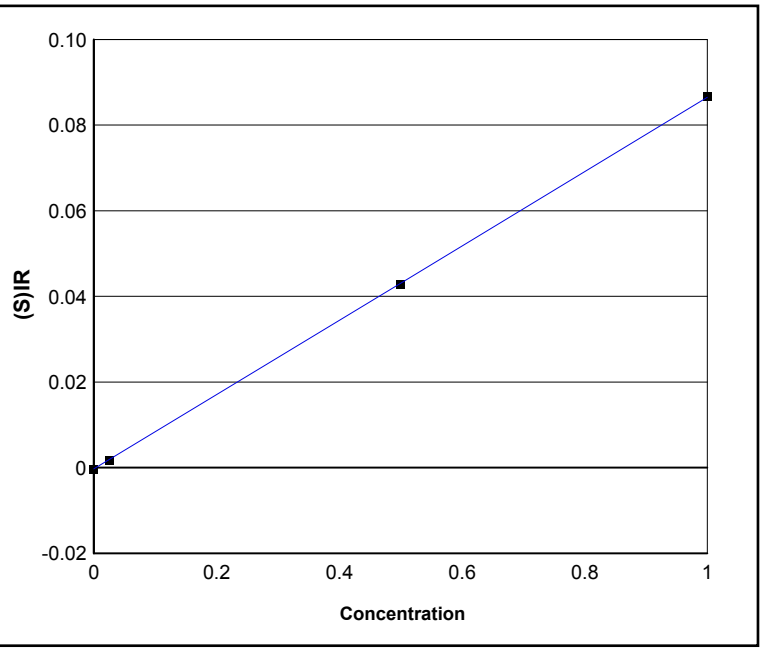
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000043602	0.0000043602	0.00000	0.00016847	0.000044039	1
IC-4195955	0.20000	0.19686	-0.0031356	-1.5678	0.012995	0.00010960	1
IC-4207542	25.000	24.691	-0.30929	-1.2372	1.6089	0.00091973	1
IC-4207541	50.000	50.312	0.31243	0.62486	3.2782	0.045402	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.00052927
A1 (Gain):	0.20737
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

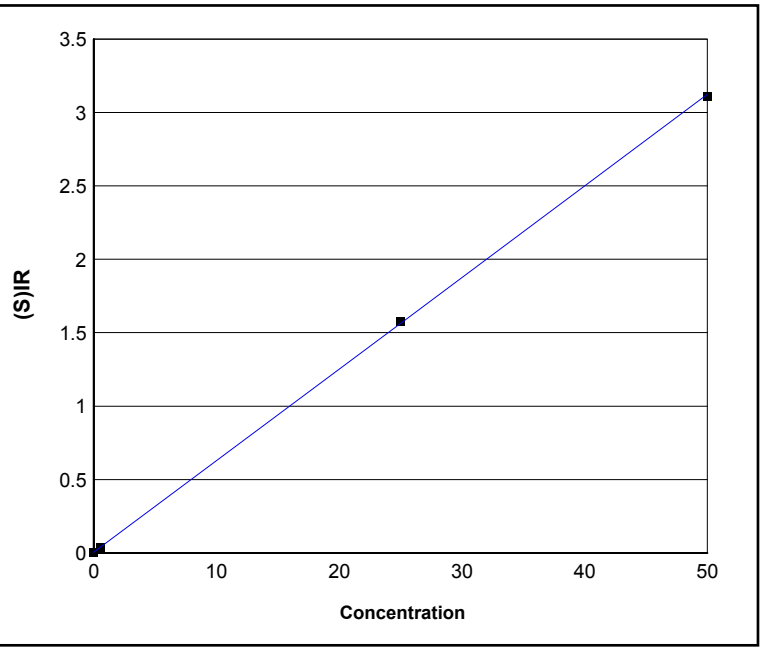
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000003249	-0.0000003249	0.00000	0.00052920	0.00020223	1
IC-4195955	0.020000	0.020429	0.00042900	2.1450	0.0047758	0.00011835	1
IC-4207542	0.50000	0.49522	-0.0047791	-0.95582	0.10443	0.00022896	1
IC-4207541	1.0000	1.0044	0.0043540	0.43540	0.21122	0.0033934	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	-0.00029014
A1 (Gain):	0.086822
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

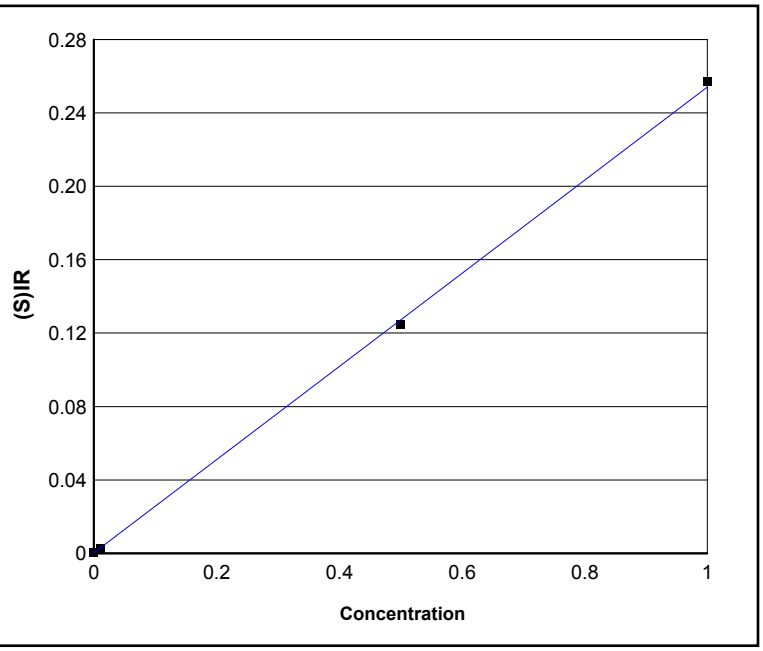
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000022515	0.0000022515	0.00000	-0.00028994	0.000062495	1
IC-4195955	0.025000	0.022751	-0.0022487	-8.9947	0.0016846	0.00011130	1
IC-4207542	0.50000	0.49764	-0.0023645	-0.47289	0.042848	0.0000043288	1
IC-4207541	1.0000	1.0046	0.0046160	0.46160	0.086797	0.0014566	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0046674
A1 (Gain):	0.062378
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

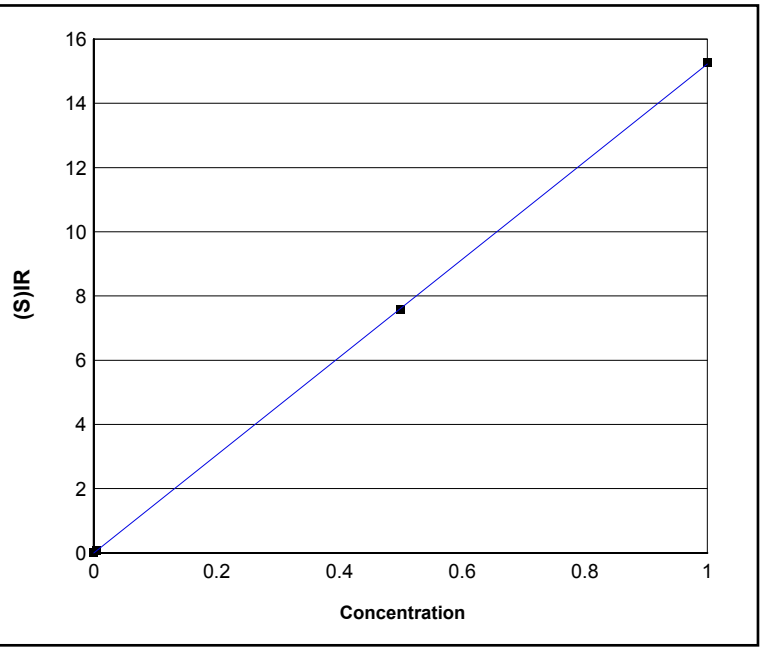
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000006982	-0.0000006982	0.00000	0.0046673	0.00066478	1
IC-4195955	0.50000	0.49846	-0.0015445	-0.30889	0.035760	0.00062212	1
IC-4207542	25.000	25.223	0.22272	0.89087	1.5780	0.0032876	1
IC-4207541	50.000	49.779	-0.22117	-0.44235	3.1098	0.022306	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	0.00019698
A1 (Gain):	0.25397
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

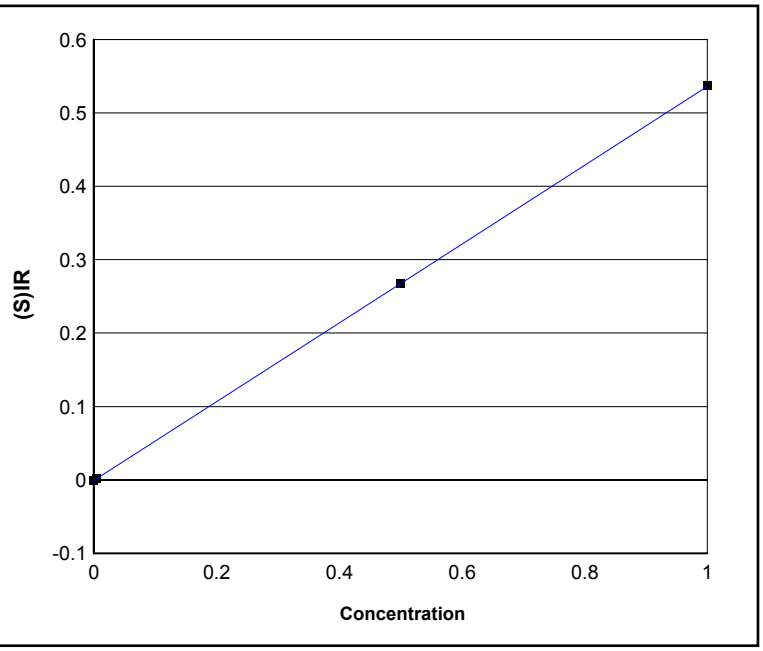
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000005468	0.0000005468	0.00000	0.00019712	0.0000033227	1
IC-4195955	0.010000	0.0095515	-0.00044853	-4.4853	0.0026228	0.000017467	1
IC-4207542	0.50000	0.48973	-0.010271	-2.0542	0.12457	0.000027461	1
IC-4207541	1.0000	1.0107	0.010720	1.0720	0.25689	0.0039607	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00056385
A1 (Gain):	15.228
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

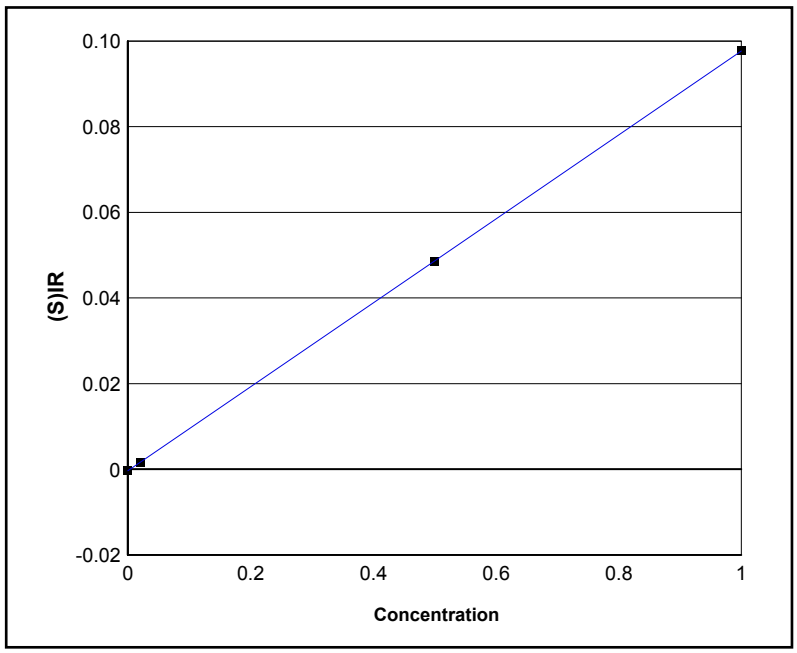
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000209	0.0000000209	0.00000	0.00056417	0.00079015	1
IC-4195955	0.0050000	0.0049891	-0.000010865	-0.21729	0.076538	0.0013740	1
IC-4207542	0.50000	0.49798	-0.0020241	-0.40482	7.5837	0.025545	1
IC-4207541	1.0000	1.0020	0.0020350	0.20350	15.259	0.11501	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00085059
A1 (Gain):	0.53681
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

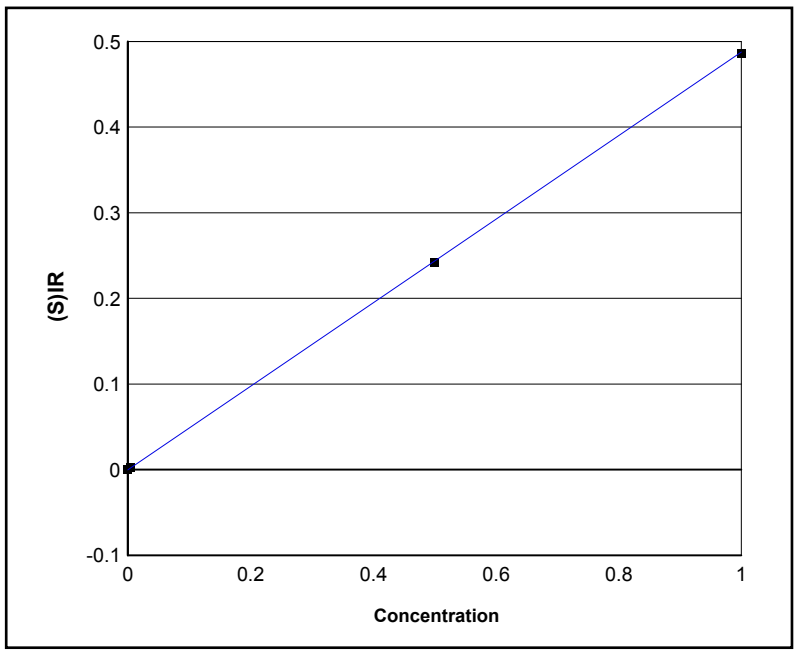
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002308	-0.0000002308	0.00000	-0.00085072	0.00034643	1
IC-4195955	0.0050000	0.0052390	0.00023895	4.7791	0.0019684	0.00018419	1
IC-4207542	0.50000	0.49861	-0.0013913	-0.27825	0.26718	0.00044498	1
IC-4207541	1.0000	1.0012	0.0011520	0.11520	0.53733	0.00095035	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00038403
A1 (Gain):	0.098061
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

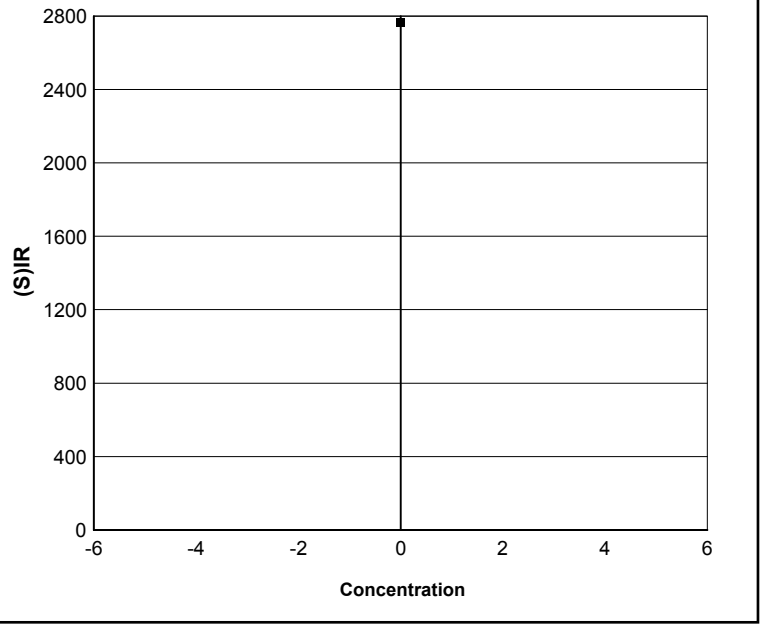
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000002045	0.0000002045	0.00000	-0.00038401	0.000013311	1
IC-4195955	0.020000	0.019803	-0.00019672	-0.98358	0.0015581	0.000090074	1
IC-4207542	0.50000	0.49941	-0.00058516	-0.11703	0.048662	0.000024032	1
IC-4207541	1.0000	1.0008	0.00078160	0.078160	0.097899	0.0013711	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00024087
A1 (Gain):	0.48788
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

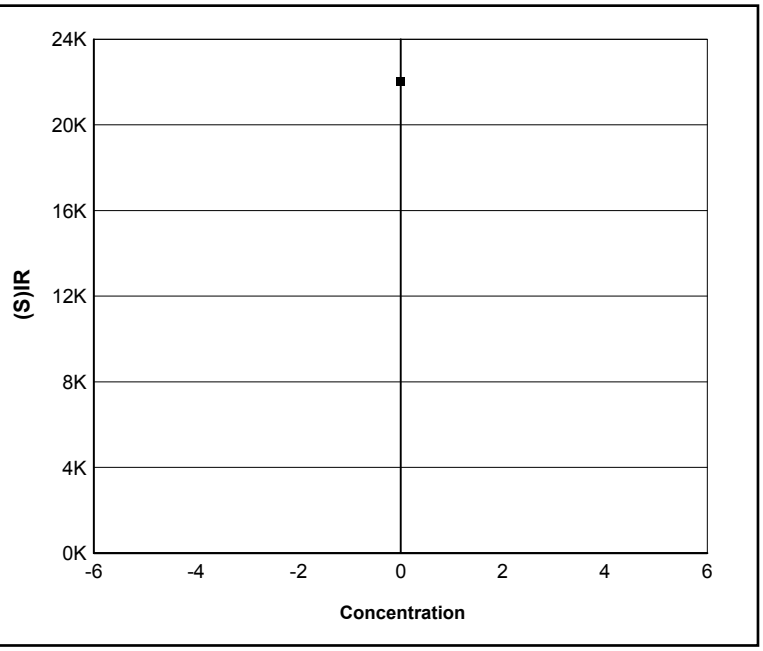
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000000203	0.0000000203	0.00000	-0.00024086	0.000090908	1
IC-4195955	0.0050000	0.0049861	-0.000013873	-0.27747	0.0021668	0.000057724	1
IC-4207542	0.50000	0.49869	-0.0013055	-0.26109	0.24204	0.00048379	1
IC-4207541	1.0000	1.0013	0.0013192	0.13192	0.48624	0.000068487	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:07:00PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

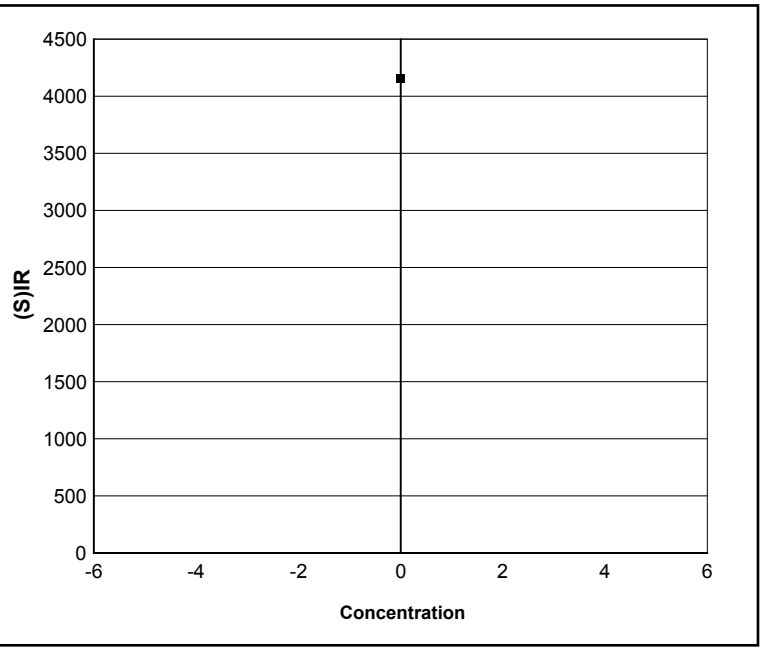
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	2,765	1.487	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:07:00PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

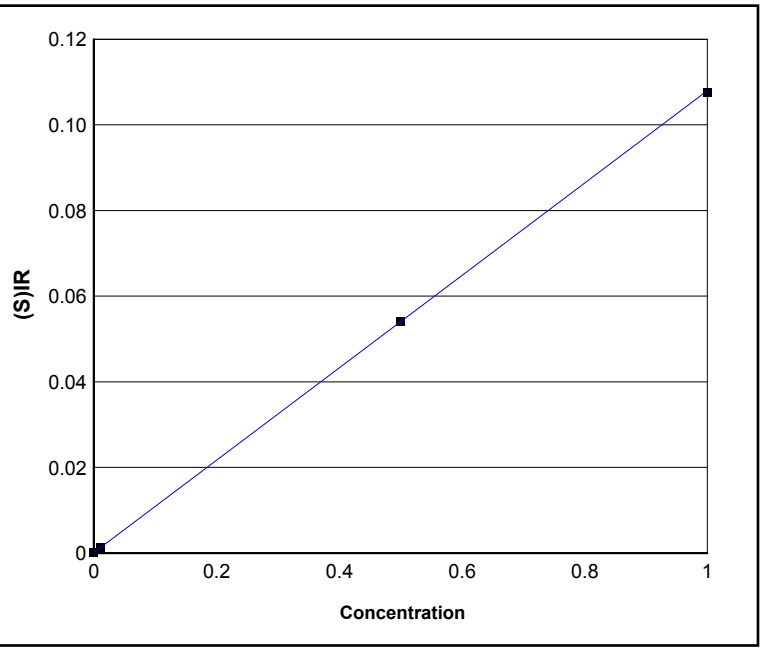
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	22,030	14.82	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:07:00PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.0000			0.0000	4,155	19.00	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	8/29/2017 2:17:28PM
Date of Fit:	8/29/2017 3:17:16PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.000067995
A1 (Gain):	0.10795
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-4204839	0.00000	0.0000015014	-0.0000015014	0.00000	0.000067833	0.0000073321	1
IC-4195955	0.010000	0.011505	0.0015046	15.046	0.0013091	0.000019291	1
IC-4207542	0.50000	0.50118	0.0011794	0.23588	0.054073	0.0000061298	1
IC-4207541	1.0000	0.99731	-0.0026857	-0.26857	0.10753	0.00030081	1

Sample Name: ICIS-4204839 Acquired: 8/29/2017 14:03:21 Type: Cal
Method: ICAP2 June 2017(v96) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00001**	**.00321**	**.00009**	**.00233**	**.01155**
Stddev	.00017	.00066	.00015	.00012	.00020
%RSD	1365.5	20.609	169.38	5.0442	1.6979
#1	-.00013	.00367	.00019	.00225	.01141
#2	.00011	.00274	-.00002	.00241	.01169

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01170**	**.00199**	**.01100**	**.00098**	**.0022**
Stddev	.00070	.00050	.00045	.00052	.0003
%RSD	5.9582	24.966	4.0884	53.362	13.26
#1	.01219	.00164	.01131	.00061	.0020
#2	.01120	.00234	.01068	.00135	.0024

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00020**	**.00019**	**.00015**	**.00316**	**-.00062**
Stddev	.00002	.00002	.00020	.00038	.00039
%RSD	9.0391	11.498	136.96	12.060	62.156
#1	.00018	.00017	.00029	.00343	-.00035
#2	.00021	.00021	.00000	.00289	-.00089

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00541**	**-.01300**	**.00029**	**.00115**	**.00022**
Stddev	.00130	.00305	.00008	.00004	.00008
%RSD	24.003	23.465	28.638	3.5997	36.798
#1	-.00449	-.01516	.00023	.00117	.00016
#2	-.00633	-.01084	.00035	.00112	.00028

Sample Name: ICIS-4204839 Acquired: 8/29/2017 14:03:21 Type: Cal
Method: ICAP2 June 2017(v96) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00070**	**.00411**	**-.01294**	**-.00043**	**.00023**
Stddev	.00011	.00238	.00175	.00027	.00009
%RSD	15.213	57.739	13.500	63.285	39.460
#1	.00077	.00579	-.01417	-.00024	.00016
#2	.00062	.00243	-.01170	-.00062	.00029

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00017**	**.00053**	**-.00029**	**.00467**	**.00020**
Stddev	.00004	.00020	.00006	.00066	.00000
%RSD	26.140	38.214	21.554	14.243	1.6857
#1	.00020	.00039	-.00033	.00514	.00019
#2	.00014	.00067	-.00025	.00420	.00020

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00056**	**-.00085**	**-.00038**	**-.00024**	**.00007**
Stddev	.00079	.00035	.00001	.00009	.00001
%RSD	140.05	40.722	3.4662	37.743	10.809
#1	.00001	-.00110	-.00039	-.00018	.00006
#2	.00112	-.00061	-.00037	-.00031	.00007

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4260.4**	**2765.0**	**22031.**	**4154.5**
Stddev	2.2	1.5	15.	19.0
%RSD	.05280	.05378	.06728	.45730
#1	4258.8	2763.9	22021.	4168.0
#2	4262.0	2766.0	22042.	4141.1

Sample Name: IC-4195955 Acquired: 8/29/2017 14:07:04 Type: Cal
Method: ICAP2 June 2017(v96) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00226**	**.01044**	**.00160**	**.01434**	**.02777**
Stddev	.00015	.00066	.00021	.00003	.00001
%RSD	6.6336	6.2920	13.143	.24074	.02322
#1	.00237	.01091	.00145	.01431	.02777
#2	.00216	.00998	.00175	.01436	.02778

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.06353**	**.02225**	**.16349**	**.00839**	**.00533**
Stddev	.00066	.00020	.00129	.00035	.00017
%RSD	1.0355	.89882	.78962	4.1133	3.1670
#1	.06306	.02211	.16258	.00864	.00545
#2	.06399	.02239	.16441	.00815	.00521

Elem	Cr2677	Cu3273	Fe2599	Fe2714	K_7664
Line	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}	766.490 { 44}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00152**	**.00385**	**.01394**	**.00039**	**.03777**
Stddev	.00004	.00012	.00082	.00033	.00280
%RSD	2.4655	3.1015	5.8976	84.933	7.4127
#1	.00155	.00377	.01452	.00016	.03975
#2	.00149	.00394	.01336	.00063	.03579

Elem	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020
Line	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2	202.030 {467}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.04814**	**.00721**	**.00790**	**.00085**	**.01141**
Stddev	.00118	.00007	.00013	.00009	.00005
%RSD	2.4497	.97794	1.6322	10.167	.40603
#1	.04897	.00726	.00780	.00079	.01145
#2	.04731	.00716	.00799	.00091	.01138

Sample Name: IC-4195955 Acquired: 8/29/2017 14:07:04 Type: Cal
Method: ICAP2 June 2017(v96) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820
Line	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.33745**	**-.00153**	**.00438**	**.00272**	**.01299**
Stddev	.00273	.00009	.00010	.00014	.00011
%RSD	.80927	6.1291	2.2150	5.1801	.84345
#1	.33552	-.00160	.00445	.00282	.01307
#2	.33938	-.00146	.00431	.00262	.01292

Elem	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Line	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}	407.771 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00478**	**.00168**	**.03576**	**.00262**	**.07654**
Stddev	.00012	.00011	.00062	.00002	.00137
%RSD	2.4780	6.6068	1.7397	.66598	1.7952
#1	.00486	.00176	.03620	.00264	.07557
#2	.00469	.00161	.03532	.00261	.07751

Elem	Ti3349	Tl1908	V_2924	Zn2062
Line	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00197**	**.00156**	**.00217**	**.00131**
Stddev	.00018	.00009	.00006	.00002
%RSD	9.3572	5.7812	2.6639	1.4736
#1	.00210	.00162	.00213	.00132
#2	.00184	.00149	.00221	.00130

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4231.8**	**2769.9**	**21883.**	**4161.7**
Stddev	2.6	2.1	8.	5.2
%RSD	.06253	.07429	.03856	.12519
#1	4233.6	2768.4	21877.	4165.4
#2	4229.9	2771.3	21889.	4158.0

Sample Name: IC-4207542 Acquired: 8/29/2017 14:10:43 Type: Cal
Method: ICAP2 June 2017(v96) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.19626**	**1.0705**	**.05132**	**.31487**	**3.7267**
Stddev	.00147	.0037	.00020	.00082	.0100
%RSD	.74672	.34149	.38112	.26015	.26919
#1	.19522	1.0731	.05145	.31429	3.7196
#2	.19729	1.0680	.05118	.31545	3.7338

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**12.615**	**4.9405**	**7.5428**	**1.6250**	**.0290**
Stddev	.031	.0012	.0063	.0001	.0015
%RSD	.24759	.02387	.08286	.00757	5.180
#1	12.637	4.9413	7.5472	1.6251	.0280
#2	12.593	4.9397	7.5384	1.6250	.0301

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.66210**	**.15959**	**.16615**	**5.3231**	**.32850**
Stddev	.00097	.00050	.00102	.0025	.00051
%RSD	.14651	.31313	.61122	.04626	.15635
#1	.66278	.15924	.16687	5.3213	.32886
#2	.66141	.15994	.16543	5.3248	.32814

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.0710**	**1.0178**	**.81888**	**1.0936**	**.11163**
Stddev	.0043	.0004	.00059	.0016	.00003
%RSD	.20620	.04147	.07203	.14785	.02529
#1	2.0679	1.0181	.81846	1.0947	.11165
#2	2.0740	1.0175	.81930	1.0925	.11161

Sample Name: IC-4207542 Acquired: 8/29/2017 14:10:43 Type: Cal
Method: ICAP2 June 2017(v96) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.53878**	**8.1850**	**.26699**	**.24517**	**.11896**
Stddev	.00054	.0113	.00162	.00085	.00033
%RSD	.10033	.13835	.60671	.34841	.28110
#1	.53840	8.1930	.26584	.24456	.11920
#2	.53916	8.1770	.26813	.24577	.11872

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.6089**	**.10443**	**.04285**	**1.5780**	**.12457**
Stddev	.0009	.00023	.00000	.0033	.00003
%RSD	.05717	.21925	.01010	.20834	.02204
#1	1.6095	.10459	.04285	1.5803	.12459
#2	1.6082	.10427	.04284	1.5757	.12455

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**7.5837**	**.26718**	**.04866**	**.24204**	**.05407**
Stddev	.0256	.00044	.00002	.00048	.00001
%RSD	.33684	.16654	.04939	.19988	.01134
#1	7.6018	.26750	.04864	.24170	.05408
#2	7.5656	.26687	.04868	.24238	.05407

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3795.6**	**2697.5**	**21020.**	**4156.5**
Stddev	1.3	1.5	23.	11.6
%RSD	.03553	.05450	.10844	.27974
#1	3794.6	2696.5	21004.	4148.3
#2	3796.5	2698.6	21037.	4164.7

Sample Name: IC-4207541 Acquired: 8/29/2017 14:14:07 Type: Cal
Method: ICAP2 June 2017(v96) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.39682**	**2.1366**	**.10489**	**.63125**	**7.4377**
Stddev	.00075	.0099	.00143	.01022	.0208
%RSD	.18807	.46525	1.3652	1.6195	.27971
#1	.39734	2.1296	.10388	.62402	7.4230
#2	.39629	2.1437	.10591	.63847	7.4524

Elem	Ba4554-2	Be3130	Ca3179	Cd2288	**Ce4040
Line	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**24.788**	**9.8140**	**15.044**	**3.2926**	**.0600**
Stddev	.177	.0588	.084	.0510	.0020
%RSD	.71223	.59959	.55981	1.5494	3.335
#1	24.663	9.7724	14.984	3.2565	.0614
#2	24.913	9.8557	15.103	3.3287	.0586

Elem	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Line	228.616 {447}	267.716 {126}	327.396 {103}	259.940 {130}	271.441 {124}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.3616**	**.31810**	**.33191**	**10.564**	**.64660**
Stddev	.0224	.00133	.00156	.023	.00014
%RSD	1.6478	.41671	.46932	.21601	.02099
#1	1.3457	.31717	.33301	10.548	.64669
#2	1.3774	.31904	.33081	10.580	.64650

Elem	K_7664	Li6707	Mg2790	Mn2576	Mn2576-2
Line	766.490 { 44}	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.1646**	**2.0487**	**1.6342**	**2.1669**	**.22449**
Stddev	.0164	.0064	.0002	.0029	.00029
%RSD	.39329	.31109	.01051	.13137	.12773
#1	4.1530	2.0442	1.6340	2.1649	.22429
#2	4.1761	2.0532	1.6343	2.1689	.22469

Sample Name: IC-4207541 Acquired: 8/29/2017 14:14:07 Type: Cal
Method: ICAP2 June 2017(v96) Mode: IR Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.0842**	**16.500**	**.54298**	**.50368**	**.24265**
Stddev	.0148	.081	.00015	.00873	.00371
%RSD	1.3611	.48828	.02690	1.7342	1.5299
#1	1.0738	16.443	.54308	.49750	.24002
#2	1.0947	16.556	.54288	.50985	.24527

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.2782**	**.21122**	**.08680**	**3.1098**	**.25689**
Stddev	.0454	.00339	.00146	.0223	.00396
%RSD	1.3850	1.6066	1.6781	.71728	1.5418
#1	3.2461	.20882	.08577	3.0940	.25409
#2	3.3103	.21362	.08783	3.1256	.25969

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.259**	**.53733**	**.09790**	**.48624**	**.10753**
Stddev	.115	.00095	.00137	.00007	.00030
%RSD	.75370	.17686	1.4005	.01409	.27974
#1	15.178	.53800	.09693	.48619	.10732
#2	15.341	.53666	.09887	.48629	.10775

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3544.8**	**2611.5**	**20536.**	**4108.1**
Stddev	48.9	32.6	82.	26.8
%RSD	1.3798	1.2472	.39694	.65148
#1	3579.4	2634.5	20594.	4127.1
#2	3510.3	2588.4	20479.	4089.2

Sample Name: ICV-4204840 Acquired: 8/29/2017 14:17:32 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37431**	**18.102**	**.37093**	**.37591**	**.37507**
Stddev	.00434	.054	.00140	.00003	.00319
%RSD	1.1599	.29867	.37786	.00796	.85055
#1	.37124	18.064	.36993	.37589	.37281
#2	.37738	18.140	.37192	.37593	.37732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.37893**	**18.703**	**.37302**	**-.0003**	**.36427**
Stddev	.00173	.114	.00027	.0261	.00077
%RSD	.45765	.61187	.07205	8843.	.21152
#1	.37770	18.622	.37283	-.0187	.36482
#2	.38015	18.784	.37321	.0181	.36373
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38197**	**.38026**	**18.462**	**18.763**	**.37224**
Stddev	.00177	.00238	.129	.103	.00034
%RSD	.46401	.62621	.70084	.54877	.09133
#1	.38071	.37858	18.371	18.691	.37200
#2	.38322	.38194	18.554	18.836	.37249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4204840 Acquired: 8/29/2017 14:17:32 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.821**	**.38521**	**.37215**	**18.738**	**.36990**
Stddev	.111	.00254	.00089	.071	.00051
%RSD	.58834	.65897	.23981	.37817	.13891
#1	18.742	.38341	.37152	18.688	.36953
#2	18.899	.38700	.37278	18.788	.37026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36763**	**18.629**	**.37195**	**.36890**	**18.464**
Stddev	.00041	.015	.00045	.00330	.126
%RSD	.11203	.08151	.12102	.89324	.68014
#1	.36792	18.640	.37227	.37123	18.375
#2	.36734	18.619	.37163	.36657	18.553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38060**	**.37161**	**.37174**	**.37694**	**.37478**
Stddev	.00008	.00095	.00313	.00083	.00199
%RSD	.02199	.25676	.84202	.21974	.53045
#1	.38066	.37094	.36953	.37636	.37337
#2	.38054	.37229	.37395	.37753	.37618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICV-4204840 Acquired: 8/29/2017 14:17:32 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.37395
Stddev	.00431
%RSD	1.1537
#1	.37090
#2	.37700
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3872.8	2720.8	21326.	4153.2
Stddev	11.8	8.5	183.	28.7
%RSD	.30499	.31167	.85791	.69093
#1	3881.1	2726.8	21455.	4173.5
#2	3864.4	2714.8	21197.	4132.9

Sample Name: ICB-4204839 Acquired: 8/29/2017 14:28:38 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00061**	**-.02385**	**-.00118**	**-.00092**	**-.00007**
Stddev	.00034	.01098	.00031	.00038	.00001
%RSD	55.457	46.012	26.543	41.022	13.093
#1	-.00084	-.01609	-.00141	-.00118	-.00007
#2	-.00037	-.03162	-.00096	-.00065	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00203**	**.00004**	**-.0038**	**-.00010**
Stddev	.00007	.00044	.00008	.0009	.00015
%RSD	433.31	21.925	215.36	24.68	148.29
#1	-.00006	-.00171	.00010	-.0031	-.00021
#2	.00003	-.00234	-.00002	-.0044	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.00029**	**-.00426**	**.01458**	**-.00121**
Stddev	.00041	.00038	.00112	.00450	.00041
%RSD	88.382	132.33	26.329	30.852	33.741
#1	-.00017	-.00055	-.00505	.01776	-.00150
#2	-.00075	-.00002	-.00346	.01140	-.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4204839 Acquired: 8/29/2017 14:28:38 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00411**	**-.00006**	**-.00028**	**-.00442**	**-.00021**
Stddev	.00461	.00004	.00031	.01075	.00037
%RSD	112.28	58.005	110.72	243.24	176.31
#1	-.00085	-.00009	-.00049	.00318	.00005
#2	-.00737	-.00004	-.00006	-.01202	-.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00059**	**-.00252**	**-.00101**	**.00081**	**-.00674**
Stddev	.00008	.00046	.00046	.00175	.00555
%RSD	14.207	18.172	45.904	214.71	82.339
#1	-.00053	-.00284	-.00134	-.00042	-.00281
#2	-.00065	-.00220	-.00068	.00205	-.01066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**-.00012**	**.00012**	**.00048**	**-.00006**
Stddev	.00024	.00007	.00004	.00084	.00066
%RSD	432.59	59.292	36.644	174.37	1145.3
#1	-.00011	-.00007	.00015	-.00011	.00041
#2	.00022	-.00017	.00009	.00107	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICB-4204839 Acquired: 8/29/2017 14:28:38 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00015**
Stddev	.00034
%RSD	225.22
#1	.00009
#2	-.00039
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4236.2**	**2760.7**	**21959.**	**4200.4**
Stddev	38.6	24.6	73.	4.3
%RSD	.91216	.89237	.33165	.10338
#1	4263.5	2778.1	21908.	4203.5
#2	4208.9	2743.2	22011.	4197.3

Sample Name: ICVL-4195955 Acquired: 8/29/2017 14:32:16 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00501**	**.16764**	**.01483**	**.01895**	**.00202**
Stddev	.00012	.01844	.00063	.00048	.00000
%RSD	2.3774	11.000	4.2693	2.5489	.16017
#1	.00510	.15460	.01528	.01861	.00202
#2	.00493	.18068	.01438	.01929	.00202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.50189**	**.00217**	**-.0223**	**.00382**
Stddev	.00004	.00082	.00003	.0032	.00005
%RSD	1.9850	.16413	1.1638	14.13	1.3615
#1	.00200	.50130	.00215	-.0201	.00379
#2	.00194	.50247	.00219	-.0245	.00386
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00464**	**.01010**	**.04422**	**.45314**	**.02887**
Stddev	.00011	.00025	.00208	.00468	.00073
%RSD	2.4734	2.4972	4.6946	1.0330	2.5386
#1	.00472	.01028	.04569	.45645	.02835
#2	.00456	.00992	.04275	.44983	.02939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4195955 Acquired: 8/29/2017 14:32:16 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20629**	**.00303**	**.00964**	**1.0053**	**.00939**
Stddev	.00672	.00001	.00008	.0017	.00036
%RSD	3.2552	.16705	.81921	.16819	3.8146
#1	.21104	.00303	.00970	1.0041	.00965
#2	.20154	.00303	.00958	1.0065	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01024**	**.19364**	**.01999**	**.02392**	**.48439**
Stddev	.00018	.00336	.00049	.00404	.00943
%RSD	1.7939	1.7350	2.4638	16.904	1.9462
#1	.01011	.19126	.01964	.02678	.47773
#2	.01037	.19602	.02034	.02106	.49106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00921**	**.00485**	**.00474**	**.01984**	**.00519**
Stddev	.00014	.00018	.00001	.00034	.00034
%RSD	1.4725	3.7173	.15887	1.7090	6.5776
#1	.00911	.00497	.00474	.02008	.00495
#2	.00930	.00472	.00473	.01960	.00543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICVL-4195955 Acquired: 8/29/2017 14:32:16 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01099
Stddev	.00018
%RSD	1.6324
#1	.01086
#2	.01111
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4233.1	2771.2	22005.	4162.7
Stddev	1.3	1.5	164.	5.6
%RSD	.03139	.05447	.74566	.13362
#1	4234.0	2772.3	22121.	4166.6
#2	4232.2	2770.1	21889.	4158.8

Sample Name: ICSA-4090634 Acquired: 8/29/2017 14:35:54 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00203**	**458.13**	**.00317**	**.00326**	**.00057**
Stddev	.00114	2.50	.00008	.00063	.00001
%RSD	55.815	.54644	2.4221	19.326	2.1976
#1	-.00284	456.36	.00322	.00281	.00056
#2	-.00123	459.90	.00311	.00371	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**445.68**	**-.00042**	**.0346**	**-.00116**
Stddev	.00001	3.54	.00014	.0688	.00001
%RSD	5.9963	.79375	32.834	198.6	.50203
#1	-.00024	443.18	-.00032	-.0140	-.00115
#2	-.00022	448.19	-.00052	.0832	-.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**-.00435**	**174.64**	**-.02544**	**-.01205**
Stddev	.00016	.00015	.80	.00260	.00051
%RSD	34.744	3.4372	.46044	10.230	4.2217
#1	.00059	-.00424	174.07	-.02360	-.01241
#2	.00035	-.00445	175.21	-.02729	-.01169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 8/29/2017 14:35:54 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**487.49**	**-.00021**	**-.00187**	**.01687**	**-.00169**
Stddev	2.68	.00012	.00023	.00802	.00000
%RSD	.54928	56.187	12.077	47.545	.20931
#1	485.60	-.00013	-.00171	.02255	-.00169
#2	489.38	-.00029	-.00203	.01120	-.00170
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00130**	**.03139**	**-.01029**	**-.00525**	**.03942**
Stddev	.00316	.00448	.00183	.00237	.01802
%RSD	242.18	14.263	17.734	45.116	45.712
#1	-.00354	.03456	-.00900	-.00357	.02668
#2	.00093	.02823	-.01159	-.00692	.05217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00168**	**.02952**	**.00014**	**-.00120**	**.00165**
Stddev	.00053	.00008	.00000	.00032	.00049
%RSD	31.620	.26404	2.1011	26.449	29.390
#1	.00206	.02946	.00015	-.00098	.00200
#2	.00131	.02957	.00014	-.00143	.00131
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICSA-4090634 Acquired: 8/29/2017 14:35:54 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00521
Stddev	.00011
%RSD	2.0910
#1	.00529
#2	.00514
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3081.2	2468.4	18829.	4099.0
Stddev	1.3	1.1	92.	37.1
%RSD	.04361	.04466	.48739	.90553
#1	3080.2	2467.7	18894.	4125.3
#2	3082.1	2469.2	18764.	4072.8

Sample Name: ICSAB-4167458 Acquired: 8/29/2017 14:39:34 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.22573**	**515.98**	**.10967**	**.00107**	**.49544**
Stddev	.00031	3.79	.00349	.00077	.00035
%RSD	.13807	.73457	3.1820	72.074	.07124
#1	.22595	513.30	.10720	.00053	.49519
#2	.22551	518.66	.11213	.00162	.49569
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50968**	**474.47**	**1.0166**	**-.0046**	**.49084**
Stddev	.00375	1.62	.0004	.0168	.00005
%RSD	.73519	.34175	.04353	362.1	.01096
#1	.50703	473.32	1.0163	-.0165	.49087
#2	.51233	475.61	1.0169	.0072	.49080
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49037**	**.52555**	**95.672**	**-.07210**	**.50312**
Stddev	.00197	.00113	.693	.04300	.00403
%RSD	.40087	.21506	.72447	59.638	.80149
#1	.48898	.52475	95.182	-.04170	.50027
#2	.49176	.52635	96.162	-.10251	.50597
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None
Value					
Range					

Sample Name: ICSAB-4167458 Acquired: 8/29/2017 14:39:34 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**541.72**	**.50464**	**-.00047**	**.15589**	**.97247**
Stddev	.02	.00023	.00011	.00657	.00279
%RSD	.00362	.04489	22.308	4.2146	.28661
#1	541.71	.50448	-.00040	.15124	.97050
#2	541.74	.50480	-.00055	.16054	.97444
Check ?	Chk Pass	Chk Pass	None	None	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04904**	**1.0501**	**.59820**	**.05037**	**.99840**
Stddev	.00194	.0069	.00311	.00336	.00850
%RSD	3.9459	.66206	.52041	6.6605	.85147
#1	.04767	1.0452	.60041	.05274	.99239
#2	.05041	1.0550	.59600	.04800	1.0044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**.49155**	**.00104**	**.09580**	**.50913**
Stddev	.00033	.00249	.00015	.00229	.00101
%RSD	17.414	.50652	14.359	2.3950	.19920
#1	.00169	.48979	.00115	.09418	.50985
#2	.00216	.49331	.00093	.09742	.50841
Check ?	None	None	None	Chk Pass	Chk Pass
Value					
Range					

Sample Name: ICSAB-4167458 Acquired: 8/29/2017 14:39:34 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.94033**
Stddev	.00109
%RSD	.11618
#1	.94110
#2	.93956
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3007.7**	**2414.0**	**18388.**	**4056.6**
Stddev	2.6	1.4	15.	27.8
%RSD	.08606	.05847	.08120	.68579
#1	3005.8	2413.0	18377.	4076.2
#2	3009.5	2415.0	18398.	4036.9

Sample Name: ICEX1 Acquired: 8/29/2017 14:43:06 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.08707**	**4.9607**	**-.00160**	**-.00013**
Stddev	.00033	.00762	.0089	.00016	.00006
%RSD	63.908	8.7460	.17833	10.174	43.201
#1	-.00074	.08169	4.9544	-.00149	-.00009
#2	-.00028	.09246	4.9669	-.00172	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.03368**	**-.00009**	**-.0280**	**-.00011**
Stddev	.00005	.00246	.00004	.0091	.00001
%RSD	19.305	7.3128	41.734	32.48	7.8091
#1	.00028	.03194	-.00011	-.0345	-.00011
#2	.00021	.03542	-.00006	-.0216	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**27.476**	**-.00022**	**.01422**	**-.00064**
Stddev	.00062	1.194	.00062	.00933	.00042
%RSD	148.69	4.3463	279.38	65.585	65.014
#1	-.00085	28.321	.00022	.00763	-.00035
#2	.00002	26.632	-.00066	.02082	-.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/29/2017 14:43:06 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01315**	**.00060**	**-.00148**	**.00052**	**-.00024**
Stddev	.00264	.00006	.00007	.00260	.00002
%RSD	20.078	10.368	4.5331	504.27	6.6100
#1	.01501	.00065	-.00144	-.00132	-.00022
#2	.01128	.00056	-.00153	.00236	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00236**	**-.00256**	**.00111**	**-.00197**	**.00763**
Stddev	.00021	.00173	.00095	.00199	.01016
%RSD	9.0807	67.519	84.918	101.30	133.22
#1	-.00251	-.00379	.00045	-.00056	.00044
#2	-.00221	-.00134	.00178	-.00338	.01481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00017**	**.00040**	**.00963**	**5.2070**
Stddev	.00013	.00008	.00014	.00006	.2001
%RSD	25.541	45.792	34.686	.64533	3.8422
#1	-.00041	-.00012	.00050	.00968	5.3485
#2	-.00059	-.00023	.00030	.00959	5.0655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/29/2017 14:43:06 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00203**
Stddev	.00035
%RSD	17.145
#1	.00227
#2	.00178
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4190.2**	**2737.5**	**21167.**	**4144.6**
Stddev	2.4	2.0	798.	31.2
%RSD	.05669	.07291	3.7681	.75288
#1	4188.5	2736.1	20603.	4166.7
#2	4191.9	2738.9	21731.	4122.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.352%	99.006%	96.078%	99.762%
Range				

Sample Name: ICEX2 Acquired: 8/29/2017 14:46:46 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00192**	**.05091**	**-.00205**	**.01016**	**-.00012**
Stddev	.00039	.01432	.00039	.00004	.00001
%RSD	20.491	28.133	19.062	.40584	10.418
#1	-.00164	.06103	-.00233	.01013	-.00013
#2	-.00220	.04078	-.00178	.01019	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.02426**	**.00046**	**-.0223**	**.00109**
Stddev	.00005	.00242	.00001	.0267	.00032
%RSD	8.4550	9.9557	2.7295	119.8	29.181
#1	.00061	.02255	.00045	-.0034	.00086
#2	.00054	.02597	.00047	-.0412	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**-.00694**	**-.00518**	**-.04613**	**-.00125**
Stddev	.00024	.00080	.00154	.03575	.00056
%RSD	24.769	11.524	29.805	77.500	44.478
#1	.00080	-.00750	-.00628	-.07141	-.00165
#2	.00114	-.00637	-.00409	-.02085	-.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/29/2017 14:46:46 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01750**	**.00279**	**-.00030**	**.00891**	**.00435**
Stddev	.00113	.00011	.00006	.00108	.00003
%RSD	6.4463	3.8322	18.289	12.126	.61343
#1	.01670	.00272	-.00026	.00814	.00437
#2	.01830	.00287	-.00034	.00967	.00433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00160**	**.00288**	**.00541**	**-.00158**	**.27654**
Stddev	.00025	.00037	.00102	.00292	.01943
%RSD	15.504	12.722	18.786	184.90	7.0276
#1	.00177	.00314	.00612	.00049	.26280
#2	.00142	.00262	.00469	-.00365	.29028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.00013**	**19.766**	**20.461**	**-.00226**
Stddev	.00047	.00003	.027	.037	.00073
%RSD	143.17	26.359	.13437	.18254	32.457
#1	-.00066	-.00010	19.785	20.488	-.00174
#2	.00000	-.00015	19.747	20.435	-.00278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/29/2017 14:46:46 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00334
Stddev	.00016
%RSD	4.9418
#1	.00322
#2	.00345
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4186.3	2755.1	21911.	4207.1
Stddev	7.4	3.1	66.	6.5
%RSD	.17778	.11337	.30282	.15360
#1	4191.6	2757.3	21958.	4211.7
#2	4181.1	2752.9	21864.	4202.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.262%	99.643%	99.453%	101.27%
Range				

Sample Name: ICEX3 Acquired: 8/29/2017 14:50:22 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.01671**	**.00106**	**-.00157**	**-.00006**
Stddev	.00008	.03091	.00136	.00003	.00001
%RSD	36.979	184.95	128.40	1.8706	13.617
#1	-.00029	-.00514	.00010	-.00155	-.00005
#2	-.00017	.03857	.00202	-.00159	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.01790**	**.00023**	**-.1826**	**-.00017**
Stddev	.00007	.00112	.00004	.0374	.00011
%RSD	40.216	6.2392	17.365	20.46	66.884
#1	-.00012	.01711	.00020	-.1561	-.00025
#2	-.00021	.01869	.00026	-.2090	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**.00202**	**-.00677**	**-.04714**	**-.00174**
Stddev	.00007	.00016	.00075	.05015	.00102
%RSD	7.6167	7.8086	11.086	106.39	58.840
#1	.00081	.00213	-.00730	-.01168	-.00102
#2	.00091	.00191	-.00624	-.08261	-.00246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/29/2017 14:50:22 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.11300**	**50.923**	**-.00251**	**-.00184**	**.00007**
Stddev	.00118	.277	.00009	.00996	.00021
%RSD	1.0478	.54353	3.3861	541.70	322.97
#1	-.11384	51.119	-.00257	.00520	-.00009
#2	-.11216	50.727	-.00245	-.00888	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00476**	**97.879**	**-.00306**	**-.01142**	**-.02212**
Stddev	.00075	.260	.00069	.00221	.00501
%RSD	15.845	.26545	22.599	19.309	22.672
#1	.00422	98.063	-.00355	-.00986	-.01857
#2	.00529	97.695	-.00257	-.01298	-.02566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**-.00020**	**.00146**	**.00784**	**.00012**
Stddev	.00003	.00002	.00031	.00076	.00043
%RSD	5.1521	11.581	21.190	9.6896	356.02
#1	-.00067	-.00022	.00124	.00731	-.00018
#2	-.00062	-.00018	.00168	.00838	.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/29/2017 14:50:22 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00307
Stddev	.00104
%RSD	33.938
#1	.00380
#2	.00233
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4172.8	2758.9	21701.	4199.7
Stddev	4.5	4.1	151.	11.6
%RSD	.10813	.14836	.69586	.27567
#1	4169.6	2756.0	21594.	4207.9
#2	4176.0	2761.8	21808.	4191.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.943%	99.780%	98.502%	101.09%
Range				

Sample Name: ICEX4 Acquired: 8/29/2017 14:58:30 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00099**	**-.10631**	**-.00243**	**-.00303**	**-.00016**
Stddev	.00074	.00508	.00128	.00006	.00001
%RSD	75.271	4.7739	52.838	1.9083	7.0212
#1	-.00152	-.10990	-.00152	-.00307	-.00015
#2	-.00046	-.10272	-.00334	-.00299	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.01566**	**.00021**	**-.0116**	**18.823**
Stddev	.00001	.00230	.00002	.0164	.265
%RSD	3.5445	14.677	8.5911	140.8	1.4084
#1	-.00023	.01404	.00023	-.0232	18.636
#2	-.00024	.01729	.00020	-.0001	19.011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.523**	**.00762**	**-.00983**	**-.01073**	**-.00168**
Stddev	.020	.00040	.00157	.01167	.00023
%RSD	.18622	5.2775	16.017	108.77	13.851
#1	10.509	.00791	-.01094	-.01898	-.00184
#2	10.536	.00734	-.00872	-.00248	-.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/29/2017 14:58:30 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01153**	**.00127**	**-.00013**	**-.00634**	**-.00532**
Stddev	.00585	.00001	.00009	.00682	.00009
%RSD	50.790	.64382	67.770	107.55	1.6287
#1	-.01567	.00128	-.00020	-.00152	-.00538
#2	-.00739	.00127	-.00007	-.01117	-.00526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00311**	**.00572**	**.00396**	**-.00163**	**-.06609**
Stddev	.00066	.00020	.00340	.00133	.00464
%RSD	21.104	3.5712	85.778	81.561	7.0191
#1	-.00357	.00586	.00637	-.00069	-.06281
#2	-.00264	.00557	.00156	-.00257	-.06937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**-.00027**	**-.00068**	**.00647**	**.00009**
Stddev	.00003	.00004	.00033	.00080	.00025
%RSD	18.747	14.031	47.896	12.372	294.67
#1	.00017	-.00029	-.00092	.00704	.00027
#2	.00013	-.00024	-.00045	.00590	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/29/2017 14:58:30 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00265
Stddev	.00025
%RSD	9.4369
#1	.00283
#2	.00247
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4195.2	2721.9	21968.	4233.1
Stddev	51.6	33.2	51.	17.7
%RSD	1.2304	1.2190	.22998	.41715
#1	4231.7	2745.4	22004.	4220.6
#2	4158.7	2698.4	21933.	4245.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.470%	98.441%	99.714%	101.89%
Range				

Sample Name: ICEX5 Acquired: 8/29/2017 15:02:07 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00078**	**.02634**	**.00429**	**.01222**	**-.00023**
Stddev	.00055	.00868	.00144	.00041	.00003
%RSD	69.932	32.957	33.518	3.3909	13.262
#1	-.00117	.03248	.00327	.01193	-.00025
#2	-.00040	.02020	.00531	.01252	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.01467**	**-.00015**	**-.0123**	**.00034**
Stddev	.00008	.00002	.00014	.0099	.00013
%RSD	30.192	.14707	95.422	80.76	37.794
#1	-.00033	.01466	-.00005	-.0193	.00025
#2	-.00022	.01469	-.00025	-.0053	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.00219**	**-.01073**	**.02266**	**-.00078**
Stddev	.00022	.00079	.00297	.00438	.00078
%RSD	81.948	35.957	27.699	19.327	99.758
#1	-.00042	-.00274	-.01283	.01956	-.00023
#2	-.00011	-.00163	-.00863	.02576	-.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/29/2017 15:02:07 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.08337**	**.00126**	**4.9970**	**.02017**	**-.00054**
Stddev	.00006	.00009	.0046	.00130	.00019
%RSD	.06967	6.8473	.09227	6.4521	35.142
#1	-.08341	.00132	5.0003	.02109	-.00068
#2	-.08333	.00119	4.9937	.01925	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00102**	**-.01546**	**.00259**	**-.00053**	**-.05120**
Stddev	.00007	.00107	.00011	.00128	.00591
%RSD	7.1902	6.9121	4.2023	240.77	11.552
#1	-.00097	-.01470	.00251	.00037	-.04701
#2	-.00107	-.01621	.00266	-.00144	-.05538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00024**	**.00126**	**-.00074**	**-.00061**
Stddev	.00011	.00002	.00047	.00078	.00012
%RSD	146.45	8.2982	37.572	105.52	20.090
#1	-.00000	-.00023	.00159	-.00019	-.00053
#2	.00016	-.00026	.00092	-.00129	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/29/2017 15:02:07 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00136**
Stddev	.00006
%RSD	4.7599
#1	.00140
#2	.00131
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4204.1**	**2749.8**	**21863.**	**4194.7**
Stddev	4.8	7.5	18.	6.5
%RSD	.11411	.27421	.08070	.15520
#1	4200.7	2744.5	21851.	4190.1
#2	4207.5	2755.1	21876.	4199.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.679%	99.451%	99.238%	100.97%
Range				

Sample Name: CCV-4198708 Acquired: 8/29/2017 15:05:45 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52184**	**24.110**	**.49989**	**.50261**	**.49450**
Stddev	.00578	.054	.00120	.00078	.00232
%RSD	1.1069	.22333	.23937	.15530	.46975
#1	.51776	24.148	.50073	.50205	.49285
#2	.52592	24.072	.49904	.50316	.49614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50183**	**24.820**	**.50007**	**-.0315**	**.48665**
Stddev	.00056	.015	.00031	.0026	.00011
%RSD	.11228	.06173	.06140	8.263	.02297
#1	.50143	24.809	.49986	-.0297	.48673
#2	.50223	24.831	.50029	-.0333	.48657
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51012**	**.50575**	**24.354**	**25.008**	**.49590**
Stddev	.00414	.00301	.020	.087	.00274
%RSD	.81119	.59438	.08041	.34967	.55198
#1	.50720	.50363	24.368	25.070	.49396
#2	.51305	.50788	24.340	24.946	.49783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 15:05:45 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.134**	**.51073**	**.49400**	**25.008**	**.49288**
Stddev	.131	.00365	.00075	.051	.00002
%RSD	.51995	.71493	.15184	.20443	.00378
#1	25.042	.50815	.49453	25.044	.49289
#2	25.226	.51331	.49347	24.972	.49287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48957**	**25.300**	**.49388**	**.49891**	**24.163**
Stddev	.00113	.006	.00262	.00121	.119
%RSD	.23028	.02379	.53014	.24265	.49415
#1	.48878	25.296	.49203	.49976	24.078
#2	.49037	25.304	.49574	.49805	24.247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50712**	**.49836**	**.49535**	**.50008**	**.50151**
Stddev	.00019	.00021	.00455	.00139	.00324
%RSD	.03821	.04175	.91926	.27715	.64583
#1	.50726	.49821	.49213	.50106	.49922
#2	.50699	.49850	.49857	.49910	.50380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 15:05:45 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50651
Stddev	.00428
%RSD	.84544
#1	.50348
#2	.50954
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3840.8	2714.8	21202.	4165.2
Stddev	1.1	3.6	152.	7.2
%RSD	.02873	.13247	.71496	.17291
#1	3841.6	2717.4	21309.	4170.3
#2	3840.0	2712.3	21095.	4160.1

Sample Name: CCB-4204839 Acquired: 8/29/2017 15:09:08 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00076**	**-.04582**	**-.00141**	**-.00124**	**-.00021**
Stddev	.00028	.01731	.00093	.00012	.00002
%RSD	36.056	37.775	65.910	9.3162	11.463
#1	-.00057	-.05806	-.00075	-.00116	-.00022
#2	-.00096	-.03358	-.00206	-.00132	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00873**	**-.00017**	**-.0218**	**-.00023**
Stddev	.00004	.00414	.00001	.0140	.00014
%RSD	17.273	47.388	4.4468	64.29	60.742
#1	-.00028	-.01166	-.00018	-.0119	-.00013
#2	-.00022	-.00581	-.00017	-.0317	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**-.00021**	**-.01071**	**-.02126**	**-.00058**
Stddev	.00062	.00005	.00062	.01376	.00144
%RSD	100.67	25.055	5.7799	64.728	249.35
#1	.00105	-.00017	-.01115	-.03099	.00044
#2	.00018	-.00024	-.01027	-.01153	-.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 15:09:08 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00897**	**-.00008**	**-.00001**	**-.00803**	**-.00048**
Stddev	.00053	.00001	.00007	.00689	.00018
%RSD	5.9502	18.579	1085.2	85.798	38.077
#1	-.00934	-.00009	-.00005	-.01291	-.00035
#2	-.00859	-.00007	.00004	-.00316	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00917**	**-.00107**	**-.00042**	**-.02408**
Stddev	.00009	.00127	.00029	.00098	.00966
%RSD	169.91	13.881	27.101	233.00	40.127
#1	-.00001	-.01007	-.00086	.00027	-.01725
#2	.00011	-.00827	-.00127	-.00111	-.03092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**-.00027**	**.00007**	**-.00021**	**-.00007**
Stddev	.00020	.00001	.00029	.00071	.00026
%RSD	96.711	2.3832	401.03	332.35	364.89
#1	-.00035	-.00026	.00028	.00029	.00011
#2	-.00007	-.00027	-.00013	-.00071	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 15:09:08 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00033**
Stddev	.00010
%RSD	29.503
#1	-.00040
#2	-.00026
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4259.9**	**2762.7**	**21449.**	**4205.2**
Stddev	2.7	.0	615.	8.9
%RSD	.06426	.00173	2.8688	.21256
#1	4258.0	2762.8	21884.	4211.5
#2	4261.8	2762.7	21014.	4198.9

Sample Name: CCVL-4195955 Acquired: 8/29/2017 15:21:09 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00652**	**.15645**	**.01312**	**.01899**	**.00187**
Stddev	.00048	.01253	.00042	.00036	.00000
%RSD	7.3553	8.0096	3.1924	1.9054	.16183
#1	.00618	.16531	.01282	.01873	.00187
#2	.00686	.14759	.01342	.01924	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.48982**	**.00193**	**-.0076**	**.00353**
Stddev	.00001	.00217	.00011	.0394	.00012
%RSD	.50843	.44292	5.6567	521.1	3.4550
#1	.00197	.48828	.00200	.0203	.00361
#2	.00198	.49135	.00185	-.0355	.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00448**	**.01066**	**.03898**	**.45651**	**.02835**
Stddev	.00015	.00048	.00295	.02072	.00089
%RSD	3.3350	4.5284	7.5563	4.5388	3.1368
#1	.00437	.01032	.03690	.44186	.02772
#2	.00458	.01100	.04106	.47116	.02897
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 15:21:09 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19573**	**.00307**	**.00969**	**.98384**	**.00918**
Stddev	.00866	.00000	.00001	.01547	.00043
%RSD	4.4221	.10416	.06444	1.5720	4.6759
#1	.20185	.00307	.00969	.99478	.00888
#2	.18961	.00307	.00970	.97291	.00948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01014**	**.18719**	**.01924**	**.02570**	**.48084**
Stddev	.00136	.00030	.00241	.00101	.00441
%RSD	13.409	.16022	12.532	3.9216	.91696
#1	.00918	.18740	.01754	.02641	.47772
#2	.01110	.18698	.02095	.02499	.48396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00960**	**.00462**	**.00566**	**.02060**	**.00502**
Stddev	.00031	.00008	.00013	.00066	.00051
%RSD	3.2616	1.7165	2.3061	3.2239	10.228
#1	.00937	.00468	.00576	.02107	.00538
#2	.00982	.00457	.00557	.02013	.00465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 15:21:09 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01009
Stddev	.00037
%RSD	3.7096
#1	.01035
#2	.00982
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4224.4	2761.5	21895.	4207.2
Stddev	2.1	1.6	49.	5.5
%RSD	.05031	.05674	.22206	.12980
#1	4225.9	2760.3	21930.	4211.1
#2	4222.9	2762.6	21861.	4203.4

Sample Name: 480-123215-G-1-B Acquired: 8/29/2017 15:24:47 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**3.3308**	**-.00039**	**.21390**	**.05737**
Stddev	.00041	.0955	.00218	.00086	.00070
%RSD	207.21	2.8679	559.40	.40346	1.2285
#1	.00009	3.2633	.00115	.21329	.05787
#2	-.00048	3.3983	-.00193	.21451	.05687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**159.80**	**.00029**	**-.0218**	**.00145**
Stddev	.00003	1.37	.00019	.0188	.00001
%RSD	15.592	.85425	63.672	86.39	.97171
#1	-.00019	158.83	.00016	-.0085	.00146
#2	-.00015	160.76	.00042	-.0351	.00144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**.00178**	**2.6019**	**1.3425**	**.00282**
Stddev	.00015	.00047	.0279	.0652	.00000
%RSD	3.7365	26.227	1.0720	4.8586	.04231
#1	.00424	.00145	2.5822	1.2964	.00282
#2	.00402	.00211	2.6216	1.3887	.00283
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-1-B Acquired: 8/29/2017 15:24:47 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.228**	**.06580**	**.00265**	**15.673**	**.00552**
Stddev	.095	.00029	.00004	.116	.00024
%RSD	.23090	.43588	1.5504	.74071	4.2632
#1	41.161	.06560	.00262	15.591	.00536
#2	41.296	.06600	.00268	15.755	.00569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00290**	**56.577**	**-.00023**	**-.00243**	**12.615**
Stddev	.00016	.122	.00175	.00065	.380
%RSD	5.6683	.21524	765.53	26.740	3.0119
#1	.00278	56.491	.00101	-.00197	12.347
#2	.00302	56.663	-.00147	-.00288	12.884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.62169**	**.13498**	**-.00007**	**.00704**
Stddev	.00006	.00445	.00150	.00048	.00041
%RSD	12.910	.71505	1.1090	662.92	5.8385
#1	.00053	.61854	.13604	.00027	.00733
#2	.00044	.62483	.13393	-.00041	.00675
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-1-B Acquired: 8/29/2017 15:24:47 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01360
Stddev	.00018
%RSD	1.3037
#1	.01373
#2	.01348
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3701.2	2618.4	20802.	4204.7
Stddev	2.2	2.8	11.	55.2
%RSD	.05839	.10771	.05500	1.3135
#1	3702.7	2620.4	20811.	4243.8
#2	3699.7	2616.4	20794.	4165.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.875%	94.697%	94.423%	101.21%
Range				

Sample Name: 480-123215-G-2-B Acquired: 8/29/2017 15:28:20 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**1.0092**	**-.00224**	**.18842**	**.07394**
Stddev	.00055	.0228	.00062	.00069	.00005
%RSD	74.966	2.2607	27.825	.36669	.07146
#1	-.00034	1.0253	-.00180	.18891	.07398
#2	-.00111	.99307	-.00268	.18793	.07390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**149.94**	**.00021**	**-.0025**	**.00016**
Stddev	.00000	.13	.00010	.0051	.00005
%RSD	1.4467	.08408	49.093	205.0	30.263
#1	-.00028	150.03	.00014	.0011	.00020
#2	-.00028	149.85	.00028	-.0061	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00163**	**.00147**	**1.2794**	**1.7149**	**.00564**
Stddev	.00024	.00040	.0080	.0292	.00044
%RSD	14.722	27.105	.62697	1.7006	7.8578
#1	.00180	.00175	1.2851	1.6942	.00596
#2	.00146	.00119	1.2738	1.7355	.00533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-2-B Acquired: 8/29/2017 15:28:20 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.250**	**.04379**	**.00234**	**23.435**	**.00261**
Stddev	.045	.00016	.00028	.014	.00017
%RSD	.12134	.36920	11.867	.06101	6.6022
#1	37.282	.04390	.00214	23.446	.00273
#2	37.218	.04368	.00254	23.425	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00264**	**32.312**	**-.00118**	**-.00484**	**9.4551**
Stddev	.00029	.071	.00254	.00254	.0291
%RSD	11.085	.21849	214.36	52.505	.30799
#1	.00244	32.362	.00061	-.00304	9.4757
#2	.00285	32.262	-.00298	-.00664	9.4345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.68357**	**.02763**	**.00014**	**.00206**
Stddev	.00030	.00024	.00073	.00187	.00028
%RSD	63.908	.03460	2.6568	1372.2	13.477
#1	.00069	.68374	.02711	-.00118	.00225
#2	.00026	.68341	.02814	.00145	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-2-B Acquired: 8/29/2017 15:28:20 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01019**
Stddev	.00001
%RSD	.09207
#1	.01018
#2	.01019
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3704.6**	**2619.8**	**20655.**	**4194.6**
Stddev	2.5	3.1	61.	31.1
%RSD	.06765	.11693	.29774	.74088
#1	3702.8	2617.7	20612.	4172.6
#2	3706.4	2622.0	20699.	4216.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.955%	94.750%	93.754%	100.96%
Range				

Sample Name: 480-123215-G-3-B Acquired: 8/29/2017 15:31:54 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**1.4035**	**.00010**	**.09261**	**.05072**
Stddev	.00053	.0383	.00301	.00030	.00012
%RSD	151.49	2.7270	2961.2	.32833	.22746
#1	.00002	1.3764	.00223	.09282	.05080
#2	-.00073	1.4305	-.00203	.09239	.05064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**187.58**	**.00019**	**-.0145**	**.00064**
Stddev	.00004	.74	.00007	.0395	.00019
%RSD	13.652	.39527	38.938	272.1	28.921
#1	-.00029	188.10	.00014	.0134	.00077
#2	-.00024	187.05	.00024	-.0425	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.00062**	**1.4927**	**.85449**	**-.00050**
Stddev	.00049	.00049	.0058	.01221	.00056
%RSD	23.729	78.758	.38677	1.4289	112.38
#1	.00243	.00096	1.4886	.86313	-.00090
#2	.00173	.00027	1.4968	.84586	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-3-B Acquired: 8/29/2017 15:31:54 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.467**	**.04979**	**.00125**	**13.982**	**.00281**
Stddev	.169	.00021	.00008	.042	.00039
%RSD	.34780	.41396	6.0813	.30140	13.943
#1	48.586	.04994	.00131	14.012	.00309
#2	48.348	.04965	.00120	13.953	.00253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00243**	**66.947**	**.00044**	**-.00225**	**8.5319**
Stddev	.00135	.173	.00139	.00189	.0109
%RSD	55.381	.25822	313.45	83.911	.12806
#1	.00338	67.070	-.00054	-.00359	8.5242
#2	.00148	66.825	.00142	-.00092	8.5396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.59266**	**.03769**	**.00028**	**.00304**
Stddev	.00023	.00168	.00166	.00033	.00010
%RSD	79.475	.28324	4.3956	118.16	3.2695
#1	.00045	.59384	.03652	.00052	.00297
#2	.00013	.59147	.03886	.00005	.00311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123215-G-3-B Acquired: 8/29/2017 15:31:54 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.01013**
Stddev	.00018
%RSD	1.7448
#1	.01001
#2	.01026
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3674.4**	**2596.8**	**20628.**	**4202.5**
Stddev	1.1	3.2	53.	22.5
%RSD	.02973	.12348	.25721	.53514
#1	3675.2	2594.5	20590.	4186.6
#2	3673.6	2599.1	20665.	4218.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.245%	93.918%	93.630%	101.16%
Range				

Sample Name: 480-123173-B-9-B Acquired: 8/29/2017 15:35:28 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00393**	**-.00070**	**.04194**	**.11220**
Stddev	.00063	.00395	.00064	.00033	.00030
%RSD	139.41	100.51	91.838	.78084	.27173
#1	-.00090	-.00672	-.00115	.04217	.11242
#2	-.00001	-.00114	-.00024	.04171	.11199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**99.093**	**.00022**	**-.0074**	**-.00019**
Stddev	.00007	.009	.00014	.0307	.00008
%RSD	37.204	.00905	60.985	412.3	42.604
#1	-.00014	99.086	.00032	.0143	-.00024
#2	-.00024	99.099	.00013	-.0291	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00076**	**.21006**	**4.3249**	**.00287**
Stddev	.00010	.00108	.00153	.0025	.00320
%RSD	60.599	142.12	.72846	.05867	111.48
#1	-.00024	-.00000	.20897	4.3231	.00513
#2	-.00010	.00152	.21114	4.3267	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-9-B Acquired: 8/29/2017 15:35:28 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.375**	**.12484**	**.00031**	**7.7602**	**.00118**
Stddev	.076	.00009	.00022	.0073	.00000
%RSD	.21440	.07035	70.312	.09413	.12988
#1	35.428	.12490	.00015	7.7550	.00119
#2	35.321	.12478	.00046	7.7654	.00118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**16.834**	**-.00116**	**.00136**	**8.5135**
Stddev	.00047	.048	.00113	.00041	.0199
%RSD	62.113	.28684	98.077	30.284	.23439
#1	.00042	16.868	-.00196	.00107	8.5276
#2	.00108	16.800	-.00035	.00165	8.4994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.35560**	**.00032**	**.00087**	**.00004**
Stddev	.00012	.00076	.00011	.00019	.00016
%RSD	83.915	.21446	34.272	21.945	366.21
#1	-.00006	.35614	.00039	.00100	-.00007
#2	-.00022	.35506	.00024	.00073	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-9-B Acquired: 8/29/2017 15:35:28 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00535
Stddev	.00079
%RSD	14.696
#1	.00480
#2	.00591
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3813.1	2655.4	20939.	4237.0
Stddev	6.5	9.3	69.	2.9
%RSD	.17062	.35052	.33118	.06802
#1	3808.5	2648.8	20988.	4235.0
#2	3817.7	2661.9	20890.	4239.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.501%	96.035%	95.041%	101.99%
Range				

Sample Name: 480-123173-B-10-B Acquired: 8/29/2017 15:39:03 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00081**	**.02387**	**.00543**	**.11496**	**.06971**
Stddev	.00001	.01437	.00272	.00003	.00016
%RSD	1.7831	60.172	50.104	.02914	.23482
#1	-.00080	.01372	.00736	.11494	.06983
#2	-.00082	.03403	.00351	.11499	.06960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**46.768**	**.00013**	**-.0151**	**.00026**
Stddev	.00003	.067	.00007	.0054	.00006
%RSD	11.826	.14392	53.035	36.00	21.271
#1	-.00026	46.815	.00008	-.0112	.00022
#2	-.00031	46.720	.00017	-.0189	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00082**	**-.00020**	**1.5594**	**.00520**
Stddev	.00008	.00017	.00294	.0390	.00159
%RSD	24.867	20.898	1495.3	2.5024	30.612
#1	-.00027	.00094	.00188	1.5318	.00408
#2	-.00039	.00070	-.00228	1.5870	.00633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-10-B Acquired: 8/29/2017 15:39:03 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.630**	**.00945**	**.00682**	**14.812**	**.00056**
Stddev	.038	.00011	.00009	.020	.00005
%RSD	.20181	1.1331	1.3724	.13511	8.0837
#1	18.656	.00938	.00689	14.827	.00053
#2	18.603	.00953	.00675	14.798	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00119**	**8.6696**	**-.00124**	**-.00388**	**5.9196**
Stddev	.00148	.0161	.00039	.00156	.0299
%RSD	124.49	.18558	31.442	40.270	.50543
#1	.00223	8.6810	-.00152	-.00499	5.9408
#2	.00014	8.6582	-.00097	-.00278	5.8984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.64596**	**.00052**	**.00128**	**.00027**
Stddev	.00008	.00033	.00047	.00056	.00015
%RSD	1917.2	.05075	91.425	43.644	56.021
#1	-.00005	.64573	.00018	.00167	.00016
#2	.00006	.64619	.00085	.00088	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-B-10-B Acquired: 8/29/2017 15:39:03 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00253
Stddev	.00031
%RSD	12.086
#1	.00275
#2	.00231
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3926.5	2698.1	21236.	4224.5
Stddev	3.4	1.2	26.	5.4
%RSD	.08701	.04519	.12115	.12735
#1	3928.9	2698.9	21217.	4220.7
#2	3924.1	2697.2	21254.	4228.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.163%	97.579%	96.389%	101.69%
Range				

Sample Name: 480-123173-C-11-B Acquired: 8/29/2017 15:42:38 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.02563**	**-.00093**	**.00205**	**-.00012**
Stddev	.00001	.00092	.00055	.00018	.00002
%RSD	3.2008	3.6056	59.193	8.5532	15.926
#1	-.00046	.02498	-.00132	.00192	-.00011
#2	-.00044	.02628	-.00054	.00217	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.06301**	**-.00015**	**-.0117**	**-.00015**
Stddev	.00001	.00324	.00004	.0420	.00008
%RSD	3.8918	5.1422	29.812	359.8	54.093
#1	-.00017	.06531	-.00018	.0180	-.00020
#2	-.00018	.06072	-.00012	-.0414	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00071**	**-.00011**	**-.00651**	**.00661**	**-.00169**
Stddev	.00027	.00072	.00087	.00728	.00055
%RSD	38.131	641.51	13.357	110.07	32.837
#1	-.00052	-.00062	-.00590	.01176	-.00208
#2	-.00090	.00040	-.00713	.00147	-.00130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-C-11-B Acquired: 8/29/2017 15:42:38 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00295**	**.00124**	**-.00041**	**.05878**	**-.00042**
Stddev	.00438	.00008	.00003	.00302	.00019
%RSD	148.46	6.5271	7.4374	5.1393	44.378
#1	-.00605	.00130	-.00039	.06092	-.00029
#2	.00015	.00118	-.00043	.05665	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**-.00049**	**-.00132**	**.00034**	**-.02251**
Stddev	.00071	.00001	.00119	.00440	.00428
%RSD	412.32	2.1257	90.022	1276.4	19.021
#1	.00033	-.00049	-.00216	.00346	-.02553
#2	-.00068	-.00050	-.00048	-.00277	-.01948
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.00003**	**.00029**	**-.00047**	**.00016**
Stddev	.00042	.00006	.00062	.00045	.00011
%RSD	126.43	195.08	210.90	95.703	67.503
#1	.00004	-.00001	-.00014	-.00015	.00023
#2	.00063	.00007	.00073	-.00078	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-C-11-B Acquired: 8/29/2017 15:42:38 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00579**
Stddev	.00033
%RSD	5.7219
#1	.00555
#2	.00602
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4252.1**	**2763.2**	**22098.**	**4271.3**
Stddev	29.0	18.7	53.	12.1
%RSD	.68102	.67687	.23916	.28249
#1	4272.6	2776.4	22135.	4262.7
#2	4231.6	2750.0	22060.	4279.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.805%	99.935%	100.30%	102.81%
Range				

Sample Name: 480-123173-C-13-B Acquired: 8/29/2017 15:46:16 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00112**	**-.00317**	**.00969**	**.06297**	**.07026**
Stddev	.00038	.00192	.00079	.00073	.00035
%RSD	34.081	60.492	8.1102	1.1536	.49299
#1	-.00139	-.00181	.00913	.06349	.07001
#2	-.00085	-.00453	.01024	.06246	.07050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**89.914**	**.00006**	**.0049**	**-.00021**
Stddev	.00002	.041	.00002	.0165	.00009
%RSD	5.6942	.04530	29.519	341.0	44.071
#1	-.00026	89.885	.00005	-.0068	-.00027
#2	-.00028	89.943	.00007	.0166	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00069**	**1.4798**	**1.2386**	**.00237**
Stddev	.00033	.00050	.0115	.0403	.00069
%RSD	358.90	72.899	.77710	3.2552	29.183
#1	-.00014	-.00105	1.4716	1.2101	.00188
#2	.00032	-.00033	1.4879	1.2671	.00286
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-C-13-B Acquired: 8/29/2017 15:46:16 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.977**	**.03523**	**.00243**	**14.340**	**.00002**
Stddev	.178	.00016	.00002	.061	.00003
%RSD	.57425	.44757	.71148	.42256	124.24
#1	30.852	.03512	.00242	14.297	.00000
#2	31.103	.03534	.00244	14.383	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00284**	**22.299**	**-.00094**	**.00050**	**7.7804**
Stddev	.00106	.006	.00057	.00261	.0347
%RSD	37.312	.02558	60.582	516.53	.44530
#1	.00359	22.295	-.00054	-.00134	7.7559
#2	.00209	22.303	-.00134	.00235	7.8049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.33567**	**.00021**	**.00082**	**-.00033**
Stddev	.00007	.00116	.00005	.00088	.00059
%RSD	20.034	.34431	22.828	106.69	181.91
#1	-.00041	.33485	.00018	.00020	-.00074
#2	-.00031	.33649	.00025	.00144	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-C-13-B Acquired: 8/29/2017 15:46:16 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00321
Stddev	.00027
%RSD	8.3460
#1	.00302
#2	.00340
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3824.2	2659.8	20955.	4204.1
Stddev	1.9	.4	132.	16.5
%RSD	.05000	.01534	.62882	.39332
#1	3822.8	2660.1	21048.	4215.8
#2	3825.5	2659.5	20862.	4192.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.761%	96.194%	95.115%	101.19%
Range				

Sample Name: 480-123173-C-14-B Acquired: 8/29/2017 15:49:51 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00942**	**.01517**	**.25802**	**.15759**
Stddev	.00057	.03071	.00302	.00026	.00011
%RSD	105.65	325.96	19.928	.10179	.06809
#1	-.00014	.03114	.01303	.25784	.15766
#2	-.00094	-.01229	.01731	.25821	.15751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**32.913**	**-.00010**	**-.0310**	**-.00024**
Stddev	.00005	.130	.00013	.0531	.00020
%RSD	19.523	.39379	134.33	171.6	84.887
#1	-.00026	32.821	-.00000	-.0685	-.00010
#2	-.00020	33.004	-.00019	.0066	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00050**	**.25173**	**1.8134**	**.00485**
Stddev	.00001	.00015	.00343	.0041	.00137
%RSD	4.7915	30.290	1.3612	.22849	28.250
#1	-.00015	.00061	.24931	1.8105	.00388
#2	-.00014	.00039	.25415	1.8164	.00582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-C-14-B Acquired: 8/29/2017 15:49:51 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.610**	**.01679**	**.01281**	**51.267**	**-.00015**
Stddev	.012	.00013	.00030	.082	.00001
%RSD	.07909	.75477	2.3700	.15962	7.6815
#1	14.618	.01688	.01259	51.209	-.00014
#2	14.601	.01670	.01302	51.324	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.13842**	**-.00064**	**-.00250**	**6.2947**
Stddev	.00063	.00102	.00020	.00194	.0013
%RSD	92.509	.73643	32.053	77.494	.01981
#1	.00024	.13770	-.00049	-.00113	6.2938
#2	.00113	.13914	-.00078	-.00387	6.2956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**1.3520**	**.00001**	**.00084**	**-.00069**
Stddev	.00007	.0034	.00009	.00002	.00038
%RSD	29.554	.25475	853.32	1.8290	54.403
#1	.00018	1.3495	-.00005	.00085	-.00096
#2	.00027	1.3544	.00007	.00083	-.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123173-C-14-B Acquired: 8/29/2017 15:49:51 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00327
Stddev	.00028
%RSD	8.6294
#1	.00307
#2	.00347
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3854.4	2678.7	21056.	4226.5
Stddev	10.1	6.1	16.	4.5
%RSD	.26271	.22723	.07562	.10529
#1	3861.6	2683.0	21067.	4229.7
#2	3847.3	2674.4	21044.	4223.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.471%	96.879%	95.572%	101.73%
Range				

Sample Name: 190-14267-D-1-C Acquired: 8/29/2017 15:53:27 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00055**	**-.01202**	**.00821**	**.13303**	**.11723**
Stddev	.00054	.01879	.00035	.00025	.00025
%RSD	97.665	156.30	4.2838	.18519	.21531
#1	-.00093	-.02531	.00797	.13285	.11706
#2	-.00017	.00126	.00846	.13320	.11741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**44.229**	**.00046**	**-.0194**	**-.00023**
Stddev	.00003	.322	.00003	.0072	.00002
%RSD	13.277	.72809	7.5092	37.23	7.0784
#1	-.00020	44.001	.00048	-.0245	-.00022
#2	-.00024	44.457	.00043	-.0143	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.00239**	**-.00384**	**1.8837**	**.01003**
Stddev	.00025	.00044	.00129	.0311	.00087
%RSD	87.838	18.230	33.447	1.6528	8.6267
#1	-.00011	.00270	-.00475	1.8617	.00942
#2	-.00047	.00208	-.00294	1.9057	.01064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-D-1-C Acquired: 8/29/2017 15:53:27 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.689**	**.03830**	**.01835**	**20.458**	**.00014**
Stddev	.078	.00011	.00007	.138	.00010
%RSD	.32857	.29674	.36004	.67448	68.872
#1	23.634	.03822	.01840	20.360	.00007
#2	23.744	.03838	.01830	20.555	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00436**	**4.2128**	**-.00023**	**-.00155**	**7.0086**
Stddev	.00131	.0042	.00159	.00194	.0291
%RSD	30.150	.09965	680.25	125.38	.41467
#1	.00343	4.2158	-.00136	-.00292	6.9881
#2	.00529	4.2098	.00089	-.00018	7.0292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.44535**	**-.00023**	**.00042**	**-.00056**
Stddev	.00026	.00161	.00009	.00090	.00022
%RSD	219.48	.36065	37.111	214.79	38.675
#1	-.00030	.44422	-.00017	.00105	-.00072
#2	.00007	.44649	-.00029	-.00022	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-D-1-C Acquired: 8/29/2017 15:53:27 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.83255
Stddev	.00345
%RSD	.41428
#1	.83011
#2	.83499
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3908.1	2701.4	21306.	4238.4
Stddev	3.5	4.0	21.	33.4
%RSD	.08933	.14884	.09691	.78898
#1	3910.6	2698.5	21320.	4262.0
#2	3905.6	2704.2	21291.	4214.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.731%	97.698%	96.708%	102.02%
Range				

Sample Name: CCV-4198708 Acquired: 8/29/2017 15:57:02 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52232**	**23.975**	**.49638**	**.50296**	**.49428**
Stddev	.00239	.084	.00085	.00078	.00578
%RSD	.45715	.35124	.17164	.15568	1.1684
#1	.52401	24.034	.49698	.50352	.49837
#2	.52063	23.915	.49578	.50241	.49020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49950**	**24.757**	**.49977**	**-.0312**	**.48779**
Stddev	.00073	.026	.00012	.0343	.00122
%RSD	.14677	.10535	.02461	109.8	.25010
#1	.49898	24.776	.49986	-.0555	.48865
#2	.50002	24.739	.49969	-.0070	.48693
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51086**	**.50961**	**24.301**	**24.967**	**.49193**
Stddev	.00203	.00273	.038	.072	.00084
%RSD	.39646	.53649	.15513	.28699	.17118
#1	.51229	.51154	24.327	25.018	.49134
#2	.50942	.50768	24.274	24.916	.49253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 15:57:02 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.269**	**.51322**	**.49141**	**24.959**	**.49619**
Stddev	.125	.00336	.00017	.050	.00146
%RSD	.49527	.65384	.03375	.19921	.29358
#1	25.358	.51559	.49129	24.994	.49722
#2	25.181	.51084	.49152	24.924	.49516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49309**	**25.269**	**.49595**	**.49831**	**24.118**
Stddev	.00258	.024	.00272	.00157	.014
%RSD	.52411	.09348	.54881	.31448	.05667
#1	.49492	25.286	.49787	.49720	24.108
#2	.49126	25.252	.49402	.49942	24.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50905**	**.49382**	**.49434**	**.50215**	**.50157**
Stddev	.00144	.00124	.00080	.00290	.00259
%RSD	.28313	.25022	.16213	.57809	.51733
#1	.51007	.49469	.49491	.50420	.50341
#2	.50803	.49294	.49377	.50009	.49974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 15:57:02 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50831**
Stddev	.00049
%RSD	.09627
#1	.50865
#2	.50796
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3823.3**	**2714.3**	**21197.**	**4190.6**
Stddev	2.4	.8	27.	27.4
%RSD	.06200	.02817	.12859	.65327
#1	3821.7	2714.8	21178.	4171.3
#2	3825.0	2713.7	21217.	4210.0

Sample Name: CCB-4204839 Acquired: 8/29/2017 16:00:28 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.04622**	**-.00323**	**-.00082**	**-.00018**
Stddev	.00062	.01423	.00015	.00011	.00002
%RSD	137.03	30.787	4.5219	12.969	10.064
#1	-.00089	-.03616	-.00333	-.00090	-.00016
#2	-.00001	-.05628	-.00313	-.00075	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00326**	**-.00019**	**-.0104**	**-.00014**
Stddev	.00002	.00210	.00008	.0150	.00012
%RSD	6.9800	64.574	40.059	143.9	85.484
#1	-.00025	.00475	-.00014	-.0211	-.00005
#2	-.00027	.00177	-.00024	.0002	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**-.00091**	**-.00918**	**-.02436**	**-.00074**
Stddev	.00021	.00074	.00074	.00113	.00002
%RSD	117.19	81.796	8.0615	4.6213	2.1666
#1	.00003	-.00038	-.00971	-.02515	-.00073
#2	.00032	-.00144	-.00866	-.02356	-.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 16:00:28 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00786**	**.00007**	**-.00005**	**-.01508**	**-.00033**
Stddev	.00146	.00001	.00029	.00617	.00016
%RSD	18.584	21.592	552.58	40.899	47.402
#1	-.00889	.00006	.00015	-.01072	-.00044
#2	-.00683	.00008	-.00026	-.01943	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00401**	**-.00103**	**.00049**	**-.02040**
Stddev	.00019	.00004	.00083	.00370	.00436
%RSD	180.19	1.0086	79.780	751.52	21.385
#1	.00024	-.00404	-.00162	.00311	-.01732
#2	-.00003	-.00398	-.00045	-.00212	-.02349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**-.00017**	**.00063**	**.00056**	**-.00003**
Stddev	.00047	.00000	.00034	.00045	.00056
%RSD	365.18	.92370	53.783	80.175	1760.3
#1	-.00047	-.00017	.00039	.00024	-.00043
#2	.00021	-.00017	.00086	.00088	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 16:00:28 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00002
Stddev	.00021
%RSD	1005.1
#1	.00017
#2	-.00013
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4267.6	2765.3	21928.	4203.9
Stddev	1.0	.5	14.	10.5
%RSD	.02449	.01898	.06503	.25020
#1	4266.9	2765.0	21938.	4211.4
#2	4268.3	2765.7	21918.	4196.5

Sample Name: CCVL-4195955 Acquired: 8/29/2017 16:04:06 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00574**	**.16101**	**.01356**	**.01914**	**.00190**
Stddev	.00003	.00652	.00201	.00057	.00005
%RSD	.43711	4.0463	14.813	2.9670	2.4434
#1	.00572	.15641	.01214	.01955	.00193
#2	.00575	.16562	.01499	.01874	.00187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.50473**	**.00195**	**-.0055**	**.00383**
Stddev	.00005	.00131	.00016	.0216	.00006
%RSD	2.5009	.26041	8.3405	391.8	1.5293
#1	.00184	.50566	.00184	-.0208	.00387
#2	.00191	.50380	.00207	.0098	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00425**	**.01020**	**.03810**	**.43756**	**.02919**
Stddev	.00027	.00003	.00265	.00006	.00082
%RSD	6.3270	.32328	6.9488	.01411	2.8228
#1	.00444	.01022	.03998	.43752	.02977
#2	.00406	.01018	.03623	.43761	.02861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 16:04:06 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19770**	**.00300**	**.00977**	**.99330**	**.00914**
Stddev	.00263	.00010	.00005	.00417	.00020
%RSD	1.3319	3.3255	.50455	.41942	2.2418
#1	.19584	.00293	.00974	.99035	.00899
#2	.19956	.00307	.00981	.99624	.00928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00916**	**.18839**	**.01867**	**.02516**	**.47819**
Stddev	.00204	.00112	.00275	.00009	.00714
%RSD	22.298	.59212	14.708	.34702	1.4936
#1	.01060	.18918	.02061	.02510	.48324
#2	.00771	.18760	.01673	.02523	.47314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00939**	**.00476**	**.00496**	**.02146**	**.00456**
Stddev	.00025	.00005	.00044	.00105	.00045
%RSD	2.6618	1.0804	8.9014	4.9081	9.7965
#1	.00922	.00472	.00465	.02220	.00487
#2	.00957	.00479	.00527	.02072	.00424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 16:04:06 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01073**
Stddev	.00076
%RSD	7.0766
#1	.01127
#2	.01019
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4238.0**	**2764.6**	**21942.**	**4207.3**
Stddev	1.6	4.9	19.	1.7
%RSD	.03795	.17778	.08780	.04003
#1	4236.9	2761.1	21928.	4206.1
#2	4239.2	2768.1	21955.	4208.4

Sample Name: 190-14267-C-2-C Acquired: 8/29/2017 16:07:44 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00058**	**-.03838**	**.03887**	**.07307**	**.13827**
Stddev	.00005	.01440	.00099	.00020	.00054
%RSD	8.4479	37.533	2.5585	.27032	.38701
#1	-.00061	-.02819	.03817	.07321	.13865
#2	-.00054	-.04856	.03958	.07293	.13790
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**69.773**	**.00009**	**-.0199**	**-.00025**
Stddev	.00008	.086	.00011	.0043	.00019
%RSD	35.640	.12350	126.58	21.40	77.204
#1	-.00017	69.834	.00016	-.0169	-.00039
#2	-.00028	69.712	.00001	-.0229	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.00237**	**.98656**	**1.4192**	**.00771**
Stddev	.00035	.00000	.00611	.0061	.00119
%RSD	52.100	.06061	.61910	.42725	15.376
#1	-.00042	.00237	.99088	1.4150	.00687
#2	-.00091	.00237	.98225	1.4235	.00855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-C-2-C Acquired: 8/29/2017 16:07:44 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.648**	**.01225**	**.01754**	**10.671**	**.00001**
Stddev	.231	.00014	.00006	.001	.00006
%RSD	.66649	1.1444	.33937	.00862	552.97
#1	34.811	.01235	.01750	10.672	-.00003
#2	34.484	.01215	.01758	10.671	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00185**	**14.120**	**-.00203**	**.00015**	**7.8478**
Stddev	.00060	.021	.00201	.00180	.0205
%RSD	32.342	.14657	98.985	1219.5	.26087
#1	.00143	14.105	-.00346	.00142	7.8622
#2	.00227	14.134	-.00061	-.00113	7.8333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.73550**	**.00016**	**.00192**	**-.00048**
Stddev	.00034	.00057	.00037	.00045	.00008
%RSD	170.70	.07772	232.52	23.494	15.704
#1	-.00004	.73591	-.00010	.00160	-.00043
#2	.00044	.73510	.00042	.00224	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-C-2-C Acquired: 8/29/2017 16:07:44 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.21521
Stddev	.00083
%RSD	.38392
#1	.21579
#2	.21462
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3862.4	2674.4	21076.	4229.3
Stddev	4.2	1.7	40.	7.2
%RSD	.10992	.06236	.18865	.16939
#1	3859.4	2673.2	21048.	4234.3
#2	3865.4	2675.6	21105.	4224.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.658%	96.723%	95.666%	101.80%
Range				

Sample Name: 190-14267-C-3-C Acquired: 8/29/2017 16:11:18 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00122**	**.03588**	**.00168**	**.56160**	**.29807**
Stddev	.00130	.00407	.00007	.00069	.00019
%RSD	106.70	11.347	4.2867	.12322	.06224
#1	-.00214	.03876	.00163	.56209	.29820
#2	-.00030	.03300	.00173	.56111	.29794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**101.41**	**.00006**	**-.0335**	**-.00026**
Stddev	.00009	.01	.00013	.0009	.00007
%RSD	35.549	.01454	215.14	2.833	25.325
#1	-.00031	101.43	.00015	-.0328	-.00031
#2	-.00019	101.40	-.00003	-.0342	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00136**	**4.2519**	**2.1024**	**.00905**
Stddev	.00072	.00016	.0010	.0262	.00183
%RSD	355.26	12.134	.02258	1.2475	20.259
#1	-.00031	.00124	4.2512	2.0838	.01035
#2	.00071	.00148	4.2526	2.1209	.00776
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-C-3-C Acquired: 8/29/2017 16:11:18 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.809**	**.03065**	**.01348**	**83.132**	**.01348**
Stddev	.020	.00021	.00028	.427	.00024
%RSD	.04516	.67730	2.0602	.51369	1.8076
#1	43.823	.03080	.01368	82.830	.01365
#2	43.795	.03051	.01329	83.434	.01330
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00313**	**25.253**	**-.00043**	**-.00129**	**8.3644**
Stddev	.00119	.017	.00066	.00138	.0357
%RSD	38.068	.06607	151.79	107.11	.42648
#1	.00398	25.265	-.00090	-.00031	8.3392
#2	.00229	25.241	.00003	-.00226	8.3896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**1.1206**	**.00048**	**.00122**	**-.00003**
Stddev	.00021	.0003	.00028	.00089	.00054
%RSD	179.86	.02936	57.878	73.153	2060.9
#1	-.00027	1.1208	.00028	.00059	.00036
#2	.00003	1.1203	.00067	.00184	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14267-C-3-C Acquired: 8/29/2017 16:11:18 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.06327
Stddev	.00148
%RSD	2.3342
#1	.06432
#2	.06223
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3664.5	2622.3	20622.	4265.2
Stddev	2.1	1.0	2.	10.0
%RSD	.05634	.03688	.01036	.23523
#1	3663.0	2621.6	20624.	4272.3
#2	3666.0	2623.0	20621.	4258.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.013%	94.840%	93.604%	102.66%
Range				

Sample Name: 480-123211-A-1-A Acquired: 8/29/2017 16:14:52 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.24353**	**.00111**	**.06226**	**.04749**
Stddev	.00054	.00230	.00192	.00003	.00003
%RSD	124.31	.94376	173.81	.05395	.07005
#1	-.00005	.24516	-.00025	.06229	.04751
#2	-.00082	.24191	.00246	.06224	.04746
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	F **939.67**	**.00070**	**.0063**	**.00248**
Stddev	.00001	.27	.00004	.0049	.00010
%RSD	2.6172	.02890	5.5884	78.02	4.0032
#1	-.00040	939.48	.00067	.0028	.00255
#2	-.00041	939.86	.00072	.0098	.00241
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		900.00			
Low Limit		-.50000			

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12719**	**.09981**	**1.3596**	**27.453**	**-.01035**
Stddev	.00169	.00068	.0018	.146	.00022
%RSD	1.3304	.68129	.13560	.53331	2.1129
#1	.12600	.10030	1.3583	27.349	-.01050
#2	.12839	.09933	1.3609	27.556	-.01019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123211-A-1-A Acquired: 8/29/2017 16:14:52 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**142.38**	**.06288**	**.00166**	**1118.7**	**.27089**
Stddev	.05	.00004	.00030	1.0	.00138
%RSD	.03728	.05636	18.303	.08791	.50930
#1	142.34	.06286	.00187	1118.0	.27186
#2	142.41	.06291	.00144	1119.4	.26991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00127**	F **1596.2**	**.00147**	**.00668**	**5.7918**
Stddev	.00189	.4	.00127	.00205	.0297
%RSD	149.15	.02694	86.165	30.619	.51222
#1	-.00261	1596.5	.00237	.00523	5.8127
#2	.00007	1595.9	.00058	.00813	5.7708
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00104**	**3.4858**	**.01197**	**-.00020**	**-.00004**
Stddev	.00050	.0055	.00004	.00143	.00003
%RSD	48.306	.15896	.33382	719.81	71.446
#1	-.00069	3.4897	.01194	-.00121	-.00002
#2	-.00140	3.4818	.01200	.00081	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123211-A-1-A Acquired: 8/29/2017 16:14:52 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.05439**
Stddev	.00157
%RSD	2.8833
#1	.05328
#2	.05550
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2891.6**	**2345.0**	**18114.**	**4055.2**
Stddev	1.6	2.1	20.	9.0
%RSD	.05455	.09162	.11200	.22152
#1	2890.4	2346.6	18100.	4048.9
#2	2892.7	2343.5	18129.	4061.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.871%	84.812%	82.221%	97.610%
Range				

Sample Name: 480-123169-C-1-A@5 Acquired: 8/29/2017 16:18:37 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.03158**	**.02153**	**1.2913**	**.19637**
Stddev	.00046	.00350	.00219	.0018	.00101
%RSD	95.292	11.090	10.183	.14032	.51453
#1	-.00016	.02910	.01998	1.2926	.19708
#2	-.00081	.03405	.02308	1.2900	.19565
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**17.789**	**.00023**	**.0020**	**.00683**
Stddev	.00005	.067	.00003	.0019	.00004
%RSD	19.194	.37499	11.864	93.00	.65536
#1	-.00031	17.836	.00021	.0007	.00686
#2	-.00024	17.742	.00025	.0034	.00680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00516**	**-.00007**	**1.9222**	**127.30**	**.00182**
Stddev	.00045	.00076	.0107	.37	.00118
%RSD	8.6270	1027.9	.55657	.28996	64.992
#1	.00485	.00046	1.9298	127.56	.00265
#2	.00548	-.00061	1.9146	127.04	.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123169-C-1-A@5 Acquired: 8/29/2017 16:18:37 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.647**	**.01799**	**.00061**	**234.39**	**.06473**
Stddev	.141	.00005	.00011	.51	.00015
%RSD	.55030	.28430	17.398	.21595	.23909
#1	25.747	.01803	.00054	234.74	.06462
#2	25.547	.01795	.00069	234.03	.06484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00159**	**4.8777**	**-.00053**	**-.00251**	**2.9401**
Stddev	.00036	.0169	.00065	.00519	.0090
%RSD	22.596	.34695	122.23	206.54	.30566
#1	.00133	4.8897	-.00099	.00116	2.9338
#2	.00184	4.8658	-.00007	-.00619	2.9465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00107**	**.21362**	**.01169**	**.00114**	**.00440**
Stddev	.00011	.00082	.00055	.00028	.00015
%RSD	10.599	.38293	4.6738	24.236	3.3167
#1	.00115	.21420	.01207	.00133	.00450
#2	.00099	.21304	.01130	.00094	.00429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123169-C-1-A@5 Acquired: 8/29/2017 16:18:37 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00350**
Stddev	.00057
%RSD	16.390
#1	.00391
#2	.00309
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3506.5**	**2571.7**	**19927.**	**4173.4**
Stddev	11.8	10.8	29.	3.4
%RSD	.33557	.41843	.14587	.08246
#1	3498.2	2564.1	19948.	4175.8
#2	3514.8	2579.3	19907.	4171.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.304%	93.010%	90.450%	100.45%
Range				

Sample Name: 480-123243-e-1-a@5 Acquired: 8/29/2017 16:22:11 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00136**	**-.02103**	**-.00030**	**.19556**	**1.3532**
Stddev	.00034	.01436	.00185	.00001	.0043
%RSD	24.741	68.278	607.45	.00375	.31515
#1	-.00112	-.03118	.00100	.19555	1.3563
#2	-.00160	-.01088	-.00161	.19556	1.3502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**90.047**	**-.00003**	**.0065**	**-.00024**
Stddev	.00005	.233	.00004	.0091	.00002
%RSD	18.362	.25836	137.77	138.8	10.159
#1	-.00031	89.883	-.00000	.0129	-.00023
#2	-.00024	90.212	-.00006	.0001	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**-.00056**	**.17516**	**3.8346**	**.02833**
Stddev	.00008	.00037	.00246	.0483	.00129
%RSD	30.567	67.110	1.4018	1.2606	4.5381
#1	.00021	-.00082	.17690	3.8688	.02924
#2	.00032	-.00029	.17343	3.8004	.02742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123243-e-1-a@5 Acquired: 8/29/2017 16:22:11 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1504**	**.03235**	**.00162**	**77.527**	**.00145**
Stddev	.0188	.00013	.00013	.298	.00006
%RSD	.23118	.39076	7.9162	.38450	3.8258
#1	8.1371	.03226	.00153	77.738	.00149
#2	8.1637	.03244	.00171	77.316	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**33.529**	**-.00038**	**-.00058**	**.95498**
Stddev	.00130	.021	.00304	.00300	.00762
%RSD	255.00	.06171	799.22	515.70	.79832
#1	-.00041	33.544	.00177	-.00270	.96037
#2	.00143	33.515	-.00253	.00154	.94959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.69261**	**.00005**	**-.00004**	**.00004**
Stddev	.00039	.00136	.00011	.00099	.00004
%RSD	115.52	.19629	238.68	2545.7	99.564
#1	.00061	.69165	.00013	.00066	.00007
#2	.00006	.69357	-.00003	-.00074	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123243-e-1-a@5 Acquired: 8/29/2017 16:22:11 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00635
Stddev	.00037
%RSD	5.8010
#1	.00661
#2	.00609
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3723.4	2609.3	20542.	4169.7
Stddev	1.6	.1	73.	1.0
%RSD	.04260	.00352	.35335	.02376
#1	3724.5	2609.3	20491.	4169.0
#2	3722.3	2609.4	20593.	4170.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.396%	94.370%	93.241%	100.37%
Range				

Sample Name: BLANK Acquired: 8/29/2017 16:25:51 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00109**	**-.01530**	**.00014**	**.00004**	**-.00017**
Stddev	.00028	.00645	.00244	.00039	.00000
%RSD	25.679	42.134	1740.4	949.78	2.2684
#1	-.00090	-.01074	.00186	.00032	-.00016
#2	-.00129	-.01986	-.00158	-.00023	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.01847**	**-.00019**	**-.0289**	**-.00007**
Stddev	.00004	.00223	.00001	.0481	.00006
%RSD	18.900	12.089	5.1993	166.7	81.894
#1	-.00019	.01689	-.00019	-.0629	-.00011
#2	-.00025	.02004	-.00020	.0052	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.00017**	**-.00759**	**.00597**	**.00069**
Stddev	.00027	.00092	.00345	.02113	.00047
%RSD	66.317	537.76	45.538	353.98	67.409
#1	.00022	.00082	-.01003	.02091	.00036
#2	.00060	-.00048	-.00514	-.00897	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/29/2017 16:25:51 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00476**	**.00004**	**-.00035**	**.03740**	**-.00013**
Stddev	.00147	.00005	.00011	.00452	.00004
%RSD	30.987	124.11	32.508	12.080	29.966
#1	-.00372	.00007	-.00043	.04060	-.00016
#2	-.00580	.00000	-.00027	.03421	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	**.03682**	**-.00079**	**-.00054**	**-.01199**
Stddev	.00058	.00113	.00151	.00159	.00161
%RSD	47.318	3.0789	191.10	293.47	13.419
#1	-.00164	.03762	.00028	-.00166	-.01085
#2	-.00082	.03602	-.00185	.00058	-.01313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.00013**	**.00006**	**-.00006**	**.00029**
Stddev	.00027	.00002	.00046	.00027	.00003
%RSD	96.884	11.545	747.74	425.51	8.7256
#1	-.00009	-.00014	.00038	-.00026	.00027
#2	-.00047	-.00012	-.00026	.00013	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/29/2017 16:25:51 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00527**
Stddev	.00018
%RSD	3.4552
#1	.00515
#2	.00540
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4244.6**	**2752.4**	**21998.**	**4214.4**
Stddev	4.3	1.4	96.	1.9
%RSD	.10047	.04937	.43544	.04515
#1	4241.6	2751.4	21931.	4213.1
#2	4247.6	2753.4	22066.	4215.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.630%	99.545%	99.851%	101.44%
Range				

Sample Name: mb 480-373533/1-b Acquired: 8/29/2017 16:29:29 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.04373**	**-.00212**	**.00041**	**-.00014**
Stddev	.00003	.00327	.00036	.00033	.00003
%RSD	9.5810	7.4851	16.764	80.128	22.591
#1	-.00033	-.04142	-.00187	.00064	-.00016
#2	-.00038	-.04605	-.00237	.00018	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.03640**	**-.00008**	**.0137**	**-.00014**
Stddev	.00004	.00125	.00002	.0010	.00010
%RSD	22.298	3.4360	29.690	7.086	71.304
#1	-.00023	.03728	-.00006	.0130	-.00007
#2	-.00017	.03552	-.00009	.0144	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.01004**	**-.00802**	**-.04154**	**-.00083**
Stddev	.00022	.00027	.00128	.02653	.00011
%RSD	52.013	2.7121	15.980	63.874	13.755
#1	-.00026	.00985	-.00712	-.02278	-.00075
#2	-.00057	.01023	-.00893	-.06030	-.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-373533/1-b Acquired: 8/29/2017 16:29:29 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00133**	**.00076**	**-.00035**	**.05409**	**-.00004**
Stddev	.00335	.00006	.00031	.00446	.00001
%RSD	251.52	7.7569	89.242	8.2396	27.021
#1	.00104	.00080	-.00013	.05724	-.00004
#2	-.00370	.00072	-.00057	.05094	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**.02908**	**-.00040**	**-.00249**	**-.02209**
Stddev	.00056	.00140	.00097	.00025	.00298
%RSD	36.380	4.8313	244.24	10.209	13.480
#1	.00114	.03007	.00029	-.00231	-.01998
#2	.00193	.02809	-.00108	-.00267	-.02419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**-.00001**	**.00028**	**-.00019**	**-.00004**
Stddev	.00011	.00002	.00040	.00067	.00002
%RSD	87.530	222.99	142.67	351.81	53.051
#1	-.00020	-.00002	-.00000	.00028	-.00005
#2	-.00005	.00001	.00056	-.00067	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-373533/1-b Acquired: 8/29/2017 16:29:29 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01760
Stddev	.00059
%RSD	3.3559
#1	.01802
#2	.01719
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4293.8	2779.5	22191.	4296.4
Stddev	4.8	1.2	101.	11.4
%RSD	.11120	.04184	.45595	.26434
#1	4290.4	2778.6	22119.	4304.4
#2	4297.2	2780.3	22262.	4288.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.78%	100.52%	100.72%	103.41%
Range				

Sample Name: 480-122418 TOT Acquired: 8/29/2017 16:33:07 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.98885**	**-.00067**	**.34261**	**.02211**
Stddev	.00048	.00434	.00044	.00098	.00007
%RSD	662.53	.43883	65.106	.28745	.31580
#1	.00041	.98578	-.00036	.34191	.02206
#2	-.00027	.99192	-.00098	.34331	.02216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**62.642**	**-.00004**	**-.0086**	**-.00010**
Stddev	.00000	.227	.00004	.0045	.00008
%RSD	.93171	.36261	94.198	53.07	76.576
#1	-.00032	62.481	-.00007	-.0118	-.00005
#2	-.00032	62.803	-.00001	-.0053	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00423**	**.13494**	**2.1733**	**.00084**
Stddev	.00010	.00208	.00178	.0582	.00123
%RSD	14.437	49.080	1.3203	2.6796	145.38
#1	.00077	.00277	.13368	2.1321	-.00002
#2	.00063	.00570	.13620	2.2145	.00171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122418 TOT Acquired: 8/29/2017 16:33:07 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.870**	**.01367**	**-.00028**	**28.808**	**.00041**
Stddev	.056	.00000	.00010	.131	.00025
%RSD	.20714	.02997	34.131	.45425	59.838
#1	26.831	.01367	-.00035	28.715	.00059
#2	26.910	.01368	-.00021	28.901	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**8.1077**	**-.00047**	**.00072**	**4.1052**
Stddev	.00110	.0237	.00021	.00009	.0087
%RSD	185.55	.29202	45.587	12.408	.21111
#1	-.00019	8.0909	-.00032	.00065	4.0991
#2	.00137	8.1244	-.00062	.00078	4.1113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.10137**	**.01002**	**.00184**	**-.00012**
Stddev	.00025	.00069	.00081	.00058	.00015
%RSD	301.16	.68405	8.1327	31.671	121.14
#1	.00026	.10088	.00944	.00225	-.00023
#2	-.00009	.10186	.01059	.00143	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-122418 TOT Acquired: 8/29/2017 16:33:07 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00474**
Stddev	.00049
%RSD	10.413
#1	.00509
#2	.00439
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3965.5**	**2753.0**	**21500.**	**4245.4**
Stddev	3.1	4.9	21.	31.2
%RSD	.07901	.17708	.09633	.73384
#1	3967.8	2756.5	21515.	4267.4
#2	3963.3	2749.6	21486.	4223.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.079%	99.568%	97.591%	102.19%
Range				

Sample Name: mb 480-374194/1-c Acquired: 8/29/2017 16:36:42 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00072**	**-.02487**	**-.00273**	**.00142**	**-.00014**
Stddev	.00047	.01726	.00081	.00034	.00000
%RSD	64.826	69.382	29.736	23.833	.94067
#1	-.00039	-.03707	-.00330	.00166	-.00013
#2	-.00106	-.01267	-.00215	.00118	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.06029**	**-.00014**	**-.0098**	**-.00017**
Stddev	.00004	.00188	.00010	.0261	.00011
%RSD	23.074	3.1199	75.761	265.9	64.849
#1	-.00020	.05896	-.00006	-.0283	-.00009
#2	-.00015	.06162	-.00021	.0086	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00020**	**-.01133**	**-.07259**	**.00014**
Stddev	.00014	.00055	.00092	.04936	.00226
%RSD	54.091	277.07	8.1631	68.001	1668.5
#1	-.00016	.00059	-.01068	-.10749	-.00146
#2	-.00037	-.00019	-.01198	-.03769	.00173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-374194/1-c Acquired: 8/29/2017 16:36:42 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**.00087**	**-.00034**	**.04611**	**-.00024**
Stddev	.00542	.00006	.00005	.00286	.00002
%RSD	361.95	6.6392	15.460	6.2030	8.6147
#1	.00533	.00091	-.00038	.04408	-.00022
#2	-.00234	.00083	-.00030	.04813	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.04171**	**.00026**	**-.00204**	**-.01543**
Stddev	.00011	.00117	.00022	.00122	.00171
%RSD	209.17	2.8109	82.484	59.906	11.071
#1	.00013	.04088	.00041	-.00118	-.01663
#2	-.00003	.04254	.00011	-.00291	-.01422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00008**	**.00053**	**-.00037**	**-.00014**
Stddev	.00023	.00006	.00008	.00030	.00058
%RSD	113.01	75.537	15.276	80.124	405.54
#1	-.00004	.00013	.00058	-.00016	.00027
#2	-.00037	.00004	.00047	-.00059	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-374194/1-c Acquired: 8/29/2017 16:36:42 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00156
Stddev	.00003
%RSD	1.6806
#1	.00158
#2	.00155
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4284.1	2771.1	22140.	4277.4
Stddev	13.2	10.0	138.	32.1
%RSD	.30769	.36035	.62284	.75000
#1	4274.7	2764.1	22042.	4254.7
#2	4293.4	2778.2	22237.	4300.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.56%	100.22%	100.49%	102.96%
Range				

Sample Name: CCV-4198708 Acquired: 8/29/2017 16:40:21 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51798**	**23.866**	**.49338**	**.50053**	**.49615**
Stddev	.00124	.033	.00152	.00115	.00041
%RSD	.23856	.13693	.30758	.22946	.08254
#1	.51710	23.843	.49231	.49972	.49586
#2	.51885	23.889	.49445	.50134	.49643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49997**	**24.715**	**.49796**	**-.0330**	**.48672**
Stddev	.00108	.021	.00070	.0312	.00012
%RSD	.21541	.08678	.13976	94.48	.02450
#1	.49920	24.699	.49747	-.0110	.48664
#2	.50073	24.730	.49845	-.0551	.48681
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50965**	**.50389**	**24.255**	**25.036**	**.49413**
Stddev	.00095	.00031	.030	.041	.00265
%RSD	.18600	.06087	.12543	.16500	.53639
#1	.50898	.50367	24.276	25.007	.49226
#2	.51032	.50411	24.233	25.065	.49601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 16:40:21 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.113**	**.51136**	**.48955**	**25.029**	**.49440**
Stddev	.065	.00213	.00105	.049	.00054
%RSD	.25938	.41612	.21397	.19753	.10999
#1	25.067	.50985	.48881	24.994	.49478
#2	25.159	.51286	.49029	25.064	.49402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49056**	**25.152**	**.49437**	**.49555**	**24.040**
Stddev	.00202	.006	.00242	.00147	.006
%RSD	.41260	.02358	.48916	.29648	.02582
#1	.48913	25.148	.49266	.49451	24.036
#2	.49199	25.156	.49608	.49658	24.045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50625**	**.49441**	**.49370**	**.49517**	**.49842**
Stddev	.00077	.00106	.00337	.00174	.00054
%RSD	.15146	.21454	.68299	.35143	.10843
#1	.50571	.49366	.49131	.49394	.49804
#2	.50679	.49516	.49608	.49640	.49880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 16:40:21 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50432**
Stddev	.00326
%RSD	.64687
#1	.50202
#2	.50663
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3849.7**	**2732.5**	**21307.**	**4257.3**
Stddev	1.5	2.6	32.	1.5
%RSD	.03960	.09403	.15101	.03417
#1	3850.8	2734.4	21330.	4256.3
#2	3848.6	2730.7	21284.	4258.4

Sample Name: CCB-4204839 Acquired: 8/29/2017 16:43:44 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**-.03348**	**-.00167**	**-.00067**	**-.00014**
Stddev	.00025	.00930	.00007	.00007	.00001
%RSD	51.648	27.765	4.3151	11.063	5.6706
#1	-.00031	-.02691	-.00162	-.00072	-.00013
#2	-.00067	-.04006	-.00172	-.00062	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.02148**	**-.00010**	**-.0154**	**-.00024**
Stddev	.00007	.00615	.00013	.0020	.00016
%RSD	28.952	28.657	132.60	13.00	65.729
#1	-.00019	.02583	-.00019	-.0169	-.00035
#2	-.00028	.01713	-.00001	-.0140	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00016**	**-.00861**	**-.01009**	**.00037**
Stddev	.00043	.00040	.00216	.02131	.00089
%RSD	1665.2	251.37	25.099	211.24	244.11
#1	-.00033	.00013	-.01014	.00498	-.00027
#2	.00028	-.00045	-.00708	-.02516	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 16:43:44 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**-.00003**	**-.00011**	**.02249**	**-.00043**
Stddev	.00248	.00009	.00009	.00182	.00045
%RSD	129.79	288.59	83.152	8.0768	104.46
#1	.00366	-.00009	-.00017	.02121	-.00075
#2	.00016	.00003	-.00004	.02378	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**.02876**	**-.00027**	**-.00066**	**-.02274**
Stddev	.00059	.00258	.00110	.00071	.00300
%RSD	54.151	8.9765	405.45	107.03	13.181
#1	.00151	.03059	-.00105	-.00116	-.02486
#2	.00067	.02694	.00051	-.00016	-.02062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00016**	**.00014**	**-.00076**	**.00013**
Stddev	.00012	.00003	.00037	.00247	.00020
%RSD	42.125	21.239	270.44	324.00	155.31
#1	.00037	-.00018	.00040	-.00251	-.00001
#2	.00020	-.00013	-.00013	.00098	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 16:43:44 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00014
Stddev	.00006
%RSD	42.204
#1	.00010
#2	.00018
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4288.0	2779.2	22107.	4260.4
Stddev	8.5	4.8	40.	18.0
%RSD	.19936	.17418	.18267	.42210
#1	4294.1	2782.7	22079.	4273.1
#2	4282.0	2775.8	22136.	4247.7

Sample Name: CCVL-4195955 Acquired: 8/29/2017 16:47:23 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00568**	**.15029**	**.01207**	**.01934**	**.00195**
Stddev	.00052	.00785	.00091	.00002	.00002
%RSD	9.1011	5.2262	7.5553	.12035	1.1837
#1	.00604	.14474	.01271	.01936	.00193
#2	.00531	.15584	.01142	.01932	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00185**	**.51911**	**.00200**	**-.0188**	**.00370**
Stddev	.00007	.00029	.00008	.0149	.00001
%RSD	3.8299	.05662	4.1556	79.02	.39680
#1	.00190	.51890	.00194	-.0294	.00371
#2	.00180	.51932	.00206	-.0083	.00369
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00382**	**.01031**	**.03846**	**.45866**	**.02815**
Stddev	.00011	.00015	.00228	.04646	.00105
%RSD	2.9798	1.4376	5.9165	10.129	3.7128
#1	.00374	.01020	.03685	.49152	.02741
#2	.00390	.01041	.04007	.42581	.02889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 16:47:23 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20242**	**.00303**	**.00965**	**1.0245**	**.00937**
Stddev	.00384	.00004	.00009	.0059	.00009
%RSD	1.8974	1.3847	.97395	.57144	.92146
#1	.19970	.00300	.00958	1.0203	.00931
#2	.20513	.00306	.00972	1.0286	.00943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00999**	**.22061**	**.01960**	**.02436**	**.47808**
Stddev	.00016	.00077	.00088	.00016	.00106
%RSD	1.5749	.34869	4.4687	.67567	.22080
#1	.00988	.22006	.01898	.02424	.47883
#2	.01010	.22115	.02022	.02447	.47734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00950**	**.00484**	**.00477**	**.01965**	**.00499**
Stddev	.00015	.00010	.00014	.00064	.00006
%RSD	1.6170	2.0893	2.9078	3.2595	1.1999
#1	.00940	.00491	.00487	.02010	.00495
#2	.00961	.00476	.00467	.01920	.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 16:47:23 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.01058**
Stddev	.00036
%RSD	3.4383
#1	.01033
#2	.01084
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4248.8**	**2773.3**	**22115.**	**4250.6**
Stddev	4.4	2.0	55.	19.9
%RSD	.10382	.07234	.24820	.46927
#1	4252.0	2774.8	22076.	4264.7
#2	4245.7	2771.9	22153.	4236.5

Sample Name: lcs 480-374194/2-c Acquired: 8/29/2017 16:51:01 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04321**	**9.9932**	**.19958**	**.20695**	**.20936**
Stddev	.00040	.0066	.00305	.00027	.00059
%RSD	.91746	.06650	1.5274	.13121	.28124
#1	.04293	9.9979	.19743	.20676	.20894
#2	.04349	9.9885	.20174	.20715	.20977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20330**	**9.9716**	**.20438**	**-.0181**	**.19055**
Stddev	.00036	.0180	.00014	.0269	.00003
%RSD	.17611	.18086	.06736	148.7	.01420
#1	.20305	9.9589	.20428	-.0371	.19057
#2	.20355	9.9844	.20448	.0009	.19053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20467**	**.20815**	**10.243**	**10.026**	**.20374**
Stddev	.00174	.00186	.009	.050	.00024
%RSD	.84827	.89291	.08941	.50313	.11724
#1	.20345	.20684	10.236	9.9899	.20357
#2	.20590	.20947	10.249	10.061	.20391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-374194/2-c Acquired: 8/29/2017 16:51:01 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.307**	**.21186**	**.20152**	**10.097**	**.19482**
Stddev	.030	.00072	.00021	.043	.00002
%RSD	.29585	.34015	.10611	.42888	.00785
#1	10.286	.21135	.20137	10.066	.19481
#2	10.329	.21237	.20167	10.128	.19483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20200**	**9.9850**	**.20189**	**.19913**	**10.109**
Stddev	.00161	.0073	.00020	.00102	.050
%RSD	.79942	.07328	.09962	.51221	.49053
#1	.20314	9.9902	.20204	.19985	10.074
#2	.20086	9.9798	.20175	.19841	10.144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18192**	**.20217**	**.19730**	**.19906**	**.20529**
Stddev	.00017	.00041	.00014	.00037	.00050
%RSD	.09230	.20525	.07085	.18450	.24449
#1	.18180	.20188	.19721	.19932	.20493
#2	.18203	.20246	.19740	.19880	.20564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-374194/2-c Acquired: 8/29/2017 16:51:01 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20241
Stddev	.00060
%RSD	.29501
#1	.20199
#2	.20283
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4027.1	2754.6	21808.	4299.6
Stddev	4.3	3.5	56.	22.9
%RSD	.10568	.12803	.25826	.53268
#1	4030.1	2757.1	21848.	4315.8
#2	4024.1	2752.2	21769.	4283.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.523%	99.626%	98.989%	103.49%
Range				

Sample Name: 480-123260-a-1-c Acquired: 8/29/2017 16:54:26 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**-.02095**	**-.00128**	**.01957**	**.00805**
Stddev	.00020	.00525	.00006	.00013	.00022
%RSD	28.628	25.048	4.8513	.65371	2.6856
#1	-.00055	-.02466	-.00124	.01948	.00790
#2	-.00084	-.01724	-.00133	.01966	.00821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**22.877**	**-.00003**	**-.0173**	**.00026**
Stddev	.00002	.035	.00003	.0359	.00014
%RSD	6.8973	.15298	106.96	208.1	54.407
#1	-.00024	22.852	-.00006	-.0427	.00016
#2	-.00022	22.902	-.00001	.0081	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00110**	**-.00287**	**8.3767**	**.00008**
Stddev	.00024	.00077	.00116	.0373	.00041
%RSD	111.55	69.704	40.445	.44518	527.47
#1	-.00005	.00056	-.00205	8.3503	-.00021
#2	-.00039	.00165	-.00369	8.4031	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-1-c Acquired: 8/29/2017 16:54:26 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0326**	**.38159**	**-.00024**	**7.3412**	**.00934**
Stddev	.0931	.01257	.00007	.0107	.00026
%RSD	3.0687	3.2954	28.020	.14541	2.8267
#1	2.9668	.37270	-.00019	7.3337	.00953
#2	3.0984	.39048	-.00028	7.3488	.00915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00179**	**16.468**	**.00023**	**-.00028**	**8.3180**
Stddev	.00145	.013	.00162	.00079	.0030
%RSD	81.068	.07866	689.50	282.37	.03554
#1	.00076	16.459	-.00091	.00028	8.3201
#2	.00282	16.477	.00138	-.00084	8.3159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.14535**	**.00004**	**.00086**	**-.00022**
Stddev	.00005	.00010	.00067	.00028	.00004
%RSD	81.787	.07210	1616.3	32.193	16.521
#1	.00003	.14528	.00051	.00106	-.00024
#2	.00009	.14542	-.00043	.00067	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-1-c Acquired: 8/29/2017 16:54:26 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00521
Stddev	.00019
%RSD	3.6046
#1	.00534
#2	.00508
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4097.3	2737.5	21319.	4295.3
Stddev	6.3	.6	649.	11.5
%RSD	.15443	.02173	3.0450	.26775
#1	4092.8	2737.1	21778.	4303.5
#2	4101.8	2737.9	20860.	4287.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.172%	99.005%	96.767%	103.39%
Range				

Sample Name: 480-123260-a-1-cSD@5 Acquired: 8/29/2017 16:58:01 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.03834**	**-.00000**	**.00299**	**.00145**
Stddev	.00006	.00370	.00117	.00021	.00004
%RSD	156.83	9.6411	33955.	7.1029	2.5054
#1	.00008	-.03572	-.00083	.00314	.00142
#2	-.00000	-.04095	.00082	.00284	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**4.4180**	**-.00014**	**-.0454**	**-.00024**
Stddev	.00004	.0215	.00008	.0113	.00009
%RSD	19.412	.48547	57.671	24.82	39.624
#1	-.00024	4.4332	-.00008	-.0374	-.00030
#2	-.00018	4.4028	-.00019	-.0533	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00013**	**-.00727**	**1.5636**	**-.00152**
Stddev	.00071	.00062	.00255	.0237	.00071
%RSD	136.49	470.85	35.030	1.5158	46.765
#1	.00002	-.00031	-.00907	1.5468	-.00202
#2	.00102	.00057	-.00547	1.5803	-.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-1-cSD@5 Acquired: 8/29/2017 16:58:01 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.57043**	**.07213**	**-.00038**	**1.4185**	**.00155**
Stddev	.00544	.00033	.00003	.0044	.00020
%RSD	.95434	.46179	7.1955	.31104	12.756
#1	.57428	.07237	-.00040	1.4154	.00169
#2	.56658	.07190	-.00036	1.4217	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00056**	**3.0923**	**-.00057**	**-.00245**	**1.5776**
Stddev	.00005	.0059	.00154	.00190	.0031
%RSD	8.1944	.19077	270.39	77.497	.19580
#1	-.00053	3.0881	-.00165	-.00111	1.5755
#2	-.00059	3.0964	.00052	-.00379	1.5798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.02768**	**.00001**	**.00103**	**-.00000**
Stddev	.00021	.00014	.00072	.00156	.00008
%RSD	122.63	.49292	11411.	152.11	1972.7
#1	-.00033	.02758	-.00050	-.00008	-.00006
#2	-.00002	.02777	.00052	.00213	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-1-cSD@5 Acquired: 8/29/2017 16:58:01 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00097
Stddev	.00031
%RSD	31.762
#1	.00118
#2	.00075
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4214.4	2751.5	21830.	4247.2
Stddev	11.2	10.4	22.	11.5
%RSD	.26674	.37804	.10099	.27035
#1	4206.4	2744.1	21815.	4239.1
#2	4222.3	2758.8	21846.	4255.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.919%	99.511%	99.088%	102.23%
Range				

Sample Name: 480-123260-a-1-c PDS Acquired: 8/29/2017 17:01:37 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04816**	**19.579**	**.20046**	**.41801**	**.41178**
Stddev	.00049	.197	.00278	.00033	.00206
%RSD	1.0103	1.0080	1.3868	.07911	.50067
#1	.04781	19.440	.19849	.41824	.41033
#2	.04850	19.719	.20242	.41777	.41324
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20052**	**31.710**	**.20387**	**-.0032**	**.19143**
Stddev	.00134	.244	.00039	.0077	.00004
%RSD	.66591	.76888	.19314	241.8	.02264
#1	.19958	31.538	.20415	-.0087	.19140
#2	.20147	31.882	.20359	.0023	.19146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20349**	**.20713**	**10.130**	**27.748**	**.39548**
Stddev	.00195	.00244	.048	.190	.00199
%RSD	.95793	1.1797	.47447	.68324	.50339
#1	.20211	.20540	10.096	27.614	.39408
#2	.20487	.20885	10.164	27.883	.39689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-1-c PDS Acquired: 8/29/2017 17:01:37 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.003**	**.56112**	**.19462**	**26.699**	**.20366**
Stddev	.055	.00268	.00004	.156	.00026
%RSD	.42052	.47728	.01939	.58287	.12749
#1	12.964	.55923	.19465	26.589	.20348
#2	13.041	.56302	.19459	26.809	.20385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20302**	**25.628**	**.20567**	**.20277**	**17.742**
Stddev	.00052	.028	.00070	.00119	.117
%RSD	.25646	.11085	.34105	.58665	.65968
#1	.20339	25.648	.20617	.20193	17.659
#2	.20265	25.608	.20517	.20362	17.824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19884**	**.53325**	**.19682**	**.19995**	**.20349**
Stddev	.00066	.00339	.00070	.00052	.00026
%RSD	.33057	.63637	.35519	.25796	.12664
#1	.19838	.53086	.19731	.20031	.20331
#2	.19931	.53565	.19632	.19958	.20367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-1-c PDS Acquired: 8/29/2017 17:01:37 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20689
Stddev	.00222
%RSD	1.0730
#1	.20532
#2	.20846
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3871.7	2728.3	21389.	4318.9
Stddev	.3	5.9	85.	50.2
%RSD	.00686	.21464	.39637	1.1614
#1	3871.9	2724.2	21448.	4354.4
#2	3871.6	2732.5	21329.	4283.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.878%	98.674%	97.083%	103.96%
Range				

Sample Name: 480-123260-a-1-d ms Acquired: 8/29/2017 17:05:03 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04505	10.153	.20641	.22861	.21663
Stddev	.00112	.002	.00029	.00038	.00019
%RSD	2.4932	.02224	.14112	.16570	.08702
#1	.04584	10.155	.20662	.22887	.21676
#2	.04425	10.151	.20620	.22834	.21650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20607	32.750	.20707	-.0497	.19426
Stddev	.00006	.031	.00007	.0217	.00001
%RSD	.03047	.09504	.03448	43.61	.00300
#1	.20611	32.772	.20712	-.0650	.19425
#2	.20602	32.728	.20702	-.0344	.19426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20560	.20835	10.336	18.569	.20524
Stddev	.00021	.00017	.024	.042	.00214
%RSD	.10105	.08013	.22869	.22591	1.0431
#1	.20546	.20823	10.353	18.598	.20675
#2	.20575	.20847	10.320	18.539	.20373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-1-d ms Acquired: 8/29/2017 17:05:03 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.279**	**.58055**	**.20442**	**17.485**	**.20780**
Stddev	.011	.00034	.00018	.050	.00085
%RSD	.08353	.05930	.08957	.28374	.41050
#1	13.271	.58079	.20455	17.520	.20719
#2	13.286	.58031	.20430	17.450	.20840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20684**	**26.607**	**.20383**	**.19950**	**18.543**
Stddev	.00078	.015	.00179	.00520	.032
%RSD	.37636	.05722	.87850	2.6053	.17358
#1	.20629	26.618	.20509	.20318	18.566
#2	.20739	26.597	.20256	.19583	18.520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18693**	**.34865**	**.20002**	**.20270**	**.20863**
Stddev	.00085	.00106	.00053	.00025	.00016
%RSD	.45568	.30520	.26554	.12418	.07585
#1	.18753	.34940	.19965	.20288	.20852
#2	.18633	.34790	.20040	.20252	.20874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-1-d ms Acquired: 8/29/2017 17:05:03 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20798
Stddev	.00092
%RSD	.44237
#1	.20732
#2	.20863
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3919.8	2729.1	21535.	4307.4
Stddev	.4	4.1	84.	19.9
%RSD	.01097	.15061	.39034	.46231
#1	3919.5	2726.2	21594.	4293.4
#2	3920.1	2732.0	21475.	4321.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.006%	98.701%	97.746%	103.68%
Range				

Sample Name: 480-123260-a-1-e msd Acquired: 8/29/2017 17:08:29 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04334**	**10.019**	**.20344**	**.22623**	**.21584**
Stddev	.00012	.037	.00116	.00003	.00021
%RSD	.27385	.36574	.57085	.01347	.09501
#1	.04343	9.9927	.20262	.22625	.21598
#2	.04326	10.045	.20427	.22620	.21569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20394**	**32.731**	**.20466**	**-.0160**	**.19197**
Stddev	.00067	.157	.00013	.0040	.00031
%RSD	.32743	.47882	.06221	24.93	.16081
#1	.20347	32.620	.20457	-.0132	.19175
#2	.20441	32.842	.20475	-.0188	.19219
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20294**	**.20872**	**10.212**	**18.546**	**.20232**
Stddev	.00077	.00041	.100	.105	.00104
%RSD	.38140	.19430	.98226	.56429	.51555
#1	.20239	.20901	10.141	18.472	.20158
#2	.20349	.20843	10.282	18.620	.20305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-1-e msd Acquired: 8/29/2017 17:08:29 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.291**	**.58316**	**.20054**	**17.397**	**.20630**
Stddev	.036	.00169	.00059	.074	.00028
%RSD	.26942	.28911	.29181	.42502	.13451
#1	13.316	.58436	.20013	17.345	.20610
#2	13.265	.58197	.20096	17.449	.20650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20369**	**26.506**	**.20234**	**.20100**	**18.335**
Stddev	.00163	.094	.00270	.00035	.122
%RSD	.80201	.35381	1.3359	.17323	.66493
#1	.20253	26.440	.20043	.20125	18.249
#2	.20484	26.572	.20425	.20075	18.422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18426**	**.34606**	**.19908**	**.20027**	**.20635**
Stddev	.00049	.00074	.00091	.00069	.00024
%RSD	.26745	.21411	.45763	.34555	.11626
#1	.18460	.34554	.19972	.19978	.20652
#2	.18391	.34659	.19844	.20075	.20618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-1-e msd Acquired: 8/29/2017 17:08:29 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20664**
Stddev	.00024
%RSD	.11598
#1	.20681
#2	.20647
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3918.9**	**2734.6**	**21528.**	**4309.4**
Stddev	2.7	3.0	131.	6.0
%RSD	.07013	.10974	.60793	.13877
#1	3920.9	2736.7	21435.	4313.6
#2	3917.0	2732.5	21620.	4305.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.985%	98.901%	97.715%	103.73%
Range				

Sample Name: 480-123260-a-2-e Acquired: 8/29/2017 17:11:55 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00084**	**-.00633**	**.00463**	**.02544**	**.01452**
Stddev	.00010	.02144	.00199	.00017	.00004
%RSD	12.027	338.64	42.958	.65655	.29795
#1	-.00077	.00883	.00604	.02532	.01449
#2	-.00091	-.02150	.00322	.02556	.01455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**11.140**	**-.00008**	**-.0051**	**.00343**
Stddev	.00005	.035	.00018	.0163	.00001
%RSD	20.370	.31736	226.76	321.6	.42936
#1	-.00029	11.115	-.00020	-.0166	.00341
#2	-.00022	11.165	.00005	.0065	.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.00025**	**5.1782**	**11.054**	**-.00096**
Stddev	.00029	.00011	.0010	.009	.00057
%RSD	82.645	45.892	.01862	.08181	59.171
#1	-.00015	.00017	5.1789	11.061	-.00136
#2	-.00056	.00033	5.1775	11.048	-.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-2-e Acquired: 8/29/2017 17:11:55 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.2607**	**2.7119**	**-.00019**	**4.1202**	**.00775**
Stddev	.0157	.0152	.00018	.0073	.00012
%RSD	.69513	.56132	98.829	.17730	1.5420
#1	2.2496	2.7012	-.00032	4.1150	.00784
#2	2.2718	2.7227	-.00006	4.1253	.00767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**14.648**	**-.00005**	**.00155**	**5.9791**
Stddev	.00040	.021	.00158	.00007	.0638
%RSD	26.635	.14204	3019.3	4.5302	1.0666
#1	.00122	14.634	.00107	.00160	5.9340
#2	.00178	14.663	-.00117	.00150	6.0242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.15733**	**.00003**	**.00030**	**.00029**
Stddev	.00005	.00028	.00028	.00090	.00020
%RSD	67.710	.17806	870.27	304.90	70.352
#1	.00004	.15713	-.00017	.00094	.00043
#2	.00010	.15753	.00023	-.00034	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123260-a-2-e Acquired: 8/29/2017 17:11:55 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00558
Stddev	.00055
%RSD	9.8518
#1	.00596
#2	.00519
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4132.1	2754.0	21924.	4297.7
Stddev	7.1	1.8	83.	12.3
%RSD	.17141	.06672	.37941	.28505
#1	4127.1	2755.3	21982.	4306.3
#2	4137.1	2752.7	21865.	4289.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.989%	99.601%	99.511%	103.45%
Range				

Sample Name: 480-123256-h-4-b Acquired: 8/29/2017 17:15:29 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.00141**	**-.00099**	**.48726**	**.07328**
Stddev	.00008	.00967	.00043	.00095	.00013
%RSD	8.2891	687.59	43.212	.19576	.17881
#1	-.00091	-.00543	-.00069	.48659	.07337
#2	-.00103	.00825	-.00130	.48794	.07318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**170.83**	**.00052**	**-.0289**	**.00105**
Stddev	.00002	.30	.00006	.0234	.00007
%RSD	9.0705	.17344	11.386	80.90	6.2217
#1	-.00027	171.04	.00056	-.0454	.00110
#2	-.00024	170.62	.00048	-.0124	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00150**	**.00072**	**9.2505**	**.00163**
Stddev	.00058	.00029	.00065	.0036	.00122
%RSD	392.40	19.452	90.117	.03859	74.664
#1	.00026	.00170	.00026	9.2480	.00077
#2	-.00055	.00129	.00118	9.2530	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123256-h-4-b Acquired: 8/29/2017 17:15:29 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**69.013**	**.22164**	**.00314**	**49.760**	**.00521**
Stddev	.208	.00147	.00018	.134	.00012
%RSD	.30116	.66286	5.6527	.26951	2.3644
#1	69.160	.22268	.00302	49.855	.00530
#2	68.866	.22060	.00327	49.665	.00513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00163**	**38.710**	**.00023**	**-.00314**	**5.1645**
Stddev	.00044	.019	.00003	.00091	.0102
%RSD	26.852	.04895	14.714	28.867	.19706
#1	.00194	38.724	.00026	-.00378	5.1717
#2	.00132	38.697	.00021	-.00250	5.1573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.75331**	**.00097**	**.00072**	**.00057**
Stddev	.00029	.00268	.00035	.00027	.00056
%RSD	377.90	.35533	36.088	37.325	97.914
#1	.00013	.75520	.00072	.00091	.00097
#2	-.00028	.75142	.00122	.00053	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123256-h-4-b Acquired: 8/29/2017 17:15:29 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00822
Stddev	.00048
%RSD	5.8647
#1	.00856
#2	.00788
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3591.8	2587.7	20473.	4231.9
Stddev	6.8	4.4	118.	6.8
%RSD	.18892	.17023	.57426	.16167
#1	3587.0	2584.6	20390.	4227.0
#2	3596.6	2590.8	20557.	4236.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.306%	93.589%	92.929%	101.86%
Range				

Sample Name: BLANK Acquired: 8/29/2017 17:19:03 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.01080**	**-.00056**	**-.00094**	**-.00013**
Stddev	.00013	.01617	.00206	.00030	.00000
%RSD	33.387	149.72	371.32	32.469	1.5803
#1	-.00029	.00063	.00090	-.00072	-.00014
#2	-.00047	-.02223	-.00202	-.00115	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.01787**	**-.00009**	**-.0237**	**-.00016**
Stddev	.00005	.00146	.00002	.0034	.00025
%RSD	21.417	8.1594	22.577	14.35	153.81
#1	-.00029	.01684	-.00011	-.0213	.00001
#2	-.00021	.01890	-.00008	-.0261	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00029**	**-.01031**	**-.02083**	**.00069**
Stddev	.00010	.00097	.00115	.00954	.00118
%RSD	101.80	333.41	11.134	45.784	172.13
#1	-.00003	.00039	-.01112	-.02757	-.00015
#2	-.00016	-.00097	-.00950	-.01409	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/29/2017 17:19:03 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00155**	**.00005**	**-.00034**	**.00539**	**-.00049**
Stddev	.00223	.00002	.00021	.00252	.00025
%RSD	143.66	29.173	61.521	46.649	52.155
#1	-.00002	.00004	-.00049	.00361	-.00031
#2	.00312	.00007	-.00019	.00717	-.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.01346**	**.00125**	**.00011**	**-.02168**
Stddev	.00061	.00055	.00017	.00239	.00442
%RSD	740.57	4.1205	13.362	2161.9	20.373
#1	.00052	.01386	.00137	-.00158	-.01855
#2	-.00035	.01307	.00113	.00180	-.02480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.00006**	**.00021**	**.00033**	**.00041**
Stddev	.00024	.00005	.00082	.00162	.00011
%RSD	158.48	90.771	398.25	488.48	27.187
#1	.00002	-.00002	.00078	.00148	.00033
#2	-.00032	-.00010	-.00037	-.00081	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/29/2017 17:19:03 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**-.00000**
Stddev	.00021
%RSD	6047.1
#1	-.00015
#2	.00014
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4282.5**	**2778.4**	**22116.**	**4255.4**
Stddev	3.4	2.5	108.	35.6
%RSD	.07926	.08843	.48997	.83759
#1	4284.9	2780.2	22039.	4280.6
#2	4280.1	2776.7	22193.	4230.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.52%	100.49%	100.39%	102.43%
Range				

Sample Name: CCV-4198708 Acquired: 8/29/2017 17:22:42 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51815**	**24.009**	**.49483**	**.50300**	**.49520**
Stddev	.00075	.167	.00318	.00055	.00082
%RSD	.14568	.69594	.64297	.10953	.16563
#1	.51868	24.127	.49708	.50261	.49578
#2	.51761	23.890	.49258	.50339	.49462
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50034**	**24.724**	**.49934**	**-.0351**	**.48634**
Stddev	.00326	.101	.00019	.0192	.00015
%RSD	.65240	.41013	.03737	54.75	.03024
#1	.50265	24.796	.49921	-.0486	.48624
#2	.49803	24.652	.49947	-.0215	.48645
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51639**	**.50945**	**24.120**	**24.887**	**.49566**
Stddev	.00083	.00370	.087	.234	.00358
%RSD	.16123	.72722	.36151	.93861	.72274
#1	.51580	.51207	24.182	25.052	.49819
#2	.51697	.50683	24.058	24.722	.49313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 17:22:42 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.031**	**.51214**	**.49055**	**24.992**	**.49231**
Stddev	.028	.00006	.00001	.145	.00045
%RSD	.11375	.01246	.00221	.58112	.09082
#1	25.011	.51209	.49056	25.094	.49262
#2	25.051	.51218	.49055	24.889	.49199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48911**	**25.201**	**.49431**	**.49754**	**24.095**
Stddev	.00326	.026	.00035	.00596	.050
%RSD	.66577	.10143	.07053	1.1969	.20792
#1	.49141	25.183	.49456	.50175	24.131
#2	.48680	25.219	.49407	.49333	24.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50678**	**.49712**	**.49164**	**.49443**	**.49999**
Stddev	.00140	.00301	.00304	.00339	.00047
%RSD	.27704	.60456	.61770	.68639	.09302
#1	.50578	.49925	.48949	.49683	.50032
#2	.50777	.49500	.49379	.49203	.49967
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 17:22:42 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.50274
Stddev	.00061
%RSD	.12054
#1	.50317
#2	.50232
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3840.6	2718.1	21236.	4201.4
Stddev	1.7	.8	89.	6.9
%RSD	.04364	.02989	.41863	.16362
#1	3841.8	2718.7	21299.	4196.5
#2	3839.4	2717.5	21174.	4206.2

Sample Name: CCB-4204839 Acquired: 8/29/2017 17:26:04 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.02757**	**-.00192**	**-.00043**	**-.00014**
Stddev	.00023	.01000	.00140	.00002	.00002
%RSD	77.943	36.267	72.956	5.4186	15.482
#1	-.00013	-.03464	-.00093	-.00041	-.00013
#2	-.00046	-.02050	-.00291	-.00044	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.01245**	**-.00015**	**-.0188**	**-.00012**
Stddev	.00011	.00382	.00004	.0254	.00002
%RSD	69.619	30.684	30.085	134.8	13.269
#1	-.00008	.01515	-.00018	-.0368	-.00011
#2	-.00023	.00975	-.00012	-.0009	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00074**	**-.00772**	**-.01677**	**-.00026**
Stddev	.00023	.00070	.00013	.00406	.00141
%RSD	138.81	94.750	1.6741	24.220	547.22
#1	-.00000	.00025	-.00763	-.01390	.00074
#2	-.00033	.00124	-.00781	-.01965	-.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 17:26:04 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.00007**	**-.00021**	**.00648**	**-.00034**
Stddev	.00068	.00001	.00004	.00333	.00047
%RSD	82.837	14.505	20.374	51.461	136.06
#1	.00034	.00007	-.00018	.00884	-.00001
#2	.00130	.00008	-.00024	.00412	-.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.01104**	**.00071**	**.00142**	**-.01661**
Stddev	.00032	.00018	.00001	.00178	.00006
%RSD	140.52	1.6513	2.0132	125.21	.33626
#1	.00046	.01117	.00070	.00268	-.01657
#2	.00000	.01092	.00072	.00016	-.01665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00006**	**.00067**	**.00055**	**-.00023**
Stddev	.00036	.00002	.00035	.00018	.00004
%RSD	111.68	32.298	52.644	32.977	18.043
#1	.00007	-.00007	.00042	.00042	-.00026
#2	.00058	-.00004	.00092	.00068	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 17:26:04 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00011**
Stddev	.00000
%RSD	3.8475
#1	-.00010
#2	-.00011
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4286.3**	**2780.2**	**22078.**	**4238.2**
Stddev	.1	1.6	46.	29.6
%RSD	.00178	.05693	.20921	.69894
#1	4286.4	2779.1	22045.	4217.3
#2	4286.3	2781.3	22111.	4259.2

Sample Name: CCVL-4195955 Acquired: 8/29/2017 17:29:43 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00609**	**.14150**	**.01260**	**.01932**	**.00192**
Stddev	.00053	.00437	.00116	.00014	.00001
%RSD	8.7651	3.0889	9.2106	.74184	.45321
#1	.00646	.13841	.01342	.01942	.00192
#2	.00571	.14459	.01178	.01922	.00193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**.50782**	**.00192**	**-.0146**	**.00350**
Stddev	.00006	.00909	.00004	.0059	.00018
%RSD	3.5316	1.7891	2.1180	40.35	5.1503
#1	.00178	.51424	.00195	-.0188	.00362
#2	.00187	.50140	.00189	-.0104	.00337
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00433**	**.01120**	**.04052**	**.44312**	**.02938**
Stddev	.00056	.00049	.00087	.01827	.00044
%RSD	12.863	4.3873	2.1468	4.1239	1.4838
#1	.00394	.01155	.04113	.45604	.02907
#2	.00472	.01086	.03990	.43019	.02969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 17:29:43 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20255**	**.00310**	**.00971**	**1.0097**	**.00883**
Stddev	.00297	.00007	.00025	.0128	.00025
%RSD	1.4647	2.2272	2.5827	1.2698	2.8615
#1	.20465	.00305	.00989	1.0188	.00901
#2	.20045	.00315	.00954	1.0007	.00865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00998**	**.20250**	**.01927**	**.02593**	**.47626**
Stddev	.00042	.00238	.00194	.00318	.00732
%RSD	4.2139	1.1734	10.087	12.259	1.5365
#1	.00969	.20418	.01789	.02368	.47109
#2	.01028	.20082	.02064	.02817	.48143
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00929**	**.00479**	**.00505**	**.02076**	**.00568**
Stddev	.00003	.00005	.00006	.00007	.00005
%RSD	.31341	1.0645	1.2655	.32448	.96273
#1	.00931	.00482	.00500	.02081	.00564
#2	.00927	.00475	.00509	.02072	.00572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 17:29:43 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01082
Stddev	.00076
%RSD	6.9769
#1	.01136
#2	.01029
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4245.6	2766.3	22023.	4236.1
Stddev	3.3	.2	28.	63.7
%RSD	.07886	.00643	.12907	1.5037
#1	4247.9	2766.2	22003.	4191.1
#2	4243.2	2766.5	22043.	4281.2

Sample Name: mb 480-374277/1-a Acquired: 8/29/2017 17:33:21 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00101**	**-.00198**	**-.00028**	**.00159**	**-.00004**
Stddev	.00017	.01198	.00059	.00044	.00002
%RSD	16.312	604.94	210.27	27.705	52.437
#1	-.00090	-.01045	-.00069	.00128	-.00006
#2	-.00113	.00649	.00014	.00190	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.04936**	**-.00006**	**-.0012**	**-.00015**
Stddev	.00012	.00266	.00004	.0131	.00002
%RSD	74.990	5.3924	66.427	1066.	15.979
#1	-.00025	.05124	-.00009	.0080	-.00017
#2	-.00008	.04748	-.00003	-.0105	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00178**	**-.00741**	**-.02873**	**-.00187**
Stddev	.00061	.00004	.00055	.03883	.00038
%RSD	516.66	2.3766	7.4475	135.14	20.462
#1	-.00055	.00175	-.00702	-.00128	-.00160
#2	.00032	.00181	-.00781	-.05619	-.00214
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-374277/1-a Acquired: 8/29/2017 17:33:21 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00342**	**.00258**	**-.00031**	**.02750**	**-.00011**
Stddev	.00022	.00004	.00000	.01078	.00046
%RSD	6.3386	1.7133	1.3658	39.219	404.93
#1	-.00327	.00255	-.00031	.03512	-.00044
#2	-.00357	.00261	-.00030	.01987	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.01347**	**-.00240**	**.00092**	**-.01738**
Stddev	.00041	.00283	.00041	.00033	.01021
%RSD	706.74	21.034	17.249	35.598	58.728
#1	.00023	.01548	-.00211	.00069	-.01016
#2	-.00035	.01147	-.00269	.00116	-.02460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.00002**	**.00011**	**.00073**	**.00049**
Stddev	.00045	.00007	.00033	.00102	.00026
%RSD	107.45	400.55	304.22	138.23	52.733
#1	-.00010	-.00007	.00034	.00145	.00067
#2	-.00074	.00003	-.00013	.00002	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: mb 480-374277/1-a Acquired: 8/29/2017 17:33:21 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00075
Stddev	.00036
%RSD	48.241
#1	.00050
#2	.00101
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4292.0	2782.1	22287.	4300.3
Stddev	2.0	.4	128.	6.9
%RSD	.04657	.01354	.57489	.16122
#1	4290.6	2781.9	22378.	4295.4
#2	4293.4	2782.4	22197.	4305.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.74%	100.62%	101.16%	103.51%
Range				

Sample Name: lcs 480-374277/2-a Acquired: 8/29/2017 17:36:59 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04467**	**9.9450**	**.19858**	**.20724**	**.20802**
Stddev	.00046	.0471	.00190	.00041	.00035
%RSD	1.0305	.47370	.95913	.19981	.16663
#1	.04499	9.9783	.19724	.20754	.20827
#2	.04434	9.9117	.19993	.20695	.20778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20172**	**9.8832**	**.20340**	**-.0135**	**.18816**
Stddev	.00021	.0237	.00026	.0013	.00037
%RSD	.10626	.23990	.12700	9.338	.19677
#1	.20157	9.9000	.20321	-.0144	.18843
#2	.20187	9.8664	.20358	-.0126	.18790
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20382**	**.20881**	**10.139**	**9.9996**	**.20262**
Stddev	.00116	.00106	.034	.0308	.00082
%RSD	.57088	.50601	.33545	.30818	.40273
#1	.20465	.20956	10.115	9.9778	.20204
#2	.20300	.20807	10.163	10.021	.20320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-374277/2-a Acquired: 8/29/2017 17:36:59 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.370**	**.21294**	**.19869**	**9.9979**	**.19318**
Stddev	.012	.00015	.00021	.0258	.00005
%RSD	.11778	.06875	.10788	.25810	.02580
#1	10.361	.21284	.19885	10.016	.19314
#2	10.378	.21305	.19854	9.9797	.19321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20092**	**9.9300**	**.19983**	**.19662**	**9.9812**
Stddev	.00017	.0053	.00077	.00890	.0270
%RSD	.08649	.05341	.38582	4.5287	.27046
#1	.20104	9.9337	.20037	.19033	10.000
#2	.20080	9.9262	.19928	.20292	9.9622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18106**	**.20049**	**.19543**	**.19775**	**.20362**
Stddev	.00066	.00013	.00025	.00145	.00004
%RSD	.36582	.06363	.12889	.73228	.02186
#1	.18059	.20040	.19561	.19878	.20365
#2	.18153	.20058	.19526	.19673	.20359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: lcs 480-374277/2-a Acquired: 8/29/2017 17:36:59 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20211
Stddev	.00041
%RSD	.20290
#1	.20240
#2	.20182
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4029.9	2754.6	21604.	4292.6
Stddev	1.6	1.1	23.	8.5
%RSD	.03888	.04045	.10799	.19814
#1	4028.8	2755.4	21620.	4298.6
#2	4031.0	2753.8	21587.	4286.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.589%	99.625%	98.061%	103.32%
Range				

Sample Name: 480-123304-g-1-a Acquired: 8/29/2017 17:40:25 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.03112**	**.00187**	**.98895**	**.05981**
Stddev	.00036	.00645	.00210	.00074	.00002
%RSD	145.02	20.734	112.49	.07467	.02616
#1	.00001	-.03569	.00336	.98843	.05979
#2	-.00050	-.02656	.00038	.98947	.05982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**282.37**	**.00140**	**-.0158**	**.00287**
Stddev	.00002	3.62	.00006	.0314	.00004
%RSD	8.2711	1.2821	4.0730	198.9	1.3696
#1	-.00024	279.81	.00144	.0064	.00284
#2	-.00021	284.93	.00136	-.0380	.00290
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.02028**	**8.0519**	**13.335**	**.03515**
Stddev	.00016	.00172	.0368	.040	.00064
%RSD	55.495	8.4728	.45650	.30321	1.8100
#1	-.00040	.01906	8.0259	13.307	.03560
#2	-.00018	.02149	8.0779	13.364	.03470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-1-a Acquired: 8/29/2017 17:40:25 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.221**	**2.5130**	**-.00028**	**64.445**	**.01762**
Stddev	.071	.0066	.00016	.549	.00010
%RSD	.15369	.26408	57.793	.85149	.58795
#1	46.171	2.5084	-.00017	64.057	.01769
#2	46.271	2.5177	-.00040	64.833	.01754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	F **96.509**	**-.00173**	**-.00134**	**9.4237**
Stddev	.00038	.019	.00044	.00116	.0648
%RSD	18.193	.01956	25.678	86.486	.68731
#1	.00181	96.496	-.00205	-.00052	9.3779
#2	.00234	96.522	-.00142	-.00216	9.4695
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**1.5475**	**-.00012**	**.00086**	**-.00027**
Stddev	.00016	.0066	.00003	.00038	.00045
%RSD	156.00	.42334	26.970	44.346	166.22
#1	-.00001	1.5429	-.00015	.00113	.00005
#2	.00021	1.5522	-.00010	.00059	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-1-a Acquired: 8/29/2017 17:40:25 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.01138
Stddev	.00021
%RSD	1.8319
#1	.01152
#2	.01123
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3513.2	2531.5	20076.	4164.9
Stddev	2.7	3.4	45.	8.7
%RSD	.07589	.13344	.22331	.20972
#1	3511.3	2529.1	20108.	4171.1
#2	3515.1	2533.9	20045.	4158.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.462%	91.556%	91.126%	100.25%
Range				

Sample Name: 480-123304-g-1-aSD@5 Acquired: 8/29/2017 17:44:04 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	s **.00008**	k **-.06283**	k **-.00013**	**-.00108**	s **-.00011**
Stddev	.00033	.00579	.00006	.00016	.00017
%RSD	400.89	9.2088	47.235	14.514	159.79
#1	s .00031	k -.06692	k -.00008	-.00097	s .00001
#2	-.00015	-.05874	-.00017	-.00119	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00020**	**.05432**	k **-.00033**	**-.0043**	k **-.00003**
Stddev	.00001	.02662	.00012	.0277	.00003
%RSD	5.2142	49.007	37.073	638.4	86.074
#1	k -.00020	.07315	k -.00042	.0153	k -.00001
#2	-.00021	.03550	-.00025	-.0239	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	s **-.00028**	s **-.00124**	**-.00621**	**-.02696**	**.00009**
Stddev	.00001	.00080	.00467	.02111	.00005
%RSD	4.0202	64.542	75.148	78.284	52.295
#1	s -.00029	s -.00181	-.00291	-.01204	.00013
#2	-.00027	-.00067	-.00951	-.04189	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-1-aSD@5 Acquired: 8/29/2017 17:44:04 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	s **.01276**	s **.00072**	**-.00030**	**-.00835**	**.00015**
Stddev	.00988	.00073	.00007	.00180	.00002
%RSD	77.463	101.17	22.023	21.500	11.471
#1	s .01974	s .00124	-.00025	-.00962	.00014
#2	.00577	.00021	-.00035	-.00708	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00058**	**.01891**	k **-.00103**	k **.00033**	**-.02332**
Stddev	.00013	.00097	.00019	.00091	.01704
%RSD	21.610	5.1136	18.846	275.16	73.072
#1	k -.00067	.01822	k -.00089	k -.00031	-.01127
#2	-.00049	.01959	-.00117	.00097	-.03537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.00011**	s **.00066**	k **.00213**	s **.00017**
Stddev	.00009	.00012	.00054	.00024	.00004
%RSD	51.964	102.99	81.544	11.379	21.156
#1	-.00011	.00020	s .00028	k .00196	s .00015
#2	-.00023	.00003	.00104	.00230	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-1-aSD@5 Acquired: 8/29/2017 17:44:04 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	s **-.00025**
Stddev	.00006
%RSD	26.366
#1	s -.00020
#2	-.00029
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**8006.9**	**5190.7**	^ *****	**5842.3**
Stddev	28.1	14.4	-----	1413.0
%RSD	.35047	.27695	-----	24.186
#1	7987.0	5180.6	^ -----	4843.2
#2	8026.7	5200.9	40863.	6841.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	187.94%	187.73%	137.58%	140.63%
Range				

Sample Name: 480-123304-g-1-a PDS Acquired: 8/29/2017 17:47:41 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04983**	**19.642**	**.21215**	**1.3466**	**.44953**
Stddev	.00122	.204	.00293	.0009	.00126
%RSD	2.4478	1.0387	1.3820	.06763	.27946
#1	.04896	19.498	.21008	1.3460	.44864
#2	.05069	19.787	.21422	1.3473	.45042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20419**	**280.60**	**.21505**	**-.0294**	**.20069**
Stddev	.00148	.38	.00011	.0265	.00051
%RSD	.72505	.13506	.05152	89.90	.25224
#1	.20314	280.87	.21497	-.0482	.20033
#2	.20524	280.33	.21513	-.0107	.20105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20570**	**.22977**	**17.808**	**32.530**	**.43559**
Stddev	.00213	.00069	.140	.298	.00076
%RSD	1.0365	.30072	.78695	.91609	.17438
#1	.20420	.23026	17.709	32.320	.43506
#2	.20721	.22928	17.907	32.741	.43613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-1-a PDS Acquired: 8/29/2017 17:47:41 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.303**	**2.6022**	**.19834**	**80.856**	**.21630**
Stddev	.267	.0127	.00032	.625	.00046
%RSD	.49204	.48998	.16167	.77319	.21441
#1	54.114	2.5932	.19857	80.414	.21597
#2	54.492	2.6112	.19811	81.298	.21663
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21298**	F **102.54**	**.21437**	**.21060**	**19.106**
Stddev	.00076	.09	.00033	.00264	.016
%RSD	.35791	.08954	.15345	1.2516	.08475
#1	.21352	102.47	.21460	.20874	19.095
#2	.21244	102.60	.21414	.21247	19.117
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20622**	**1.8868**	**.19977**	**.20147**	**.20574**
Stddev	.00070	.0075	.00157	.00043	.00186
%RSD	.34069	.39648	.78834	.21297	.90639
#1	.20572	1.8815	.19866	.20117	.20442
#2	.20672	1.8920	.20089	.20178	.20706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-1-a PDS Acquired: 8/29/2017 17:47:41 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.21166**
Stddev	.00270
%RSD	1.2736
#1	.20975
#2	.21356
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3444.4**	**2549.5**	**20101.**	**4177.7**
Stddev	2.5	3.6	107.	20.9
%RSD	.07200	.13959	.53138	.50099
#1	3446.2	2552.0	20177.	4192.5
#2	3442.7	2547.0	20026.	4162.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.848%	92.205%	91.240%	100.56%
Range				

Sample Name: 480-123304-g-1-b ms Acquired: 8/29/2017 17:51:13 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04582**	**10.096**	**.21164**	**1.1342**	**.25907**
Stddev	.00017	.089	.00043	.0001	.00030
%RSD	.38038	.87911	.20383	.00447	.11531
#1	.04594	10.158	.21133	1.1342	.25928
#2	.04570	10.033	.21194	1.1341	.25886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20216**	**269.33**	**.21254**	**-.0146**	**.19811**
Stddev	.00050	3.19	.00005	.0215	.00024
%RSD	.24711	1.1846	.02418	147.5	.12005
#1	.20252	271.58	.21251	.0006	.19828
#2	.20181	267.07	.21258	-.0298	.19794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19976**	**.22854**	**17.382**	**22.728**	**.23681**
Stddev	.00061	.00088	.064	.021	.00073
%RSD	.30429	.38483	.36930	.09020	.30837
#1	.19933	.22917	17.427	22.742	.23733
#2	.20019	.22792	17.336	22.713	.23629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-1-b ms Acquired: 8/29/2017 17:51:13 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.141**	**2.5243**	**.20016**	**70.454**	**.21699**
Stddev	.002	.0046	.00027	.358	.00009
%RSD	.00358	.18103	.13656	.50749	.04275
#1	53.139	2.5276	.20035	70.707	.21705
#2	53.142	2.5211	.19997	70.201	.21692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21121**	F **98.713**	**.20448**	**.20561**	**18.966**
Stddev	.00087	.020	.00219	.00214	.075
%RSD	.41112	.02059	1.0691	1.0395	.39443
#1	.21183	98.698	.20602	.20410	19.019
#2	.21060	98.727	.20293	.20712	18.913
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19096**	**1.6449**	**.19682**	**.19672**	**.20564**
Stddev	.00013	.0101	.00063	.00098	.00151
%RSD	.06596	.61386	.31839	.50054	.73667
#1	.19087	1.6521	.19726	.19741	.20671
#2	.19105	1.6378	.19637	.19602	.20457
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-1-b ms Acquired: 8/29/2017 17:51:13 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.20753**
Stddev	.00184
%RSD	.88816
#1	.20884
#2	.20623
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3472.2**	**2556.0**	**20235.**	**4201.5**
Stddev	.4	2.8	18.	16.6
%RSD	.01042	.11022	.08744	.39606
#1	3472.0	2554.0	20222.	4189.8
#2	3472.5	2558.0	20247.	4213.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.500%	92.442%	91.845%	101.13%
Range				

Sample Name: 480-123304-g-1-c msd Acquired: 8/29/2017 17:54:44 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04551	10.121	.21399	1.2050	.26413
Stddev	.00078	.005	.00196	.0029	.00058
%RSD	1.7246	.04719	.91362	.23843	.21882
#1	.04495	10.125	.21538	1.2070	.26372
#2	.04606	10.118	.21261	1.2030	.26454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20185	290.46	.21287	.0105	.19899
Stddev	.00045	.09	.00005	.0198	.00054
%RSD	.22282	.02985	.02402	188.3	.27078
#1	.20217	290.40	.21290	.0245	.19937
#2	.20153	290.52	.21283	-.0035	.19861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20192	.23194	18.004	23.555	.24014
Stddev	.00053	.00104	.144	.126	.00210
%RSD	.26458	.44798	.80215	.53546	.87635
#1	.20154	.23121	18.106	23.645	.24163
#2	.20229	.23268	17.902	23.466	.23865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-1-c msd Acquired: 8/29/2017 17:54:44 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.418**	**2.7049**	**.20097**	**74.522**	**.21838**
Stddev	.250	.0108	.00057	.136	.00084
%RSD	.44273	.40076	.28314	.18220	.38377
#1	56.241	2.6972	.20137	74.618	.21898
#2	56.595	2.7126	.20057	74.426	.21779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20982**	F **105.82**	**.20662**	**.20319**	**19.572**
Stddev	.00028	.38	.00071	.00295	.191
%RSD	.13281	.35566	.34530	1.4530	.97463
#1	.20962	106.08	.20712	.20110	19.707
#2	.21001	105.55	.20612	.20527	19.438
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19191**	**1.7492**	**.19780**	**.19534**	**.20557**
Stddev	.00027	.0090	.00080	.00220	.00170
%RSD	.14144	.51663	.40346	1.1258	.82491
#1	.19172	1.7556	.19723	.19690	.20437
#2	.19210	1.7428	.19836	.19379	.20677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-1-c msd Acquired: 8/29/2017 17:54:44 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.20766
Stddev	.00093
%RSD	.44849
#1	.20700
#2	.20832
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3439.4	2537.4	20053.	4195.5
Stddev	.6	.9	57.	9.4
%RSD	.01779	.03356	.28282	.22486
#1	3439.8	2536.8	20093.	4188.8
#2	3439.0	2538.0	20013.	4202.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.730%	91.769%	91.021%	100.99%
Range				

Sample Name: 480-123304-g-2-a Acquired: 8/29/2017 17:58:16 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.01577**	**.00003**	**.27904**	**.23487**
Stddev	.00053	.04596	.00208	.00041	.00003
%RSD	68.188	291.41	6595.4	.14858	.01395
#1	-.00114	-.04827	.00150	.27934	.23490
#2	-.00040	.01673	-.00144	.27875	.23485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**197.37**	**.00013**	**-.0019**	**-.00007**
Stddev	.00011	1.12	.00007	.0118	.00001
%RSD	52.654	.56590	55.562	606.6	13.565
#1	-.00014	196.58	.00018	-.0103	-.00007
#2	-.00030	198.16	.00008	.0064	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.00045**	**23.594**	**9.1735**	**.00480**
Stddev	.00056	.00043	.144	.0478	.00039
%RSD	112.36	97.130	.60869	.52102	8.1159
#1	.00089	.00075	23.492	9.1398	.00508
#2	.00010	.00014	23.695	9.2073	.00453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-2-a Acquired: 8/29/2017 17:58:16 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.461**	**.78269**	**-.00047**	**42.859**	**.00106**
Stddev	.088	.00304	.00002	.174	.00029
%RSD	.28913	.38806	4.3112	.40600	27.143
#1	30.399	.78055	-.00049	42.736	.00127
#2	30.524	.78484	-.00046	42.982	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00484**	**4.0978**	**-.00075**	**-.00149**	**6.9344**
Stddev	.00084	.0047	.00020	.00105	.0785
%RSD	17.369	.11465	26.210	70.468	1.1328
#1	.00424	4.1011	-.00089	-.00075	6.8789
#2	.00543	4.0945	-.00061	-.00223	6.9900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**1.3241**	**-.00005**	**.00107**	**.00078**
Stddev	.00041	.0033	.00038	.00081	.00039
%RSD	279.17	.24671	706.17	76.430	50.234
#1	-.00014	1.3218	.00022	.00049	.00050
#2	.00044	1.3264	-.00032	.00164	.00105
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-2-a Acquired: 8/29/2017 17:58:16 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00555
Stddev	.00045
%RSD	8.1473
#1	.00587
#2	.00523
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3616.6	2613.9	20601.	4249.0
Stddev	.4	.5	58.	43.6
%RSD	.01000	.01906	.28367	1.0262
#1	3616.4	2614.3	20642.	4279.8
#2	3616.9	2613.6	20560.	4218.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.889%	94.536%	93.508%	102.27%
Range				

Sample Name: 480-123304-g-3-a Acquired: 8/29/2017 18:01:49 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.04918**	**.00859**	**.41101**	**.25607**
Stddev	.00057	.01311	.00055	.00016	.00042
%RSD	53.871	26.667	6.4217	.03848	.16592
#1	-.00145	.03991	.00820	.41090	.25637
#2	-.00065	.05845	.00898	.41112	.25577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**261.12**	**.00031**	**-.0259**	**.00597**
Stddev	.00003	1.21	.00009	.0103	.00004
%RSD	9.7962	.46176	28.758	39.70	.70488
#1	-.00029	261.97	.00037	-.0332	.00594
#2	-.00025	260.27	.00024	-.0186	.00600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00063**	**16.251**	**10.032**	**.00341**
Stddev	.00015	.00103	.028	.023	.00270
%RSD	29.740	162.54	.17389	.23333	79.307
#1	-.00061	.00136	16.231	10.015	.00150
#2	-.00040	-.00009	16.271	10.049	.00532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-3-a Acquired: 8/29/2017 18:01:49 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**52.616**	**1.6330**	**-.00012**	**64.022**	**.00548**
Stddev	.202	.0030	.00016	.468	.00020
%RSD	.38417	.18520	129.87	.73111	3.5890
#1	52.759	1.6352	-.00001	63.691	.00534
#2	52.473	1.6309	-.00023	64.353	.00562
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**3.5150**	**-.00141**	**-.00040**	**9.5893**
Stddev	.00172	.0053	.00182	.00312	.0439
%RSD	112.90	.14983	129.10	789.97	.45808
#1	.00031	3.5113	-.00270	-.00260	9.5582
#2	.00275	3.5187	-.00012	.00181	9.6203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00048**	**1.2275**	**.00308**	**.00128**	**.00004**
Stddev	.00008	.0026	.00038	.00070	.00012
%RSD	16.418	.21080	12.398	54.472	271.50
#1	-.00042	1.2257	.00335	.00079	.00013
#2	-.00053	1.2294	.00281	.00178	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-3-a Acquired: 8/29/2017 18:01:49 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00335**
Stddev	.00002
%RSD	.55039
#1	.00337
#2	.00334
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3513.5**	**2574.0**	**20315.**	**4221.9**
Stddev	.7	2.6	19.	25.7
%RSD	.01915	.10183	.09108	.60959
#1	3513.0	2575.9	20328.	4240.1
#2	3514.0	2572.2	20302.	4203.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.469%	93.093%	92.212%	101.62%
Range				

Sample Name: CCV-4198708 Acquired: 8/29/2017 18:05:28 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52054**	**23.829**	**.49774**	**.50521**	**.49652**
Stddev	.00475	.070	.00040	.00022	.00469
%RSD	.91263	.29203	.08087	.04379	.94418
#1	.52390	23.780	.49802	.50537	.49984
#2	.51718	23.879	.49745	.50505	.49321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49940**	**24.521**	**.49923**	**-.0064**	**.48325**
Stddev	.00009	.024	.00006	.0097	.00012
%RSD	.01770	.09676	.01292	152.7	.02437
#1	.49946	24.537	.49927	-.0133	.48316
#2	.49934	24.504	.49918	.0005	.48333
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51128**	**.51233**	**24.068**	**25.060**	**.49378**
Stddev	.00264	.00380	.038	.038	.00174
%RSD	.51650	.74192	.15659	.15145	.35279
#1	.51315	.51502	24.095	25.087	.49255
#2	.50941	.50964	24.042	25.033	.49501
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 18:05:28 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.036**	**.51066**	**.48723**	**24.956**	**.49092**
Stddev	.151	.00396	.00023	.008	.00122
%RSD	.60155	.77636	.04663	.03095	.24800
#1	25.142	.51346	.48707	24.962	.49178
#2	24.929	.50785	.48739	24.951	.49005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48738**	**25.171**	**.49375**	**.49604**	**23.925**
Stddev	.00062	.013	.00076	.00160	.013
%RSD	.12660	.05290	.15389	.32251	.05442
#1	.48695	25.161	.49429	.49717	23.915
#2	.48782	25.180	.49322	.49491	23.934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50377**	**.49342**	**.49247**	**.49324**	**.49805**
Stddev	.00043	.00003	.00320	.00025	.00382
%RSD	.08606	.00601	.65015	.05063	.76696
#1	.50346	.49339	.49473	.49306	.50075
#2	.50408	.49344	.49021	.49341	.49535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 18:05:28 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.50123**
Stddev	.00539
%RSD	1.0762
#1	.50504
#2	.49742
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3853.8**	**2724.2**	**21225.**	**4233.3**
Stddev	2.2	3.1	169.	4.1
%RSD	.05739	.11554	.79838	.09792
#1	3855.3	2726.5	21105.	4236.2
#2	3852.2	2722.0	21345.	4230.4

Sample Name: CCB-4204839 Acquired: 8/29/2017 18:08:54 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.05311**	**-.00078**	**.00093**	**-.00021**
Stddev	.00071	.00663	.00219	.00044	.00000
%RSD	500.58	12.479	280.24	47.811	1.6261
#1	.00036	-.05779	-.00233	.00124	-.00021
#2	-.00064	-.04842	.00077	.00061	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.00887**	**-.00014**	**-.0274**	**-.00018**
Stddev	.00019	.00184	.00011	.0471	.00008
%RSD	70.602	20.705	84.460	171.6	43.026
#1	-.00040	.01016	-.00005	-.0607	-.00012
#2	-.00013	.00757	-.00022	.0059	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**-.00011**	**-.01013**	**-.02246**	**-.00121**
Stddev	.00000	.00049	.00171	.01830	.00134
%RSD	.95656	457.32	16.898	81.482	110.31
#1	.00023	.00024	-.00892	-.00952	-.00027
#2	.00024	-.00045	-.01134	-.03540	-.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 18:08:54 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00902**	**-.00012**	**-.00029**	**.00335**	**-.00039**
Stddev	.00312	.00004	.00016	.01189	.00034
%RSD	34.551	28.972	53.905	355.10	89.165
#1	-.01122	-.00015	-.00018	-.00506	-.00014
#2	-.00682	-.00010	-.00040	.01176	-.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**-.00401**	**.00008**	**-.00188**	**-.02202**
Stddev	.00119	.00041	.00035	.00458	.00250
%RSD	167.08	10.172	460.15	243.33	11.342
#1	-.00013	-.00430	-.00017	-.00512	-.02026
#2	.00156	-.00372	.00032	.00136	-.02379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00019**	**.00052**	**.00066**	**-.00000**
Stddev	.00044	.00009	.00023	.00096	.00022
%RSD	638.63	47.392	43.541	145.88	5762.0
#1	-.00038	-.00025	.00036	-.00002	.00015
#2	.00024	-.00013	.00068	.00134	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 18:08:54 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.00018
Stddev	.00027
%RSD	150.91
#1	.00037
#2	-.00001
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4254.9	2752.5	21990.	4250.2
Stddev	29.0	21.0	38.	19.9
%RSD	.68216	.76459	.17240	.46905
#1	4275.4	2767.4	22017.	4236.1
#2	4234.4	2737.6	21963.	4264.3

Sample Name: CCVL-4195955 Acquired: 8/29/2017 18:12:32 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00487**	W **.13190**	**.01557**	**.02029**	**.00193**
Stddev	.00029	.00504	.00095	.00005	.00001
%RSD	5.9863	3.8186	6.0755	.24358	.50759
#1	.00467	.12834	.01624	.02033	.00192
#2	.00508	.13546	.01490	.02026	.00194
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value		.20000			
Range		-30.000%			

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**.49875**	**.00194**	**-.0173**	**.00367**
Stddev	.00004	.00135	.00013	.0308	.00008
%RSD	1.9721	.27026	6.4732	177.7	2.3097
#1	.00189	.49970	.00185	-.0391	.00361
#2	.00183	.49780	.00203	.0044	.00373
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00407**	**.01037**	**.03736**	**.45438**	**.03029**
Stddev	.00031	.00071	.00070	.02302	.00105
%RSD	7.5120	6.8124	1.8821	5.0659	3.4688
#1	.00385	.00987	.03785	.47065	.02955
#2	.00429	.01087	.03686	.43810	.03104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 18:12:32 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19574**	**.00290**	**.00962**	**1.0020**	**.00903**
Stddev	.00273	.00002	.00007	.0062	.00019
%RSD	1.3925	.68211	.70216	.61908	2.1244
#1	.19381	.00288	.00957	1.0064	.00889
#2	.19767	.00291	.00967	.99760	.00917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00987**	**.19158**	**.01908**	**.02220**	**.46874**
Stddev	.00008	.00013	.00039	.00221	.01287
%RSD	.80305	.06969	2.0237	9.9607	2.7459
#1	.00993	.19148	.01881	.02376	.47784
#2	.00981	.19167	.01935	.02063	.45964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00936**	**.00480**	**.00493**	**.02026**	**.00538**
Stddev	.00030	.00003	.00040	.00075	.00015
%RSD	3.1908	.57052	8.2075	3.6894	2.8247
#1	.00915	.00482	.00465	.01973	.00528
#2	.00957	.00478	.00522	.02078	.00549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 18:12:32 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01053
Stddev	.00099
%RSD	9.3835
#1	.00983
#2	.01123
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4244.5	2760.2	21981.	4225.4
Stddev	7.8	7.2	86.	46.4
%RSD	.18347	.26091	.39174	1.0970
#1	4239.0	2755.1	22041.	4192.6
#2	4250.0	2765.3	21920.	4258.2

Sample Name: 480-123304-g-4-a Acquired: 8/29/2017 18:16:10 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**-.01775**	**.00310**	**.47304**	**.03093**
Stddev	.00007	.00068	.00434	.00131	.00033
%RSD	9.0746	3.8318	139.93	.27681	1.0517
#1	-.00081	-.01823	.00003	.47212	.03116
#2	-.00072	-.01727	.00616	.47397	.03070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**441.45**	**.00020**	**-.0072**	**.00234**
Stddev	.00015	3.08	.00026	.0172	.00011
%RSD	43.850	.69792	130.52	239.4	4.8270
#1	-.00045	439.27	.00038	-.0194	.00226
#2	-.00024	443.62	.00002	.0050	.00242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00168**	**2.8717**	**14.305**	**-.00203**
Stddev	.00023	.00095	.0052	.112	.00018
%RSD	1093.7	56.666	.18013	.77978	9.1022
#1	.00014	-.00101	2.8680	14.226	-.00216
#2	-.00019	-.00236	2.8753	14.384	-.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-4-a Acquired: 8/29/2017 18:16:10 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**101.64**	**1.5883**	**-.00040**	**66.106**	**.00558**
Stddev	1.07	.0151	.00031	.363	.00028
%RSD	1.0560	.94850	77.062	.54903	5.0975
#1	102.39	1.5989	-.00062	65.849	.00537
#2	100.88	1.5776	-.00018	66.362	.00578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	F **223.80**	**-.00168**	**-.00145**	**7.0893**
Stddev	.00025	.24	.00009	.00501	.0065
%RSD	83.613	.10874	5.1415	344.87	.09215
#1	-.00047	223.63	-.00174	-.00499	7.0939
#2	-.00012	223.98	-.00162	.00209	7.0847
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**1.0129**	**-.00032**	**.00106**	**-.00036**
Stddev	.00040	.0022	.00027	.00048	.00018
%RSD	139.34	.21744	82.845	45.204	48.969
#1	.00056	1.0114	-.00013	.00140	-.00024
#2	.00000	1.0145	-.00051	.00072	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-4-a Acquired: 8/29/2017 18:16:10 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00197
Stddev	.00036
%RSD	18.376
#1	.00222
#2	.00171
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3354.6	2462.0	19556.	4167.7
Stddev	1.2	.5	138.	.9
%RSD	.03508	.02206	.70710	.02080
#1	3353.7	2462.4	19459.	4168.3
#2	3355.4	2461.7	19654.	4167.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.738%	89.043%	88.767%	100.32%
Range				

Sample Name: 480-123304-g-5-a Acquired: 8/29/2017 18:19:48 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00109**	**-.00662**	**.00099**	**.49277**	**.05734**
Stddev	.00050	.00633	.00360	.00098	.00015
%RSD	46.054	95.628	363.96	.19818	.25604
#1	-.00073	-.00214	-.00156	.49208	.05745
#2	-.00144	-.01109	.00353	.49346	.05724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**237.56**	**.00026**	**-.0175**	**.00260**
Stddev	.00001	.93	.00004	.0106	.00001
%RSD	1.9676	.39047	16.212	60.25	.56997
#1	-.00032	238.21	.00023	-.0250	.00259
#2	-.00033	236.90	.00029	-.0101	.00261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**-.00124**	**.77333**	**11.480**	**.01096**
Stddev	.00044	.00071	.00205	.015	.00033
%RSD	2030.8	57.433	.26533	.13060	2.9944
#1	-.00034	-.00074	.77478	11.490	.01119
#2	.00029	-.00175	.77188	11.469	.01073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-5-a Acquired: 8/29/2017 18:19:48 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**54.161**	**1.6183**	**.00274**	**27.097**	**.00401**
Stddev	.061	.0059	.00015	.166	.00029
%RSD	.11296	.36271	5.6438	.61310	7.1546
#1	54.204	1.6224	.00285	27.215	.00422
#2	54.118	1.6141	.00263	26.980	.00381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00237**	F **136.54**	**-.00030**	**-.00131**	**8.4379**
Stddev	.00202	.04	.00040	.00030	.0514
%RSD	85.325	.02872	131.36	22.948	.60911
#1	.00380	136.56	-.00059	-.00110	8.4743
#2	.00094	136.51	-.00002	-.00153	8.4016
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**1.0429**	**.00011**	**.00083**	**-.00006**
Stddev	.00012	.0071	.00034	.00108	.00017
%RSD	614.84	.67909	292.91	130.33	276.80
#1	.00006	1.0479	-.00012	.00007	.00006
#2	-.00010	1.0379	.00035	.00159	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-5-a Acquired: 8/29/2017 18:19:48 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00286
Stddev	.00043
%RSD	15.154
#1	.00256
#2	.00317
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3592.8	2559.9	20306.	4176.0
Stddev	4.5	.3	99.	23.5
%RSD	.12448	.01088	.48577	.56393
#1	3589.6	2560.1	20237.	4159.4
#2	3596.0	2559.7	20376.	4192.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.330%	92.583%	92.171%	100.52%
Range				

Sample Name: 480-123304-a-6-a Acquired: 8/29/2017 18:23:21 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00077**	**2.4765**	**.00160**	**.05400**	**.04164**
Stddev	.00064	.0198	.00365	.00008	.00033
%RSD	82.187	.79939	228.55	.15722	.80203
#1	-.00122	2.4625	.00418	.05406	.04140
#2	-.00032	2.4905	-.00098	.05394	.04187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**35.537**	**.00010**	**-.0246**	**.00087**
Stddev	.00002	.094	.00003	.0077	.00009
%RSD	66.905	.26480	24.837	31.39	10.023
#1	-.00002	35.471	.00012	-.0192	.00093
#2	-.00005	35.604	.00008	-.0301	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00226**	**.00478**	**4.5708**	**4.1748**	**.00045**
Stddev	.00038	.00110	.0064	.0139	.00096
%RSD	16.754	22.941	.13957	.33390	213.49
#1	.00200	.00555	4.5663	4.1649	.00113
#2	.00253	.00400	4.5754	4.1846	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-a-6-a Acquired: 8/29/2017 18:23:21 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8743**	**.26037**	**-.00017**	**2.2769**	**.00268**
Stddev	.0608	.00141	.00010	.0297	.00017
%RSD	.68503	.54285	59.200	1.3045	6.4727
#1	8.8314	.25937	-.00025	2.2559	.00280
#2	8.9173	.26137	-.00010	2.2979	.00256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00422**	**3.1826**	**-.00034**	**.00003**	**5.6751**
Stddev	.00081	.0113	.00058	.00160	.0104
%RSD	19.181	.35513	168.14	5317.5	.18393
#1	.00364	3.1906	.00006	-.00110	5.6825
#2	.00479	3.1746	-.00075	.00116	5.6677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.11045**	**.04879**	**.00082**	**.00484**
Stddev	.00022	.00087	.00582	.00034	.00006
%RSD	48.597	.78640	11.919	41.285	1.1890
#1	-.00061	.10984	.05290	.00107	.00480
#2	-.00030	.11107	.04468	.00058	.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-a-6-a Acquired: 8/29/2017 18:23:21 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.02559
Stddev	.00081
%RSD	3.1668
#1	.02502
#2	.02616
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4046.6	2759.5	21913.	4354.2
Stddev	1.4	2.5	53.	10.9
%RSD	.03450	.09068	.24117	.25027
#1	4045.6	2757.8	21950.	4361.9
#2	4047.6	2761.3	21875.	4346.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.981%	99.803%	99.462%	104.81%
Range				

Sample Name: 480-123304-g-7-a Acquired: 8/29/2017 18:26:56 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00154**	**.00202**	**-.00037**	**.48995**	**.03283**
Stddev	.00011	.01745	.00252	.00181	.00007
%RSD	7.0660	862.65	679.87	.36860	.20546
#1	-.00162	-.01032	.00141	.48867	.03288
#2	-.00146	.01436	-.00215	.49122	.03278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**456.64**	**.00040**	**.0010**	**.00233**
Stddev	.00005	6.93	.00017	.0059	.00018
%RSD	20.043	1.5187	43.208	576.1	7.6765
#1	-.00020	451.73	.00027	.0052	.00220
#2	-.00027	461.54	.00052	-.0031	.00245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00183**	**2.9872**	**14.852**	**-.00144**
Stddev	.00012	.00019	.0069	.017	.00064
%RSD	489.51	10.267	.23037	.11484	44.545
#1	-.00006	-.00196	2.9823	14.840	-.00189
#2	.00011	-.00170	2.9920	14.864	-.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-7-a Acquired: 8/29/2017 18:26:56 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**104.94**	**1.6255**	**-.00066**	**67.924**	**.00545**
Stddev	.33	.0048	.00012	.256	.00014
%RSD	.31126	.29607	17.494	.37748	2.5416
#1	104.71	1.6221	-.00058	67.743	.00555
#2	105.18	1.6289	-.00074	68.105	.00535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	F **231.52**	**.00201**	**-.00542**	**7.3043**
Stddev	.00104	.36	.00088	.00070	.0256
%RSD	1290.0	.15572	43.854	12.928	.34975
#1	-.00081	231.26	.00263	-.00592	7.2862
#2	.00065	231.77	.00139	-.00493	7.3224
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		90.000			
Low Limit		-.20000			

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**1.0417**	**.00004**	**.00002**	**-.00124**
Stddev	.00015	.0039	.00028	.00107	.00044
%RSD	42.515	.37040	753.55	4306.6	35.310
#1	.00024	1.0390	.00024	.00078	-.00155
#2	.00046	1.0444	-.00016	-.00073	-.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123304-g-7-a Acquired: 8/29/2017 18:26:56 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00179
Stddev	.00041
%RSD	22.882
#1	.00208
#2	.00150
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3348.7	2462.9	19581.	4161.5
Stddev	4.2	3.9	86.	37.3
%RSD	.12578	.15878	.43755	.89533
#1	3351.7	2465.7	19641.	4187.8
#2	3345.7	2460.2	19520.	4135.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.600%	89.075%	88.877%	100.17%
Range				

Sample Name: 480-123283-d-1-b Acquired: 8/29/2017 18:30:34 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.01670**	**-.00034**	**.00707**	**.00825**
Stddev	.00048	.01802	.00075	.00025	.00002
%RSD	356.55	107.89	218.71	3.5322	.27721
#1	.00021	.00396	.00019	.00725	.00827
#2	-.00048	.02945	-.00087	.00690	.00824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**10.385**	**.00045**	**-.0089**	**-.00021**
Stddev	.00005	.051	.00005	.0056	.00006
%RSD	20.682	.48770	11.910	62.90	27.080
#1	-.00022	10.350	.00049	-.0129	-.00017
#2	-.00030	10.421	.00041	-.0049	-.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00101**	**.02681**	**.81692**	**.00061**
Stddev	.00031	.00101	.00038	.00467	.00094
%RSD	2503.2	100.26	1.4102	.57108	153.13
#1	.00020	.00173	.02707	.82022	.00127
#2	-.00023	.00029	.02654	.81362	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123283-d-1-b Acquired: 8/29/2017 18:30:34 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.393**	**.00408**	**-.00022**	**10.236**	**.00031**
Stddev	.017	.00007	.00001	.035	.00061
%RSD	.16292	1.7719	6.8461	.33803	195.06
#1	10.405	.00403	-.00021	10.211	-.00012
#2	10.381	.00413	-.00023	10.260	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00204**	**2.7824**	**-.00006**	**-.00233**	**8.8945**
Stddev	.00019	.0117	.00035	.00142	.0124
%RSD	9.1932	.42104	619.96	60.853	.13998
#1	.00190	2.7907	-.00030	-.00133	8.8856
#2	.00217	2.7741	.00019	-.00333	8.9033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.05956**	**.00149**	**.00068**	**.00052**
Stddev	.00020	.00025	.00059	.00099	.00032
%RSD	103.51	.42648	39.240	144.91	61.642
#1	-.00005	.05938	.00191	.00138	.00029
#2	-.00033	.05974	.00108	-.00002	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123283-d-1-b Acquired: 8/29/2017 18:30:34 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00302
Stddev	.00025
%RSD	8.3596
#1	.00320
#2	.00284
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4120.7	2764.7	21876.	4327.2
Stddev	3.6	3.3	76.	19.1
%RSD	.08620	.11934	.34607	.44042
#1	4118.2	2762.4	21822.	4340.7
#2	4123.2	2767.0	21930.	4313.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.721%	99.990%	99.296%	104.16%
Range				

Sample Name: 480-123283-d-2-d Acquired: 8/29/2017 18:34:09 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	**-.01504**	**.02153**	**.02432**	**.00370**
Stddev	.00157	.01355	.00037	.00017	.00005
%RSD	291.85	90.110	1.7082	.68885	1.2472
#1	-.00164	-.02462	.02127	.02444	.00367
#2	.00057	-.00546	.02179	.02420	.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**16.541**	**-.00011**	**-.0052**	**-.00031**
Stddev	.00004	.113	.00010	.0077	.00005
%RSD	11.793	.68613	87.247	149.0	15.468
#1	-.00028	16.621	-.00004	.0003	-.00027
#2	-.00033	16.461	-.00019	-.0106	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00040**	**.00765**	**-.00713**	**3.7044**	**.00410**
Stddev	.00005	.00090	.00227	.0231	.00007
%RSD	12.754	11.788	31.857	.62230	1.6765
#1	-.00043	.00829	-.00873	3.7207	.00414
#2	-.00036	.00702	-.00552	3.6881	.00405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123283-d-2-d Acquired: 8/29/2017 18:34:09 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3236**	**.00906**	**.00072**	**11.709**	**-.00041**
Stddev	.0066	.00006	.00008	.061	.00000
%RSD	.19782	.62391	11.224	.51772	.52311
#1	3.3190	.00910	.00077	11.752	-.00041
#2	3.3283	.00902	.00066	11.666	-.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00147**	**2.2775**	**-.00006**	**-.00128**	**5.5502**
Stddev	.00028	.0084	.00157	.00053	.0010
%RSD	19.209	.36808	2548.9	41.295	.01864
#1	.00127	2.2716	.00105	-.00091	5.5510
#2	.00167	2.2834	-.00117	-.00165	5.5495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.07144**	**.00010**	**.00056**	**-.00029**
Stddev	.00004	.00029	.00015	.00020	.00059
%RSD	9.6664	.40549	161.74	36.610	199.53
#1	-.00044	.07164	-.00001	.00041	-.00071
#2	-.00038	.07123	.00020	.00070	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123283-d-2-d Acquired: 8/29/2017 18:34:09 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.04567
Stddev	.00022
%RSD	.47707
#1	.04551
#2	.04582
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4115.8	2743.6	21820.	4292.9
Stddev	2.4	4.1	54.	44.5
%RSD	.05920	.14867	.24611	1.0363
#1	4114.1	2746.4	21858.	4261.5
#2	4117.5	2740.7	21783.	4324.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.605%	99.225%	99.044%	103.33%
Range				

Sample Name: 480-123283-d-3-b Acquired: 8/29/2017 18:37:45 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**-.03042**	**.01313**	**.00534**	**.00422**
Stddev	.00010	.01401	.00108	.00016	.00001
%RSD	14.062	46.065	8.2164	2.9421	.13774
#1	-.00066	-.02051	.01390	.00523	.00423
#2	-.00080	-.04033	.01237	.00545	.00422
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**29.915**	**.00000**	**.0084**	**-.00029**
Stddev	.00004	.084	.00019	.0018	.00011
%RSD	13.773	.28088	8374.4	21.60	36.437
#1	-.00025	29.856	.00013	.0097	-.00022
#2	-.00030	29.975	-.00013	.0072	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00772**	**-.00792**	**4.2741**	**.00642**
Stddev	.00001	.00249	.00008	.0184	.00099
%RSD	2.7997	32.260	1.0224	.43035	15.373
#1	-.00042	.00949	-.00787	4.2871	.00712
#2	-.00041	.00596	-.00798	4.2611	.00572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123283-d-3-b Acquired: 8/29/2017 18:37:45 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8650**	**.03537**	**.00091**	**3.6192**	**-.00062**
Stddev	.0056	.00009	.00013	.0133	.00007
%RSD	.09607	.24298	13.909	.36869	10.801
#1	5.8690	.03543	.00082	3.6098	-.00066
#2	5.8610	.03531	.00100	3.6287	-.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00244**	**3.0724**	**.00100**	**.00220**	**6.0736**
Stddev	.00103	.0072	.00041	.00186	.0291
%RSD	42.032	.23557	41.381	84.579	.47876
#1	.00316	3.0672	.00070	.00088	6.0530
#2	.00171	3.0775	.00129	.00352	6.0941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**.09085**	**.00025**	**.00079**	**-.00011**
Stddev	.00040	.00062	.00012	.00050	.00035
%RSD	81.115	.68576	45.917	63.955	321.42
#1	.00021	.09041	.00033	.00114	-.00036
#2	.00079	.09129	.00017	.00043	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123283-d-3-b Acquired: 8/29/2017 18:37:45 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00654**
Stddev	.00041
%RSD	6.2003
#1	.00683
#2	.00626
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4100.5**	**2745.3**	**21782.**	**4310.7**
Stddev	7.3	.6	19.	2.5
%RSD	.17908	.02175	.08581	.05882
#1	4095.3	2745.7	21769.	4312.5
#2	4105.7	2744.9	21795.	4308.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.246%	99.288%	98.870%	103.76%
Range				

Sample Name: 480-123283-d-4-b Acquired: 8/29/2017 18:41:20 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00074**	**-.04215**	**-.00019**	**.01159**	**.00376**
Stddev	.00012	.02006	.00138	.00036	.00002
%RSD	15.798	47.583	710.46	3.0696	.42646
#1	-.00066	-.02797	-.00117	.01133	.00377
#2	-.00083	-.05633	.00078	.01184	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**10.141**	**-.00008**	**-.0089**	**-.00026**
Stddev	.00000	.010	.00003	.0096	.00019
%RSD	1.1513	.09777	33.043	107.1	72.731
#1	-.00029	10.134	-.00009	-.0157	-.00040
#2	-.00028	10.148	-.00006	-.0022	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.00147**	**-.00662**	**2.0399**	**.00098**
Stddev	.00022	.00087	.00072	.0036	.00131
%RSD	33.665	59.301	10.864	.17797	133.76
#1	-.00051	.00208	-.00713	2.0425	.00005
#2	-.00082	.00085	-.00611	2.0374	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123283-d-4-b Acquired: 8/29/2017 18:41:20 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6904**	**.00304**	**-.00018**	**1.3807**	**-.00032**
Stddev	.0151	.00007	.00001	.0084	.00023
%RSD	.89338	2.1577	4.8860	.61222	72.296
#1	1.7011	.00309	-.00018	1.3747	-.00049
#2	1.6797	.00299	-.00017	1.3867	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**1.4616**	**-.00151**	**.00058**	**2.3795**
Stddev	.00014	.0049	.00105	.00433	.0086
%RSD	18.726	.33756	69.788	747.96	.36302
#1	.00082	1.4651	-.00225	.00364	2.3734
#2	.00063	1.4582	-.00076	-.00248	2.3856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00064**	**.04024**	**.00003**	**-.00087**	**-.00015**
Stddev	.00011	.00002	.00012	.00130	.00020
%RSD	17.175	.03762	426.69	149.41	128.82
#1	-.00072	.04023	.00011	-.00179	-.00029
#2	-.00056	.04025	-.00006	.00005	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123283-d-4-b Acquired: 8/29/2017 18:41:20 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00188
Stddev	.00040
%RSD	21.054
#1	.00216
#2	.00160
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4216.9	2757.2	21910.	4315.3
Stddev	5.0	5.5	116.	26.3
%RSD	.11940	.19806	.52965	.60850
#1	4220.4	2761.0	21828.	4333.9
#2	4213.3	2753.3	21992.	4296.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.979%	99.718%	99.449%	103.87%
Range				

Sample Name: 190-14287-c-2-d Acquired: 8/29/2017 18:44:58 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00120**	**-.02052**	**-.00056**	**.07691**	**.03385**
Stddev	.00074	.00161	.00242	.00013	.00119
%RSD	61.627	7.8275	432.10	.16684	3.5229
#1	-.00172	-.01939	.00115	.07682	.03469
#2	-.00067	-.02166	-.00227	.07700	.03300
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**139.67**	**-.00003**	**-.0040**	**-.00032**
Stddev	.00002	.61	.00015	.0240	.00006
%RSD	8.7847	.43986	592.31	604.9	18.184
#1	-.00028	140.11	-.00013	-.0209	-.00028
#2	-.00024	139.24	.00008	.0130	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**-.00056**	**.03531**	**4.8175**	**-.00272**
Stddev	.00025	.00001	.00271	.0346	.00129
%RSD	76.722	1.8945	7.6830	.71736	47.262
#1	.00015	-.00055	.03339	4.8419	-.00181
#2	.00051	-.00057	.03723	4.7930	-.00363
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-c-2-d Acquired: 8/29/2017 18:44:58 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.350**	**.04072**	**-.00002**	**172.94**	**.00017**
Stddev	.602	.00162	.00022	.83	.00019
%RSD	3.9214	3.9849	1010.4	.47738	112.72
#1	15.775	.04186	.00014	173.52	.00030
#2	14.924	.03957	-.00018	172.35	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00239**	**4.7318**	**-.00175**	**-.00223**	**5.0157**
Stddev	.00036	.0033	.00145	.00619	.0039
%RSD	14.906	.07015	82.853	278.10	.07755
#1	.00213	4.7295	-.00278	.00215	5.0184
#2	.00264	4.7342	-.00073	-.00660	5.0129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**1.3883**	**.00000**	**-.00040**	**.00011**
Stddev	.00069	.0060	.00016	.00079	.00017
%RSD	2457.0	.42882	5629.2	197.58	160.80
#1	-.00052	1.3925	-.00011	-.00096	-.00001
#2	.00046	1.3841	.00011	.00016	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-c-2-d Acquired: 8/29/2017 18:44:58 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00756
Stddev	.00036
%RSD	4.7455
#1	.00781
#2	.00730
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3552.1	2576.6	19876.	4238.4
Stddev	5.0	.4	700.	11.6
%RSD	.13995	.01574	3.5214	.27305
#1	3548.6	2576.3	19381.	4230.2
#2	3555.6	2576.8	20370.	4246.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.375%	93.185%	90.215%	102.02%
Range				

Sample Name: CCV-4198708 Acquired: 8/29/2017 18:48:34 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51689**	**23.934**	**.49535**	**.50502**	**.50069**
Stddev	.00462	.101	.00078	.00196	.00179
%RSD	.89300	.42348	.15658	.38818	.35683
#1	.51363	24.005	.49590	.50363	.49943
#2	.52016	23.862	.49480	.50641	.50195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50126**	**24.436**	**.50036**	**-.0347**	**.48330**
Stddev	.00206	.122	.00082	.0030	.00092
%RSD	.41069	.49800	.16290	8.640	.18974
#1	.50272	24.522	.49979	-.0369	.48265
#2	.49981	24.350	.50094	-.0326	.48395
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51384**	**.52110**	**23.964**	**25.045**	**.49778**
Stddev	.00330	.00065	.108	.130	.00245
%RSD	.64178	.12467	.44930	.51762	.49261
#1	.51151	.52064	24.040	25.137	.49951
#2	.51617	.52156	23.888	24.954	.49604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 18:48:34 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.061**	**.51230**	**.48573**	**25.034**	**.49029**
Stddev	.060	.00140	.00043	.088	.00073
%RSD	.24118	.27238	.08860	.35323	.14831
#1	25.018	.51132	.48604	25.097	.48978
#2	25.103	.51329	.48543	24.972	.49081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48699**	**25.201**	**.49966**	**.49585**	**23.871**
Stddev	.00124	.039	.00101	.00023	.130
%RSD	.25486	.15406	.20291	.04606	.54273
#1	.48786	25.173	.50037	.49568	23.963
#2	.48611	25.228	.49894	.49601	23.779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50287**	**.49418**	**.48779**	**.49288**	**.49488**
Stddev	.00157	.00286	.00242	.00094	.00306
%RSD	.31230	.57952	.49671	.19000	.61879
#1	.50398	.49621	.48607	.49221	.49272
#2	.50176	.49216	.48950	.49354	.49705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 18:48:34 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.49502**
Stddev	.00149
%RSD	.30049
#1	.49397
#2	.49607
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3853.6**	**2722.5**	**21295.**	**4243.5**
Stddev	5.6	7.2	99.	7.9
%RSD	.14587	.26454	.46646	.18629
#1	3857.5	2727.6	21365.	4237.9
#2	3849.6	2717.4	21224.	4249.1

Sample Name: CCB-4204839 Acquired: 8/29/2017 18:51:57 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00046**	**-.04831**	**-.00240**	**-.00029**	**-.00020**
Stddev	.00037	.00997	.00152	.00027	.00002
%RSD	80.486	20.635	63.330	95.024	7.6514
#1	-.00020	-.04126	-.00348	-.00048	-.00019
#2	-.00072	-.05535	-.00133	-.00009	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00386**	**-.00006**	**-.0124**	**-.00026**
Stddev	.00004	.00042	.00004	.0079	.00018
%RSD	22.643	10.953	70.448	63.90	71.064
#1	-.00015	.00416	-.00003	-.0179	-.00013
#2	-.00021	.00356	-.00009	-.0068	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.00060**	**-.00998**	**-.04451**	**-.00146**
Stddev	.00044	.00087	.00151	.03025	.00094
%RSD	336.34	144.83	15.174	67.971	64.513
#1	.00044	.00122	-.01105	-.02311	-.00213
#2	-.00018	-.00001	-.00891	-.06590	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 18:51:57 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00768**	**-.00018**	**-.00026**	**.01560**	**-.00022**
Stddev	.00558	.00008	.00030	.00220	.00016
%RSD	72.688	44.767	117.12	14.127	75.317
#1	-.01162	-.00012	-.00004	.01716	-.00010
#2	-.00373	-.00024	-.00047	.01404	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**-.00582**	**.00150**	**-.00181**	**-.01769**
Stddev	.00114	.00268	.00246	.00029	.00490
%RSD	185.68	45.951	163.93	15.964	27.705
#1	.00142	-.00393	-.00024	-.00202	-.01422
#2	-.00019	-.00772	.00324	-.00161	-.02115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00018**	**.00034**	**.00037**	**.00004**
Stddev	.00004	.00001	.00028	.00003	.00007
%RSD	32.601	6.5114	80.708	8.3441	193.71
#1	.00015	-.00019	.00054	.00039	.00009
#2	.00010	-.00017	.00015	.00035	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 18:51:57 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00009**
Stddev	.00031
%RSD	341.91
#1	.00013
#2	-.00031
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4293.0**	**2767.1**	**22086.**	**4244.6**
Stddev	6.8	3.8	35.	4.2
%RSD	.15816	.13664	.15738	.09927
#1	4297.8	2769.8	22062.	4247.6
#2	4288.2	2764.4	22111.	4241.6

Sample Name: CCVL-4195955 Acquired: 8/29/2017 18:55:36 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00559**	**.17025**	**.01318**	**.01945**	**.00191**
Stddev	.00023	.00223	.00047	.00000	.00002
%RSD	4.0714	1.3070	3.5388	.01227	.95911
#1	.00543	.17182	.01285	.01945	.00192
#2	.00575	.16868	.01351	.01945	.00190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00181**	**.49851**	**.00206**	**.0087**	**.00347**
Stddev	.00006	.00217	.00005	.0055	.00021
%RSD	3.4837	.43596	2.5695	62.95	5.9753
#1	.00185	.49698	.00210	.0048	.00361
#2	.00176	.50005	.00202	.0126	.00332
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00437**	**.01037**	**.03758**	**.47291**	**.02796**
Stddev	.00024	.00045	.00117	.02916	.00031
%RSD	5.3972	4.3218	3.1144	6.1661	1.1245
#1	.00420	.01005	.03675	.49353	.02773
#2	.00454	.01068	.03841	.45229	.02818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 18:55:36 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19530**	**.00296**	**.00940**	**1.0031**	**.00894**
Stddev	.00234	.00003	.00013	.0173	.00026
%RSD	1.1979	1.1418	1.3998	1.7235	2.9514
#1	.19364	.00298	.00950	.99092	.00913
#2	.19695	.00294	.00931	1.0154	.00876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00968**	**.19299**	**.02045**	**.02174**	**.48303**
Stddev	.00004	.00164	.00035	.00185	.00364
%RSD	.42324	.84931	1.6963	8.4968	.75373
#1	.00971	.19415	.02070	.02305	.48560
#2	.00965	.19183	.02021	.02044	.48046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00928**	**.00483**	**.00488**	**.01832**	**.00490**
Stddev	.00053	.00006	.00021	.00062	.00025
%RSD	5.7613	1.2548	4.3371	3.3770	5.1715
#1	.00890	.00479	.00503	.01876	.00472
#2	.00966	.00488	.00473	.01788	.00508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 18:55:36 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01078
Stddev	.00005
%RSD	.49683
#1	.01082
#2	.01074
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4254.9	2766.8	22017.	4237.1
Stddev	3.4	1.2	38.	13.5
%RSD	.08008	.04313	.17121	.31852
#1	4252.5	2766.0	21990.	4246.6
#2	4257.3	2767.7	22043.	4227.5

Sample Name: 190-14287-c-3-d Acquired: 8/29/2017 18:59:13 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00087**	**-.01093**	**.01355**	**.30288**	**.26368**
Stddev	.00075	.01919	.00010	.00164	.00079
%RSD	85.575	175.55	.74678	.54129	.30126
#1	-.00140	.00264	.01362	.30172	.26425
#2	-.00035	-.02450	.01348	.30404	.26312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**140.89**	**.00005**	**.0073**	**-.00062**
Stddev	.00004	.14	.00020	.0263	.00011
%RSD	16.242	.09863	378.23	360.9	17.866
#1	-.00023	140.99	.00019	-.0113	-.00054
#2	-.00029	140.79	-.00009	.0259	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**-.00030**	**2.5836**	**2.3352**	**-.00156**
Stddev	.00015	.00078	.0150	.0550	.00091
%RSD	45.291	260.75	.58124	2.3570	58.543
#1	-.00022	-.00085	2.5730	2.2963	-.00220
#2	-.00044	.00025	2.5942	2.3741	-.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-c-3-d Acquired: 8/29/2017 18:59:13 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.936**	**.23339**	**.00147**	**200.38**	**.00076**
Stddev	.119	.00114	.00013	.03	.00023
%RSD	.38312	.48749	8.7347	.01478	30.965
#1	31.020	.23419	.00156	200.36	.00092
#2	30.852	.23258	.00138	200.40	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	**21.993**	**-.00105**	**-.00554**	**7.6824**
Stddev	.00151	.054	.00109	.00138	.0234
%RSD	87.482	.24406	103.73	25.013	.30447
#1	.00066	21.955	-.00181	-.00456	7.6989
#2	.00279	22.030	-.00028	-.00652	7.6658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.27331**	**.00015**	**-.00044**	**-.00049**
Stddev	.00033	.00022	.00033	.00059	.00017
%RSD	857.15	.07986	225.65	134.37	34.760
#1	.00019	.27346	-.00009	-.00086	-.00061
#2	-.00027	.27315	.00038	-.00002	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14287-c-3-d Acquired: 8/29/2017 18:59:13 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**1.2149**
Stddev	.0126
%RSD	1.0366
#1	1.2238
#2	1.2060
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3526.4**	**2569.2**	**20186.**	**4212.0**
Stddev	2.2	.0	103.	6.5
%RSD	.06295	.00018	.51134	.15319
#1	3524.8	2569.2	20113.	4207.5
#2	3528.0	2569.2	20259.	4216.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.771%	92.918%	91.625%	101.38%
Range				

Sample Name: 480-123091-a-12-c Acquired: 8/29/2017 19:02:46 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00102**	**-.00802**	**.06945**	**.00139**	**.00068**
Stddev	.00025	.01398	.00007	.00044	.00001
%RSD	24.128	174.30	.10013	31.614	1.5156
#1	-.00119	-.01791	.06949	.00108	.00067
#2	-.00084	.00187	.06940	.00171	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.62227**	**-.00034**	**-.0045**	**.00016**
Stddev	.00010	.00343	.00004	.0209	.00005
%RSD	36.978	.55085	13.218	461.5	33.090
#1	-.00035	.62470	-.00031	.0102	.00012
#2	-.00020	.61985	-.00037	-.0193	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00121**	**.00644**	**.85917**	**.05348**	**.02604**
Stddev	.00030	.00004	.00456	.01122	.00128
%RSD	25.275	.58400	.53041	20.971	4.9156
#1	.00099	.00642	.85595	.04555	.02513
#2	.00142	.00647	.86239	.06142	.02694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123091-a-12-c Acquired: 8/29/2017 19:02:46 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04638**	**.01192**	**-.00195**	**.94655**	**.00230**
Stddev	.00508	.00013	.00004	.00654	.00000
%RSD	10.952	1.0718	1.9753	.69091	.21609
#1	.04279	.01201	-.00192	.94192	.00230
#2	.04997	.01183	-.00197	.95117	.00230
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**2.4944**	**.01244**	**.16715**	**.01960**
Stddev	.00007	.0003	.00147	.00143	.00439
%RSD	26.329	.01217	11.838	.85772	22.418
#1	.00022	2.4946	.01348	.16816	.01649
#2	.00032	2.4942	.01140	.16614	.02270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08452**	**.00201**	**.00077**	F **-.04718**	**-.00017**
Stddev	.00067	.00001	.00026	.00040	.00024
%RSD	.79131	.62318	34.226	.85752	140.72
#1	.08500	.00202	.00059	-.04690	-.00034
#2	.08405	.00200	.00096	-.04747	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				18.000	
Low Limit				-.02000	

Sample Name: 480-123091-a-12-c Acquired: 8/29/2017 19:02:46 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.68509
Stddev	.00389
%RSD	.56746
#1	.68783
#2	.68234
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4615.9	2668.3	22044.	4654.8
Stddev	6.5	.5	4.	23.0
%RSD	.14024	.01842	.01592	.49374
#1	4611.3	2668.0	22041.	4671.1
#2	4620.5	2668.6	22046.	4638.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	108.34%	96.503%	100.06%	112.04%
Range				

Sample Name: 480-123314-b-1-a Acquired: 8/29/2017 19:06:22 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00041**	**.37845**	**.00146**	**.29125**	**.02193**
Stddev	.00040	.01119	.00046	.00021	.00002
%RSD	97.492	2.9579	31.330	.07088	.10478
#1	-.00013	.37054	.00178	.29139	.02195
#2	-.00069	.38637	.00113	.29110	.02192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**21.874**	**.00005**	**.0029**	**.00000**
Stddev	.00005	.181	.00016	.0035	.00014
%RSD	29.742	.82639	343.78	120.3	3021.6
#1	-.00021	22.002	-.00006	.0053	.00010
#2	-.00014	21.747	.00015	.0004	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00712**	**.01772**	**.41483**	**3.1651**	**.02137**
Stddev	.00028	.00014	.00095	.0374	.00209
%RSD	3.9700	.80387	.23008	1.1834	9.7613
#1	.00732	.01762	.41416	3.1915	.01990
#2	.00692	.01783	.41551	3.1386	.02285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123314-b-1-a Acquired: 8/29/2017 19:06:22 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.894**	**.03063**	**.00251**	**118.46**	**.01591**
Stddev	.062	.00023	.00019	.48	.00018
%RSD	.23068	.76120	7.4538	.40279	1.1000
#1	26.937	.03079	.00238	118.80	.01604
#2	26.850	.03046	.00265	118.12	.01579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00241**	**42.241**	**.00002**	**.00068**	**5.4023**
Stddev	.00051	.084	.00183	.00115	.0564
%RSD	21.053	.19956	8374.6	169.37	1.0436
#1	.00205	42.300	-.00127	-.00013	5.4422
#2	.00276	42.181	.00131	.00150	5.3624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00689**	**.69411**	**.01079**	**.00116**	**.00097**
Stddev	.00000	.00739	.00017	.00151	.00035
%RSD	.04298	1.0642	1.5956	129.68	35.650
#1	.00690	.69934	.01091	.00223	.00122
#2	.00689	.68889	.01067	.00010	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123314-b-1-a Acquired: 8/29/2017 19:06:22 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00452
Stddev	.00024
%RSD	5.2779
#1	.00469
#2	.00435
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3770.5	2669.3	20880.	4238.6
Stddev	3.9	4.5	45.	35.7
%RSD	.10421	.16803	.21586	.84181
#1	3767.7	2666.1	20848.	4213.4
#2	3773.2	2672.5	20912.	4263.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.500%	96.539%	94.776%	102.02%
Range				

Sample Name: 190-14286-d-1-b Acquired: 8/29/2017 19:09:57 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00329**	**.02787**	**1.1421**	**.73838**
Stddev	.00097	.00311	.00322	.0015	.00149
%RSD	337.81	94.462	11.568	.13438	.20207
#1	.00098	.00109	.02559	1.1432	.73943
#2	-.00040	.00549	.03015	1.1410	.73732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**169.99**	**.00017**	**.0175**	**.00164**
Stddev	.00000	1.84	.00015	.0339	.00017
%RSD	1.2517	1.0834	87.445	193.9	10.326
#1	-.00032	171.29	.00028	-.0065	.00176
#2	-.00031	168.68	.00007	.0415	.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**-.00029**	**15.680**	**38.873**	**.04785**
Stddev	.00043	.00020	.148	.192	.00006
%RSD	54.704	67.755	.94678	.49373	.12679
#1	.00049	-.00015	15.785	39.009	.04781
#2	.00110	-.00043	15.575	38.738	.04789
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14286-d-1-b Acquired: 8/29/2017 19:09:57 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**62.951**	**.16730**	**.00478**	**316.21**	**.02006**
Stddev	.250	.00044	.00015	1.70	.00015
%RSD	.39688	.26550	3.1817	.53625	.76682
#1	62.774	.16699	.00467	317.41	.01995
#2	63.128	.16762	.00489	315.01	.02017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00244**	**5.1912**	**-.00058**	**-.00171**	**12.687**
Stddev	.00140	.0058	.00100	.00097	.201
%RSD	57.271	.11146	171.25	56.495	1.5842
#1	.00145	5.1953	.00012	-.00239	12.829
#2	.00343	5.1871	-.00129	-.00103	12.545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**1.0913**	**.00081**	**.00067**	**.00093**
Stddev	.00025	.0072	.00001	.00073	.00015
%RSD	178.78	.65703	.69893	110.20	15.748
#1	-.00004	1.0964	.00080	.00015	.00082
#2	.00031	1.0862	.00081	.00118	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14286-d-1-b Acquired: 8/29/2017 19:09:57 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00471**
Stddev	.00053
%RSD	11.256
#1	.00509
#2	.00434
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3360.9**	**2518.3**	**19692.**	**4176.8**
Stddev	1.5	4.7	25.	46.3
%RSD	.04385	.18509	.12570	1.1095
#1	3359.8	2515.0	19675.	4144.1
#2	3361.9	2521.6	19710.	4209.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.886%	91.079%	89.383%	100.54%
Range				

Sample Name: 190-14286-d-2-b Acquired: 8/29/2017 19:13:41 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.00296**	**.02878**	**8.1325**	**.89267**
Stddev	.00011	.00488	.00061	.0088	.00099
%RSD	51.984	164.91	2.1101	.10800	.11127
#1	-.00029	.00641	.02920	8.1263	.89338
#2	-.00013	-.00049	.02835	8.1387	.89197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**151.36**	**.00074**	**-.0192**	**.01959**
Stddev	.00011	.08	.00008	.0059	.00005
%RSD	48.885	.05004	10.587	30.56	.25362
#1	-.00015	151.42	.00079	-.0150	.01962
#2	-.00031	151.31	.00068	-.0233	.01955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00851**	**-.00085**	**4.1580**	**159.61**	**.19328**
Stddev	.00042	.00033	.0094	.01	.00235
%RSD	4.9810	39.473	.22492	.00503	1.2144
#1	.00821	-.00108	4.1647	159.60	.19162
#2	.00881	-.00061	4.1514	159.62	.19494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14286-d-2-b Acquired: 8/29/2017 19:13:41 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**143.92**	**.17026**	**.00425**	**1144.8**	**.13723**
Stddev	.01	.00000	.00016	.5	.00012
%RSD	.00819	.00089	3.7505	.04649	.08869
#1	143.93	.17026	.00437	1144.4	.13714
#2	143.91	.17026	.00414	1145.1	.13731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00325**	**8.0965**	**-.00129**	**.00098**	**17.432**
Stddev	.00087	.0028	.00175	.00066	.009
%RSD	26.888	.03482	135.33	68.154	.05205
#1	.00386	8.0985	-.00253	.00145	17.426
#2	.00263	8.0945	-.00006	.00051	17.439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**2.6526**	**.00481**	**-.00254**	**.00494**
Stddev	.00030	.0005	.00014	.00005	.00050
%RSD	133.97	.01962	2.9408	1.9896	10.102
#1	.00001	2.6523	.00471	-.00258	.00529
#2	.00044	2.6530	.00491	-.00251	.00459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 190-14286-d-2-b Acquired: 8/29/2017 19:13:41 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00368
Stddev	.00053
%RSD	14.404
#1	.00331
#2	.00406
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3042.8	2403.3	18603.	4181.6
Stddev	.7	.1	55.	34.9
%RSD	.02146	.00415	.29398	.83565
#1	3042.3	2403.2	18642.	4206.4
#2	3043.2	2403.3	18564.	4156.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.420%	86.917%	84.439%	100.65%
Range				

Sample Name: 480-123253-d-1-c Acquired: 8/29/2017 19:17:26 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**-.01952**	**.00476**	**2.1633**	**.41936**
Stddev	.00042	.01389	.00070	.0002	.00149
%RSD	65.815	71.162	14.593	.00894	.35427
#1	-.00093	-.02934	.00526	2.1635	.42041
#2	-.00034	-.00970	.00427	2.1632	.41831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**107.61**	**.00018**	**-.0223**	**.00340**
Stddev	.00001	.40	.00005	.0222	.00017
%RSD	5.3203	.36816	26.822	99.37	4.8885
#1	-.00026	107.33	.00015	-.0066	.00352
#2	-.00028	107.89	.00022	-.0380	.00329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**.00081**	**9.1197**	**108.02**	**.01167**
Stddev	.00006	.00022	.0124	.03	.00131
%RSD	3.1665	26.606	.13541	.02357	11.240
#1	.00187	.00097	9.1110	108.00	.01259
#2	.00196	.00066	9.1285	108.03	.01074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123253-d-1-c Acquired: 8/29/2017 19:17:26 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**58.772**	**.52762**	**-.00027**	**437.99**	**.01617**
Stddev	.046	.00023	.00011	.95	.00045
%RSD	.07771	.04425	39.232	.21767	2.7863
#1	58.739	.52778	-.00034	438.66	.01648
#2	58.804	.52745	-.00019	437.31	.01585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00266**	**11.824**	**-.00224**	**-.00034**	**8.7475**
Stddev	.00072	.005	.00162	.00070	.0777
%RSD	26.923	.03992	72.084	204.75	.88822
#1	.00215	11.821	-.00110	.00015	8.6925
#2	.00317	11.827	-.00339	-.00084	8.8024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.48514**	**.00046**	**-.00056**	**-.00015**
Stddev	.00015	.00189	.00027	.00021	.00033
%RSD	7.3760	.38881	58.626	37.363	223.33
#1	.00213	.48381	.00065	-.00071	-.00038
#2	.00192	.48647	.00027	-.00042	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123253-d-1-c Acquired: 8/29/2017 19:17:26 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.00429
Stddev	.00045
%RSD	10.565
#1	.00397
#2	.00461
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3332.1	2520.3	19674.	4238.7
Stddev	3.9	2.4	53.	.3
%RSD	.11806	.09543	.26980	.00741
#1	3329.3	2522.0	19711.	4238.9
#2	3334.9	2518.6	19636.	4238.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.211%	91.152%	89.299%	102.03%
Range				

Sample Name: 480-123272-d-1-b Acquired: 8/29/2017 19:21:05 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.08597**	**.03430**	**12.955**	**.51508**
Stddev	.00050	.02156	.00110	.007	.00057
%RSD	125.73	25.072	3.2157	.05443	.11148
#1	-.00075	.07073	.03508	12.950	.51467
#2	-.00004	.10121	.03352	12.960	.51548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**231.68**	**.00016**	**-.0392**	**.04674**
Stddev	.00003	.04	.00028	.0347	.00010
%RSD	9.0225	.01544	178.13	88.52	.21298
#1	-.00029	231.65	.00035	-.0637	.04667
#2	-.00032	231.70	-.00004	-.0147	.04681
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06015**	**-.00224**	**24.413**	**463.80**	**.73077**
Stddev	.00045	.00138	.057	1.89	.00495
%RSD	.75404	61.451	.23193	.40728	.67800
#1	.06047	-.00322	24.373	462.47	.72727
#2	.05983	-.00127	24.453	465.14	.73428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123272-d-1-b Acquired: 8/29/2017 19:21:05 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**109.80**	**1.9200**	**.00537**	**1476.3**	**.29642**
Stddev	.40	.0007	.00020	5.3	.00033
%RSD	.36844	.03870	3.7311	.35735	.11271
#1	109.52	1.9195	.00551	1472.6	.29618
#2	110.09	1.9205	.00523	1480.0	.29665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00568**	**29.408**	**.00099**	**.00012**	**17.452**
Stddev	.00022	.002	.00049	.00454	.037
%RSD	3.9428	.00848	50.062	3654.6	.21142
#1	.00552	29.409	.00134	-.00308	17.425
#2	.00584	29.406	.00064	.00333	17.478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00504**	**1.0357**	**.07668**	**-.00033**	**.02255**
Stddev	.00073	.0022	.00076	.00298	.00079
%RSD	14.440	.21543	.99526	892.36	3.4960
#1	.00453	1.0341	.07722	-.00244	.02310
#2	.00556	1.0373	.07615	.00177	.02199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123272-d-1-b Acquired: 8/29/2017 19:21:05 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.03988
Stddev	.00035
%RSD	.88537
#1	.03963
#2	.04013
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2930.6	2369.1	18174.	4134.5
Stddev	1.1	.2	22.	3.1
%RSD	.03911	.00895	.12258	.07382
#1	2931.4	2369.0	18190.	4132.4
#2	2929.7	2369.3	18159.	4136.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	68.786%	85.683%	82.493%	99.519%
Range				

Sample Name: 480-123172-b-2-b Acquired: 8/29/2017 19:24:41 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**.24860**	**.08890**	**9.8519**	**.86711**
Stddev	.00053	.00910	.00074	.0144	.00311
%RSD	46.472	3.6618	.83195	.14568	.35922
#1	-.00150	.25503	.08838	9.8621	.86491
#2	-.00076	.24216	.08942	9.8418	.86932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**53.863**	**.00059**	**-.0055**	**.04495**
Stddev	.00002	.311	.00007	.0051	.00009
%RSD	5.5361	.57824	11.318	91.53	.20414
#1	-.00035	53.643	.00054	-.0091	.04501
#2	-.00032	54.083	.00064	-.0020	.04488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25645**	**.00654**	**4.9240**	F **609.31**	**.19096**
Stddev	.00041	.00010	.0090	3.36	.00356
%RSD	.16178	1.5690	.18342	.55079	1.8650
#1	.25615	.00647	4.9177	606.94	.18844
#2	.25674	.00661	4.9304	611.69	.19348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				540.00	
Low Limit				-.50000	

Sample Name: 480-123172-b-2-b Acquired: 8/29/2017 19:24:41 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**126.51**	**.13892**	**.01099**	**1987.1**	**.38525**
Stddev	.14	.00003	.00027	11.1	.00043
%RSD	.11354	.01953	2.4326	.55716	.11101
#1	126.41	.13890	.01118	1979.3	.38494
#2	126.61	.13894	.01081	1995.0	.38555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00969**	**46.028**	**.01850**	**.00798**	**27.360**
Stddev	.00013	.100	.00100	.00212	.184
%RSD	1.3383	.21760	5.3952	26.609	.67190
#1	.00978	46.099	.01779	.00648	27.230
#2	.00959	45.958	.01920	.00948	27.490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04030**	**.54274**	**.23880**	**-.00184**	**.08309**
Stddev	.00074	.00303	.00105	.00097	.00085
%RSD	1.8313	.55815	.43868	52.857	1.0272
#1	.03978	.54059	.23806	-.00115	.08369
#2	.04082	.54488	.23954	-.00253	.08249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-123172-b-2-b Acquired: 8/29/2017 19:24:41 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	.41161
Stddev	.00018
%RSD	.04328
#1	.41148
#2	.41173
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2882.0	2336.1	17644.	4086.4
Stddev	.4	5.3	46.	36.4
%RSD	.01390	.22712	.25794	.89149
#1	2881.7	2332.3	17676.	4112.1
#2	2882.2	2339.9	17612.	4060.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.645%	84.489%	80.085%	98.359%
Range				

Sample Name: BLANK Acquired: 8/29/2017 19:28:24 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00121**	**-.03893**	**-.00146**	**.02146**	**-.00014**
Stddev	.00009	.01359	.00018	.00202	.00002
%RSD	7.2584	34.918	12.211	9.4293	16.267
#1	-.00114	-.04855	-.00133	.02289	-.00012
#2	-.00127	-.02932	-.00158	.02003	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.00358**	**-.00013**	**-.0088**	**-.00036**
Stddev	.00001	.00358	.00008	.0144	.00000
%RSD	4.6273	100.08	61.732	164.1	1.1852
#1	-.00027	.00611	-.00019	-.0189	-.00036
#2	-.00029	.00105	-.00008	.0014	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00056**	**-.01012**	**.27226**	**-.00270**
Stddev	.00012	.00063	.00032	.00729	.00039
%RSD	274.74	113.43	3.2048	2.6771	14.412
#1	-.00013	.00011	-.00989	.27741	-.00243
#2	.00004	.00100	-.01035	.26711	-.00298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/29/2017 19:28:24 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00512**	**-.00012**	**-.00040**	**.31933**	**-.00023**
Stddev	.00283	.00009	.00014	.01180	.00044
%RSD	55.331	77.464	34.351	3.6950	187.49
#1	.00712	-.00018	-.00031	.32767	.00008
#2	.00311	-.00005	-.00050	.31099	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**-.00009**	**-.00031**	**-.00035**	**.06112**
Stddev	.00067	.00219	.00040	.00108	.00709
%RSD	134.76	2526.1	129.05	305.19	11.605
#1	-.00002	.00146	-.00003	-.00112	.06614
#2	-.00097	-.00163	-.00059	.00041	.05610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00014**	**.00027**	**.00051**	**-.00006**
Stddev	.00017	.00010	.00019	.00050	.00014
%RSD	192.95	71.201	71.361	98.953	218.62
#1	.00003	-.00007	.00041	.00015	-.00017
#2	-.00021	-.00022	.00013	.00087	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: BLANK Acquired: 8/29/2017 19:28:24 Type: Unk
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
IS Ref	(Y_3600)
Units	ppm
Avg	**.00035**
Stddev	.00000
%RSD	.94675
#1	.00035
#2	.00035
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4297.0**	**2780.0**	**22162.**	**4242.1**
Stddev	3.6	.7	50.	1.9
%RSD	.08391	.02367	.22428	.04550
#1	4294.5	2780.5	22127.	4240.7
#2	4299.6	2779.5	22197.	4243.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.86%	100.54%	100.59%	102.11%
Range				

Sample Name: CCV-4198708 Acquired: 8/29/2017 19:32:04 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52059**	**23.938**	**.49677**	**.51793**	**.49402**
Stddev	.00482	.004	.00297	.00049	.00104
%RSD	.92620	.01467	.59700	.09534	.21000
#1	.51718	23.940	.49887	.51758	.49475
#2	.52400	23.935	.49468	.51828	.49328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50125**	**24.460**	**.50055**	**-.0167**	**.48428**
Stddev	.00037	.014	.00161	.0274	.00026
%RSD	.07391	.05925	.32200	164.3	.05309
#1	.50099	24.470	.49941	-.0361	.48410
#2	.50151	24.450	.50169	.0027	.48446
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51326**	**.51535**	**23.891**	**25.208**	**.49842**
Stddev	.00829	.00378	.006	.004	.00291
%RSD	1.6155	.73361	.02716	.01495	.58414
#1	.50740	.51268	23.887	25.205	.50048
#2	.51913	.51803	23.896	25.210	.49636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 19:32:04 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**24.977**	**.51126**	**.48661**	**25.188**	**.49160**
Stddev	.308	.00549	.00071	.001	.00125
%RSD	1.2348	1.0734	.14491	.00209	.25506
#1	24.759	.50737	.48711	25.188	.49072
#2	25.196	.51514	.48611	25.187	.49249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48721**	**25.200**	**.49743**	**.49398**	**24.031**
Stddev	.00040	.032	.00118	.00003	.019
%RSD	.08220	.12870	.23656	.00528	.07720
#1	.48692	25.177	.49659	.49400	24.044
#2	.48749	25.223	.49826	.49396	24.018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50369**	**.49597**	**.48822**	**.49257**	**.50011**
Stddev	.00066	.00072	.00528	.00111	.00621
%RSD	.13099	.14570	1.0822	.22510	1.2419
#1	.50322	.49648	.48449	.49179	.49572
#2	.50415	.49546	.49196	.49336	.50450
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCV-4198708 Acquired: 8/29/2017 19:32:04 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**.49965**
Stddev	.01036
%RSD	2.0729
#1	.49232
#2	.50697
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3840.4**	**2712.2**	**21296.**	**4194.8**
Stddev	2.4	.6	162.	10.4
%RSD	.06357	.02075	.76064	.24896
#1	3842.1	2711.8	21410.	4202.2
#2	3838.6	2712.6	21181.	4187.5

Sample Name: CCB-4204839 Acquired: 8/29/2017 19:35:29 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00113**	**-.03577**	**-.00030**	**.00802**	**-.00019**
Stddev	.00025	.00479	.00149	.00045	.00000
%RSD	21.827	13.399	502.89	5.5956	2.4597
#1	-.00131	-.03238	-.00135	.00833	-.00019
#2	-.00096	-.03916	.00076	.00770	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**-.00206**	**-.00006**	**.0114**	**-.00022**
Stddev	.00007	.00151	.00002	.0373	.00009
%RSD	24.124	73.623	32.891	326.5	39.061
#1	-.00026	-.00099	-.00007	-.0149	-.00016
#2	-.00036	-.00313	-.00004	.0378	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00015**	**-.00911**	**.04643**	**-.00089**
Stddev	.00036	.00094	.00087	.03106	.00008
%RSD	214.13	626.06	9.5019	66.911	9.1573
#1	.00042	.00081	-.00850	.02446	-.00084
#2	-.00009	-.00051	-.00972	.06839	-.00095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 19:35:29 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00266**	**-.00011**	**-.00028**	**.10637**	**-.00029**
Stddev	.00117	.00001	.00013	.00309	.00009
%RSD	43.889	9.0108	44.381	2.9051	31.289
#1	-.00184	-.00010	-.00019	.10856	-.00036
#2	-.00349	-.00012	-.00037	.10419	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**-.00433**	**-.00085**	**-.00399**	**-.00719**
Stddev	.00040	.00144	.00068	.00159	.01493
%RSD	127.26	33.213	80.632	39.731	207.62
#1	.00060	-.00535	-.00133	-.00287	-.01775
#2	.00003	-.00331	-.00037	-.00511	.00337
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00022**	**.00094**	**-.00077**	**-.00035**
Stddev	.00000	.00011	.00022	.00053	.00080
%RSD	2.0059	49.678	23.506	68.368	232.10
#1	.00013	-.00014	.00079	-.00115	-.00091
#2	.00014	-.00030	.00110	-.00040	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: CCB-4204839 Acquired: 8/29/2017 19:35:29 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	**-.00011**
Stddev	.00016
%RSD	147.28
#1	-.00022
#2	.00000
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4288.1**	**2775.4**	**22079.**	**4229.1**
Stddev	3.9	4.0	37.	2.3
%RSD	.09145	.14469	.16924	.05423
#1	4285.3	2772.6	22105.	4230.7
#2	4290.8	2778.3	22053.	4227.5

Sample Name: CCVL-4195955 Acquired: 8/29/2017 19:39:09 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00464**	**.15698**	**.01322**	**.02521**	**.00195**
Stddev	.00081	.02999	.00036	.00034	.00001
%RSD	17.365	19.102	2.6967	1.3445	.44410
#1	.00521	.13578	.01348	.02497	.00194
#2	.00407	.17818	.01297	.02545	.00195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00181**	**.48728**	**.00200**	**.0147**	**.00357**
Stddev	.00006	.00941	.00007	.0165	.00020
%RSD	3.1544	1.9308	3.6123	112.4	5.4919
#1	.00177	.48063	.00195	.0030	.00343
#2	.00186	.49393	.00205	.0263	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value					
Range					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00394**	**.01089**	**.03627**	**.58669**	**.03051**
Stddev	.00049	.00045	.00159	.00298	.00174
%RSD	12.410	4.1473	4.3705	.50853	5.7056
#1	.00428	.01057	.03739	.58458	.03174
#2	.00359	.01121	.03515	.58880	.02928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 19:39:09 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}	202.030 {467}	589.592 { 57}	231.604 {446}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19677**	**.00284**	**.00944**	**1.0760**	**.00876**
Stddev	.00394	.00015	.00010	.0029	.00032
%RSD	1.9999	5.1409	1.0935	.26888	3.6479
#1	.19399	.00273	.00936	1.0781	.00899
#2	.19956	.00294	.00951	1.0740	.00854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

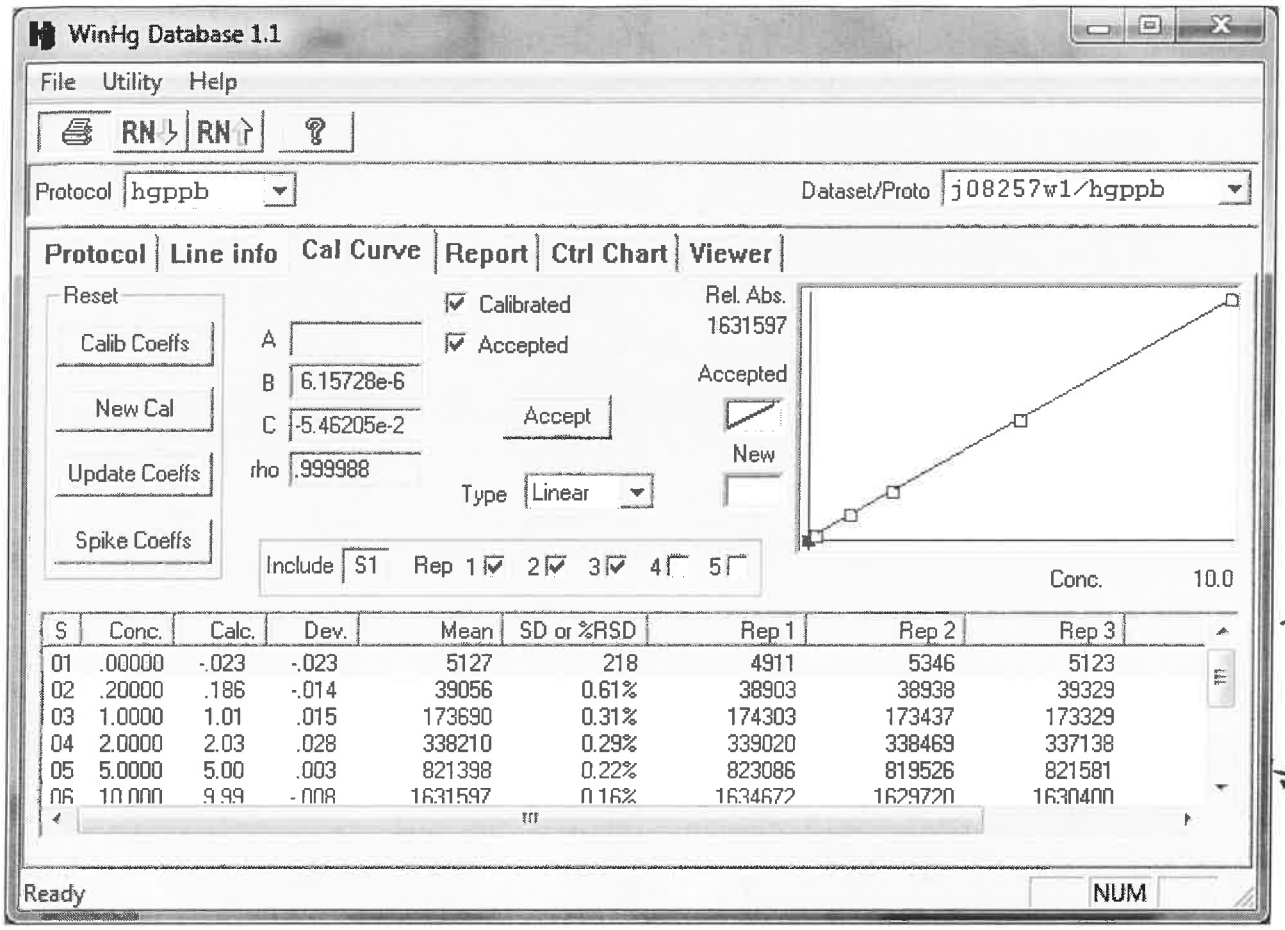
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00994**	**.18624**	**.01982**	**.02407**	**.47764**
Stddev	.00050	.00003	.00021	.00032	.00645
%RSD	5.0725	.01671	1.0746	1.3458	1.3504
#1	.01029	.18622	.01967	.02385	.48220
#2	.00958	.18626	.01997	.02430	.47308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00919**	**.00482**	**.00502**	**.02033**	**.00466**
Stddev	.00035	.00009	.00046	.00152	.00018
%RSD	3.8239	1.8075	9.1837	7.4629	3.8060
#1	.00944	.00476	.00470	.01925	.00478
#2	.00894	.00488	.00535	.02140	.00453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					
Range					

Sample Name: CCVL-4195955 Acquired: 8/29/2017 19:39:09 Type: QC
Method: ICAP2 June 2017(v96) Mode: CONC Corr. Factor: 1.000000
User: jrk Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Line	206.200 {163}
Units	ppm
Avg	.01023
Stddev	.00003
%RSD	.32588
#1	.01021
#2	.01026
Check ?	Chk Pass
Value	
Range	

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4255.0	2766.5	21967.	4229.5
Stddev	10.7	9.9	150.	3.5
%RSD	.25045	.35705	.68501	.08207
#1	4247.4	2759.5	22073.	4227.0
#2	4262.5	2773.5	21860.	4232.0



L3
8/25/17
4209931

cal: J08257c1

Run: J08257w1

Batches: 373942
373943
373947

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 2 Ck2ICV Seq: 1 14:18:45 25 Aug 17 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 97.1 2.91 3.00 ppb .000

*** Check Standard: 1 Ck1ICB Seq: 2 14:20:25 25 Aug 17 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg -.030 .200 ppb .000

*** Check Standard: 4 Ck4ICVL Seq: 3 14:22:02 25 Aug 17 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 91.3 .183 .200 ppb .000

*** Check Standard: 3 Ck3CCV Seq: 4 14:23:58 25 Aug 17 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 98.2 1.96 2.00 ppb .000

*** Check Standard: 1 Ck1CCB Seq: 5 14:25:35 25 Aug 17 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg -.027 .200 ppb .000

*** Sample ID: Seq: 6 14:27:11 25 Aug 17 HG
MB 480-373942/1-A
Hg -.025 ppb .000 -.025

*** Sample ID: Seq: 7 14:29:07 25 Aug 17 HG
LCS 480-373942/2-A
Hg 3.73 ppb .000 3.73

*** Sample ID: Seq: 8 14:30:43 25 Aug 17 HG
480-121992-C-4-F
Hg .076 ppb .000 .076

*** Sample ID: Seq: 9 14:32:20 25 Aug 17 HG
480-123157-E-1-B
Hg -.022 ppb .000 -.022

*** Sample ID: Seq: 10 14:33:55 25 Aug 17 HG
480-123157-E-2-B
Hg -.029 ppb .000 -.029

*** Sample ID: Seq: 11 14:36:22 25 Aug 17 HG
480-123157-E-3-B
Hg -.025 ppb .000 -.025

*** Sample ID: Seq: 12 14:37:59 25 Aug 17 HG
480-123157-E-4-B
Hg -.026 ppb .000 -.026

*** Sample ID: Seq: 13 14:39:38 25 Aug 17 HG
480-123157-E-5-B
Hg -.021 ppb .000 -.021

*** Sample ID: Seq: 14 14:41:18 25 Aug 17 HG
480-123157-E-6-B
Hg -.024 ppb .000 -.024

*** Sample ID: Seq: 15 14:43:36 25 Aug 17 HG
480-123157-E-7-B
Hg -.021 ppb .000 -.021

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 14:46:03 25 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.5	1.99	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 14:47:51 25 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.026	.200	ppb	.000

*** Sample ID: Seq: 18 14:49:28 25 Aug 17 HG
480-123157-E-8-B

Hg	-.035	ppb	.000	-.035	

*** Sample ID: Seq: 19 14:51:07 25 Aug 17 HG
480-123161-A-1-B

Hg	-.028	ppb	.000	-.028	

*** Sample ID: Seq: 20 14:53:03 25 Aug 17 HG
480-123161-A-2-B

Hg	-.015	ppb	.000	-.015	

*** Sample ID: Seq: 21 14:54:39 25 Aug 17 HG
480-123215-G-1-A

Hg	-.026	ppb	.000	-.026	

*** Sample ID: Seq: 22 14:56:14 25 Aug 17 HG
480-123215-G-2-A

Hg	-.031	ppb	.000	-.031	

*** Sample ID: Seq: 23 14:58:14 25 Aug 17 HG
480-123215-G-3-A

Hg	-.025	ppb	.000	-.025	

*** Sample ID: Seq: 24 14:59:49 25 Aug 17 HG
480-123214-C-1-A

Hg	-.024	ppb	.000	-.024	

*** Sample ID: Seq: 25 15:02:29 25 Aug 17 HG
480-123214-C-1-Asd@5

Hg	-.026	ppb	.000	-.026	

*** Sample ID: Seq: 26 15:04:10 25 Aug 17 HG
480-123214-C-1-B MS

Hg	3.77	ppb	.000	3.77	

*** Sample ID: Seq: 27 15:05:50 25 Aug 17 HG
480-123214-C-1-C MSD

Hg	3.82	ppb	.000	3.82	

*** Check Standard: 3 Ck3CCV Seq: 28 15:07:40 25 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.1	1.98	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 15:09:20 25 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.026	.200	ppb	.000

*** Sample ID: Seq: 30 15:11:00 25 Aug 17 HG
480-123214-C-2-A

Hg	-.026	ppb	.000	-.026	

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 15:12:37 25 Aug 17 HG
480-123214-C-3-A
Hg -.027 ppb .000 -.027

*** Sample ID: Seq: 32 15:14:23 25 Aug 17 HG
480-123214-C-4-A
Hg -.019 ppb .000 -.019

*** Sample ID: Seq: 33 15:16:04 25 Aug 17 HG
480-123214-C-5-A
Hg -.030 ppb .000 -.030

*** Sample ID: Seq: 34 15:17:44 25 Aug 17 HG
480-123214-C-6-A
Hg -.022 ppb .000 -.022

*** Sample ID: Seq: 35 15:19:32 25 Aug 17 HG
MB 480-373943/1-A
Hg -.027 ppb .000 -.027

*** Sample ID: Seq: 36 15:21:57 25 Aug 17 HG
LCS 480-373943/2-A
Hg 3.74 ppb .000 3.74

*** Sample ID: Seq: 37 15:23:38 25 Aug 17 HG
480-122150-N-1-F
Hg .096 ppb .000 .096

*** Sample ID: Seq: 38 15:25:25 25 Aug 17 HG
480-123186-D-1-B
Hg -.007 ppb .000 -.007

*** Sample ID: Seq: 39 15:27:02 25 Aug 17 HG
190-14267-D-2-G
Hg -.026 ppb .000 -.026

*** Check Standard: 3 Ck3CCV Seq: 40 15:28:48 25 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.9	2.00	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 41 15:31:08 25 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.026	.200	ppb	.000

*** Sample ID: Seq: 42 15:33:24 25 Aug 17 HG
190-14267-D-2-Gsd@5
Hg -.023 ppb .000 -.023

*** Sample ID: Seq: 43 15:35:31 25 Aug 17 HG
190-14267-D-2-E MS
Hg 3.62 ppb .000 3.62

*** Sample ID: Seq: 44 15:37:18 25 Aug 17 HG
190-14267-D-2-F MSD
Hg 3.71 ppb .000 3.71

*** Sample ID: Seq: 45 15:38:55 25 Aug 17 HG
MB 480-373947/1-A
Hg -.040 ppb .000 -.040

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID:				Seq: 46	15:40:40 25 Aug 17	HG		
				LCS 480-373947/2-A				
Hg	3.77	ppb	.000	3.77				
*** Sample ID:				Seq: 47	15:42:46 25 Aug 17	HG		
				480-123161-B-1-C				
Hg	-.030	ppb	.000	-.030				
*** Sample ID:				Seq: 48	15:45:34 25 Aug 17	HG		
				480-123161-B-1-Csd@5				
Hg	-.027	ppb	.000	-.027				
*** Sample ID:				Seq: 49	15:48:14 25 Aug 17	HG		
				480-123161-B-1-D MS				
Hg	3.75	ppb	.000	3.75				
*** Sample ID:				Seq: 50	15:50:20 25 Aug 17	HG		
				480-123161-B-1-E MSD				
Hg	3.72	ppb	.000	3.72				
*** Sample ID:				Seq: 51	15:51:58 25 Aug 17	HG		
				480-123161-B-2-C				
Hg	-.039	ppb	.000	-.039				

*** Check Standard: 3 Ck3CCV Seq: 52 15:53:34 25 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.8	1.98	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 53 15:55:13 25 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.026	.200	ppb	.000

*** Sample ID:				Seq: 54	15:56:49 25 Aug 17	HG		
				480-123163-D-1-E				
Hg	-.031	ppb	.000	-.031				
*** Sample ID:				Seq: 55	15:58:47 25 Aug 17	HG		
				480-123163-D-2-E				
Hg	-.030	ppb	.000	-.030				
*** Sample ID:				Seq: 56	16:00:46 25 Aug 17	HG		
				480-123163-D-3-C				
Hg	-.026	ppb	.000	-.026				
*** Sample ID:				Seq: 57	16:02:23 25 Aug 17	HG		
				480-123163-D-4-C				
Hg	-.029	ppb	.000	-.029				
*** Sample ID:				Seq: 58	16:04:49 25 Aug 17	HG		
				480-123163-D-5-C				
Hg	-.028	ppb	.000	-.028				
*** Sample ID:				Seq: 59	16:06:26 25 Aug 17	HG		
				480-123163-D-6-C				
Hg	-.032	ppb	.000	-.032				
*** Sample ID:				Seq: 60	16:08:24 25 Aug 17	HG		
				480-123163-D-7-C				
Hg	-.029	ppb	.000	-.029				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 61 16:10:05 25 Aug 17 HG
480-123163-D-8-C

Hg	-.029	ppb	.000	-.029				

*** Sample ID: Seq: 62 16:12:16 25 Aug 17 HG
190-14267-D-1-B

Hg	-.030	ppb	.000	-.030				

*** Sample ID: Seq: 63 16:14:13 25 Aug 17 HG
190-14267-C-2-B

Hg	-.027	ppb	.000	-.027				

*** Check Standard: 3 Ck3CCV Seq: 64 16:16:44 25 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.6	1.99	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 65 16:18:31 25 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.025	.200	ppb	.000

*** Sample ID: Seq: 66 16:20:11 25 Aug 17 HG
190-14267-C-3-B

Hg	-.034	ppb	.000	-.034				

*** Check Standard: 3 Ck3CCV Seq: 67 16:21:58 25 Aug 17 HG

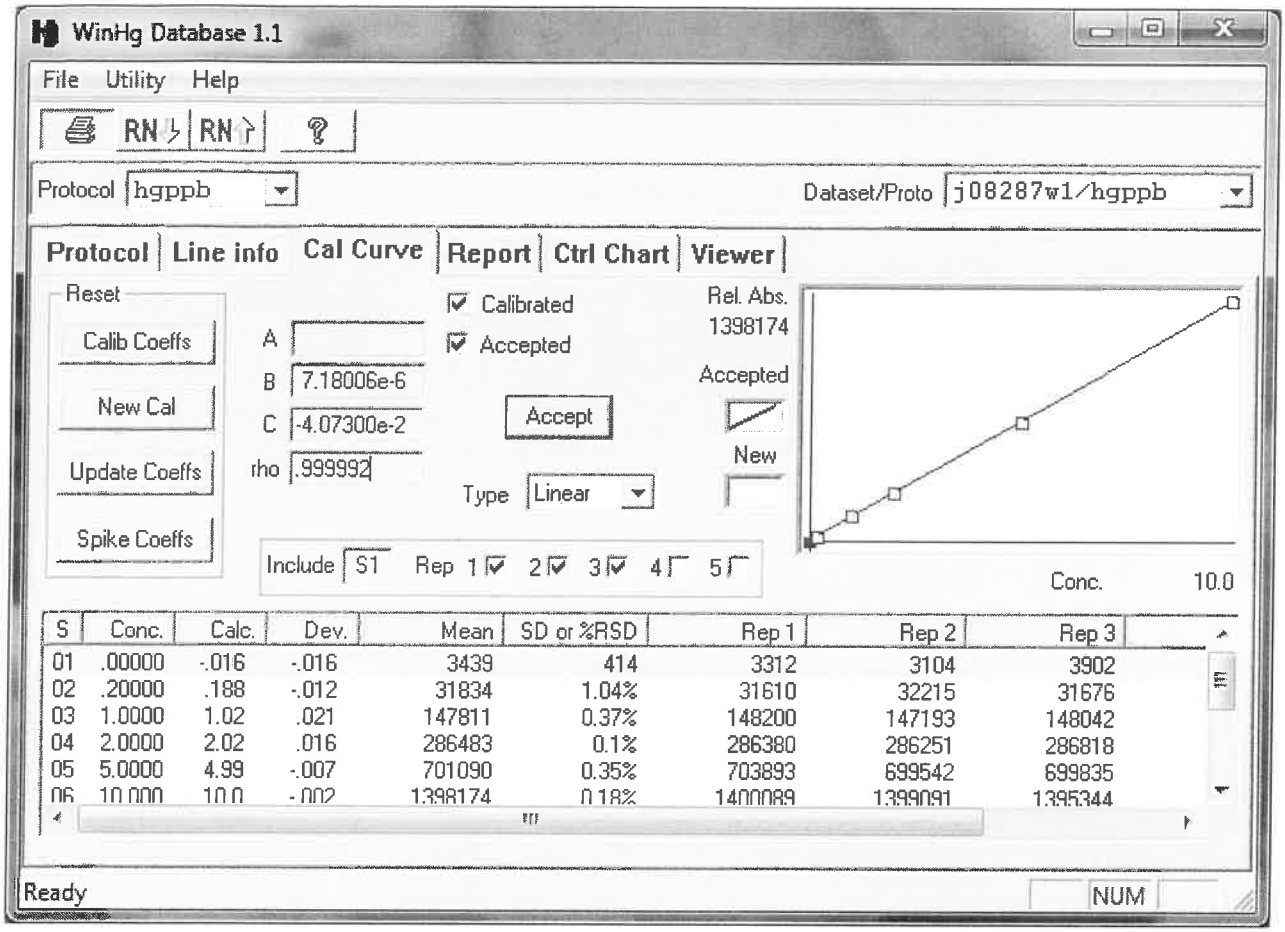
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.6	1.99	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 68 16:24:27 25 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.027	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 69 16:26:04 25 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.1	.190	.200	ppb	.000



L3

8/28/17

4211529

Cal: J08287c1

Run: J08287w1

Batches: 374198
374199
374202
374203

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

4211528

*** Check Standard: 2 Ck2ICV Seq: 1 13:38:35 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.0	2.91	3.00	ppb	.000

*** Check Standard: 1 Ck1CCB BG 8-28-17 Seq: 2 13:40:11 28 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.029	.200	ppb	.000

*** Check Standard: 4 Ck4ICVL BG 8-28-17 Seq: 3 13:42:22 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		90.8	.182	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 4 13:43:58 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.3	1.93	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 5 13:46:14 28 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.019	.200	ppb	.000

*** Sample ID: Seq: 6 13:47:48 28 Aug 17 HG
MB 480-374198/1-A

Hg	-.018	ppb	.000	-.018

*** Sample ID: Seq: 7 13:49:45 28 Aug 17 HG
LCS 480-374198/2-A

Hg	3.69	ppb	.000	3.69

*** Sample ID: Seq: 8 13:51:20 28 Aug 17 HG
190-14287-C-2-B

Hg	-.030	ppb	.000	-.030

*** Sample ID: Seq: 9 13:52:56 28 Aug 17 HG
190-14287-C-3-B

Hg	-.017	ppb	.000	-.017

*** Sample ID: Seq: 10 13:54:46 28 Aug 17 HG
480-123052-E-1-B

Hg	.004	ppb	.000	.004

*** Sample ID: Seq: 11 13:57:23 28 Aug 17 HG
480-123189-A-5-A

Hg	-.020	ppb	.000	-.020

*** Sample ID: Seq: 12 13:58:59 28 Aug 17 HG
480-123256-G-4-B

Hg	-.018	ppb	.000	-.018

Reran at 1:5 *** Sample ID: Seq: 13 14:00:48 28 Aug 17 HG
480-123269-A-1-A

Hg	11.8 H	ppb	.000	11.8

Reran at 1:5 *** Sample ID: Seq: 14 14:02:40 28 Aug 17 HG
480-123269-A-2-A

Hg	15.2 H	ppb	.000	15.2

*** Sample ID: Seq: 15 14:04:28 28 Aug 17 HG
480-123269-A-3-A

Hg	4.37	ppb	.000	4.37

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 14:07:48 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.4	1.95	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 14:09:29 28 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.025	.200	ppb	.000

*** Sample ID: 480-123269-A-4-A Seq: 18 14:11:15 28 Aug 17 HG

Hg	.014	ppb	.000	.014

*** Sample ID: 480-123269-A-5-A Seq: 19 14:12:51 28 Aug 17 HG

Hg	-.001	ppb	.000	-.001

*** Sample ID: 480-123269-A-6-A Seq: 20 14:14:47 28 Aug 17 HG

Hg	-.006	ppb	.000	-.006

*** Sample ID: 480-123269-A-7-A Seq: 21 14:16:43 28 Aug 17 HG

Hg	-.007	ppb	.000	-.007

*** Sample ID: 480-123269-A-8-A Seq: 22 14:18:18 28 Aug 17 HG

Hg	-.015	ppb	.000	-.015

*** Sample ID: 480-123241-E-1-B Seq: 23 14:20:06 28 Aug 17 HG

Hg	-.011	ppb	.000	-.011

*** Sample ID: 480-123241-E-1-Bsd@5 Seq: 24 14:21:58 28 Aug 17 HG

Hg	-.013	ppb	.000	-.013

*** Sample ID: 480-123241-E-1-C MS Seq: 25 14:23:49 28 Aug 17 HG

Hg	3.72	ppb	.000	3.72

*** Sample ID: 480-123241-E-1-D MSD Seq: 26 14:25:27 28 Aug 17 HG

Hg	3.69	ppb	.000	3.69

*** Sample ID: 480-123241-E-2-B Seq: 27 14:27:45 28 Aug 17 HG

Hg	.039	ppb	.000	.039

*** Check Standard: 3 Ck3CCV Seq: 28 14:29:21 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.4	1.95	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 14:30:58 28 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.025	.200	ppb	.000

*** Sample ID: 480-123243-E-1-B Seq: 30 14:33:18 28 Aug 17 HG

Hg	-.011	ppb	.000	-.011

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 31 14:34:55 28 Aug 17 HG
480-123246-E-1-B
Hg -.017 ppb .000 -.017

*** Sample ID: Seq: 32 14:36:32 28 Aug 17 HG
480-123236-A-1-B
Hg -.016 ppb .000 -.016

*** Sample ID: Seq: 33 14:38:09 28 Aug 17 HG
MB 480-374199/1-A
Hg -.021 ppb .000 -.021

*** Sample ID: Seq: 34 14:39:47 28 Aug 17 HG
LCS 480-374199/2-A
Hg 3.69 ppb .000 3.69

*** Sample ID: Seq: 35 14:41:35 28 Aug 17 HG
190-14276-D-1-B
Hg -.024 ppb .000 -.024

*** Sample ID: Seq: 36 14:43:15 28 Aug 17 HG
190-14276-D-2-B
Hg -.013 ppb .000 -.013

*** Sample ID: Seq: 37 14:44:55 28 Aug 17 HG
190-14276-D-3-B
Hg -.013 ppb .000 -.013

*** Sample ID: Seq: 38 14:46:32 28 Aug 17 HG
190-14276-D-5-B
Hg -.021 ppb .000 -.021

*** Sample ID: Seq: 39 14:48:22 28 Aug 17 HG
190-14276-D-6-B
Hg -.020 ppb .000 -.020

*** Check Standard: 3 Ck3CCV Seq: 40 14:50:29 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.0	1.96	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 41 14:52:18 28 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.020	.200	ppb	.000

*** Sample ID: Seq: 42 14:53:57 28 Aug 17 HG
190-14287-C-1-B
Hg -.017 ppb .000 -.017

*** Sample ID: Seq: 43 14:56:26 28 Aug 17 HG
190-14287-P-3-B
Hg -.012 ppb .000 -.012

*** Sample ID: Seq: 44 14:58:32 28 Aug 17 HG
190-14295-D-1-B
Hg -.008 ppb .000 -.008

*** Sample ID: Seq: 45 15:00:13 28 Aug 17 HG
190-14295-D-2-B
Hg -.014 ppb .000 -.014

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 46 15:02:10 28 Aug 17 HG
190-14295-D-3-B
Hg -.018 ppb .000 -.018

*** Sample ID: Seq: 47 15:04:06 28 Aug 17 HG
480-123224-D-1-A
Hg -.016 ppb .000 -.016

*** Sample ID: Seq: 48 15:06:52 28 Aug 17 HG
480-123224-D-2-A
Hg -.016 ppb .000 -.016

*** Sample ID: Seq: 49 15:08:31 28 Aug 17 HG
480-123232-D-1-A
Hg -.017 ppb .000 -.017

*** Sample ID: Seq: 50 15:10:12 28 Aug 17 HG
480-123232-D-1-Asd@5
Hg -.014 ppb .000 -.014

*** Sample ID: Seq: 51 15:12:22 28 Aug 17 HG
480-123232-D-1-B MS
Hg 3.74 ppb .000 3.74

*** Check Standard: 3 Ck3CCV Seq: 52 15:14:24 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.1	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 53 15:17:01 28 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.016	.200	ppb	.000

*** Sample ID: Seq: 54 15:20:01 28 Aug 17 HG
480-123232-D-1-C MSD
Hg 3.76 ppb .000 3.76

*** Sample ID: Seq: 55 15:22:59 28 Aug 17 HG
480-123232-D-2-A
Hg -.019 ppb .000 -.019

*** Sample ID: Seq: 56 15:24:40 28 Aug 17 HG
480-123232-D-3-A
Hg -.020 ppb .000 -.020

*** Sample ID: Seq: 57 15:26:27 28 Aug 17 HG
480-123232-D-4-A
Hg -.013 ppb .000 -.013

*** Sample ID: Seq: 58 15:28:28 28 Aug 17 HG
480-123232-D-5-A
Hg -.017 ppb .000 -.017

*** Sample ID: Seq: 59 15:30:26 28 Aug 17 HG
480-123232-D-6-A
Hg -.017 ppb .000 -.017

*** Sample ID: Seq: 60 15:32:03 28 Aug 17 HG
480-123232-D-7-A
Hg -.019 ppb .000 -.019

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 61 15:34:00 28 Aug 17 HG
480-123232-D-8-A
Hg -.015 ppb .000 -.015

*** Sample ID: Seq: 62 15:35:36 28 Aug 17 HG
MB 480-374202/1-A
Hg -.022 ppb .000 -.022

*** Sample ID: Seq: 63 15:37:13 28 Aug 17 HG
LCS 480-374202/2-A
Hg 3.72 ppb .000 3.72

*** Check Standard: 3 Ck3CCV Seq: 64 15:39:10 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.0	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 65 15:40:45 28 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.025	.200	ppb	.000

*** Sample ID: Seq: 66 15:43:01 28 Aug 17 HG
480-123273-C-1-A
Hg -.017 ppb .000 -.017

*** Sample ID: Seq: 67 15:44:38 28 Aug 17 HG
480-123275-C-1-A
Hg -.014 ppb .000 -.014

*** Sample ID: Seq: 68 15:46:15 28 Aug 17 HG
480-123275-C-1-Asd@5
Hg -.017 ppb .000 -.017

*** Sample ID: Seq: 69 15:48:13 28 Aug 17 HG
480-123275-C-1-B MS
Hg 3.74 ppb .000 3.74

*** Sample ID: Seq: 70 15:49:49 28 Aug 17 HG
480-123275-C-1-C MSD
Hg 3.76 ppb .000 3.76

*** Sample ID: Seq: 71 15:51:27 28 Aug 17 HG
480-123275-C-2-A
Hg -.026 ppb .000 -.026

*** Sample ID: Seq: 72 15:53:38 28 Aug 17 HG
MB 480-373973/1-E
Hg -.020 ppb .000 -.020

*** Sample ID: Seq: 73 15:55:15 28 Aug 17 HG
LCS 480-373973/2-E
Hg 3.67 ppb .000 3.67

*** Sample ID: Seq: 74 15:57:31 28 Aug 17 HG
480-123215-L-1-C
Hg -.020 ppb .000 -.020

*** Sample ID: Seq: 75 15:59:12 28 Aug 17 HG
480-123215-K-2-C
Hg -.020 ppb .000 -.020

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 3 Ck3CCV Seq: 76 16:00:49 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.0	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 77 16:02:26 28 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.022	.200	ppb	.000

*** Sample ID: Seq: 78 16:04:08 28 Aug 17 HG

480-123215-K-2-Csd@5

Hg	-.016	ppb	.000	-.016

*** Sample ID: Seq: 79 16:05:49 28 Aug 17 HG

480-123215-K-2-D MS

Hg	3.67	ppb	.000	3.67

*** Sample ID: Seq: 80 16:07:27 28 Aug 17 HG

480-123215-K-2-E MSD

Hg	3.68	ppb	.000	3.68

*** Sample ID: Seq: 81 16:09:28 28 Aug 17 HG

480-123215-L-3-C

Hg	-.024	ppb	.000	-.024

*** Check Standard: 3 Ck3CCV Seq: 82 16:11:39 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.9	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 83 16:13:38 28 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.021	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 84 16:15:15 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		92.6	.185	.200	ppb	.000

*** Sample ID: Seq: 85 16:20:50 28 Aug 17 HG

480-123269-A-1-A@5

Hg	2.43	ppb	.000	2.43

*** Sample ID: Seq: 86 16:22:51 28 Aug 17 HG

480-123269-A-2-A@5

Hg	3.37	ppb	.000	3.37

*** Check Standard: 3 Ck3CCV Seq: 87 16:24:48 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.9	1.94	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 88 16:26:25 28 Aug 17 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.026	.200	ppb	.000

*** Check Standard: 4 Ck4CCVL Seq: 89 16:28:21 28 Aug 17 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		93.0	.186	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 373973 Batch Start Date: 08/25/17 11:17 Batch Analyst: Bauer, Elizabeth M

Batch Method: FILTRATION Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 480-373973/1		FILTRATION, 3005A, 6010C		Preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2					
LCS 480-373973/2		FILTRATION, 3005A, 6010C		Preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2					
480-123215-L-1	NS-LDP-001-GW	FILTRATION, 3005A, 6010C	D	Preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2					
480-123215-K-2	NS-LDP-002-GW	FILTRATION, 3005A, 6010C	D	Preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2					
480-123215-L-3	NS-LDP-003-GW	FILTRATION, 3005A, 6010C	D	Preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2					

Batch Notes	
Batch Comment	preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 373992 Batch Start Date: 08/28/17 07:46 Batch Analyst: Bauer, Elizabeth M

Batch Method: 3005A Batch End Date: 08/28/17 11:28

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00101	MED_01_W1 00045	MED_02_W2 00041	MED_03_Ag 00114
MB 480-373992/1		3005A, 6010C		50 mL	50 mL				
LCS 480-373992/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-123215-G-1	NS-LDP-001-GW	3005A, 6010C	R	50 mL	50 mL				
480-123215-G-2	NS-LDP-002-GW	3005A, 6010C	R	50 mL	50 mL				
480-123215-G-3	NS-LDP-003-GW	3005A, 6010C	R	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00102	MED_05_S 00060				
MB 480-373992/1		3005A, 6010C							
LCS 480-373992/2		3005A, 6010C		0.25 mL	0.25 mL				
480-123215-G-1	NS-LDP-001-GW	3005A, 6010C	R						
480-123215-G-2	NS-LDP-002-GW	3005A, 6010C	R						
480-123215-G-3	NS-LDP-003-GW	3005A, 6010C	R						

Batch Notes	
Batch Comment	61202758 (Push Filters)
First End time	1128
Hydrochloric Acid ID	4185722
Nitric Acid ID	4191662
Hot Block ID	B
Oven, Bath or Block Temperature 1	95.5 Degrees C
Oven, Bath or Block Temperature 2	97.1 Degrees C
Pipette ID	MDL-3
First Start time	746
Thermometer ID	151913830
Digestion Tube/Cup ID	1703076
Uncorrected Temperature	95.2 Degrees C
Uncorrected Temperature 2	96.8 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 373992 Batch Start Date: 08/28/17 07:46 Batch Analyst: Bauer, Elizabeth M

Batch Method: 3005A Batch End Date: 08/28/17 11:28

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 374132 Batch Start Date: 08/28/17 07:46 Batch Analyst: Bauer, Elizabeth M

Batch Method: 3005A Batch End Date: 08/28/17 11:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00101	MED_01_W1 00045	MED_02_W2 00041	MED_03_Ag 00114
MB 480-373973/1-A		3005A, 6010C		50 mL	50 mL				
LCS 480-373973/2-A		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-123215-L-1-A	NS-LDP-001-GW	3005A, 6010C	D	50 mL	50 mL				
480-123215-K-2-A	NS-LDP-002-GW	3005A, 6010C	D	50 mL	50 mL				
480-123215-L-3-A	NS-LDP-003-GW	3005A, 6010C	D	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00102	MED_05_S 00060				
MB 480-373973/1-A		3005A, 6010C							
LCS 480-373973/2-A		3005A, 6010C		0.25 mL	0.25 mL				
480-123215-L-1-A	NS-LDP-001-GW	3005A, 6010C	D						
480-123215-K-2-A	NS-LDP-002-GW	3005A, 6010C	D						
480-123215-L-3-A	NS-LDP-003-GW	3005A, 6010C	D						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 374132 Batch Start Date: 08/28/17 07:46 Batch Analyst: Bauer, Elizabeth M

Batch Method: 3005A Batch End Date: 08/28/17 11:25

Batch Notes	
Batch Comment	61202758 (Push Filters)
First End time	1125
Lot # of hydrochloric acid	4185722
Lot # of Nitric Acid	4191661
Hot Block ID	C
Oven, Bath or Block Temperature 1	97.2
Oven, Bath or Block Temperature 2	97.7
pH Paper ID	HC698814
First Start time	746
Thermometer ID	151913830
Digestion Tube/Cup ID	1703076
Uncorrected Temperature	96.9 Celsius
Uncorrected Temperature 2	97.4 Celsius

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 373942 Batch Start Date: 08/25/17 11:15 Batch Analyst: Zarbo, Michael V

Batch Method: 7470A Batch End Date: 08/25/17 13:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 01561	AnalysisComment		
MB 480-373942/1		7470A, 7470A		30 mL	50 mL		KMnO4 x2		
LCS 480-373942/2		7470A, 7470A		30 mL	50 mL	2 mL	KMnO4 x2		
480-123215-G-1	NS-LDP-001-GW	7470A, 7470A	T	30 mL	50 mL				
480-123215-G-2	NS-LDP-002-GW	7470A, 7470A	T	30 mL	50 mL				
480-123215-G-3	NS-LDP-003-GW	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride ID	4183577
Batch Comment	cal: 373993
Digestion End Time	1315
Digestion Start Time	1115
Lot # of hydrochloric acid	4086368
Lot # of Nitric Acid	4149312
Hot Block ID	Hg-B
Potassium Persulfate ID	4057585
Potassium Permanganate ID	4187799
Oven, Bath or Block Temperature 1	97.3 Celsius
Stannous Chloride ID	4195825
Thermometer ID	160510054
Digestion Tube/Cup ID	1703076
Uncorrected Temperature	96.9 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 373973 Batch Start Date: 08/25/17 11:17 Batch Analyst: Bauer, Elizabeth M

Batch Method: FILTRATION Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 480-373973/1		FILTRATION, 7470A, 7470A		Preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2					
LCS 480-373973/2		FILTRATION, 7470A, 7470A		Preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2					
480-123215-L-1	NS-LDP-001-GW	FILTRATION, 7470A, 7470A	D	Preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2					
480-123215-K-2	NS-LDP-002-GW	FILTRATION, 7470A, 7470A	D	Preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2					
480-123215-L-3	NS-LDP-003-GW	FILTRATION, 7470A, 7470A	D	Preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2					

Batch Notes	
Batch Comment	preserved on 8/25/17 @1150 2nd Checked on 8/28/17 @630 pH< 2

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-123215-1

SDG No.:

Batch Number: 374203 Batch Start Date: 08/28/17 10:45 Batch Analyst: Zarbo, Michael V

Batch Method: 7470A Batch End Date: 08/28/17 12:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 01562			
MB 480-373973/1-A		7470A, 7470A		30 mL	50 mL				
LCS 480-373973/2-A		7470A, 7470A		30 mL	50 mL	2 mL			
480-123215-L-1-A	NS-LDP-001-GW	7470A, 7470A	D	30 mL	50 mL				
480-123215-K-2-A	NS-LDP-002-GW	7470A, 7470A	D	30 mL	50 mL				
480-123215-K-2-A MS	NS-LDP-002-GW	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-123215-K-2-A MSD	NS-LDP-002-GW	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-123215-L-3-A	NS-LDP-003-GW	7470A, 7470A	D	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride ID	4183577
Batch Comment	cal: 374238
Digestion End Time	1245
Digestion Start Time	1045
Lot # of hydrochloric acid	4086368
Lot # of Nitric Acid	4149312
Hot Block ID	Hg-B
Potassium Persulfate ID	4057585
Potassium Permanganate ID	4187799
Oven, Bath or Block Temperature 1	96.9 Celsius
Stannous Chloride ID	4195825
Thermometer ID	160510054
Digestion Tube/Cup ID	1703076
Uncorrected Temperature	96.5 Celsius

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record 245107

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Glenn May	Site Contact:	Date: 8/24/17	COC No:
Company Name: NYSDEC	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 270 Michigan Ave	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo NY 14203	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below 3 day			Walk-in Client:
Fax: glenn.may@dec.ny.gov	☐ 2 weeks			Lab Sampling:
Project Name: Niagara Sanitation	☐ 1 week			
Site: Nash Road - Wheatfield	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

480-123215 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8082A - PCB	8081B - Pesticides	8270D - SVOA	6010A, 7470A - Filtered metals	8260C - VOC	Sample Specific Notes:
NS-LDP-001-GW	8/24		G	H_2O	12			2	2	2	1	1	3	
			G											
NS-LDP-002-GW	8/24		G	H_2O	12			2	2	2	1	1	3	
NS-LDP-003-GW	8/24		G	H_2O	12			2	2	2	1	1	3	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
extra filtered metal volume if needed

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Andrew Kaart	LiRo	8/24/17		TAB	8-24-17 1702
Relinquished by:	Company:	Date/Time: 1702	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

08/31/2017

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-123215-1

Login Number: 123215 **List Source: TestAmerica Buffalo**
List Number: 1
Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	LIRO
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	